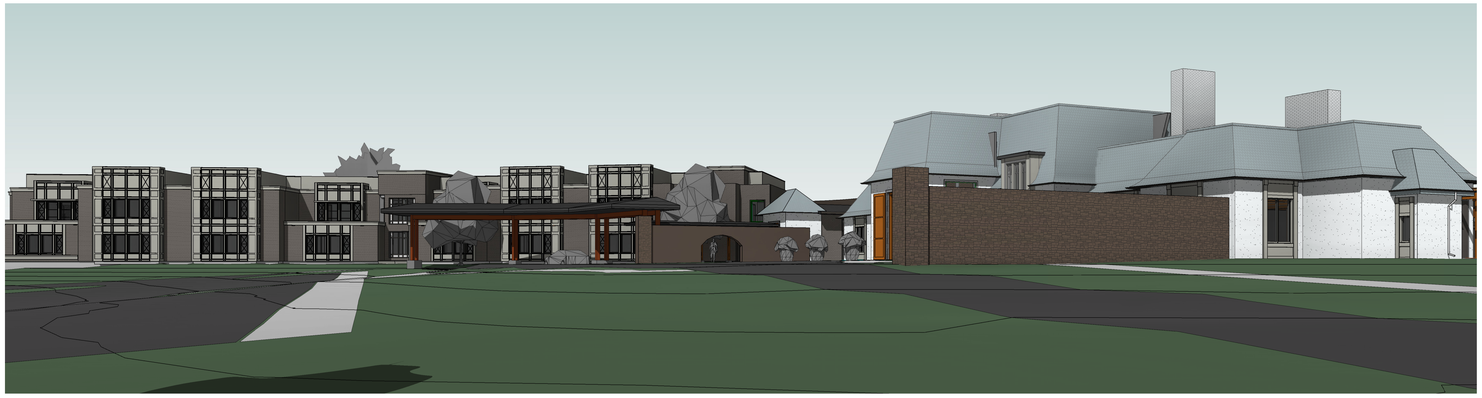

Hotel Hartness

GMP Package - 2/28/2020

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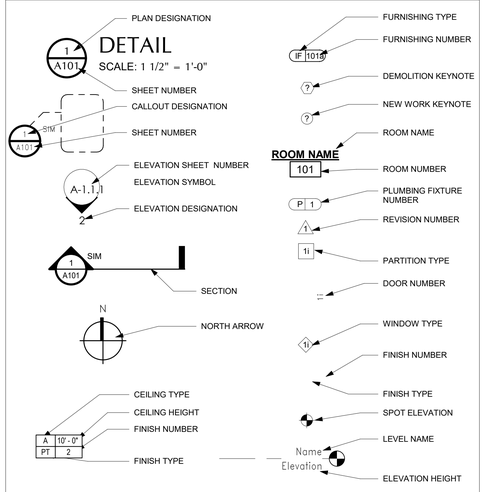
ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
AL	ALUMINUM
AWB	AIR & WATER BARRIER
C	CARPET
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CT	CERAMIC TILE
CW	CURTAIN WALL
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EL	ELEVATION
ELEV	ELEVATOR
EXT	EXTERIOR
EXIST	EXISTING
FCC	FIRE COMMAND CENTER
FEC	FIRE EXTINGUISHER CABINET
FRP	FIBERGLASS REINFORCED PLASTIC
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
HR	HOUR
INT	INTERIOR
LP	LAMINATED PLASTIC
MFR	MANUFACTURER
MP	METAL PANEL
MT	METAL
NIC or N.I.C	NOT IN CONTRACT
OFCI	OWNER FURNISHED AND CONTRACTOR INSTALLED
OSE	OWNER SUPPLIED EQUIPMENT
P	PLUMBING FIXTURE
PC	PRECAST CONCRETE
PL	PLASTER
PR	PAIR
PT	PAINT
QT	QUARRY TILE
RF	RESILIENT FLOORING
SC	SEALED CONCRETE
SCWD	SOLID CORE WOOD DOOR
SS	STAINLESS STEEL
ST	STONE
STND	STAINED FINISH
TA	TOILET ACCESSORY
VCT	VINYL COMPOSITION TILE
WC	WALL COVERING
WD	WOOD

SYMBOLS LEGEND



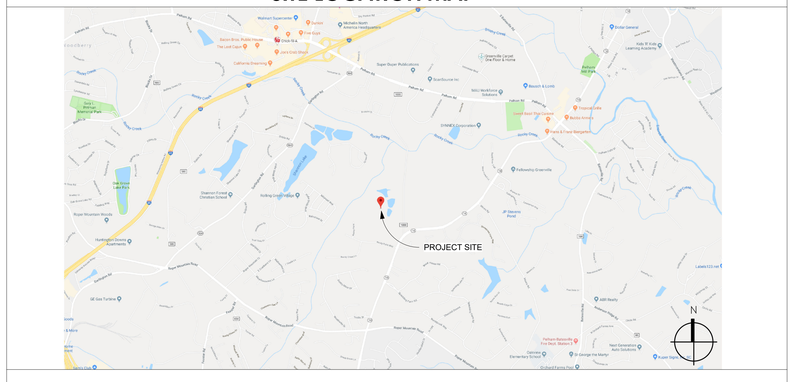
MATERIALS LEGEND

- GYPSUM WALLBOARD
- CONTINUOUS WOOD BLOCKING
- NONCONTINUOUS WOOD BLOCKING
- METAL
- CONCRETE
- TILE OR MASONRY
- MARBLE OR GRANITE
- GLASS
- PLYWOOD
- FINISHED WOOD TRIM
- CARPET
- QUARRY TILE

CODES

- 2018 SOUTH CAROLINA BUILDING CODE (2018 IBC W/ AMENDMENTS)
- 2018 SOUTH CAROLINA MECHANICAL CODE (2018 IMC W/ AMENDMENTS)
- 2018 SOUTH CAROLINA PLUMBING CODE (2018 IPC W/ AMENDMENTS)
- 2018 INTERNATIONAL FUEL GAS CODE (2018 IFGC W/ AMENDMENTS)
- 2018 SOUTH CAROLINA FIRE CODE (2018 IFC W/ AMENDMENTS)
- 2015 INTERNATIONAL SWIMMING POOL AND SPA CODE
- 2009 SOUTH CAROLINA ENERGY CONSERVATION CODE (2009 IECC)
- 2014 NEC (NFPA 70)
- ICC/ANSI A117.1

SITE LOCATION MAP



GENERAL NOTES

1. "N.I.C." INDICATES WORK AND/OR MATERIALS, ASSEMBLIES AND PRODUCTS "NOT IN CONTRACT." "N.I.C." WORK AND/OR MATERIALS, ASSEMBLIES AND PRODUCTS WILL BE PROVIDED BY THE OWNER AND/OR THE OWNER'S SEPARATE CONTRACTOR. THE CONTRACTOR HAS SPECIFIC RESPONSIBILITIES RELATED TO N.I.C. WORK WHICH ARE OUTLINED IN THE GENERAL NOTES AND IN THE CONTRACT DOCUMENTS. N.I.C. WORK SHALL BE COORDINATED BY THE CONTRACTOR TO THE EXTENT THAT IT AFFECTS HIS WORK.
2. UNLESS SPECIFICALLY NOTED AS N.I.C., OR AS "BY FF&E", ALL WORK INDICATED WITHIN THE CONTRACT DOCUMENTS WILL BE INCLUDED IN THE CONTRACT SUM.
3. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, STRUCTURAL STEEL SUPPORT, HANGERS, AND OTHER SUPPORT FOR ALL FIXTURES, EQUIPMENT, CABINETRY, MILLWORK, STONE, HANDRAILS, FURNISHINGS, AND DECORATIVE LIGHTING AND ALL OTHER ITEMS REQUIRING SAME. THIS INCLUDES BLOCKING FOR MILLWORK, CABINETRY, AND HANDRAILS N.I.C.
4. ALL WORK AND/OR MATERIALS, ASSEMBLIES, PRODUCTS AND FINISHES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. DIMENSIONAL LAYOUT SHALL BE VERIFIED IN THE FIELD PRIOR TO PROCEEDING WITH THE WORK, TO IDENTIFY CONFLICTS WITH EXISTING CONSTRUCTION AND DIMENSIONAL ERRORS AND/OR CONFLICTS. THE ARCHITECT/DESIGNER SHALL BE NOTIFIED OF ANY DIMENSIONS REQUIRING CORRECTION. DIMENSIONS ARE TO FACE OF WALL FINISH UNLESS OTHERWISE NOTED.
6. SPECIFIC PAINT COLORS HAVE BEEN SELECTED FROM SPECIFIC MANUFACTURER(S). IF THE CONTRACTOR ELECTS TO USE A MANUFACTURER OTHER THAN THE MANUFACTURER FROM WHICH THE ARCHITECT'S SELECTION WAS MADE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE COLOR MATCHES FROM THE OTHER MANUFACTURER(S). THE ARCHITECT WILL NOT RESELECT COLORS TO FIT WITHIN OTHER MANUFACTURER'S COLOR SYSTEMS.
7. ALL INTERIOR FINISH MATERIALS SHALL BE MINIMUM CLASS A INTERIOR FINSH WITH FLAMESPREAD 0-25 AND SMOKE DEVELOPED 0-450.
8. THESE DRAWINGS MAY NOT REPRESENT ALL EXISTING SITE CONDITIONS. GENERAL CONTRACTOR IS REPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS IN CONJUCTION WITH THE WORK AS DEFINED HEREIN AND IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
9. CONTRACTOR IS TO TAKE ALL NECESSARY MEASURES TO ENSURE THAT ANY ADJACENT FINISHED OR OCCUPIED SPACE IS PROTECTED FROM SOILING OR DAMAGE DURING CONSTRUCTION. NOISE LEVEL IS TO BE KEPT TO A MINIMUM.
10. OWNER IS TO BE NOTIFIED 24 HOURS PRIOR TO ANY INTERRUPTION OF UTILITY
11. SERVICES, INCLUDING, BUT NOT LIMITED TO, WATER AND ELECTRICITY.
12. ALL MULTIPLE SWITCHES ARE TO GANGED WITH A COMMON FACEPLATE (IF POSSIBLE) OR ARE TO BE INSTALLED WITH FACEPLATES ADJACENT.
13. WORK SHALL BE PERFORMED PER THE REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES AND LOCAL CODES.
14. *703.7* MARKING AND IDENTIFICATION. *FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS* AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
    - A. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR *ATTIC* SPACES;
    - B. BE LOCATED WITHIN 15 FEET (4572 NUN) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
    - C. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8 INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING.
        - a. **"FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS"** OR OTHER REQUIRED WORDING PER THE AUTHORITY HAVING JURISDICTION
    - D. EXCEPTION: WALLS IN GROUP R-2 OCCUPANCIES THAT DO NOT HAVE A REMOVABLE DECORATIVE CEILING ALLOWING ACCESS TO THE CONCEALED SPACE.
15. ALL FINISHES AND MATERIALS NECESSARY FOR THE COMPLETION OF THE TENANT IMPROVEMENT ARE TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR.
16. **MATERIAL SUPPLIED AND INSTALLED BY THE OWNER AND/OR HIS SEPARATE CONTRACTOR(S)**
    - A. THE FOLLOWING LIST SUMMARIZES WORK AND/OR MATERIALS, ASSEMBLIES AND PRODUCTS THAT WILL BE SUPPLIED BY THE OWNER AND/OR HIS PURCHASING AGENT, AND INCLUDED IN THE FF&E BUGET. THESE ITEMS ARE TO BE INSTALLED BY THE OWNER'S SEPARATE CONTRACTOR(S).
        - a. FURNITURE
        - b. ARTWORK
        - c. EXERCISE EQUIPMENT WILL BE BY SEPERATE VENDOR
17. CONTRACTOR SHALL CONFIRM WITH OWNER INSTALLATION PROCEEDURES INCLUDING:
    - A. LIQUIDATION OF OLD FURNISHINGS
    - B. RECIEVING LOCATION
    - C. WAREHOUSING (IF NECESSARY) AND TRACKING
    - D. UNPACKING AND PLACING
    - E. DISPOSAL OF PACKING MATERIALS

CODE SUMMARY

CODE NOTES
ORIGINAL Hartness House BUILDING WAS CONSTRUCTED IN THE 1970S UNDER *THE SOUTH CAROLINA RESIDENTIAL BUILDING CODE (SCRBC).*

NEW WORK SHALL CONFORM TO *2018 SOUTH CAROLINA BUILDING CODE (SCBC) INCLUDING THE ASSOCIATED AND REFERENCED CODES AS ADOPTED BY THE CITY OF GREENVILLE.*

USE & OCCUPANCY
SEPARATED MIXED USE OCCUPANCIES
A-2; ASSEMBLY
A-3; ASSEMBLY
B; BUSINESS OFFICES
R-1; RESIDENTIAL HOTEL

CONSTRUCTION TYPE
Hartness House BUILDING: IBC EXISTING TYPE VB NON-SPRINKLERED
HOTEL: IBC TYPE IIB SPRINKLERED
CONFERENCE CENTER: IBC TYPE IIB SPRINKLERED
RESTAURANT: IBC TYPE IIB SPRINKLERED
SPA: IBC TYPE VB NON-SPRINKLERED

HEIGHT AND AREA
Hartness House BUILDING - EXISTING VB - 216 OCC

	TOTAL
FIRST	5,993 SF (A-3 OCCUPANCY)
SECOND	1,823 SF (B OCCUPANCY)
	7,816 SF

NO HEIGHT CHANGES. EXISTING BUILDING-2 STORIES
ALLOWABLE HEIGHT - 40'-0", ALLOWABLE # OF STORIES - TWO
ALLOWABLE SQUARE FEET - 6,000 SF (A-3 OCCUPANCY), 9,000 SF (B OCCUPANCY)

HOTEL - NEW IIB - 233 OCC

	TOTAL
FIRST	15,232 SF
SECOND	15,274 SF
THIRD	13,564 SF
	44,070 SF

HEIGHT-32'-8", THREE STORIES
ALLOWABLE HEIGHT - 75'-0", ALLOWABLE # OF STORIES - FIVE
ALLOWABLE SQUARE FEET - 171,840 SF

CONFERENCE CENTER - NEW IIB - 596 OCC

	TOTAL
FIRST	6,519 SF
SECOND	6,815 SF
	13,334 SF

HEIGHT-34'-4", TWO STORIES
ALLOWABLE HEIGHT - 75'-0", ALLOWABLE # OF STORIES - THREE
ALLOWABLE SQUARE FEET - 156,320 SF

RESTAURANT- NEW IIB - 208 OCC

	TOTAL
FIRST	1,127 SF
SECOND	3,799 SF
	4,926 SF

HEIGHT-18'-0", TWO STORIES
ALLOWABLE HEIGHT - 75'-0", ALLOWABLE # OF STORIES - THREE
ALLOWABLE SQUARE FEET - 60,064 SF

SPA - NEW VB - 81 OCC

	TOTAL
FIRST	6,422 SF
	6,422 SF

HEIGHT-34'-4", ONE STORY
ALLOWABLE HEIGHT - 40'-0", ALLOWABLE # OF STORIES - TWO
ALLOWABLE SQUARE FEET - 11,640 SF

TOTAL GROSS AREA:	**76,568 SF**
TOTAL OCC -	**1334 OCC**

FIRE RESISTANCE
Hartness House BUILDING: N/A
HOTEL/CONFERENCE CENTER/RESTAURANT: TYPE IIB
STRUCTURAL FRAME: 0 HR
EXTERIOR BEARING WALL: 0 HR
INTERIOR BEARING WALL: 0 HR
NON BEARING PARTITION - EXTERIOR: SEE TABLE 602
NON BEARING PARTITION - INTERIOR: 0 HR
FLOOR CONSTRUCTION: 0 HR
ROOF CONSTRUCTION: 0 HR
SPA: TYPE VB
STRUCTURAL FRAME: 0 HR
EXTERIOR BEARING WALL: 0 HR
INTERIOR BEARING WALL: 0 HR
NON BEARING PARTITION - EXTERIOR: SEE TABLE 602
NON BEARING PARTITION - INTERIOR: 0 HR
FLOOR CONSTRUCTION: 0 HR
ROOF CONSTRUCTION: 0 HR

INTERIOR FINISHES
Hartness House BUILDING: N/A
HOTEL/CONFERENCE CENTER/RESTAURANT/SPA:
WALL AND CEILING MATERIAL SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN IBC TABLE 803.13. - CLASS 'C'
FLOOR FINISH IN CORRIDOR SHALL BE MINIMUM CLASS II COMPLYING WITH *ASTM D2859* AND HAVE A SMOKE DENSITY OF LESS THAN 450.

FIRE PROTECTION SYSTEMS
Hartness House BUILDING: NON-SPRINKLERED
HOTEL/CONFERENCE CENTER/RESTAURANT: AUTOMATIC SPRINKLER SYSTEM
SPA: NON-SPRINKLERED

SCOPE OF WORK
COMPREHENSIVE RENOVATION OF EXISTING Hartness House BUILDING; CHANGE OF USE TO COMMERCIAL

NEW WORK INCLUDES: HOTEL, CONFERENCE CENTER, RESTAURANT AND SPA.

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
COVER SHEET

G-000
Sheet Number

ISSUED FOR CONSTRUCTION

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G-010	ACCESSIBILITY DETAILS		●
G-050	BUILDING SETBACKS		●
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G-101	LEVEL 1 EGRESS PLAN	●	●
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G-103	LEVEL 2 EGRESS PLAN	●	●
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Grand total: 256

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NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
DRAWING INDEX

G-001

Sheet Number

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FS-L1-3.4	FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN		●

16 - FS EQUIPMENT: 44

Grand total: 191

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
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G-002
Sheet Number

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ACCESSIBLE UNIT DISPERSION

MOBILITY ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
221	K-GR
316	QQ-GR
302	JR

COMMUNICATION ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
121	KK-GR
216	DELUXE K
225	QQ-GR
308	QQ-GR
312	DELUXE JR SUITE
315	JUNIOR SUITE

ROOM AREA LEGEND

ADA

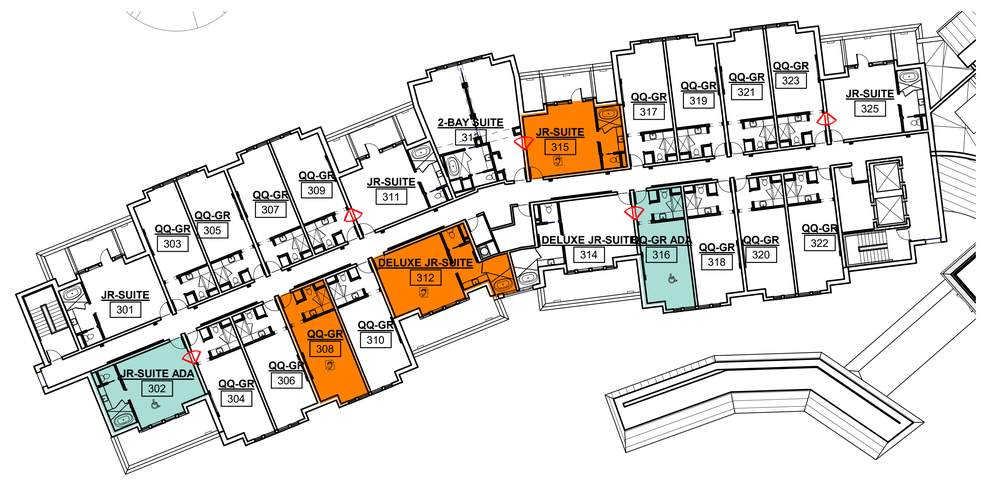
COMM ACC

1 G-005 Hotel Hartness L1 Plan

SCALE: 1/16" = 1'-0"

2 G-005 Hotel Hartness L2 Plan

SCALE: 1/16" = 1'-0"



3 G-005 Hotel Hartness L3 Plan

SCALE: 1/16" = 1'-0"

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No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
ADA PLANS

G-005

Sheet Number

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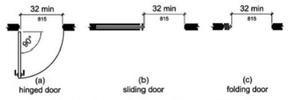

FIGURE 404.2.3 CLEAR WIDTH OF DOORWAYS

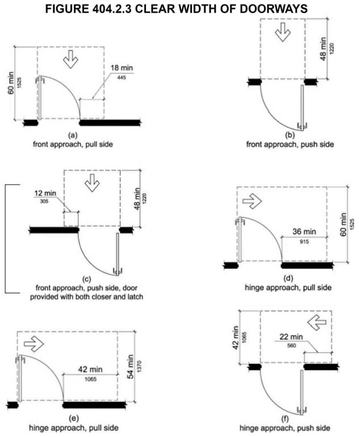

FIGURE 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

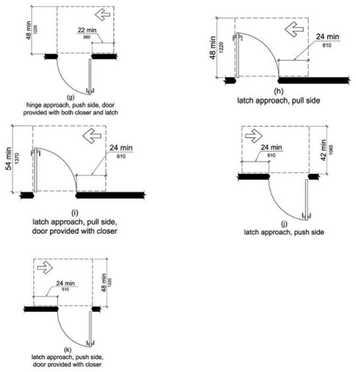

FIGURE 404.2.4.1—CONTINUED MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

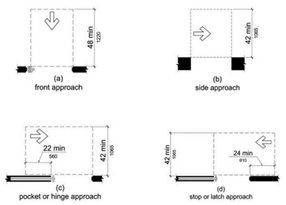

FIGURE 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

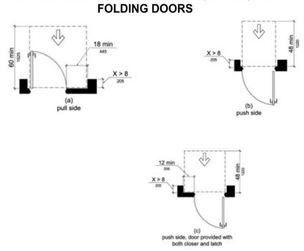

FIGURE 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

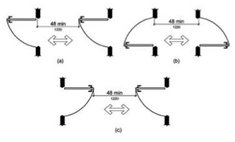

FIGURE 404.2.6 DOORS IN SERIES AND GATES IN SERIES

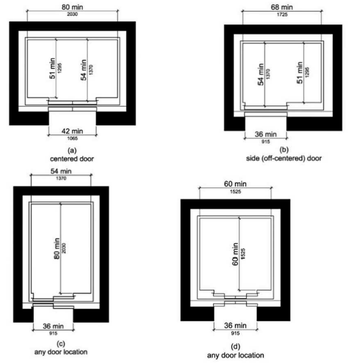

FIGURE 407.4.1 ELEVATOR CAR DIMENSIONS

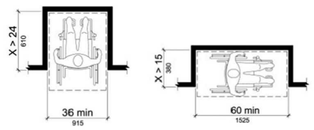

FIGURE 305.7.2 MANEUVERING CLEARANCE IN AN ALCOVE

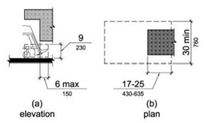

FIGURE 306.2 TOE CLEARANCE

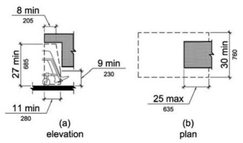

FIGURE 306.3 KNEE CLEARANCE

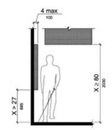

FIGURE 307.2 LIMITS OF PROTRUDING OBJECTS

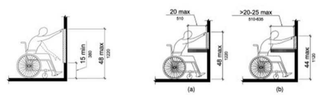

FIGURE 308.2.2 OBSTRUCTED HIGH REACH

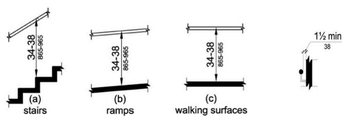

FIGURE 505.5 HANDRAIL CLEARANCE & HEIGHT

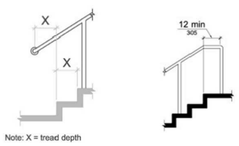

FIGURE 505.10.3 HANDRAIL EXTENSION AT STAIRS & BOTTOM AND TOP OF STAIR

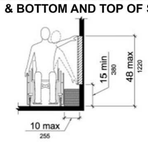

FIGURE 308.3.1 UNOBSTRUCTED SIDE REACH

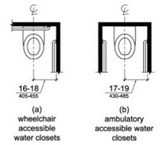

FIGURE 604.2 WATER CLOSET LOCATION

FIGURE 604.3.1 SIZE OF CLEARANCE AT WATER CLOSETS

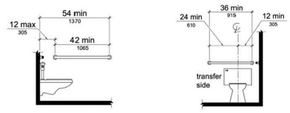

FIGURE 604.5.2 GRAB BAR WATER CLOSETS

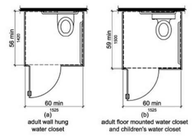

FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

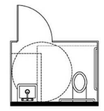

FIGURE 604.8.1.6 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT IN NEW CONSTRUCTION

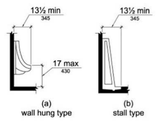

FIGURE 605.2 HEIGHT AND DEPTH OF URINALS

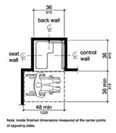

FIGURE 608.2.1 TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

FIGURE 608.2.3 ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

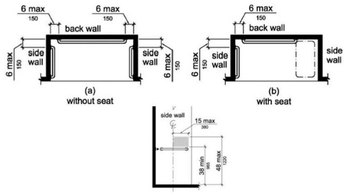

FIGURE 608.3.2 GRAB BARS FOR STANDARD ROLL-IN TYPE SHOWERS

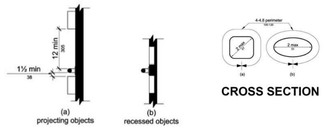

FIGURE 609.3 SPACING OF GRAB BARS

GUESTROOMS w/ COMMUNICATION FEATURES

TOTAL NUMBER OF GUESTROOMS AND SUITES: 69
REQUIRED COMMUNICATION ACCESSIBLE ROOMS (PER TABLE 224.4, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 806.3) REQUIRED GUEST ROOMS WITH COMMUNICATION FEATURES SHALL BE DISPERSED AMONG ALL CLASSES OF GUESTSROOMS:

 # OF UNITS PROVIDED: 7

PROVIDE A MINIMUM OF -- UNITS COMPLYING ADAAG REQUIREMENTS FOR ACCESSIBLE COMMUNICATION FEATURES. THESE INCLUDE:

1. GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH 806.3

2. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, ALARMS COMPLYING WITH 702 SHALL BE PROVIDED.

3. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (1999 OR 2002 EDITION)(INCORPORATED BY REFERENCE. SEE "REFERENCED STANDARDS" IN CHAPTER 1). EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 dB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION)

4. PER ADAAG; VISIBLE NOTIFICATION DEVICES SHALL BE PROVIDED TO ALERT ROOM OCCUPANTS OF INCOMING TELEPHONE CALLS AND A DOOR KNOCK OR BELL. NOTIFICATION DEVICES SHALL NOT BE CONNECTED TO VISIBLE ALARM SIGNAL APPLIANCES. TELEPHONES SHALL HAVE VOLUME CONTROLS COMPATIBLE WITH THE TELEPHONE SYSTEM AND SHALL COMPLY WITH 704.3. TELEPHONES SHALL BE SERVED BY AN ELECTRICAL OUTLET COMPLYING WITH 309 LOCATED WITHIN 48 INCHES (1220 mm) OF THE TELEPHONE TO FACILITATE THE USE OF A TTY.

GUESTROOMS w/ MOBILITY FEATURES

REFER TO SHEET G-010 FOR ACCESSIBILITY ACCESSORIES AND MOUNTING HEIGHTS
TOTAL NUMBER OF GUESTROOMS AND SUITES: 69
REQUIRED MOBILITY ACCESSIBLE ROOMS (PER TABLE 224.2, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN):

W/o ROLL-IN SHOWER:	3
W/ ROLL-IN SHOWER:	1
TOTAL:	**4**

TYPICAL ACCESSORIES AT TUB ROOMS

ITEM	MANUFACTURER	MODEL	FINISH
GRAB BARS AT TOILET	BOBRICK	B-5806 (1@42" + 1@36") - MOUNTED @ 36" A.F.F. - SEE PLAN	TYPE 304 SATIN S.S.
GRAB BARS AT TUB	BOBRICK	B-5806 (3@24" + 1@12") - MOUNTED @ 10" ABOVE TUB RIM, & 36" A.F.F. -B-5806 (1@24") MOUNTED @ 9" ABOVE TUB RIM - SEE PLAN	TYPE 304 SATIN S.S.
REMOVABLE SEAT FOR TUB	ACCESS-ABLE DESIGNS, INC	SH-426	WHITE

TYPICAL ACCESSORIES AT ROLL-IN SHOWER ROOMS

ITEM	MANUFACTURER	MODEL	FINISH
GRAB BARS AT TOILET	BOBRICK	B-5806 (1@42" + 1@36") - MOUNTED @ 36" A.F.F.	TYPE 304 SATIN S.S.
GRAB BARS AT SHOWER	BOBRICK	B-5806 (1@24" + 1@36") - MOUNTED @ 36" A.F.F.	TYPE 304 SATIN S.S.
FOLDING SEAT FOR SHOWER	BOBRICK	B-5193 (SEAT HEIGHT @ 17" A.F.F.)	IVORY

ACCESSIBLE UNIT DISPERSION

MOBILITY ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
221	K-GR
316	QQ-GR
302	JR

COMMUNICATION ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
121	KK-GR
216	DELUXE K
225	QQ-GR
308	QQ-GR
312	DELUXE JR SUITE
315	JUNIOR SUITE

MOBILITY IMPAIRED PUBLIC RESTROOM LEGEND

TYPICAL ACCESSORIES AT PUBLIC RESTROOMS

ITEM	MANUFACTURER	MODEL	FINISH
GRAB BARS AT TOILET	BOBRICK	B-5806 (1@42" + 1@36") - MOUNTED @ 36" A.F.F.	TYPE 304 SATIN S.S.
GRAB BARS AT SHOWER	BOBRICK	B-5806 (1@24" + 1@36") - MOUNTED @ 36" A.F.F.	TYPE 304 SATIN S.S.
FOLDING SEAT FOR SHOWER	BOBRICK	B-5193 (SEAT HEIGHT @ 17" A.F.F.)	IVORY

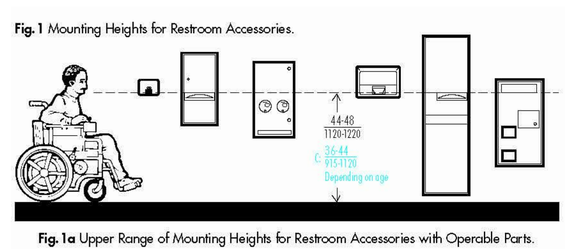

Fig. 1 Mounting Heights for Restroom Accessories.

Fig. 1a Upper Range of Mounting Heights for Restroom Accessories with Operable Parts.

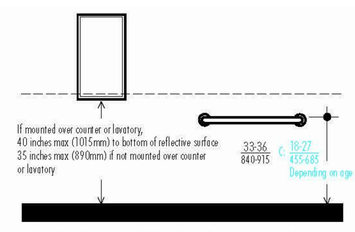

Fig. 1b Mirror and Toilet Grab Bar Mounting Heights.

C+TC DESIGN STUDIO

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Rafael Machado, Partner - 404.262.0800

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Norcross, GA, 30092
Kevin Price, Principal - 678.301.2258

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Libby Patrick, CEO - 404.261.6043

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Kat Blue, Principal - 404.371.0024

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Chuck McDaniel, Principal - 214.954.0016

STATE OF SOUTH CAROLINA
ELLINWOOD + CO.
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ACCESSIBILITY DETAILS

G-010
Sheet Number

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STATE OF SOUTH CAROLINA
ELLINWOOD & COMPANY
Atlanta, GA
No. 7703
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HOTEL HARTNESS

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Sheet Title
BUILDING SETBACKS

G-050
Sheet Number

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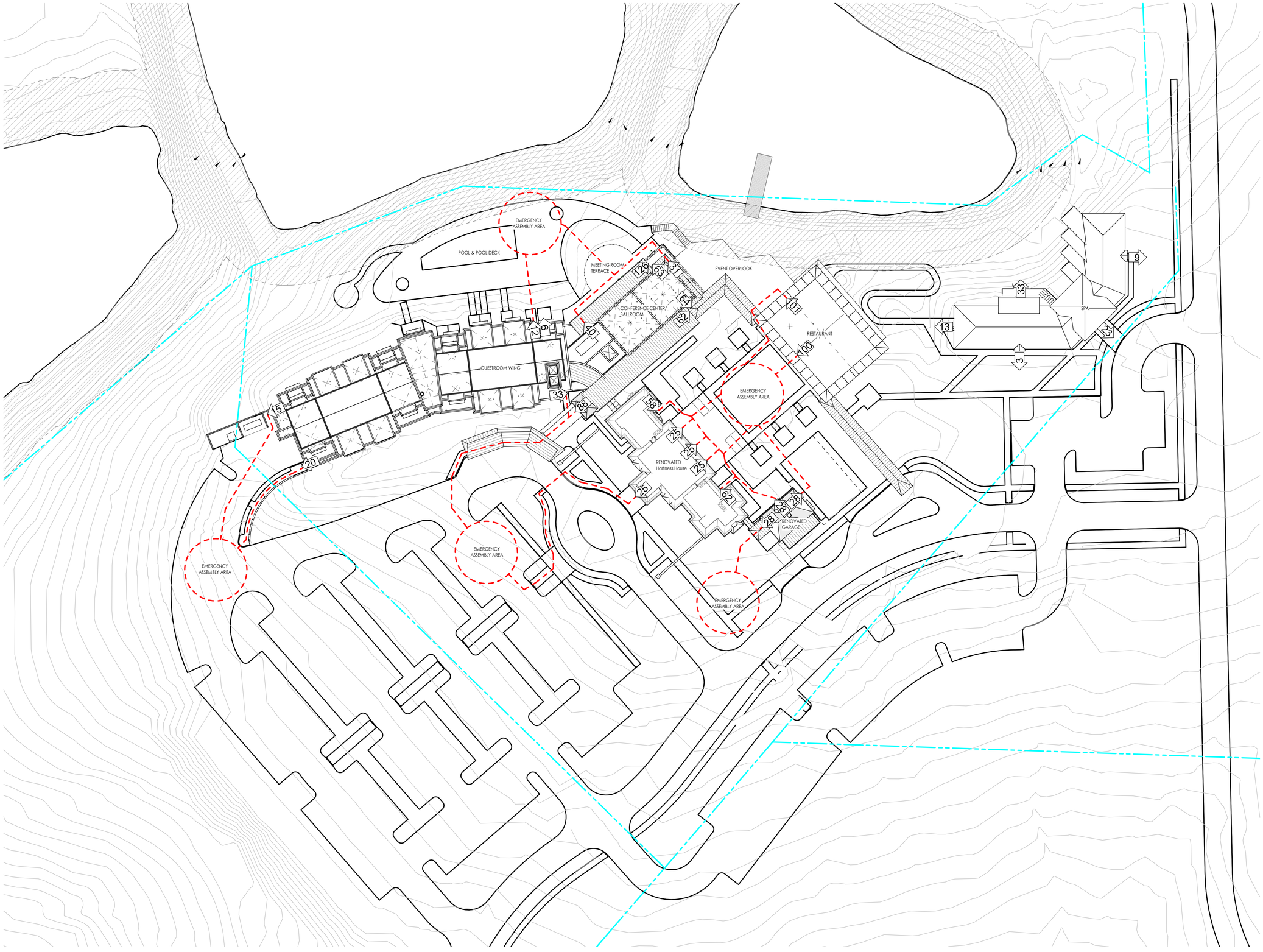

1 G-100 Site Egress Plan

SCALE: 1" = 30'-0"

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ELLINWOOD + CO.
Atlanta, GA
No. 7703
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NO.	DATE	DESCRIPTION
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B	02/28/2020	GMP Package

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
SITE EGRESS PLAN

G-100
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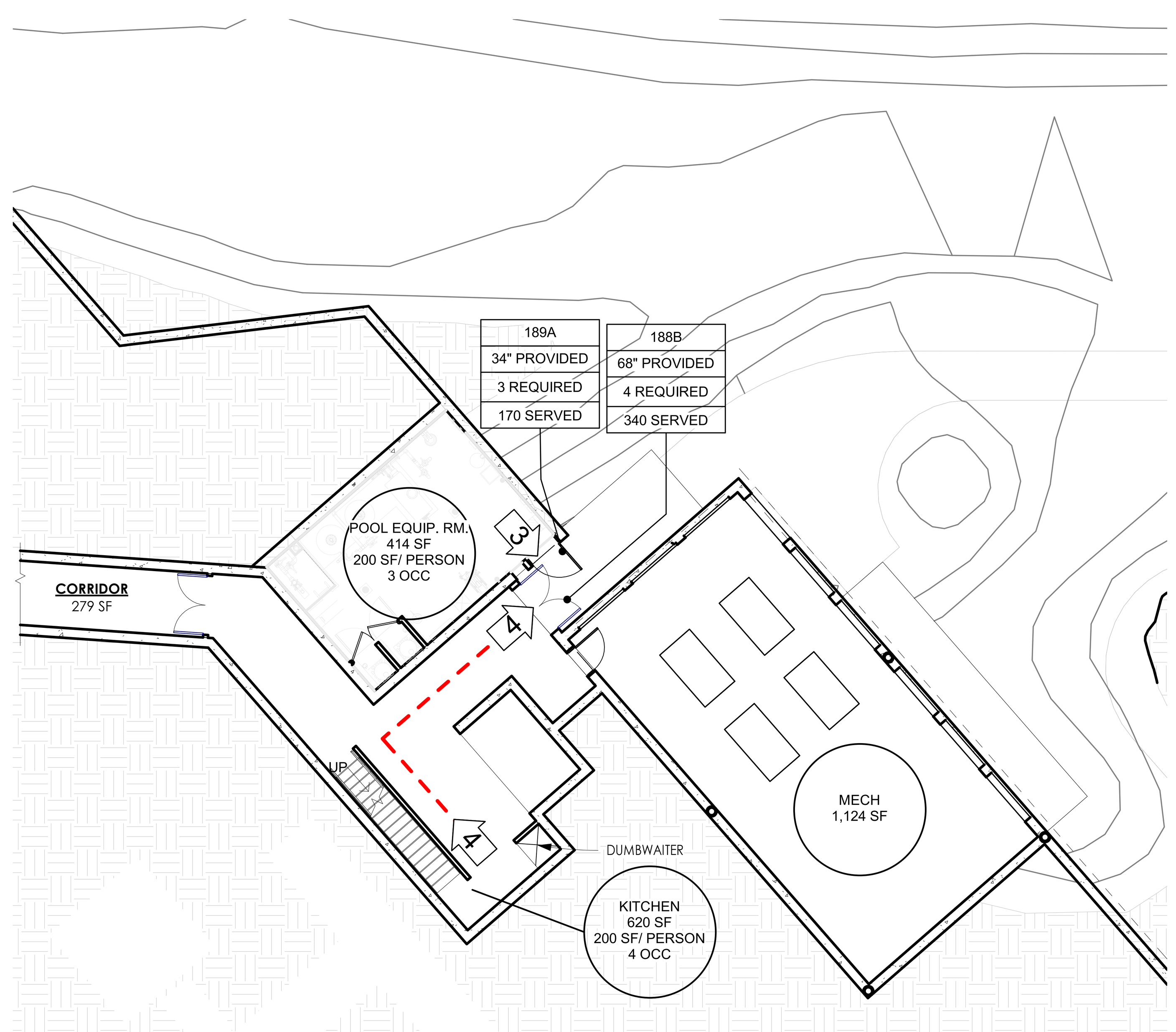


2
G-101
Hotel Hartness L1 Life Safety Plan - Restaurant Lower Level
SCALE: 3/32" = 1'-0"

LIFE SAFETY LEGEND

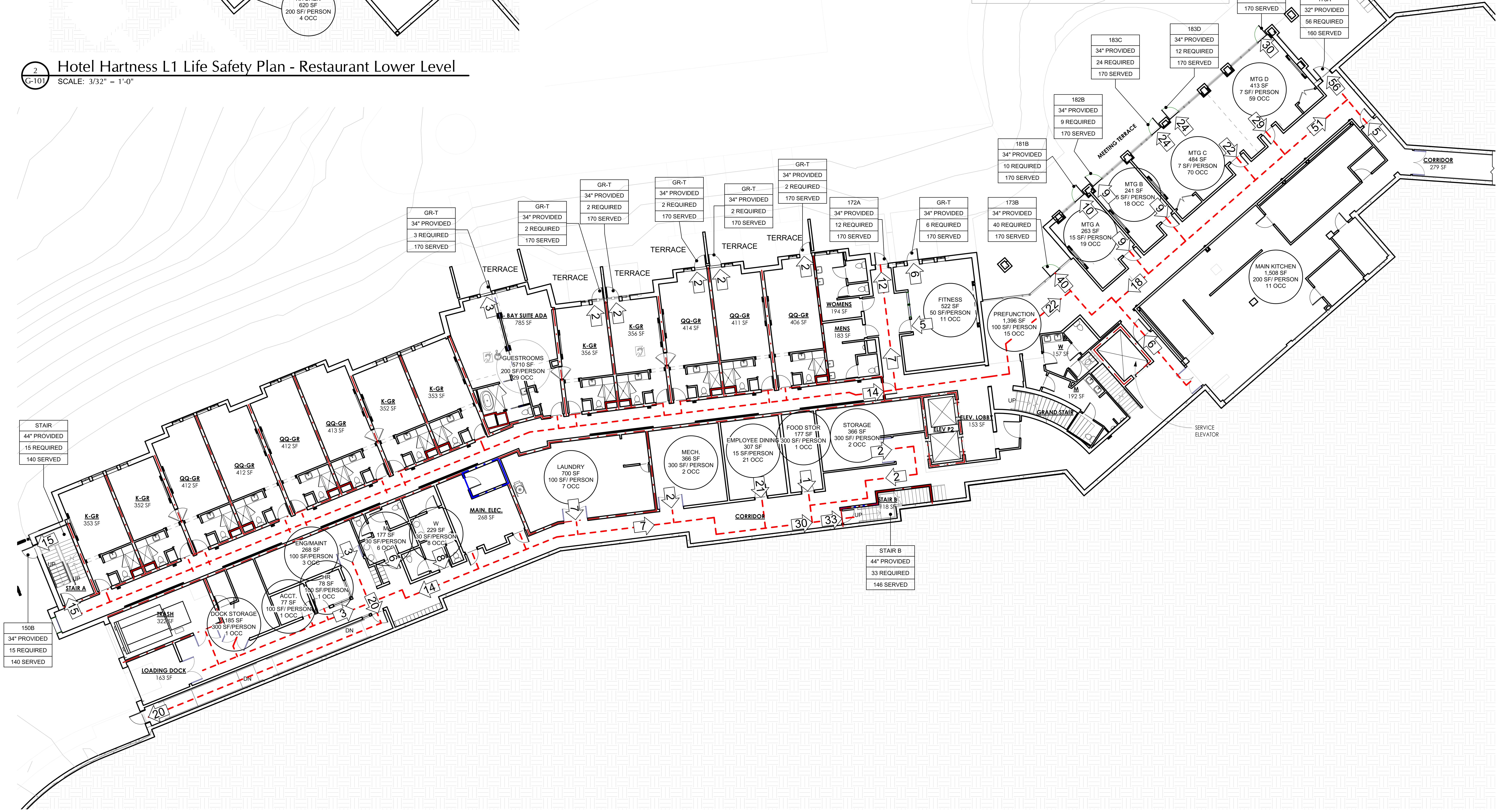
- FIRE-RATED PARTITION - ONE-HOUR RATING
- FIRE-RATED PARTITION - TWO-HOUR RATING
- SMOKE-RATED PARTITION
- 3 — OCCUPANTS USING ROUTE
- EGRESS ROUTE

SMFEC - SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
RFEC - RECESSED FIRE EXTINGUISHER CABINET
SRFEC - SEMI-RECESSED FIRE EXTINGUISHER CABINET
SMFE - SURFACE-MOUNTED FIRE EXTINGUISHER

ASSEMBLY/ RESTAURANT — OCCUPANCY TYPE / ROOM NAME
6164 SF — ROOM AREA
15 SF / PERSON — OCCUPANCY FACTOR
410 OCC. — # OF OCCUPANTS

DOOR 101A — DOOR NUMBER
IN. PROVIDED — # OF INCHES PROVIDED BY EGRESS COMPONENT
REQUIRED — # OF OCCUPANTS REQUIRED TO USE EGRESS COMPONENT
SERVED — # OF OCCUPANTS SERVED BY EGRESS COMPONENT

NOTES
1. ALL EGRESS DOORS SERVING ASSEMBLY OCCUPANCY SHALL HAVE PANIC HARDWARE.
2. ALL VERTICAL SHAFTS SHALL MAINTAIN 1-HOUR SEPARATION BETWEEN LEVELS.



1
G-101
Hotel Hartness L1 Life Safety Plan
SCALE: 3/32" = 1'-0"

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C+TC DESIGN STUDIO

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2700 Apple Valley Rd NE, Suite 85
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ctcdesignstudio.com

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MEP ENGINEERS
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Chuck McDaniel, Principal - 214.954.0016

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT
WILLIAM E. COX
Atlanta, GA
No. 7703

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
LEVEL 1 EGRESS PLAN

G-101
Sheet Number

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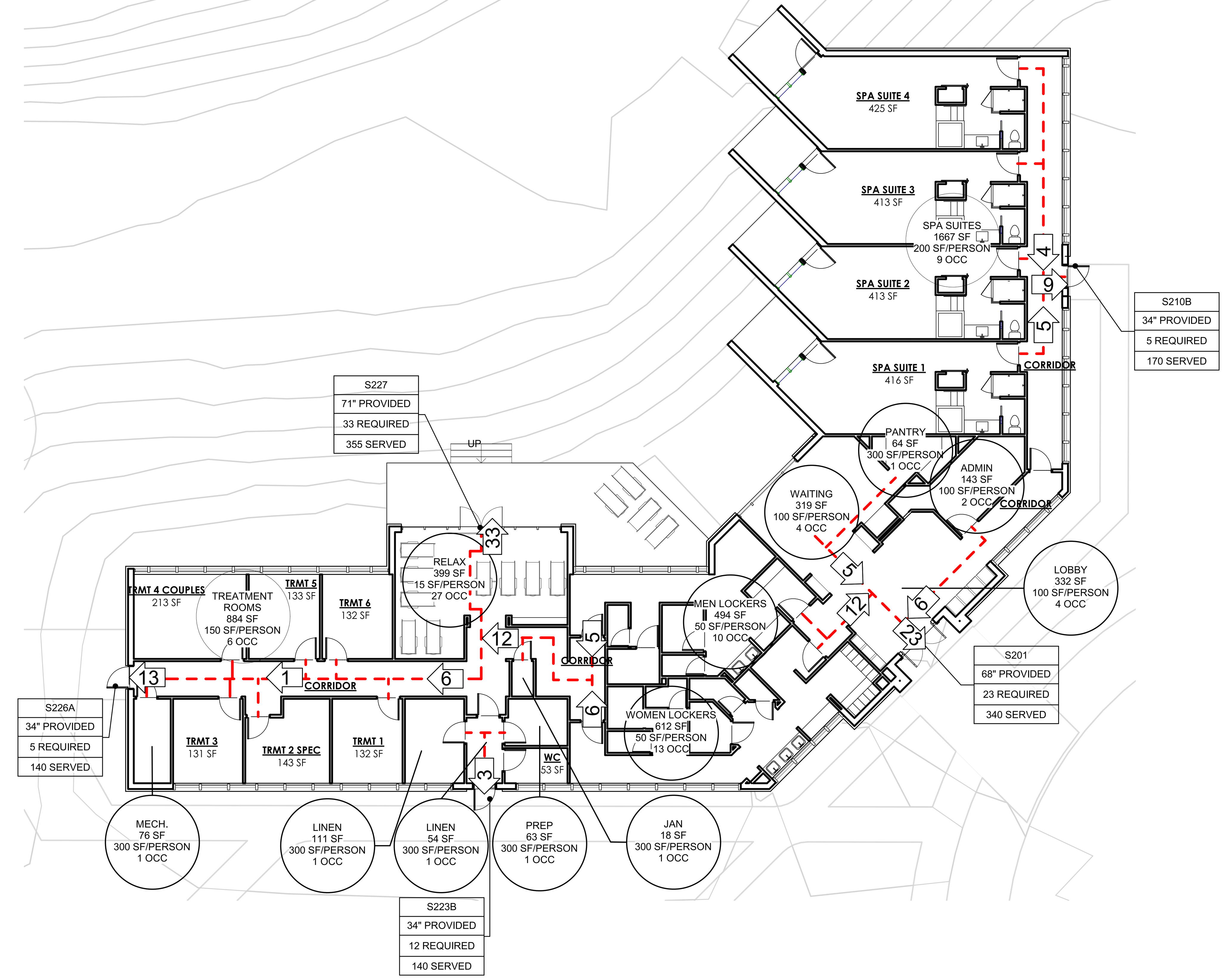

2 G-102 Hotel Hartness Spa Life Safety Plan
SCALE: 3/32" = 1'-0"

1 G-102 Hotel Hartness L2 Life Safety Plan
SCALE: 3/32" = 1'-0"

LIFE SAFETY LEGEND

- FIRE-RATED PARTITION - ONE-HOUR RATING
- FIRE-RATED PARTITION - TWO-HOUR RATING
- SMOKE-RATED PARTITION
- 3 — OCCUPANTS USING ROUTE
- EGRESS ROUTE

SMFEC - SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
RFEC - RECESSED FIRE EXTINGUISHER CABINET
SRFEC - SEMI-RECESSED FIRE EXTINGUISHER CABINET
SMFE - SURFACE-MOUNTED FIRE EXTINGUISHER

ASSEMBLY/ RESTAURANT 6164 SF 15 SF / PERSON 410 OCC.
- OCCUPANCY TYPE
- ROOM NAME
- ROOM AREA
- OCCUPANCY FACTOR
- # OF OCCUPANTS

DOOR 101A / IN. PROVIDED / # REQUIRED / # SERVED
- DOOR NUMBER
- # OF INCHES PROVIDED BY EGRESS COMPONENT
- # OF OCCUPANTS REQUIRED TO USE EGRESS COMPONENT
- # OF OCCUPANTS SERVED BY EGRESS COMPONENT

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BLUE LANTERN STUDIO

LIGHTING DESIGNER
GABLER-YOUNGSTON, INC.

Owners Consultants
CIVIL ENGINEER
LANDDESIGN

LANDSCAPE ARCHITECT
SWA

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT No. 7703

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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Sheet Title
LEVEL 2 EGRESS PLAN

G-102
Sheet Number

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LIFE SAFETY LEGEND

FIRE-RATED PARTITION - ONE-HOUR RATING
FIRE-RATED PARTITION - TWO-HOUR RATING
SMOKE-RATED PARTITION
OCCUPANTS USING ROUTE
EGRESS ROUTE

SMFEC - SURFACE-MOUNTED FIRE EXTINGUISHER CABINET
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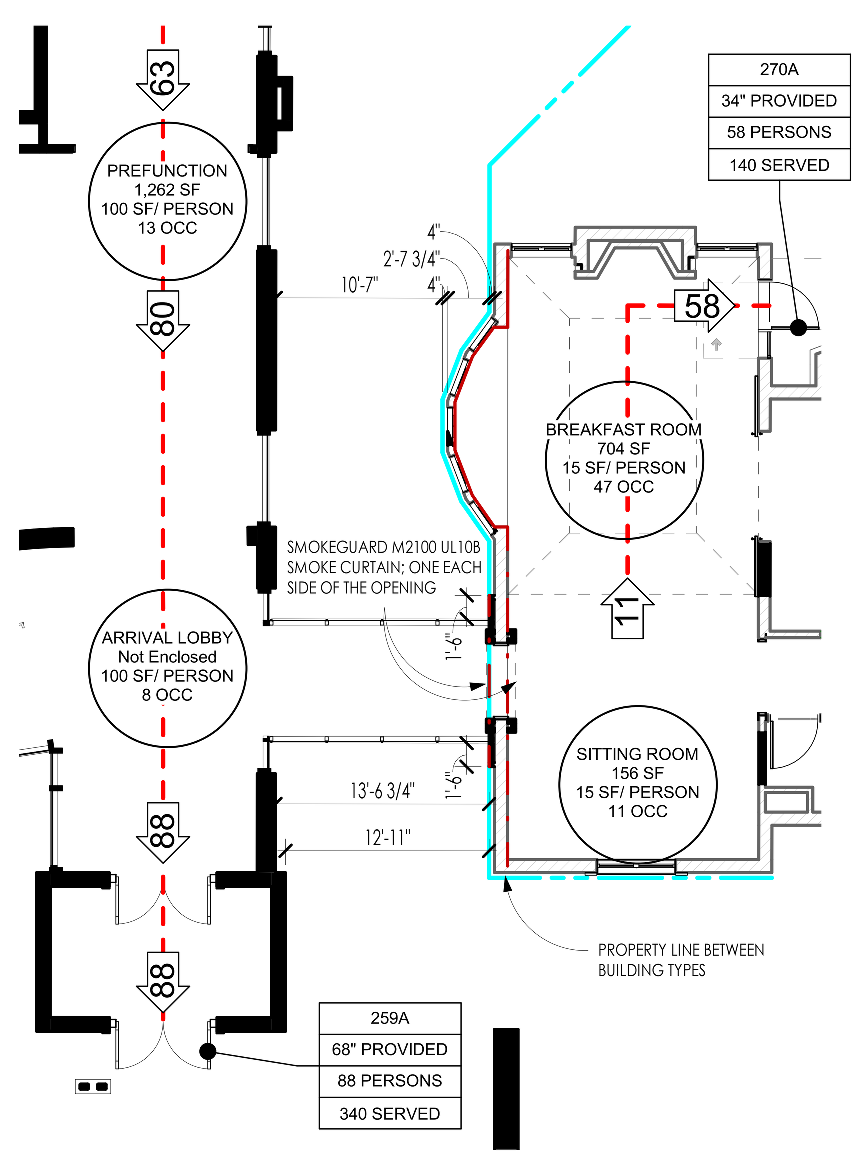
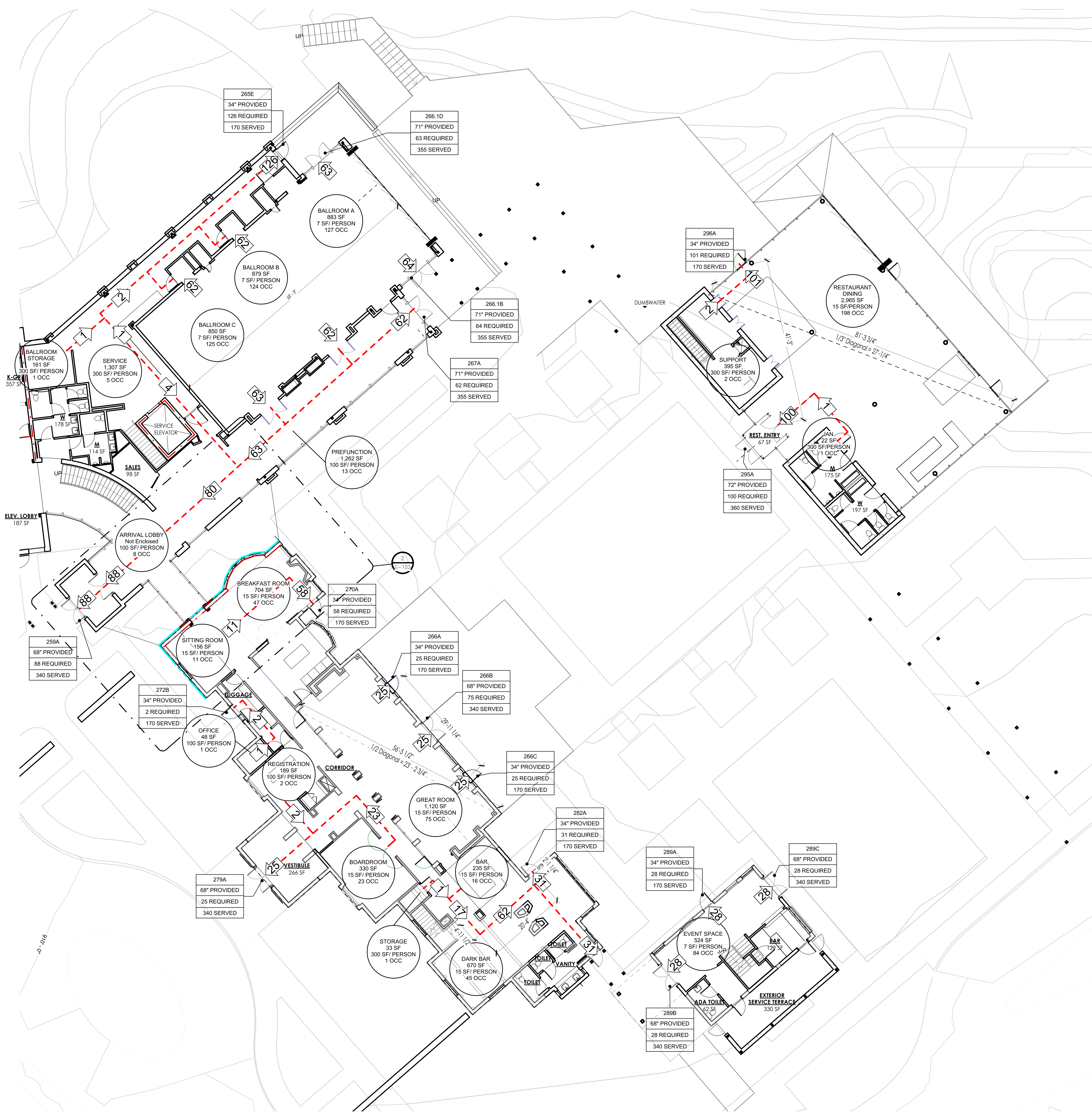


2 G-103 Connection at Existing House/Hotel
SCALE: 1/8" = 1'-0"



1 G-103 Hotel Hartness L2 Life Safety Plan
SCALE: 3/32" = 1'-0"

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STATE OF SOUTH CAROLINA REGISTERED ARCHITECT WILLIAM E. COX Atlanta, GA No. 7703

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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LEVEL 2 EGRESS PLAN

G-103
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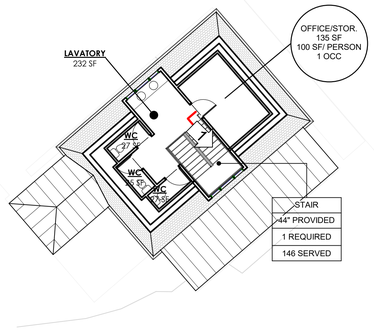

2 G-104 Event Space Upper Floor Egress Plan
SCALE: 3/32" = 1'-0"

1 G-104 Hotel Hartness L3 Life Safety Plan
SCALE: 3/32" = 1'-0"

LIFE SAFETY LEGEND

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STATE OF SOUTH CAROLINA
ELLINWOOD & CO.
Atlanta, GA
No. 7703
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
LEVEL 3 EGRESS PLAN

G-104
Sheet Number

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HOTEL HARTNESS

CONSTRUCTION DOCUMENTS SET

CASE/PERMIT # 2019-0058

GREENVILLE, SC

DATE: 08.19.2019
REV: 01.31.2020

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C1-1	NOTES
C1-2	EXISTING CONDITIONS PLAN
-	APPROVED PRELIMINARY PLAT
-	APPROVED FINAL DEVELOPMENT PLAN
C1-3	DEMOLITION PLAN
C1-4	WETLAND IMPACTS
CHAPTER 2	
C2-0	OVERALL SITE PLAN
C2-1 - C2-2	DETAILED SITE PLAN
C2-3 - C2-4	SITE DETAILS
C2-5 - C2-6	PLAN & PROFILE - TRAVERSE DRIVE
C2-7	PLAN & PROFILE - HALSTON AVENUE
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C4-3 - C4-4	EROSION CONTROL PHASE 1
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C5-8	STORM DRAINAGE DETAILS
C5-9	DETENTION POND PLAN & SECTION
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L0-1	TREE PROTECTION NOTES AND LEGEND
L0-2 - L0-4	TREE PROTECTIOS PLAN
L1-1	PLANTING SCHEDULE
L1-2 - L1-4	PLANTING PLAN
L1-5	PLANTING DETAILS

VICINITY MAP

SCALE: 1"=1000'
0 500' 1000' 2000'

PROJECT TEAM

OWNER/DEVELOPER
HARTNESS DEVELOPMENT, INC.
3500 S HIGHWAY 14
GREENVILLE, SC 29615
864.304.0472
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CONTACT: CHUCK McDANIEL

ARCHITECT
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GREENVILLE COUNTY SUBDIVISION ADMINISTRATION
COUNTY SQUARE
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CONTACT: HAROLD MOON

WATER
GREENVILLE WATER SYSTEM
864.467.7691
CONTACT: MIKE SHARPLESS

GAS
PIEDMONT NATURAL GAS
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CONTACT: DAVID ROBINETTE

POWER
LAURENS ELECTRIC
COOPERATIVE, INC.
864.288.7412 EXT. 1912
CONTACT: KEITH MASON

SEWER
METROPOLITAN SEWER SUB-DISTRICT
864.277.4442
CONTACT: ROBERT ARMS

PUPS
PALMETTO UTILITY PROTECTION SERVICES INC
3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 1-888-721-7877

LandDesign.

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEY PROVIDED BY BENCHMARK SURVEYING, INC. RECIEVED BY SWA ON JANUARY I6, 2015. RECEIVED FROM SWA BY LANDDESIGN, INC. ON JANUARY 10, 2017.

2. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVES. EXISTING UTILITIES SHOWN DO NOT INCLUDE ALL UTILITIES THAT MAY EXIST.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THIS SITE AND AROUND THE PERIMETER OF THIS SITE WHERE SUCH UTILITIES MIGHT BE OCCASIONED BY ANY ACTIVITY INVOLVED WITH THESE PLANS. ALL UTILITY LOCATION WORK SHALL BE DONE PRIOR TO CONSTRUCTION ACTIVITY, THE CONTRACTOR AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES THAT MAY EXIST.

4. THE CONTRACTOR SHALL VERIFY THE EXISTING TOPOGRAPHY AND EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING WORK. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWING PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE SHALL NOTIFY THE ENGINEER IMMEDIATELY.

5. ALL CONTRACTORS MUST HAVE APPROPRIATE BUSINESS LICENSE PRIOR TO BEGINNING WORK.

6. THE PROPERTY IS LOCATED IN GREENVILLE COUNTY, SOUTH CAROLINA.

7. THE PARCEL NUMBER IS 0533020100600. THE TOTAL DISTURBED AREA IS ±13.57 ACRES. THE TOTAL SITE AREA IS ±337.20 AC.

8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. AN AUTOCAD FILE OF THIS DRAWING CAN BE PROVIDED TO THE CONTRACTOR FOR CONSTRUCTION LAYOUT PURPOSES. LANDDESIGN PROVIDES NO WARRANTY REGARDING THE USE OF ELECTRONIC FILES. ALL MEASUREMENTS ARE CALCULATED AND NOT SURVEYED UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

9. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY.

10. THIS PROPERTY IS LOCATED IN ZONES AE AND X AS SCALED FROM FEMA FIRMS 45045C0429E, 45045C0428E, 45045C0427E AND 45045C0426E.

11. CLEARING OUTSIDE OF WHAT IS DEPICTED ON THESE PLANS TO BE CLEARED IS PROHIBITED. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR LAND DISTURBANCES BEYOND THE LIMITS OF DISTURBANCE INDICATED ON THE CONSTRUCTION DOCUMENTS AT THE CONTRACTOR'S EXPENSE.

12. THE SITE WORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTING TO MEET SPECIFICATIONS.

13. PROVIDE SILT FENCE ALONG THE TOE OF ANY SLOPES OR LOCATIONS WHERE SEDIMENT SHALL DISCHARGE FROM THE SITE. SEE EROSION CONTROL PLAN FOR SPECIFIC LOCATIONS.

14. TREE PROTECTIVE BARRICADES (WHERE NOTED ON PLAN) SHALL BE PLACED AROUND ALL TREES TO REMAIN DURING ALL PHASES OF CONSTRUCTION UNTIL DEVELOPMENT ACTIVITIES ARE COMPLETE.

15. THE RECEIVING WATER IS THE ROCKY CREEK.

16. THE EXISTING SOILS ARE CED, CEC, CEB, APC AND APB.

17. THE COMPUTER MODEL STORMCAD WAS USED TO DETERMINE THE STORMWATER RUNOFF FOR EACH WATERSHED (2, 10, 25 YEAR STORMS).

18. THE OWNER IS HARTNESS DEVELOPMENT, INC. THE NATURE OF CONSTRUCTION IS A COMMERCIAL DEVELOPMENT.

19. TEMPORARY DIVERSION DITCHES ARE TO BE USED AS NEEDED DURING CONSTRUCTION. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE IN ALL INSTANCES.

20. ALL SLOPES TO BE STABILIZED BEFORE GREENVILLE COUNTY FINAL ACCEPTANCE.

21. CONTRACTOR IS RESPONSIBLE FOR PREPARATION & MAINTENANCE OF TRAFFIC CONTROL PLAN & DEVICES IF REQUIRED OR AS NEEDED.

22. SURVEY AS-BUILT, PREPARED BY A SC REGISTERED LAND SURVEYOR, OF ONSITE PONDS, STORM DRAINAGE SYSTEM, PERMANENT SWALES, AND BUILDING SLAB LOCATION AND FINISHED FLOOR ELEVATION WILL BE REQUIRED AS PART OF THE CLOSEOUT PROCESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE AS-BUILT SURVEY TO THE ENGINEER AT THE COMPLETION OF CONSTRUCTION.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. THERE SHALL BE NO BURNING ON THE SITE.

3. ALL EXISTING STRUCTURES (IF ENCOUNTERED) AND RELATED FOOTING, FOUNDATIONS, STEPS, ETC. ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES.

4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) AS NECESSARY TO FACILITATE CONSTRUCTION. SEE THE SPECIFICATIONS FOR SPECIFIC DIRECTION.

5. EXISTING SEPTIC TANKS, GREASE TRAPS, AND/OR UNDERGROUND TANKS, IF ENCOUNTERED, ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF ACCORDING TO APPLICABLE CODES. THE LOCATION OF ANY TANKS SHALL BE RECORDED AND THE ENGINEER SHALL BE NOTIFIED AT ONCE.

6. WELLS, IF ENCOUNTERED, SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR, PROTECTED, UNLESS DIRECTED OTHERWISE ON THESE PLANS AND SURROUNDING GRADES SHALL BE MAINTAINED SUCH THAT SURFACE RUNOFF CANNOT ENTER THE WELL OPENING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT ONCE.

7. THE CONTRACTOR SHALL CONSULT THE OWNER REGARDING SALVAGE. ANY ITEMS NOT RETAINED BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.

8. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO DEMOLITION AND REMAIN IN PLACE UNTIL FINAL STABILIZATION AND COMPLETION OF CONSTRUCTION ACTIVITIES.

9. IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.

10. DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.

11. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITIES AND CONFIRM LOCATION, AND DEPTH IF NECESSARY BY MEANS OF NON DESTRUCTIVE INVESTIGATION (IE POT HOLING WITH VAC OR WATER). ANY UTILITIES LOCATED BY CONTRACTOR THAT ARE DAMAGED ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SEDIMENT CONTROL NOTES

1. ALL SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES IN PRECIPITATION DURING ANY 24 HOUR PERIOD. ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN 14 DAYS.

3. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY IS INSTALLED.

4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION, COORDINATION, AND FINAL INSPECTION IS COMPLETE AND THE SITE IS STABILIZED.

5. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

OVERALL EROSION CONTROL NOTES:

MAINTAIN ALL SEDIMENT AND EROSION CONTROL FEATURES THROUGHOUT THE LIFE OF THE PROJECT

INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION

CONTRACTOR TO INSTALL EROSION CONTROL BLANKET ON ALL SLOPES 3:1 OR STEEPER, OR GREATER THAN 8 FEET VERTICAL IN HEIGHT.

CONTRACTOR TO ENSURE THAT ANY SOIL THAT IS POTENTIALLY HAULED IN FROM OFFSITE OR HAULED OFF OF THE SITE MUST BE FROM OR GO TO A PERMITTED SITE/LOCATION. ANY APPLICABLE PERMITTING WILL BE THE CONTRACTOR'S RESPONSIBILITY.

INSPECTIONS BY THE COUNTY ENGINEER

1. START UP OR PRE-CONSTRUCTION MEETING. AT THE DIRECTION OF THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE, A START UP OR PRE-CONSTRUCTION MEETING WILL BE REQUIRED TO DISCUSS CONSTRUCTION ISSUES PRIOR TO BEGINNING WORK. THE DESIGN ENGINEER, CONTRACTOR, UTILITY PROVIDERS AND COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE WILL ATTEND THE MEETING, PREFERABLY ON-SITE.

2. PROOFROLLS. THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE, OR COUNTY APPROVED THIRD PARTY GEOTECHNICAL ENGINEER MUST BE ON SITE FOR THE PROOFROLL, AND ANY FOLLOW-UP PROOFROLLS AS REQUIRED. THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL REVIEW ALL COMPACTION TEST RESULTS SUBMITTED BY THE DESIGN ENGINEER AND MUST APPROVE THE REPORTS BEFORE THE CONTRACTOR INSTALLS THE BINDER.

3. STORM DRAINAGE INSPECTIONS. AFTER INSTALLATION OF THE STORM DRAIN SYSTEM AND PRIOR TO THE BINDER INSTALLATION, THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE WILL PERFORM AN INSPECTION OF THE STORM DRAINAGE SYSTEM. ALL LIDS AND COVERS WILL BE REQUIRED TO BE REMOVED FOR THE INSPECTION.

4. BINDER PUNCH-LIST AND FOLLOW UP. THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL MEET THE DESIGN ENGINEER TO INSPECT AND PUNCH-OUT THE BINDER, CURBS, AND CATCH BASINS PRIOR TO INSTALLING THE FINAL SURFACE. A FOLLOW-UP MEETING WILL BE HELD AS NECESSARY TO REVIEW AND APPROVE ANY REQUIRED REPAIRS.

5. FINAL PUNCH-LIST AND FOLLOW UP. THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL MEET THE DESIGN ENGINEER AND OTHERS TO INSPECT ALL ASPECTS OF THE ROADWAY AND DRAINAGE SYSTEM AND PREPARE THE FINAL PUNCH LIST PRIOR TO ACCEPTANCE. A FOLLOW-UP MEETING WILL BE HELD AS NECESSARY TO REVIEW AND APPROVE ANY REQUIRED REPAIRS.

6. PAVING. THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE AND DESIGN ENGINEER/LEVEL 2, SCDOT INSPECTOR WILL PLAN TO BE ON-SITE DURING PAVING INSTALLATIONS, BUT WILL ULTIMATELY RELY ON THE DESIGN ENGINEER'S INSPECTION REPORT AND CERTIFICATION OF THE PAVING OPERATIONS.

7. FOLLOW-UP INSPECTIONS. THE COUNTY ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE WILL MAKE ADDITIONAL INSPECTIONS OF THE SITE AS NEEDED TO MEET WITH THE DESIGN ENGINEER, REVIEW AND APPROVE REPAIRS, OR ADDRESS OTHER PROBLEMS.

8. THIRTY SIX (36) HOURS NOTICE. THE COUNTY SHALL BE PROVIDED A MINIMUM OF 36 HOURS ADVANCE NOTICE PRIOR TO ANY OF THE ABOVE KEY INSPECTIONS. FAILURE TO PROVIDE THE 36 ADVANCE NOTICE MAY RESULT IN SCHEDULING CONFLICTS, DELAY OF THE COUNTY'S INSPECTION, AND POSSIBLE DISRUPTION OF THE PROJECT SCHEDULE.

CONSTRUCTION QUALITY CONTROL

IT IS THE CONTRACTOR'S AND/OR SUBCONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL PERIODIC INSPECTIONS WITH GREENVILLE COUNTY AND THE ENGINEER OF RECORD AT THE FOLLOWING STAGES OF CONSTRUCTION:

1. PRECONSTRUCTION MEETING
2. AT THE COMPLETION OF CLEARING AND GRUBBING OPERATIONS
3. AT THE COMPLETION OF ROUGH GRADING
4. DURING STORM DRAIN INSTALLATION
5. AT COMPLETION OF STORM DRAIN, WATER & ROAD SUBGRADE, BEFORE CURB INSTALLATION, THE ENGINEER OF RECORD (OR APPROVED THIRD-PARTY INSPECTOR) MUST VERIFY PROPER ROAD WIDTH ALIGNMENT, AND SUBGRADE PREPARATION FOR PROPER CURB INSTALLATION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE COUNTY SUBDIVISION INSPECTOR AND MUST BE CORRECTED PRIOR TO PLACING CURB.
6. PROOFROLL BEFORE BINDER INSTALLATION
7. DURING BASE COURSE INSTALLATION
8. DURING SURFACE APPLICATION
9. DURING FINAL SURFACE COURSE INSTALLATION

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND COUNTY INSPECTOR AT LEAST 36 HOURS PRIOR TO THE REQUIRED INSPECTIONS FOR ITEMS 1, 4, 6, 7, & 8 AND NO MORE THAN 1 WEEK AFTER THE COMPLETION OF ITEMS 2, 3 AND 5. THE ENGINEER SHALL CONDUCT ALL REQUIRED INSPECTIONS OR MAKE ARRANGEMENTS FOR AN APPROVED THIRD-PARTY TO INSPECT. FAILURE OF THE CONTRACTOR TO NOTIFY AND COORDINATE INSPECTIONS WITH THE ENGINEER AND COUNTY WILL RESULT IN PROJECT DELAYS, RE-WORK AND/OR ADDITIONAL TESTING REQUIREMENTS.

NOTE: BEFORE FINAL ACCEPTANCE, THERE WILL BE A PUNCH LIST INSPECTION AND A FINAL INSPECTION WHICH WILL BE ATTENDED BY THE OWNER, CONTRACTOR, ENGINEER AND THE COUNTY.

NOTE: A PRECONSTRUCTION MEETING IS REQUIRED BETWEEN THE CONTRACTOR, ENGINEER, ALL UTILITY PROVIDERS AND THE GREENVILLE COUNTY INSPECTOR PRIOR TO COMMENCEMENT OF BUILDING. CALL (864) 467-4610 TO SET UP THE MEETING.

SCDHEC STANDARD NOTES

1. IF NECESSARY SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

* WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

* WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IN TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM A SLOPE RUNOFF AND/OR TO DIVERT SEDIMENT/LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

*WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

*WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPONENTS, AND OTHER CONSTRUCTION MATERIALS;

*FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND

*SOAPS SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING"

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVEN WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENT IN THE SWPPP AND ALTERNATE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE."

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 12-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

PUPS
PALMETTO UTILITY PROTECTION SERVICES INC
3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877

LandDesign.
223 NORTH GRAHAM STREET
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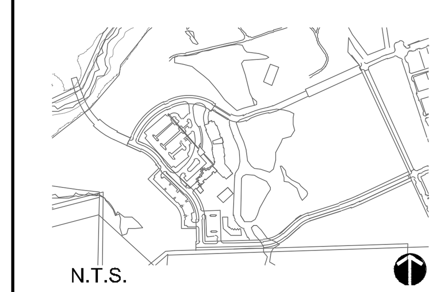
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE NORTH

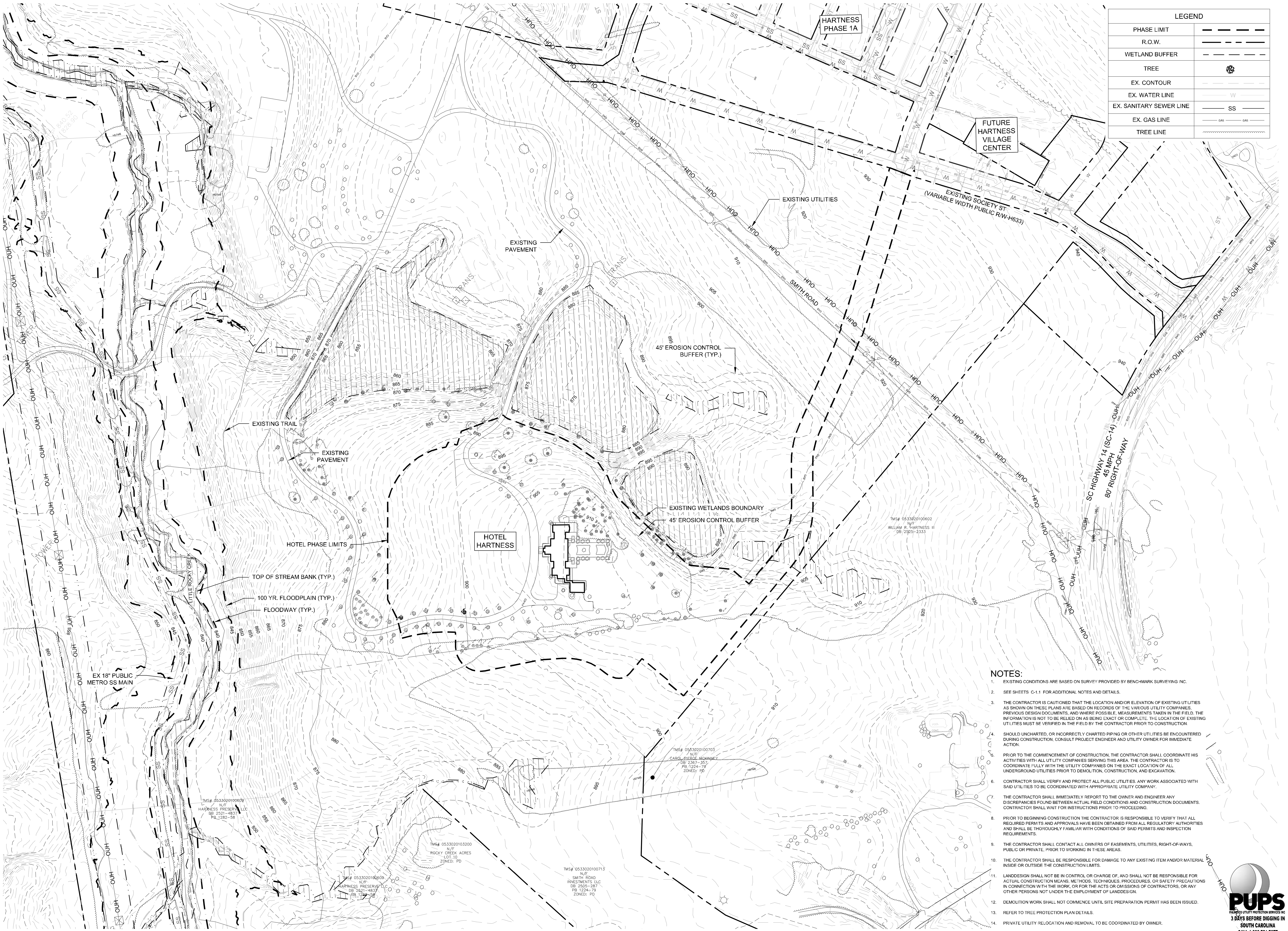
VERT: N/A
HORZ: N/A

SHEET TITLE

NOTES

SHEET NUMBER

C1-1



LEGEND

PHASE LIMIT	
R.O.W.	
WETLAND BUFFER	
TREE	
EX. CONTOUR	
EX. WATER LINE	W
EX. SANITARY SEWER LINE	SS
EX. GAS LINE	GAS
TREE LINE	

NOTES:

1. EXISTING CONDITIONS ARE BASED ON SURVEY PROVIDED BY BENCHMARK SURVEYING INC.
2. SEE SHEETS C-1.1 FOR ADDITIONAL NOTES AND DETAILS.
3. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. SHOULD UNCHARTED, OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING CONSTRUCTION, CONSULT PROJECT ENGINEER AND UTILITY OWNER FOR IMMEDIATE ACTION.
5. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ALL UTILITY COMPANIES SERVING THIS AREA. THE CONTRACTOR IS TO COORDINATE FULLY WITH THE UTILITY COMPANIES ON THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION, CONSTRUCTION, AND EXCAVATION.
6. CONTRACTOR SHALL VERIFY AND PROTECT ALL PUBLIC UTILITIES. ANY WORK ASSOCIATED WITH SAID UTILITIES TO BE COORDINATED WITH APPROPRIATE UTILITY COMPANY.
7. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL WAIT FOR INSTRUCTIONS PRIOR TO PROCEEDING.
8. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES AND SHALL BE THOROUGHLY FAMILIAR WITH CONDITIONS OF SAID PERMITS AND INSPECTION REQUIREMENTS.
9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
11. LANDDESIGN SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR ACTUAL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK, OR FOR THE ACTS OR OMISSIONS OF CONTRACTORS, OR ANY OTHER PERSONS NOT UNDER THE EMPLOYMENT OF LANDDESIGN.
12. DEMOLITION WORK SHALL NOT COMMENCE UNTIL SITE PREPARATION PERMIT HAS BEEN ISSUED.
13. REFER TO TREE PROTECTION PLAN DETAILS.
14. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

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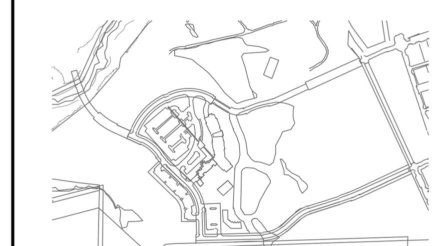
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP



N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

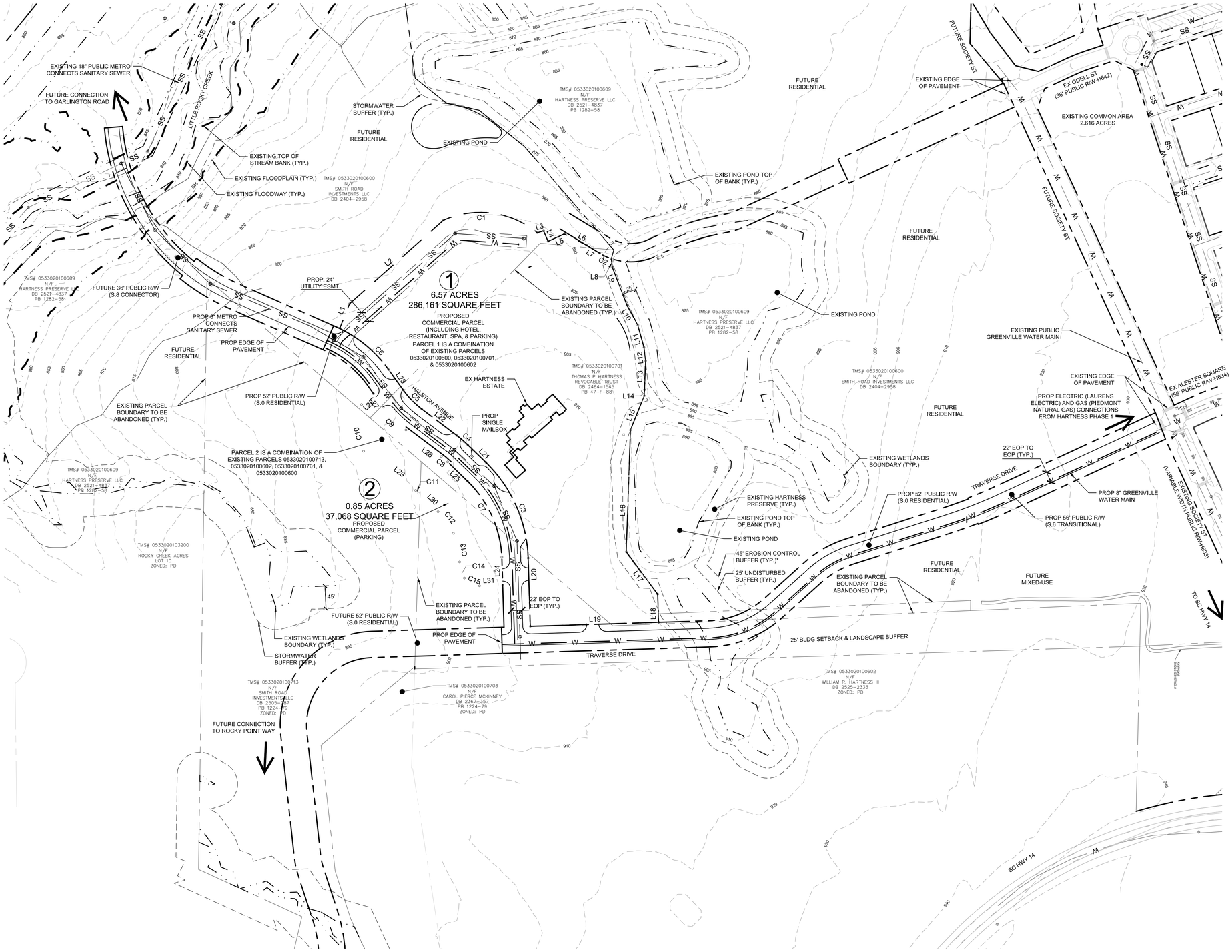
DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

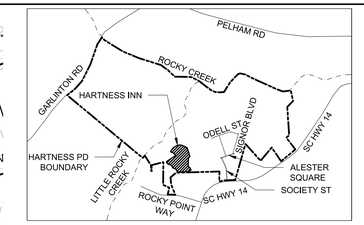
SCALE
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

NORTH

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET NUMBER
C1-2





VICINITY MAP
SCALE: 1" = 2000'

OWNER/DEVELOPER:
HARTNESS DEVELOPMENT, INC
3500 SC HWY 14
GREENVILLE, SC 29615
CONTACT: CLAY DRIGGERS
PHONE: 864-304-0472
EMAIL: CLAY@HARTNESSLIVING.COM

ARCHITECT:
C+TC DESIGN STUDIO
3300 NORTHEAST EXPY, STE 6
ATLANTA, GA 30341
CONTACT: JIM CULPEPPER
PHONE: 770-676-7618
EMAIL:JCULPEPPER@CTCDESIGNSTUDIO.COM

CIVIL ENGINEER:
LANDDESIGN, INC
223 N GRAHAM ST
CHARLOTTE, NC 28202
CONTACT: KEVIN VOGEL
PHONE:704-333-0325
EMAIL:KVOGEL@LANDDESIGN.COM

LANDSCAPE ARCHITECT:
SWA GROUP
2001 IRVING BOULEVARD, SUITE 157
DALLAS, TX 75207
CONTACT: CHUCK McDANIEL
PHONE:214-954-0016
EMAIL:CMCDANIEL@SWAGROUP.COM

DEVELOPMENT SUMMARY:

OVERALL DEVELOPMENT NAME: HARTNESS
PROJECT PROPOSED WITH THIS SUBMITTAL: HARTNESS INN

EXISTING ZONING: PLANNED DEVELOPMENT

EXISTING PARCELS REASSEMBLED FOR INN DEVELOPMENT:
0533020100600, 0533020100701, 0533020100713, 0533020100602

PROPOSED PARCELS:
PARCEL 1 : 6.57 ACRES OR 286,161 SQUARE FEET
PARCEL 2 : 0.85 ACRES OR 37,068 SQUARE FEET
TOTAL: 7.42 ACRES OR 323,229 SQUARE FEET

LINEAR FOOTAGE OF PUBLIC ROAD PROPOSED: 2,150 L.F.

NOTES:

1. UNDERSIGNED ENGINEER/SURVEYOR ACKNOWLEDGE THAT THESE ARE GIS-BASED BOUNDARIES, WHICH WILL BE FULLY SURVEYED USING STATE PLANE COORDINATES AT FINAL PLAT.
2. PER THE APPROVED DEVELOPMENT AGREEMENT, NO INTERIOR BUILDING SETBACKS ARE REQUIRED.
3. ALL STORMWATER QUALITY AND QUANTITY BMPS, OPEN SPACE, AND COMMON AREAS ARE TO BE OWNED AND MAINTAINED BY THE PROPERTY OWNER OF RECORD.
4. PROPOSED UTILITIES SHOWN ON THIS PLAN ARE PRELIMINARY AND ARE SUBJECT TO REVISIONS PER FINAL DESIGN.

* SOUTH CAROLINA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES (CGP) EXCEPTIONS AND EXEMPTIONS APPLY.

VARIANCES:

1. SUBCOLLECTOR
   1.A. RIGHT OF WAY RANGE OF 40' TO 56' IN LIEU OF 66' TO 77'.
2. RESIDENTIAL COLLECTOR
   2.A. 29-FOOT PAVEMENT WIDTH IN LIEU OF 31-FOOT PAVEMENT WIDTH FOR ONE-SIDED PARKING.
   2.B. 36-FOOT PAVEMENT WIDTH IN LIEU OF 38-FOOT PAVEMENT WIDTH FOR TWO-SIDED PARKING.
   2.C. RIGHT OF WAY RANGE OF 36' TO 100' IN LIEU OF 73' TO 80'.
3. GENERAL VARIANCES
   3.A. 6-INCH FLUSH RIBBON CURB EVERYWHERE IN LIEU OF STANDARD 18-INCH ROLL CURB. (AS DRAINAGE DICTATES)
   3.B. 6-INCH HEADER CURB EVERYWHERE IN LIEU OF STANDARD 18-INCH CURB AND GUTTER. (AS DRAINAGE DICTATES)

Parcel Table

Line #/Curve #	Length	Direction/Delta	Radius
C1	197.548	N82° 32' 27.52"W	178.854
C2	25.772	N65° 02' 46.61"W	118.000
C3	212.294	S23° 49' 53.66"E	276.000
C4	28.047	S49° 25' 20.36"E	226.000
C5	52.728	S44° 17' 46.95"E	174.000
C6	127.523	S49° 53' 08.35"E	256.017
C7	40.809	N29° 03' 02.63"W	224.000
C8	16.505	N50° 15' 36.70"W	174.000
C9	25.331	N46° 02' 17.43"W	226.000
C10	105.618	S02° 32' 54.96"E	60.000
C11	8.316	S50° 19' 49.64"E	90.000
C12	52.584	S35° 06' 24.55"E	140.000
C13	58.584	S12° 21' 31.23"E	140.000
C14	33.947	S16° 44' 13.81"E	57.897
C15	34.962	S62° 52' 11.37"E	34.242
L1	52.681	S21° 40' 01.36"W	
L2	248.000	S48° 24' 23.80"W	
L3	13.012	S74° 37' 56.43"W	
L4	22.199	N23° 05' 13.86"W	
L5	35.246	S65° 45' 25.09"W	
L6	49.260	N63° 33' 44.65"W	
L7	30.271	N58° 24' 53.84"W	
L8	16.786	N06° 31' 02.65"W	
L9	80.773	N21° 03' 16.38"W	
L10	44.801	N28° 33' 09.02"W	
L11	45.772	N15° 29' 59.14"W	
L12	26.893	N06° 31' 00.08"W	
L13	57.434	N02° 01' 07.94"E	
L14	11.849	N01° 58' 30.38"E	
L15	72.651	N22° 06' 09.69"E	
L16	241.730	N01° 58' 30.38"E	
L17	104.534	N36° 30' 02.26"W	
L18	55.658	N01° 47' 46.09"W	
L19	254.002	N88° 12' 13.91"E	
L20	135.317	S01° 47' 46.09"E	
L21	50.000	S45° 52' 01.23"E	
L22	87.367	S52° 58' 39.49"E	
L23	50.000	S35° 36' 54.40"E	
L24	55.500	N01° 47' 46.09"W	
L25	42.333	N45° 52' 01.21"W	
L26	87.367	N52° 58' 39.49"W	
L27	32.787	N35° 41' 29.92"W	
L28	32.025	S47° 52' 49.57"W	
L29	128.963	S52° 58' 39.49"E	
L30	44.915	S45° 52' 01.23"E	
L31	46.100	N88° 12' 13.91"E	

LEGEND

- EXISTING CONTOUR
- EXISTING PROPERTY LINE
- SETBACK
- PROPOSED RIGHT-OF-WAY
- PROPOSED PROPERTY LINE
- STREET CENTERLINE
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT
- BOUNDARY OF SURFACE WATER / WETLAND
- FEMA FLOODWAY
- FEMA FLOODPLAIN
- SURFACE WATER / WETLAND BUFFER
- EXISTING SANITARY SEWER — SS
- PROPOSED SANITARY SEWER — SS
- EXISTING WATER MAIN — W
- PROPOSED WATER MAIN — W
- UTILITY EASEMENT

SCALE: 1"=100'
0 50' 100' 150' 250'

HARTNESS INN PRELIMINARY SUBDIVISION PLAN 1 OF 2 . GREENVILLE, SOUTH CAROLINA

PN1017303 | 12.16.2019 | HARTNESS PLANNED DEVELOPMENT

LandDesign.

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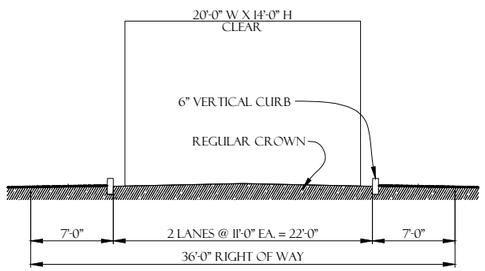
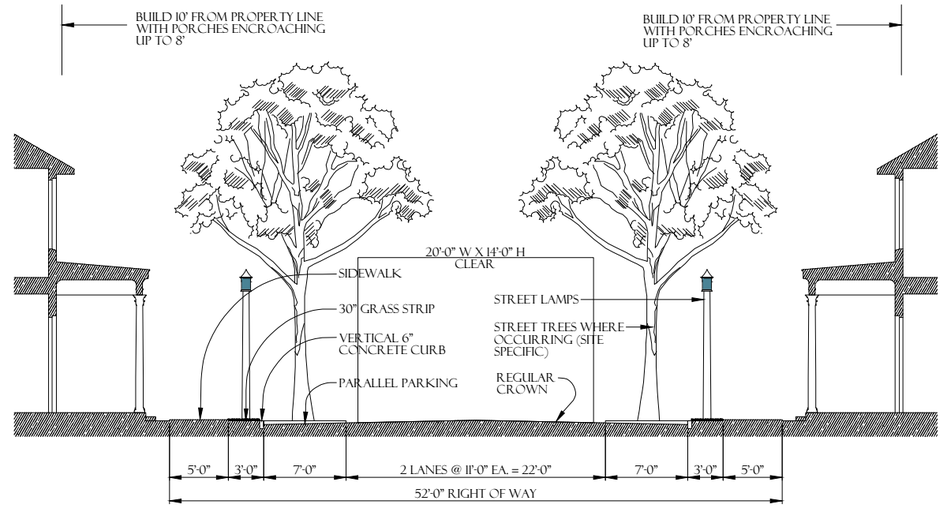
NOTE: ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



(NOT TO SCALE)

1 S.8 – CONNECTOR

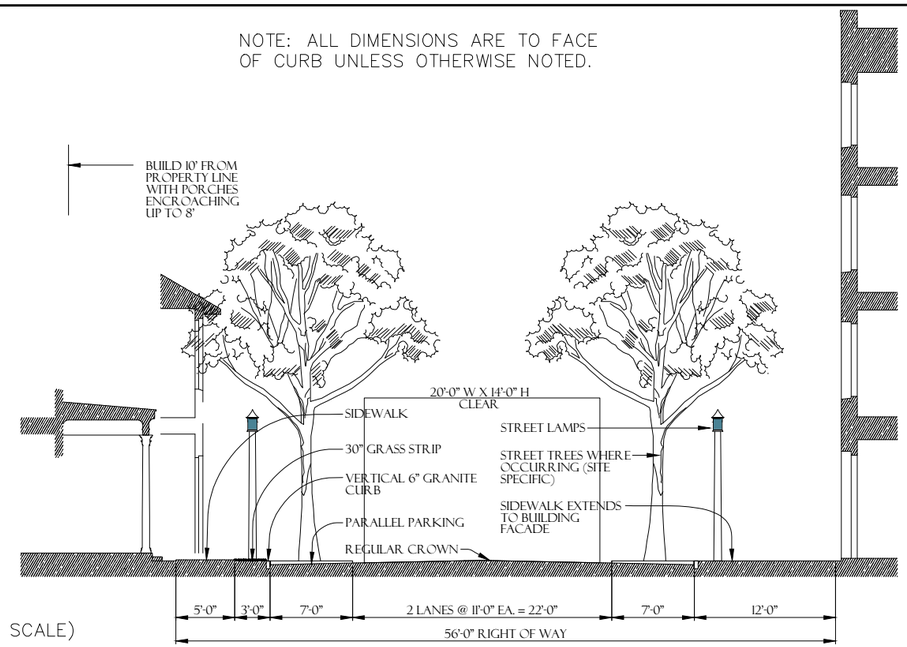


NOTE: ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

(NOT TO SCALE)

2 S.0 – RESIDENTIAL

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.



(NOT TO SCALE)

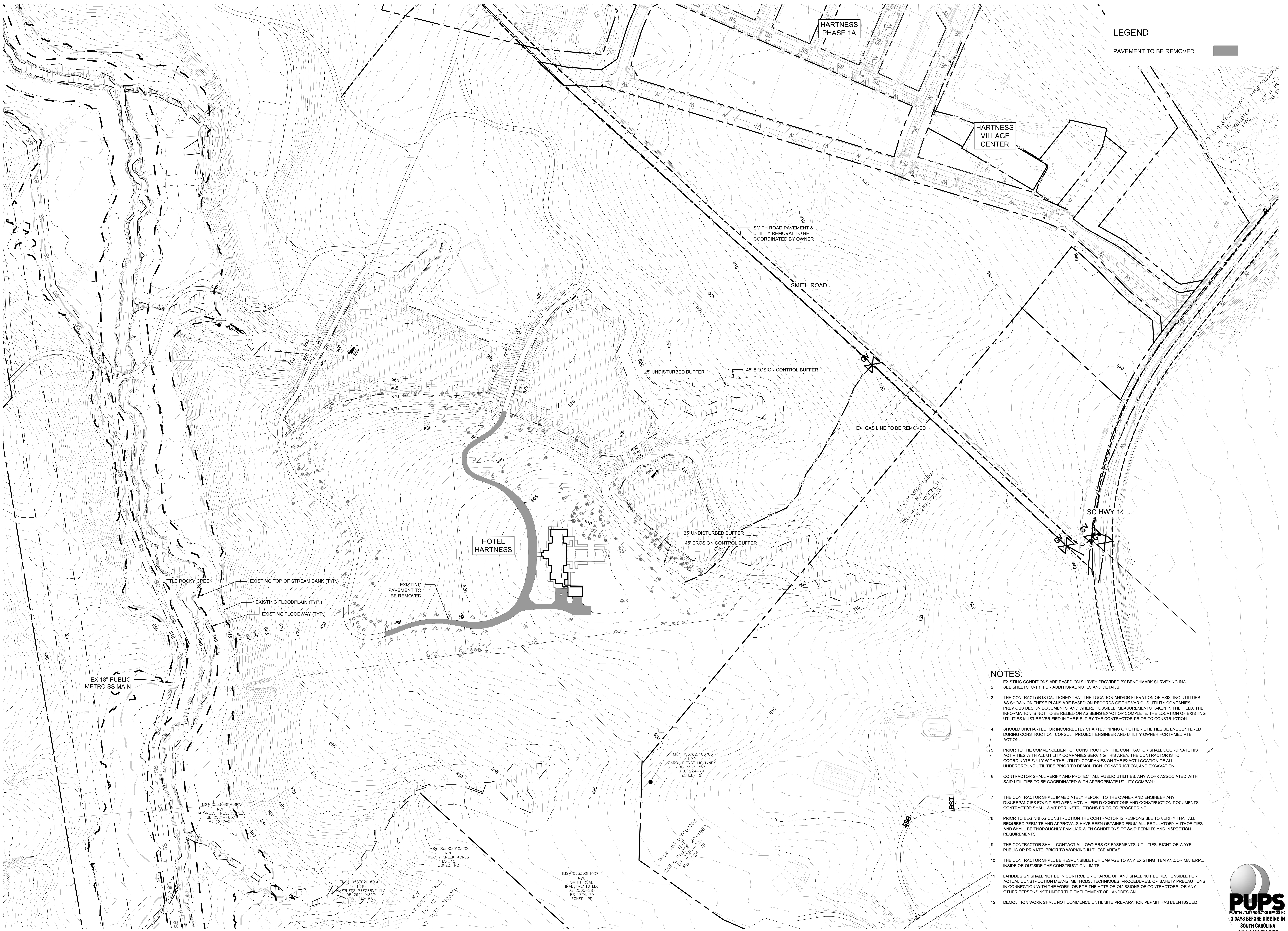
3 S.6 – TRANSITIONAL

HARTNESS INN DEVELOPMENT CROSS SECTIONS 2 OF 2 - GREENVILLE, SOUTH CAROLINA

PN1017303 | 01.29.20 | HARTNESS PLANNED DEVELOPMENT

1/30/2020 8:25 AM MFAIRCHILD N:\2017\1017303\CAD\EXHIBITS\PRELIMINARY PLANS\PRELIM PLAT.DWG

LandDesign.



NOTES:

1. EXISTING CONDITIONS ARE BASED ON SURVEY PROVIDED BY BENCHMARK SURVEYING INC.
2. SEE SHEETS C-1.1 FOR ADDITIONAL NOTES AND DETAILS.
3. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
4. SHOULD UNCHARTED, OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING CONSTRUCTION, CONSULT PROJECT ENGINEER AND UTILITY OWNER FOR IMMEDIATE ACTION.
5. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ALL UTILITY COMPANIES SERVING THIS AREA. THE CONTRACTOR IS TO COORDINATE FULLY WITH THE UTILITY COMPANIES ON THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION, CONSTRUCTION, AND EXCAVATION.
6. CONTRACTOR SHALL VERIFY AND PROTECT ALL PUBLIC UTILITIES. ANY WORK ASSOCIATED WITH SAID UTILITIES TO BE COORDINATED WITH APPROPRIATE UTILITY COMPANY.
7. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL WAIT FOR INSTRUCTIONS PRIOR TO PROCEEDING.
8. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES AND SHALL BE THOROUGHLY FAMILIAR WITH CONDITIONS OF SAID PERMITS AND INSPECTION REQUIREMENTS.
9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
11. LANDDESIGN SHALL NOT BE IN CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR ACTUAL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK, OR FOR THE ACTS OR OMISSIONS OF CONTRACTORS, OR ANY OTHER PERSONS NOT UNDER THE EMPLOYMENT OF LANDDESIGN.
12. DEMOLITION WORK SHALL NOT COMMENCE UNTIL SITE PREPARATION PERMIT HAS BEEN ISSUED.

PUPS
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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

NORTH

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C1-3

NATIONWIDE PERMIT BEING FACILITATED BY
ENVIRONMENTAL PERMITTING CONSULTANTS, INC.
CONTRACTOR SHALL NOT BEGIN ANY WORK IN THE
SPECIFIED AREA UNTIL ALL NECESSARY USACOE PERMITS
AN SCDHEC 401 CERTIFICATIONS HAVE BEEN OBTAINED.

PUPS
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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

VERT: N/A
HORZ: 1"=100'

0 50' 100' 200'

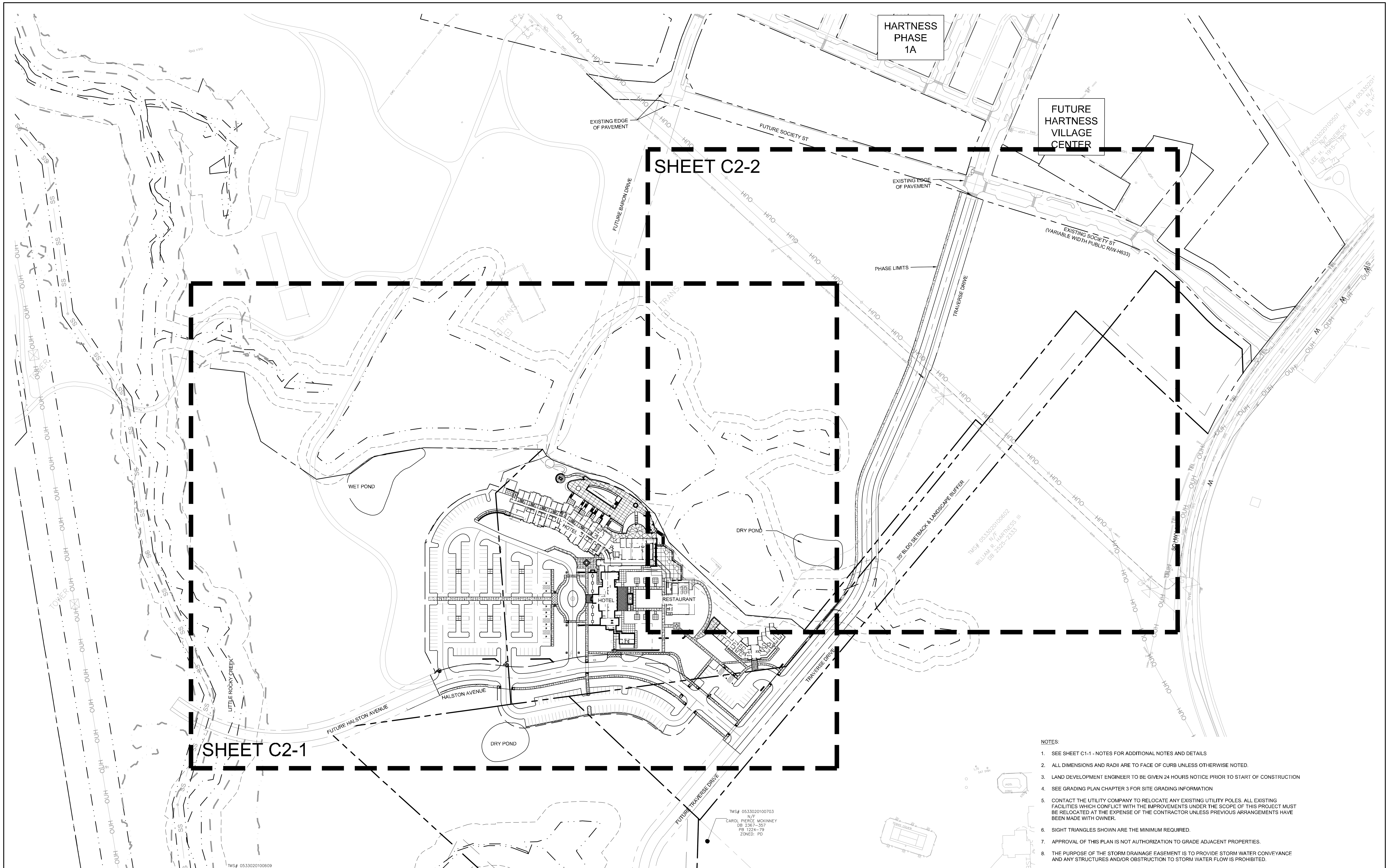
NORTH

SHEET TITLE

WETLAND IMPACTS

SHEET NUMBER

C1-4



HOTEL HARTNESS ROAD SECTIONS							
ROAD NAME	LENGTH (FT)	TRAVEL LANE WIDTH (FT)	R/W WIDTH (FT)	SECTION TYPE	STREET TYPE (COUNTY)	PUBLIC/ PRIVATE	STATIONS
TRAVERSE DRIVE	400	22	56	S.6	TRANSITIONAL	PUBLIC	0+00 - 4+00
TRAVERSE DRIVE	997	22	52	S.0	RESIDENTIAL	PUBLIC	4+00 - 14+35
HALSTON AVENUE	754	22	52	S.0	RESIDENTIAL	PUBLIC	6+35 - 13+88

NOTES:

1. SEE SHEET C1-1 - NOTES FOR ADDITIONAL NOTES AND DETAILS
2. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. LAND DEVELOPMENT ENGINEER TO BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION
4. SEE GRADING PLAN CHAPTER 3 FOR SITE GRADING INFORMATION
5. CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR UNLESS PREVIOUS ARRANGEMENTS HAVE BEEN MADE WITH OWNER.
6. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
7. APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT PROPERTIES.
8. THE PURPOSE OF THE STORM DRAINAGE EASEMENT IS TO PROVIDE STORM WATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORM WATER FLOW IS PROHIBITED.
9. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE WITH GREENVILLE COUNTY, SCDOT, AND ALL OTHER LOCAL, STATE AND FEDERAL STANDARDS AND SPECIFICATIONS.
10. ALL STREETS PROPOSED TO BE TAKEN OVER BY GREENVILLE COUNTY FOR MAINTENANCE MUST BE REVIEWED , INSPECTED, AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA AND ADEQUATE CONSTRUCTION. REVIEW OF STREET CONSTRUCTION BY THE CERTIFYING ENGINEER IS REQUIRED THROUGHOUT THE CONSTRUCTION PROCESS. REFER TO THE GREENVILLE COUNTY ENGINEERING STANDARDS AND PROCEDURES MANUALS FOR ADDITIONAL INFORMATION INCLUDING THE REQUIRED CERTIFICATION FORM.
11. ROADWAYS FOR ACCESS TO BUILDINGS, FACILITIES, OR PROPERTY SHALL BE CAPABLE OF SUPPORTING A MINIMUM OF 80,000 LBS (DOT DFR 2007) BEFORE ANY COMBUSTIBLE PRODUCTS ARE ALLOWED TO BE BROUGHT ON SITE AND BE CONSTRUCTED USING ASPHALT, CONCRETE, OR OTHER PERMITTED SURFACE AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. REFER TO STORM DRAINAGE AND UTILITY PLANS FOR LOCATION OF STORM DRAINAGE AND SANITARY SEWER EASEMENTS.
13. REFER TO TREE PROTECTION PLAN DETAILS.
14. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

NORTH

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C2-0

NOTES:

1. SEE SHEET C1-1 FOR ADDITIONAL NOTES AND DETAILS.
2. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
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6. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
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12. REFER TO STORM DRAINAGE AND UTILITY PLANS FOR LOCATION OF STORM DRAINAGE AND SANITARY SEWER EASEMENTS.
13. REFER TO TREE PROTECTION PLAN DETAILS.
14. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.
15. REFER TO ARCHITECTURE PLANS FOR ALL BUILDING PLANS AND SPECIFICATIONS.
16. REFER TO LANDSCAPE MATERIAL PLANS FOR FINAL MATERIAL TYPE AND PATTERN.
17. THE 45' EROSION CONTROL BUFFER MAY BE REDUCED WITH ADDITIONAL APPROVED EROSION CONTROL MEASURES. THE 25' UNDISTURBED BUFFER SHALL REMAIN UNDISTURBED.

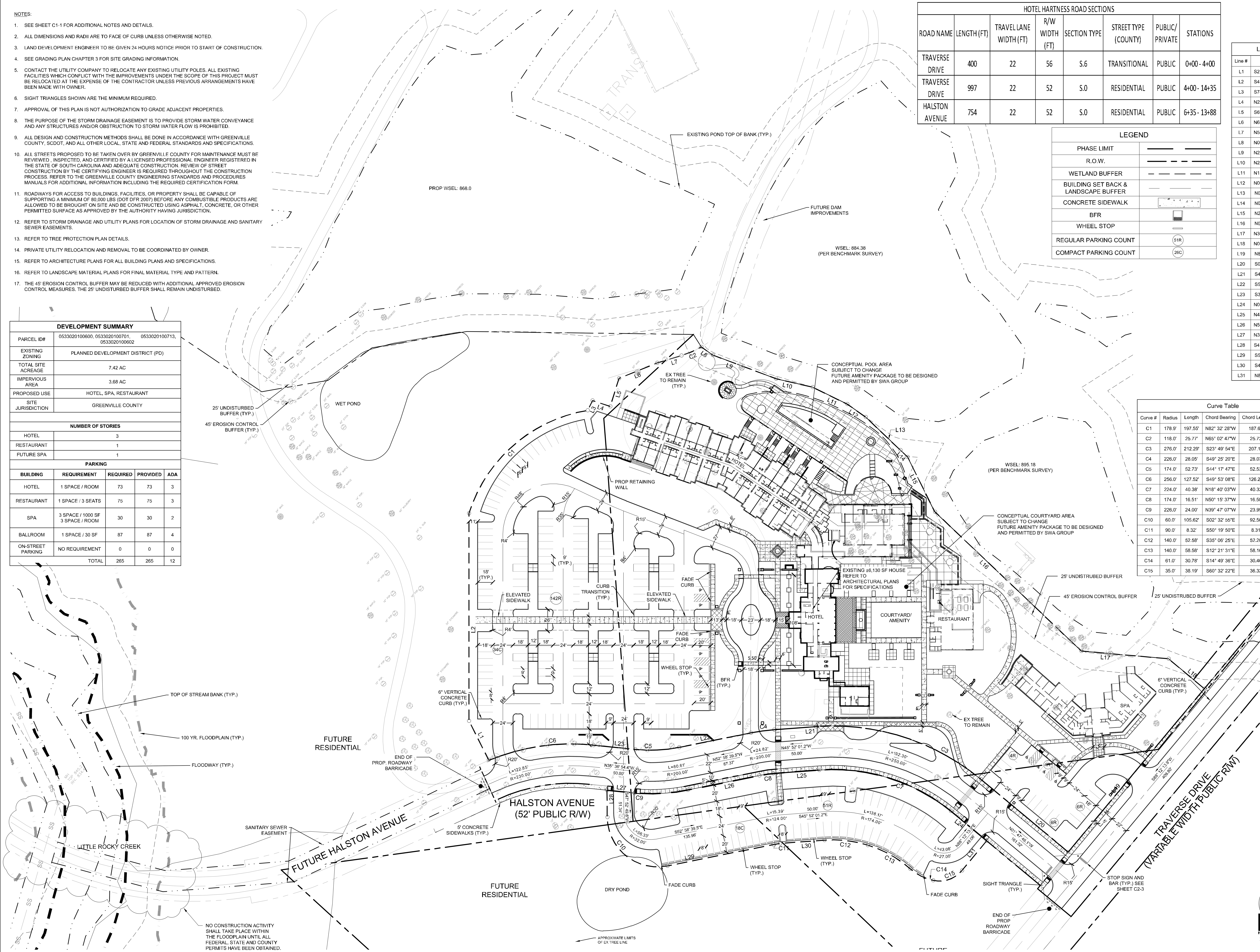
DEVELOPMENT SUMMARY				
PARCEL ID#	0533020100600, 0533020100701, 0533020100713, 0533020100602			
EXISTING ZONING	PLANNED DEVELOPMENT DISTRICT (PD)			
TOTAL SITE ACREAGE	7.42 AC			
IMPERVIOUS AREA	3.68 AC			
PROPOSED USE	HOTEL, SPA, RESTAURANT			
SITE JURISDICTION	GREENVILLE COUNTY			
NUMBER OF STORIES				
HOTEL	3			
RESTAURANT	1			
FUTURE SPA	1			
PARKING				
BUILDING	**REQUIREMENT**	**REQUIRED**	**PROVIDED**	**ADA**
HOTEL	1 SPACE / ROOM	73	73	3
RESTAURANT	1 SPACE / 3 SEATS	75	75	3
SPA	3 SPACE / 1000 SF 3 SPACE / ROOM	30	30	2
BALLROOM	1 SPACE / 30 SF	87	87	4
ON-STREET PARKING	NO REQUIREMENT	0	0	0
	TOTAL	265	265	12

HOTEL HARTNESS ROAD SECTIONS							
ROAD NAME	LENGTH (FT)	TRAVEL LANE WIDTH (FT)	R/W WIDTH (FT)	SECTION TYPE	STREET TYPE (COUNTY)	PUBLIC/ PRIVATE	STATIONS
TRAVERSE DRIVE	400	22	56	S.6	TRANSITIONAL	PUBLIC	0+00 - 4+00
TRAVERSE DRIVE	997	22	52	S.0	RESIDENTIAL	PUBLIC	4+00 - 14+35
HALSTON AVENUE	754	22	52	S.0	RESIDENTIAL	PUBLIC	6+35 - 13+88

LEGEND
PHASE LIMIT
R.O.W.
WETLAND BUFFER
BUILDING SET BACK & LANDSCAPE BUFFER
CONCRETE SIDEWALK
BFR
WHEEL STOP
REGULAR PARKING COUNT (51R)
COMPACT PARKING COUNT (26C)

Line Table		
Line #	Bearing	Length
L1	S21° 40' 01"W	52.68'
L2	S48° 24' 24"W	248.00'
L3	S74° 37' 56"W	13.01'
L4	N23° 05' 14"W	22.20'
L5	S65° 45' 25"W	35.25'
L6	N63° 33' 45"W	49.26'
L7	N58° 24' 54"W	30.27'
L8	N06° 31' 03"W	16.79'
L9	N21° 03' 16"W	80.77'
L10	N28° 33' 09"W	44.80'
L11	N15° 29' 59"W	45.77'
L12	N06° 31' 00"W	26.89'
L13	N02° 01' 08"E	57.43'
L14	N01° 58' 30"E	11.85'
L15	N22° 06' 10"E	72.65'
L16	N01° 58' 30"E	241.73'
L17	N36° 30' 02"W	104.53'
L18	N01° 47' 46"W	55.66'
L19	N88° 12' 14"E	254.00'
L20	S01° 47' 46"E	135.32'
L21	S45° 52' 01"E	50.00'
L22	S52° 58' 39"E	87.37'
L23	S35° 36' 54"E	50.00'
L24	N01° 47' 46"W	55.50'
L25	N45° 52' 01"W	42.33'
L26	N52° 58' 39"W	87.37'
L27	N35° 41' 30"W	32.79'
L28	S47° 52' 50"W	32.02'
L29	S52° 58' 39"E	128.96'
L30	S45° 52' 01"E	44.92'
L31	N88° 12' 14"E	46.10'

Curve Table					
Curve #	Radius	Length	Chord Bearing	Chord Length	Delta
C1	178.9'	197.55'	N82° 32' 28"W	187.66'	63°17'04.74"
C2	118.0'	25.77'	N65° 02' 47"W	25.72'	12°30'49.91"
C3	276.0'	212.29'	S23° 49' 54"E	207.10'	44°04'15.15"
C4	226.0'	28.05'	S49° 25' 20"E	28.03'	7°06'38.26"
C5	174.0'	52.73'	S44° 17' 47"E	52.53'	17°21'45.10"
C6	256.0'	127.52'	S49° 53' 08"E	126.21'	28°32'20.95"
C7	224.0'	40.38'	N18° 40' 03"W	40.32'	10°19'41.81"
C8	174.0'	16.51'	N50° 15' 37"W	16.50'	5°26'05.58"
C9	226.0'	24.00'	N39° 47' 07"W	23.99'	6°05'02.67"
C10	60.0'	105.62'	S02° 32' 55"E	92.50'	100°51'29.06"
C11	90.0'	8.32'	S50° 19' 50"E	8.31'	5°17'39.70"
C12	140.0'	52.58'	S35° 06' 25"E	52.28'	21°31'13.36"
C13	140.0'	58.58'	S12° 21' 31"E	58.16'	23°58'33.28"
C14	61.0'	30.78'	S14° 49' 36"E	30.46'	28°54'42.63"
C15	35.0'	38.19'	S60° 32' 22"E	36.32'	62°30'48.87"



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HARTNESS
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KEY MAP

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SEAL

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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

NORTH

SHEET TITLE

DETAILED SITE PLAN

SHEET NUMBER

C2-1

HOTEL HARTNESS ROAD SECTIONS							
ROAD NAME	LENGTH (FT)	TRAVEL LANE WIDTH (FT)	R/W WIDTH (FT)	SECTION TYPE	STREET TYPE (COUNTY)	PUBLIC/ PRIVATE	STATIONS
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TRAVERSE DRIVE	997	22	52	S.0	RESIDENTIAL	PUBLIC	4+00 - 14+35
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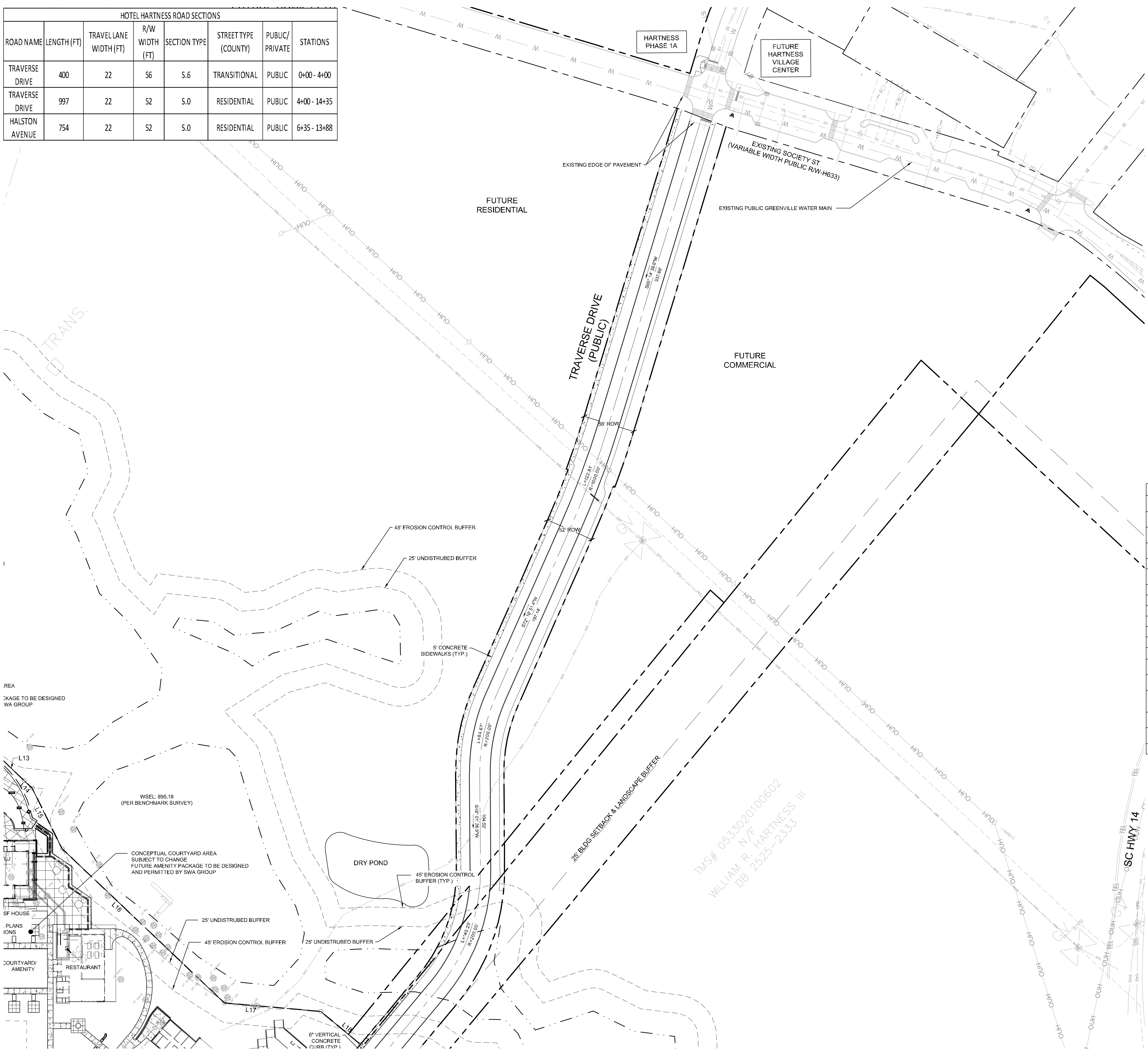

NOTES:

1. SEE SHEET C1-1 FOR ADDITIONAL NOTES AND DETAILS
2. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. LAND DEVELOPMENT ENGINEER TO BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION
4. SEE GRADING PLAN CHAPTER 3 FOR SITE GRADING INFORMATION
5. CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR UNLESS PREVIOUS ARRANGEMENTS HAVE BEEN MADE WITH OWNER.
6. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
7. APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT PROPERTIES.
8. THE PURPOSE OF THE STORM DRAINAGE EASEMENT IS TO PROVIDE STORM WATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORM WATER FLOW IS PROHIBITED.
9. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE WITH GREENVILLE COUNTY, SCDOT, AND ALL OTHER LOCAL, STATE AND FEDERAL STANDARDS AND SPECIFICATIONS.
10. ALL STREETS PROPOSED TO BE TAKEN OVER BY GREENVILLE COUNTY FOR MAINTENANCE MUST BE REVIEWED , INSPECTED, AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA AND ADEQUATE CONSTRUCTION. REVIEW OF STREET CONSTRUCTION BY THE CERTIFYING ENGINEER IS REQUIRED THROUGHOUT THE CONSTRUCTION PROCESS. REFER TO THE GREENVILLE COUNTY ENGINEERING STANDARDS AND PROCEDURES MANUALS FOR ADDITIONAL INFORMATION INCLUDING THE REQUIRED CERTIFICATION FORM.
11. ROADWAYS FOR ACCESS TO BUILDINGS, FACILITIES, OR PROPERTY SHALL BE CAPABLE OF SUPPORTING A MINIMUM OF 80,000 LBS (DOT DFR 2007) BEFORE ANY COMBUSTIBLE PRODUCTS ARE ALLOWED TO BE BROUGHT ON SITE AND BE CONSTRUCTED USING ASPHALT, CONCRETE, OR OTHER PERMITTED SURFACE AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. REFER TO STORM DRAINAGE AND UTILITY PLANS FOR LOCATION OF STORM DRAINAGE AND SANITARY SEWER EASEMENTS.
13. REFER TO TREE PROTECTION PLAN DETAILS.
14. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

LEGEND	
PHASE LIMIT	
R.O.W.	
WETLAND BUFFER	
BUILDING SET BACK & LANDSCAPE BUFFER	
CONCRETE SIDEWALK	
BFR	
WHEEL STOP	
REGULAR PARKING COUNT	51R
COMPACT PARKING COUNT	26C

Line Table		
Line #	Bearing	Length
L1	S21° 40' 01"W	52.68'
L2	S48° 24' 24"W	248.00'
L3	S74° 37' 56"W	13.01'
L4	N23° 05' 14"W	22.20'
L5	S65° 45' 25"W	35.25'
L6	N63° 33' 45"W	49.26'
L7	N58° 24' 54"W	30.27'
L8	N06° 31' 03"W	16.79'
L9	N21° 03' 16"W	80.77'
L10	N28° 33' 09"W	44.80'
L11	N15° 29' 59"W	45.77'
L12	N06° 31' 00"W	26.89'
L13	N02° 01' 08"E	57.43'
L14	N01° 58' 30"E	11.85'
L15	N22° 06' 10"E	72.65'
L16	N01° 58' 30"E	241.73'
L17	N36° 30' 02"W	104.53'
L18	N01° 47' 46"W	55.66'
L19	N88° 12' 14"E	254.00'
L20	S01° 47' 46"E	135.32'
L21	S45° 52' 01"E	50.00'
L22	S52° 58' 39"E	87.37'
L23	S35° 36' 54"E	50.00'
L24	N01° 47' 46"W	55.50'
L25	N45° 52' 01"W	42.33'
L26	N52° 58' 39"W	87.37'
L27	N35° 41' 30"W	32.79'
L28	S47° 52' 50"W	32.02'
L29	S52° 58' 39"E	128.96'
L30	S45° 52' 01"E	44.92'
L31	N88° 12' 14"E	46.10'

DEVELOPMENT SUMMARY				
PARCEL ID#	0533020100600, 0533020100701, 0533020100713, 0533020100602			
EXISTING ZONING	PLANNED DEVELOPMENT DISTRICT (PD)			
TOTAL SITE ACREAGE	7.42 AC			
IMPERVIOUS AREA	3.68 AC			
PROPOSED USE	HOTEL, SPA, RESTAURANT			
SITE JURISDICTION	GREENVILLE COUNTY			
NUMBER OF STORIES				
HOTEL	3			
RESTAURANT	1			
FUTURE SPA	1			
PARKING				
BUILDING	REQUIREMENT	REQUIRED	PROVIDED	ADA
HOTEL	1 SPACE / ROOM	73	73	3
RESTAURANT	1 SPACE / 3 SEATS	75	75	3
SPA	3 SPACE / 1000 SF 3 SPACE / ROOM	30	30	2
BALLROOM	1 SPACE / 30 SF	87	87	4
ON-STREET PARKING	NO REQUIREMENT	0	0	0
	TOTAL	265	265	12

Curve Table					
Curve #	Radius	Length	Chord Bearing	Chord Length	Delta
C1	178.9'	197.55'	N82° 32' 28"W	187.66'	63°17'04.74"
C2	118.0'	25.77'	N65° 02' 47"W	25.72'	12°30'49.91"
C3	276.0'	212.29'	S23° 49' 54"E	207.10'	44°04'15.15"
C4	226.0'	28.05'	S49° 25' 20"E	28.03'	7°06'38.26"
C5	174.0'	52.73'	S44° 17' 47"E	52.53'	17°21'45.10"
C6	256.0'	127.52'	S49° 53' 08"E	126.21'	28°32'20.95"
C7	224.0'	40.38'	N18° 40' 03"W	40.32'	10°19'41.81"
C8	174.0'	16.51'	N50° 15' 37"W	16.50'	5°26'05.58"
C9	226.0'	24.00'	N39° 47' 07"W	23.99'	6°05'02.67"
C10	60.0'	105.62'	S02° 32' 55"E	92.50'	100°51'29.06"
C11	90.0'	8.32'	S50° 19' 50"E	8.31'	5°17'39.70"
C12	140.0'	52.58'	S35° 06' 25"E	52.28'	21°31'13.36"
C13	140.0'	58.58'	S12° 21' 31"E	58.16'	23°58'33.28"
C14	61.0'	30.78'	S14° 49' 36"E	30.46'	28°54'42.63"
C15	35.0'	38.19'	S60° 32' 22"E	36.32'	62°30'48.87"

PUPS
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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

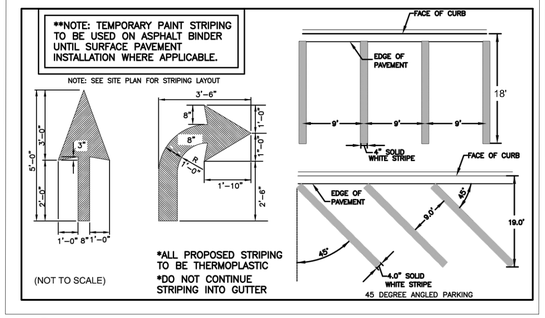
DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

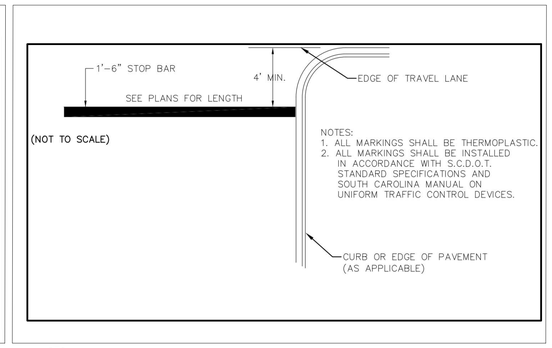
NORTH

SHEET TITLE
DETAILED SITE PLAN

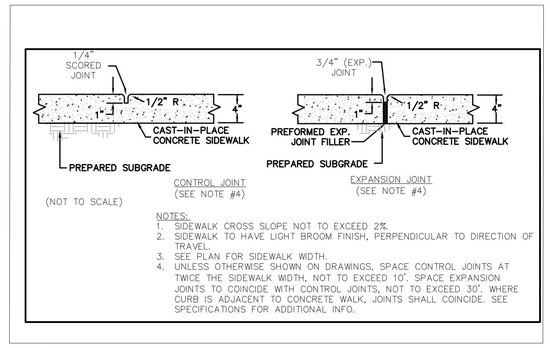
SHEET NUMBER
C2-2



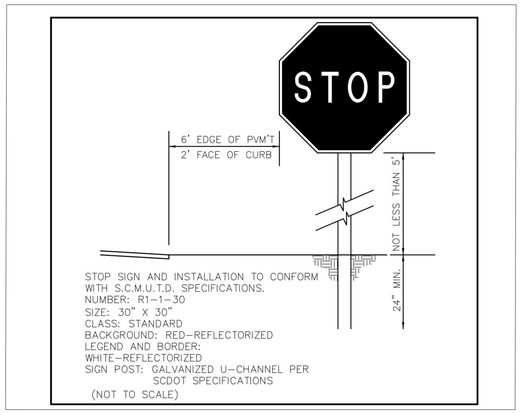
1 C2-3 TYPICAL STRIPING (NTS)



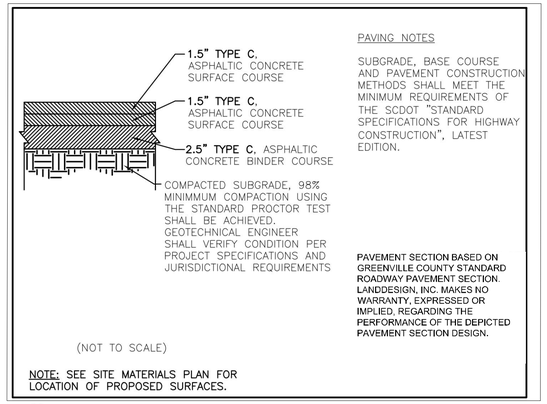
2 C2-3 STOP BAR PAVEMENT MARKING (NTS)



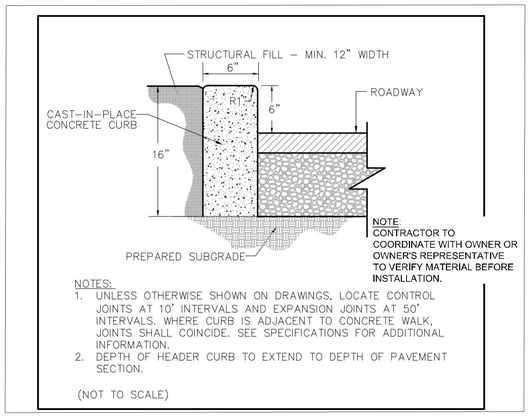
3 C2-3 SIDEWALK SECTION (NTS)



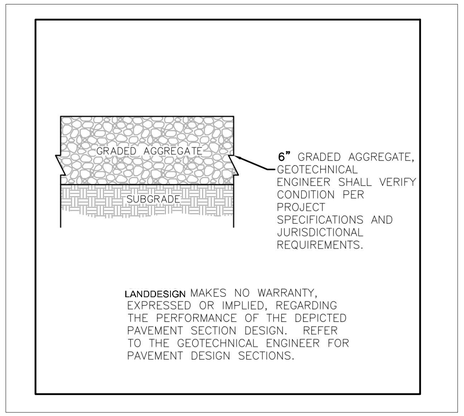
4 C2-3 STOP SIGN (NTS)



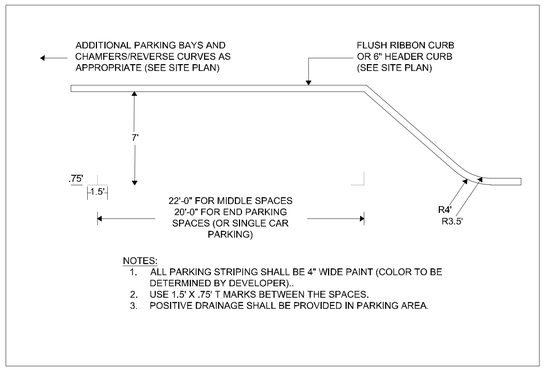
5 C2-3 ASPHALT PAVEMENT SECTION (NTS)



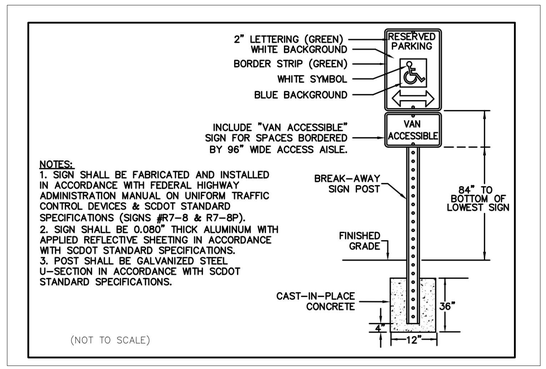
6 C2-3 6" HEADER CURB (NTS)



7 C2-3 AGGREGATE BASE SECTION (NTS)



8 C2-3 ON-STREET PARALLEL PARKING (NTS)



9 C2-3 ADA PARKING SIGN (NTS)

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HARTNESS GREENVILLE

KEY MAP

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

NORTH

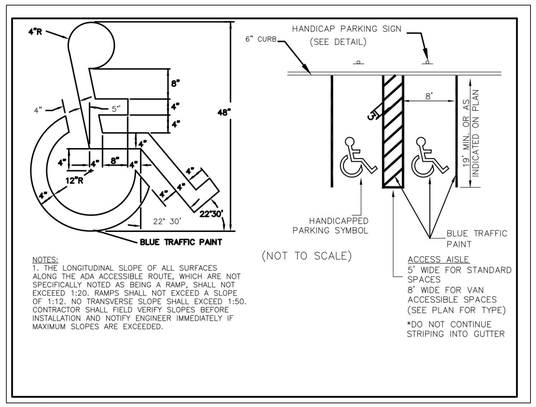
VERT: N/A
HORZ: NTS
(NOT TO SCALE)

SHEET TITLE

SITE DETAILS

SHEET NUMBER

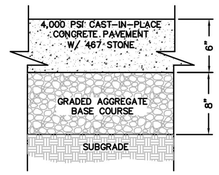
C2-3



NOTES:
1. THE LONGITUDINAL SLOPE OF ALL SURFACES ALONG THE ADA ACCESSIBLE ROUTE, WHICH ARE NOT SPECIFICALLY NOTED AS BEING A RAMP, SHALL NOT EXCEED 1:20. RAMPS SHALL NOT EXCEED A SLOPE OF 1:12. NO TRANSVERSE SLOPE SHALL EXCEED 1:50. CONTRACTOR SHALL FIELD VERIFY SLOPES BEFORE INSTALLATION AND NOTIFY ENGINEER IMMEDIATELY IF MAXIMUM SLOPES ARE EXCEEDED.

10 C2-4 ADA PARKING STRIPING (NTS)

ITEM:	MATERIAL:	SWA SPECIFICATION SECTION NAME:
SUBGRADE	–PREPARED IN–SITU SUBSOIL OR STRUCTURAL FILL	EARTH MOVING
BASE COURSE	–GRADED AGGREGATE BASE COURSE	EARTH MOVING
CONCRETE PAVEMENT	–CAST–IN–PLACE CONCRETE	CONCRETE PAVING



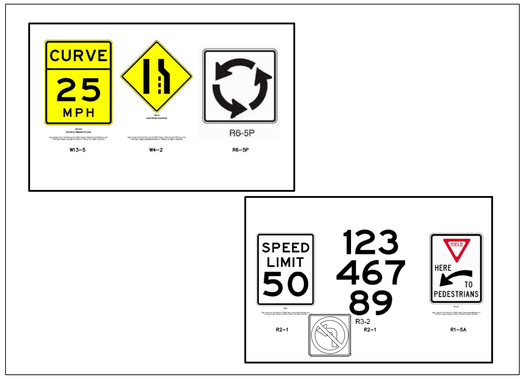
(NOT TO SCALE)

NOTE: SEE SITE MATERIALS PLAN FOR LOCATION OF PROPOSED SURFACES.

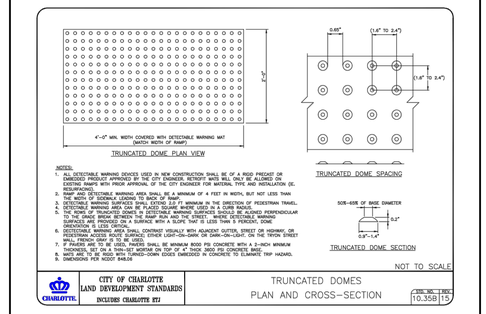
NOTES:
1. WHERE SHOWN, SEE PLAN FOR EXPANSION AND CONTROL JOINT LOCATIONS. OTHERWISE, SEE SPECS FOR REQUIRED LOCATION AND SPACING.
2. CONTRACTOR IS ADVISED THAT PAVING DESIGN RECOMMENDED BY GEOTECHNICAL ENGINEER IS BASED ON PREDICTED TRAFFIC LOADING AND ESTABLISHED STRENGTHS FOR PROPERLY INSTALLED PAVEMENTS. CONTRACTOR MUST COORDINATE REQUIRED GEOTECHNICAL TESTING & INSPECTION TO ENSURE THAT SUBGRADE AND PAVEMENT STRENGTH REQUIREMENTS ARE MET.
3. WHERE PAVEMENT JOINS GARAGE SLAB AND AT ALL EXPANSION JOINTS, INSTALL #4 DOWELS @ 18" O.C.

LANDDESIGN MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE PERFORMANCE OF THE DEPICTED PAVEMENT SECTION DESIGN. REFER TO THE GEOTECHNICAL ENGINEER FOR PAVEMENT DESIGN SECTIONS.

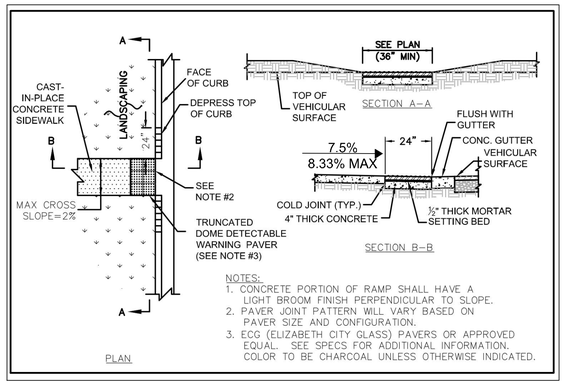
11 C2-4 HEAVY DUTY CONCRETE SECTION (NTS)



12 C2-4 STREET SIGNS (NTS)

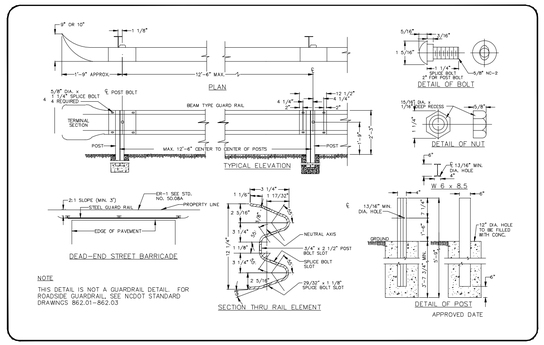


13 C2-4 TRUNCATED DOMES (NTS)



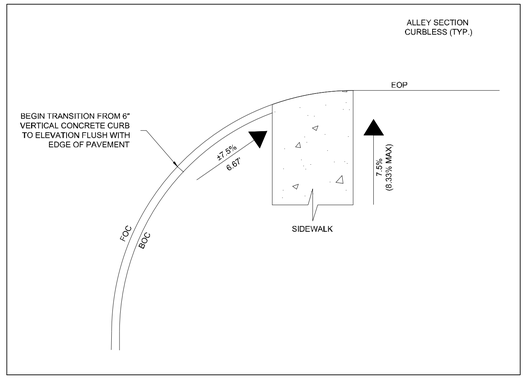
NOTES:
1. CONCRETE PORTION OF RAMP SHALL HAVE A LIGHT BROOM FINISH PERPENDICULAR TO SLOPE.
2. PAVER JOINT PATTERN WILL VARY BASED ON PAVER SIZE AND CONFIGURATION.
3. ECG (ELIZABETH CITY GLASS) PAVERS OR APPROVED EQUAL. SEE SPECS FOR ADDITIONAL INFORMATION. COLOR TO BE CHARCOAL UNLESS OTHERWISE INDICATED.

14 C2-4 SIDEWALK RAMP (NTS)

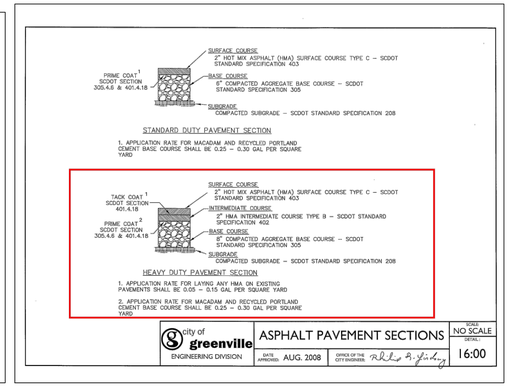


NOTE
THIS DETAIL IS NOT A GUARDRAIL DETAIL. FOR ROADSIDE GUARDRAIL, SEE NCDOT STANDARD DRAWINGS 862.01–862.03

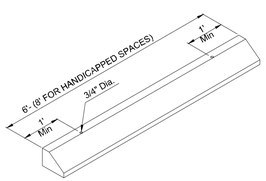
15 C2-4 END OF ROADWAY BARRICADE (NTS)

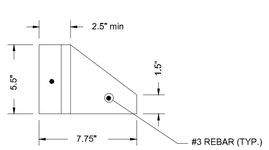


16 C2-4 CURB TRANSITION AT ADA RAMP (NTS)



17 C2-4 HEAVY DUTY ASPHALT SECTION (NTS)

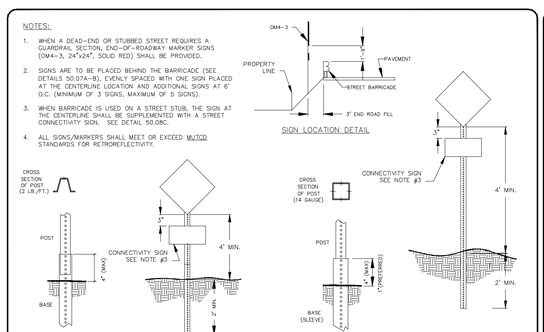




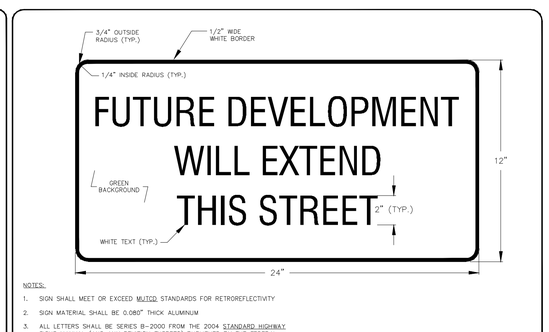
NOTE: CONCRETE TO BE 3,600 PSI

18 C2-4 WHEEL STOP
ISOMETRIC / SECTION
NOT TO SCALE

NOTES:
1. WHEN A DEAD–END OR STUBBED STREET REQUIRES A GUARDRAIL SECTION, END–OF–ROADWAY MARKER SIGNS (OM4–3, 24"x24", SOLID RED) SHALL BE PROVIDED.
2. SIGNS ARE TO BE PLACED BEHIND THE BARRICADE (SEE DETAILS 50.07A–B), EVENLY SPACED WITH ONE SIGN PLACED AT THE CENTERLINE LOCATION AND ADDITIONAL SIGNS AT 6' O.C. (MINIMUM OF 3 SIGNS, MAXIMUM OF 5 SIGNS).
3. WHEN BARRICADE IS USED ON A STREET STUB, THE SIGN AT THE CENTERLINE SHALL BE SUPPLEMENTED WITH A STREET CONNECTIVITY SIGN. SEE DETAIL 50.08C.
4. ALL SIGNS/MARKERS SHALL MEET OR EXCEED MUTCD STANDARDS FOR RETROREFLECTIVITY.



19 C2-4 END OF ROADWAY MARKER (NTS)



NOTES:
1. SIGN SHALL MEET OR EXCEED MUTCD STANDARDS FOR RETROREFLECTIVITY
2. SIGN MATERIAL SHALL BE 0.080" THICK ALUMINUM
3. ALL LETTERS SHALL BE SERIES B–2000 FROM THE 2004 STANDARD HIGHWAY SIGNS MANUAL (AND ANY REVISION THERETO) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.

20 C2-4 STREET CONNECTIVITY SIGN FOR END-OF-ROAD BARRICADE (NTS)

LandDesign.
223 NORTH GRAHAM STREET
CHARLOTTE, NC 28202
704.333.0325
WWW.LANDDESIGN.COM
SC ENG. FIRM LICENSE # C01396

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C+TC Design Studio, Inc.
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770-670-7407 | fax 770-670-9401
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP

SEAL

NOT FOR CONSTRUCTION

PROJECT:

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

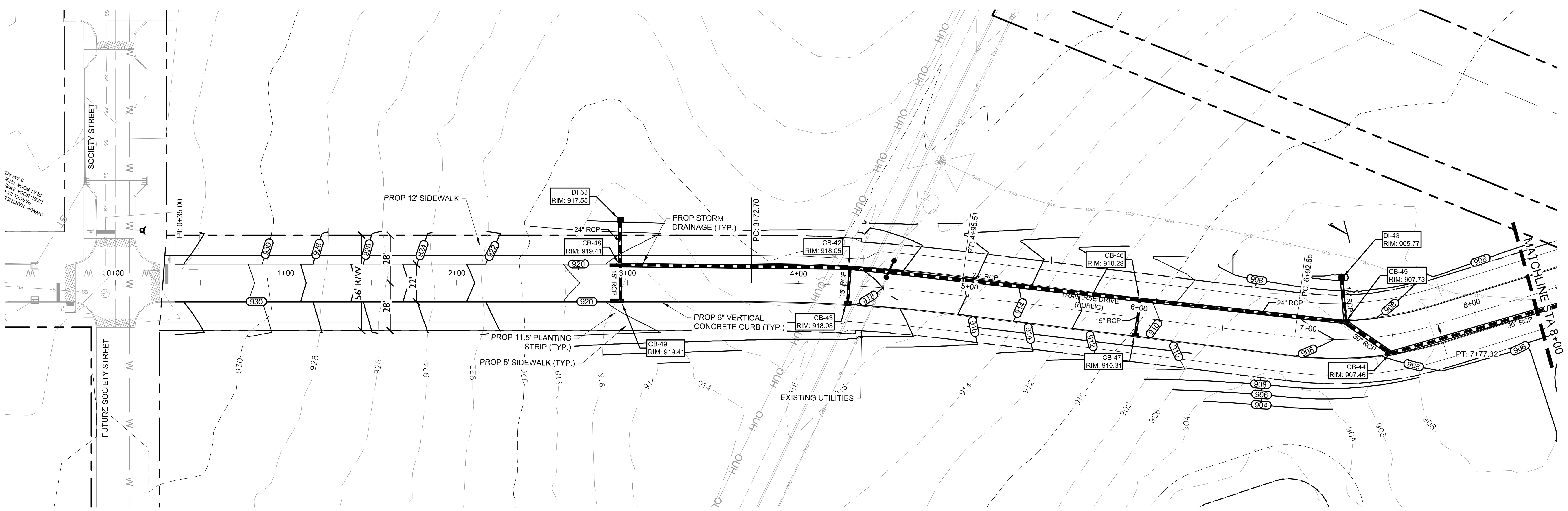
NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: NTS
(NOT TO SCALE)
NORTH

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C2-4



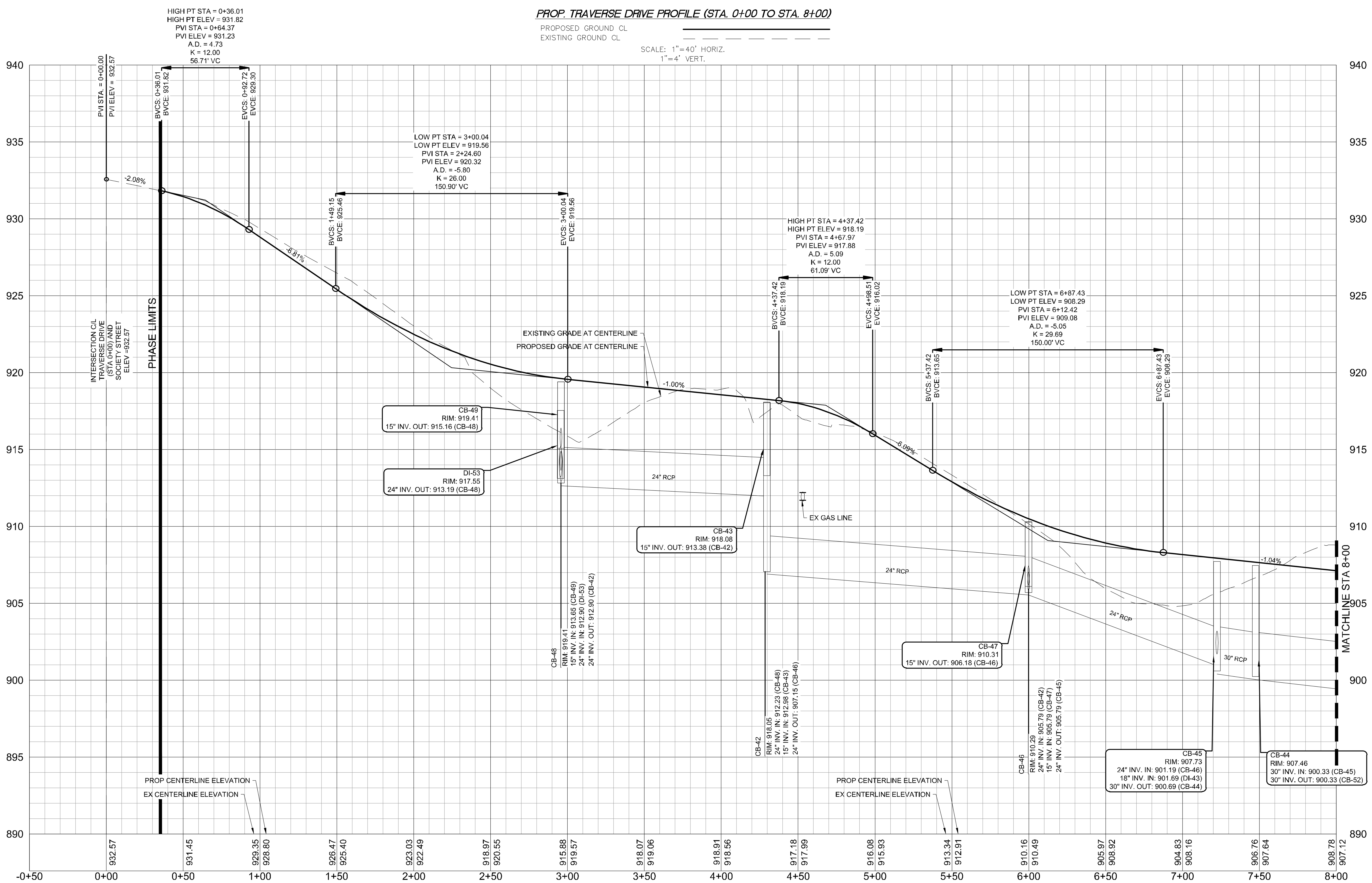
NOTES:

1. CATCH BASIN RIM ELEVATIONS ARE GIVEN TO FACE OF CURB, YARD INLETS AT FINISHED GRADE.
2. SEE SHEET C5-1 - C5-2 FOR STORM SEWER GRADES AND INVERT ELEVATIONS.
3. RIM ELEVATIONS GIVEN ON THESE PLANS ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. ACTUAL RIM ELEVATIONS SHALL BE DETERMINED BY CONTRACTOR AND ADJUSTED TO MATCH FIELD CONDITIONS.
4. COORDINATE ALL CURB AND STREET GRADES AT INTERSECTIONS WITH INSPECTOR.
5. DEVELOPER WILL PROVIDE STREET SIGNS PER GREENVILLE COUNTY STANDARDS.
6. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
7. IN ROLLING AND HILLY TERRAIN, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR BASED ON FIELD CONDITIONS.
8. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP MINIMUM OF 1.00% SLOPE ON THE CURB.
9. CURB AND GUTTER SHOWN ON PLANS MAY BE ADJUSTED BASED UPON FIELD STAKING BY COUNTY ENGINEER. ASSOCIATED STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED UPON FIELD CONDITIONS.
10. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF GREENVILLE STANDARDS AND SCODT.
11. ALL DIMENSIONS ARE FROM FACE OF CURB.
12. SEE CHAPTER 6 FOR SANITARY SEWER CONSTRUCTION.
13. ROADWAY DESIGN SPEED IS 25 MPH.
14. REFER TO TREE PROTECTION PLAN DETAILS.
15. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

PROP. TRAVERSE DRIVE PROFILE (STA. 0+00 TO STA. 8+00)

PROPOSED GROUND CL
EXISTING GROUND CL

SCALE: 1"=40' HORIZ.
1"=4' VERT.



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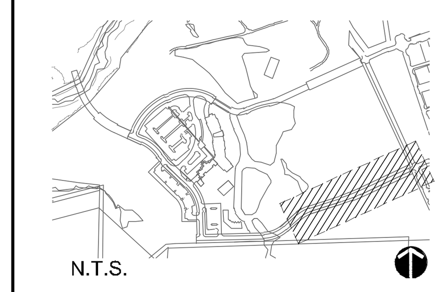
HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: 1"=4'
HORZ: 1"=40'
0 20' 40' 80'

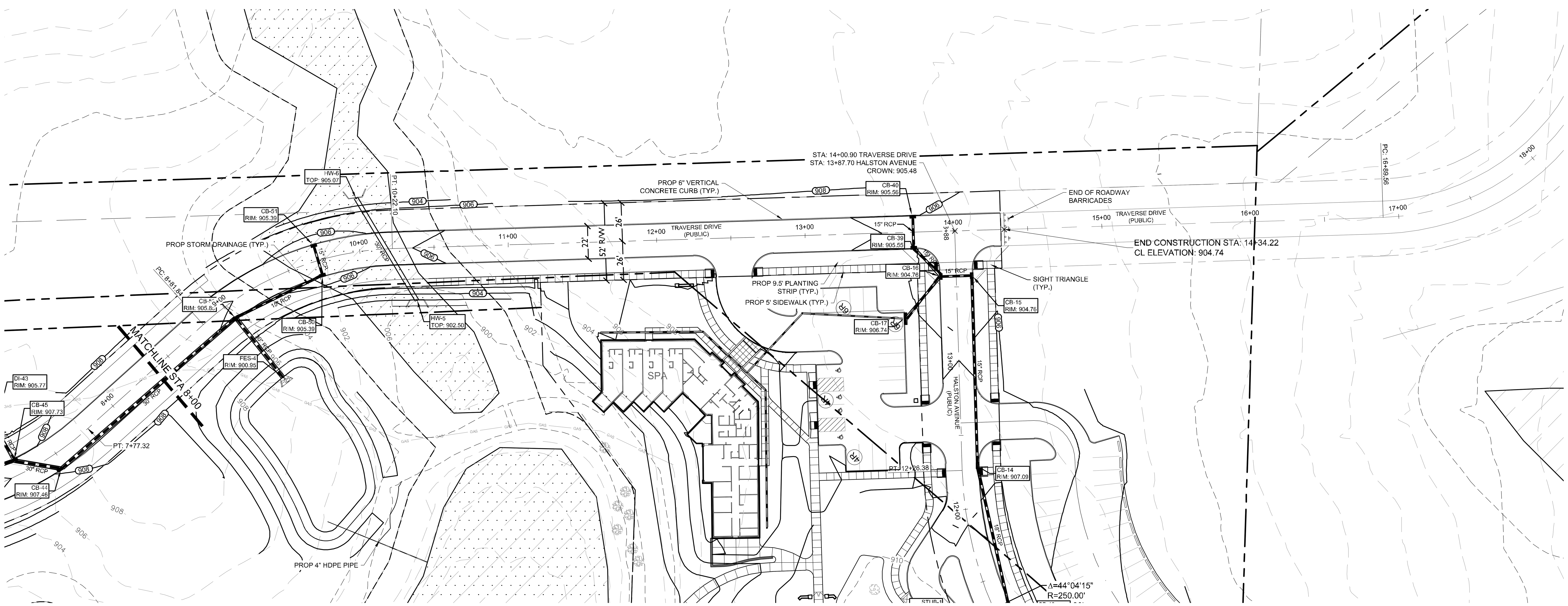
NORTH

SHEET TITLE
PLAN & PROFILE - TRAVERSE DRIVE

SHEET NUMBER
C2-5

2/3/2020 12:13 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-PAV-TRAVERSE.DWG

ORIGINAL SHEET SIZE: 24" X 36"



NOTES:

1. CATCH BASIN RIM ELEVATIONS ARE GIVEN TO FACE OF CURB, YARD INLETS AT FINISHED GRADE.
2. SEE SHEET C5-1 - C5-2 FOR STORM SEWER GRADES AND INVERT ELEVATIONS.
3. RIM ELEVATIONS GIVEN ON THESE PLANS ARE APPROXIMATE AND ARE FOR INFORMATIONAL PURPOSES ONLY. ACTUAL RIM ELEVATIONS SHALL BE DETERMINED BY CONTRACTOR AND ADJUSTED TO MATCH FIELD CONDITIONS.
4. COORDINATE ALL CURB AND STREET GRADES AT INTERSECTIONS WITH INSPECTOR.
5. DEVELOPER WILL PROVIDE STREET SIGNS PER GREENVILLE COUNTY STANDARDS.
6. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
7. IN ROLLING AND HILLY TERRAIN, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR BASED ON FIELD CONDITIONS.
8. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP MINIMUM OF 1.00% SLOPE ON THE CURB.
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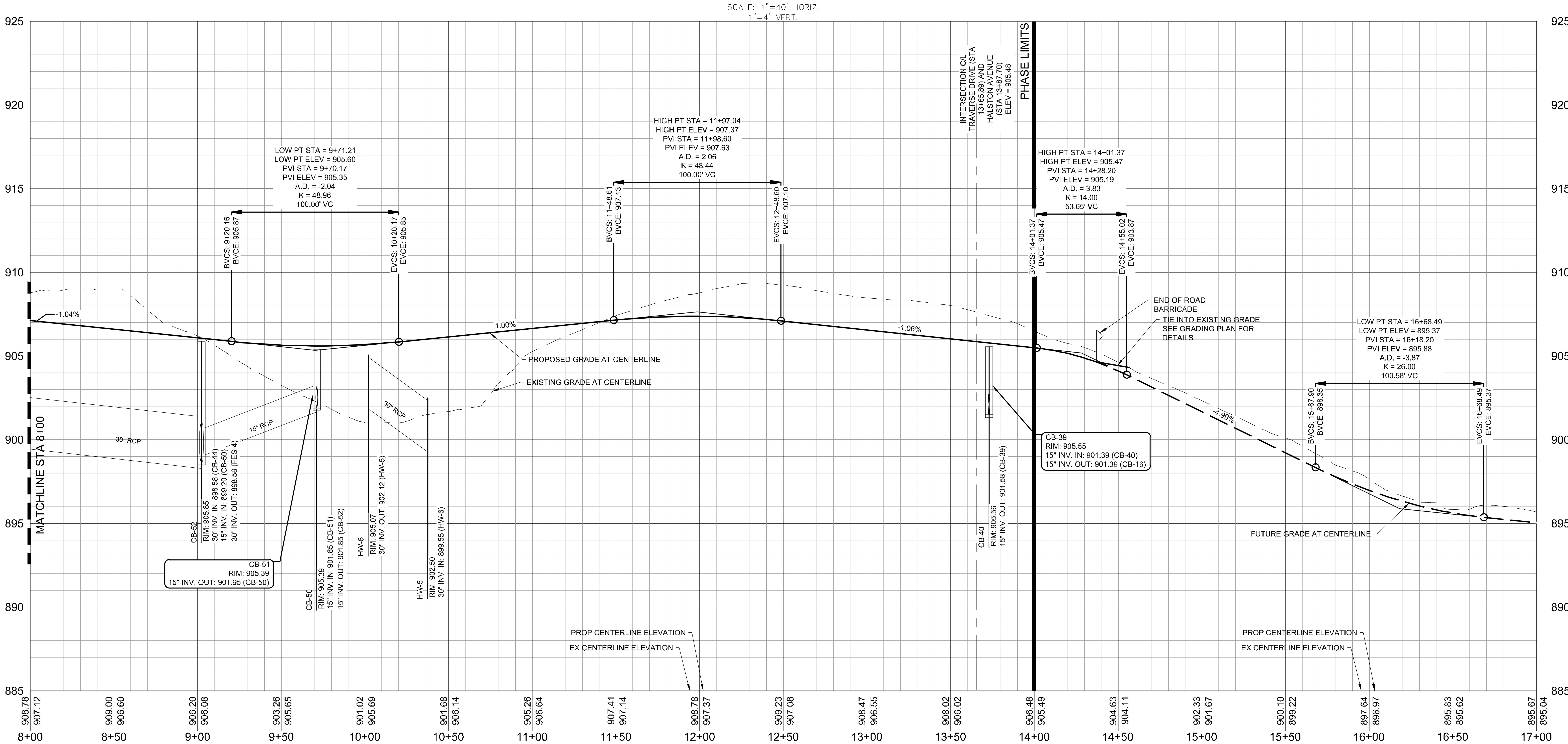
11. ALL DIMENSIONS ARE FROM FACE OF CURB.
12. SEE CHAPTER 6 FOR SANITARY SEWER CONSTRUCTION.
13. ROADWAY DESIGN SPEED IS 25 MPH.
14. REFER TO TREE PROTECTION PLAN DETAILS.
15. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

PROP. TRAVERSE DRIVE PROFILE (STA. 8+00 TO STA. 17+00)

PROPOSED GROUND CL
EXISTING GROUND CL

SCALE: 1"=40' HORIZ.
1"=4' VERT.



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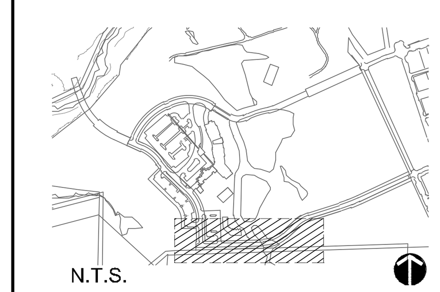
HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: 1"=4'
HORZ: 1"=40'
0 20' 40' 80'

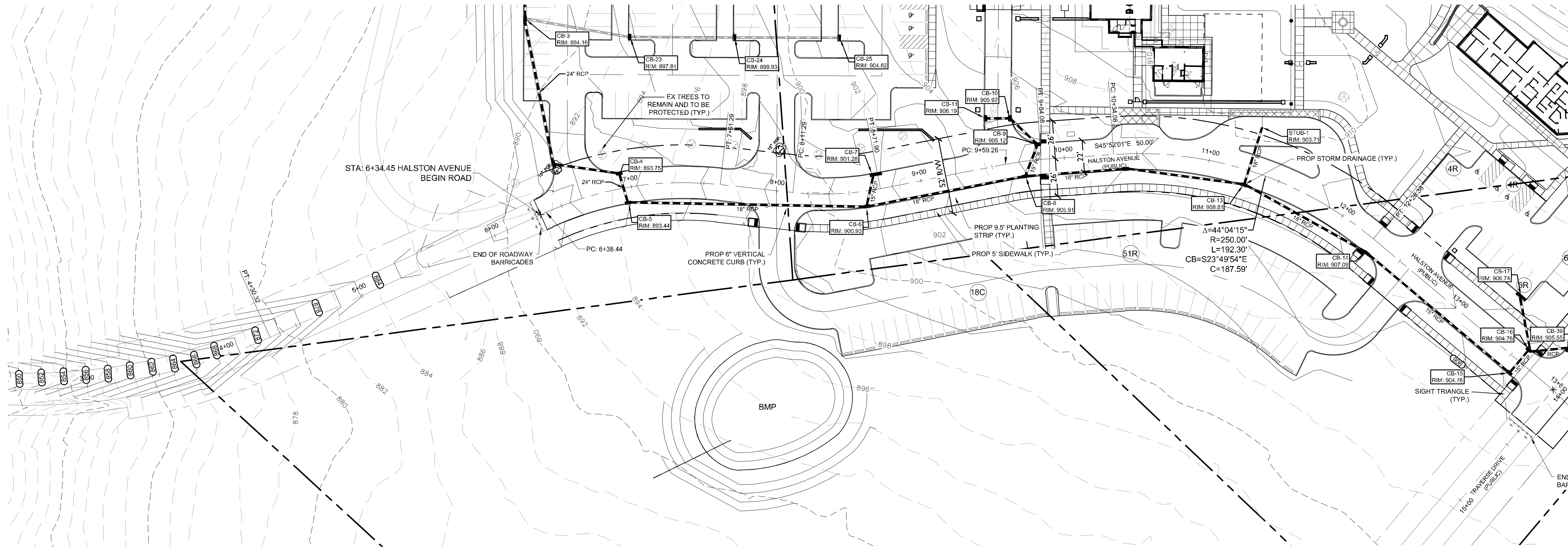
NORTH

SHEET TITLE

PLAN & PROFILE - TRAVERSE DRIVE

SHEET NUMBER

C2-6



NOTES:

1. CATCH BASIN RIM ELEVATIONS ARE GIVEN TO FACE OF CURB, YARD INLETS AT FINISHED GRADE.
2. SEE SHEET C5-1 - C5-2 FOR STORM SEWER GRADES AND INVERT ELEVATIONS.
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7. IN ROLLING AND HILLY TERRAIN, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR BASED ON FIELD CONDITIONS.
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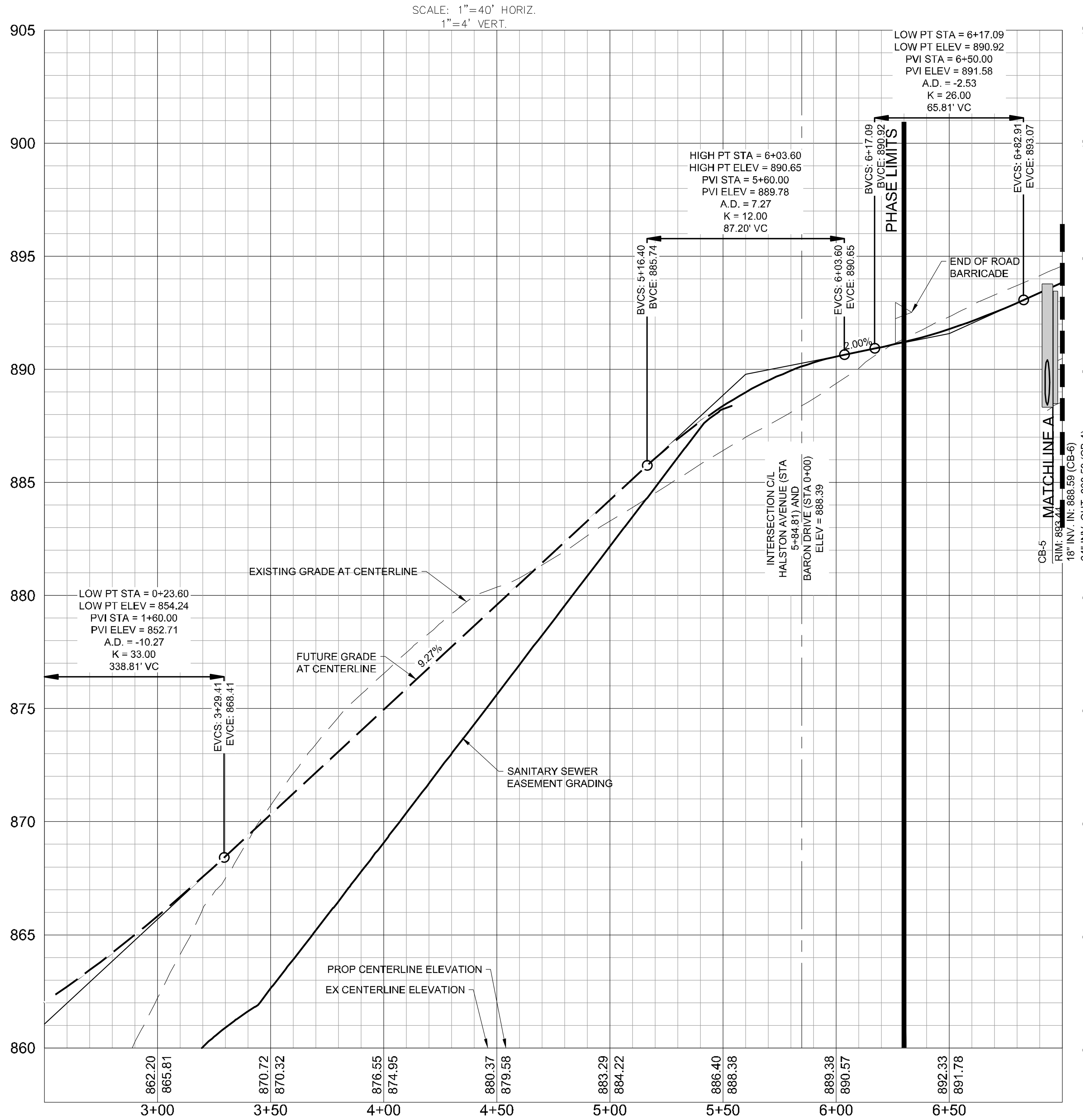
11. ALL DIMENSIONS ARE FROM FACE OF CURB.
12. SEE CHAPTER 6 FOR SANITARY SEWER CONSTRUCTION.
13. ROADWAY DESIGN SPEED IS 25 MPH.
14. REFER TO TREE PROTECTION PLAN DETAILS.
15. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

PROP. HALSTON AVENUE PROFILE (STA. 2+50 TO STA. 7+00)

PROPOSED GROUND CL
EXISTING GROUND CL

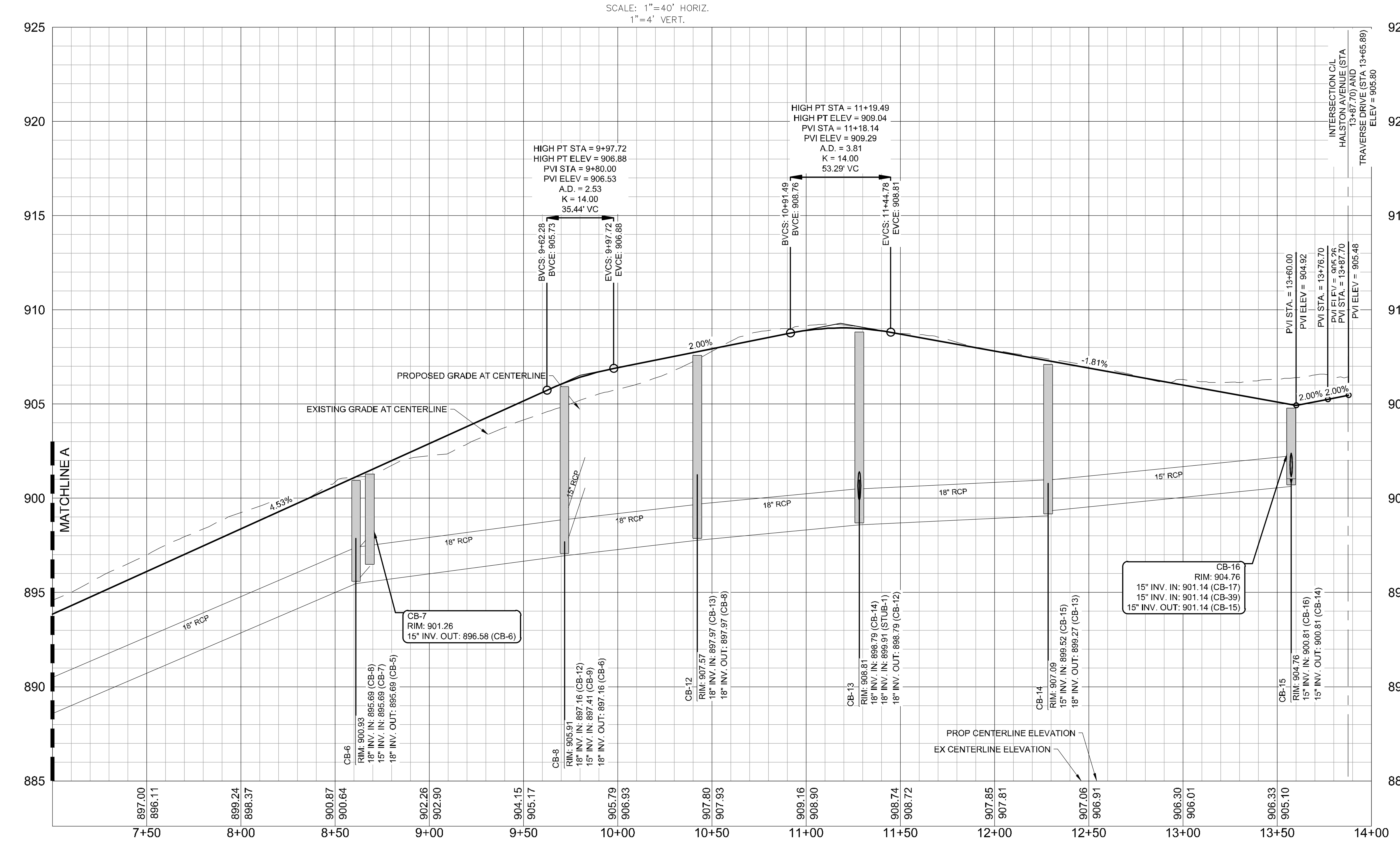
SCALE: 1"=40' HORIZ.
1"=4' VERT.



PROP. HALSTON AVENUE PROFILE (STA. 7+00 TO STA. 14+00)

PROPOSED GROUND CL
EXISTING GROUND CL

SCALE: 1"=40' HORIZ.
1"=4' VERT.



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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

VERT: 1"=4'
HORZ: 1"=40'

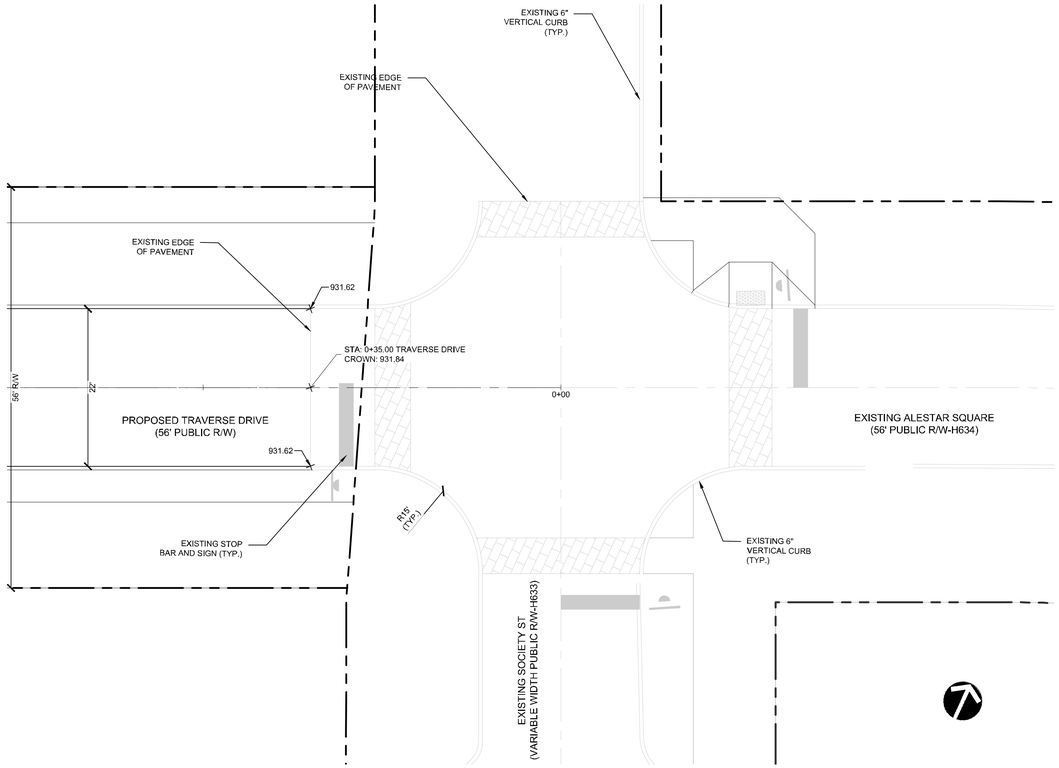
NORTH

SHEET TITLE

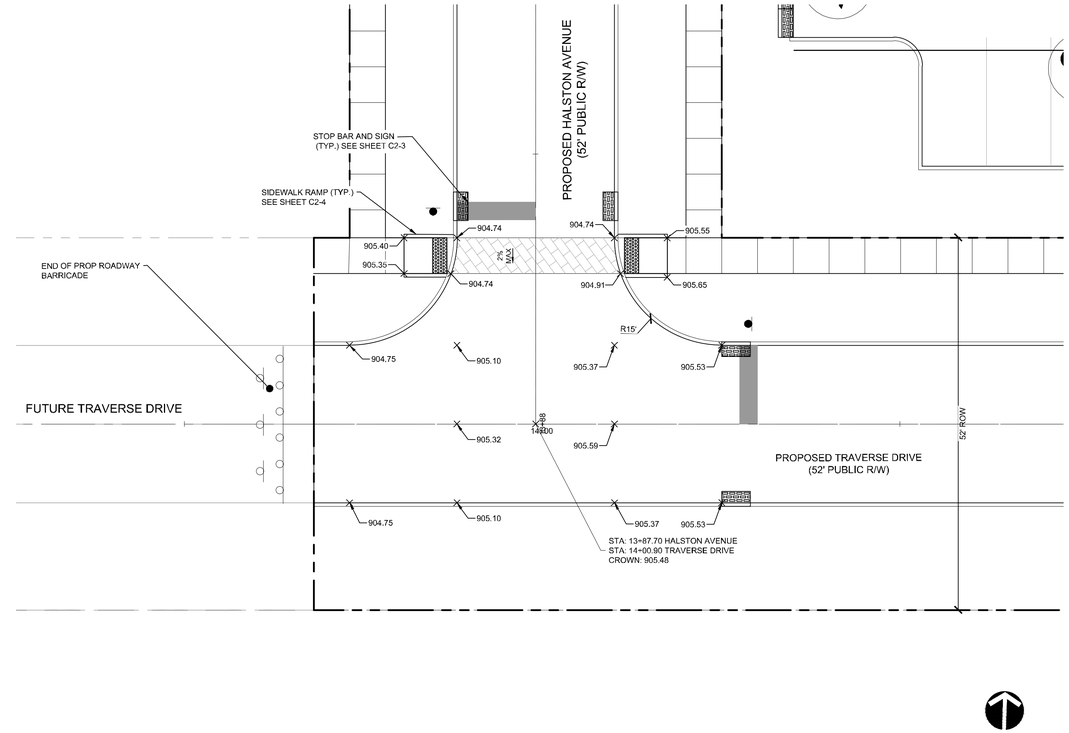
PLAN & PROFILE - HALSTON AVENUE

SHEET NUMBER

C2-7



INTERSECTION A



INTERSECTION B

INTERSECTION C

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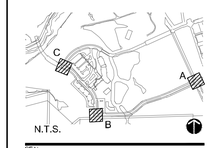
HARTNESS
GREENVILLE

KEY MAP



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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
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REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

NORTH

VERT: N/A
HORZ: 1"=10'

0 5' 10' 20'

SHEET TITLE

INTERSECTION PLAN

SHEET NUMBER

C2-8

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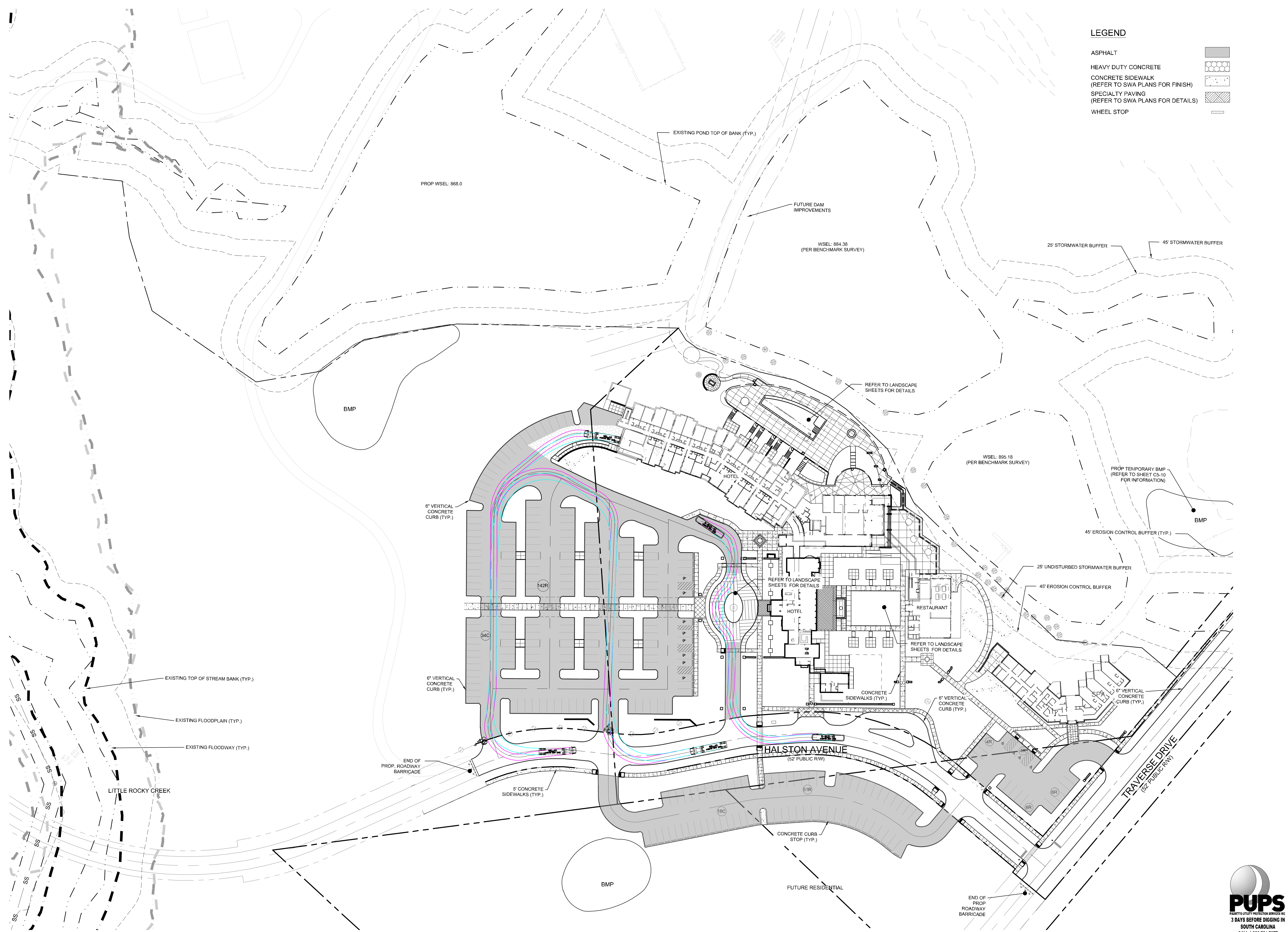

PUPS
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3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877

2/3/2020 12:21 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-PAVING PLAN.DWG

ORIGINAL SHEET SIZE: 24" X 36"

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HARTNESS
GREENVILLE

KEY MAP

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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.30.20

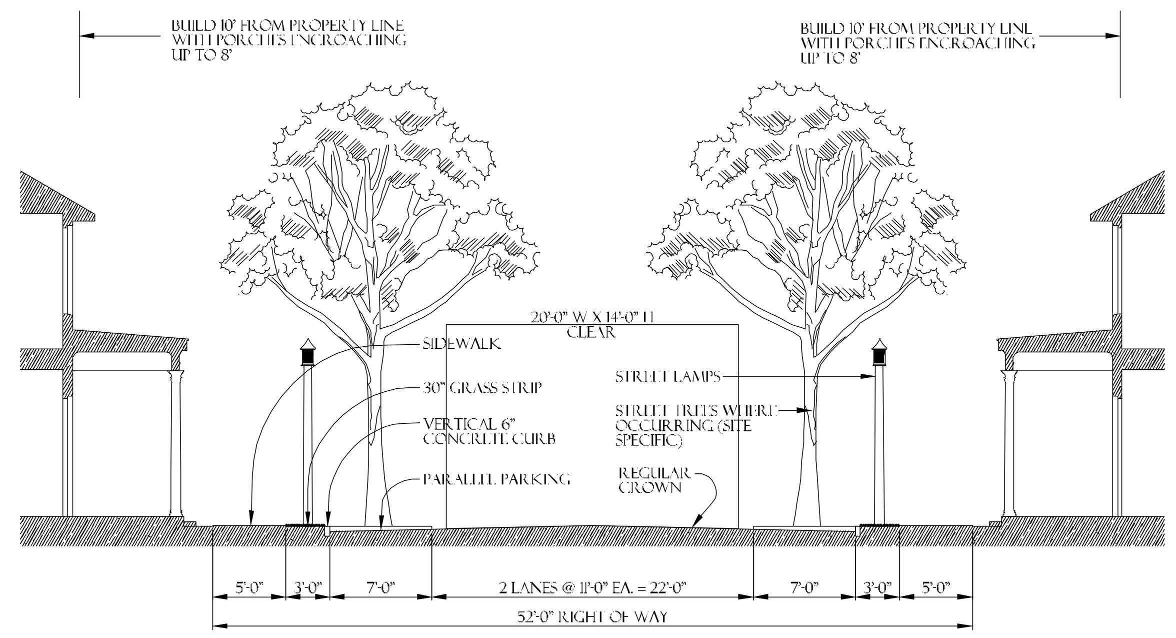
DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

NORTH

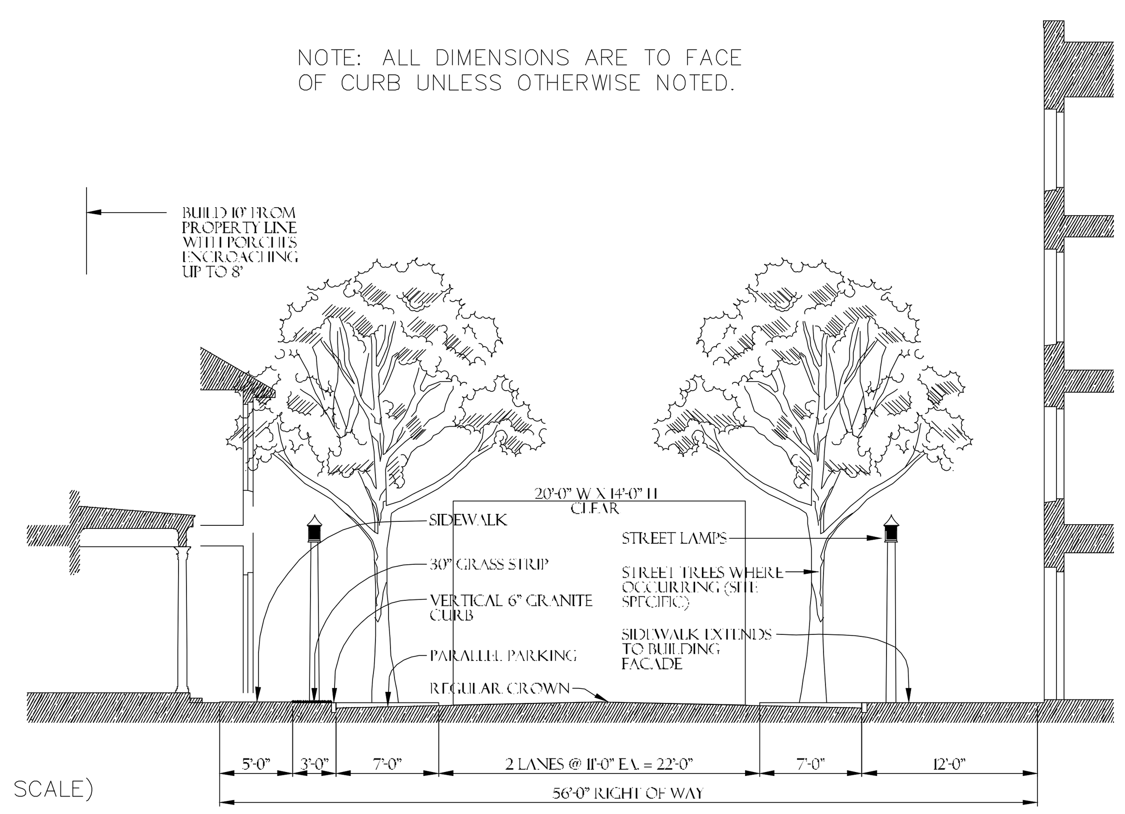
SHEET TITLE
PAVING & AUTOTURN PLAN

SHEET NUMBER
C2-9



2 S.0 – RESIDENTIAL

TRAVERSE DRIVE STA 4+00 – 14+35
HALSTON AVENUE STA 6+35 – 13+88



3 S.6 – TRANSITIONAL

TRAVERSE DRIVE STA 0+00 – 4+00

HOTEL HARTNESS ROAD SECTIONS							
ROAD NAME	LENGTH (FT)	TRAVEL LANE WIDTH (FT)	R/W WIDTH (FT)	SECTION TYPE	STREET TYPE (COUNTY)	PUBLIC/ PRIVATE	STATIONS
TRAVERSE DRIVE	400	22	56	S.6	TRANSITIONAL	PUBLIC	0+00 - 4+00
TRAVERSE DRIVE	997	22	52	S.0	RESIDENTIAL	PUBLIC	4+00 - 14+35
HALSTON AVENUE	754	22	52	S.0	RESIDENTIAL	PUBLIC	6+35 - 13+88

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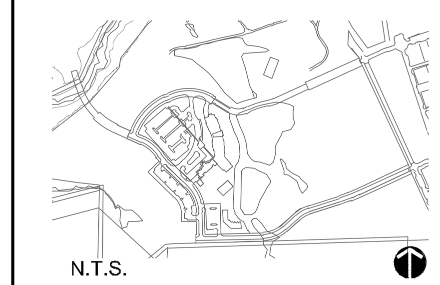
HARTNESS GREENVILLE

KEY MAP



SEAL

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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE		
NO.	DESCRIPTION	DATE
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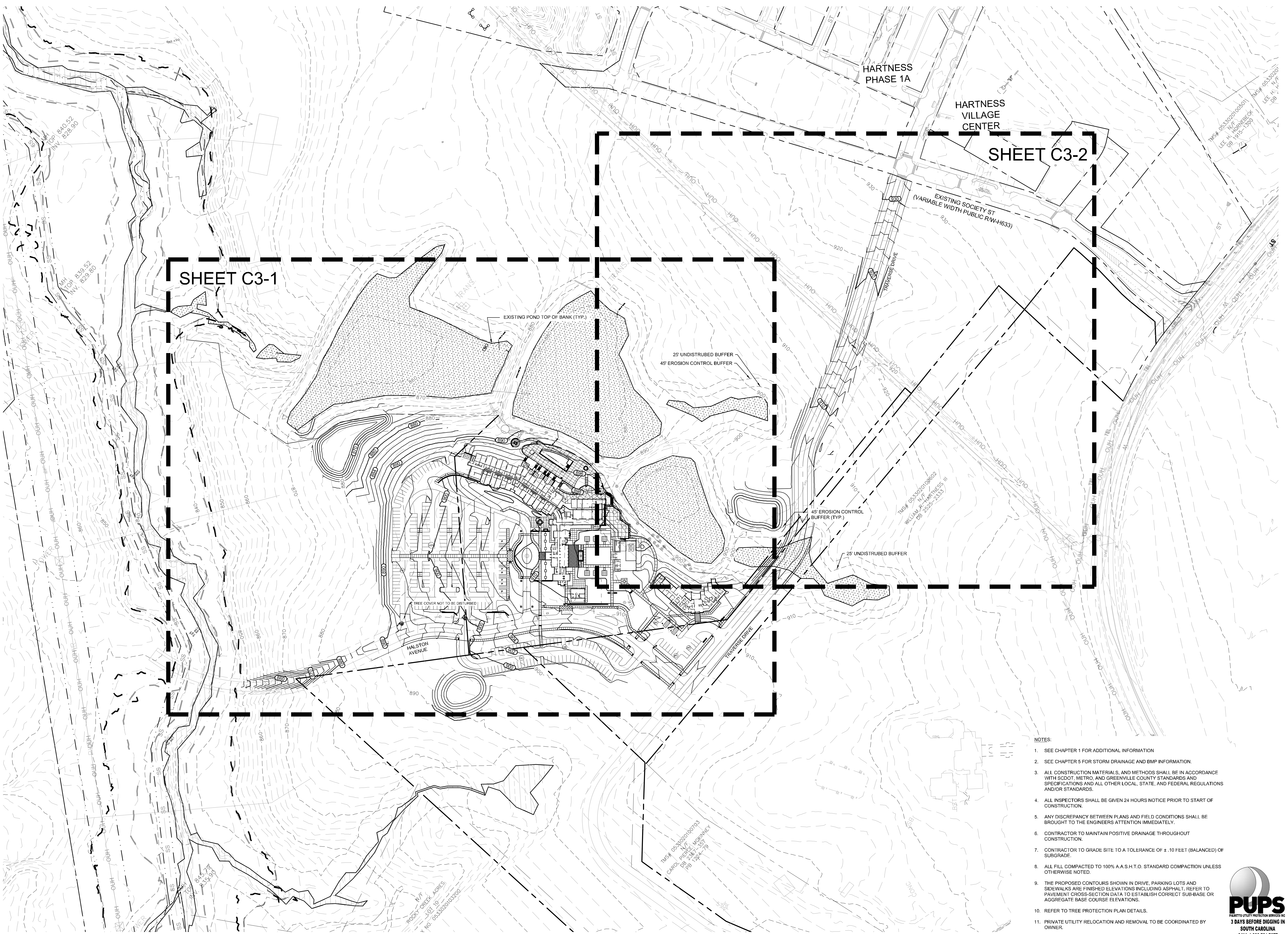
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: NTS
(NOT TO SCALE)
NORTH

SHEET TITLE
PAVING SECTIONS

SHEET NUMBER
C2-10



NOTES:

1. SEE CHAPTER 1 FOR ADDITIONAL INFORMATION
2. SEE CHAPTER 5 FOR STORM DRAINAGE AND BMP INFORMATION.
3. ALL CONSTRUCTION MATERIALS, AND METHODS SHALL BE IN ACCORDANCE WITH SCDOT, METRO, AND GREENVILLE COUNTY STANDARDS AND SPECIFICATIONS AND ALL OTHER LOCAL, STATE, AND FEDERAL REGULATIONS AND/OR STANDARDS.
4. ALL INSPECTORS SHALL BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION.
5. ANY DISCREPANCY BETWEEN PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY.
6. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
7. CONTRACTOR TO GRADE SITE TO A TOLERANCE OF ± .10 FEET (BALANCED) OF SUBGRADE.
8. ALL FILL COMPACTED TO 100% A.A.S.H.T.O. STANDARD COMPACTION UNLESS OTHERWISE NOTED.
9. THE PROPOSED CONTOURS SHOWN IN DRIVE, PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS-SECTION DATA TO ESTABLISH CORRECT SUB-BASE OR AGGREGATE BASE COURSE ELEVATIONS.
10. REFER TO TREE PROTECTION PLAN DETAILS.
11. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

PUPS
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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

NORTH

VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

SHEET TITLE

OVERALL GRADING PLAN

SHEET NUMBER

C3-0

NOTES:

1. SEE CHAPTER 1 FOR ADDITIONAL INFORMATION
2. SEE CHAPTER 5 FOR STORM DRAINAGE AND BMP INFORMATION.
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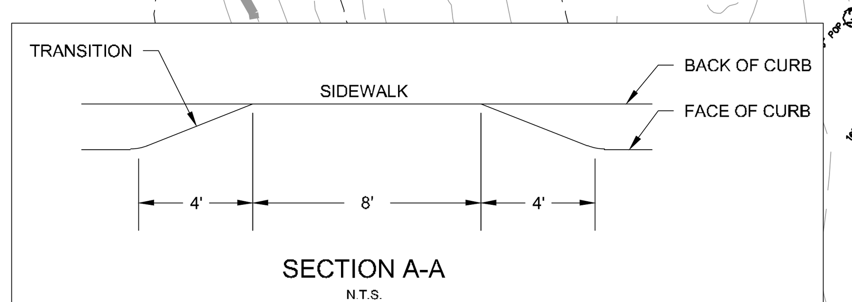
11. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

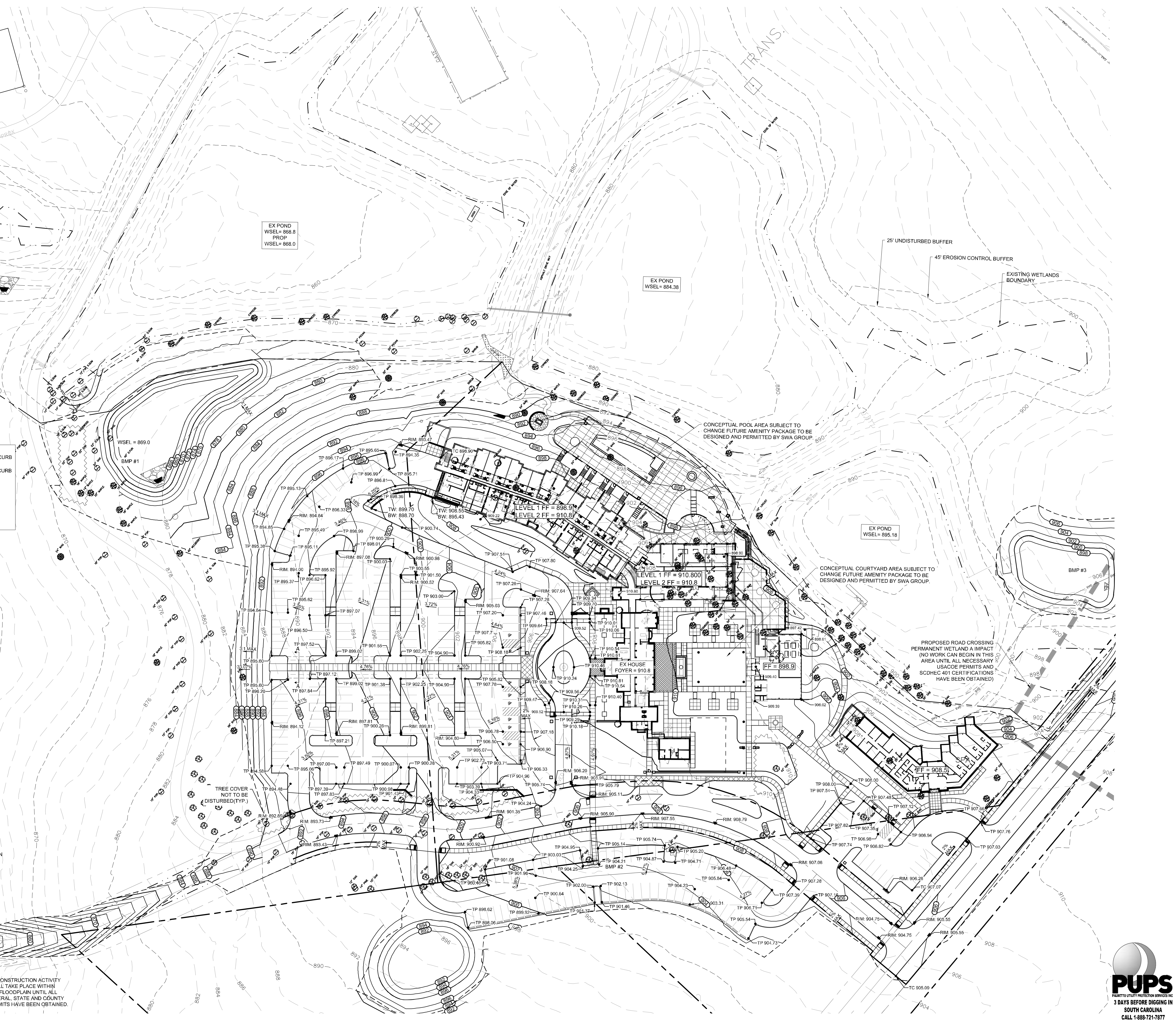
TOTAL DISTURBED AREA: 14.1 ACRES

LEGEND:

	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR
730	PROPOSED CONTOUR ELEVATION
TC 732.55	PROPOSED TOP OF CURB ELEVATION
TP 732.55	PROPOSED TOP OF PAVEMENT ELEVATION
	FLOW DIRECTION ARROW
FF: 100.00	BUILDING FINISHED FLOOR ELEVATION
	STORM SEWER
	CATCH BASIN (CB)
	DROP INLET (DI)
	LIMITS OF GRADING
	TREE PROTECTION



SECTION A-A
N.T.S.



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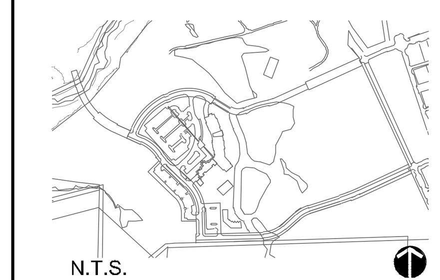
HARTNESS
GREENVILLE

KEY MAP



N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

NORTH

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C3-1

NOTES:

1. SEE CHAPTER 1 FOR ADDITIONAL INFORMATION
2. SEE CHAPTER 5 FOR STORM DRAINAGE AND BMP INFORMATION.
3. ALL CONSTRUCTION MATERIALS, AND METHODS SHALL BE IN ACCORDANCE WITH SCDOT, METRO, AND GREENVILLE COUNTY STANDARDS AND SPECIFICATIONS AND ALL OTHER LOCAL, STATE, AND FEDERAL REGULATIONS AND/OR STANDARDS.
4. ALL INSPECTORS SHALL BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION.
5. ANY DISCREPANCY BETWEEN PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY.
6. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
7. CONTRACTOR TO GRADE SITE TO A TOLERANCE OF ± .10 FEET (BALANCED) OF SUBGRADE.
8. ALL FILL COMPACTED TO 100% A.A.S.H.T.O. STANDARD COMPACTION UNLESS OTHERWISE NOTED.
9. THE PROPOSED CONTOURS SHOWN IN DRIVE, PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS-SECTION DATA TO ESTABLISH CORRECT SUB-BASE OR AGGREGATE BASE COURSE ELEVATIONS.
10. REFER TO TREE PROTECTION PLAN DETAILS.
11. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

TOTAL DISTURBED AREA: 14.1 ACRES

LEGEND:

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- (730) PROPOSED CONTOUR ELEVATION
- TC 732.55 PROPOSED TOP OF CURB ELEVATION
- TP 732.55 PROPOSED TOP OF PAVEMENT ELEVATION
- FLOW DIRECTION ARROW
- FF: 100.00 BUILDING FINISHED FLOOR ELEVATION
- STORM SEWER
- CATCH BASIN (CB)
- DROP INLET (DI)
- LIMITS OF GRADING
- TREE PROTECTION

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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

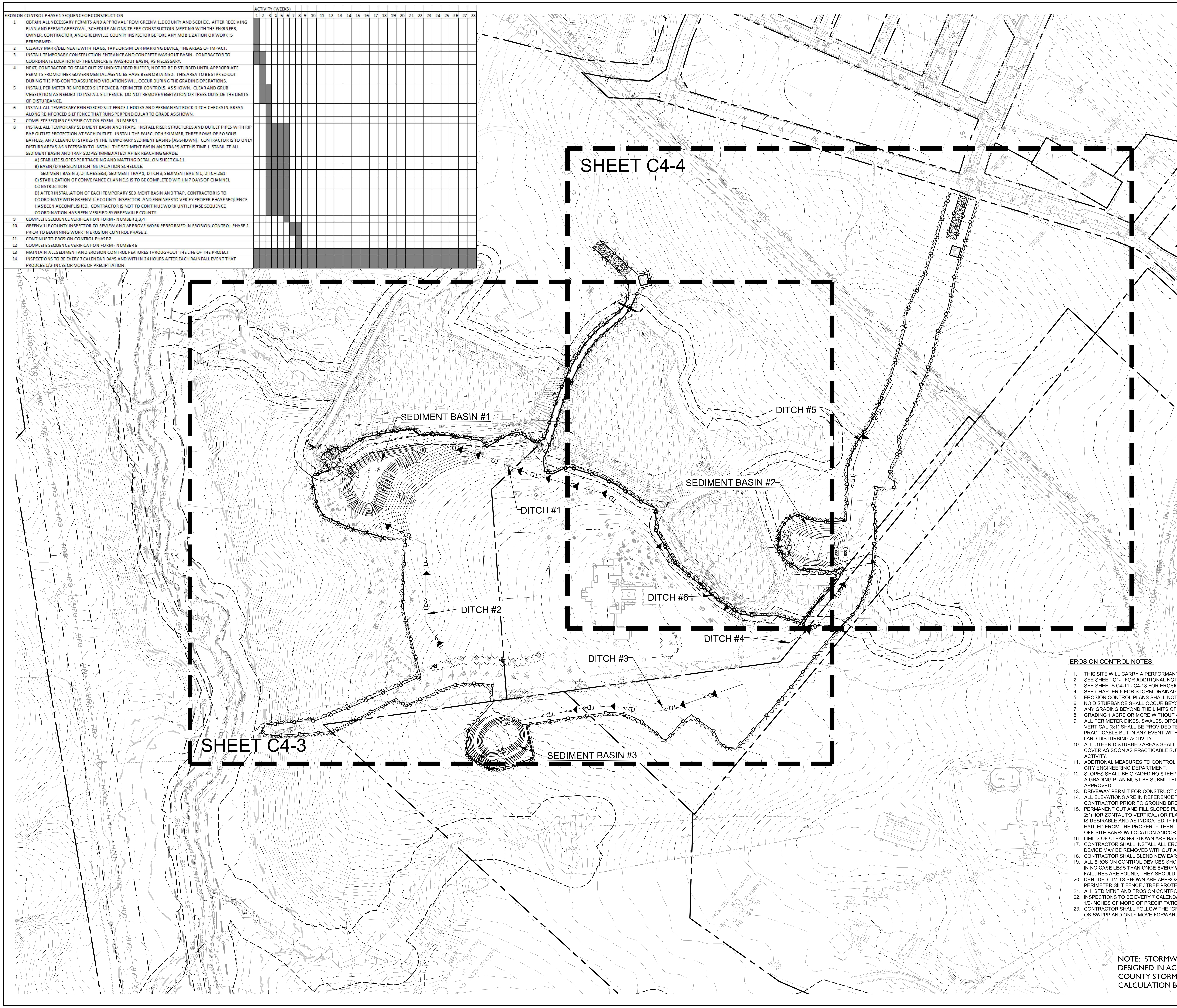
NORTH

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C3-2

	EROSION CONTROL PHASE 1 SEQUENCE OF CONSTRUCTION
1	OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GREENVILLE COUNTY AND SCDHEC. AFTER RECEIVING PLAN AND PERMIT APPROVAL, SCHEDULE AN ONSITE PRE-CONSTRUCTOIN MEETING WITH THE ENGINEER, OWNER, CONTRACTOR, AND GREENVILLE COUNTY INSPECTOR BEFORE ANY MOBILIZATION OR WORK IS PERFORMED.
2	CLEARLY MARK/DELINEATE WITH FLAGS, TAPE OR SIMILAR MARKING DEVICE, THE AREAS OF IMPACT.
3	INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT BASIN. CONTRACTOR TO COORDINATE LOCATION OF THE CONCRETE WASHOUT BASIN, AS NECESSARY.
4	NEXT, CONTRACTOR TO STAKE OUT 25' UNDISTURBED BUFFER, NOT TO BE DISTURBED UNTIL APPROPRIATE PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVE BEEN OBTAINED. THIS AREA TO BE STAKED OUT DURING THE PRE-CON TO ASSURE NO VIOLATIONS WILL OCCUR DURING THE GRADING OPERATIONS.
5	INSTALL PERIMETER REINFORCED SILT FENCE & PERIMETER CONTROLS, AS SHOWN. CLEAR AND GRUB VEGETATION AS NEEDED TO INSTALL SILT FENCE. DO NOT REMOVE VEGETATION OR TREES OUTSIDE THE LIMITS OF DISTURBANCE.
6	INSTALL ALL TEMPORARY REINFORCED SILT FENCE J-HOOKS AND PERMANENT ROCK DITCH CHECKS IN AREAS ALONG REINFORCED SILT FENCE THAT RUNS PERPENDICULAR TO GRADE AS SHOWN.
7	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 1.
8	INSTALL ALL TEMPORARY SEDIMENT BASIN AND TRAPS. INSTALL RISER STRUCTURES AND OUTLET PIPES WITH RIP RAP OUTLET PROTECTION AT EACH OUTLET. INSTALL THE FAIRCLOTH SKIMMER, THREE ROWS OF POROUS BAFFLES, AND CLEANOUT STAKES IN THE TEMPORARY SEDIMENT BASINS (AS SHOWN). CONTRACTOR IS TO ONLY DISTURB AREAS AS NECESSARY TO INSTALL THE SEDIMENT BASIN AND TRAPS AT THIS TIME.L STABILIZE ALL SEDIMENT BASIN AND TRAP SLOPES IMMEDIATELY AFTER REACHING GRADE.
	A) STABILIZE SLOPES PER TRACKING AND MATTING DETAIL ON SHEET C4-11.
	B) BASIN/DIVERSION DITCH INSTALLATION SCHEDULE:
	SEDIMENT BASIN 2; DITCHES 5&4; SEDIMENT TRAP 1; DITCH 3; SEDIMENT BASIN 1; DITCH 2&1
	C) STABILIZATION OF CONVEYANCE CHANNELS IS TO BE COMPLETED WITHIN 7 DAYS OF CHANNEL CONSTRUCTION
	D) AFTER INSTALLATION OF EACH TEMPORARY SEDIMENT BASIN AND TRAP, CONTRACTOR IS TO COORDINATE WITH GREENVILLE COUNTY INSPECTOR AND ENGINEERTO VERIFY PROPER PHASE SEQUENCE HAS BEEN ACCOMPLISHED. CONTRACTOR IS NOT TO CONTINUE WORK UNTIL PHASE SEQUENCE COORDINATION HAS BEEN VERIFIED BY GREENVILLE COUNTY.
9	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 2,3,4
10	GREENVILLE COUNTY INSPECTOR TO REVIEW AND APPROVE WORK PERFORMED IN EROSION CONTROL PHASE 1 PRIOR TO BEGINNING WORK IN EROSION CONTROL PHASE 2.
11	CONTINUE TO EROSION CONTROL PHASE 2.
12	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 5
13	MAINTAIN ALL SEDIMENT AND EROSION CONTROL FEATURES THROUGHOUT THE LIFE OF THE PROJECT
14	INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODCES 1/2-INCES OR MORE OF PRECIPITATION.

ACTIVITY (WEEKS): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28



LEGEND:

- PROPOSED INLET PROTECTION
- CHECK DAM [GREENVILLE COUNTY SC-04]
- REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]
- BAFFLES [GREENVILLE COUNTY SC-11]
- TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B]
- DENUDED LIMITS
- CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]
- TREE PROTECTION FENCING

TOTAL DENUDED AREA: 14.20 ACRES

EROSION CONTROL NOTES:

1. THIS SITE WILL CARRY A PERFORMANCE RESERVATION (CRITICAL WATERSHED REQUIREMENT).
2. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
3. SEE SHEETS C4-11 - C4-13 FOR EROSION CONTROL NOTES AND DETAILS.
4. SEE CHAPTER 5 FOR STORM DRAINAGE INFORMATION.
5. EROSION CONTROL PLANS SHALL NOT BE USED FOR FINAL GRADING. SEE CHAPTER 3 FOR GRADING INFORMATION.
6. NO DISTURBANCE SHALL OCCUR BEYOND DENUDED LIMITS / PROPERTY LINE.
7. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
8. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
9. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 5 (CRITICAL WATERSHED) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
10. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
11. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
13. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
14. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
15. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1(HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BARROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
16. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
18. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
19. ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" OF DEPTH. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
20. DENUDED LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CLEAR ONLY WHAT IS NECESSARY TO INSTALL PERIMETER SILT FENCE / TREE PROTECTION FENCING.
21. ALL SEDIMENT AND EROSION CONTROL FEATURES SHOULD BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
22. INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OF MORE OF PRECIPITATION.
23. CONTRACTOR SHALL FOLLOW THE "GREENVILLE COUNTY PHASE - SEQUENCE VERIFICATION FORM" KEPT WITH THE OS-SWPPP AND ONLY MOVE FORWARD WITH PROCESS AFTER REQUIRED VERIFICATION.

NOTE: STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.

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GREENVILLE

KEY MAP

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PROJECT

HOTEL HARTNESS

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GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

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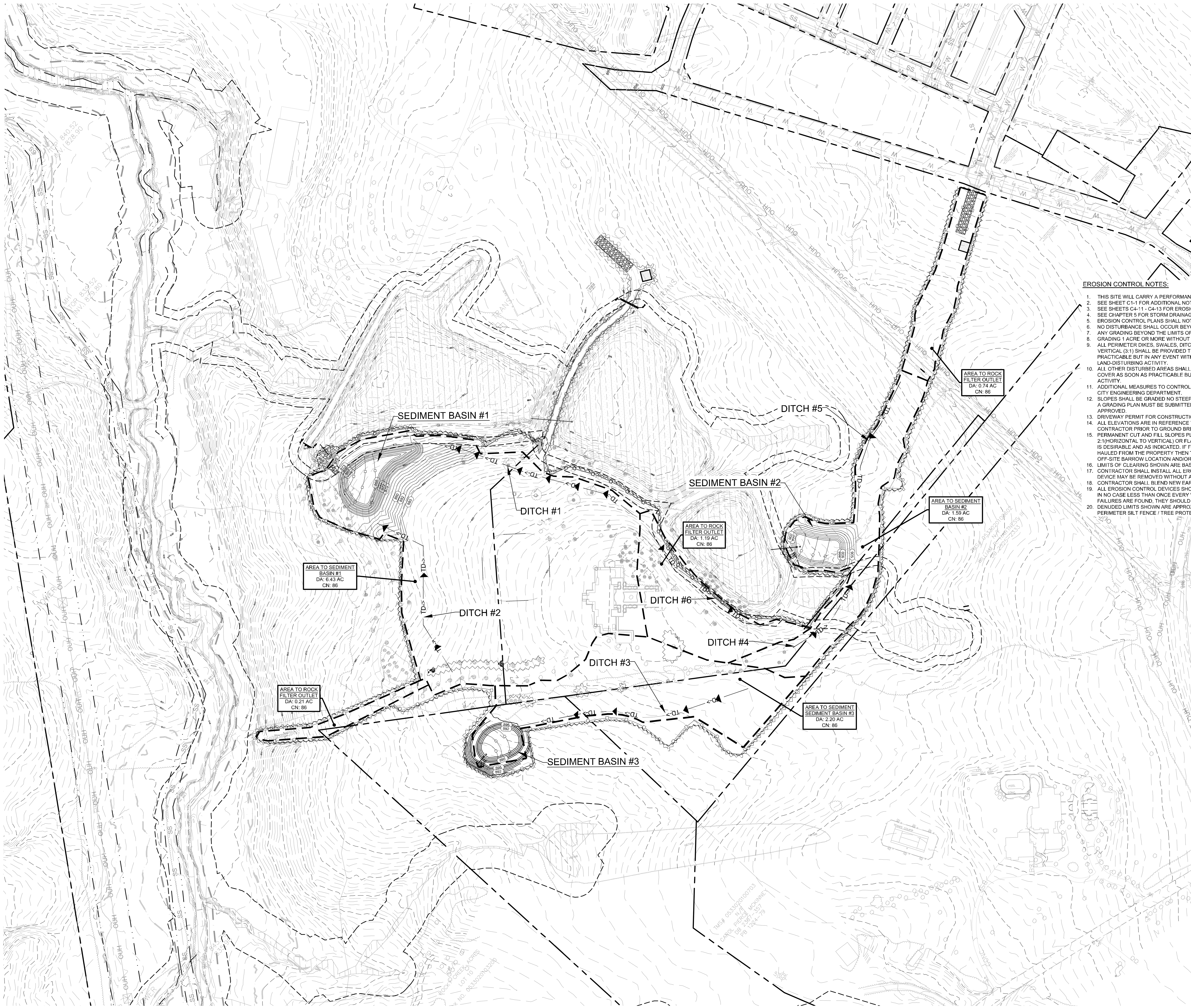
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

NORTH

SHEET TITLE
OVERALL EROSION CONTROL PHASE 1

SHEET NUMBER
C4-1



LEGEND:

- PROPOSED INLET PROTECTION
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- TREE PROTECTION FENCING

TOTAL DENUDED AREA: 14.20 ACRES

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DRAINAGE AREA SUMMARY

AREA	DRAINAGE AREA (AC)	CN
SEDIMENT BASIN #1	6.43	86
SEDIMENT BASIN #2	1.59	86
SEDIMENT BASIN #3	2.20	86
ROCK FILTER DAM	0.74	86
ROCK FILTER DAM	1.19	86
ROCK FILTER DAM	0.21	86
TOTAL	12.36	86

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HARTNESS GREENVILLE

KEY MAP

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SEAL

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PROJECT

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0 50' 100' 200'

NORTH

SHEET TITLE
EROSION CONTROL PHASE 1 - DA MAP

SHEET NUMBER
C4-2

EROSION CONTROL NOTES:

1. THIS SITE WILL CARRY A PERFORMANCE RESERVATION (CRITICAL WATERSHED REQUIREMENT).
2. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
3. SEE SHEETS C4-11 - C4-13 FOR EROSION CONTROL NOTES AND DETAILS.
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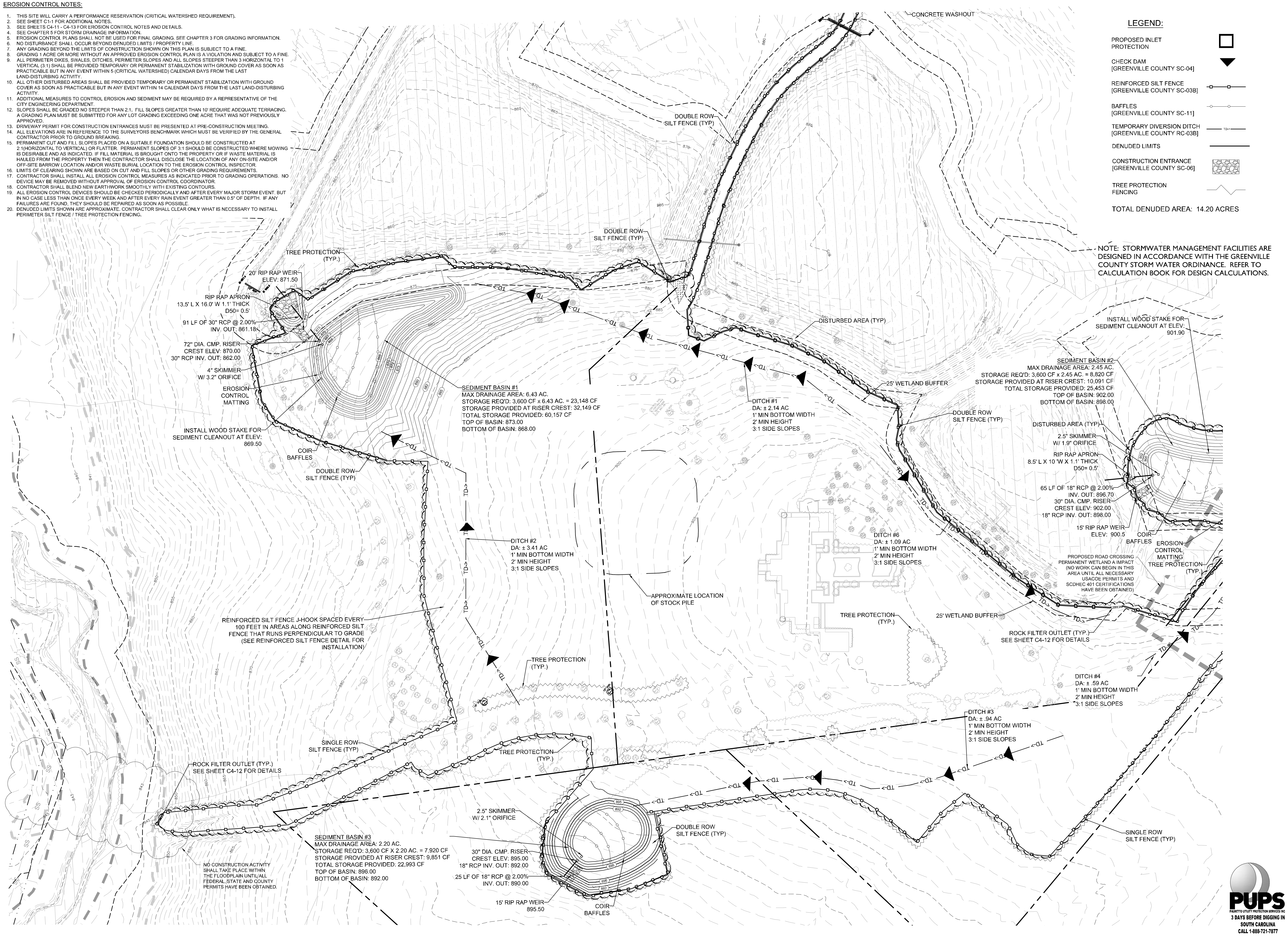

2/3/2020 12:23 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-OVERALL EROSION CONTROL PHASE 1.DWG

ORIGINAL SHEET SIZE: 24" X 36"

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0 25' 50' 100'

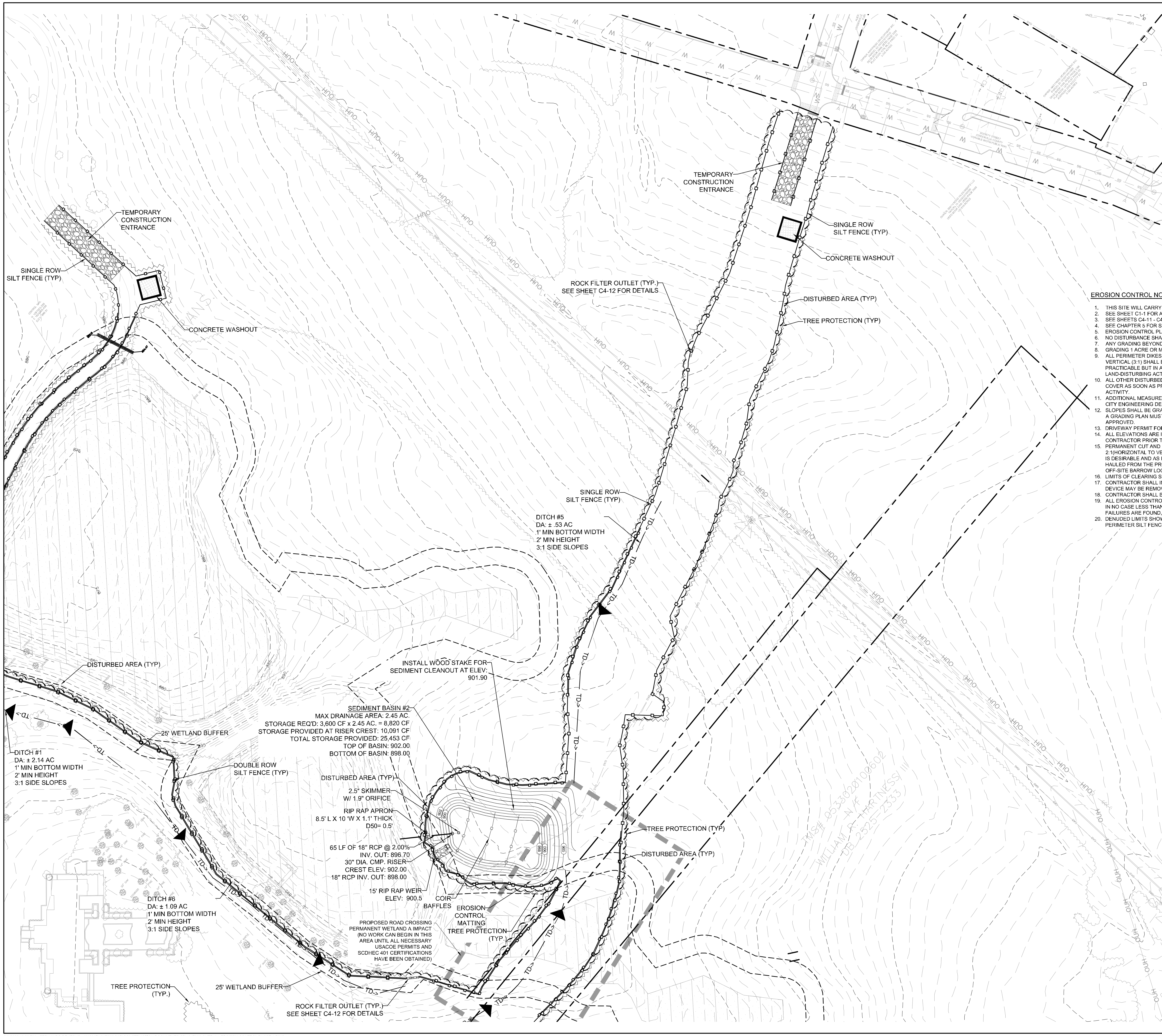
NORTH

SHEET TITLE

EROSION CONTROL PHASE 1

SHEET NUMBER

C4-3



LEGEND:

PROPOSED INLET PROTECTION	
CHECK DAM [GREENVILLE COUNTY SC-04]	
REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]	
BAFFLES [GREENVILLE COUNTY SC-11]	
TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B]	
DENUDED LIMITS	
CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]	
TREE PROTECTION FENCING	

TOTAL DENUDED AREA: 14.20 ACRES

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8. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
9. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 5 (CRITICAL WATERSHED) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
10. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
11. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
13. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
14. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
15. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1(HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BARROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
16. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
18. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
19. ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" OF DEPTH. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
20. DENUDED LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CLEAR ONLY WHAT IS NECESSARY TO INSTALL PERIMETER SILT FENCE / TREE PROTECTION FENCING.

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C+TC DESIGN STUDIO

HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

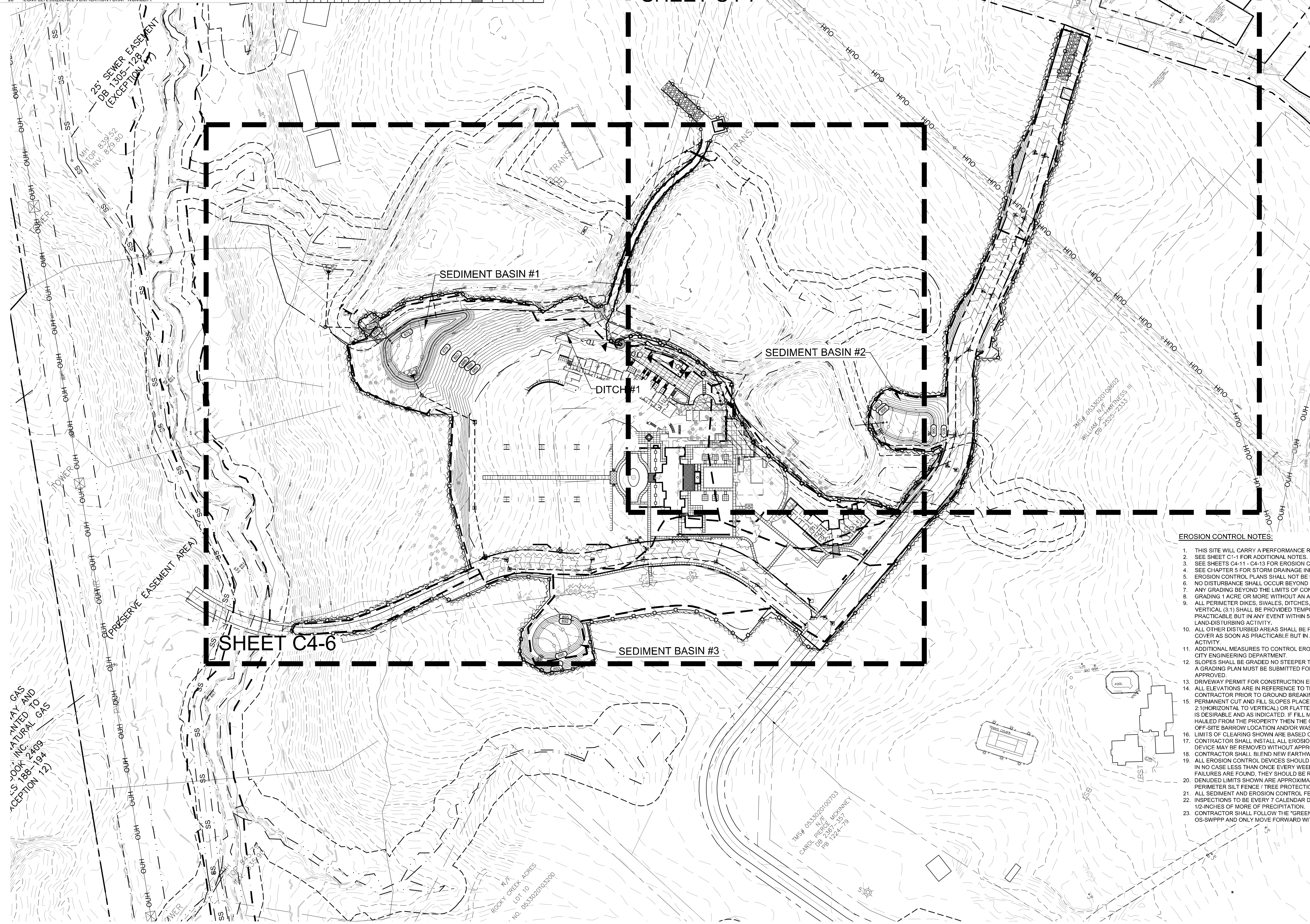
SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

NORTH

SHEET TITLE
EROSION CONTROL PHASE 1

SHEET NUMBER
C4-4

		ACTIVITY (WEEKS)																											
EROSION CONTROL PHASE 2 SEQUENCE OF CONSTRUCTION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	MAINTAIN ALL BMPS FROM EROSION CONTROL PHASE 1. REPAIR OR REPLACE BMPS AS NECESSARY TO ENSURE PROPER FUNCTIONALITY.								■																				
2	BEFORE MASS GRADING ACTIVITIES BEGIN, INSTALL THE TOPSOIL STOCKPILE AREAS AND ASSOCIATED SILT FENCING, AS NECESSARY. CONTRACTOR TO COORDINATE THE EXACT LOCATION OF THE TOPSOIL STOCKPILE AREAS AS SITE CONDITIONS ALLOW.									■	■	■																	
3	BEGIN MASS GRADING OPERATIONS FOR THE PROJECT SITE. THE CONTRACTOR IS TO MAINTAIN THE TEMPORARY SEDIMENT BASIN AND TRAPS DURING ALL MASS GRADING OPERATIONS.												■	■															
4	AS GRADING CONTINUES, INSTALL AND MAINTAIN ALL TEMPORARY DIVERSION SWALES TOWARDS THE TEMPORARY SEDIMENT BASINS AND TRAPS, AS SHOWN. CONTRACTOR TO ENSURE POSITIVE DRAINAGE WITHIN THE TEMPORARY DIVERSION SWALES TOWARDS THE TEMPORARY SEDIMENT BASINS AND TRAPS AT ALL TIMES. AS MASS GRADING CONTINUES, THE TEMPORARY DIVERSION SWALES ARE TO BE KEPT AT THE TOP OF THE SLOPES AND REGRADED AS NECESSARY (AS OFTEN AS NEEDED).														■	■	■	■											
6	CONTINUE GRADING SITE AS NEEDED TO ACHIEVE FINAL GRADES FOR ROAD SUBGRADES, PROPOSED COMMERCIAL BUILDINGS AND AMENITY AREAS, AS ALLOWED, WHILE MAINTAINING THE TEMPORARY SEDIMENT AND TRAPS. INSTALL TEMPORARY SEEDING ON ALL DENUDED AREAS.																		■	■	■	■							
7	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 6																					■							
8	GREENVILLE COUNTY INSPECTOR TO REVIEW AND APPROVE WORK PERFORMED IN EROSION CONTROL PHASE 2 PRIOR TO BEGINNING WORK IN EROSION CONTROL PHASE 3.																					■	■						
9	CONTINUE TO EROSION CONTROL PHASE 3.																						■						
10	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 7																						■						



LEGEND:

PROPOSED INLET PROTECTION

CHECK DAM [GREENVILLE COUNTY SC-04]

REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]

BAFFLES [GREENVILLE COUNTY SC-11]

TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B] TD->

DENUDED LIMITS

CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]

TREE PROTECTION FENCING

TOTAL DENUDED AREA: 14.20 ACRES

NOTE: STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.

EROSION CONTROL NOTES:

1. THIS SITE WILL CARRY A PERFORMANCE RESERVATION (CRITICAL WATERSHED REQUIREMENT).
2. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
3. SEE SHEETS C4-11 - C4-13 FOR EROSION CONTROL NOTES AND DETAILS.
4. SEE CHAPTER 5 FOR STORM DRAINAGE INFORMATION.
5. EROSION CONTROL PLANS SHALL NOT BE USED FOR FINAL GRADING. SEE CHAPTER 3 FOR GRADING INFORMATION.
6. NO DISTURBANCE SHALL OCCUR BEYOND DENUDED LIMITS / PROPERTY LINE.
7. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
8. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
9. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 5 (CRITICAL WATERSHED) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
10. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
11. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
13. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
14. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
15. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1(HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BARROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
16. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
18. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
19. ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" OF DEPTH. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
20. DENUDED LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CLEAR ONLY WHAT IS NECESSARY TO INSTALL PERIMETER SILT FENCE / TREE PROTECTION FENCING.
21. ALL SEDIMENT AND EROSION CONTROL FEATURES SHOULD BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
22. INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OF MORE OF PRECIPITATION.
23. CONTRACTOR SHALL FOLLOW THE "GREENVILLE COUNTY PHASE - SEQUENCE VERIFICATION FORM" KEPT WITH THE OS-SWPPP AND ONLY MOVE FORWARD WITH PROCESS AFTER REQUIRED VERIFICATION.

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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

NORTH

SHEET TITLE
OVERALL EROSION CONTROL PHASE 2

SHEET NUMBER
C4-5

2/3/2020 12:24 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-OVERALL EROSION CONTROL PHASE 2.DWG

ORIGINAL SHEET SIZE: 24" X 36"

EROSION CONTROL NOTES:

1. THIS SITE WILL CARRY A PERFORMANCE RESERVATION (CRITICAL WATERSHED REQUIREMENT).
2. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
3. SEE SHEETS C4-11 - C4-13 FOR EROSION CONTROL NOTES AND DETAILS.
4. SEE CHAPTER 5 FOR STORM DRAINAGE INFORMATION.
5. EROSION CONTROL PLANS SHALL NOT BE USED FOR FINAL GRADING. SEE CHAPTER 3 FOR GRADING INFORMATION.
6. NO DISTURBANCE SHALL OCCUR BEYOND DENUDED LIMITS / PROPERTY LINE.
7. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
8. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
9. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 5 (CRITICAL WATERSHED) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
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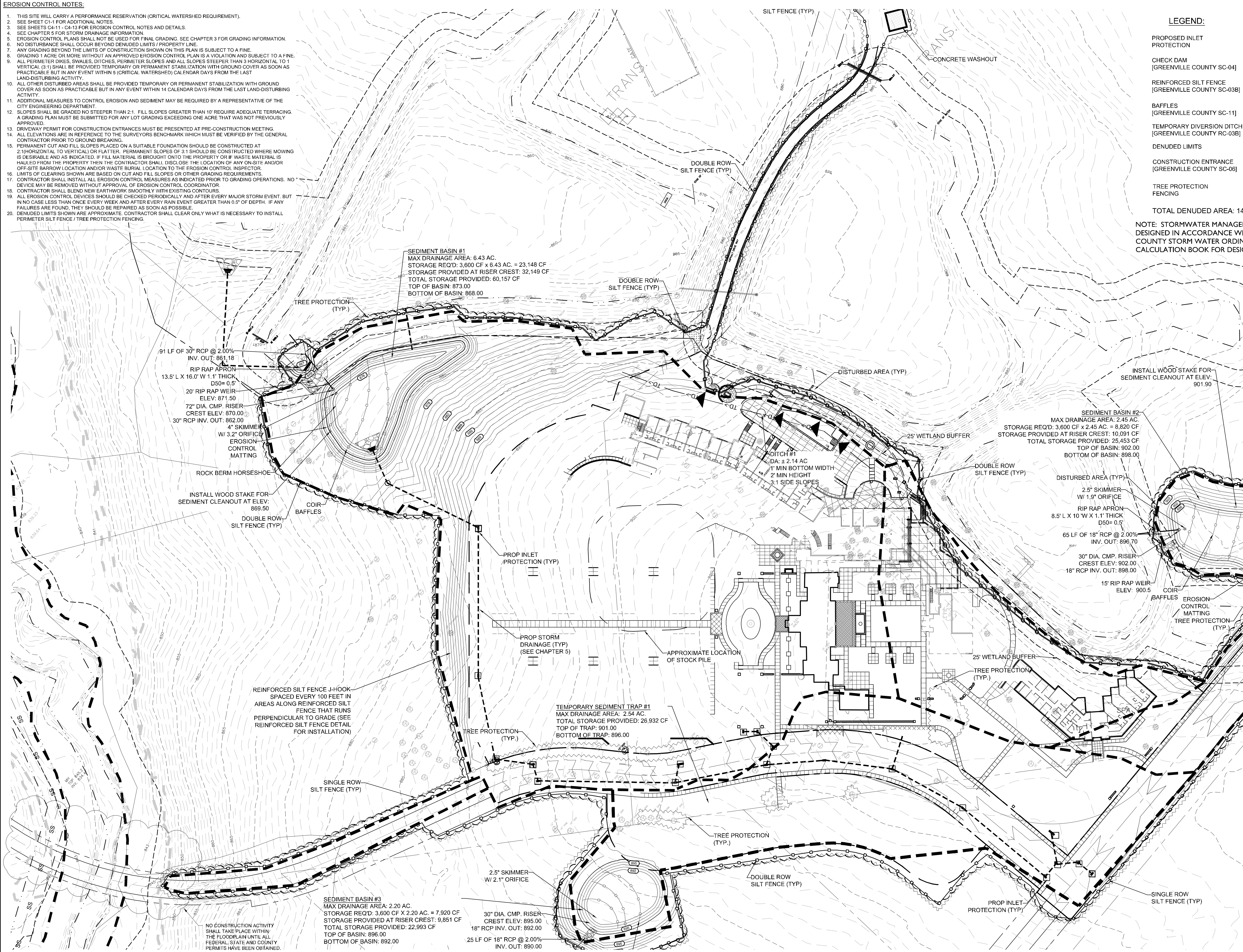
11. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
13. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
14. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
15. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1(HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BARROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
16. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
18. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
19. ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" OF DEPTH. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
20. DENUDED LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CLEAR ONLY WHAT IS NECESSARY TO INSTALL PERIMETER SILT FENCE / TREE PROTECTION FENCING.



LEGEND:

PROPOSED INLET PROTECTION	
CHECK DAM [GREENVILLE COUNTY SC-04]	
REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]	
BAFFLES [GREENVILLE COUNTY SC-11]	
TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B]	
DENUDED LIMITS	
CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]	
TREE PROTECTION FENCING	

TOTAL DENUDED AREA: 14.20 ACRES

NOTE: STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.

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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

NORTH

VERT: N/A
HORZ: 1"=50'

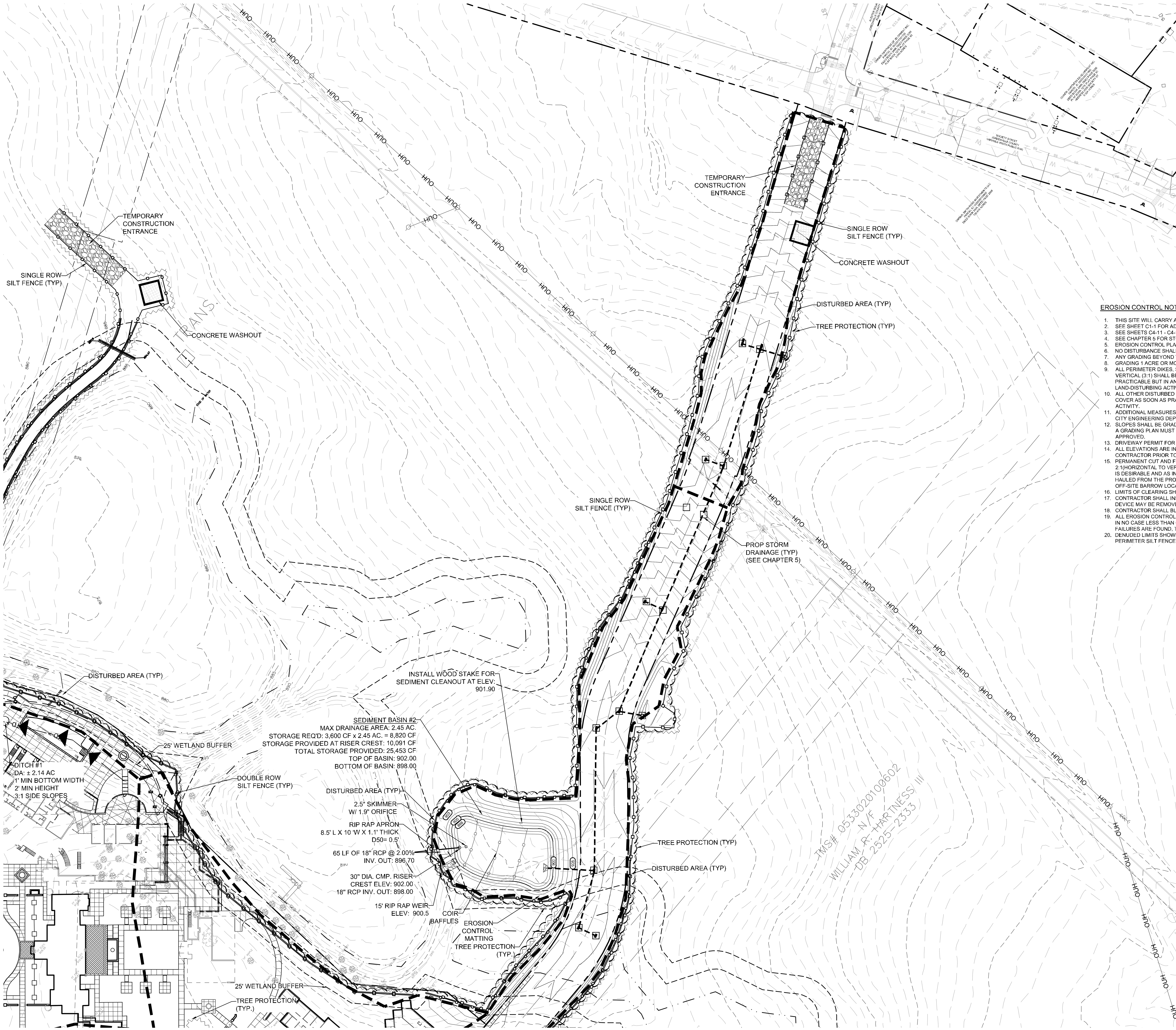
0 25' 50' 100'

SHEET TITLE

EROSION CONTROL PHASE 2

SHEET NUMBER

C4-6



LEGEND:

PROPOSED INLET PROTECTION	
CHECK DAM [GREENVILLE COUNTY SC-04]	
REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]	
BAFFLES [GREENVILLE COUNTY SC-11]	
TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B]	
DENUDED LIMITS	
CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]	
TREE PROTECTION FENCING	

TOTAL DENUDED AREA: 14.20 ACRES

NOTE: STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.

EROSION CONTROL NOTES:

1. THIS SITE WILL CARRY A PERFORMANCE RESERVATION (CRITICAL WATERSHED REQUIREMENT).
2. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
3. SEE SHEETS C4-11 - C4-13 FOR EROSION CONTROL NOTES AND DETAILS.
4. SEE CHAPTER 5 FOR STORM DRAINAGE INFORMATION.
5. EROSION CONTROL PLANS SHALL NOT BE USED FOR FINAL GRADING. SEE CHAPTER 3 FOR GRADING INFORMATION.
6. NO DISTURBANCE SHALL OCCUR BEYOND DENUDED LIMITS / PROPERTY LINE.
7. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
8. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
9. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 5 (CRITICAL WATERSHED) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
10. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
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12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
13. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
14. ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
15. PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1(HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOWING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BARROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
16. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
18. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
19. ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" OF DEPTH. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
20. DENUDED LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CLEAR ONLY WHAT IS NECESSARY TO INSTALL PERIMETER SILT FENCE / TREE PROTECTION FENCING.

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KEY MAP
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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
NORTH
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

SHEET TITLE
EROSION CONTROL PHASE 2

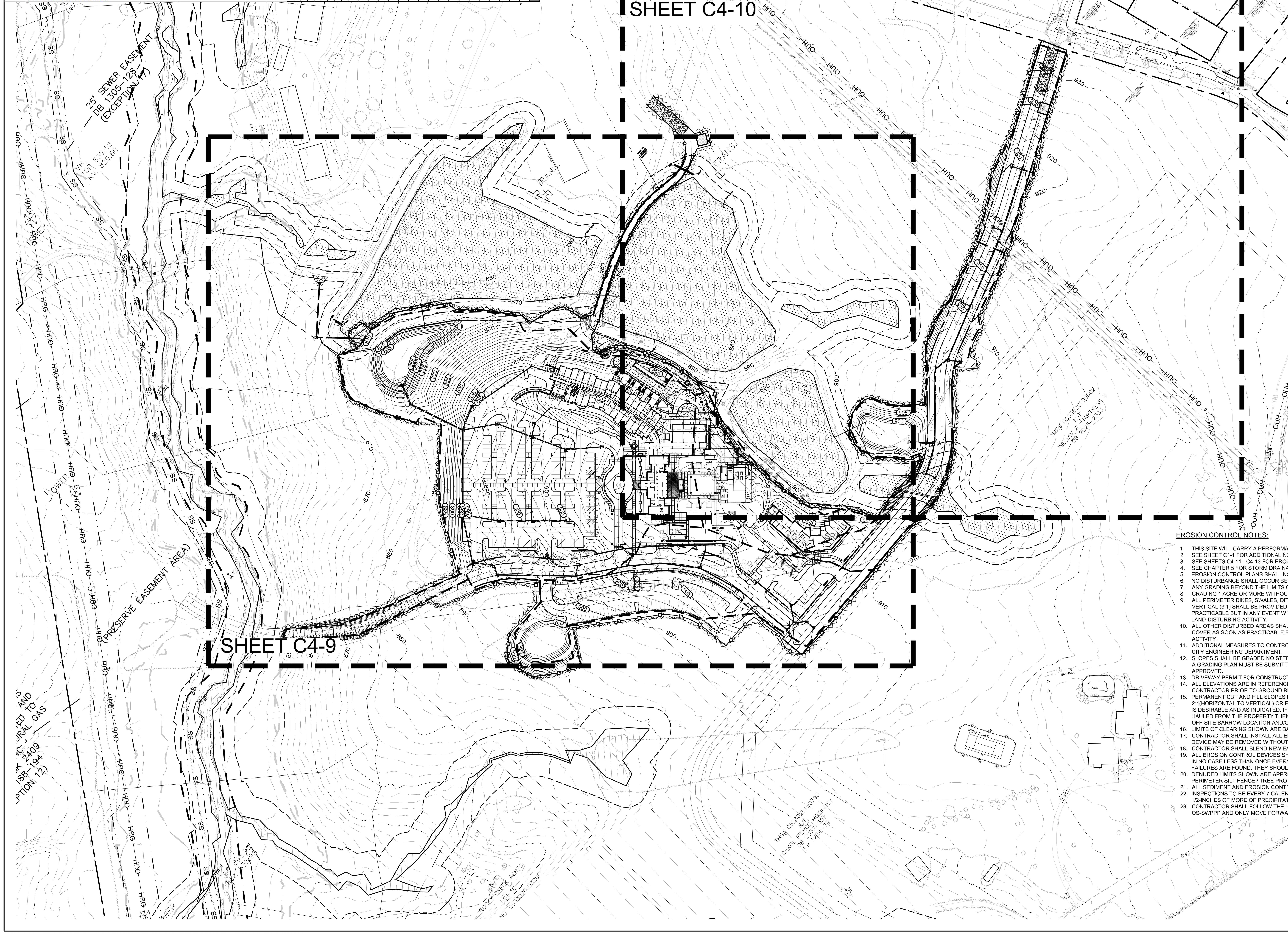
SHEET NUMBER
C4-7

2/3/2020 12:24 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-OVERALL EROSION CONTROL PHASE 2.DWG
ORIGINAL SHEET SIZE: 24" X 36"

12	INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODCES 1/2-INCES OR MORE OF PRECIPITATION.	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

ACTIVITY (WEEKS)

	EROSION CONTROL PHASE 3 SEQUENCE OF CONSTRUCTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	MAINTAIN ALL BMPS FROM EROSION CONTROL PHASE 2. REPAIR OR REPLACE BMPS AS NECESSARY TO ENSURE PROPER FUNCTIONALITY.																						■						
2	AS MASS GRADING OPERATIONS CEASE AND FINAL SITE PREPARATION GRADES ARE ACHIEVED, INSTALL PERMANENT SEEDING ON THE SITE FOR STABILIZATION.																						■	■					
3	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 8																							■					
4	REMOVE SEDIMENT TRAPS FROM THE TEMPORARY SEDIMENT BASIN AND TEMPORARY SEDIMENT TRAPS.																								■	■			
5	ONCE SITE IS COMPLETELY STABILIZED, THE TEMPORARY SEDIMENT BASINS, THE TEMPORARY SEDIMENT TRAPS, AND ALL OTHER TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WILL REMAIN IN PLACE WHILE THE SITE PREPARATION LAND DISTURBANCE PERMIT IS MODIFIED TO A FULL LAND DISTURBANCE PERMIT FOR FULL BUILD OUT OF HARTNESS PHASE IB.																										■		
	CONVERT: TEMPORARY SEDIMENT BASIN 1 TO PERMANENT WET POND AND TEMPORARY SEDIEMENT BASIN 2 TO PERMANENT DRY POND																										■		
6	COMPLETE SEQUENCE VERIFICATION FORM - NUMBER 9																										■		
7	PERFORM GENERAL CLEANUP OF THE SITE.																										■	■	■
8	AFTER THE SITE PREPARATION LAND DISTURBANCE PERMIT IS MODIFIED AND THE FULL LAND DISTURBANCE PERMIT IS RECEIVED FROM SCDHEC FOR THE FULL BUILD OUT OF HOTEL HARTNESS, SCHEDULE AN ONSITE PRE-CONSTRUCTION MEETING WITH THE ENGINEER, OWNER, CONTRACTOR, AND GREENVILLE COUNTY INSPECTOR BEFORE ANY WORK IS PERFORMED.																												■



LEGEND:

PROPOSED INLET PROTECTION

CHECK DAM [GREENVILLE COUNTY SC-04]

REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]

BAFFLES [GREENVILLE COUNTY SC-11]

TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B]

DENUDED LIMITS

CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]

TREE PROTECTION FENCING

TOTAL DENUDED AREA: 14.20 ACRES

NOTE: STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.

EROSION CONTROL NOTES:

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2. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
3. SEE SHEETS C4-11 - C4-13 FOR EROSION CONTROL NOTES AND DETAILS.
4. SEE CHAPTER 5 FOR STORM DRAINAGE INFORMATION.
5. EROSION CONTROL PLANS SHALL NOT BE USED FOR FINAL GRADING. SEE CHAPTER 3 FOR GRADING INFORMATION.
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8. GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
9. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 5 (CRITICAL WATERSHED) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
10. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
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12. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
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16. LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
18. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
19. ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. BUT IN NO CASE LESS THAN ONCE EVERY WEEK AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" OF DEPTH. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
20. DENUDED LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CLEAR ONLY WHAT IS NECESSARY TO INSTALL PERIMETER SILT FENCE / TREE PROTECTION FENCING.
21. ALL SEDIMENT AND EROSION CONTROL FEATURES SHOULD BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
22. INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OF MORE OF PRECIPITATION.
23. CONTRACTOR SHALL FOLLOW THE "GREENVILLE COUNTY PHASE - SEQUENCE VERIFICATION FORM" KEPT WITH THE OS-SWPPP AND ONLY MOVE FORWARD WITH PROCESS AFTER REQUIRED VERIFICATION.

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HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
NORTH
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

SHEET TITLE
OVERALL EROSION CONTROL PHASE 3

SHEET NUMBER
C4-8

2/3/2020 12:25 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-OVERALL EROSION CONTROL PHASE 3.DWG

ORIGINAL SHEET SIZE: 24" X 36"

EROSION CONTROL NOTES:

1. THIS SITE WILL CARRY A PERFORMANCE RESERVATION (CRITICAL WATERSHED REQUIREMENT).
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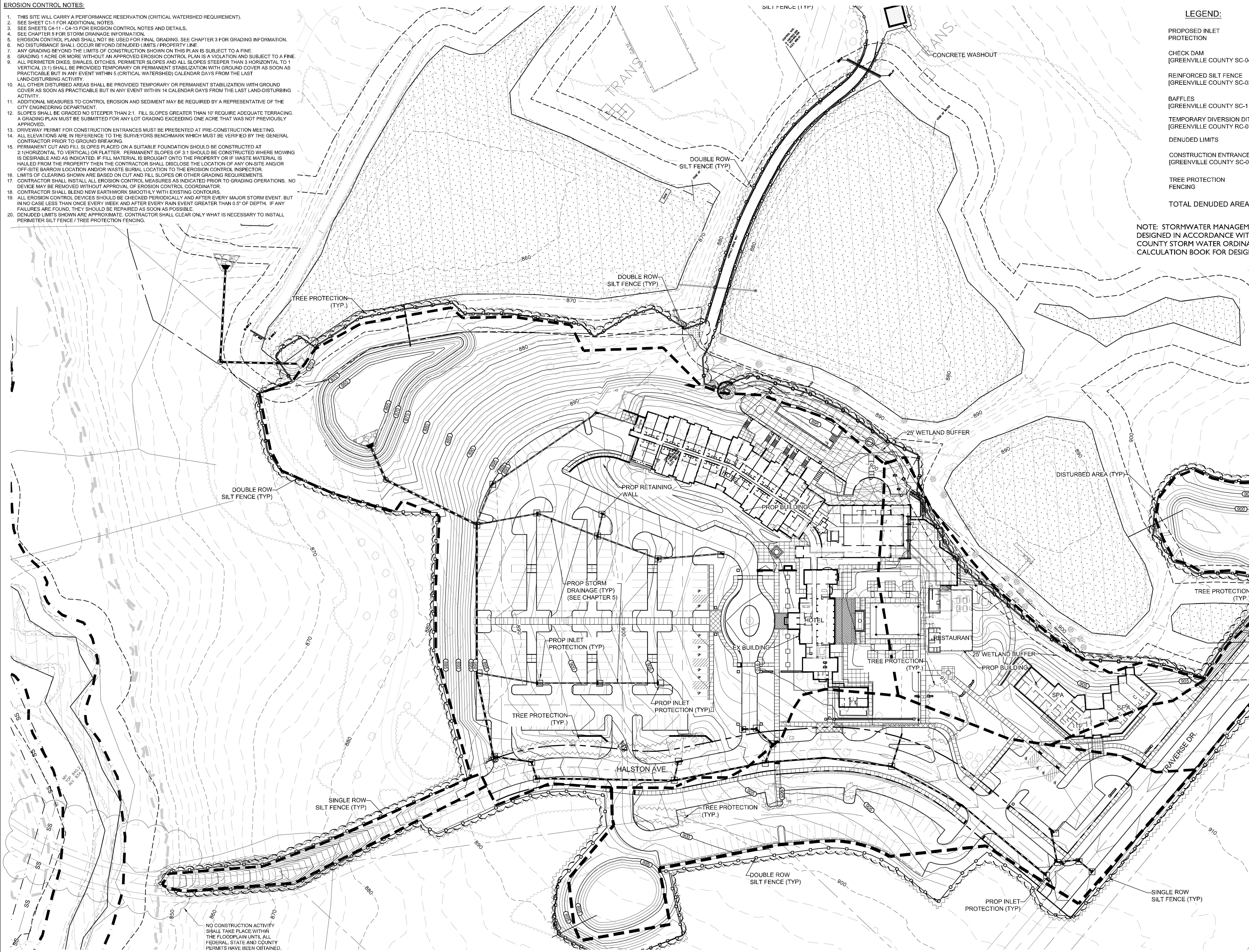

LEGEND:

PROPOSED INLET PROTECTION	
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REINFORCED SILT FENCE [GREENVILLE COUNTY SC-03B]	
BAFFLES [GREENVILLE COUNTY SC-11]	
TEMPORARY DIVERSION DITCH [GREENVILLE COUNTY RC-03B]	TD->
DENUDED LIMITS	
CONSTRUCTION ENTRANCE [GREENVILLE COUNTY SC-06]	
TREE PROTECTION FENCING	

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770-676-7600 | fax 770-676-9600
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP

N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
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SCALE
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HORZ: 1"=50'
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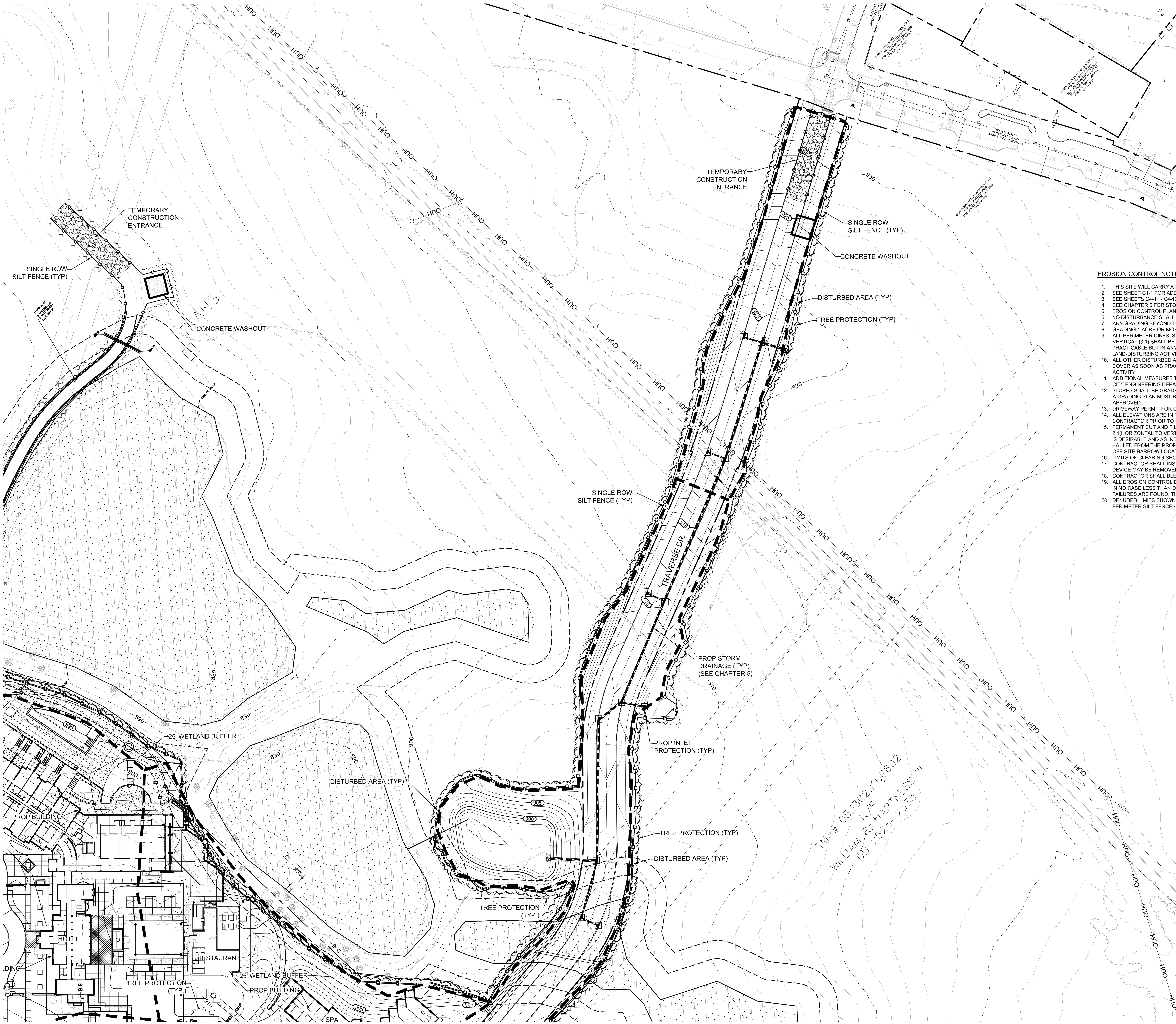
NORTH

SHEET TITLE
EROSION CONTROL PHASE 3

SHEET NUMBER
C4-9

2/3/2020 12:25 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-OVERALL EROSION CONTROL PHASE 3.DWG

ORIGINAL SHEET SIZE: 24" X 36"



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HARTNESS
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KEY MAP

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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

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LANDDESIGN PROJ.#
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REVISION / ISSUANCE

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DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=50'
0 25' 50' 100'

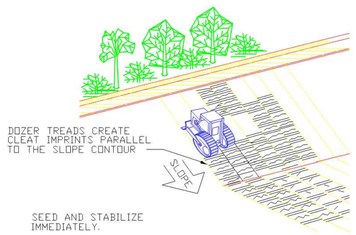
NORTH

SHEET TITLE
EROSION CONTROL PHASE 3

SHEET NUMBER
C4-10

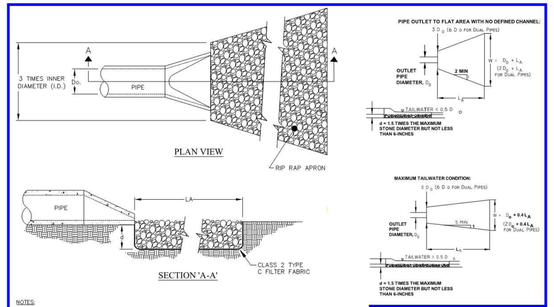
2/3/2020 12:25 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-OVERALL EROSION CONTROL PHASE 3.DWG

ORIGINAL SHEET SIZE: 24" X 36"



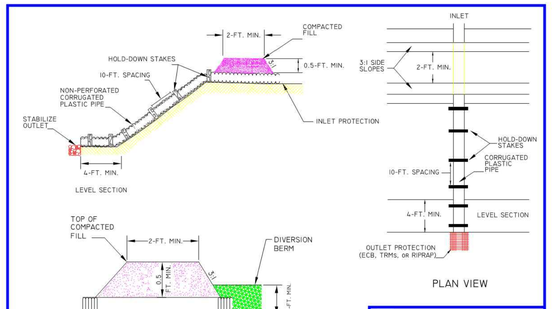
TRACKING

Greenville County Storm Water Management
Tracking
STANDARD DRAWING NO. EC-01A
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE



NOTES:
1) MINIMUM AND MAXIMUM TAILWATER CONDITIONS ARE PROVIDED IN FIGURES 8-6 AND 8-7 IN APPENDIX M
2) LA = THE LENGTH OF THE RIPRAP APRON.
3) Do = OUTLET PIPE DIAMETER
4) D50 = MEDIAN STONE SIZE
5) d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (inches).
6) A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

Greenville County Storm Water Management
OUTLET PROTECTION
STANDARD DRAWING NO. EC-07
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE



TYPICAL PIPE SLOPE DRAIN LAYOUT

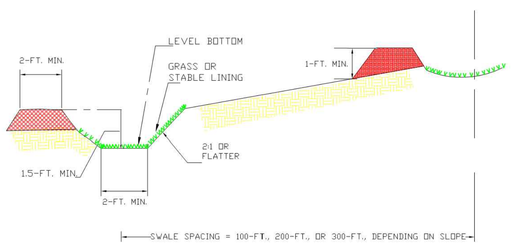
Greenville County Storm Water Management
PIPE SLOPE DRAIN
STANDARD DRAWING NO. RC-01
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE

SEDIMENT BASIN/TRAP TABLE

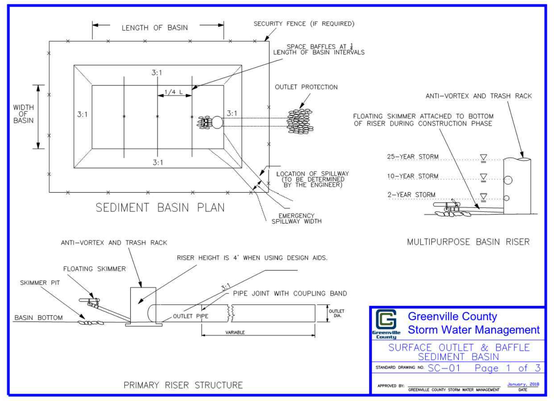
	DRAINAGE AREA (AC)	STORAGE REQUIRED (CF)	STORAGE PROVIDED AT RISER CREST (CF)	TOTAL STORAGE PROVIDED (CF)	TOP OF BASIN	BOTTOM OF BASIN
SEDIMENT BASIN #1	6.43	23,143	32,149	60,157	873.00	868.00
SEDIMENT BASIN #2	2.45	8,820	10,091	25,453	902.00	898.00
SEDIMENT BASIN #3	2.20	7,920	9,851	22,993	896.00	892.00

DIVERSION DITCH TABLE

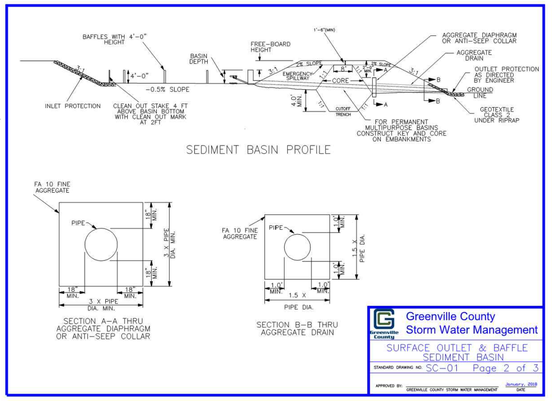
	DRAINAGE AREA (AC)	MIN BOTTOM WIDTH	MIN HEIGHT	SIDE SLOPES
DITCH #1	0.16	1'	2'	3:1
DITCH #2	0.13	1'	2'	3:1
DITCH #3	0.13	1'	2'	3:1
DITCH #4	0.08	1'	2'	3:1
DITCH #5	0.22	1'	2'	3:1



Greenville County Storm Water Management
DIVERSION SWALE
STANDARD DRAWING NO. RC-03B
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE



Greenville County Storm Water Management
SURFACE OUTLET & BAFFLE SEDIMENT BASIN
STANDARD DRAWING NO. SC-01 Page 1 of 3
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE

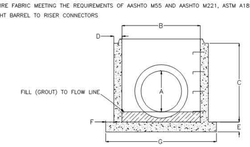


Greenville County Storm Water Management
SURFACE OUTLET & BAFFLE SEDIMENT BASIN
STANDARD DRAWING NO. SC-01 Page 2 of 3
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE

PRECAST CONCRETE RISER WITH BASE

ENSURE ALL RISER (MANHOLE) MATERIALS, MANUFACTURING, TESTING AND PRODUCT PERFORMANCE FOR PRECAST CONCRETE COMPONENTS AND ACCESSORIES ARE IN ACCORDANCE WITH AASHTO M199 AND SECTION 719 OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION, OR LATEST REVISION.

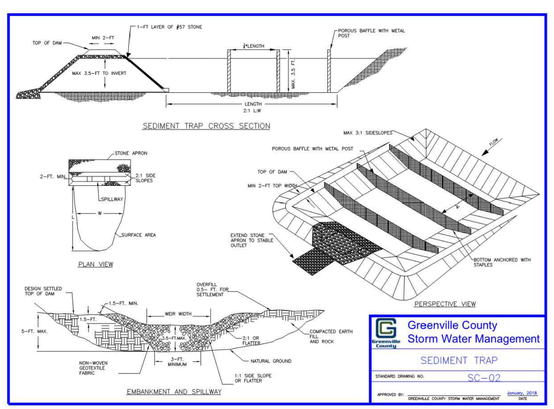
USER PRECAST CONCRETE COMPONENTS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
USE PRECAST CONCRETE MANHOLES WITH A H-93 DESIGN LIVE LOADING.
USE CLASS 4000 CONCRETE (MINIMUM) FOR ALL PRECAST CONCRETE ELEMENTS.
USE REINFORCING BARS CONFORMING TO THE REQUIREMENTS OF ASTM A706, GRADE 60.
USE WELDED WIRE FABRIC MEETING THE REQUIREMENTS OF AASHTO M55 AND AASHTO M221, ASTM A185, or ASTM A497.
USE WATER TIGHT BARREL TO RISER CONNECTORS.



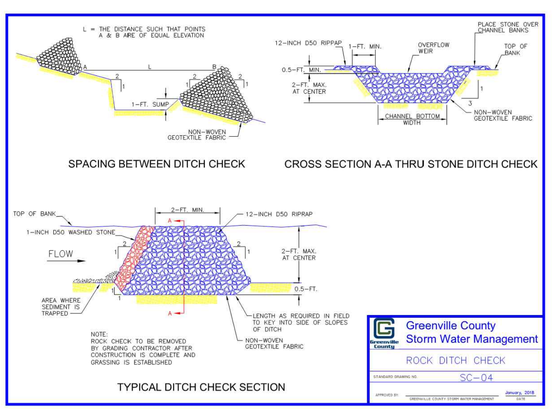
THIS DRAWING IS NOT TO SCALE

PIPE DIAMETER (A) inches	RISER DIAMETER (B) inches	RISER HEIGHT (C) inches	WALL THICKNESS (D) inches MIN	BASE THICKNESS (E) inches MIN	BASE EXTENSION (F) inches MIN	BASE DIAMETER (G) inches MIN
24 and 30	48	48	5	6	8	70
36	60	60	5	6	8	86
42	72	72	6	8	8	110

Greenville County Storm Water Management
SURFACE OUTLET & BAFFLE SEDIMENT BASIN
STANDARD DRAWING NO. SC-01 Page 3 of 3
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE



Greenville County Storm Water Management
SEDIMENT TRAP
STANDARD DRAWING NO. SC-02
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE



Greenville County Storm Water Management
ROCK DITCH CHECK
STANDARD DRAWING NO. SC-04
APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT January 2018 DATE

LandDesign.
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HARTNESS GREENVILLE

KEY MAP

SEAL

NOT FOR CONSTRUCTION

PROJECT:

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: NTS
(NOT TO SCALE)

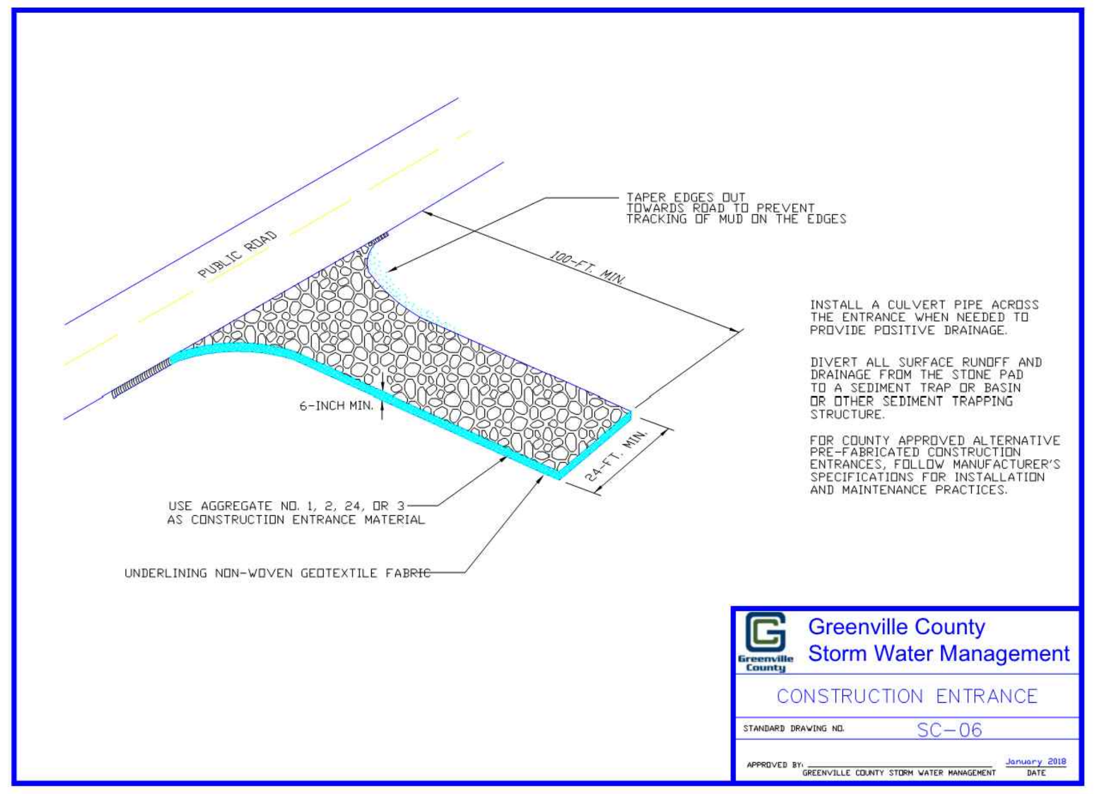
NORTH

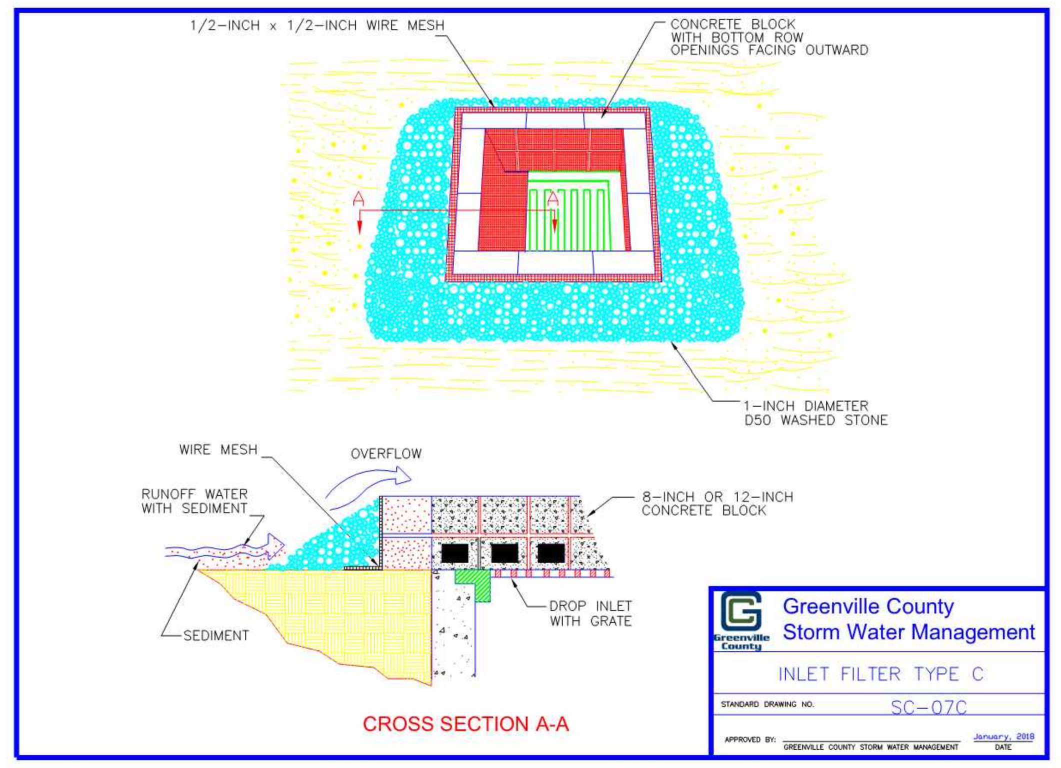
SHEET TITLE

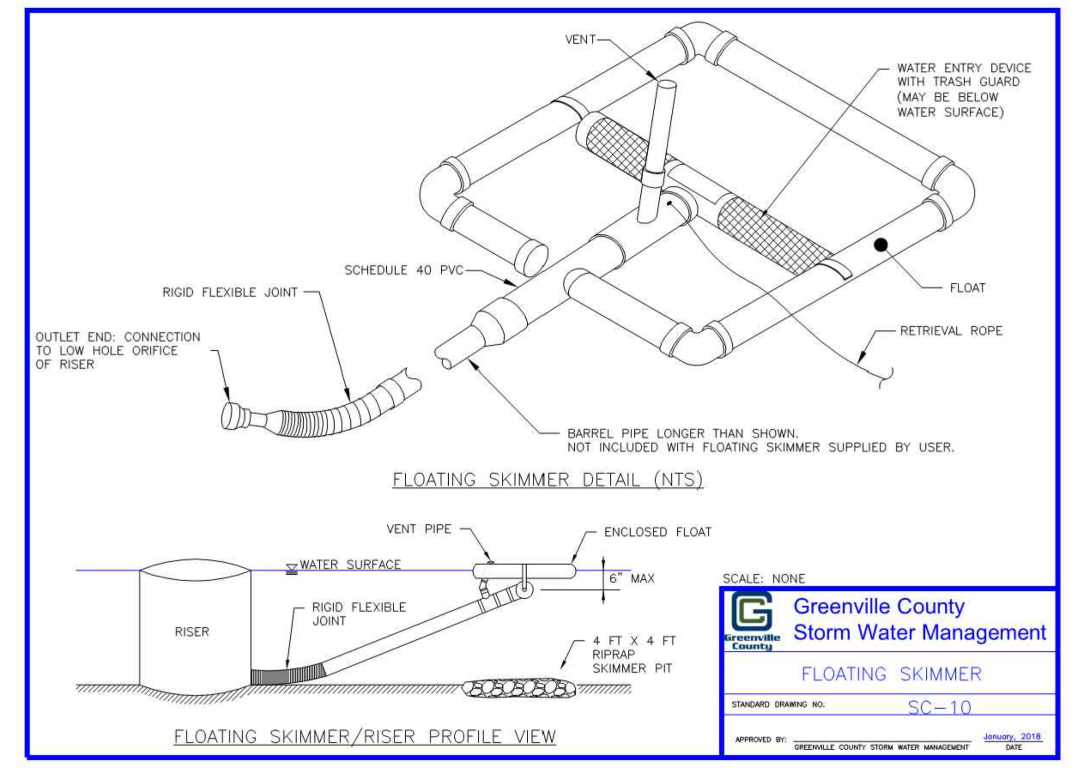
EROSION CONTROL DETAILS

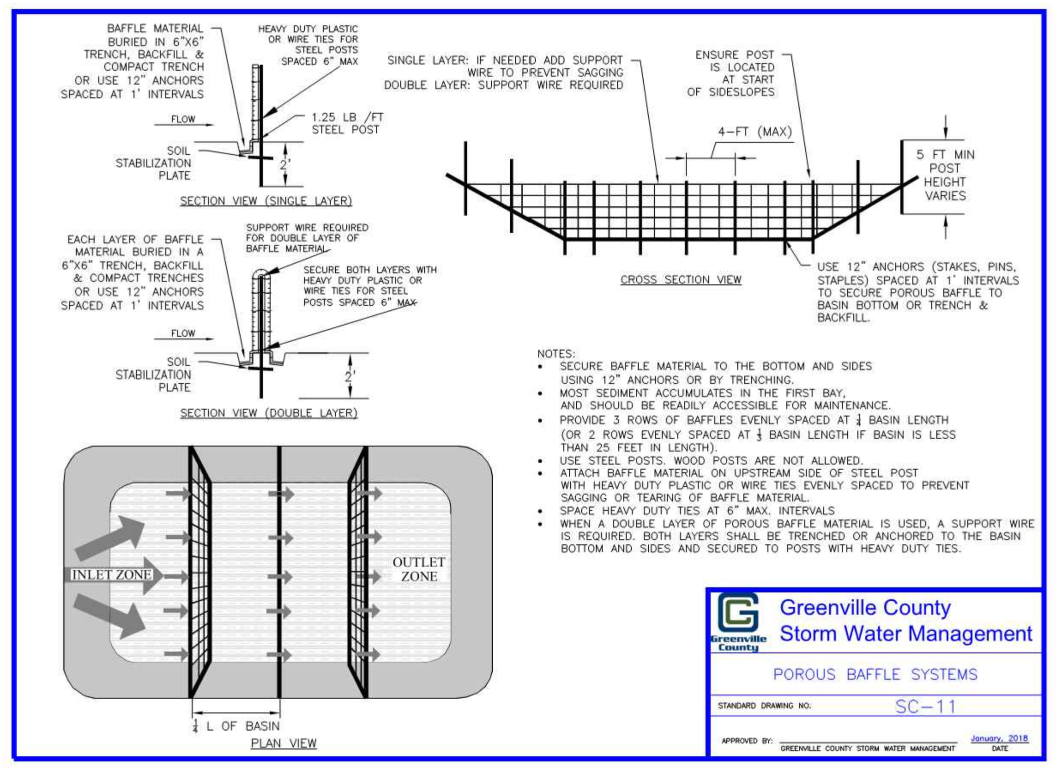
SHEET NUMBER

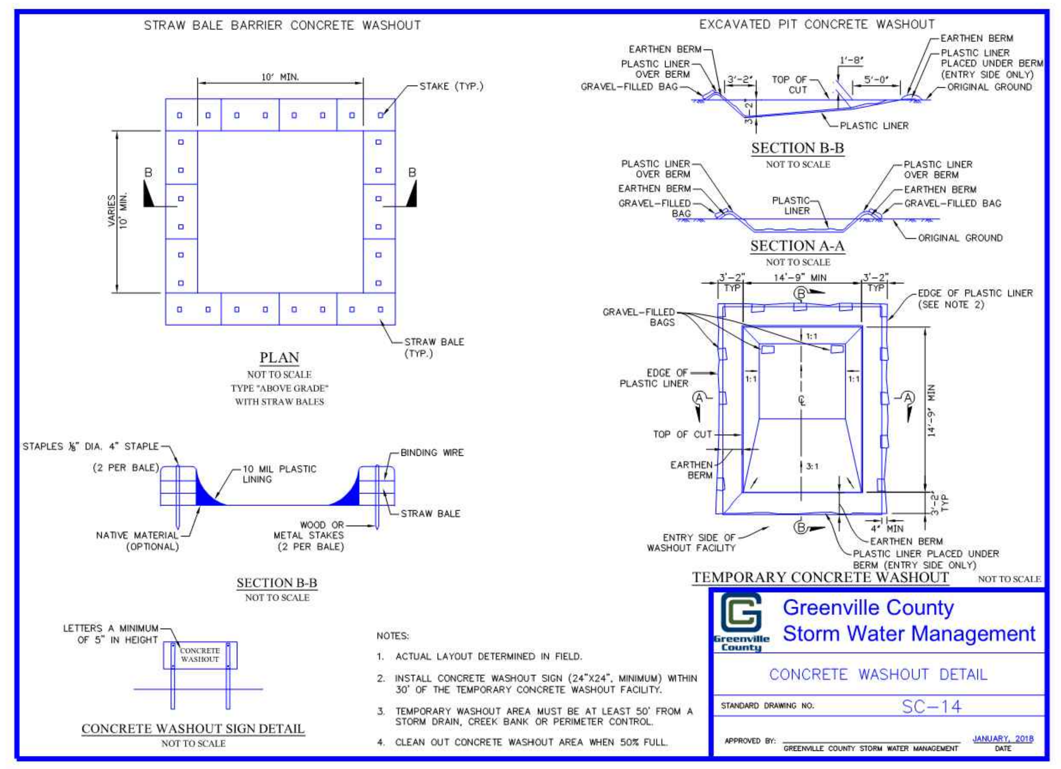
C4-11

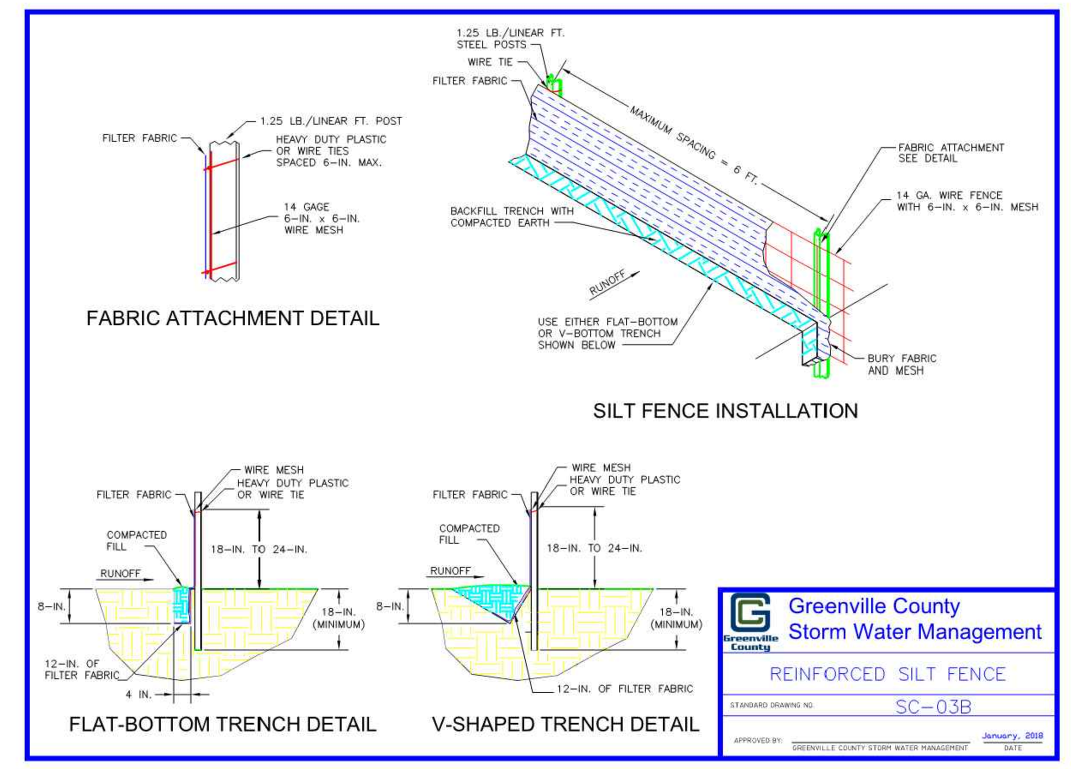












Instructions: Find the appropriate table and choose the appropriate seed type from each section. If a seed type is not available for the needed month, follow the directions in the first column to choose another seed type. The total number of seed types used should match the number of sections for that category. When applying granular fertilizer, use a 10-10-10 blend unless a soil analysis or known soil conditions warrant a different type.

Non Slope Areas

Spring / Summer Non Slope Areas (during establishment, mow when Millet reaches 18-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Common Bermudagrass[1] (hulled = hull absent)	*Cynodon dactylon*	50	1.15				•	•	•	•						Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
White Clover	*Trifolium repens*	5	0.11			•	•				•					Grows to 1 foot tall. Full sun, low drought tolerance. Good erosion control cover.
Browntop Millet	*Panicum ramosum*	10	0.23				•	•	•	•	•					Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

Fall / Winter Non Slope Areas (during establishment, mow when Rye reaches 6 to 8-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Tall Fescue (KY-31)	*Festuca arundinacea*	50	1.15	•	•	•	•					•	•	•	•	Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
Common Bermudagrass[1] (unhulled = hull present)	*Cynodon dactylon*	15	0.34	•	•	•					•	•	•	•	•	Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
White Clover	*Trifolium repens*	5	0.11		•	•	•					•	•	•		Grows to 1 foot tall. Full sun, low drought tolerance, low salt tolerance. Good erosion control cover.
Crimson Clover[2]	*Trfolium incarnatum*	20	0.46	•	•	•	•					•	•	•	•	Upright winter legume, grows from 1-3 feet tall. Full sun, low drought tolerance, no salt tolerance.
Rye Grain[3]	*Secale cereale*	15	0.34	•	•	•	•					•	•	•	•	Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

[1] Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.
[4] If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

Road Medians & Shoulders

Spring / Summer Road Median & Shoulders (during establishment, mow when Millet reaches 18-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Common Bermudagrass[1] (hulled = hull absent)	*Cynodon dactylon*	25	0.57				•	•	•	•						Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
Browntop Millet	*Panicum ramosum*	10	0.23				•	•	•	•	•					Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

Fall / Winter Road Median & Shoulders (during establishment, mow when Rye reaches 6 to 8-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Tall Fescue (KY-31)	*Festuca aruninacea*	50	1.15	•	•	•	•					•	•	•	•	Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
Common Bermudagrass[1] (unhulled = hull present)	*Cynodon dactylon*	15	0.34	•	•	•						•	•	•	•	Long-lived, warm season perennial, spreads by rhizomes/stolons seed, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
Crimson Clover[2]	*Trfolium incarnatum*	20	0.46	•	•	•					•	•	•	•	•	Upright winter legume, grows from 1-3 feet tall. Full sun, low drought tolerance, no salt tolerance.
Rye Grain[3]	*Secale cereale*	15	0.34	•	•	•					•	•	•	•	•	Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

[1] Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.
[4] If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

Slopes & Buffers

Spring / Summer Slopes (during establishment, mow when Millet reaches 18-inches in height. After establishment, only mow at end of winter season)

	Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Pick 1	Tall Fescue (KY-31)	*Festuca aruninacea*	50	1.15			•	•									Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
Pick 1	Bahiagrass	*Paspalum notatum*	30	0.69			•	•	•	•	•						Warm season perennial, spreads by rhizomes, grows 1-2 feet tall, deep root system. Shade tolerant, salt tolerant, drought tolerant. Low maintenance, tough grass surviving conditions that destroy most turf grasses. Adapts to most soil conditions and extremely tolerant to wear and traffic.
Pick 1	Common Bermudagrass[1] (hulled = hull absent)	*Cynodon dactylon*	15	0.34				•	•	•	•						Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, high nitrogen requirement.
	White Clover	*Trifolium repens*	5	0.11			•	•				•					Warm season bunch grass, deep root system, grows 3-6 feet tall. Full sun, high drought tolerance.
	Weeping Lovegrass	*Erograstis curvula*	5	0.11			•	•	•	•	•	•					Warm season bunch grass, grows 3 feet tall. Full sun, high drought tolerance. Plant at 10%-20% of mix.
	Hairy Vetch[2]	*Vicia villosa*	10	0.23				•									Cool season biennial or annual legume. Viney, trailing or climbing growth. Wide range of soil types, best adapted to loamy and sandy soils.
	Browntop Millet	*Panicum ramosum*	10	0.23				•	•	•	•	•					Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance.

Fall / Winter Slopes (during establishment, mow when Rye reaches 6 to 8-inches in height. After establishment, only mow at end of winter season)

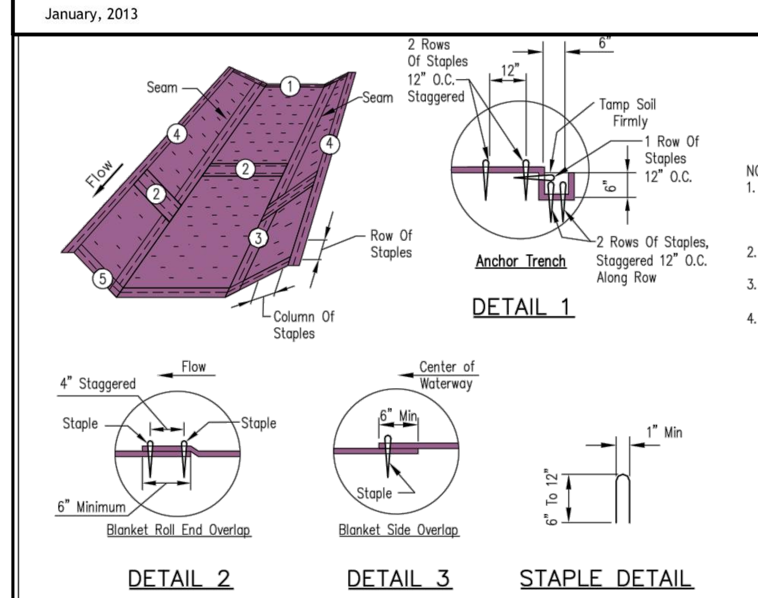
	Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
	Tall Fescue (KY-31)	*Festuca aruninacea*	50	1.15	•	•	•						•	•	•	•	Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
	Common Bermudagrass[1] (unhulled = hull present)	*Cynodon dactylon*	15	0.34	•	•	•						•	•	•	•	Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, high nitrogen requirement.
	White Clover[2]	*Trifolium repens*	5	0.11		•	•						•	•	•		Grows to 1 foot tall. Full sun, low drought tolerance, low salt tolerance. Good erosion control cover.
	Weeping Lovegrass	*Erograstis curvula*	5	0.11	•	•	•						•	•	•	•	Warm season bunch grass, grows 3 feet tall. Full sun, high drought tolerance.
Pick 1	Crimson Clover[2]	*Trfolium incarnatum*	20	0.46	•	•	•						•	•	•	•	Upright winter legume, grows from 1-3 feet tall. Full sun, low drought tolerance, no salt tolerance.
Pick 1	Hairy Vetch[2]	*Vicia villosa*	10	0.23	•	•	•						•	•	•	•	Cool season biennial or annual legume. Viney, trailing or climbing growth. Wide range of soil types, best adapted to loamy and sandy soils.
	Rye Grain[3]	*Secale cereale*	15	0.34	•	•	•						•	•	•	•	Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

[1] Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.
[4] If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

DAM AND EMBANKMENT CONSTRUCTION

1. GENERAL - THE BASIN AND DAM AREA SHALL BE CLEARED, GRUBBED AND STRIPPED OF ALL VEGETATIVE MATERIAL AND TOP SOIL PRIOR TO DAM CONSTRUCTION. THE DISPOSAL OF TREES, STUMPS, CONSTRUCTION DEBRIS, VEGETATIVE MATERIAL, ETC. SHALL NOT BE PERMITTED IN THE DAM OR BASIN AREA. WHEN BLASTING IS USED TO REMOVE ROCK FROM THE BASIN AREA, THE BLASTED AREA SHALL BE OVER-EXCAVATED TO A DEPTH OF AT LEAST TWO FEET (2') BELOW FINISHED GRADE AND BROUGHT BACK TO FINISHED GRADE WITH CLEAN RELATIVELY IMPERVIOUS SOIL MATERIAL COMPACTED IN PLACE.

2. EARTH FILL DAMS
   - 2.1. SOIL MATERIALS USED FOR EARTH FILL WHICH ARE HIGHLY PERMEABLE OR WHICH EXHIBIT SIGNIFICANT SHRINKAGE OR SWELL, OR DISPERSION SHALL NOT BE USED IN THE EMBANKMENT.
   - 2.2. A CUTOFF TRENCH (CORE TRENCH) SHALL BE PROVIDED WITH A MINIMUM WIDTH OF FIVE FEET (5'). THE CENTERLINE OF THE CUTOFF TRENCH SHALL NOT BE LOCATED DOWNSTREAM OF THE INSIDE TOP OF SLOPE OF THE DAM. THE CUTOFF TRENCH SHALL BE CAREFULLY BACK-FILLED WITH HIGHLY IMPERMEABLE MATERIAL AND COMPACTED TO AT LEAST NINETY-FIVE PERCENT (95%) OF STANDARD PROCTOR
   - 2.3. THE MINIMUM TOP WIDTH OF THE DAM SHALL BE TEN FEET (10') AND PERMANENT SLOPES SHALL NOT BE STEEPER THAN 3:1 (THREE HORIZONTAL TO ONE VERTICAL) ON THE DAM OR EMBANKMENTS AROUND THE BASIN.
   - 2.4. ALL DISTURBED GROUND AREAS AND EMBANKMENTS SURROUNDING THE BASIN SHALL BE MECHANICALLY STABILIZED OR HAVE PERMANENT SEEDING SCHEDULE.

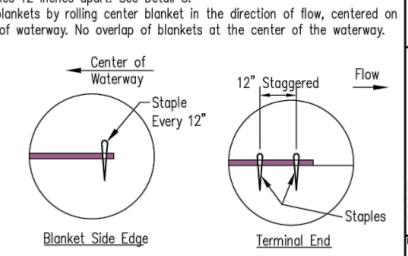


Waterway #			
Waterway Width (ft)			
ECB Width (ft)			
Length (ft)			
Stations	_____ to _____	_____ to _____	_____ to _____

NOTES:
1. The erosion control blanket consists of a machine produced mat of specified material. The product must meet the minimum requirements specified in Table 1, below. Ensure that the product is new and unused, and is furnished in rolls. Alternative materials may be used upon approval by the designer.
2. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.
3. The erosion control blanket is to be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket can not be stretched.
4. Install the erosion control blanket according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:
   - a. Use "U" shaped staples, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.
   - b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.
   - c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.
   - d. Overlap blankets on side slopes a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.
   - e. Staple the outer edge along sides of the blanket every 12 inches. See Detail 4.
   - f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.
   - g. Downstream (terminal) end of blanket are to be stapled with a double row of staggered staples 12 inches apart. See Detail 5.
5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. No overlap of blankets at the center of the waterway.

TABLE 1. MINIMUM REQUIREMENTS FOR EROSION CONTROL BLANKET

(See Note 1)	Coconut Blanket	Wood Fiber Blanket	
Type of Fiber	100% coconut fibers	100% curled wood fibers	
Weight, lbs/sq. yd.	0.50	0.63	
Life Expectancy			
Fiber Length	N/A	80% of fibers > 6 in.	
Fiber Dimensions	N/A	0.021 in. x 0.042 in.	
Netting Netting Required ? ☐ Yes ☐ No	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5" centers.	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting	



Not To Scale

EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed M. QUINONES Date 7/1/15
United States Department of Agriculture
Natural Resources Conservation Service
File No. IL ENG-61
Page 1 of 1

BLOCK AND GRAVEL DROP INLET PROTECTION

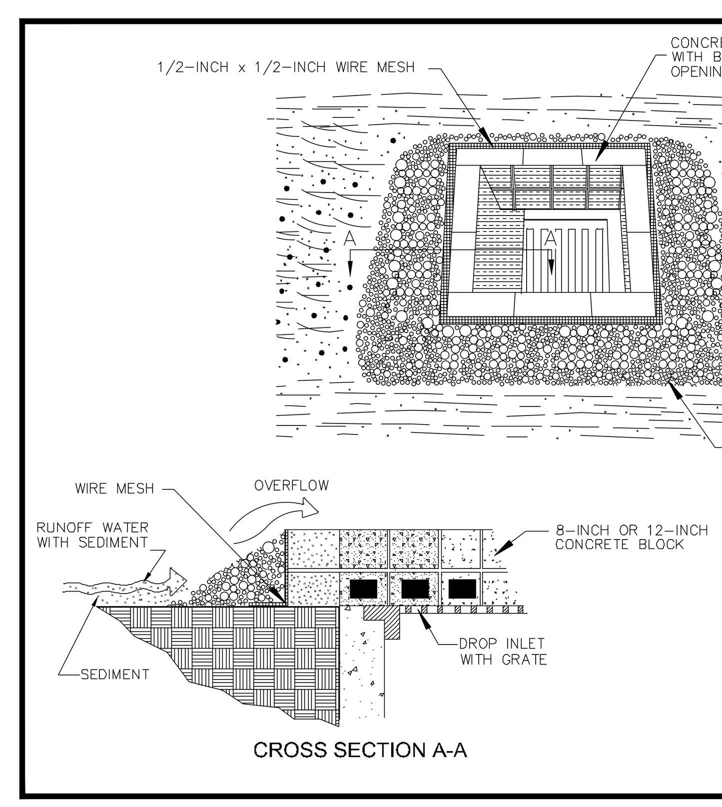
GENERAL NOTES

1. Block and gravel filters can be used where heavy flows and higher velocities are expected and where an overflow capacity is necessary to prevent excessive ponding around the structure.
2. Gravel shall consist of 1-inch D50 Washed Stone and should extend to height equal to the elevation of the top of the blocks.
3. Place the bottom row of the concrete blocks lengthwise on their side so that the open end faces outward, not upward.
4. The height of the barrier can be varied, depending upon design needs by stacking a combination of blocks that are 8- to 12-inches wide.
5. Wire mesh should be placed over the outside vertical face of the concrete blocks to prevent stones from being washed through the holes in the blocks. Hardware cloth or comparable wire mesh with ½-inch x ½-inch openings should be used.

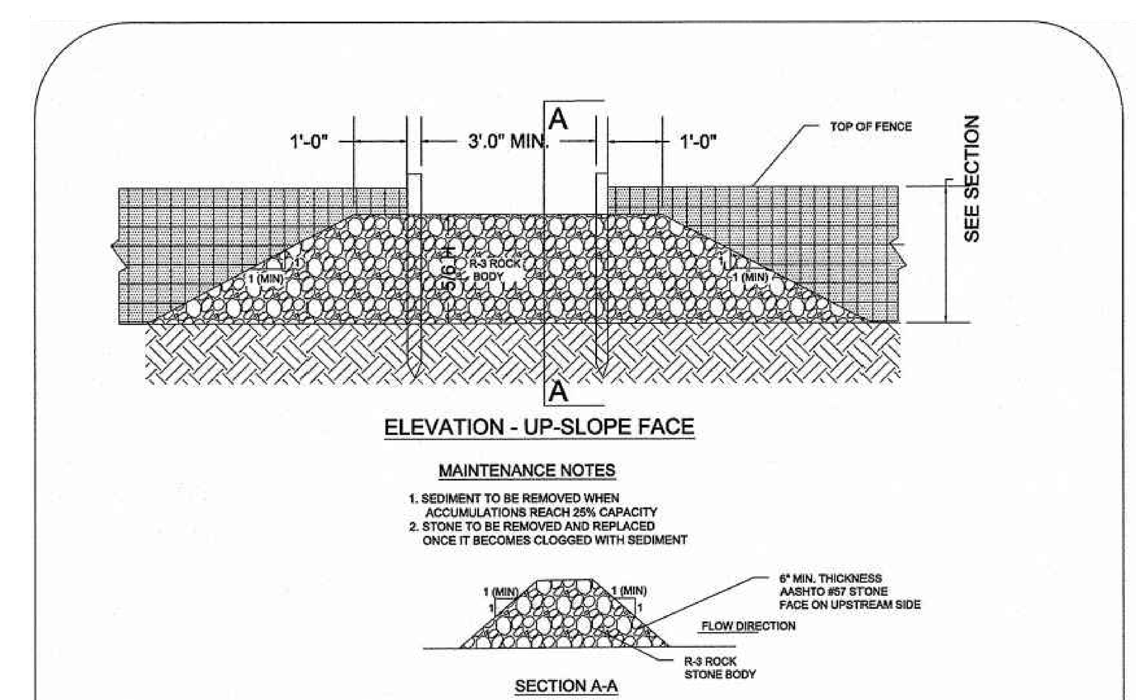
INSPECTION AND MAINTENACNE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. If the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced with fresh stone.
8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control
Type C
BLOCK & GRAVEL INLET PROTECTION
STANDARD DRAWING NO. SC-09 PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control
Type C
BLOCK & GRAVEL INLET PROTECTION
STANDARD DRAWING NO. SC-09 PAGE 1 of 2
NOT TO SCALE FEBRUARY 2014 DATE



ROCK FILTER OUTLET DETAIL
NTS

LandDesign.
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SC ENG. FIRM LICENSE # C01396

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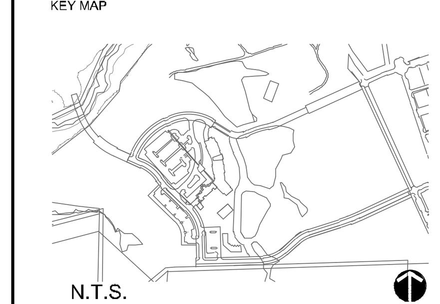
HARTNESS GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: NTS
(NOT TO SCALE)
NORTH

SHEET TITLE
EROSION CONTROL DETAILS

SHEET NUMBER
C4-12

2/3/2020 12:26 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-EROSION-DETAILS.DWG

ORIGINAL SHEET SIZE: 24" X 36"

Temporary Stabilization

Temporary Stabilization is defined as a condition where exposed soils or disturbed areas are provided a temporary vegetative and/or non–vegetative protective cover to prevent erosion and sediment loss. Temporary stabilization may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re–disturb this area.

Initiating Temporary Stabilization

Initiate temporary stabilization by mulch or temporary stabilization by seeding within 7 calendar days where land disturbing activities have temporarily ceased on the Project and will not resume for a period exceeding 14 calendar days. Where land disturbing activities on a portion of the Project are temporarily ceased, and the land disturbing activities are resumed within 14 days, temporary stabilization measures are not required to be initiated on that portion of the Project.

Temporary stabilization by seeding is required if the Project will not be worked for a period longer than 60 days.

Initiate temporary stabilization measures as soon as practicable for areas where initiating temporary stabilization measures within 7 days is infeasible (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization).

Greenville County Standard Notes

Temporary Stabilization

Acceptance of Temporary Stabilization

Before acceptance of temporary stabilization by the regulatory agency and the Design Engineer or Landscape Architect, temporary stabilization is required that is sufficient to control erosion for a given area and length of time before the next phase of construction or the establishment of permanent seeding is to commence. A satisfactory stand of temporary stabilization meeting the requirements of this Specification is required regardless of the time of the year the work is performed.

Temporary Cover by Mulch

Use temporary cover by mulch where it is not feasible or practicable to bring an area to final slope and grade. Finish the surface so that permanent seeding can be performed without subsequent disturbance by additional grading.

Temporary Cover by Seeding

Following the preparation of the seedbed, sow seed per the seeding Tables and apply an appropriate Mulch prior to a rainfall event that compacts the seedbed. The CONTRACTOR may add granular lime and fertilizer as necessary to enhance growth.

Final Stabilization

Final Stabilization is defined that all land–disturbing activities at the construction site have been completed and that on all areas not covered by permanent structures, either

(1) A uniform (e.g., evenly distributed, without large bare areas) permanent vegetative cover with a density of 70 percent has been established, or

(2) Equivalent permanent stabilization measures (such as the use of landscaping mulch, riprap, pavement, and gravel) have been implemented to provide effective cover for exposed portions of the construction site not stabilized with permanent vegetation.

Final stabilization by vegetation must be achieved with permanent perennial vegetation prior to issuing the Notice of Termination (NOT).

Permanent Seeding

Initiate permanent seeding within 7 calendar days where land disturbing activities have permanently ceased on the Project. Where land disturbing activities are resumed within 14 days, stabilization measures are not required to be initiated on that portion of the Project. Initiate permanent seeding measures as soon as practicable for areas where initiating permanent seeding measures within 7 days is infeasible (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization).

When performing permanent seeding for permanent detention ponds, ensure that the detention pond is cleaned of any deposited sediment and graded to the required permanent detention basin configuration. Ensure the seedbed for the permanent seeding is established in accordance with this Specification.

Acceptance of Permanent Seeding

Before acceptance, a uniform perennial vegetative cover with a density of 70% of each square yard of the seeded area is required. A well developed root system must be established to sufficiently survive dry periods and winter weather and be capable of reestablishment in the spring.

Permanent Seeding Installation

Following the preparation of the seedbed, perform permanent seeding per the seeding Tables and apply an appropriate Mulch within 5 working days and/or prior to a rainfall event that compacts the prepared seedbed. If a rain event occurs that compacts or erodes the seedbed prior to performing permanent seeding, the seedbed must be re–prepared prior to conducting permanent seeding. Add fertilizer and lime as required by a soil test.

Sod

Initiate Sod applications within 7 calendar days where land disturbing activities have permanently ceased on the Project. Initiate Sod applications measures as soon as practicable for areas where initiating Sod applications within 7 days is infeasible (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization). Use Sod on slopes less than 2H:1V.

Acceptance of Sod

Acceptance is contingent on establishing a satisfactory stand of perennial grass. Sod application areas are acceptable when all requirements including maintenance are met and a healthy, evenly colored, viable stand of grass is established. A satisfactory stand of grass must have a root system that is sufficient to survive dry periods and winter weather and is capable of re–establishing in the spring.

Greenville County Standard Notes

Sod

Do not use sodding on slopes steeper than 2H:1V, and if sodding is mowed, do not place on slopes greater than 3H:1V. Install Warm Season Sod between March 1st and September 1st. Install Cool Season Sod anytime during the year as long as the soil is not frozen. Do not place Sod on:

- Soil that is frozen and/or when the 10–day forecasted low temperature remains below 35 degrees Fahrenheit;
- Soil that is excessively wet;
- Soil that is excessively dry (periods of heat or drought) unless watering is specified;
- Soil that is composed of compacted clay; and
- Soil than has been treated with pesticides.

Sod Bed Preparation

- Ensure the Sod bed is uniform and conforms to the finished grade of the Project.
- Loosen the Sod Bed to a minimum depth of 3 inches before placing Sod.
- Furnish and place topsoil or compost in the Sod Bed in areas where the existing Sod Bed has little or no topsoil,
- Lay Sod when Sod Bed is moist. Moisten dry Sod Beds before sod is laid.

Sod Material

Provide Sod with living, well–established growth, with a dense root mat of predominant grass Specified. Provide vigorous, well rooted, healthy turf, free from disease, insect pests, weeds, other grasses, stones, and any other harmful or detrimental materials.

Sod Installations

Ensure Sod is not installed until the end of the project or when final stabilization is achieved on adjacent areas of the project that drain or discharge to the Sod application.

Amendments

Lime

Agricultural Granular Lime

Use agricultural grade, standard ground limestone for all permanent seeding applications and Sodding applications.

Applying Granular Lime

A soil analysis is recommended prior to application. Apply at a rate within ±10% of weight recommendation of soil analysis. Do not apply more than 2,500 lbs/acre of in a single application.

Fast Acting Lime

Use fast acting liquid and/or dry forms of lime for all temporary seeding and permanent seeding applications.

Fertilizer

Granular Fertilizer

Use for all permanent seeding applications and all Sodding applications. Proper mixture is dependent on the existing soil conditions and it is recommended that a soil analysis be performed if the soil conditions are uncertain in the area of fertilizer application.

Use fertilizer that incorporates a minimum of 50% water insoluble (slow release) nitrogen. Animal by–product or municipal waste fertilizers are not acceptable under this Specification.

Unless a soil analysis is performed to determine otherwise, a good rule of thumb granular fertilizer to apply in the Upstate of South Carolina is 10–10–10. In no case should a 20–20–20 fertilizer be used due to the potential burning of the seedbed.

Compost Soil Amendment

For seedbeds that have little or no topsoil, are highly acidic, or are lacking sufficient nutrients to sustain a health stand of grass place, and mix certified weed free compost into the seedbed to ensure a good stand of grass.

Biological Growth Stimulant

Use for all permanent seeding, Sodding, and temporary seeding applications. Animal by–products or municipal waste products are not acceptable. Liquid fertilizers are not acceptable, and can cause burning of the seedbed if applied as such.

MULCH APPLICATION TABLE

Mulch	Applicable Slopes (H:V)[1]	Minimum Application Rate (lbs/acre -dry)[2]
Wood Chips	≤ 4:1	500 CY/acre
Straw or Hay with Tackifier	≤ 4:1	2,000
HECP Type 1	≤ 4:1	2,000
HECP Type 2	4:1< S ≤ 3:1	2,500
HECP Type 3	3:1< S ≤ 2:1	3,000
HECP Type 4	2:1< S ≤ 1:1	3,500
	>1:1	4,000 (temp cover only)[3]
Compost Mulch	≤ 2:1	200 CY/acre

1 The maximum allowable continuous slope length for all mulch applications is 50 feet. Slope interruption devices or TRMs are required for continuous slope length longer than 50 feet.

2 Strictly comply with the manufacturer's mixing recommendations for the actual slope steepness and the actual continuous slope length of the application.

3 HECP Type 4 may be used for permanent cover applications on slopes 1:1 or greater at a minimum rate of 4,500 pounds per acre.

ECB and TRM APPLICATION TABLE

ECB/TRM Type[1]	Slope (H:V)[2]	Minimum Slope Length (ft)
Temporary ECB or Type 1 TRM	≤ 2:1	5
Type 2 TRM	≤ 1.5:1	5
Type 3 TRM	≤ 1:1	5

1 Strictly comply with the manufacturer's specifications.

2 The maximum allowable continuous slope length for ECBs is 50 feet. Slope interruption devices or TRMs are required for continuous slope length longer than 50 feet.

Greenville County Standard Notes

Seeding Dates and Rates of Application

Perform seeding during the periods and at the rates specified in the seeding tables. Do not use temporary cover by seeding or permanent seeding for projects when:

- The ground is frozen and/or when the 10–day forecasted low temperature remains below 35 degrees Fahrenheit;
- The ground is excessively wet; or
- The ground is excessively dry (periods of drought) unless watering is specified.

During periods of adverse conditions, use temporary cover by mulch.

Seedbed Preparation

- Ensure that the areas receiving permanent seeding are uniform and conform to the finished grade of the Project.
- Perform minor shaping and evening of uneven and rough areas outside of the graded area in order to provide for more effective erosion control and for ease of subsequent mowing operations.
- Loosen the seedbed (including cut slopes) to a minimum depth of three (3) inches before initiating permanent seeding and temporary seeding.
- An acceptable method of preparing the seedbed on slopes is vertically tracking the seedbed up and seedbed up and down the slope with proper equipment.
- Remove stones larger than two and one–half (2½) inches in any dimension, large dirt clods, roots, or other debris brought to the surface.
- Use compost if good seedbed material is not located on site or results of the soil test show the seedbed is excessively nutrient deficient to the extent of requiring costly fertilizer additions and or have excessively low pH values (lower than 5.0).
- Consider the use of mechanical seed drills to perform permanent seeding on areas where temporary seeding or temporary cover by mulch was previously utilized.

Mulch

Required for all permanent seeding, temporary seeding, and temporary cover applications. Do not use Mulch in areas where concentrated flow is expected. Use HECP Mulch for temporary seeding and temporary cover applications when the application area will require additional grading prior to permanent seeding. Do not use Erosion Control Blankets (ECB) or Turf Reinforcement Matting (TRM) in this situation.

Wood Chip Mulch

Wood chip mulch is not acceptable for seeding applications. If wood chip mulch is used for temporary cover by mulch, it must be removed prior to performing permanent seeding

Straw or Hay Mulch with Tackifier

Use material that is certified weed. Do not use on slopes steeper than 4H:1V. Anchor using one of the following tacking agents:

- Organic or Chemical Tackifier
- Hydraulic Straw Tackifiers
- Emulsified Asphalt

Applying Straw or Hay Mulch

Uniformly apply material at the rate of 2,000 pounds per acre.

Compost Mulch

Only use from producer that participates in the USCC STA program. Do not use materials that have been treated with chemical preservatives as a compost mulch. Do not use mixed municipal solid waste compost.

Hydraulic Erosion Control Products (HECPs)

Use as an allowable mulch for temporary cover by mulch, temporary cover by seeding or permanent cover by seeding applications. Do not use as a channel liner or for areas receiving concentrated flow.

Temporary Erosion Control Blankets (ECB) and Turf Reinforcement Matting (TRM)

Consider for permanent seeding application areas with steep slopes or areas where there is a significant erosion problem or potential for erosion. Use in areas where concentrated flow is expected. Do not use for temporary seeding applications when the application areas will require additional grading or modifications prior to permanent seeding.

Protection of Structures

Cover any parts of bridges, culverts, guardrails, signs, sidewalks, curb and gutters, catch basins, pipe ends, and other structures as necessary to prevent discoloration before spraying HECPs, organic or chemical tackifiers.

Greenville County Standard Notes

Slope Interruption Devices

The maximum allowable continuous slope length for straw or hay mulch, HECPs, compost and ECB applications is 50 feet. Slope interruption devices (such as sediment tubes) or TRMs are required for continuous slope length longer than 50 feet.

Inspection

Ensure that all seed, Sod, fast acting lime, biological growth stimulants, agricultural granular lime, granular fertilizer, straw and hay mulch, HECPs, compost mulch, and ECBs are applied as Specified. The Design Engineer or Landscape Architect, or member of the Design Engineer or Landscape Architect staff must document on–site that these materials are applied correctly by completing and signing proper forms.

Maintenance

Perform all maintenance necessary to keep Stabilization areas in a satisfactory condition until the work is finally accepted. This includes mowing, repairing areas of erosion and washes, and applying additional seed, fertilizer, and mulch to areas where a satisfactory stand of grass has not been achieved.

Mowing

Mow road shoulders and medians when vegetation reaches a height of approximately 18 to 24 inches. Do not perform excessive mowing of Slopes resulting in ruts, furrows or grooves. Do not perform excessive mowing of Slopes that inhibits the establishment of the slope vegetation.Do not perform mowing when soil and weather conditions are such that rutting or other damage to the Project may occur.

Ensure mowing results in a uniform vegetation height of 4 to 6 inches, unless otherwise directed. When utilizing a nurse crop for permanent seeding, mow Millet (no lower than 3 inches) once it reaches a height of 18 inches to reduce competitiveness with the permanent vegetation. Mow Wheat and Rye Grain (no lower than 3 inches) once they reach a height of 6–8 inches to reduce competitiveness with permanent vegetation.

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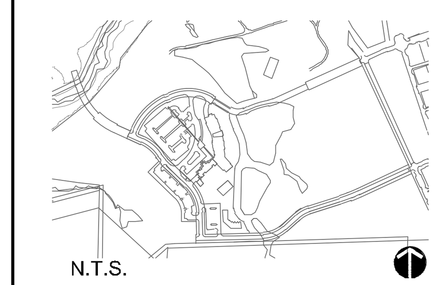
HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

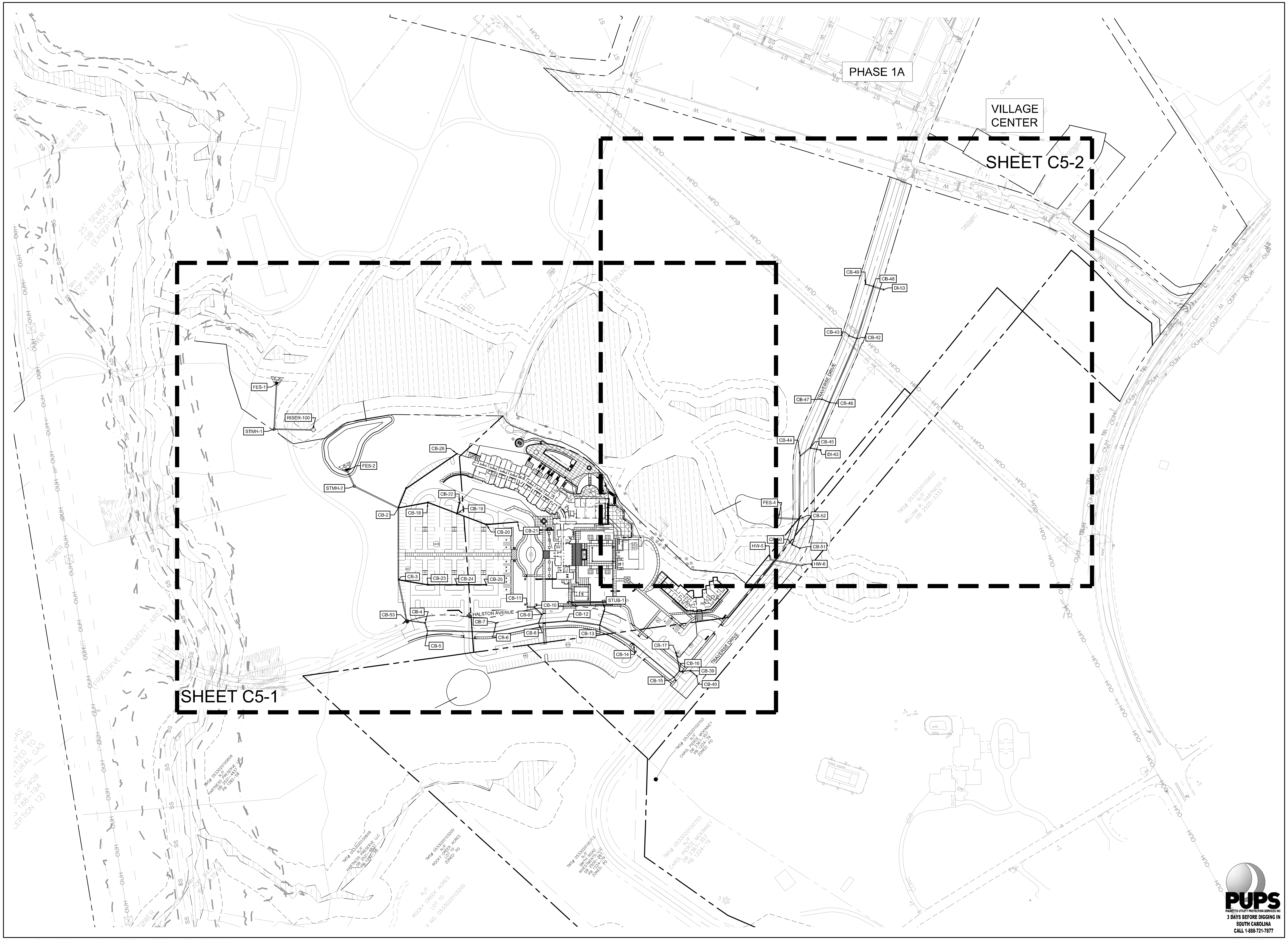
SCALE — NORTH
VERT: N/A
HORZ: NTS
(NOT TO SCALE)

SHEET TITLE

EROSION CONTROL NOTES

SHEET NUMBER

C4-13



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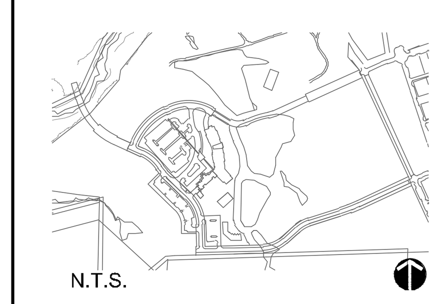

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HORZ: 1"=100'

0 50' 100' 200'

NORTH

SHEET TITLE

OVERALL STORM DRAINAGE PLAN

SHEET NUMBER

C5-0

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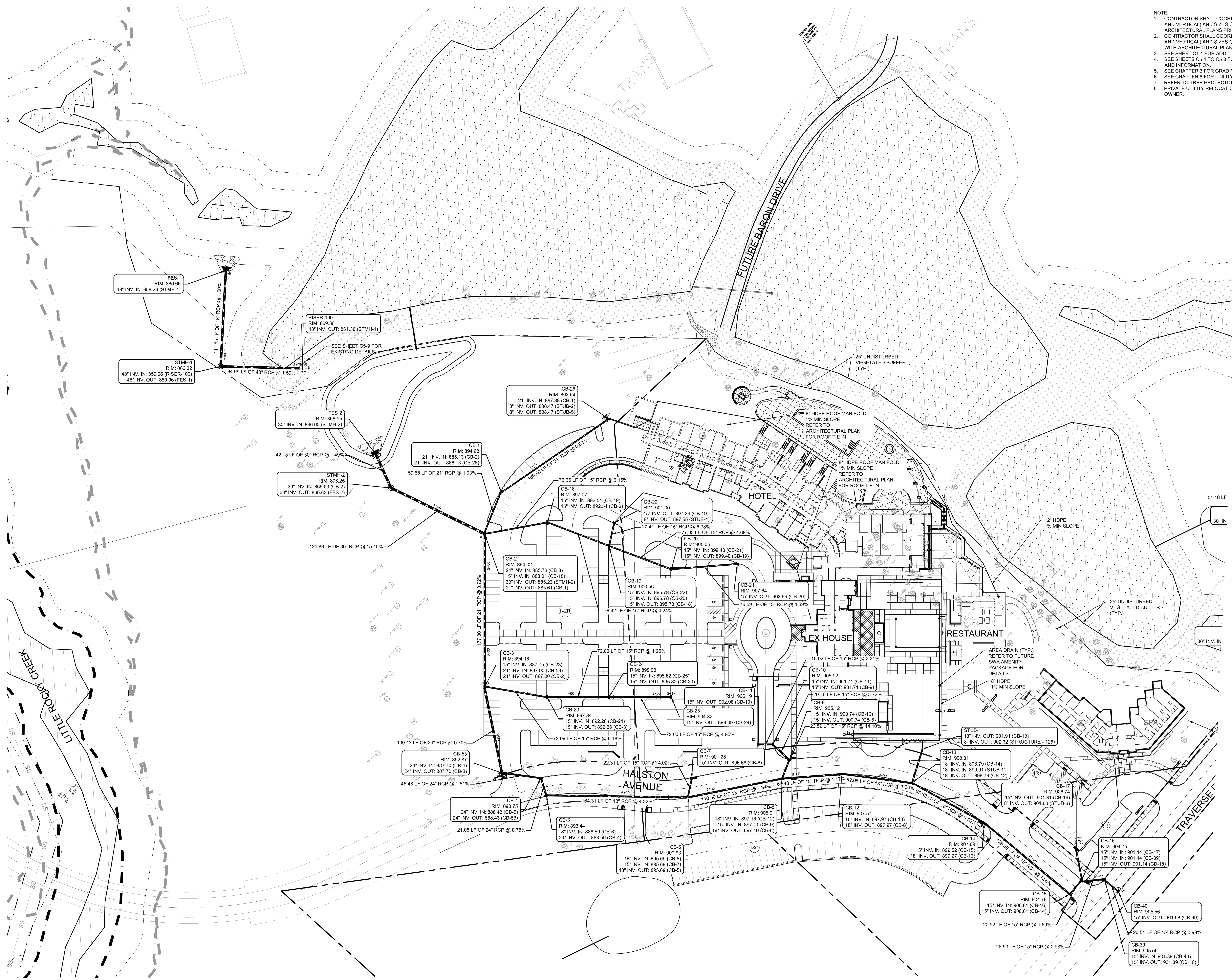

NOTE:
1. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS(HORIZONTAL AND VERTICAL) AND SIZES OF ALL ROOF DRAINAGE LEADERS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS(HORIZONTAL AND VERTICAL) AND SIZES OF ALL LANDSCAPE DRAINAGE LEADERS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
3. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
4. SEE SHEETS C5-1 TO C5-8 FOR ADDITIONAL STORM DRAINAGE DETAILS AND INFORMATION.
5. SEE CHAPTER 3 FOR GRADING INFORMATION.
6. SEE CHAPTER 6 FOR UTILITY INFORMATION.
7. REFER TO TREE PROTECTION PLAN DETAILS.
8. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

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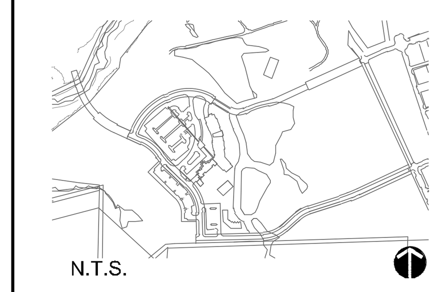
KEY MAP



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HORZ: 1"=50'
0 25' 50' 100'

NORTH

SHEET TITLE
STORM DRAINAGE PLAN

SHEET NUMBER
C5-1

PUPS
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3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877

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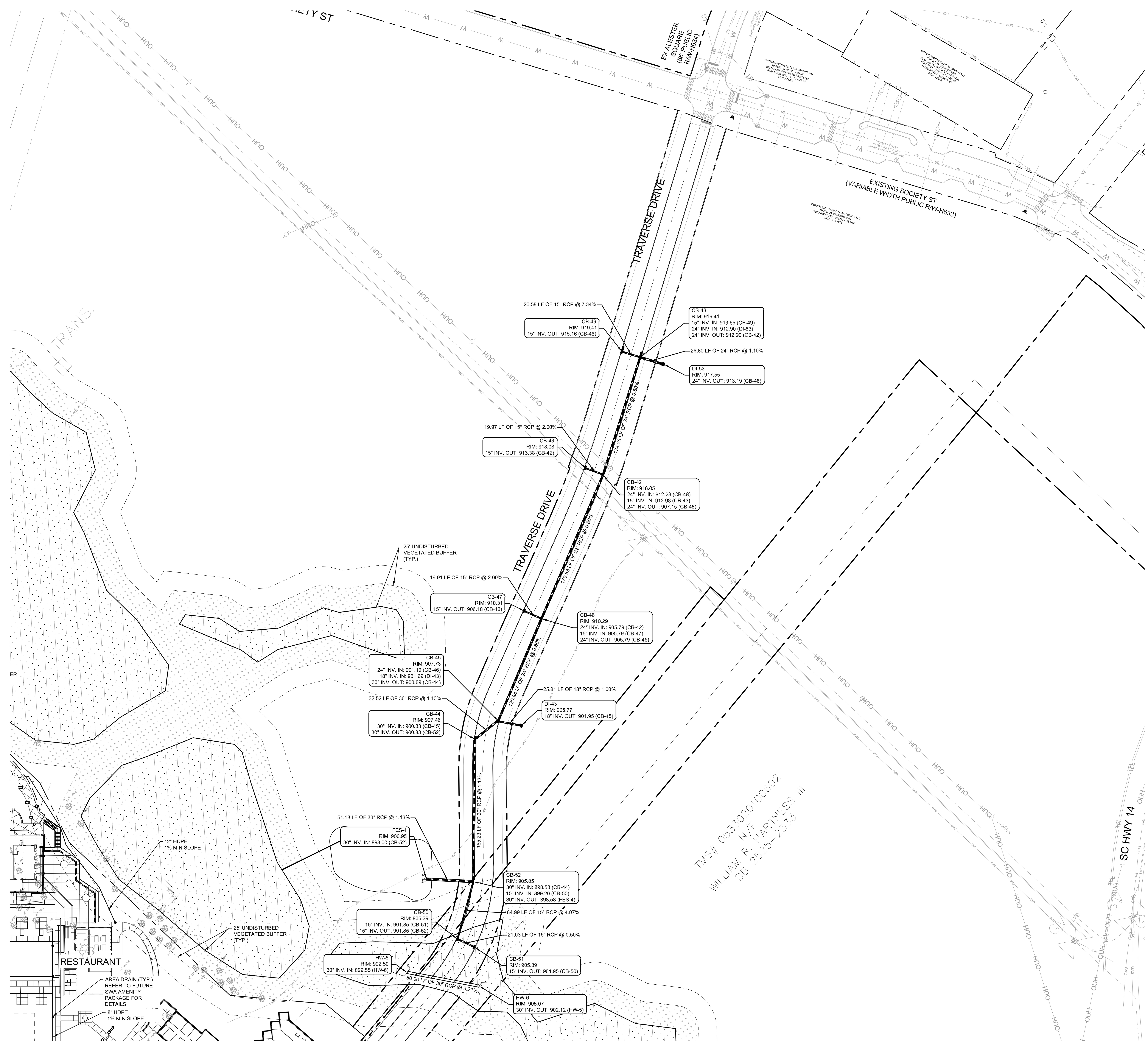

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3. SEE SHEET C1-1 FOR ADDITIONAL NOTES.
4. SEE SHEETS C5-1 TO C5-8 FOR ADDITIONAL STORM DRAINAGE DETAILS AND INFORMATION.
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SCALE

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0 25' 50' 100'

NORTH

SHEET TITLE

STORM DRAINAGE PLAN

SHEET NUMBER

C5-2

PUPS
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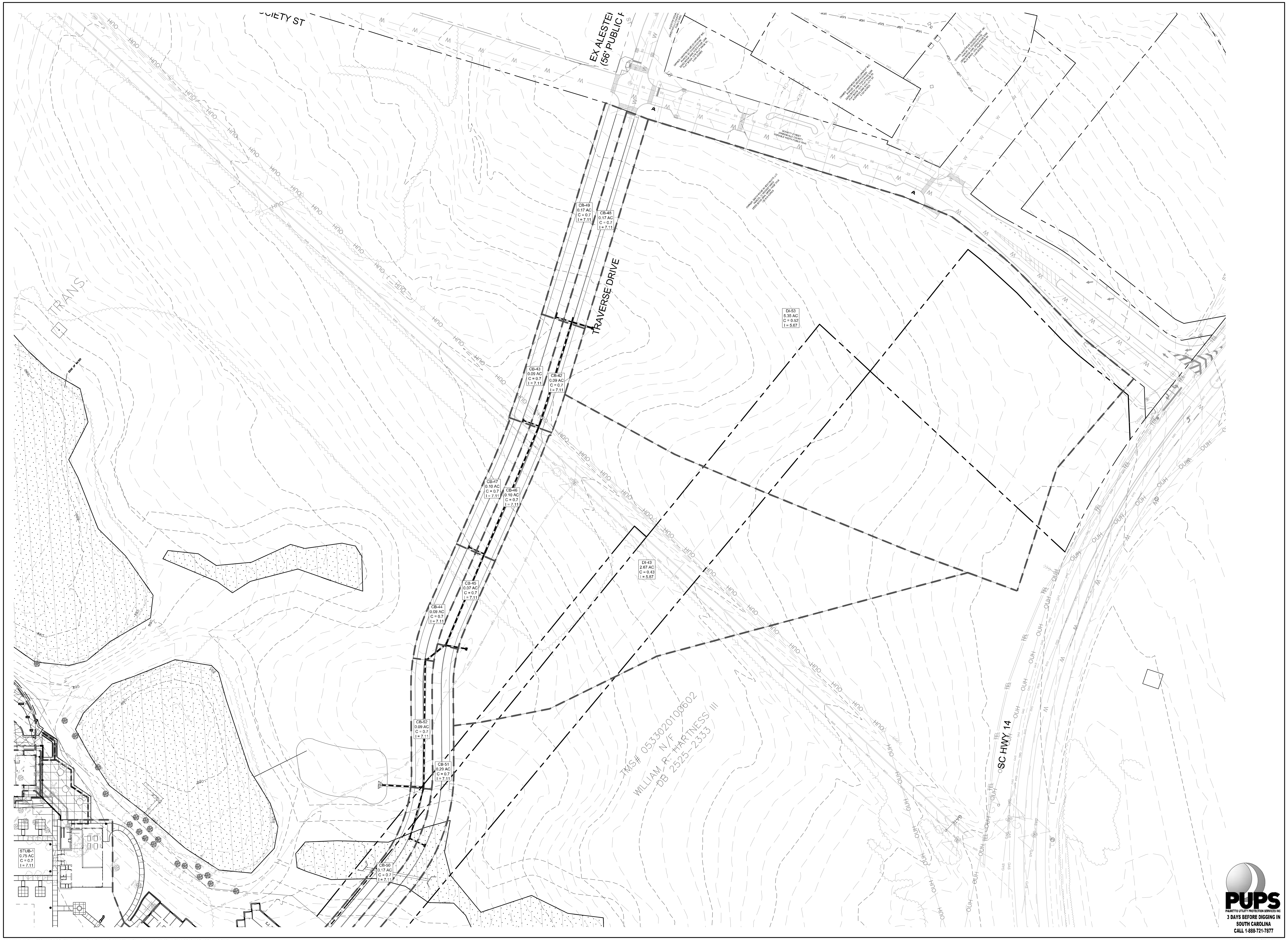
SHEET TITLE

STORM DRAINAGE MAP

SHEET NUMBER

C5-3



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VERT: N/A
HORZ: 1"=50'

0 25' 50' 100'

SHEET TITLE

STORM DRAINAGE MAP

SHEET NUMBER

C5-4

INLETS-10

Line No.	Inlet ID	Drng Area (ac)	Inlet Time (min)	i Inlet (in/hr)	Runoff Coeff (C)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Byp (cfs)	Throat Ht (in)	Curb Len (ft)	Grate Width (ft)	Grate Len (ft)	Gutter Slope (ft/ft)	Cross Sl, Sw (ft/ft)	Cross Sl, Sx (ft/ft)	Inlet Eff (%)	Gutter Spread (ft)
1	CB-52	0.09	6.0	6.96	0.70	0.44	0.00	0.43	0.01	6.0	3.50	2.50	3.50	0.014	0.050	0.020	97	3.42
2	CB-44	0.16	6.0	6.96	0.70	0.78	0.00	0.70	0.08	6.0	3.50	2.50	3.50	0.014	0.050	0.020	90	4.77
3	CB-45	0.14	6.0	6.96	0.70	0.68	0.00	0.62	0.06	6.0	3.50	2.50	3.50	0.014	0.050	0.020	92	4.44
4	CB-46	0.12	6.0	6.96	0.70	0.58	0.00	0.58	0.00	6.0	3.50	2.50	3.50	0.061	0.050	0.020	100	2.48
5	CB-42	0.09	6.0	6.96	0.70	0.44	0.01	0.44	0.01	6.0	3.50	2.50	3.50	0.019	0.050	0.020	98	3.12
6	CB-48	0.17	6.0	6.96	0.70	0.83	0.00	0.72	0.11	6.0	3.50	2.50	3.50	0.010	0.050	0.020	87	5.37
7	CB-49	0.17	6.0	6.96	0.70	0.83	0.00	0.72	0.11	6.0	3.50	2.50	3.50	0.010	0.050	0.020	87	5.37
8	CB-43	0.09	6.0	6.96	0.70	0.44	0.00	0.43	0.01	6.0	3.50	2.50	3.50	0.020	0.050	0.020	98	3.03
9	DI-53	5.35	6.0	6.96	0.52	19.36	0.00	19.36	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	41.11
10	CB-47	0.12	6.0	6.96	0.70	0.58	0.00	0.58	0.00	6.0	3.50	2.50	3.50	0.061	0.050	0.020	100	2.48
11	DI-43	2.67	6.0	6.96	0.43	7.99	0.00	7.99	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	22.56
12	CB-50	0.17	6.0	6.96	0.70	0.83	0.00	0.83	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	4.59
13	CB-51	0.29	6.0	6.96	0.70	1.41	0.00	1.41	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	6.77
14	STMH-2	0.01	6.0	6.96	0.70	0.05	....	....	....	....	....	....	....	....	....	....	....	....
15	CB-2	0.21	6.0	6.96	0.70	1.02	0.00	0.94	0.09	6.0	3.50	2.50	3.50	0.038	0.050	0.020	91	4.22
16	CB-18	0.22	6.0	6.96	0.90	1.38	0.00	1.23	0.15	6.0	3.50	2.50	3.50	0.057	0.050	0.020	89	4.45
17	CB-19	0.18	6.0	6.96	0.90	1.13	0.00	1.04	0.09	6.0	3.50	2.50	3.50	0.052	0.050	0.020	92	4.08
18	CB-20	0.18	6.0	6.96	0.90	1.13	0.00	1.02	0.11	6.0	3.50	2.50	3.50	0.042	0.050	0.020	91	4.33
19	CB-21	0.21	6.0	6.96	0.70	1.02	0.00	0.96	0.06	6.0	3.50	2.50	3.50	0.055	0.050	0.020	94	3.79
20	CB-3	0.43	6.0	6.96	0.90	2.69	0.00	2.69	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	10.68
21	CB-53	0.04	6.0	6.96	0.70	0.19	0.00	0.19	0.00	6.0	3.50	2.50	3.50	0.024	0.050	0.020	100	1.73
22	CB-4	0.21	6.0	6.96	0.70	1.02	0.00	1.02	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	5.36
23	CB-5	0.06	6.0	6.96	0.70	0.29	0.00	0.29	0.00	6.0	3.50	2.50	3.50	0.034	0.050	0.020	100	1.89

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83 -- Return period = 10 Yrs. ; ** Critical depth

INLETS-10

Line No.	Inlet ID	Drng Area (ac)	Inlet Time (min)	i Inlet (in/hr)	Runoff Coeff (C)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Byp (cfs)	Throat Ht (in)	Curb Len (ft)	Grate Width (ft)	Grate Len (ft)	Gutter Slope (ft/ft)	Cross Sl, Sw (ft/ft)	Cross Sl, Sx (ft/ft)	Inlet Eff (%)	Gutter Spread (ft)
24	CB-6	0.09	6.0	6.96	0.70	0.44	0.00	0.44	0.00	6.0	3.50	2.50	3.50	0.028	0.050	0.020	99	2.68
25	CB-8	0.04	6.0	6.96	0.70	0.19	0.00	0.19	0.00	6.0	3.50	2.50	3.50	0.019	0.050	0.020	100	1.81
26	CB-9	0.20	6.0	6.96	0.70	0.97	0.00	0.86	0.11	6.0	3.50	2.50	3.50	0.022	0.050	0.020	89	4.77
27	CB-10	0.12	6.0	6.96	0.70	0.58	0.00	0.57	0.01	6.0	3.50	2.50	3.50	0.033	0.050	0.020	98	3.11
28	CB-11	0.09	6.0	6.96	0.70	0.44	0.00	0.44	0.00	6.0	3.50	2.50	3.50	0.031	0.050	0.020	100	2.58
29	CB-12	0.04	6.0	6.96	0.70	0.19	0.00	0.19	0.00	6.0	3.50	2.50	3.50	0.015	0.050	0.020	100	1.89
30	CB-13	0.04	6.0	6.96	0.70	0.19	0.00	0.19	0.00	6.0	3.50	2.50	3.50	0.019	0.050	0.020	100	1.81
31	STUB-1	0.70	6.0	6.96	0.70	3.41	....	....	....	....	....	....	....	....	....	....	....	....
32	CB-14	0.04	6.0	6.96	0.70	0.19	0.00	0.19	0.00	6.0	3.50	2.50	3.50	0.014	0.050	0.020	100	1.91
33	CB-15	0.08	6.0	6.96	0.70	0.39	0.00	0.39	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	2.63
34	CB-16	0.13	6.0	6.96	0.70	0.63	0.00	0.63	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	3.76
35	CB-39	0.11	6.0	6.96	0.70	0.54	0.00	0.52	0.02	6.0	3.50	2.50	3.50	0.021	0.050	0.020	97	3.42
36	CB-40	0.11	6.0	6.96	0.70	0.54	0.00	0.50	0.03	6.0	3.50	2.50	3.50	0.011	0.050	0.020	94	4.15
37	CB-17	0.42	6.0	6.96	0.70	2.05	0.00	1.56	0.48	6.0	3.50	2.50	3.50	0.029	0.050	0.020	76	6.41
38	CB-23	0.14	6.0	6.96	0.90	0.88	0.00	0.83	0.05	6.0	3.50	2.50	3.50	0.041	0.050	0.020	94	3.77
39	CB-24	0.14	6.0	6.96	0.90	0.88	0.00	0.88	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	4.79
40	CB-25	0.16	6.0	6.96	0.90	1.00	0.00	1.00	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	5.28
41	CB-22	0.24	6.0	6.96	0.90	1.50	0.00	1.19	0.31	6.0	3.50	2.50	3.50	0.018	0.050	0.020	79	6.21
42	CB-7	0.09	6.0	6.96	0.70	0.44	0.00	0.43	0.01	6.0	3.50	2.50	3.50	0.018	0.050	0.020	98	3.15
43	CB-1	0.21	6.0	6.96	0.70	1.02	0.00	0.91	0.11	6.0	3.50	2.50	3.50	0.026	0.050	0.020	89	4.68
44	CB-26	0.21	6.0	6.96	0.70	1.02	0.00	1.02	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	5.36
45	HW-6	10.04	6.0	6.96	0.70	48.90	....	....	....	....	....	....	....	....	....	....	....	....
46	STMH-1	0.01	6.0	6.96	0.70	0.05	....	....	....	....	....	....	....	....	....	....	....	....

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83 -- Return period = 10 Yrs. ; ** Critical depth

INLETS-10

Line No.	Inlet ID	Drng Area (ac)	Inlet Time (min)	i Inlet (in/hr)	Runoff Coeff (C)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Byp (cfs)	Throat Ht (in)	Curb Len (ft)	Grate Width (ft)	Grate Len (ft)	Gutter Slope (ft/ft)	Cross Sl, Sw (ft/ft)	Cross Sl, Sx (ft/ft)	Inlet Eff (%)	Gutter Spread (ft)
47	RISER-100	0.01	6.0	6.96	0.70	0.05	0.00	0.05	0.00	6.0	3.50	2.50	3.50	0.369	0.050	0.020	100	0.62

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83 -- Return period = 10 Yrs. ; ** Critical depth

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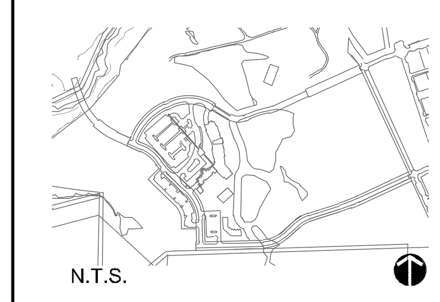
C+TC DESIGN STUDIO

HARTNESS
GREENVILLE

KEY MAP



N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE NORTH

VERT: N/A
HORZ: N/A

SHEET TITLE

STORM DRAINAGE CALCULATIONS

SHEET NUMBER

C5-5

2/3/2020 12:30 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD1017303-STORM CALCS.DWG

ORIGINAL SHEET SIZE: 24" X 36"

STORM

Line No.	Line ID	Gnd/Rim El Dn (ft)	Gnd/Rim El Up (ft)	Inlet ID	Invert Up (ft)	Invert Up (ft)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Incr Q (cfs)	Total Runoff (cfs)	Line Length (ft)	Line Slope (%)	Line Size (in)	Capac Full (cfs)	Vel Ave (ft/s)	n-val Pipe	i Inlet (in/hr)
1	Pipe - 122	900.95	905.85	CB-52	898.58	898.58	0.09	0.70	6.0	0.44	32.49	51.181	1.13	30	43.66	8.61	0.013	6.96
2	Pipe - 122	905.85	907.46	CB-44	900.33	900.33	0.16	0.70	6.0	0.78	30.48	155.231	1.13	30	43.55	7.58	0.013	6.96
3	Pipe - 122	907.46	907.73	CB-45	900.69	900.69	0.14	0.70	6.0	0.68	29.85	32.522	1.11	30	43.15	7.58	0.013	6.96
4	Pipe - 122	907.73	910.29	CB-46	905.79	905.79	0.12	0.70	6.0	0.58	21.92	120.939	3.80	24	44.11	8.72	0.013	6.96
5	Pipe - 122	910.29	918.05	CB-42	907.15	907.15	0.09	0.70	6.0	0.44	21.13	170.830	0.80	24	20.18	7.28	0.013	6.96
6	Pipe - 122	918.05	919.41	CB-48	912.90	912.90	0.17	0.70	6.0	0.83	20.61	134.554	0.50	24	15.96	6.56	0.013	6.96
7	Pipe - 122	919.41	919.41	CB-49	915.16	915.16	0.17	0.70	6.0	0.83	0.83	20.583	7.34	15	17.49	0.67	0.013	6.96
8	Pipe - 122	918.05	918.08	CB-43	913.38	913.38	0.09	0.70	6.0	0.44	0.44	19.974	2.00	15	9.14	3.12	0.013	6.96
9	Pipe - 122	919.41	917.55	DI-53	913.20	913.20	5.35	0.52	6.0	19.36	19.36	26.800	1.12	24	23.93	6.16	0.013	6.96
10	Pipe - 122	910.29	910.31	CB-47	906.18	906.18	0.12	0.70	6.0	0.58	0.58	19.905	1.96	15	9.04	0.48	0.013	6.96
11	Pipe - 122	907.73	905.77	DI-43	901.95	901.95	2.67	0.43	6.0	7.99	7.99	26.000	1.00	18	10.50	6.16	0.013	6.96
12	Pipe - 122	905.85	905.39	CB-50	901.85	901.85	0.17	0.70	6.0	0.83	2.21	64.992	4.08	15	13.04	2.83	0.013	6.96
13	Pipe - 122	905.39	905.39	CB-51	901.95	901.95	0.29	0.70	6.0	1.41	1.41	21.029	0.48	15	4.45	2.71	0.013	6.96
14	Pipe - 122	868.95	878.30	STMH-2	866.63	866.63	0.01	0.70	6.0	0.05	21.49	42.184	1.49	30	50.12	7.42	0.013	6.96
15	Pipe - 122	878.30	894.02	CB-2	885.23	885.23	0.21	0.70	6.0	1.02	21.72	120.855	15.39	30	160.89	6.65	0.013	6.96
16	Pipe - 122	894.02	896.77	CB-18	892.54	892.54	0.22	0.90	6.0	1.38	5.60	73.651	6.15	15	16.01	8.72	0.013	6.96
17	Pipe - 122	896.77	900.56	CB-19	895.78	895.78	0.18	0.90	6.0	1.13	4.40	76.417	4.24	15	13.30	4.66	0.013	6.96
18	Pipe - 122	900.56	904.95	CB-20	899.40	899.40	0.18	0.90	6.0	1.13	2.03	77.052	4.70	15	14.00	3.02	0.013	6.96
19	Pipe - 122	904.95	907.33	CB-21	902.99	902.99	0.21	0.70	6.0	1.02	1.02	76.588	4.69	15	13.98	2.47	0.013	6.96
20	Pipe - 122	894.02	894.15	CB-3	887.50	887.50	0.43	0.90	6.0	2.69	15.29	176.999	1.00	24	22.62	7.10	0.013	6.96
21	Pipe - 122	894.15	891.86	CB-53	887.70	887.70	0.04	0.70	6.0	0.19	10.87	100.426	0.20	24	10.09	3.46	0.013	6.96
22	Pipe - 122	891.86	893.88	CB-4	888.43	888.43	0.21	0.70	6.0	1.02	10.77	45.477	1.61	24	28.66	3.76	0.013	6.96
23	Pipe - 122	893.88	893.65	CB-5	888.59	888.59	0.06	0.70	6.0	0.29	9.93	21.051	0.76	24	19.72	4.32	0.013	6.96

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83 -- Return period = 10 Yrs. ; ** Critical depth

STORM

Line No.	Line ID	Gnd/Rim El Dn (ft)	Gnd/Rim El Up (ft)	Inlet ID	Invert Up (ft)	Invert Up (ft)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Incr Q (cfs)	Total Runoff (cfs)	Line Length (ft)	Line Slope (%)	Line Size (in)	Capac Full (cfs)	Vel Ave (ft/s)	n-val Pipe	i Inlet (in/hr)
24	Pipe - 122	893.65	900.72	CB-6	895.69	895.69	0.09	0.70	6.0	0.44	9.83	164.310	4.32	18	21.83	6.67	0.013	6.96
25	Pipe - 122	900.72	904.32	CB-8	897.16	897.16	0.04	0.70	6.0	0.19	9.16	110.503	1.33	18	12.11	6.10	0.013	6.96
26	Pipe - 122	904.32	904.64	CB-9	900.74	900.74	0.20	0.70	6.0	0.97	1.90	23.589	14.12	15	24.26	2.82	0.013	6.96
27	Pipe - 122	904.64	907.05	CB-10	901.71	901.71	0.12	0.70	6.0	0.58	0.99	26.105	3.72	15	12.45	2.47	0.013	6.96
28	Pipe - 122	907.05	907.49	CB-11	902.08	902.08	0.09	0.70	6.0	0.44	0.44	16.916	2.19	15	9.55	1.87	0.013	6.96
29	Pipe - 122	904.32	906.45	CB-12	897.97	897.97	0.04	0.70	6.0	0.19	7.29	69.484	1.17	18	11.34	5.24	0.013	6.96
30	Pipe - 122	906.45	908.65	CB-13	898.79	898.79	0.04	0.70	6.0	0.19	7.19	82.051	1.00	18	10.50	5.49	0.013	6.96
31	Pipe - 122	908.65	903.71	STUB-1	901.91	901.91	0.70	0.70	6.0	3.41	3.41	41.100	4.87	18	23.17	6.78	0.013	6.96
32	Pipe - 122	908.65	907.09	CB-14	899.27	899.27	0.04	0.70	6.0	0.19	4.02	95.622	0.50	18	7.44	3.74	0.013	6.96
33	Pipe - 122	907.09	904.76	CB-15	900.81	900.81	0.08	0.70	6.0	0.39	3.93	128.878	1.00	15	6.46	5.12	0.013	6.96
34	Pipe - 122	904.76	904.76	CB-16	901.14	901.14	0.13	0.70	6.0	0.63	3.57	20.917	1.58	15	8.11	4.43	0.013	6.96
35	Pipe - 122	904.76	905.57	CB-39	901.39	901.39	0.11	0.70	6.0	0.54	1.04	26.902	0.93	15	6.22	2.20	0.013	6.96
36	Pipe - 122	905.57	905.56	CB-40	901.58	901.58	0.11	0.70	6.0	0.54	0.54	20.542	0.92	15	6.21	2.06	0.013	6.96
37	Pipe - 122	904.76	906.66	CB-17	901.31	901.31	0.42	0.70	6.0	2.05	2.05	33.460	0.51	15	4.60	2.96	0.013	6.96
38	Pipe - 122	894.15	897.84	CB-23	892.26	892.26	0.14	0.90	6.0	0.88	2.54	72.993	6.34	15	16.26	3.05	0.013	6.96
39	Pipe - 122	897.84	900.88	CB-24	895.82	895.82	0.14	0.90	6.0	0.88	1.78	72.000	4.94	15	14.36	3.21	0.013	6.96
40	Pipe - 122	900.88	904.28	CB-25	899.39	899.39	0.16	0.90	6.0	1.00	1.00	72.000	4.96	15	14.38	2.53	0.013	6.96
41	Pipe - 122	900.56	900.22	CB-22	897.26	897.26	0.24	0.90	6.0	1.50	1.50	27.415	5.40	15	15.00	2.55	0.013	6.96
42	Pipe - 122	900.72	900.96	CB-7	896.58	896.58	0.09	0.70	6.0	0.44	0.44	22.312	3.99	15	12.90	1.39	0.013	6.96
43	Pipe - 122	894.02	894.65	CB-1	886.13	886.13	0.21	0.70	6.0	1.02	1.67	50.650	1.03	21	16.05	2.11	0.013	6.96
44	Pipe - 122	894.65	893.52	CB-26	887.38	887.38	0.21	0.70	6.0	1.02	1.02	151.000	0.83	21	14.41	2.43	0.013	6.96
45	Pipe - 122	902.50	905.07	HW-6	902.12	902.12	10.04	0.70	6.0	48.90	48.90	80.000	3.21	30	73.51	10.18	0.013	6.96
46	Pipe - 122	860.66	866.32	STMH-1	859.96	859.96	0.01	0.70	6.0	0.05	0.01	111.151	1.50	48	176.08	0.81	0.013	6.96

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83 -- Return period = 10 Yrs. ; ** Critical depth

STORM

Line No.	Line ID	Gnd/Rim El Dn (ft)	Gnd/Rim El Up (ft)	Inlet ID	Invert Up (ft)	Invert Up (ft)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Incr Q (cfs)	Total Runoff (cfs)	Line Length (ft)	Line Slope (%)	Line Size (in)	Capac Full (cfs)	Vel Ave (ft/s)	n-val Pipe	i Inlet (in/hr)
47	Pipe - 122	866.32	869.08	RISER-100	861.38	861.38	0.01	0.70	6.0	0.05	0.05	94.989	1.49	48	175.63	1.33	0.013	6.96

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 88.24 / (Inlet time + 15.50) ^ 0.83 -- Return period = 10 Yrs. ; ** Critical depth

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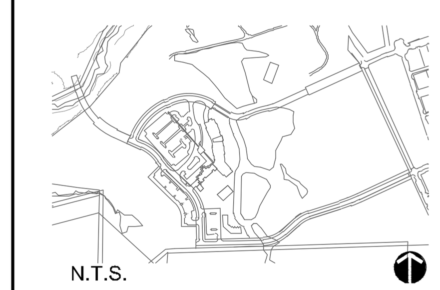
HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE NORTH

VERT: N/A
HORZ: N/A

SHEET TITLE

STORM DRAINAGE CALCULATIONS

SHEET NUMBER

C5-6

2/3/2020 12:30 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-STORM CALCS.DWG

ORIGINAL SHEET SIZE: 24" X 36"

INLETS-2

Line No.	Inlet ID	Drng Area (ac)	Inlet Time (min)	i Inlet (in/hr)	Runoff Coeff (C)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Byp (cfs)	Throat Ht (in)	Curb Len (ft)	Grate Width (ft)	Grate Len (ft)	Gutter Slope (ft/ft)	Cross Sl, Sw (ft/ft)	Cross Sl, Sx (ft/ft)	Inlet Eff (%)	Gutter Spread (ft)
1	CB-52	0.09	6.0	5.43	0.70	0.34	0.00	0.34	0.00	6.0	3.50	2.50	3.50	0.014	0.050	0.020	99	2.89
2	CB-44	0.16	6.0	5.43	0.70	0.61	0.00	0.57	0.04	6.0	3.50	2.50	3.50	0.014	0.050	0.020	93	4.17
3	CB-45	0.14	6.0	5.43	0.70	0.53	0.00	0.51	0.03	6.0	3.50	2.50	3.50	0.014	0.050	0.020	95	3.86
4	CB-46	0.12	6.0	5.43	0.70	0.46	0.00	0.46	0.00	6.0	3.50	2.50	3.50	0.061	0.050	0.020	100	2.00
5	CB-42	0.09	6.0	5.43	0.70	0.34	0.00	0.34	0.00	6.0	3.50	2.50	3.50	0.019	0.050	0.020	100	2.58
6	CB-48	0.17	6.0	5.43	0.70	0.65	0.00	0.59	0.06	6.0	3.50	2.50	3.50	0.010	0.050	0.020	91	4.73
7	CB-49	0.17	6.0	5.43	0.70	0.65	0.00	0.59	0.06	6.0	3.50	2.50	3.50	0.010	0.050	0.020	91	4.73
8	CB-43	0.09	6.0	5.43	0.70	0.34	0.00	0.34	0.00	6.0	3.50	2.50	3.50	0.020	0.050	0.020	100	2.52
9	DI-53	5.35	6.0	5.43	0.52	15.12	0.00	15.12	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	34.79
10	CB-47	0.12	6.0	5.43	0.70	0.46	0.00	0.46	0.00	6.0	3.50	2.50	3.50	0.061	0.050	0.020	100	2.00
11	DI-43	2.67	6.0	5.43	0.43	6.24	0.00	6.24	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	19.06
12	CB-50	0.17	6.0	5.43	0.70	0.65	0.00	0.65	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	3.82
13	CB-51	0.29	6.0	5.43	0.70	1.10	0.00	1.10	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	5.67
14	STMH-2	0.01	6.0	5.43	0.70	0.04	....	....	....	....	....	....	....	....	....	....	....	....
15	CB-2	0.21	6.0	5.43	0.70	0.80	0.00	0.76	0.04	6.0	3.50	2.50	3.50	0.038	0.050	0.020	95	3.65
16	CB-18	0.22	6.0	5.43	0.90	1.08	0.00	1.01	0.07	6.0	3.50	2.50	3.50	0.057	0.050	0.020	94	3.86
17	CB-19	0.18	6.0	5.43	0.90	0.88	0.00	0.84	0.04	6.0	3.50	2.50	3.50	0.052	0.050	0.020	96	3.51
18	CB-20	0.18	6.0	5.43	0.90	0.88	0.00	0.83	0.05	6.0	3.50	2.50	3.50	0.042	0.050	0.020	94	3.75
19	CB-21	0.21	6.0	5.43	0.70	0.80	0.00	0.78	0.02	6.0	3.50	2.50	3.50	0.055	0.050	0.020	97	3.24
20	CB-3	0.43	6.0	5.43	0.90	2.10	0.00	2.10	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	8.98
21	CB-53	0.04	6.0	5.43	0.70	0.15	0.00	0.15	0.00	6.0	3.50	2.50	3.50	0.024	0.050	0.020	100	1.58
22	CB-4	0.21	6.0	5.43	0.70	0.80	0.00	0.80	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	4.47
23	CB-5	0.06	6.0	5.43	0.70	0.23	0.00	0.23	0.00	6.0	3.50	2.50	3.50	0.034	0.050	0.020	100	1.72

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 69.87 / (Inlet time + 13.10) ^ 0.87 -- Return period = 2 Yrs. ; ** Critical depth

INLETS-2

Line No.	Inlet ID	Drng Area (ac)	Inlet Time (min)	i Inlet (in/hr)	Runoff Coeff (C)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Byp (cfs)	Throat Ht (in)	Curb Len (ft)	Grate Width (ft)	Grate Len (ft)	Gutter Slope (ft/ft)	Cross Sl, Sw (ft/ft)	Cross Sl, Sx (ft/ft)	Inlet Eff (%)	Gutter Spread (ft)
24	CB-6	0.09	6.0	5.43	0.70	0.34	0.00	0.34	0.00	6.0	3.50	2.50	3.50	0.028	0.050	0.020	100	2.19
25	CB-8	0.04	6.0	5.43	0.70	0.15	0.00	0.15	0.00	6.0	3.50	2.50	3.50	0.019	0.050	0.020	100	1.65
26	CB-9	0.20	6.0	5.43	0.70	0.76	0.00	0.70	0.06	6.0	3.50	2.50	3.50	0.022	0.050	0.020	93	4.16
27	CB-10	0.12	6.0	5.43	0.70	0.46	0.00	0.45	0.00	6.0	3.50	2.50	3.50	0.033	0.050	0.020	100	2.60
28	CB-11	0.09	6.0	5.43	0.70	0.34	0.00	0.34	0.00	6.0	3.50	2.50	3.50	0.031	0.050	0.020	100	2.09
29	CB-12	0.04	6.0	5.43	0.70	0.15	0.00	0.15	0.00	6.0	3.50	2.50	3.50	0.015	0.050	0.020	100	1.72
30	CB-13	0.04	6.0	5.43	0.70	0.15	0.00	0.15	0.00	6.0	3.50	2.50	3.50	0.019	0.050	0.020	100	1.65
31	STUB-1	0.70	6.0	5.43	0.70	2.66	....	....	....	....	....	....	....	....	....	....	....	....
32	CB-14	0.04	6.0	5.43	0.70	0.15	0.00	0.15	0.00	6.0	3.50	2.50	3.50	0.014	0.050	0.020	100	1.74
33	CB-15	0.08	6.0	5.43	0.70	0.30	0.00	0.30	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	2.63
34	CB-16	0.13	6.0	5.43	0.70	0.49	0.00	0.49	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	3.11
35	CB-39	0.11	6.0	5.43	0.70	0.42	0.00	0.41	0.00	6.0	3.50	2.50	3.50	0.021	0.050	0.020	99	2.89
36	CB-40	0.11	6.0	5.43	0.70	0.42	0.00	0.40	0.01	6.0	3.50	2.50	3.50	0.011	0.050	0.020	97	3.59
37	CB-17	0.42	6.0	5.43	0.70	1.60	0.00	1.30	0.30	6.0	3.50	2.50	3.50	0.029	0.050	0.020	81	5.71
38	CB-23	0.14	6.0	5.43	0.90	0.68	0.00	0.67	0.02	6.0	3.50	2.50	3.50	0.041	0.050	0.020	97	3.22
39	CB-24	0.14	6.0	5.43	0.90	0.68	0.00	0.68	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	3.99
40	CB-25	0.16	6.0	5.43	0.90	0.78	0.00	0.78	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	4.41
41	CB-22	0.24	6.0	5.43	0.90	1.17	0.00	0.99	0.19	6.0	3.50	2.50	3.50	0.018	0.050	0.020	84	5.51
42	CB-7	0.09	6.0	5.43	0.70	0.34	0.00	0.34	0.00	6.0	3.50	2.50	3.50	0.018	0.050	0.020	100	2.63
43	CB-1	0.21	6.0	5.43	0.70	0.80	0.00	0.74	0.06	6.0	3.50	2.50	3.50	0.026	0.050	0.020	93	4.08
44	CB-26	0.21	6.0	5.43	0.70	0.80	0.00	0.80	0.00	6.0	3.50	2.50	3.50	Sag	0.050	0.020	100	4.47
45	HW-6	10.04	6.0	5.43	0.70	38.19	....	....	....	....	....	....	....	....	....	....	....	....
46	STMH-1	0.01	6.0	5.43	0.70	0.04	....	....	....	....	....	....	....	....	....	....	....	....

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 69.87 / (Inlet time + 13.10) ^ 0.87 -- Return period = 2 Yrs. ; ** Critical depth

INLETS-2

Line No.	Inlet ID	Drng Area (ac)	Inlet Time (min)	i Inlet (in/hr)	Runoff Coeff (C)	Incr Q (cfs)	Q Carry (cfs)	Q Capt (cfs)	Q Byp (cfs)	Throat Ht (in)	Curb Len (ft)	Grate Width (ft)	Grate Len (ft)	Gutter Slope (ft/ft)	Cross Sl, Sw (ft/ft)	Cross Sl, Sx (ft/ft)	Inlet Eff (%)	Gutter Spread (ft)
47	RISER-100	0.01	6.0	5.43	0.70	0.04	0.00	0.04	0.00	6.0	3.50	2.50	3.50	0.369	0.050	0.020	100	0.56

Project File: New.stm | Number of lines: 47 | Date: 1/10/2020

NOTES: Intensity = 69.87 / (Inlet time + 13.10) ^ 0.87 -- Return period = 2 Yrs. ; ** Critical depth

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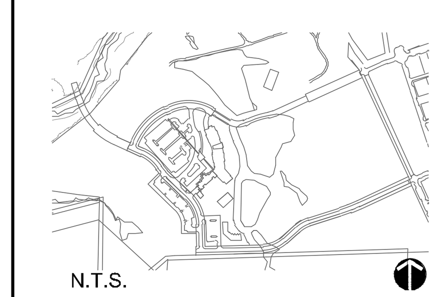
770-676-7600 | fax 770-676-9600
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE | NORTH

VERT: N/A
HORZ: N/A

SHEET TITLE

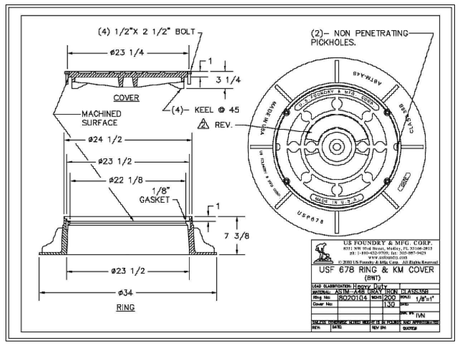
STORM DRAINAGE CALCULATIONS

SHEET NUMBER

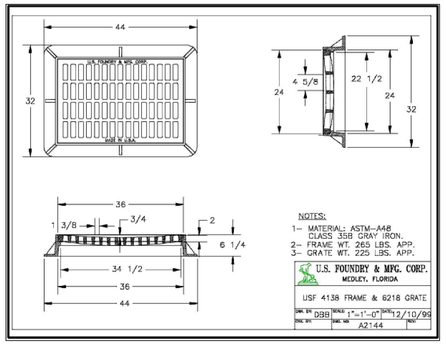
C5-7

2/3/2020 12:30 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD1017303-STORM CALCS.DWG

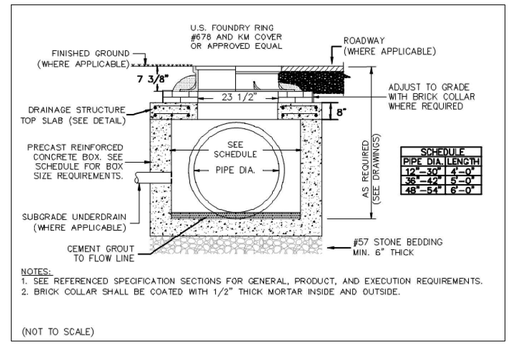
ORIGINAL SHEET SIZE: 24" X 36"



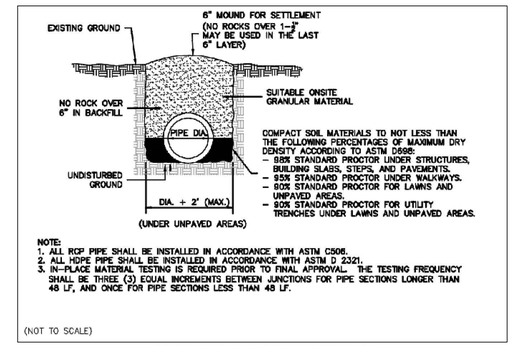
JUNCTION BOX RING AND MANHOLE COVER
(NTS)



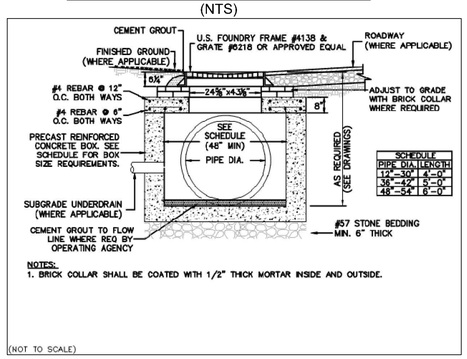
FRAME AND GRATE FOR CATCH BASIN
(NTS)



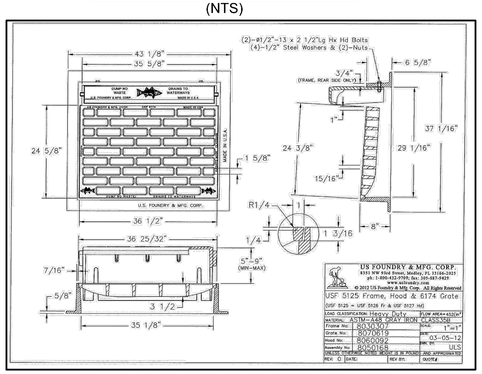
JUNCTION BOX
(NTS)



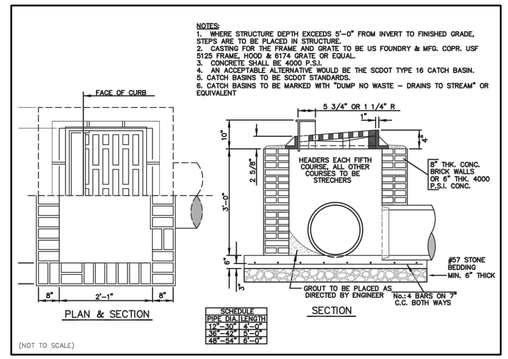
STORM DRAINAGE PIPE TRENCH
(NTS)



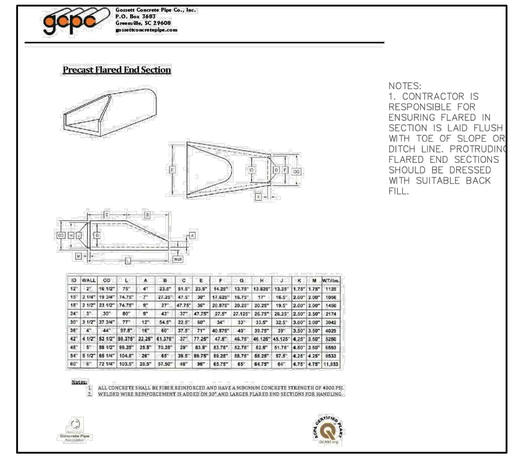
CATCH BASIN
(NTS)



FRAME, HOOD, AND GRATE FOR CURB INLET
(NTS)



CURB INLET (SCDOT TYPE 1) (NTS)



FLARED END SECTION
(NTS)

NOTES:
1. THE APRON SHALL BE CONSTRUCTED WITH NO SLOPE ALONG ITS LENGTH (0.0% GRADE). THE INVERT ELEVATION OF THE DOWNSTREAM END OF THE APRON SHALL BE NEARLY EQUAL TO THE ELEVATION OF THE INVERT OF THE RECEIVING CHANNEL. THERE SHALL BE NO OVERFALL AT THE END OF THE APRON.

2. IF THE PIPE DISCHARGES INTO A WELL–DEFINED CHANNEL, THE SIDE SLOPES OF THE CHANNEL SHALL NOT BE STEEPER THAN 2:1.

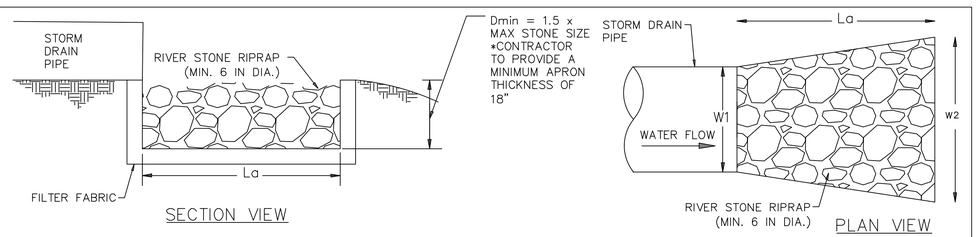
3. THE APRON SHALL BE LOCATED SO THAT THERE ARE NO BENDS IN THE HORIZONTAL ALIGNMENT.

4. GEOTEXTILES SHOULD BE USED AS A SEPARATOR BETWEEN THE GRADED STONE, THE SOIL BASE, AND THE ABUTMENTS. THE GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288–96 SECTION 7.5 PERMANENT EROSION CONTROL RECOMMENDATIONS. THE GEOTEXTILE SHOULD BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS.

5. ENSURE THAT THE SUBGRADE FOR THE FILTER FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL.

6. GEOTEXTILE MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIVER ROCK AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.

7. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGEATION.



RIPRAP APRON DIMENSIONS

OUTFALL	PIPE SIZE (IN)	APRON LENGTH (La)	APRON WIDTH (W1)	APRON WIDTH (W2)	AVERAGE STONE DIAMETER (d50)	APRON THICKNESS (Dmin)
OUTFALL AT	30"	16.0'	7.5'	23.5'	6"	13.5"
OUTFALL AT	24"	9.0'	6.0'	9.6'	6"	13.5"
OUTFALL AT	18"	9.0'	4.5'	13.5'	6"	13.5"

**REFERENC
GRADING PL
FOR STRUCT
LOCATIONS.

RIP RAP OUTLET PROTECTION
(NTS)

LandDesign.
223 NORTH GRAHAM STREET
CHARLOTTE, NC 28202
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SC ENG. FIRM LICENSE # C01396

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ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

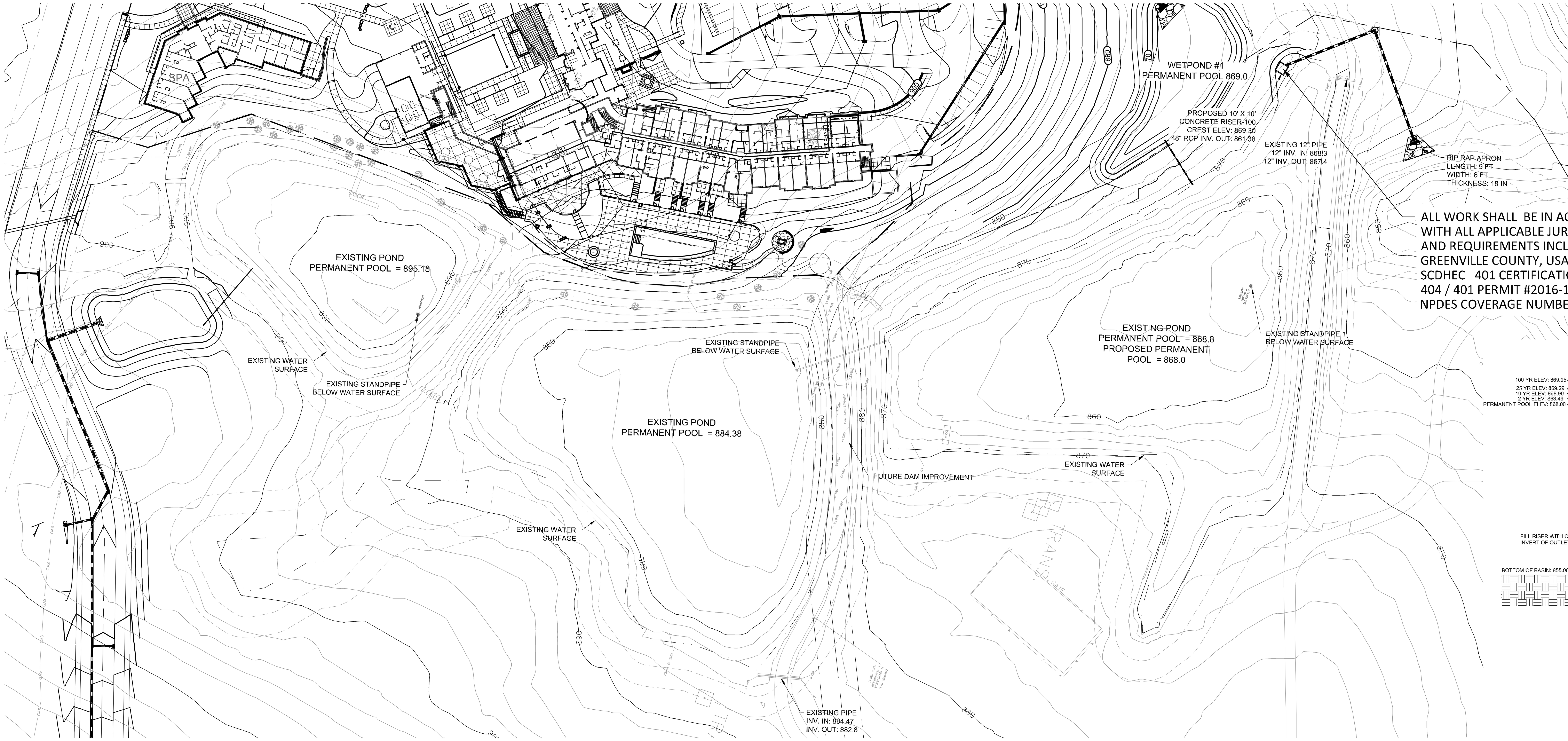
NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

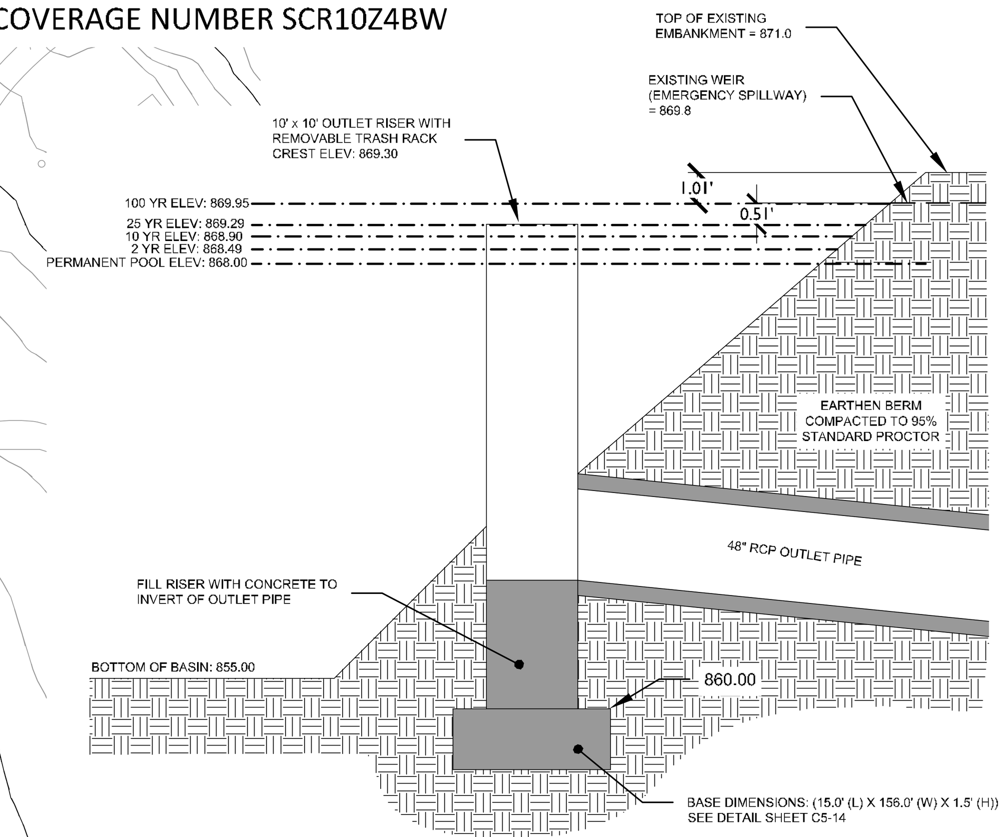
SCALE
NORTH
VERT: N/A
HORZ: 1"=30'
0 15' 30' 60'

SHEET TITLE
STORM DRAINAGE DETAILS

SHEET NUMBER
C5-8



ALL WORK SHALL BE IN ACCORDANCE
WITH ALL APPLICABLE JURISDICTIONS
AND REQUIREMENTS INCLUDING
GREENVILLE COUNTY, USAOCE AND
SCDHEC 401 CERTIFICATIONS.
404 / 401 PERMIT #2016-1064
NPDES COVERAGE NUMBER SCR10Z4BW

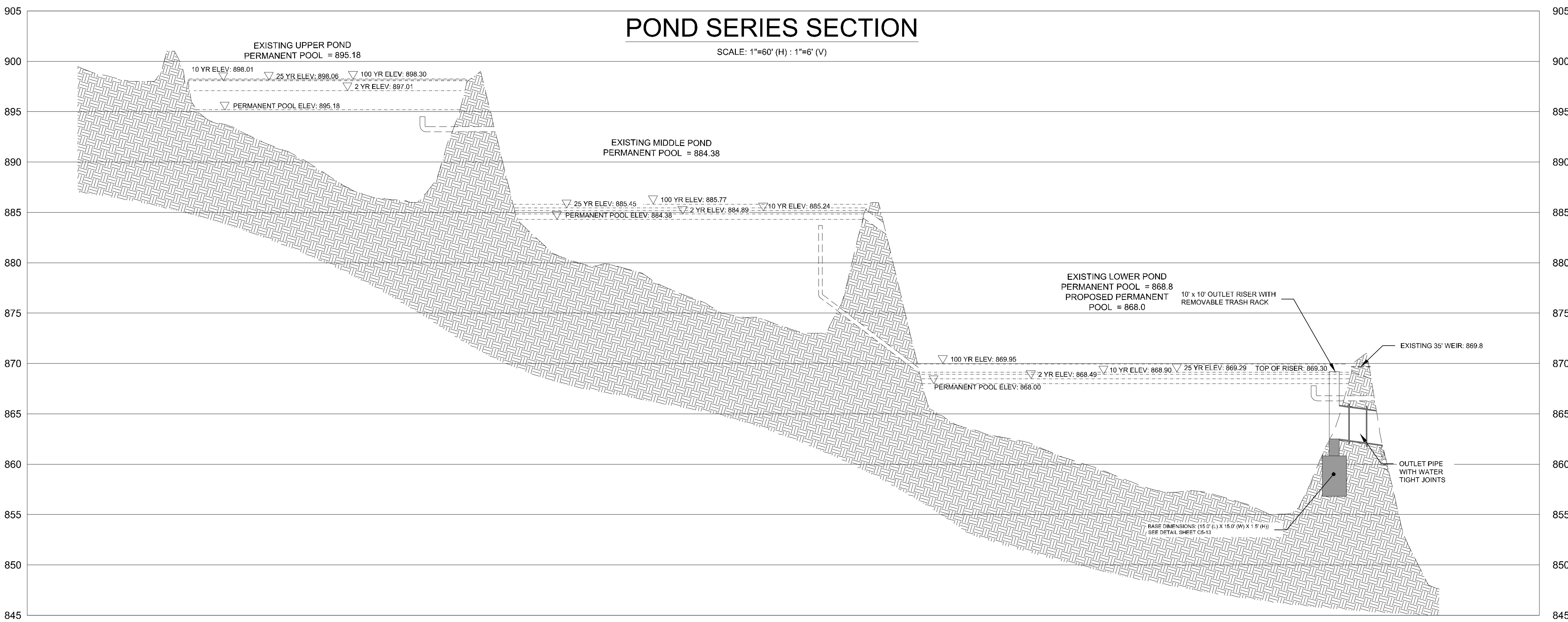


RISER-100 SCHEMATIC

N.T.S

POND SERIES SECTION

SCALE: 1"=60' (H) : 1"=6' (V)



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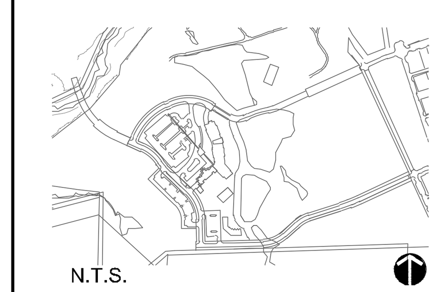
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

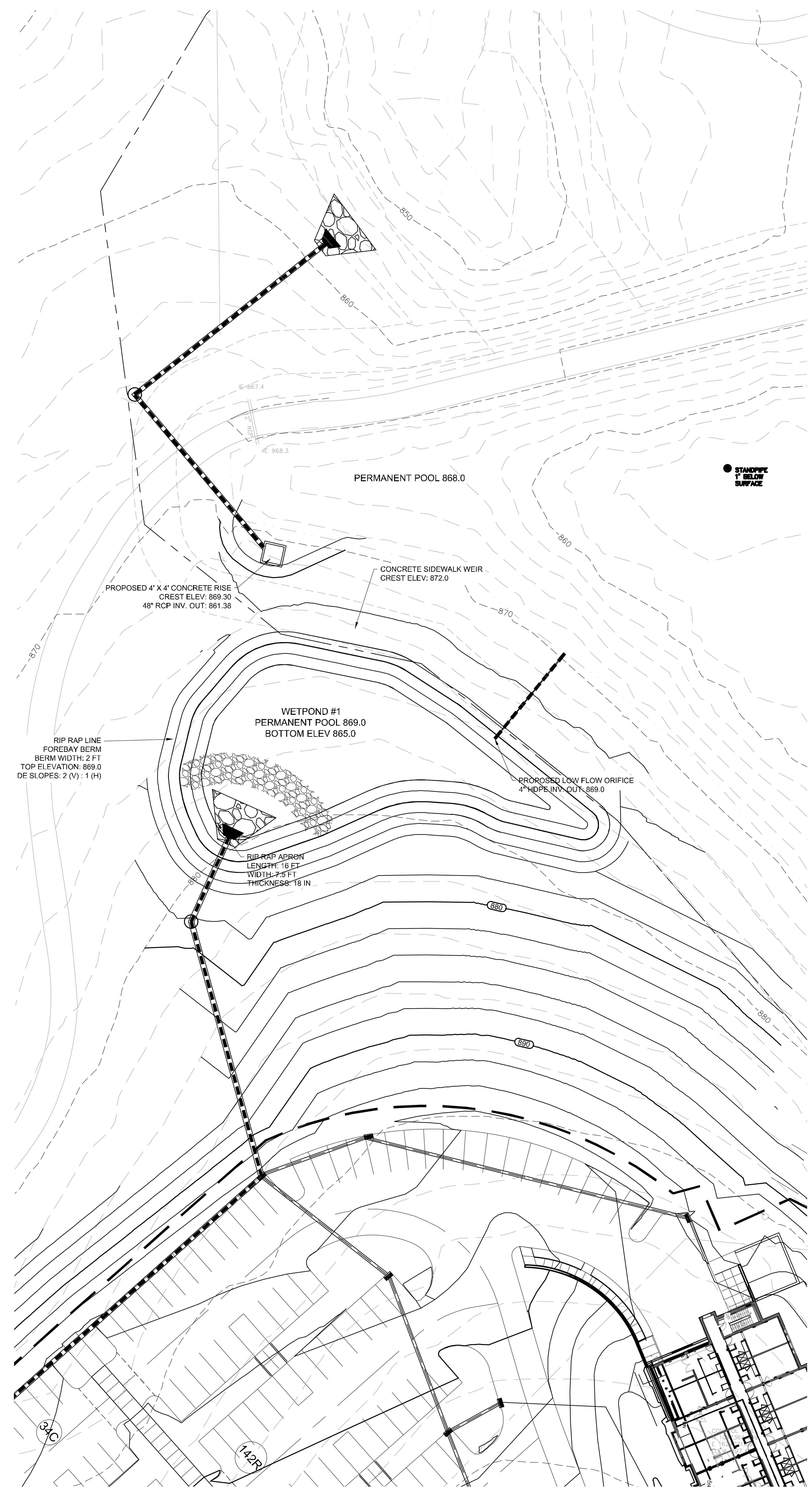
NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
NORTH
VERT: 1"=6'
HORZ: 1"=60'
0 30' 60' 120'

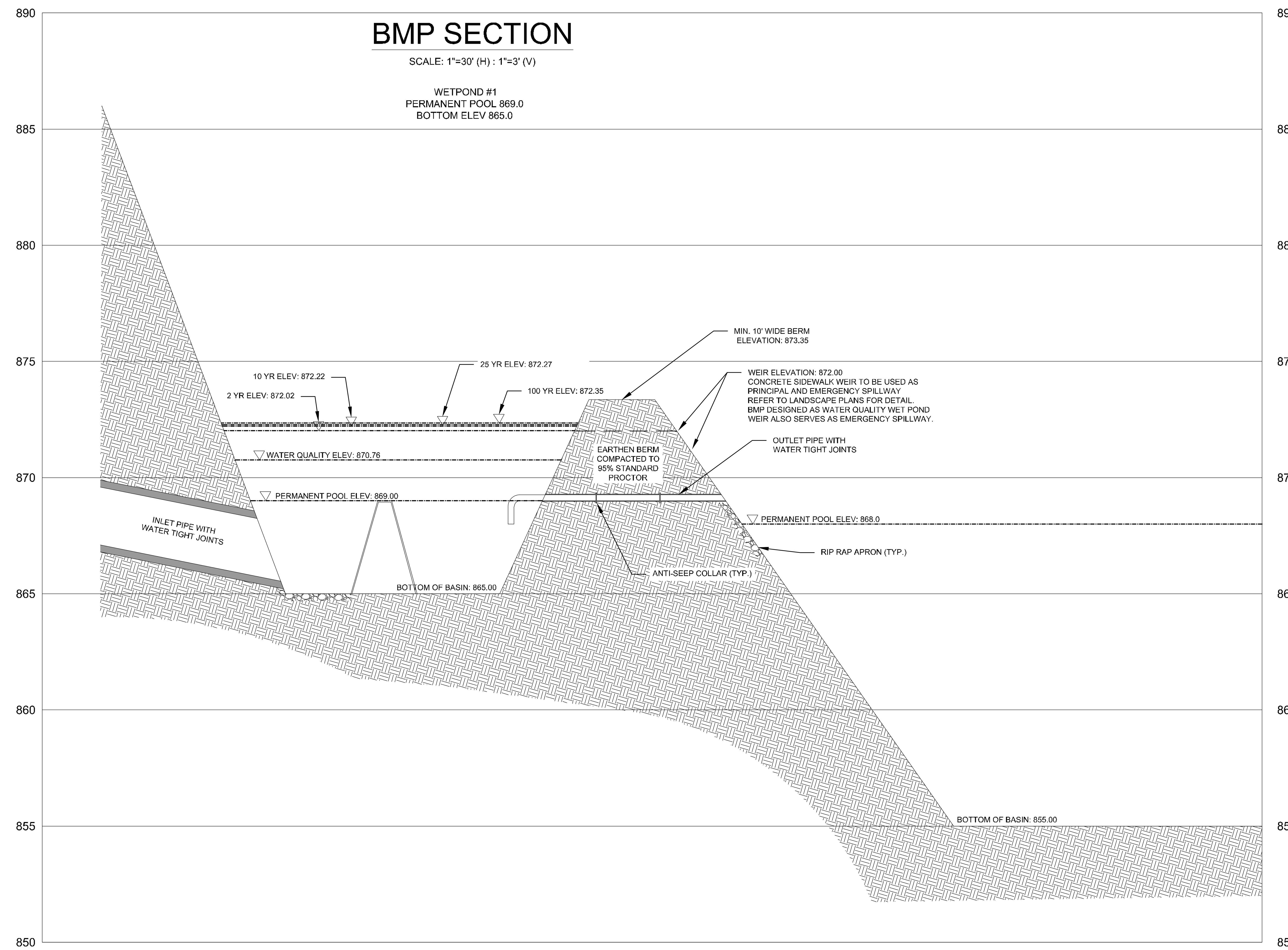
SHEET TITLE
DETENTION POND PLAN & SECTION

SHEET NUMBER
C5-9



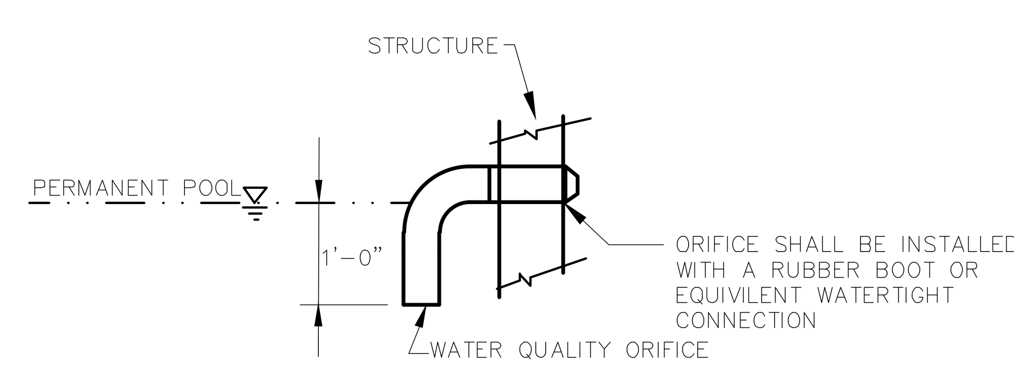
BMP SECTION

SCALE: 1"=30' (H) : 1"=3' (V)



LEGEND:

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR ELEVATION
- DRAINAGE EASEMENT
- STORM SEWER
- DRAINAGE BOUNDARY
- CATCH BASIN (CB)
- DROP INLET (DI)
- STORM MANHOLE



PVC WATER QUALITY ORIFICE DETAIL

MINIMUM MAINTENANCE SCHEDULE:

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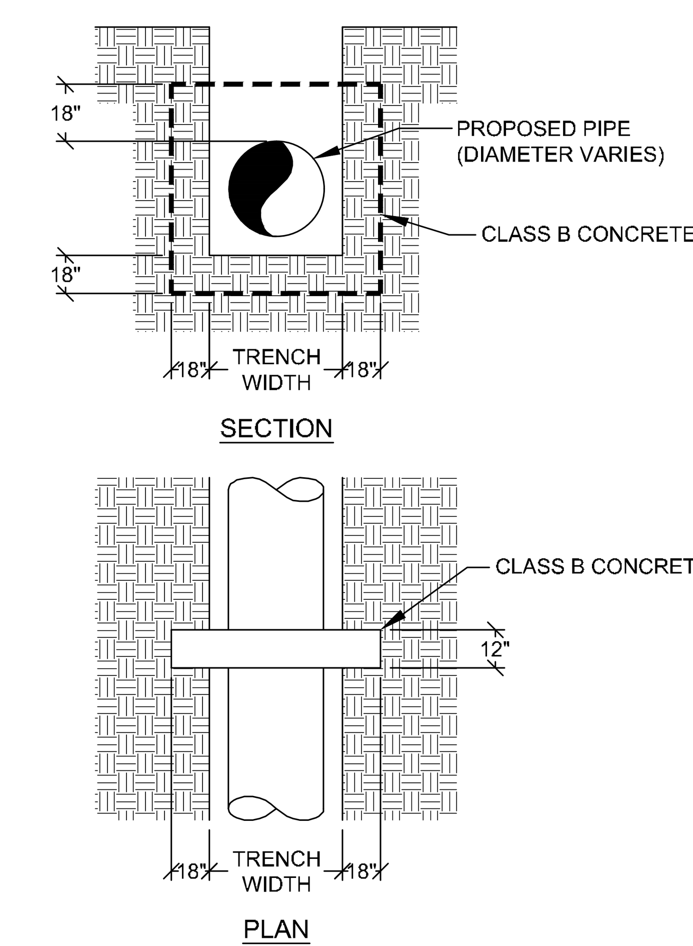

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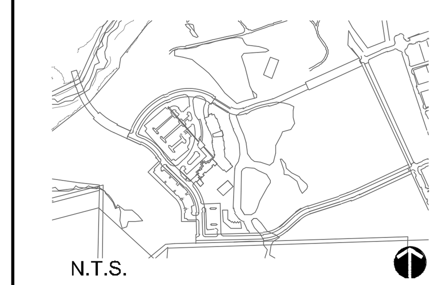
HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

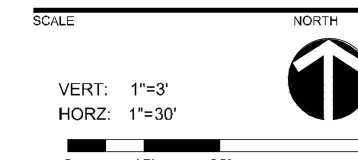
NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE

VERT: 1"=3'
HORZ: 1"=30'

NORTH

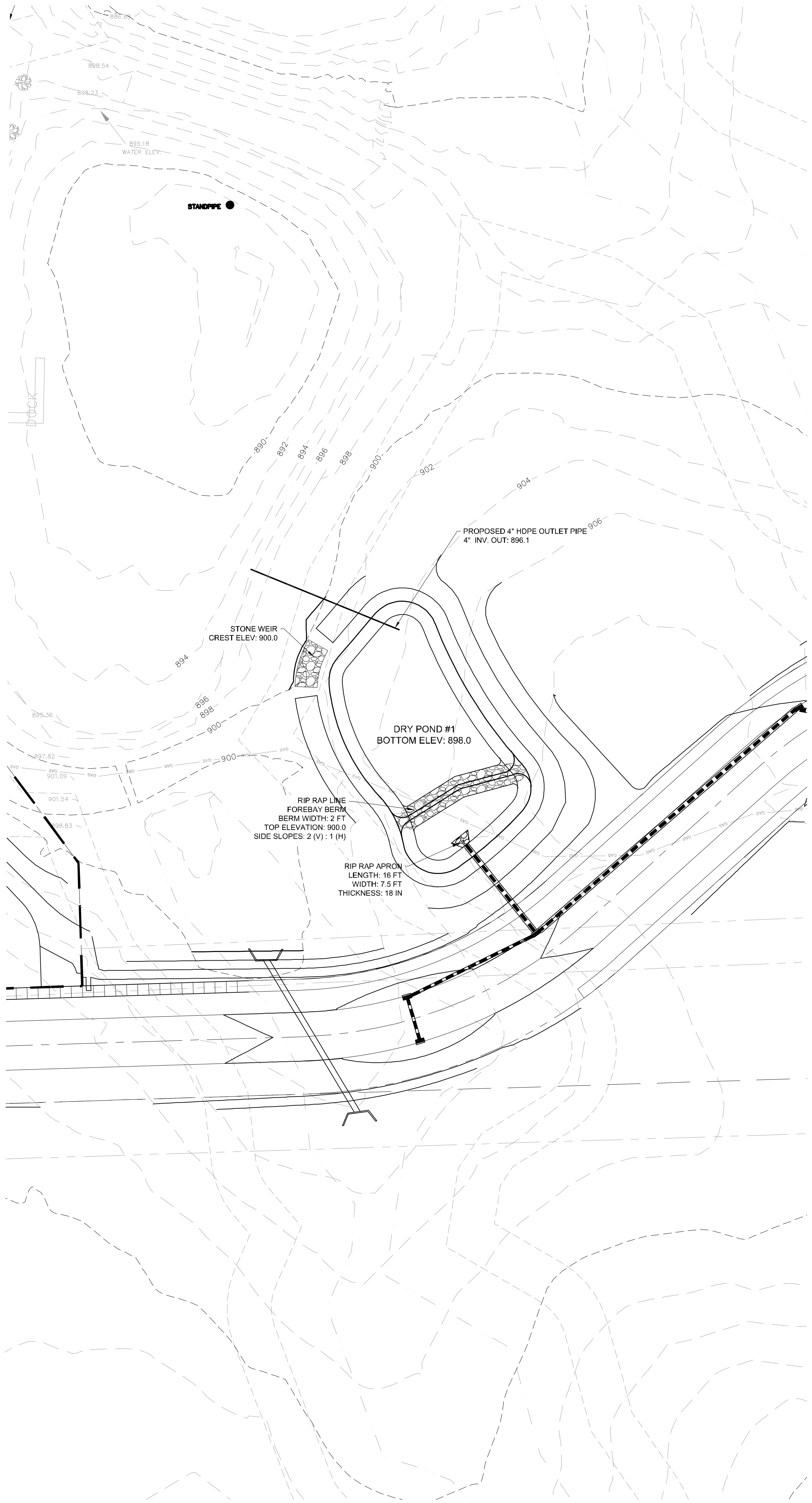


SHEET TITLE

BMP PLAN & SECTION

SHEET NUMBER

C5-10



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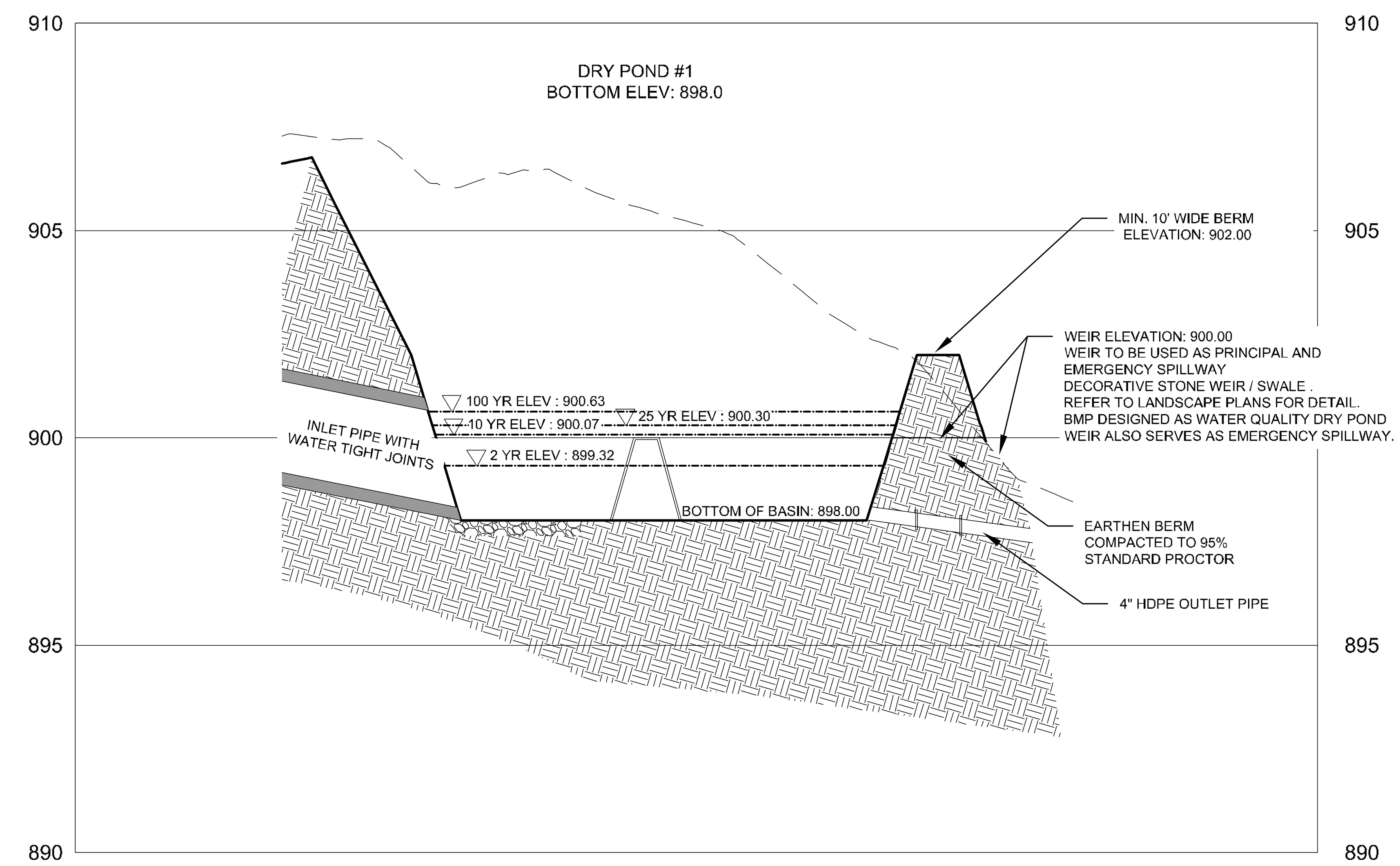

LEGEND:

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR ELEVATION
- DRAINAGE EASEMENT
- STORM SEWER
- DRAINAGE BOUNDARY
- CATCH BASIN (CB)
- DROP INLET (DI)
- STORM MANHOLE

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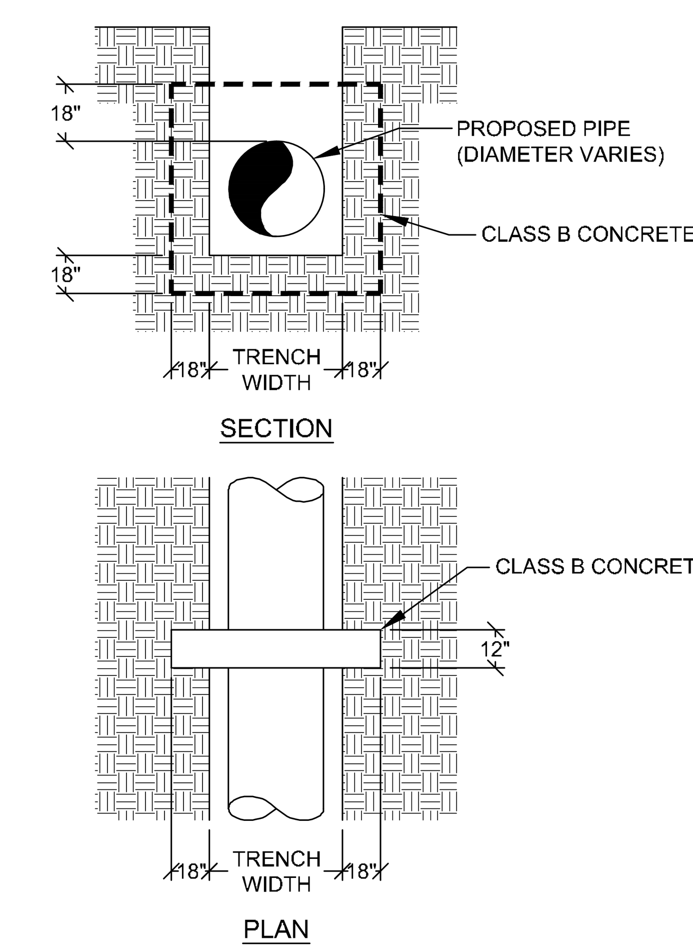

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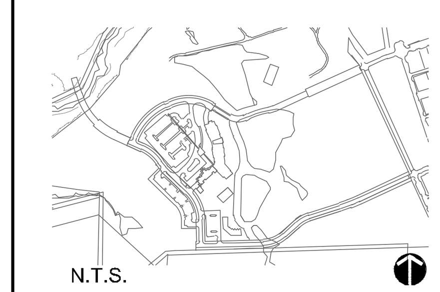
HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

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DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: 1"=3'
HORZ: 1"=30'
0 15' 30' 60'

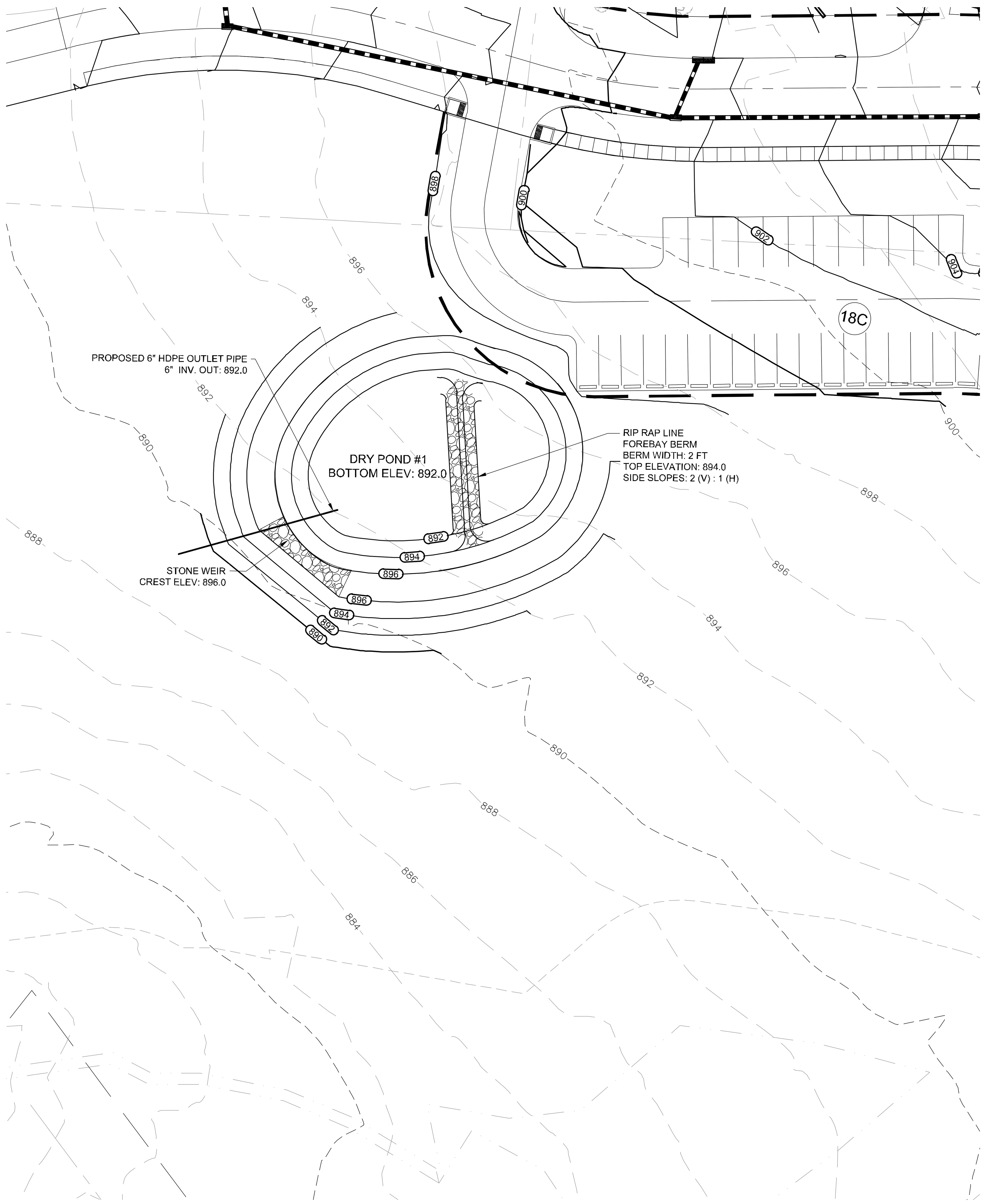
NORTH

SHEET TITLE

BMP PLAN & SECTION

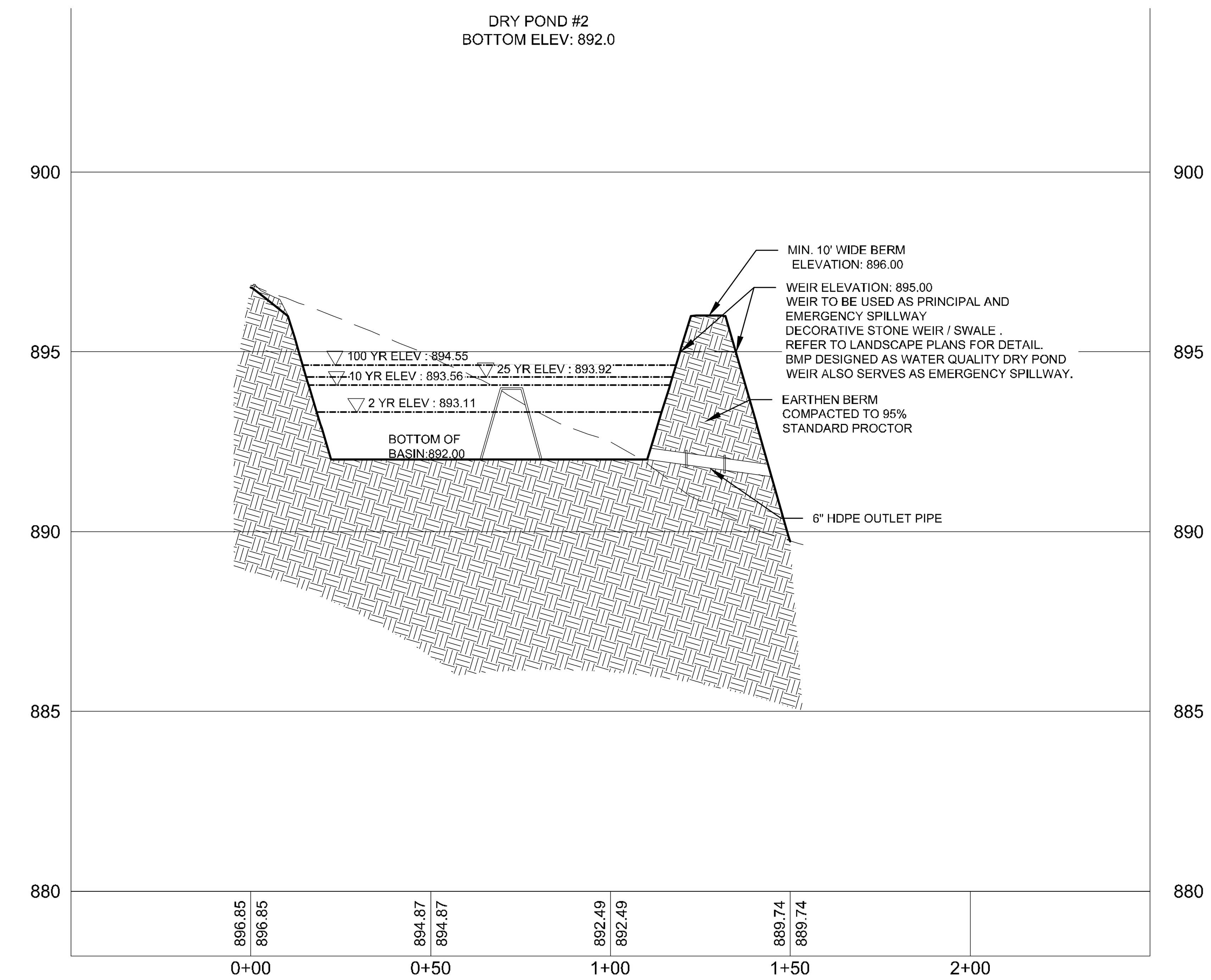
SHEET NUMBER

C5-11



BMP SECTION

SCALE: 1"=30' (H) : 1"=3' (V)



LEGEND:

‒ ‒ ‒ ‒	EXISTING CONTOUR MAJOR
‒ ‒ ‒ ‒	EXISTING CONTOUR MINOR
‒ 730 ‒	PROPOSED CONTOUR ELEVATION
‒ SDE ‒	DRAINAGE EASEMENT
━━━	STORM SEWER
━ ━ ━	DRAINAGE BOUNDARY
▪	CATCH BASIN (CB)
▪	DROP INLET (DI)
●	STORM MANHOLE

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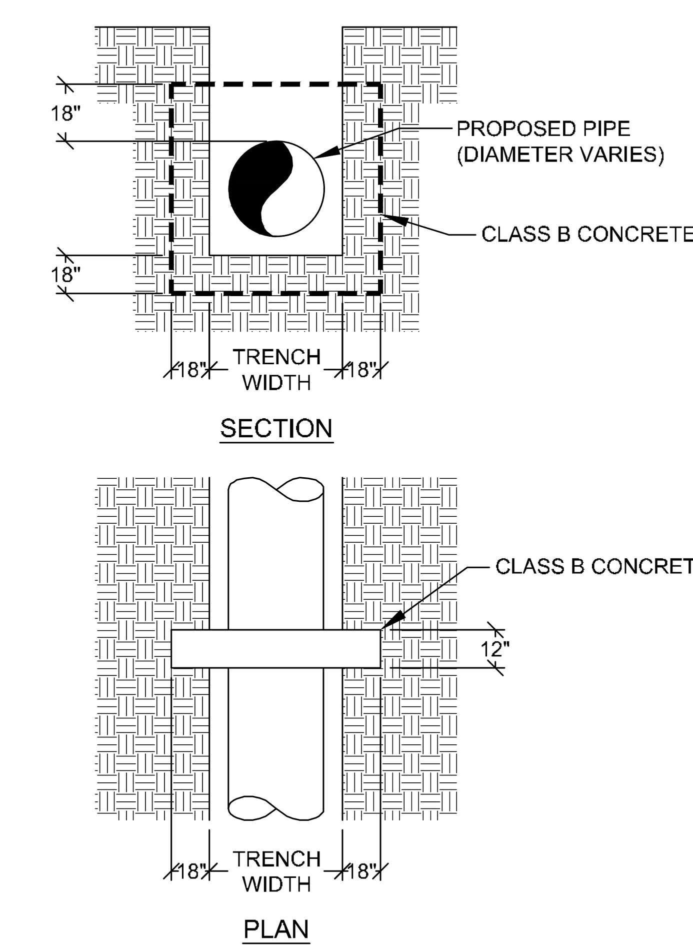

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HARTNESS
GREENVILLE

KEY MAP

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SEAL

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PROJECT

HOTEL HARTNESS

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GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

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0 15' 30' 60'

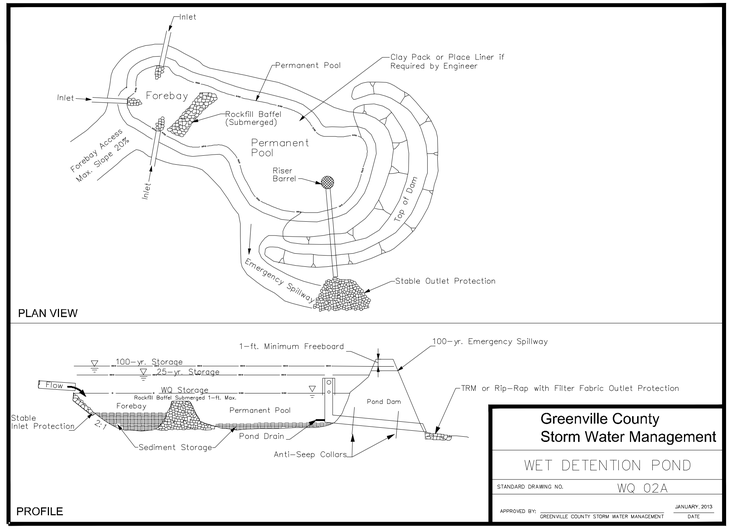
NORTH

SHEET TITLE

BMP PLAN & SECTION

SHEET NUMBER

C5-12

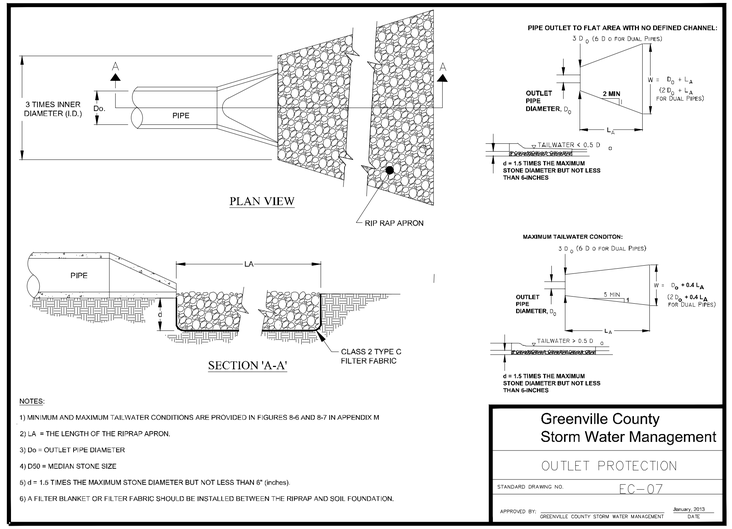


Greenville County
Storm Water Management

WET DETENTION POND

STANDARD DRAWING NO. WQ 02A

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: JANUARY, 2013



NOTES:

1) MINIMUM AND MAXIMUM TAILWATER CONDITIONS ARE PROVIDED IN FIGURES 8-6 AND 8-7 IN APPENDIX M

2) LA = THE LENGTH OF THE RIPRAP APRON.

3) Do = OUTLET PIPE DIAMETER

4) D50 = MEDIAN STONE SIZE

5) d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (inches).

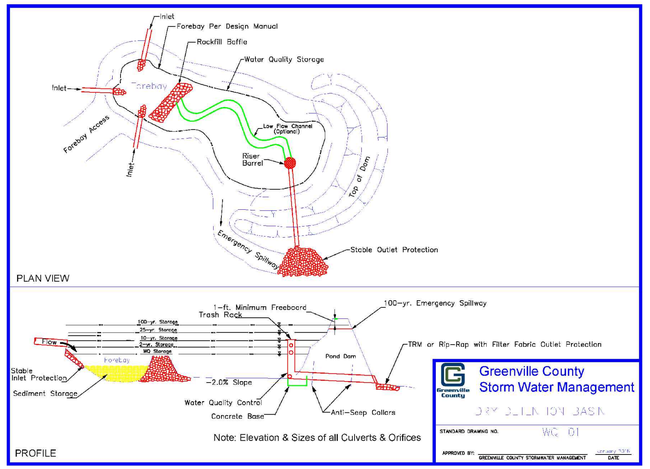
6) A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

Greenville County
Storm Water Management

OUTLET PROTECTION

STANDARD DRAWING NO. EC-07

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: January, 2013



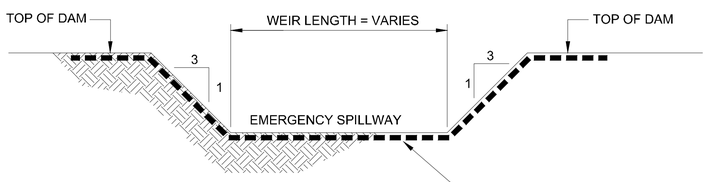
Note: Elevation & Sizes of all Culverts & Orifices

Greenville County
Storm Water Management

DRY DETENTION POND

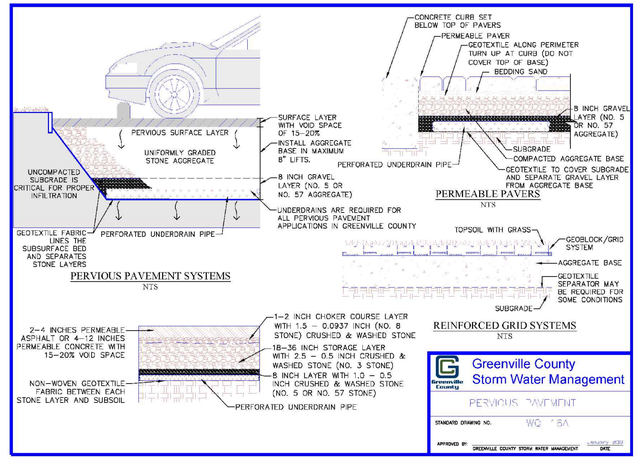
STANDARD DRAWING NO. WQ 01

APPROVED BY: GREENVILLE COUNTY STORMWATER MANAGEMENT — DATE: JANUARY, 2013



OVERFLOW SPILLWAY

NTS



Greenville County
Storm Water Management

PERVIOUS PAVEMENT

STANDARD DRAWING NO. WQ 05A

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: JANUARY, 2013

BMP SPILLWAY TABLE

BMP	LENGTH (FT)	ELEVATION (FT)
WET POND	180	872
DRY POND #1	10	900
DRY POND #2	10	894

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6. PERFORM ANNUAL INSPECTION OF THE BASIN (ANNUAL INSPECTION REPORTS TO BE KEPT BY THE OWNER).

DAM AND EMBANKMENT CONSTRUCTION

1. GENERAL - THE BASIN AND DAM AREA SHALL BE CLEARED, GRUBBED AND STRIPPED OF ALL VEGETATIVE MATERIAL AND TOP SOIL PRIOR TO DAM CONSTRUCTION. THE DISPOSAL OF TREES, STUMPS, CONSTRUCTION DEBRIS, VEGETATIVE MATERIAL, ETC. SHALL NOT BE PERMITTED IN THE DAM OR BASIN AREA. WHEN BLASTING IS USED TO REMOVE ROCK FROM THE BASIN AREA, THE BLASTED AREA SHALL BE OVER-EXCAVATED TO A DEPTH OF AT LEAST TWO FEET (2') BELOW FINISHED GRADE AND BROUGHT BACK TO FINISHED GRADE WITH CLEAN RELATIVELY IMPERVIOUS SOIL MATERIAL COMPACTED IN PLACE.

2. EARTH FILL DAMS

   2.1. SOIL MATERIALS USED FOR EARTH FILL WHICH ARE HIGHLY PERMEABLE OR WHICH EXHIBIT SIGNIFICANT SHRINKAGE OR SWELL, OR DISPERSION SHALL NOT BE USED IN THE EMBANKMENT.

   2.2. A CUTOFF TRENCH (CORE TRENCH) SHALL BE PROVIDED WITH A MINIMUM WIDTH OF FIVE FEET (5'). THE CENTERLINE OF THE CUTOFF TRENCH SHALL NOT BE LOCATED DOWNSTREAM OF THE INSIDE TOP OF SLOPE OF THE DAM. THE CUTOFF TRENCH SHALL BE CAREFULLY BACK-FILLED WITH HIGHLY IMPERMEABLE MATERIAL AND COMPACTED TO AT LEAST NINETY-FIVE PERCENT (95%) OF STANDARD PROCTOR

   2.3. THE MINIMUM TOP WIDTH OF THE DAM SHALL BE FIVE FEET (5') AND PERMANENT SLOPES SHALL NOT BE STEEPER THAN 3:1 (THREE HORIZONTAL TO ONE VERTICAL) ON THE DAM OR EMBANKMENTS AROUND THE BASIN.

   2.4. ALL DISTURBED GROUND AREAS AND EMBANKMENTS SURROUNDING THE BASIN SHALL BE MECHANICALLY STABILIZED OR HAVE PERMANENT SEEDING SCHEDULE.

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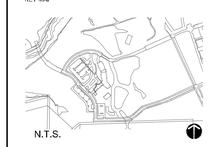
HARTNESS GREENVILLE

KEY MAP



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CHECKED BY: LDI

SCALE — NORTH

VERT: N/A
HORZ: NTS

(NOT TO SCALE)

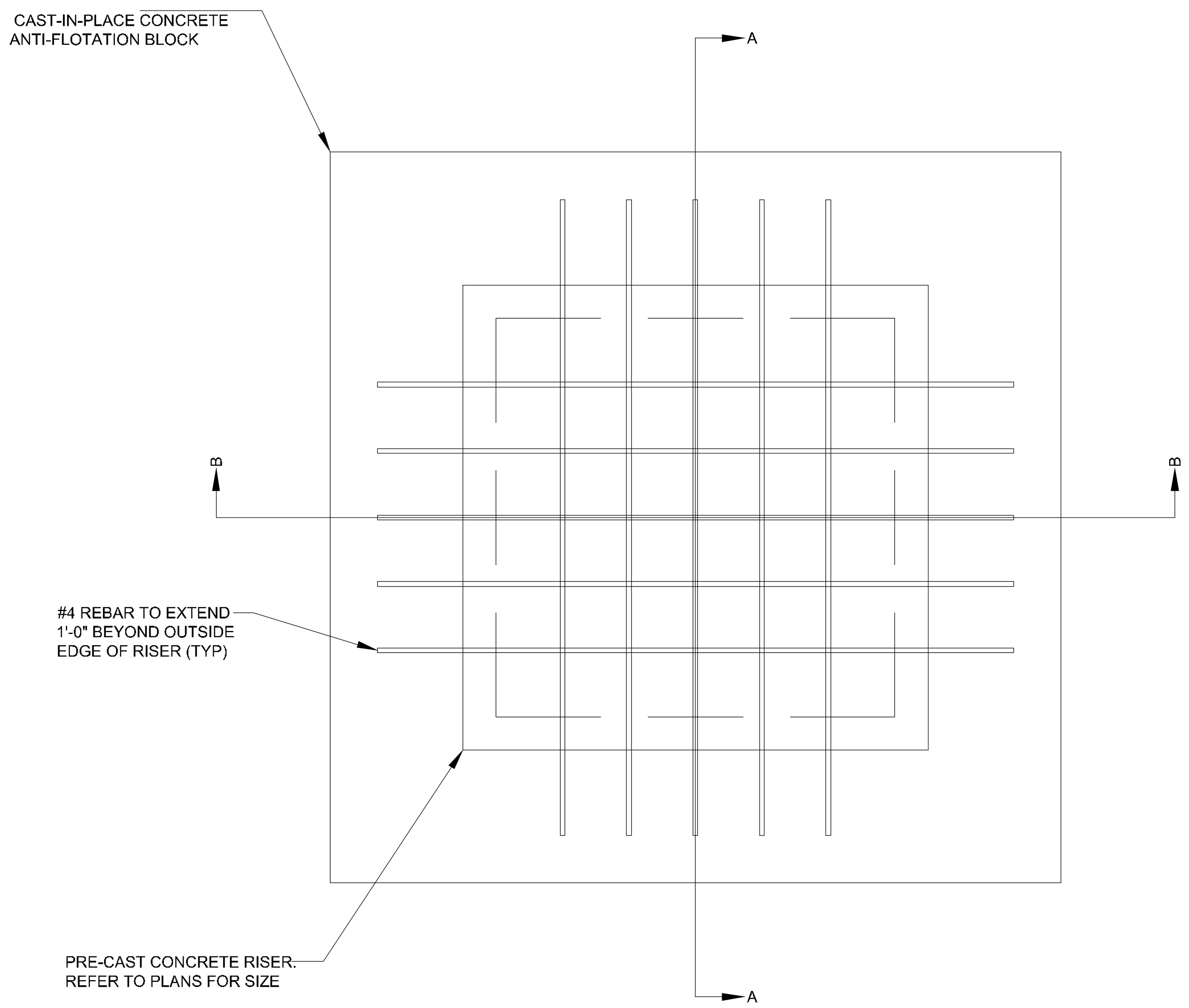
SHEET TITLE

BMP DETAILS

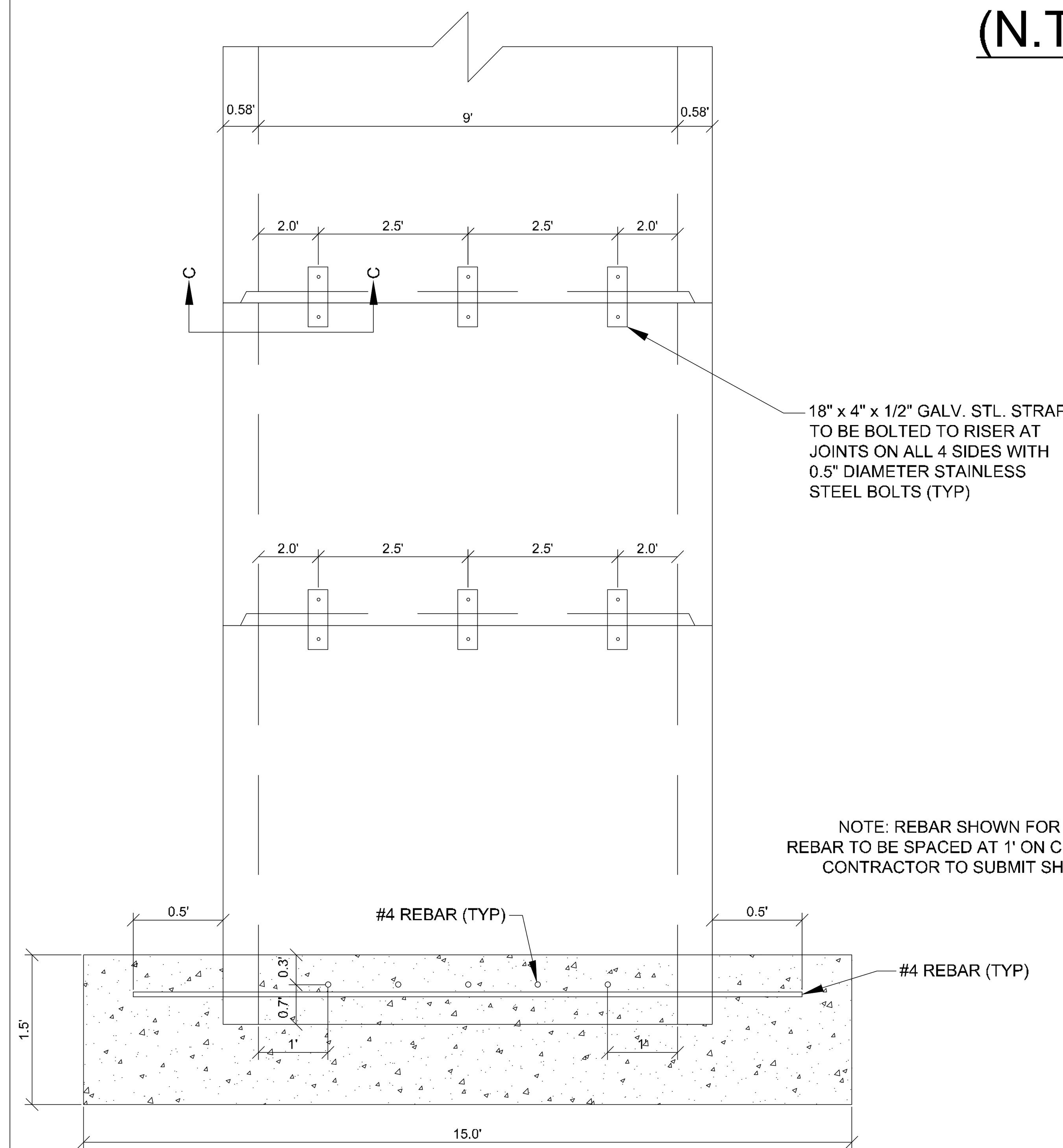
SHEET NUMBER

C5-13

RISER-100
(N.T.S)

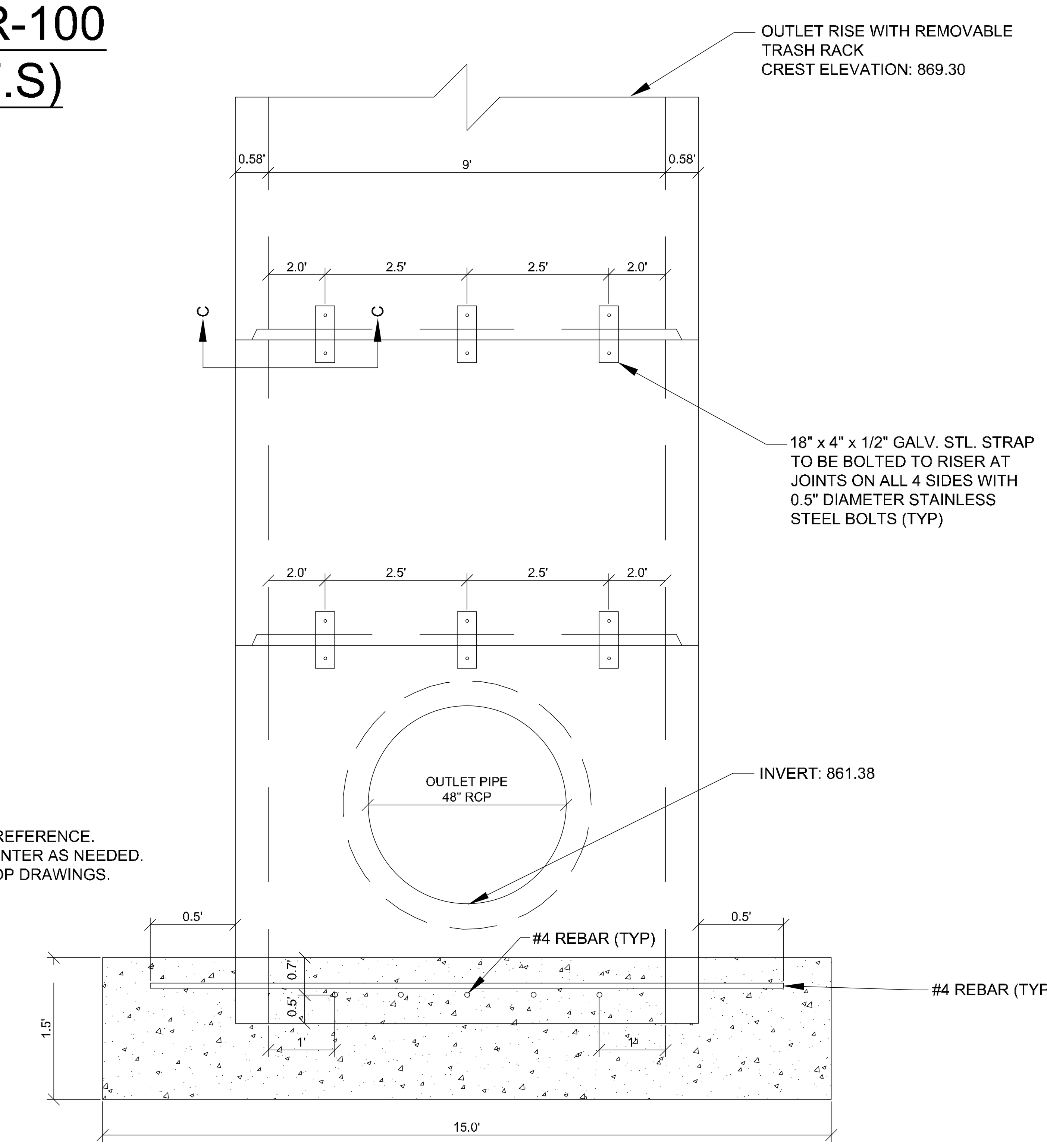


PLAN VIEW

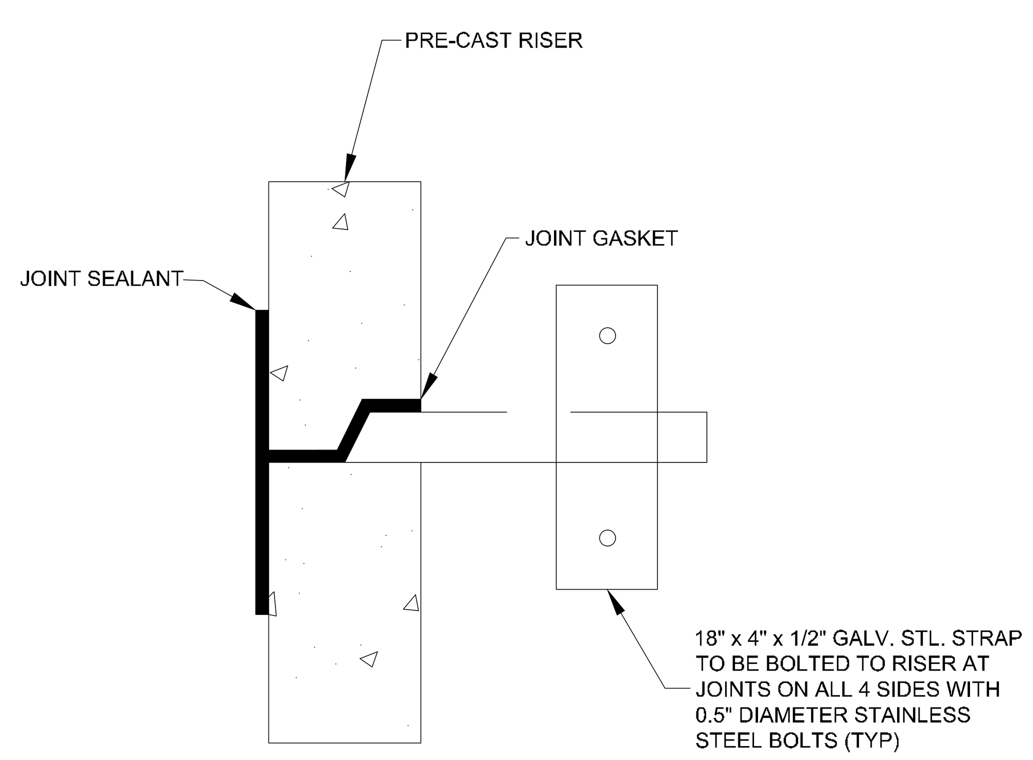


SECTION A-A

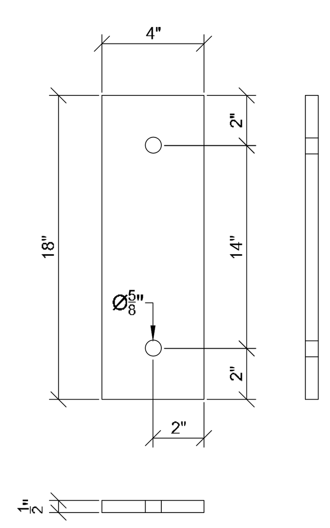
NOTE: REBAR SHOWN FOR REFERENCE.
REBAR TO BE SPACED AT 1' ON CENTER AS NEEDED.
CONTRACTOR TO SUBMIT SHOP DRAWINGS.



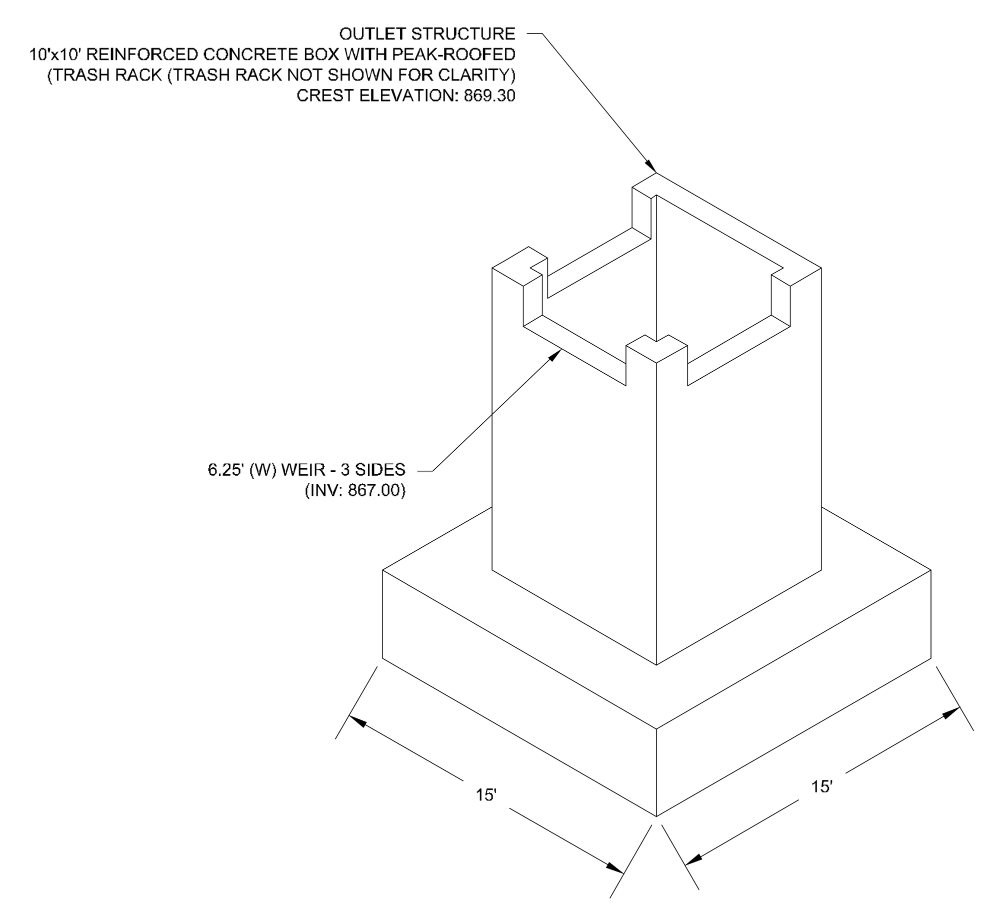
SECTION B-B



SECTION C-C



GALVANIZED STEEL STRAP



OUTLET STRUCTURE SCHEMATIC
N.T.S.

NOTE:

PRIOR TO MANUFACTURE OF OUTLET STRUCTURES FOR POND 1 AND POND 2, CONTRACTOR IS TO COORDINATE MATERIALS TO BE USED FOR VENEER OF OUTLET STRUCTURES WITH OWNER OR OWNER'S REPRESENTATIVE. ALL MATERIALS AND AESTHETIC APPEARANCE OF OUTLET STRUCTURE DEVICES SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO MANUFACTURE AND INSTALLATION.

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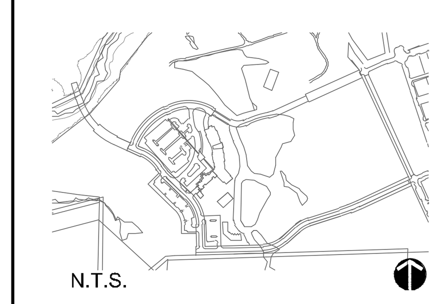

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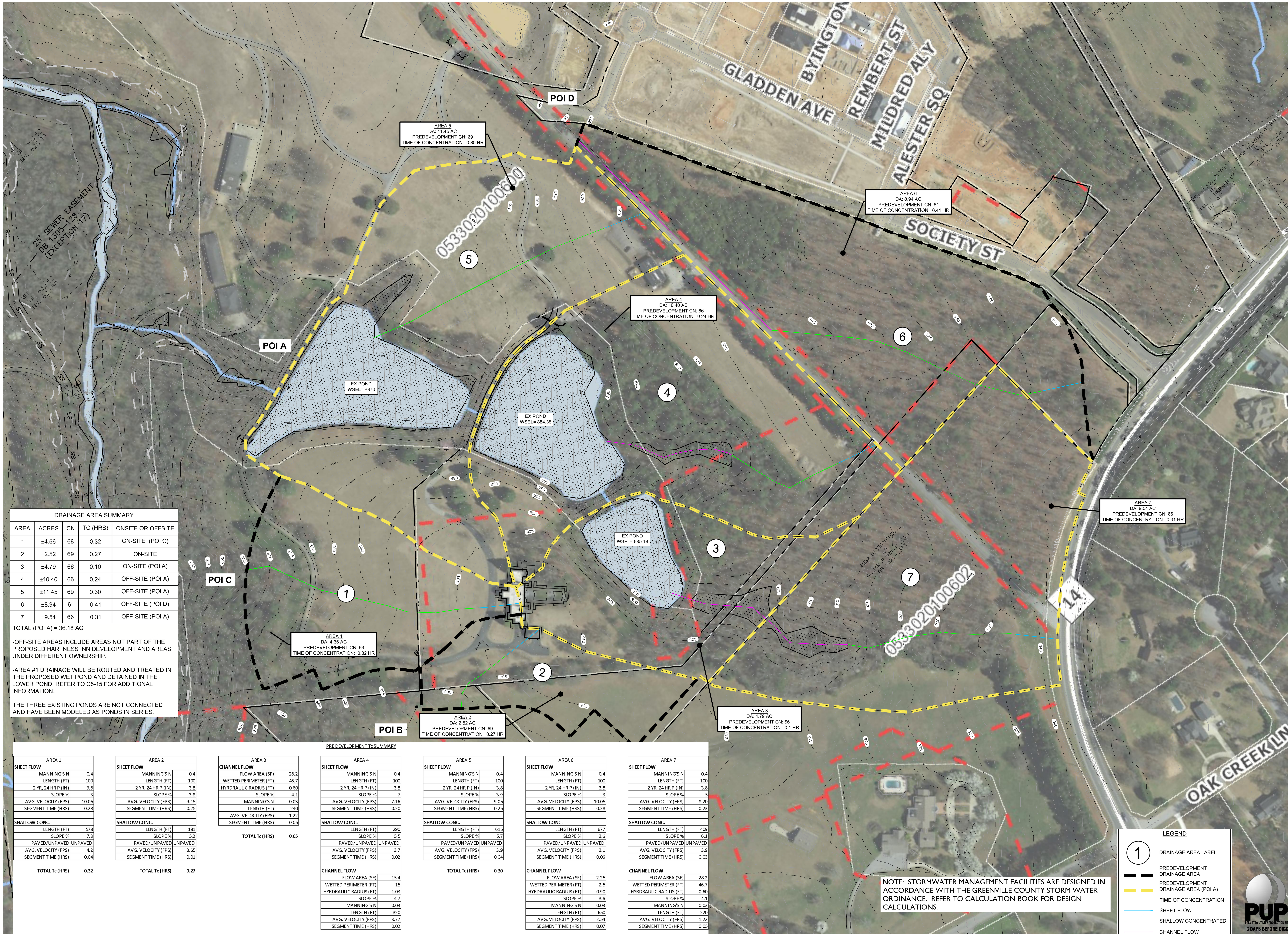
SHEET NUMBER
C5-14



DRAINAGE AREA SUMMARY				
AREA	ACRES	CN	TC (HRS)	ONSITE OR OFFSITE
1	±4.66	68	0.32	ON-SITE (POI C)
2	±2.52	69	0.27	ON-SITE
3	±4.79	66	0.10	ON-SITE (POI A)
4	±10.40	66	0.24	OFF-SITE (POI A)
5	±11.45	69	0.30	OFF-SITE (POI A)
6	±8.94	61	0.41	OFF-SITE (POI D)
7	±9.54	66	0.31	OFF-SITE (POI A)

TOTAL (POI A) = 36.18 AC

-OFF-SITE AREAS INCLUDE AREAS NOT PART OF THE PROPOSED HARTNESS INN DEVELOPMENT AND AREAS UNDER DIFFERENT OWNERSHIP.

-AREA #1 DRAINAGE WILL BE ROUTED AND TREATED IN THE PROPOSED WET POND AND DETAINED IN THE LOWER POND. REFER TO C5-15 FOR ADDITIONAL INFORMATION.

THE THREE EXISTING PONDS ARE NOT CONNECTED AND HAVE BEEN MODELED AS PONDS IN SERIES.

PRE DEVELOPMENT Tc SUMMARY

AREA 1	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
2 YR, 24 HR P (IN)	3.8
SLOPE %	3
AVG. VELOCITY (FPS)	10.05
SEGMENT TIME (HRS)	0.28
SHALLOW CONC.	
LENGTH (FT)	578
SLOPE %	7.3
PAVED/UNPAVED	UNPAVED
AVG. VELOCITY (FPS)	4.2
SEGMENT TIME (HRS)	0.04
TOTAL Tc (HRS)	**0.32**

AREA 2	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
2 YR, 24 HR P (IN)	3.8
SLOPE %	3.8
AVG. VELOCITY (FPS)	9.15
SEGMENT TIME (HRS)	0.25
SHALLOW CONC.	
LENGTH (FT)	181
SLOPE %	5.2
PAVED/UNPAVED	UNPAVED
AVG. VELOCITY (FPS)	3.65
SEGMENT TIME (HRS)	0.01
TOTAL Tc (HRS)	**0.27**

AREA 3	
CHANNEL FLOW	
FLOW AREA (SF)	28.2
WETTED PERIMETER (FT)	46.7
HYRDRAULIC RADIUS (FT)	0.60
SLOPE %	4.1
MANNING'S N	0.03
LENGTH (FT)	240
AVG. VELOCITY (FPS)	1.22
SEGMENT TIME (HRS)	0.05
TOTAL Tc (HRS)	**0.05**

AREA 4	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
2 YR, 24 HR P (IN)	3.8
SLOPE %	7
AVG. VELOCITY (FPS)	7.16
SEGMENT TIME (HRS)	0.20
SHALLOW CONC.	
LENGTH (FT)	290
SLOPE %	5.5
PAVED/UNPAVED	UNPAVED
AVG. VELOCITY (FPS)	3.7
SEGMENT TIME (HRS)	0.02
CHANNEL FLOW	
FLOW AREA (SF)	15.4
WETTED PERIMETER (FT)	15
HYRDRAULIC RADIUS (FT)	1.03
SLOPE %	4.7
MANNING'S N	0.03
LENGTH (FT)	320
AVG. VELOCITY (FPS)	3.77
SEGMENT TIME (HRS)	0.02
TOTAL Tc (HRS)	**0.24**

AREA 5	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
2 YR, 24 HR P (IN)	3.8
SLOPE %	3.9
AVG. VELOCITY (FPS)	9.05
SEGMENT TIME (HRS)	0.25
SHALLOW CONC.	
LENGTH (FT)	615
SLOPE %	5.7
PAVED/UNPAVED	UNPAVED
AVG. VELOCITY (FPS)	3.9
SEGMENT TIME (HRS)	0.04
TOTAL Tc (HRS)	**0.30**

AREA 6	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
2 YR, 24 HR P (IN)	3.8
SLOPE %	3
AVG. VELOCITY (FPS)	10.05
SEGMENT TIME (HRS)	0.28
SHALLOW CONC.	
LENGTH (FT)	677
SLOPE %	3.6
PAVED/UNPAVED	UNPAVED
AVG. VELOCITY (FPS)	3.1
SEGMENT TIME (HRS)	0.06
CHANNEL FLOW	
FLOW AREA (SF)	2.25
WETTED PERIMETER (FT)	2.5
HYRDRAULIC RADIUS (FT)	0.90
SLOPE %	3.6
MANNING'S N	0.03
LENGTH (FT)	650
AVG. VELOCITY (FPS)	2.54
SEGMENT TIME (HRS)	0.07
TOTAL Tc (HRS)	**0.41**

AREA 7	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
2 YR, 24 HR P (IN)	3.8
SLOPE %	5
AVG. VELOCITY (FPS)	8.20
SEGMENT TIME (HRS)	0.23
SHALLOW CONC.	
LENGTH (FT)	409
SLOPE %	6.1
PAVED/UNPAVED	UNPAVED
AVG. VELOCITY (FPS)	3.9
SEGMENT TIME (HRS)	0.03
CHANNEL FLOW	
FLOW AREA (SF)	28.2
WETTED PERIMETER (FT)	46.7
HYRDRAULIC RADIUS (FT)	0.60
SLOPE %	4.1
MANNING'S N	0.03
LENGTH (FT)	220
AVG. VELOCITY (FPS)	1.22
SEGMENT TIME (HRS)	0.05
TOTAL Tc (HRS)	**0.31**

NOTE: STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.

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HARTNESS
GREENVILLE

KEY MAP
N.T.S.

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

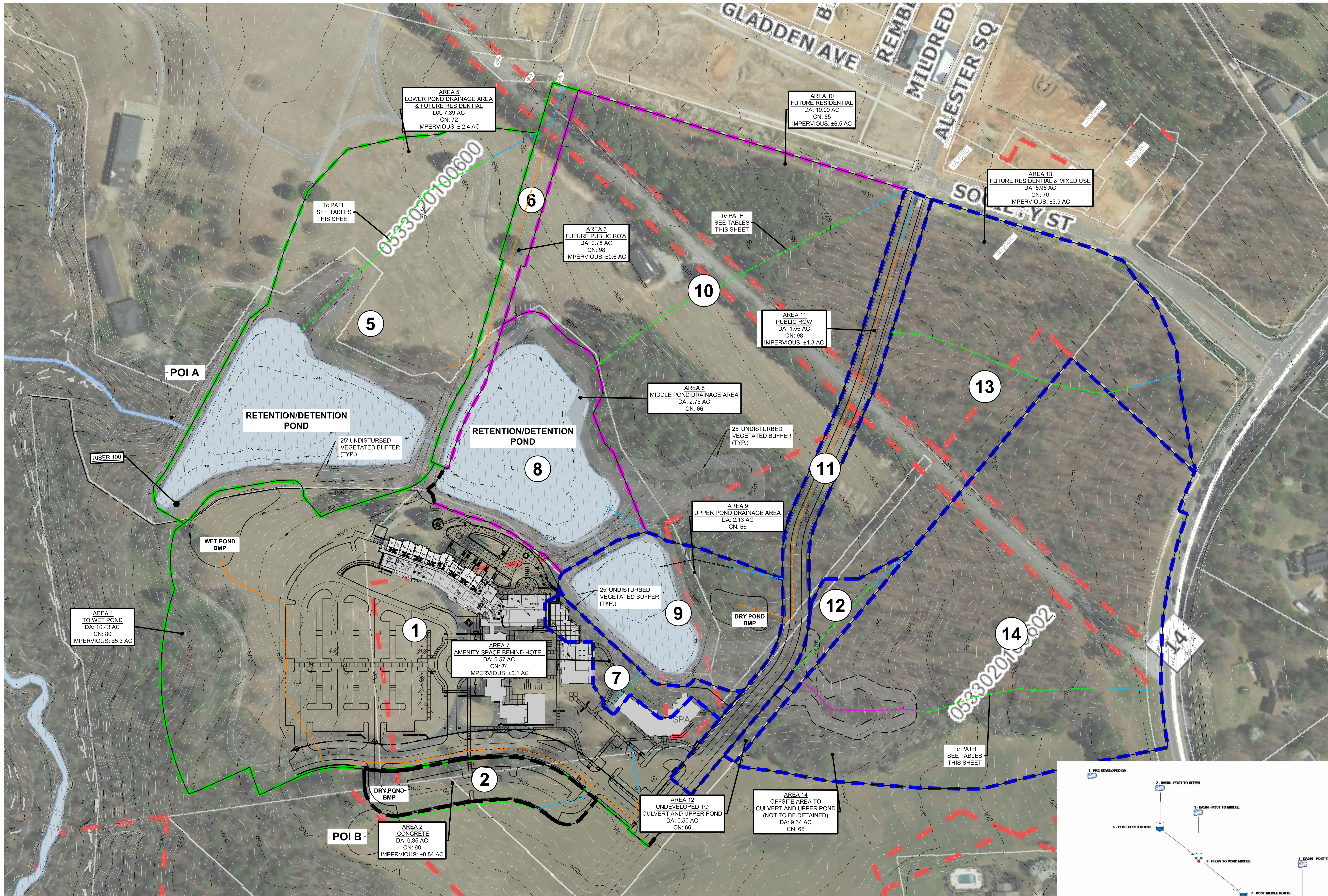
DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

NORTH

SHEET TITLE
PRE DEVELOPMENT DRAINAGE MAP

SHEET NUMBER
C5-15



TIME OF CONCENTRATION SUMMARY

AREA 1	
SHEET FLOW	
MANNING'S N	0.011
LENGTH (FT)	100
SLOPE %	1
PIPED FLOW	
SLOPE %	1
MANNING'S N	0.013
LENGTH (FT)	1316
TOTAL Tc (MIN)	6.00

AREA 2	
SHEET FLOW	
MANNING'S N	0.011
LENGTH (FT)	100
SLOPE %	3.5
SHALLOW CONC.	
LENGTH (FT)	280
SLOPE %	2.6
PAVED/UNPAVED	UNPAVED
TOTAL Tc (MIN)	6.00

AREA 5	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
SLOPE %	6.8
SHALLOW CONC.	
LENGTH (FT)	515
SLOPE %	2.4
PAVED/UNPAVED	UNPAVED
TOTAL Tc (MIN)	6.00

AREA 6	
SHEET FLOW	
MANNING'S N	0.011
LENGTH (FT)	100
SLOPE %	3
PIPED FLOW	
SLOPE %	2
MANNING'S N	0.013
LENGTH (FT)	535
TOTAL Tc (MIN)	6.00

AREA 7	
SHEET FLOW	
MANNING'S N	0.011
LENGTH (FT)	92
SLOPE %	1
TOTAL Tc (MIN)	6.00

AREA 8	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	90
SLOPE %	25
TOTAL Tc (MIN)	6.00

AREA 9	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
SLOPE %	5.3
SHALLOW CONC.	
LENGTH (FT)	144
SLOPE %	20
PAVED/UNPAVED	UNPAVED
TOTAL Tc (MIN)	6.00

AREA 10	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
SLOPE %	6.5
SHALLOW CONC.	
LENGTH (FT)	606
SLOPE %	11.2
PAVED/UNPAVED	UNPAVED
TOTAL Tc (MIN)	6.00

AREA 11	
SHEET FLOW	
MANNING'S N	0.15
LENGTH (FT)	100
SLOPE %	4
PIPED FLOW	
SLOPE %	3
MANNING'S N	0.013
LENGTH (FT)	878
TOTAL Tc (MIN)	6.00

AREA 12	
SHEET FLOW	
MANNING'S N	0.011
LENGTH (FT)	100
SLOPE %	2
SHALLOW CONC.	
LENGTH (FT)	224
SLOPE %	4
PAVED/UNPAVED	UNPAVED
TOTAL Tc (MIN)	6.00

AREA 13	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
SLOPE %	4.14
SHALLOW CONC.	
LENGTH (FT)	485
SLOPE %	4.41
PAVED/UNPAVED	UNPAVED
TOTAL Tc (MIN)	6.00

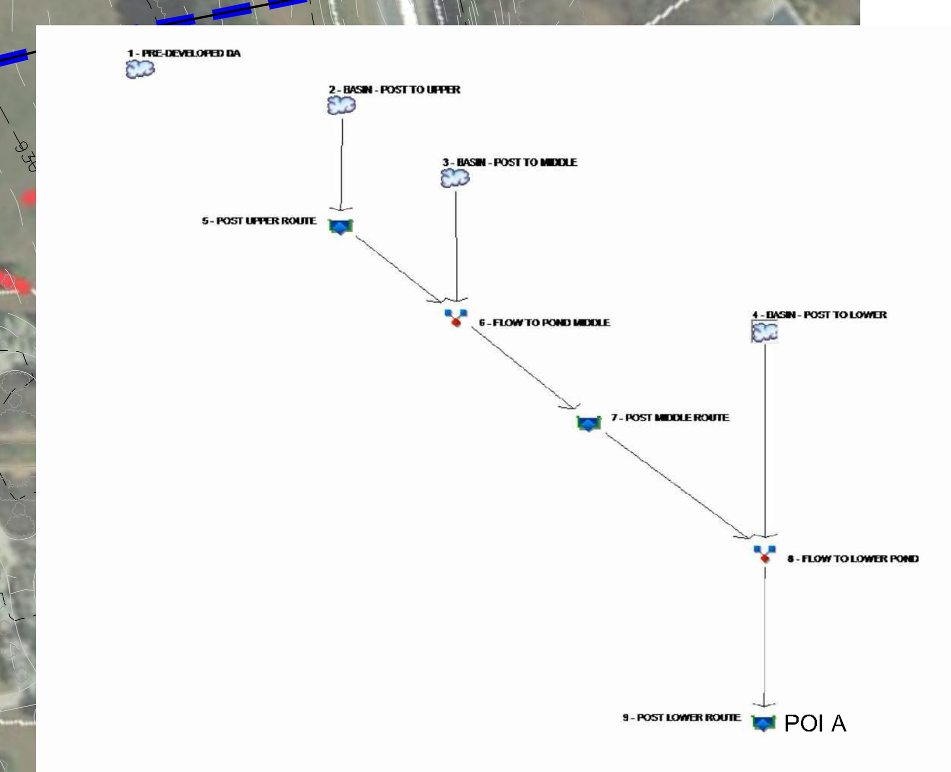
AREA 14	
SHEET FLOW	
MANNING'S N	0.4
LENGTH (FT)	100
SLOPE %	5
SHALLOW CONC.	
LENGTH (FT)	385
SLOPE %	6.1
PAVED/UNPAVED	UNPAVED
PIPED FLOW	
SLOPE %	4.1
MANNING'S N	0.03
LENGTH (FT)	246
TOTAL Tc (MIN)	19.00

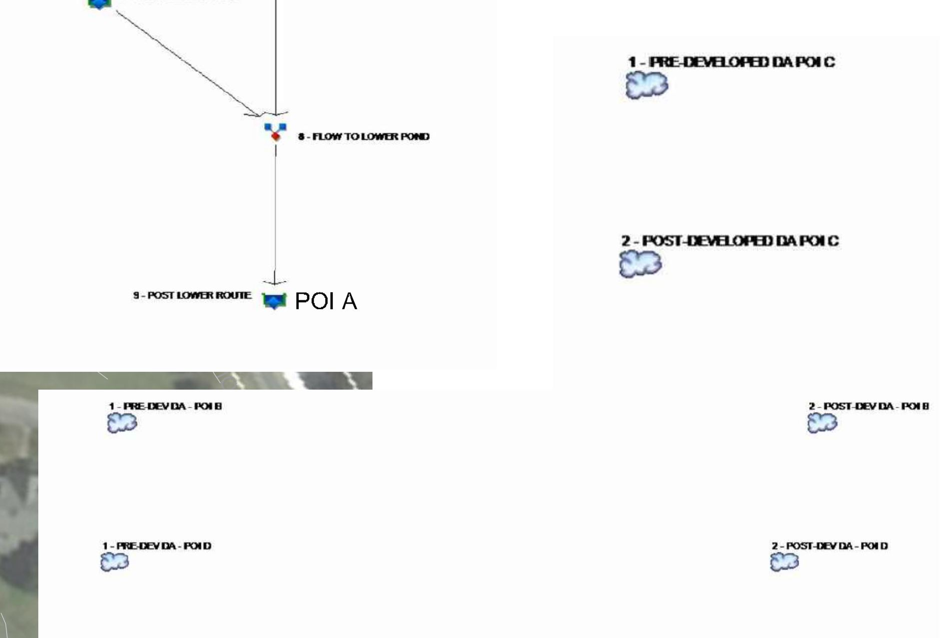
WEIGHTED CN CALCULATIONS

			PERVIOUS		IMPERVIOUS		
AREA	DESCRIPTION	TOTAL ACREAGE	ACREAGE	CN	ACREAGE	CN	WEIGHTED CN
1	HOTEL	9.25	4.4	61	4.85	98	80
	FUTURE RESIDENTIAL	1.18	0.73	61	0.45	98	
2	TEMPORARY PARKING	0.85	0.32	62	0.53	98	77
	GRASS	0.38	0.38	61	0	98	
7	AMENITY SPACE	0.57	0.37	61	0.2	98	74

OVERALL STORMWATER MANAGEMENT TRACKING CHART

	DRAINAGE AREA (AC.)		WATER QUALITY VOLUME (CU. FT.)		DETENTION 2 YR (CFS)		DETENTION 10 YR (CFS)		DETENTION 25 YR (CFS)		IDEAL MODEL TSS REMOVAL %	
POINT OF INTEREST	PRE	POST	REQUIRED	TREATED	PRE	POST	PRE	POST	PRE	POST	REQUIRED	PROVIDED
POI A	36.18	51.58	32,307	32,307	20.19	15.70	47.02	40.51	70.29	70.07	85	86.63
POI B	2.52	0.85	2,257	2,257	1.28	0.71	3.15	1.67	4.77	2.51	85	
POI C	4.66	0	--	--	--	--	--	--	--	--		
POI D	8.94	0	--	--	--	--	--	--	--	--		





IMPERVIOUS AREA SUMMARY

	ACREAGE	TREATMENT
AREA 1	± 5.3	WET POND BMP
AREA 2	± 0.85	DRY POND
AREA 5	± 2.4	FUTURE BMP
AREA 6	± 0.6	FUTURE BMP
AREA 7	± 0.1	UNTREATED
AREA 10	± 6.5	FUTURE BMP
AREA 11	± 1.3	DRY POND BMP
AREA 13	± 3.9	FUTURE BMP
TOTAL	± 20.1	

DRAINAGE AREA SUMMARY

AREA	ACRES	CN	TC (min)	DESCRIPTION
1	10.43	80	6	LOWER POND
2	0.86	62	6	
5	7.37	72	6	LOWER POND (OFF-SITE)
6	0.78	98	6	LOWER POND (OFF-SITE)
7	0.57	74	6	UPPER POND
8	2.75	66	6	MIDDLE POND
9	2.13	66	6	UPPER POND
10	10.00	85	6	MIDDLE POND (OFF-SITE)
11	1.56	98	6	UPPER POND
12	0.50	66	6	UPPER POND (OFF-SITE)
13	5.95	70	6	UPPER POND (OFF-SITE)
14	9.54	66	19	UPPER POND (OFFSITE)
TOTAL (UPPER POND)				20.25
TOTAL (MIDDLE POND)				12.75
TOTAL (LOWER POND)				18.58

OFF-SITE AREAS INCLUDE AREAS NOT PART OF THE PROPOSED HARTNESS INN DEVELOPMENT AND AREAS UNDER DIFFERENT OWNERSHIP.

NOTES:

1. MINIMUM TC OF 6 MINS USED FOR PROPOSED CONDITIONS.
2. AREA 14 UNDER UNDEVELOPED CONDITION TO HAVE ON-SITE DETENTION BY OTHERS.
3. STORMWATER MANAGEMENT FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE GREENVILLE COUNTY STORM WATER ORDINANCE. REFER TO CALCULATION BOOK FOR DESIGN CALCULATIONS.
4. THE EXISTING PONDS ARE NOT CONSIDERED IN WATER QUALITY CALCULATIONS.

LEGEND

- (1) DRAINAGE AREA LABEL
- POST-DEVELOPMENT DRAINAGE AREA
- POST-DEVELOPMENT DRAINAGE AREA (UPPER POND)
- POST-DEVELOPMENT DRAINAGE AREA (MIDDLE POND)
- POST-DEVELOPMENT DRAINAGE AREA (LOWER POND)
- TIME OF CONCENTRATION
- SHEET FLOW
- SHALLOW CONCENTRATED
- PIPED FLOW
- CHANNEL FLOW

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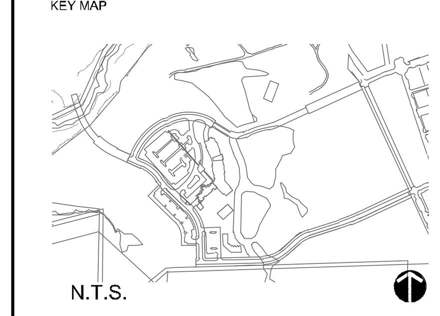
HARTNESS
GREENVILLE

KEY MAP



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PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

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DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'
NORTH

SHEET TITLE
POST DEVELOPMENT STORMWATER MANAGEMENT PLAN

SHEET NUMBER
C5-16

NOTES:

1. MATERIALS AND INSTALLATION SHALL ADHERE TO ALL METRONNECTS STANDARDS AND SPECIFICATIONS
2. UPON COMPLETION OF THE CONNECTION BUT PRIOR TO RECOVERING ANY TRENCHES AND/OR ACCESS DIGS FOR MANHOLES, REWA'S ENGINEERING DEPARMENT MUST BE CONTACTED AT 864-299-4020 TO PERFORM A FINAL INSPECTION.

LEGEND	
⌖	PROPOSED FIRE HYDRANT
●	PROPOSED SANITARY SEWER MANHOLE
Ⓢ	EXISTING SANITARY SEWER MANHOLE
—— W ——	PROPOSED WATER LINE
—— SS ——	PROPOSED SANITARY SEWER LINE
—— W ——	EXISTING WATER LINE
—— SS ——	EXISTING SANITARY SEWER LINE

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HARTNESS
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NORTH
VERT: N/A
HORZ: 1"=100'
0 50' 100' 200'

SHEET TITLE
OVERALL UTILITY PLAN

SHEET NUMBER
C6-0

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ORIGINAL SHEET SIZE: 24" X 36"

NOTES:

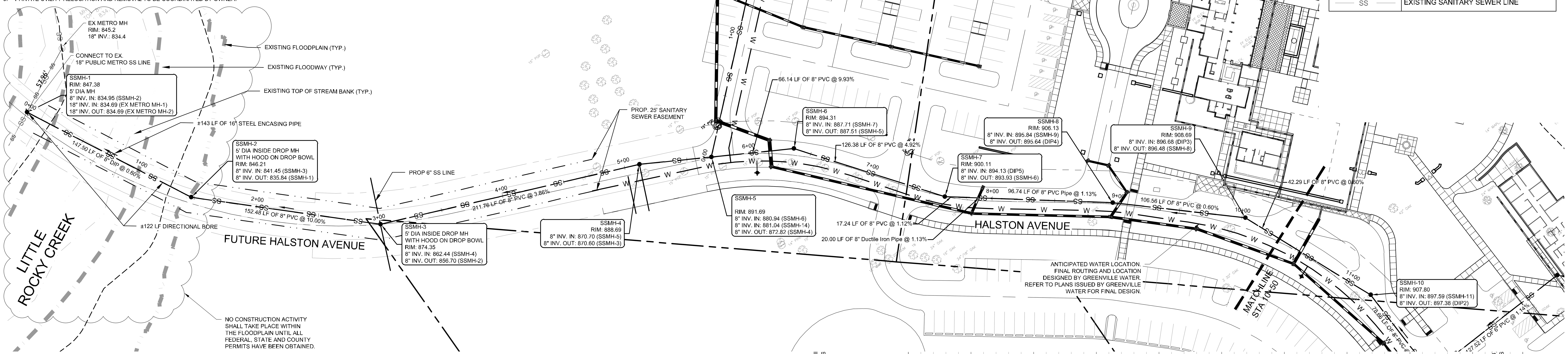
1. PRIVATE UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR FINAL DESIGN.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, INCLUDING WATER, FIBER OPTIC, ELECTRIC, AND TRANSFORMER LOCATIONS (BY OTHERS).
3. PRELIMINARY WATER LAYOUT SHOWN FOR INFORMATION PURPOSES ONLY. FINAL DESIGN TO BE COMPLETED BY GREENVILLE WATER. CONTRACTOR TO OBTAIN PLANS AND COORDINATE CONSTRUCTION ACCORDING TO GREENVILLE WATER PLANS AND SPECIFICATIONS.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS (HORIZONTAL AND VERTICAL) AND SIZES OF ALL BUILDING UTILITY SERVICES (WATER, SEWER, FIRE, ETC.) WITH ARCHITECTURAL/MEP PLANS PRIOR TO CONSTRUCTION.
5. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE WITH GREENVILLE COUNTY, SCDOT, AND ALL OTHER LOCAL, STATE AND FEDERAL STANDARDS AND SPECIFICATIONS.
6. SANITARY SEWER MATERIALS AND INSTALLATION SHALL ADHERE TO ALL METROCONNECTS STANDARDS AND SPECIFICATIONS.
7. UPON COMPLETION OF THE CONNECTION BUT PRIOR TO RECOVERING ANY TRENCHES AND/OR ACCESS DIGS FOR MANHOLES, REWA'S ENGINEERING DEPARTMENT MUST BE CONTACTED AT 864-299-4020 TO PERFORM A FINAL INSPECTION.
8. REFER TO TREE PROTECTION PLAN DETAILS.
9. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.

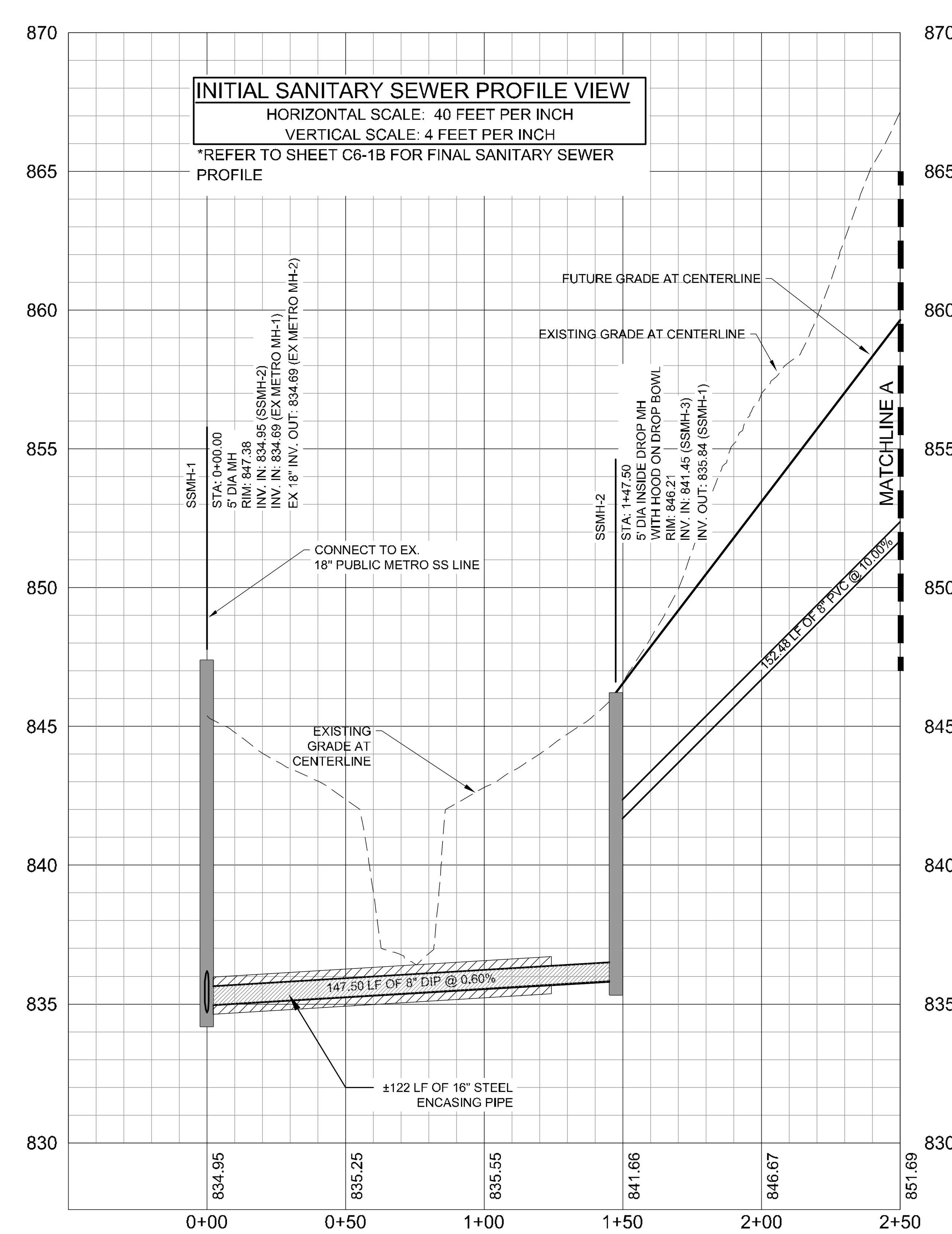
NOTE

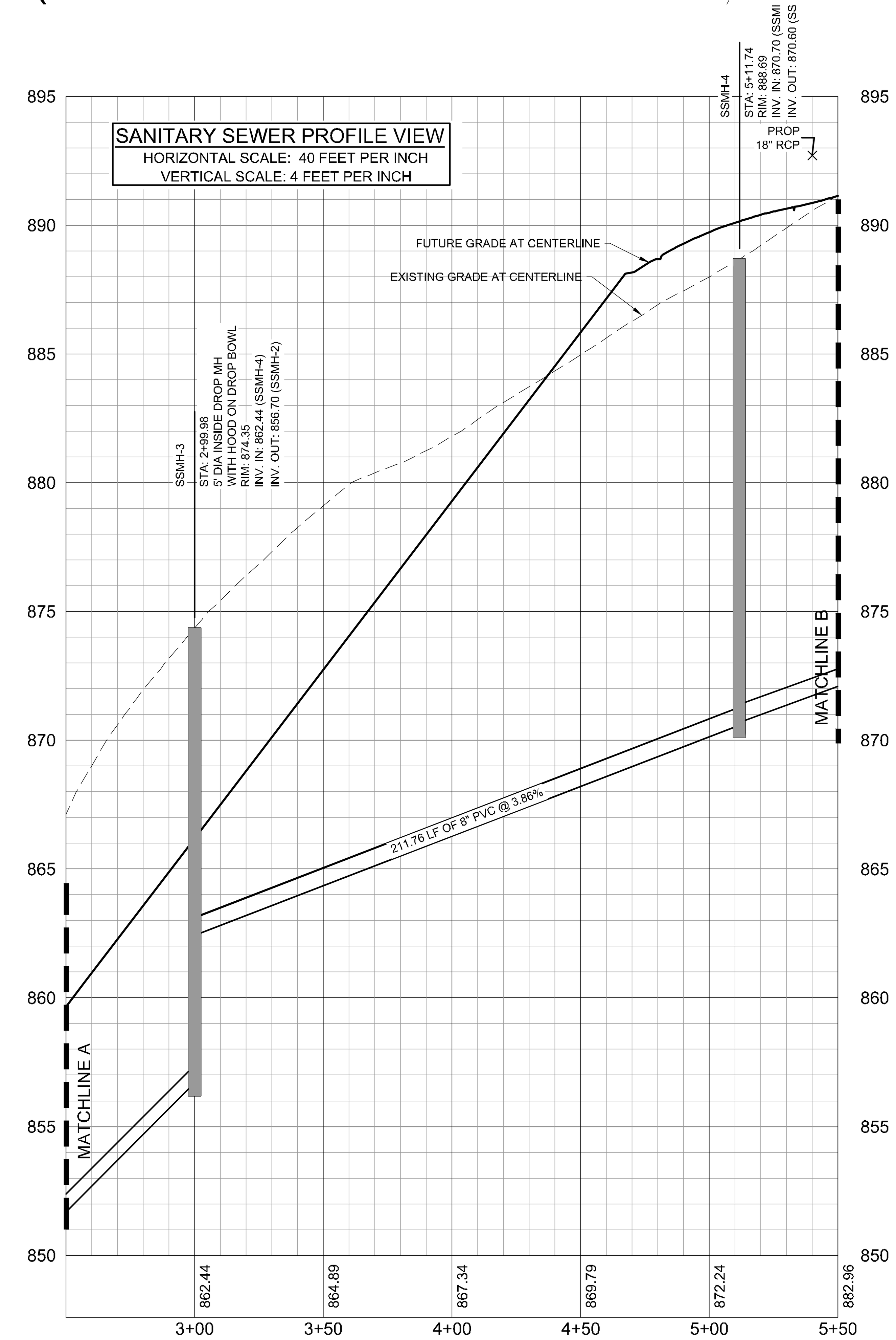
CONTACT JOEL LEWIS 864-303-1082 A MINIMUM OF 72 HOURS PRIOR TO ANY SEWER CONSTRUCTION.

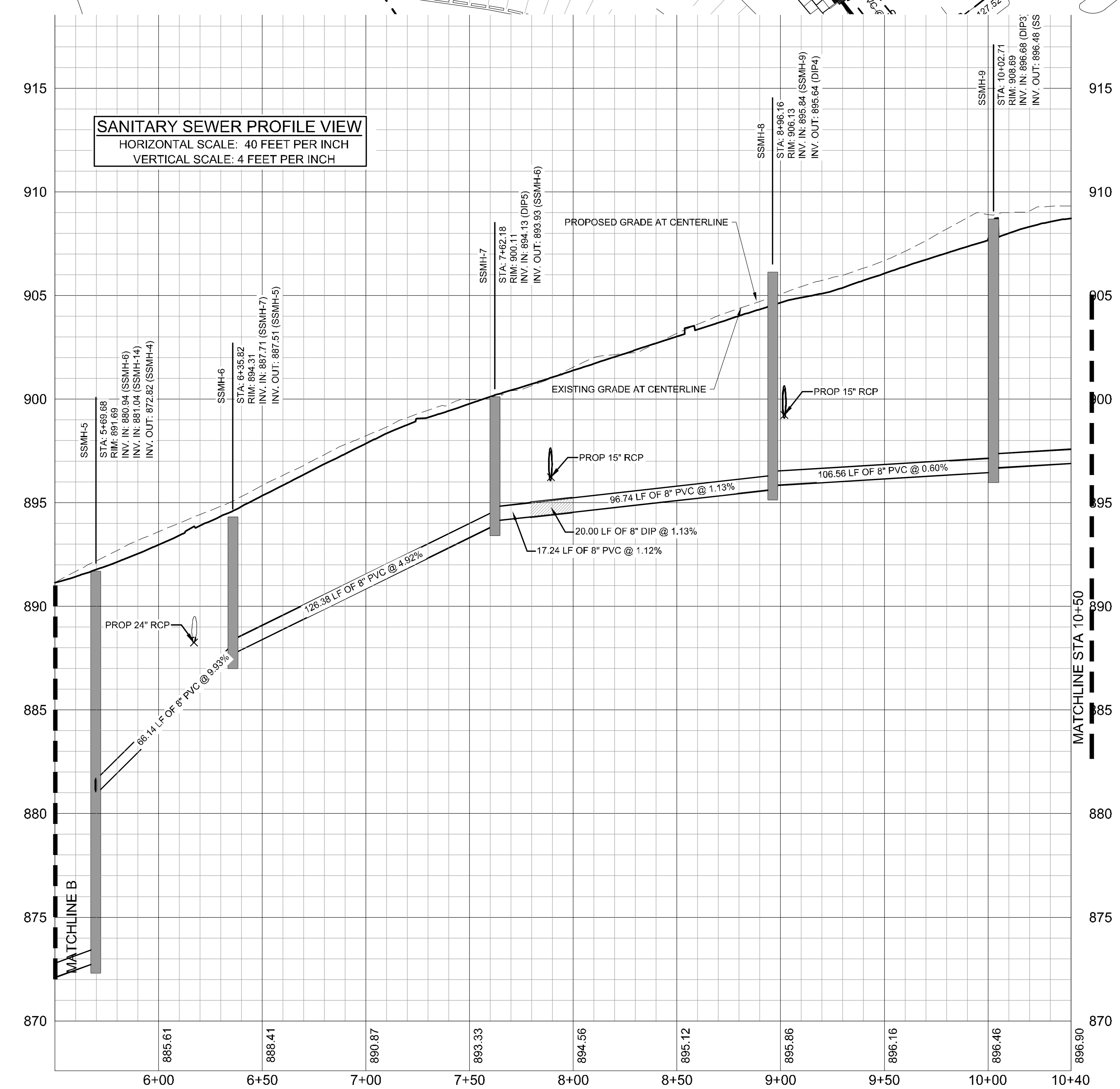
LEGEND

◇	PROPOSED FIRE HYDRANT
○	PROPOSED SANITARY SEWER MANHOLE
⊙	EXISTING SANITARY SEWER MANHOLE
— W —	PROPOSED WATER LINE
— SS —	PROPOSED SANITARY SEWER LINE
— W —	EXISTING WATER LINE
— SS —	EXISTING SANITARY SEWER LINE









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GREENVILLE

KEY MAP

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HARTNESS DEVELOPMENT, INC.

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DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=40'
0 20' 40' 80'

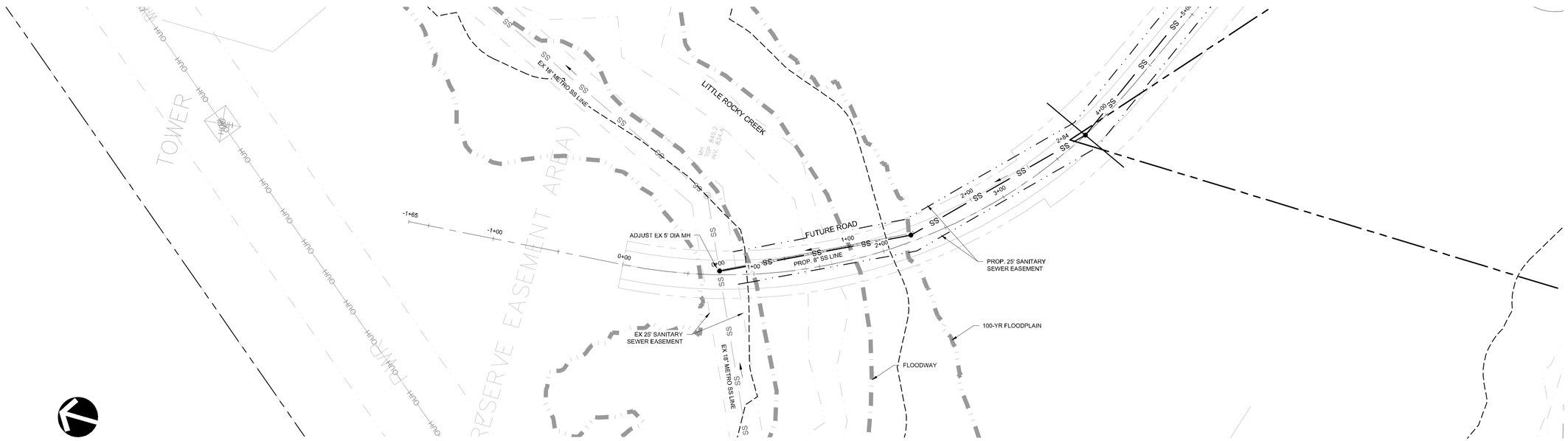
NORTH

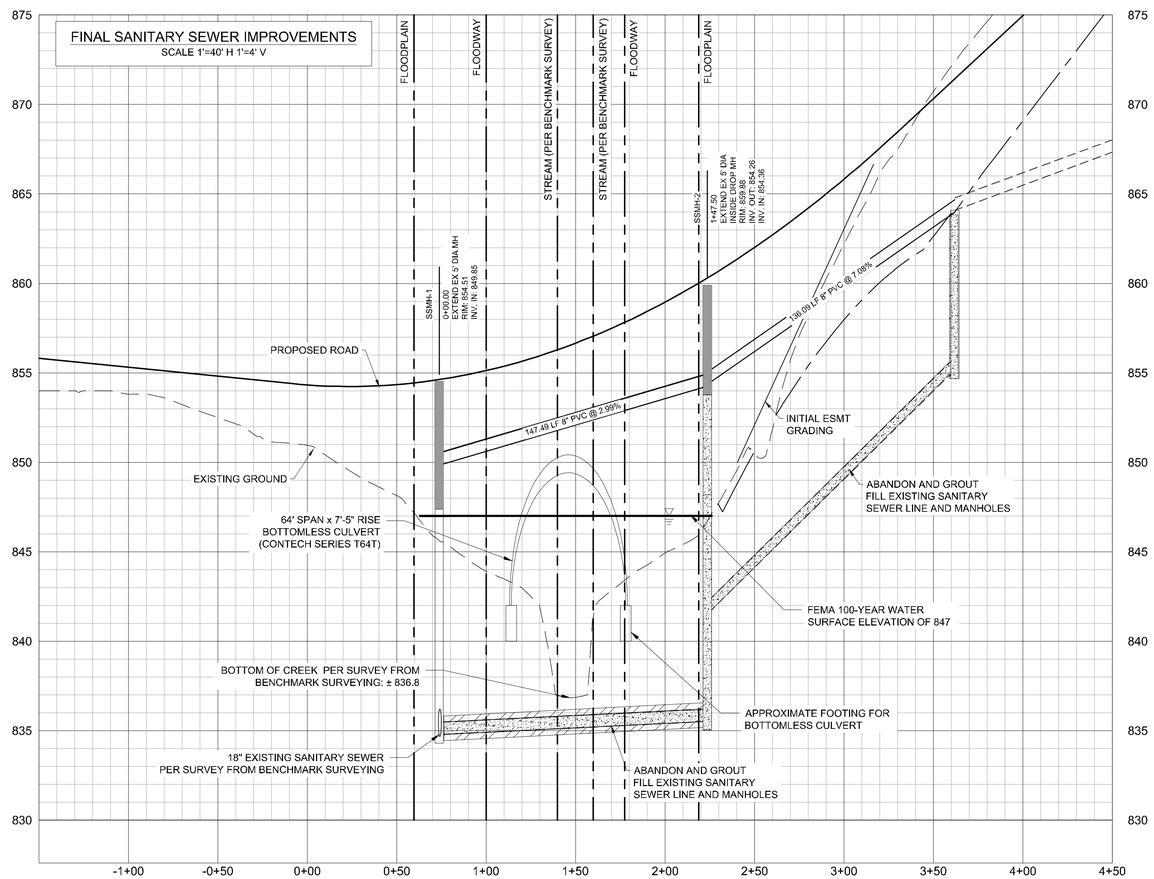
SHEET TITLE
SANITARY SEWER PLAN & PROFILE

SHEET NUMBER
C6-1A

2/3/2020 12:38 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-UTIL.DWG

ORIGINAL SHEET SIZE: 24" X 36"





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HARTNESS
GREENVILLE

KEY MAP

SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE NORTH

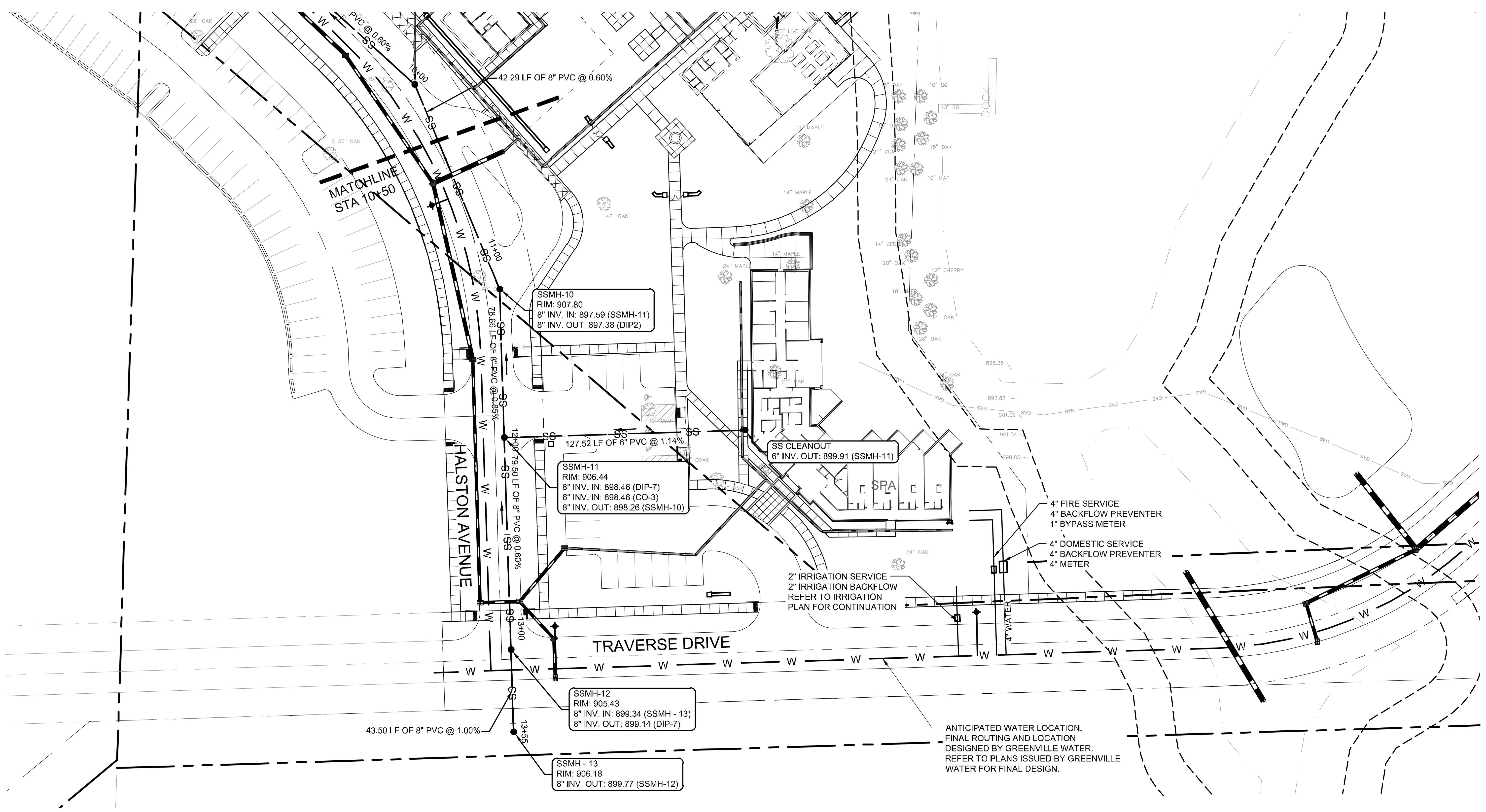
VERT: N/A
HORZ: 1"=40'
0 20' 40' 80'

SHEET TITLE

FINAL SANITARY SEWER PLAN & PROFILE

SHEET NUMBER

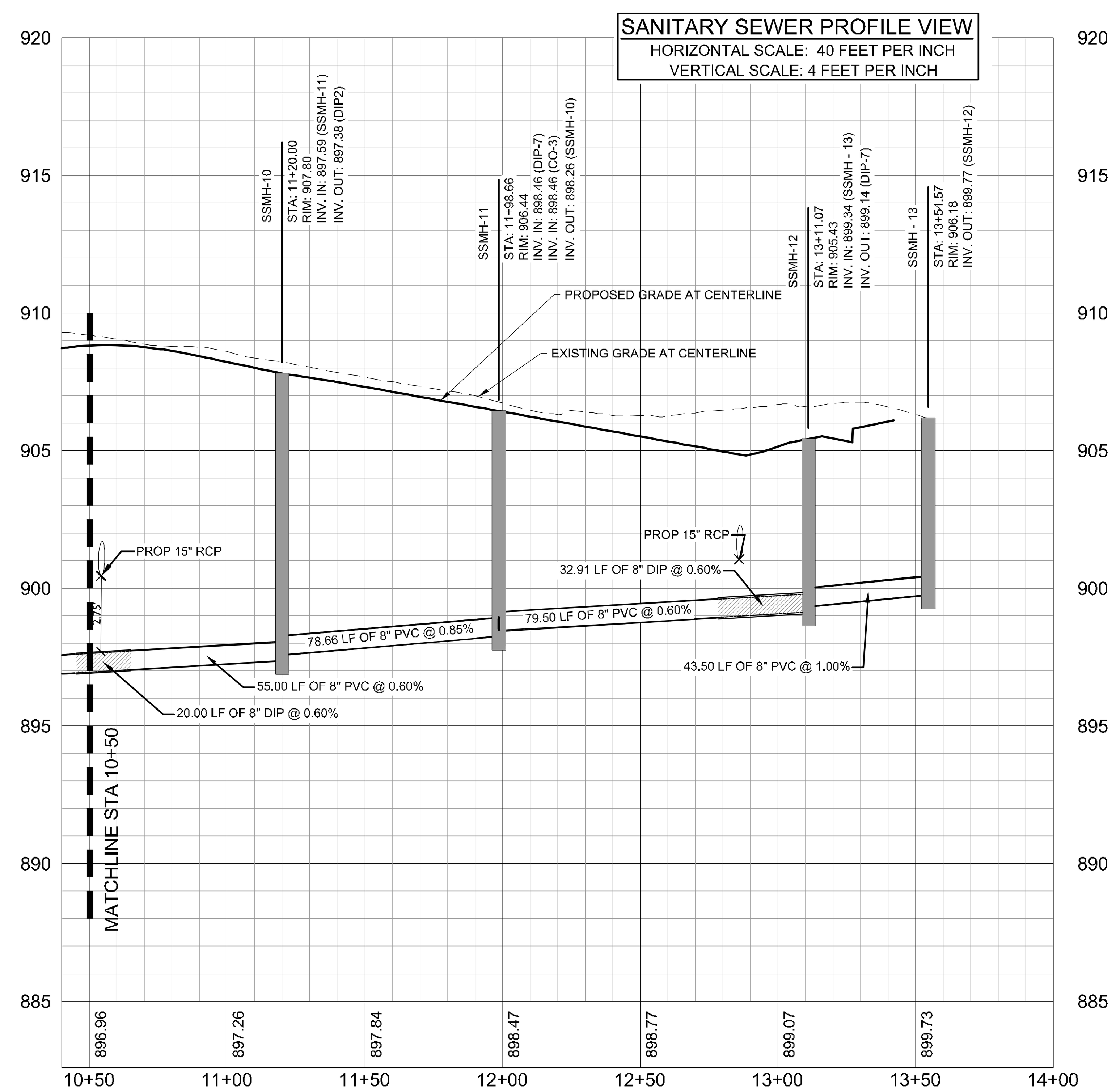
C6-2B



LEGEND	
⌖	PROPOSED FIRE HYDRANT
o	PROPOSED SANITARY SEWER MANHOLE
⊙	EXISTING SANITARY SEWER MANHOLE
—— W ——	PROPOSED WATER LINE
—— SS ——	PROPOSED SANITARY SEWER LINE
—— W ——	EXISTING WATER LINE
—— SS ——	EXISTING SANITARY SEWER LINE

NOTES:

1. PRIVATE UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR FINAL DESIGN.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, INCLUDING WATER, FIBER OPTIC, ELECTRIC, AND TRANSFORMER LOCATIONS (BY OTHERS).
3. PRELIMINARY WATER LAYOUT SHOWN FOR INFORMATION PURPOSES ONLY. FINAL DESIGN TO BE COMPLETED BY GREENVILLE WATER. CONTRACTOR TO OBTAIN PLANS AND COORDINATE CONSTRUCTION ACCORDING TO GREENVILLE WATER PLANS AND SPECIFICATIONS.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS (HORIZONTAL AND VERTICAL) AND SIZES OF ALL BUILDING UTILITY SERVICES (WATER, SEWER, FIRE, ETC.) WITH ARCHITECTURAL/MEP PLANS PRIOR TO CONSTRUCTION.
5. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE WITH GREENVILLE COUNTY, SCDOT, AND ALL OTHER LOCAL, STATE AND FEDERAL STANDARDS AND SPECIFICATIONS.
6. SANITARY SEWER MATERIALS AND INSTALLATION SHALL ADHERE TO ALL METROCONNECTS STANDARDS AND SPECIFICATIONS.
7. UPON COMPLETION OF THE CONNECTION BUT PRIOR TO RECOVERING ANY TRENCHES AND/OR ACCESS DIGS FOR MANHOLES, REWA'S ENGINEERING DEPARTMENT MUST BE CONTACTED AT 864-299-4020 TO PERFORM A FINAL INSPECTION.
8. REFER TO TREE PROTECTION PLAN DETAILS.
9. PRIVATE UTILITY RELOCATION AND REMOVAL TO BE COORDINATED BY OWNER.



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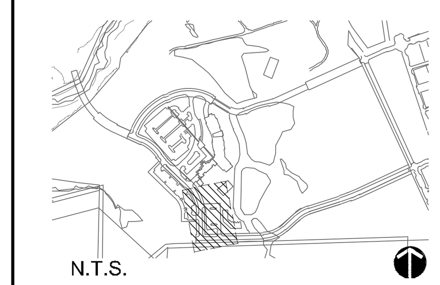

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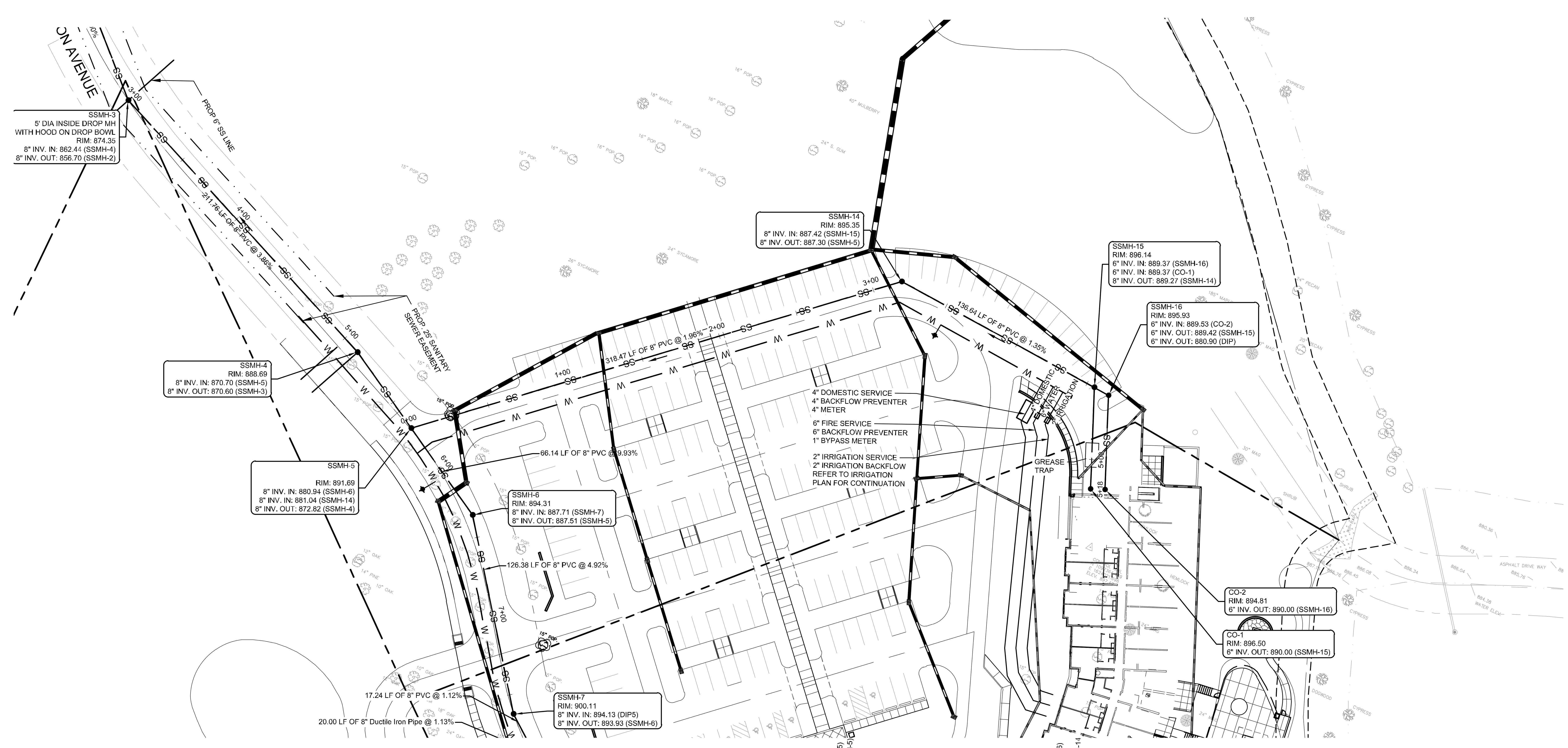
SANITARY SEWER PLAN & PROFILE

SHEET NUMBER

C6-2



LEGEND

Symbol	Description
◇	PROPOSED FIRE HYDRANT
○	PROPOSED SANITARY SEWER MANHOLE
Ⓢ	EXISTING SANITARY SEWER MANHOLE
—— W ——	PROPOSED WATER LINE
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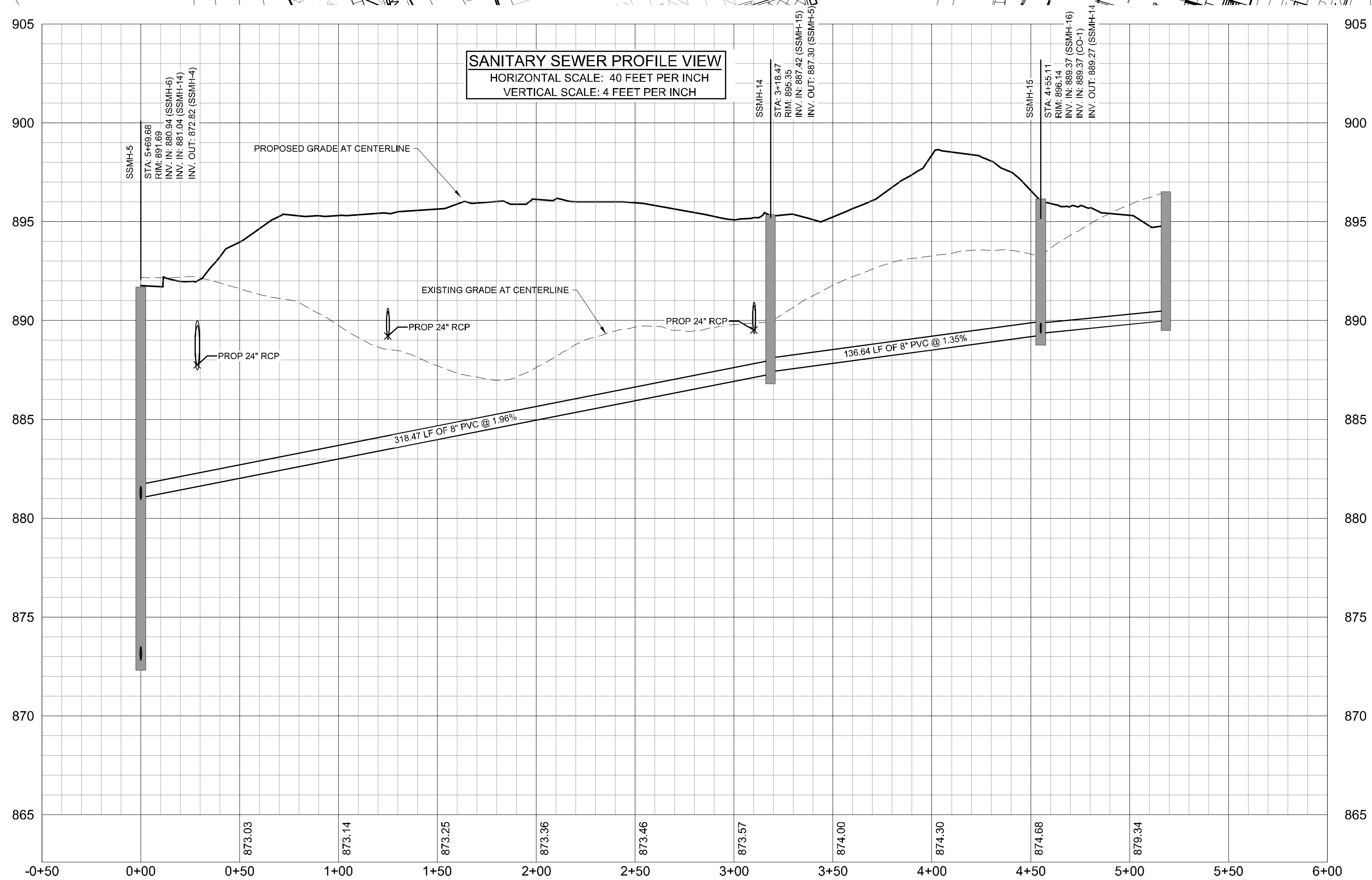

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0 20' 40' 80'

NORTH

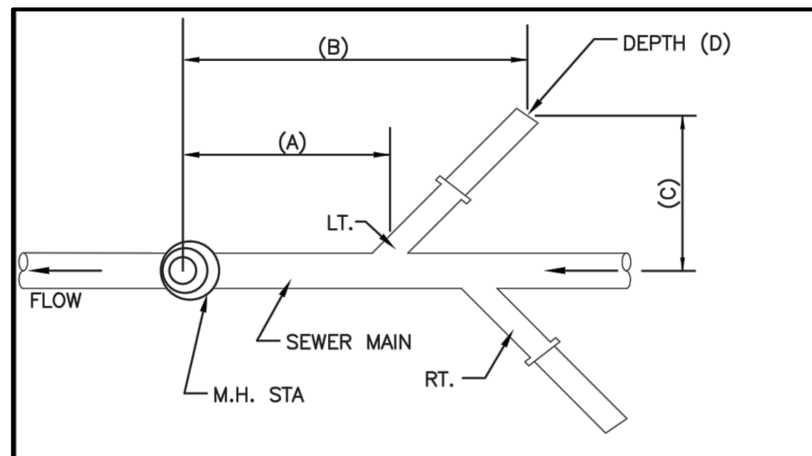
SHEET TITLE

SANITARY SEWER PLAN & PROFILE

SHEET NUMBER

C6-3

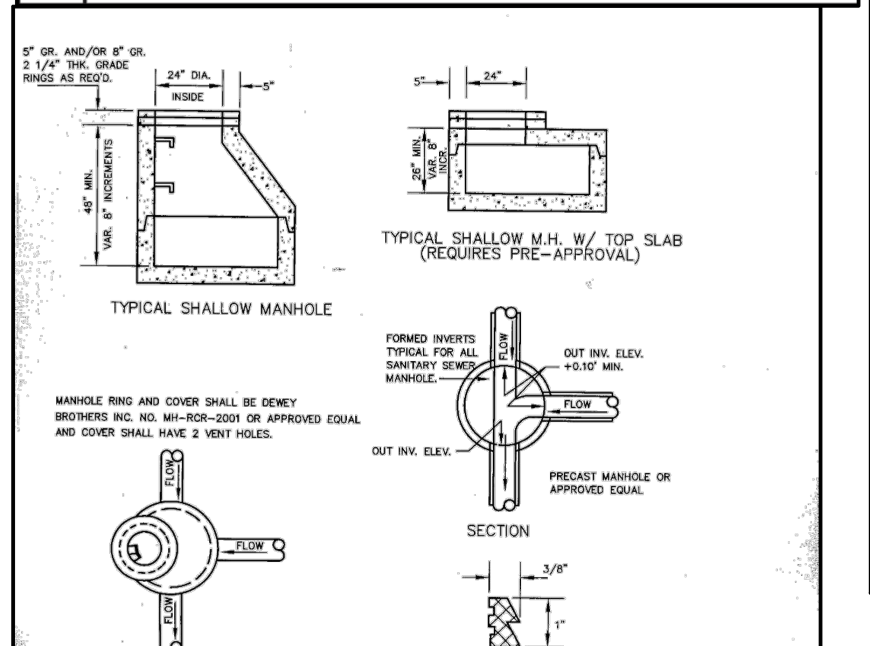
ORIGINAL SHEET SIZE: 24" X 36"



90° SERVICE HAS NO (B) DISTANCE

NOTE:
CONTRACTOR IS TO RECORD SERVICE LOCATIONS ACCORDING TO THE DIMENSIONS SHOWN.

1 SERVICE LOCATION DETAIL

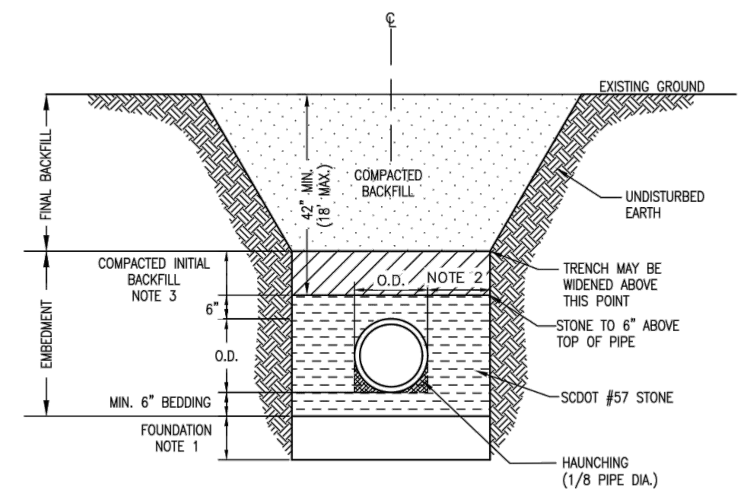


FLAT TOP MANHOLE (NTS)

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BY CONTACTING SC 811 A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTACT METRO, (864) 277-4442, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL SUPPLY METRO WITH A CURRENT CONSTRUCTION SCHEDULE PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING ALL WORK IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA).
5. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS OF METRO AND ALL OTHER APPLICABLE GOVERNING AUTHORITIES. GENERAL NOTES ARE PROVIDED, HOWEVER THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND DETAILS FOR ADDITIONAL CONSIDERATIONS.
6. ALL TRENCHES WITHIN THE ROADWAY SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AND ALL OTHER TRENCHES SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY TO PREVENT SETTLEMENT AND DAMAGE TO PAVING AND PIPELINE. STANDARD PROCTOR TESTING SHALL BE IN CONFORMANCE WITH ASTM D698. ALL FILL IS TO BE FREE OF ROOTS, TRASH, AND ORGANIC MATTER AND SHALL BE PLACED IN 6" LIFTS. NO STONE LARGER THAN SIX (6) INCHES SHALL BE USED AS BACKFILL. FOR TRENCHES OUTSIDE OF A PAVED SURFACE, THE TOP 6" LIFT SHALL BE SCREENED ORGANIC TOPSOIL AND BE PERMANENTLY STABILIZED WITH VEGETATIVE COVER. COMPACTION TESTING OF ALL FILLS AND BACKFILLS SHALL BE CONDUCTED BY A THIRD-PARTY TESTING FIRM DURING NEW SEWER SYSTEM INSTALLATION IN ACCORDANCE WITH METRO TECHNICAL SPECIFICATIONS. METRO RESERVES THE RIGHT TO REQUEST OF THE ENGINEER EVIDENCE OF PASSING COMPACTION TESTS AT ANY TIME DURING OR AFTER CONSTRUCTION. IN ADDITION, WHEN NEW SEWER IS INSTALLED IN THE FILL AREA, METRO WILL REQUIRE EVIDENCE THAT PROPER COMPACTION WAS COMPLETED PRIOR TO THE INSTALLATION OF THE NEW SEWER SYSTEM.
7. ALL PVC PIPE SHALL BE SDR 35, OR C900 DR-18 CELL CLASS 12454 MEETING ASTM STANDARDS. ALL DIP SEWER PIPE SHALL BE ASPHALT COATED CEMENT MORTAR LINED CLASS 50 DUCTILE IRON PIPE MEETING ANSI/AWWA STANDARDS WITH SPECIAL CONSIDERATION GIVEN TO CORROSIVE AND SEPTIC CONDITIONS. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF ASTM D2321 (PVC AND DIP) AND APPLICABLE ANSI/AWWA C600 STANDARDS (DIP) AND IN CONFORMANCE WITH THE STANDARD DETAIL, LATEST REVISION.
8. MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF FOUR (4) FEET AND BE PRECAST 4000 PSI REINFORCED CONCRETE CONFORMING TO ASTM C-478 WITH PREFORMED OPENINGS. THE MANHOLE SHALL BE CONSTRUCTED WITH A FLOW CHANNEL TO PROVIDE A SMOOTH CONNECTION BETWEEN THE INLET AND THE OUTLET INVERTS.
9. NO CONNECTION SHALL BE MADE TO THE MANHOLE BETWEEN 12" & 5' ABOVE THE INVERT OUT. THE MINIMUM OUTSIDE DROP SHALL BE NO LESS THAN 5'.
10. EACH INDIVIDUALLY OWNED PARCEL AND/OR EACH BUILDING HAVING PLUMBING FIXTURES INSTALLED SHALL HAVE AT LEAST ONE DIRECT AND INDIVIDUAL CONNECTION TO A WASTEWATER MAIN WITHOUT CROSSING ADJACENT PROPERTY LINES.
(A.) NEW CONNECTIONS TO AN EXISTING WASTEWATER MAIN THAT IS ACTIVELY CARRYING FLOW SHALL BE ACCOMPLISHED WITH A TAPPING SADDLE – ROMAC INDUSTRIES TYPE CB, OR APPROVED EQUAL.
(B.) NEW CONNECTIONS CONSTRUCTED AS PART OF A NEW MAIN INSTALLATION SHALL BE ACCOMPLISHED WITH A TEE-WYE FITTIING AND SET AT THE 10 OR 2 O'CLOCK POSITION. THE LONG BRANCH OF THE WYE SHALL HAVE THE SAME INSIDE DIAMETER AS THE MAIN. STRAIGHT TEE CONNECTIONS WILL NOT BE ACCEPTED. SERVICE CONNECTION LATERALS SHALL TERMINATE ONE (1) FOOT BEYOND THE RIGHT-OF-WAY OR EASEMENT BOUNDARY WITH AN AIR/WATER TIGHT PLUG PER THE STANDARD DETAILS. THERE SHALL BE A MINIMUM OF 5' SEPARATION BETWEEN SERVICE TEES.
11. SERVICE CONNECTIONS SHALL BE A MINIMUM OF THREE (3) FEET FROM PIPE JOINTS OR MANHOLES MEASURED FROM THE NEAREST EDGE OF THE WYE FITTING.
12. THE CONTRACTOR SHALL NOT CONNECT SERVICE LATERALS TO EXISTING OR NEW MANHOLES WITHOUT PRIOR WRITTEN APPROVAL FROM METRO.
13. THE END OF THE SERVICE LATERAL SHALL BE MARKED BY A 2" MARKER PIPE OR A 2" X 4" TREATED POST PAINTED GREEN DRIVEN A MINIMUM OF THREE (3) FEET AND PROTRUDING APPROXIMATELY THREE (3) FEET ABOVE FINAL GRADE.
14. NO FLOW MAY BE DISCHARGED INTO A NEWLY CONSTRUCTED SANITARY SEWER MAIN UNTIL A PERMIT TO OPERATE HAS BEEN OFFICIALLY ISSUED BY SCDHEC AND A COPY HAS BEEN RECEIVED BY METRO.
15. PRESSURE TEST TO BE PERFORMED ON ALL LINES. DEFLECTION TEST TO BE PERFORMED ON ALL PVC LINES NO EARLIER THAN 30 DAYS AFTER INSTALLATION IS COMPLETE. ALL MANHOLES SHALL BE VACUUM TESTED. ALL TESTING TO BE PERFORMED IN THE PRESENCE OF A METRO REPRESENTATIVE AND A REPRESENTATIVE OF THE DESIGN ENGINEER. ALL TESTS SHALL BE IN CONFORMANCE WITH METRO AND SCDHEC SPECIFICATIONS.
16. THE CONTRACTOR SHALL PROVIDE TO THE DESIGN ENGINEER A RECORD DRAWING OF THE SANITARY SEWER SYSTEM. THE DRAWINGS SHALL, AT A MINIMUM, INCLUDE THE SANITARY SEWER MAIN AND MANHOLE LOCATIONS, PIPE MATERIAL FOR THE MAIN AND THE SERVICE LATERALS, THE DISTANCE OF EACH SERVICE CONNECTION TO THE DOWNSTREAM MANHOLE, LENGTH OF EACH SERVICE LATERAL, AND THE LOCATION AND DEPTH OF EACH SERVICE LATERAL TERMINUS. THE ENGINEER SHALL USE THIS DOCUMENTATION AS WELL AS INFORMATION OBTAINED BY A SURVEYOR TO PREPARE RECORD DRAWINGS. THE ENGINEER CANNOT APPLY FOR FINAL APPROVAL UNTIL THIS INFORMATION IS OBTAINED FROM THE CONTRACTOR.

MetroConnects
Metropolitan Sewer Subdistrict
120 Augusta Arbor Way
Greenville, South Carolina

Rev. Date	Rev. Date	Rev. Date	Scale
07/06/18			N.T.S.
			Detail No. E-1



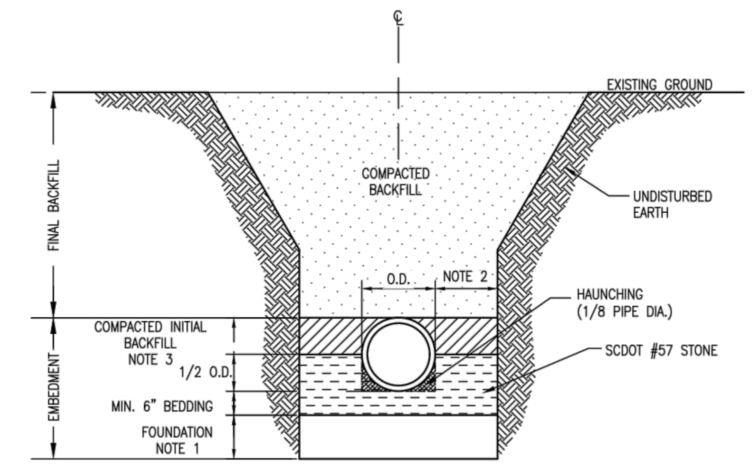
NOTES:

1. STABILIZATION STONE REQUIRED WHEN SOIL CONDITIONS ARE UNSTABLE.
2. CLEAR DISTANCE NOT LESS THAN 6" EACH SIDE.
3. 18" MINIMUM VERTICAL TRENCH WALL ABOVE TOP OF PIPE.
4. INITIAL BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED. INITIAL BACKFILL SHALL CONTAIN NO MATERIAL OVER 1 1/2" IN DIAMETER, FROZEN LUMPS, OR DEBRIS.
5. ALL TRENCHES WITHIN THE ROADWAY SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AND ALL OTHER TRENCHES SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY.

NEW PIPE EMBEDMENT – SHEET 1 OF 2
PVC PIPE

MetroConnects
Metropolitan Sewer Subdistrict
120 Augusta Arbor Way
Greenville, South Carolina

Rev. Date	Rev. Date	Rev. Date	Scale
07/06/18			N.T.S.
			Detail No. E-2.1



NOTES:

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NEW PIPE EMBEDMENT – SHEET 2 OF 2
DUCTILE IRON PIPE

MetroConnects
Metropolitan Sewer Subdistrict
120 Augusta Arbor Way
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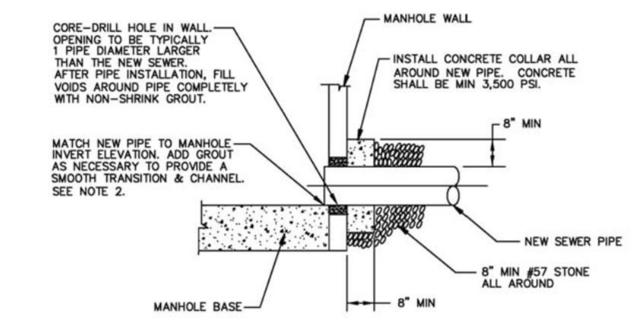
Rev. Date	Rev. Date	Rev. Date	Scale
07/06/18			N.T.S.
			Detail No. E-2.2



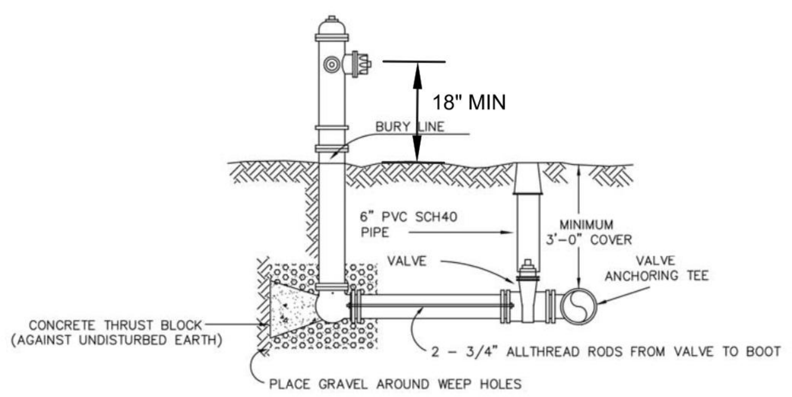
NOTES:

1. REFER TO THIS DETAIL WHEN CONNECTING NEW SEWER PIPES (INCLUDING SERVICE LATERALS) TO EXISTING MANHOLES OR NEW MANHOLES WHERE FLEXIBLE COUPLINGS ARE NOT USED.
2. THIS DETAIL DEPICTS THE NEW SEWER ENTERING AT THE EXIST INVERT ELEVATION. THIS WILL NOT BE THE CASE FOR ALL MAIN SEWERS. PROVIDE A SMOOTH TRANSITION AND INVERT CHANNEL FOR ANY INCOMING ELEVATION PER THE STANDARD BENCH AND INVERT DETAIL.

Renewable Water Resources (ReWa)
NEW PIPE CONNECTION AT MANHOLE

No.	Date	By	Revision	Scale	Approved By	Date	Detail No.
				NTS			SS-24

11 REWA CONNECTION DETAIL

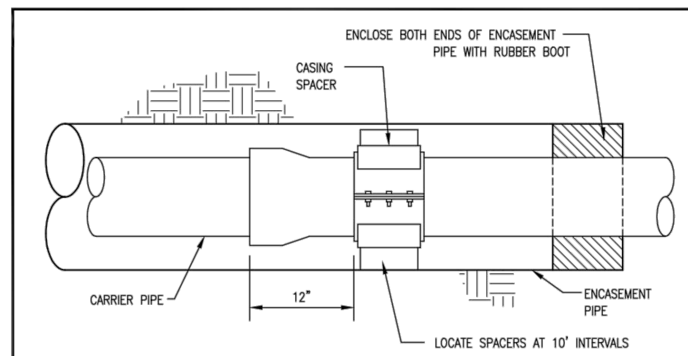


NOTES:
1) FIRE HYDRANT TO BE INSTALLED PLUMB.
2) FIRE HYDRANT TO BE 3-WAY WITH DEPTH OF BURY TO BE DETERMINED BY FIELD CONDITIONS.
3) HYDRANT LEAD TO BE PRESSURE CLASS 350 DUCTILE IRON.
4) WHEN FIRE HYDRANT RESTRAINT BY RODDING NECESSARY, TWO 3/4" ø ALLTHREAD RODS REQUIRED AS A MINIMUM.

GreenvilleWater

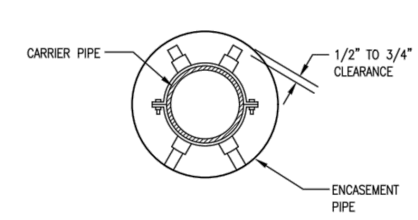
TYPICAL HYDRANT INSTALLATION
REVISED: 9/1/2015

8 FIRE HYDRANT



ELEVATION

DIP CARRIER SIZE	MIN. STEEL CASING SIZE	MIN. WALL THICKNESS
6"	12"	0.188"
8"	16"	0.250"
10"	18"	0.250"
12"	20"	0.281"
15"	24"	0.344"
16"	30"	0.406"
18"	30"	0.406"

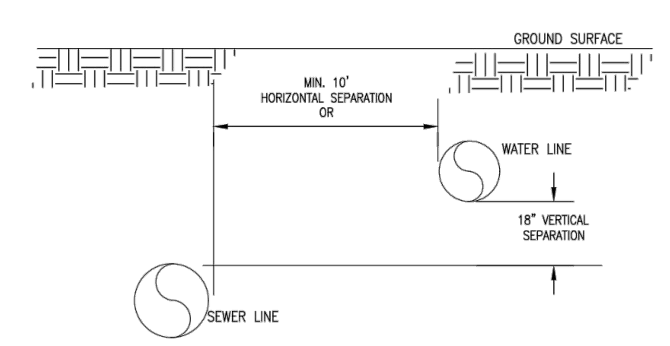


SECTION

ENCASEMENT INSTALLATION

MetroConnects
Metropolitan Sewer Sub-District
120 Augusta Arbor Way
Greenville, South Carolina

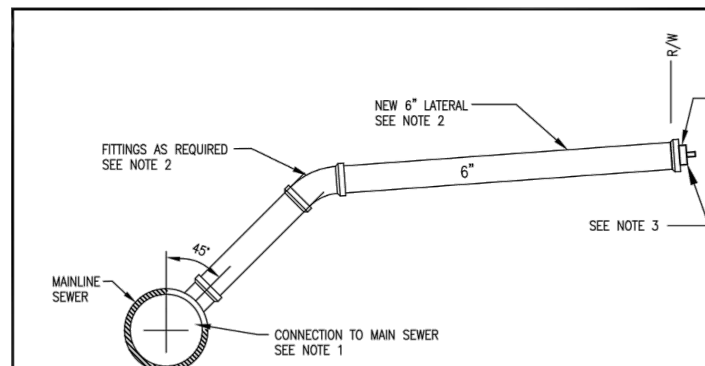
Rev. Date	Rev. Date	Rev. Date	Scale
07/06/18			N.T.S.
			Detail No. E-8



WATER AND SANITARY SEWER
SEPARATION DETAIL

MetroConnects
Metropolitan Sewer Subdistrict
120 Augusta Arbor Way
Greenville, South Carolina

Rev. Date	Rev. Date	Rev. Date	Scale
			N.T.S.
			Detail No. E-10



NOTES:

1. NEW SERVICE LATERALS SHALL BE CONNECTED TO THE SEWER MAIN BY INSTALLING A NEW DIP OR PVC TEE, OR CONNECTING TO THE EXISTING TEE, AS SPECIFIED AND/OR DIRECTED BY METROCONNECTS.
2. ALL NEW LATERALS SHALL BE A MINIMUM OF 6". CONTRACTOR SHALL MINIMIZE BENDS AND FITTINGS. CONTRACTOR SHALL PROVIDE MIN 1% SLOPE. 90-DEGREE BENDS ARE NOT ALLOWED FOR NEW LATERALS. LATERAL SHALL BE EMBEDDED PER EMBEDMENT DETAIL. SERVICE LATERAL PIPE AND FITTINGS SHALL BE PVC SDR-35 CONFORMING ASTM D-3034, CELL CLASSIFICATION 12454.

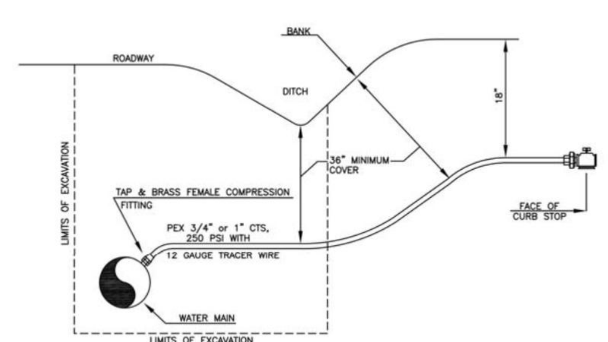
   A MINIMUM OF 4' OF COVER SHALL BE MAINTAINED WITHIN THE SEWER OR ROAD RIGHT OF WAY. ANY LATERAL WITH LESS THAN 4' OR MORE THAN 18' OF COVER OR CONNECTS TO A D.I.P. MAIN SHALL BE CONSTRUCTED WITH SPECIAL CLASS 50 D.I.P. TRANSITIONS FROM PVC TO D.I.P. LATERALS SHALL BE MADE USING C-900 DR18 X 3034 ADAPTER BUSHING AS MANUFACTURED BY MACON PLASTICS, OR APPROVED EQUAL.

   ANY LATERALS INSTALLED LESS THAN 18" UNDER STORM DRAINAGE PIPE SHALL BE CONSTRUCTED WITH SPECIAL CLASS 50 D.I.P. A MINIMUM 18' SINGLE SECTION OF D.I.P. SHALL BE CENTERED UNDER THE STORM DRAINAGE PIPE.
3. CONTRACTOR SHALL EXTEND THE NEW 6" LATERAL TO THE EDGE OF THE PERMANENT SEWER R/W OR ROAD R/W.
4. THE CONNECTION TO A PRIVATE SERVICE LATERAL SHALL BE MADE USING THE APPROVED COUPLING – NOTE THAT SPECIAL TRANSITION COUPLINGS ARE REQUIRED FOR 6" TO 4" CONNECTIONS. THE CONNECTION SHALL BE WATERTIGHT.

NEW SERVICE LATERAL INSTALLATION

MetroConnects
Metropolitan Sewer Subdistrict
120 Augusta Arbor Way
Greenville, South Carolina

Rev. Date	Rev. Date	Rev. Date	Scale
			N.T.S.
			Detail No. E-11



1. ALL WORK TO BE DONE BY CONTRACTOR UNLESS OTHERWISE SHOWN.
2. MINIMUM TRENCH WIDTH 12". COMPACTION REQUIRED.
3. SERVICE LINE MUST HAVE 36" COVER (MIN.) UNDER ROADSIDE DITCH. – METER NOT TO BE PLACED IN DRIVEWAY. SERVICE LINE TO BE INSTALLED NEAR THE CENTER OF THE LOT.
4. OUTLET PIPING CONSISTING OF THREADED BRASS FEMALE COUPLING, 4' OF OUTLET SERVICE PIPE, AND BALL VALVE TO BE ASSEMBLED AND READY FOR INSTALLATION PRIOR TO GW ARRIVAL TO SITE FOR METER SETTER INSTALLATION.
5. CORPORATION STOPS – FORD F1000-_-G OR MUELLER H15008-N.
6. CURB STOPS – FORD 241-___-G-NL OR MUELLER H15175-N.
7. USE FORD OR MUELLER BRASS COMPRESSION FITTINGS FOR PEX.
8. CONTRACTOR TO BLOW OFF SERVICE LINE AND CLOSE CURB STOP.
9. CALL GW ENGINEERING (241-6100) TO REPORT WHEN READY FOR INSPECTION OR FOR ASSISTANCE IF UNUSUAL CONDITIONS EXIST.

GreenvilleWater

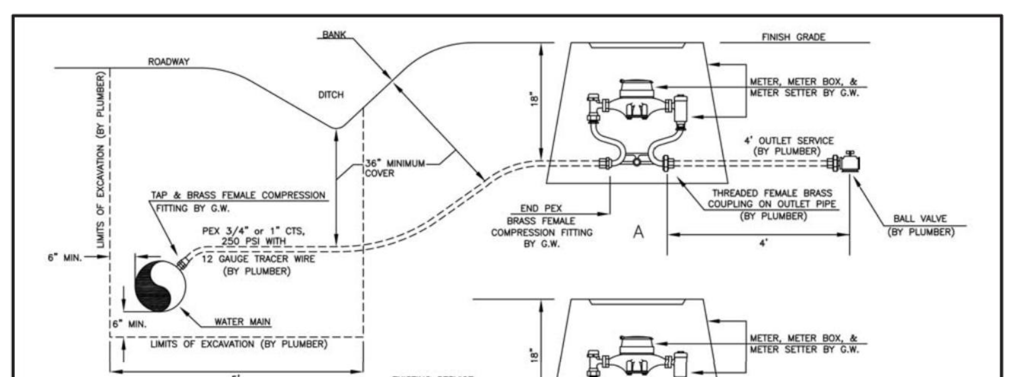
TYPICAL TAP TO CURB INSTALLATION
NEW SUBDIVISIONS
DEVELOPER INSTALLED TAP TO CURB

DATE: AUGUST 26, 2015

13 WATER TAP TO CURB INSTALLATION

MATERIALS AND INSTALLATION SHALL ADHERE TO ALL METROCONNECTS STANDARDS AND SPECIFICATIONS

UPON COMPLETION OF THE CONNECTION BUT PRIOR TO RECOVERING ANY TRENCHES AND/OR ACCESS DIGS FOR MANHOLES, REWA'S ENGINEERING DEPARTMENT MUST BE CONTACTED AT 864-299-4020 TO PERFORM A FINAL INSPECTION



METER SIZE	5/8"	1"
SPACE NEEDED BETWEEN FACE OF FEMALE COUPLING AND END OF PEX A	7 1/4"	10 3/4"
SPACE NEEDED BETWEEN FACE OF FEMALE COUPLING AND FACE OF EXISTING CURB STOP B	8 3/4"	12 1/2"

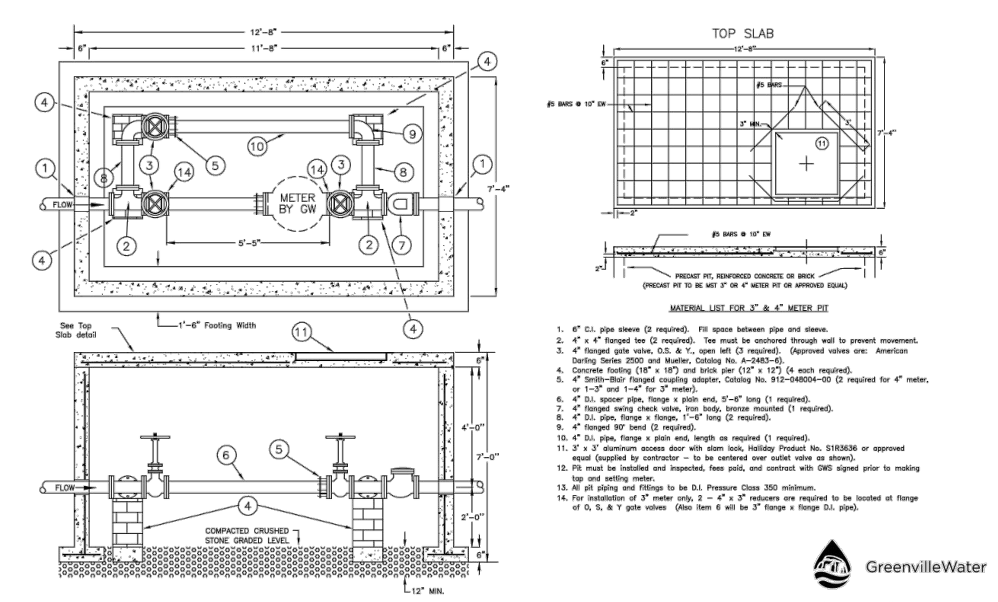
1. ALL EXCAVATION TO BE DONE BY PLUMBER.
2. APPROXIMATE SIZE OF HOLE WHERE TAP IS MADE IS 5' X 5' (6" BEHIND AND UNDER MAIN). HOLE TO BE WIDER AND SHORED WHEN MAIN IS DEEPER THAN 5'. – HOLE FOR 5/8" METER BOX TO BE 3' X 3' X 21" DEEP, 1" METER BOX 30" WIDE X 42" LONG X 18" DEEP.
3. SERVICE LINE MUST HAVE 36" COVER (MIN.) UNDER ROADSIDE DITCH. – METER NOT TO BE PLACED IN DRIVEWAY.
4. OSHA APPROVED LADDER TO BE PROVIDED BY CONTRACTOR IN EXCAVATION DEEPER THAN 5'.
5. PLUMBER SHOULD CALL G.W. ENGINEERING (241-6100) TO REPORT WHEN READY FOR METER TO BE SET OR FOR ASSISTANCE IF UNUSUAL CONDITIONS EXIST.
6. OUTLET PIPING CONSISTING OF THREADED BRASS FEMALE COUPLING, 4' OF OUTLET SERVICE PIPE, AND BALL VALVE TO BE ASSEMBLED BY PLUMBER AND READY FOR INSTALLATION PRIOR TO G.W. ARRIVAL TO SITE.
7. USE FORD OR MUELLER BRASS COMPRESSION FITTINGS FOR PEX.

GreenvilleWater

TYPICAL METER INSTALLATION
TAPS BY GREENVILLE WATER

DATE: AUGUST 19, 2015

9 METER INSTALLATION



MATERIAL LIST FOR 3" & 4" METER PIT

1. 6" C.I. pipe sleeve (2 required). Fill space between pipe and sleeve.
2. 4" x 4" flanged tee (2 required). Tee must be anchored through wall to prevent movement.
3. 4" flanged gate valve, O.S. & Y., open left (3 required). (Approved valves are: American Darling Series 2500 and Mueller, Catalog No. A-2483-6).
4. Concrete footing (18" x 18") and brick pier (12" x 12") (4 each required).
5. 4" Smith-Blair flanged coupling adapter, Catalog No. 912-048004-00 (2 required for 4" meter, or 1-3" and 1-4" for 3" meter).
6. 4" D.I. spacer pipe, flange x plain end, 5'-6" long (1 required).
7. 4" flanged swing check valve, iron body, bronze mounted (1 required).
8. 4" D.I. pipe, flange x flange, 1'-6" long (2 required).
9. 4" flanged 90° bend (2 required).
10. 4" D.I. pipe, flange x plain end, length as required (1 required).
11. 3' x 3' aluminum access door with slam lock, Halliday Product No. S1R3636 or approved equal (supplied by contractor – to be centered over outlet valve as shown).
12. Pit must be installed and inspected, fees paid, and contract with GWS signed prior to making tap and setting meter.
13. All pit piping and fittings to be D.I. Pressure Class 350 minimum.
14. For installation of 3" meter only, 2 – 4" x 3" reducers are required to be located at flange of O, S, & Y gate valves (Also item 6 will be 3" flange x flange D.I. pipe).

GreenvilleWater

3" AND 4" METER PIT
REVISED: 8/23/2013
L:\ENGG\DWG-SUPPORT\DETAILS\3&4METERPIT.DWG

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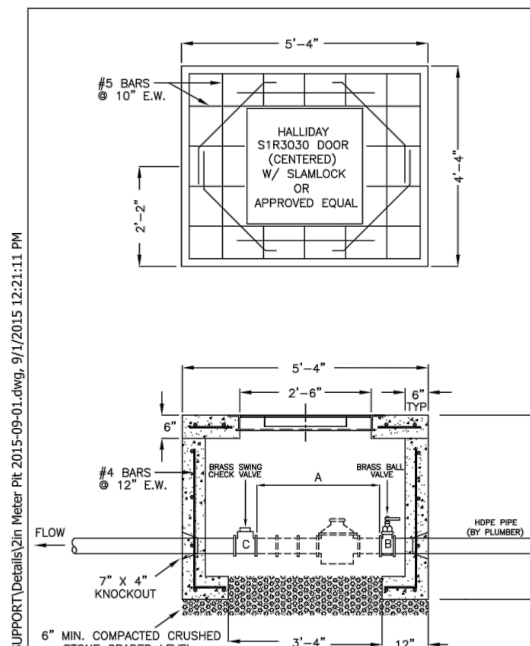

METER INSTALLATION PROCEDURE

1. A CONTRACT FOR WATER SERVICE MUST BE SIGNED AND ALL APPLICABLE FEES PAID AT THE ENGINEERING OFFICE.
2. THE PLUMBING CONTRACTOR OR APPLICANT IS RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS FOR EXCAVATION.
3. THE METER PIT IS TO BE INSTALLED AND INSPECTED BEFORE THE EXCAVATION IS MADE FOR THE TAP.
4. THE TAP AND METER INSTALLATION IS TO BE SCHEDULED WITH GREENVILLE WATER FOR COORDINATING THIS WORK. FOR OTHER INFORMATION, CALL G.W., TELEPHONE No. 241-6100.
5. PRECAST METER PIT BY APPROVED MANUFACTURERS (CURRENTLY: MST CONCRETE OR RINKER MATERIALS).

	METER SIZE	1-1/2"	2"
A	SPACE FOR METER	2'-4"	2'-8"
B	BRASS BALL VALVE, F.I.P. x F.I.P.	MUELLER B-20 200 FORD B11-666W	MUELLER B-20 200 FORD B11-777W
C	BRASS SWING CHECK VALVE (1-1/2" OR 2") F.I.P. x F.I.P., 200 P.S.I. W.O.G.		

GreenvilleWater

1-1/2" & 2"
WATER METER PIT
REVISED: 9/1/2015

LandDesign.
223 NORTH GRAHAM STREET
CHARLOTTE, NC 28202
704.333.0325
WWW.LANDDESIGN.COM
SC ENG. FIRM LICENSE # C01396

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2001 Irving Boulevard
Suite 157
Dallas, Texas
75207-6603
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www.swagroup.com
+1.214.954.0016 o

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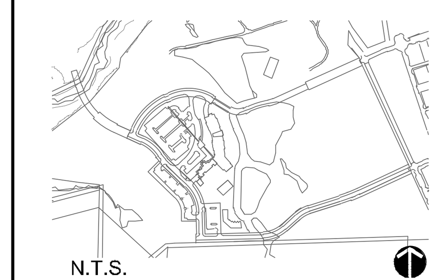
C+TC Design Studio, Inc.
3300 NE Expy, Bldg. 6, Atlanta, GA 30341
770-676-7600 | fax 770-676-9600
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS
GREENVILLE, SC
HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.# 1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=30'
0 15' 30' 60'

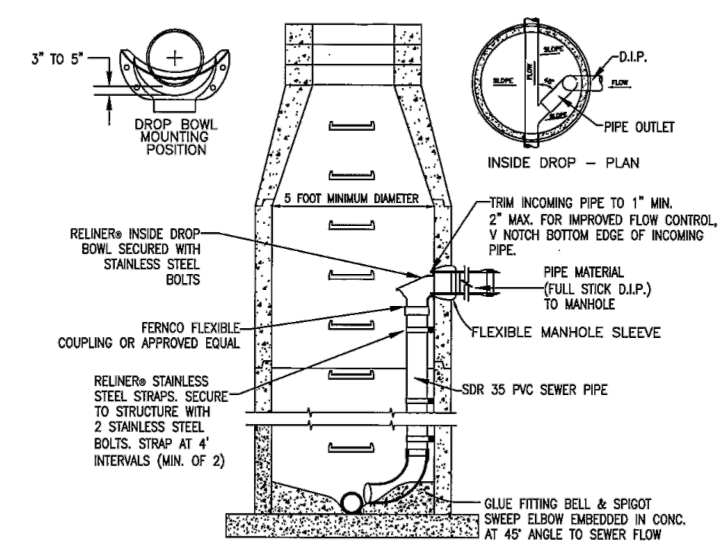
NORTH

SHEET TITLE
UTILITY DETAILS

SHEET NUMBER
C6-4

2/3/2020 12:40 PM FERNANDO DE JESUS N:\2017\1017303\CAD\CONSTRUCTION DOCUMENTS\CD\1017303-UTILITIES DETAILS.DWG

ORIGINAL SHEET SIZE: 24" X 36"

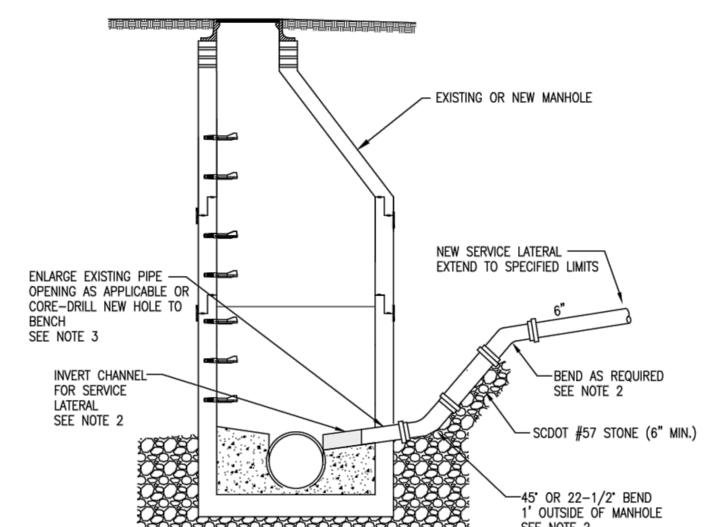


INSIDE DROP CONNECTION

NOTE
1. MINIMUM DROP (INVERT IN – DROP INVERT) SHALL BE 5'. MAXIMUM DROP SHALL BE 20'
2. LOCATION OF STEPS SHALL NOT CONFLICT WITH DROP CONNECTION (90° FROM DROP PIPE).
3. PROVIDE CHANNEL WITH CONTINUOUS INVERT FROM DROP CONNECTION TO INVERT OF SEWER MAIN.
4. SEE DETAIL OF STANDARD PRECAST CONCRETE MANHOLE FOR ADDITIONAL DETAILS AND REQUIREMENTS.
5. CONNECTIONS TO WASTEWATER MAINS OF OTHER MATERIAL SHALL BE MADE WITH HARCO MATERIAL TRANSITION COUPLING OR APPROVED EQUAL.
6. SLOPE OF MAIN SEWER LINE APPROACH TO THE DROP ASSEMBLY SHOULD BE NO GREATER THAN 5%
7. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP BOWL, OR APPROVED EQUAL AS PRODUCED BY:
RELINER–DURAN, INC.
53 MT. ARCHER RD,
LYME, CT 06371
8. SECURE DROP PIPE TO MANHOLE WALL WITH RELINER–DURAN, INC STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS, OR APPROVED EQUAL.

INSIDE DROP MANHOLE

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
	07/06/18			Detail No. E-20.1

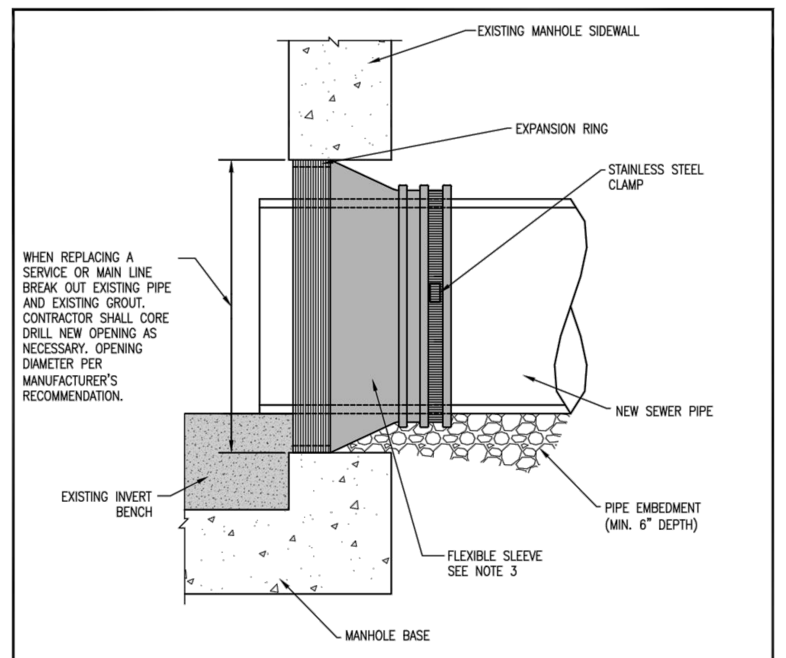


NOTES:

1. REFER TO THIS DETAIL WHEN CONNECTING LATERALS TO MANHOLES.
2. ROUTE ALL SERVICE LATERALS BEING INSTALLED TO MANHOLES SUCH THAT THE SERVICE ELEVATION MATCHES CROWN OF OUTGOING PIPE. CONTRACTOR SHALL USE BENDS AS NECESSARY. DROP PIPES INSIDE MANHOLES SHALL NOT BE ALLOWED. MIN. 3500 PSI CONCRETE. THE WIDTH OF THE CHANNEL SHALL BE EQUAL TO SERVICE LATERAL DIAMETER. THE HEIGHT OF THE CHANNEL SHALL BE 0.8 OF THE PIPE DIAMETER. PROVIDE A SWEEP IN THE EXISTING CHANNEL FOR A SMOOTH TRANSITION TO THE MAIN INVERT CHANNEL. THE CHANNEL SHALL BE UNIFORM, FREE OF BURRS, AND CONSTANTLY SLOPING FROM THE INLET CONNECTION TO THE MAIN INVERT CHANNEL. THE SLOPING CHANNEL SHOWN IN THIS DETAIL IS THE CENTER OF THE INVERT CHANNEL.
3. PROVIDE A WATERTIGHT SEAL AT THE PIPE CONNECTION BY CORING THE MANHOLE AND INSTALLING A FLEXIBLE RUBBER BOOT.

SERVICE LATERAL INSTALLATION TO MANHOLE

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
	07/06/18			Detail No. E-13

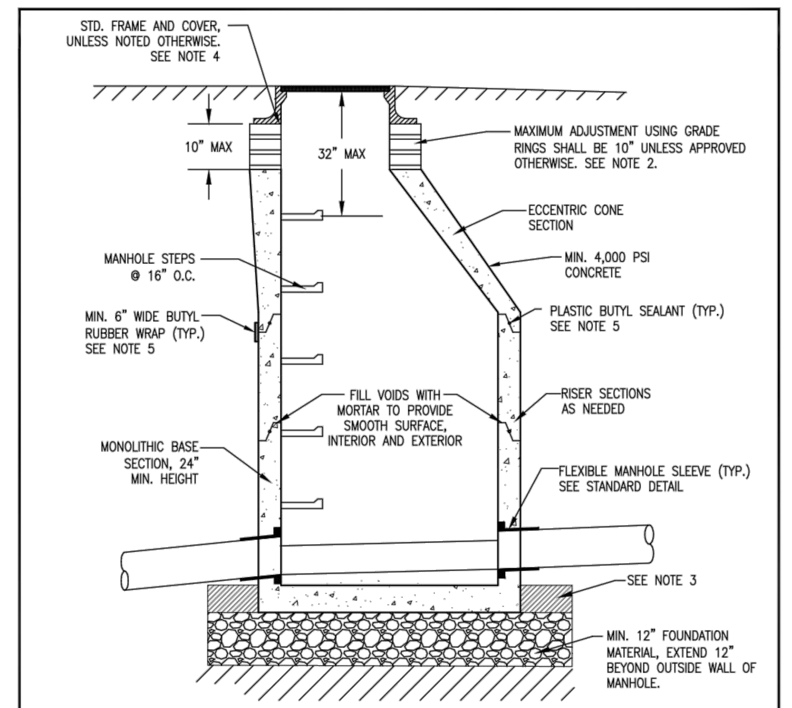


NOTES:

1. THIS DETAIL APPLIES WHENEVER A NEW SERVICE LATERAL OR SEWER MAIN CONNECTS TO AN EXISTING METROCONNECTS MANHOLE.
2. NEW SERVICE LATERALS SHALL TERMINATE IN MANHOLE A MAX OF 2".
3. FLEXIBLE MANHOLE SLEEVES SHALL CONFORM TO ASTM C–923. SLEEVES BY PRESS–SEAL GASKET CORPORATION, EPCO INC, OR NPC INC. OR EQUIVALENT ARE ACCEPTABLE. MAXIMUM DEFLECTION FOR SLEEVE IS 7° (12%). SLOPES GREATER THAN 12% MUST HAVE SLEEVES DESIGNED FOR HIGHER DEFLECTION.

FLEXIBLE MANHOLE SLEEVE

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
	07/06/18			Detail No. E-15



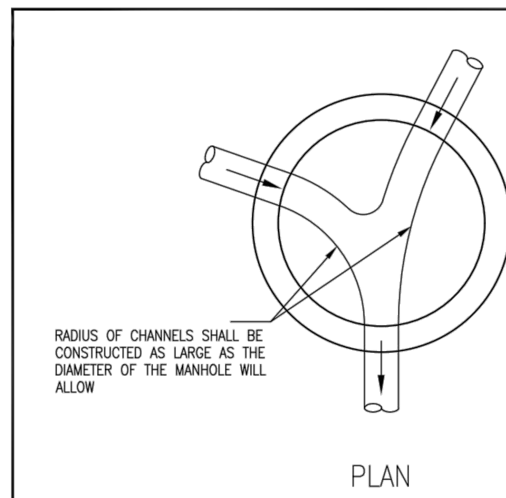
SECTION

NOTES:

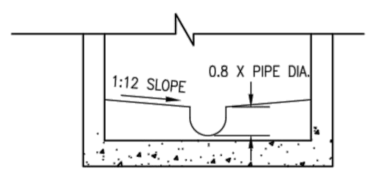
1. MINIMUM INSIDE DIAMETER SHALL BE 4'. MANHOLES 16' IN DEPTH AND GREATER SHALL HAVE A MINIMUM INSIDE DIAMETER OF 5'.
2. MANHOLE SHALL BE ORDERED WITH MINIMUM GRADE ADJUSTMENT. ORDER BASE, RISER, AND CONE HEIGHTS TO STACK OUT MANHOLE AS CLOSE AS POSSIBLE TO GRADE. MAXIMUM ADJUSTMENT SHALL BE 32 INCHES FROM TOP OF RIM TO TOP STEP UNLESS APPROVED OTHERWISE.
3. USE 6" EXTENDED BASE SECTION WHEN MANHOLE EQUALS OR EXCEEDS 12' IN DEPTH.
4. SEE DETAIL FOR RIM ELEVATION IN LAWN AREAS AND IN OUTFALL AREAS.
5. PLASTIC BUTYL SEALANT AND EXTERNAL WRAP TO BE USED AT ALL SECTION JOINTS

STANDARD PRECAST MANHOLE

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
	07/06/18			Detail No. E-19.1



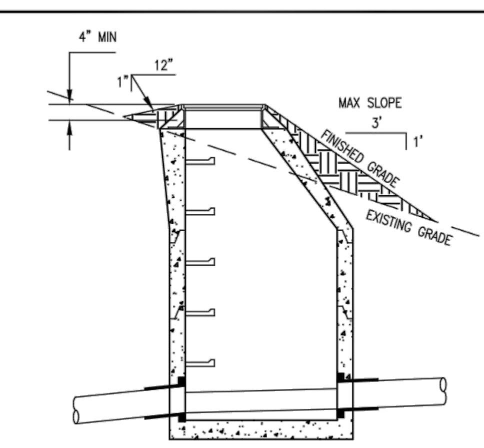
PLAN



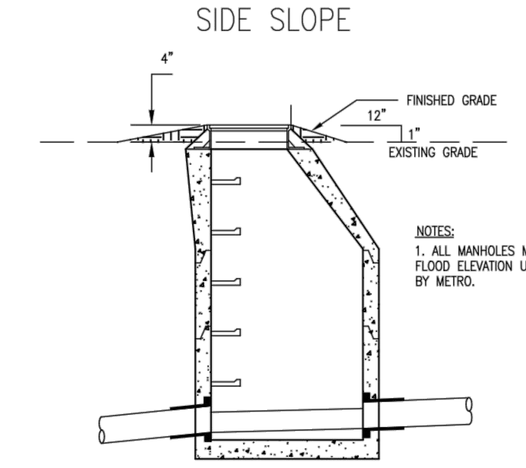
SECTION – INVERT

PRECAST MANHOLE – SHEET 2 OF 2

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
				Detail No. E-19.2



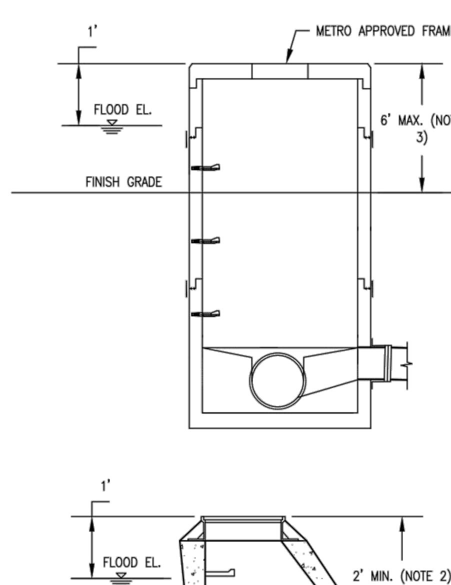
SIDE SLOPE



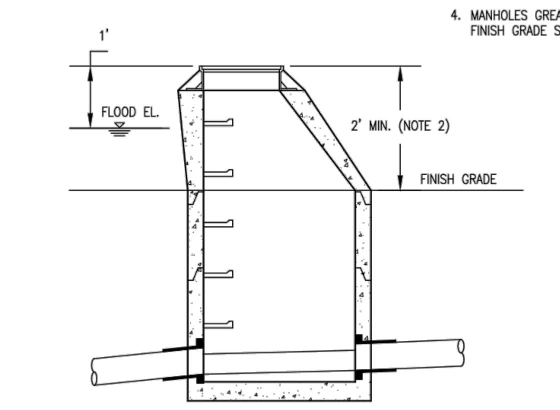
NOTES:
1. ALL MANHOLES MUST BE 1' ABOVE FLOOD ELEVATION UNLESS APPROVED BY METRO.

MANHOLE RIM ELEVATION, LAWN AREAS

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
				Detail No. E-23

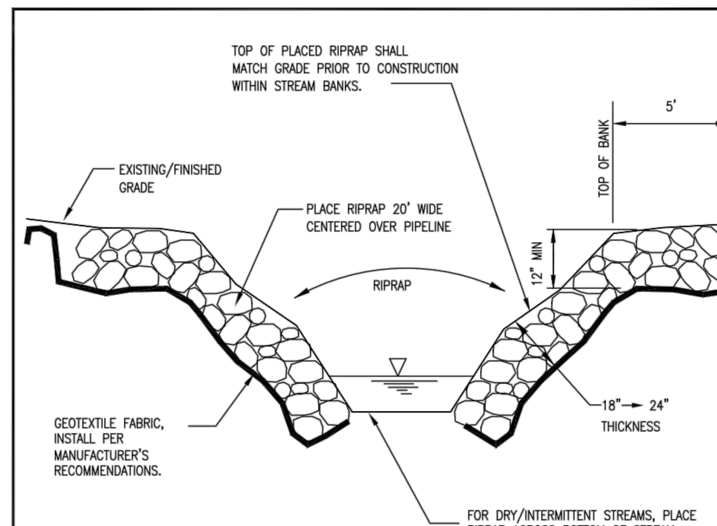


NOTES:
1. MANHOLE RIM ELEVATION MUST BE A MINIMUM OF 1' ABOVE FLOOD ELEVATION
2. MANHOLES IN NON–LAWN AREAS MUST HAVE A MINIMUM RIM ELEVATION OF 2' ABOVE FINISH GRADE
3. MAX HEIGHT OF RIM ELEVATION SHALL BE 6' ABOVE FINISH GRADE
4. MANHOLES GREATER THAN 3' ABOVE FINISH GRADE SHALL BE FLAT TOPS



MANHOLE RIM ELEVATION IN OUTFALL AREAS (NON–LAWN)

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
				Detail No. E-24

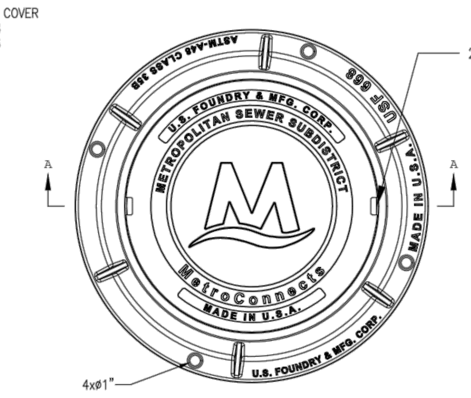


NOTES:
1. GEOTEXTILE FABRIC SHALL BE MIRAFI FILTERWEAVE FW 500 OR APPROVED EQUAL.
2. RIPRAP SHALL BE HARD QUARRY OR FIELD STONE AND SHALL BE OF SUCH QUALITY THAT IT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING. STONE FOR HAND PLACING TO A THICKNESS OF 12 INCHES SHALL BE CLASS B RIPRAP AND SHALL RANGE IN WEIGHT FROM A MINIMUM OF 5 POUNDS TO MAXIMUM OF 200 POUNDS. AT LEAST 50 PERCENT OF THE STONE PIECES SHALL WEIGH MORE THAN 37 POUNDS. AT LEAST 15% OF THE STONE SHALL WEIGH MORE THAN 75 POUNDS, EXCEPT SPALLS SHALL HAVE A MINIMUM DIMENSION OF AT LEAST 0.42 FEET.
3. HEAVY DUTY RIPRAP SHALL BE USED AND PLACED AT A THICKNESS OF 24" MINIMUM, WHERE SHOWN ON THE PLANS. HEAVY DUTY RIPRAP SHALL BE CLASS C WITH MAXIMUM SIZE OF 1.8', AVERAGE SIZE IS 1.3', MINIMUM SIZE OF 0.4'. AT LEAST 50% OF THE STONE PIECES SHALL BE LARGER THAN 1.3'.
4. THE SLOPE UPON WHICH THE RIPRAP IS TO BE PLACED SHALL BE WORKED TO PROVIDE A CONSISTENT SLOPE FROM THE TOP OF BANK TO THE BOTTOM OF THE BANK. DEPRESSIONS SHALL BE FILLED IN AND PROPERLY COMPACTED.
5. RIPRAP PLACEMENT SHALL BEGIN AT THE TOE OF THE SLOPE AND PROGRESS UPWARD. EACH PIECE SHALL BE PLACED BY HAND PERPENDICULAR TO THE SLOPE AND SHALL BE FIRMLY EMBEDDED AGAINST THE SLOPE AND ADJOINING PIECES. THE SPACES BETWEEN THE LARGER PIECES SHALL BE FILLED WITH SPALLS OF SUITABLE SIZE WHICH SHALL BE RAMMED INTO PLACE. THE FINISHED SURFACE SHALL PRESENT AN EVEN, TIGHT SURFACE TRUE TO LINE, GRADE AND SECTION.

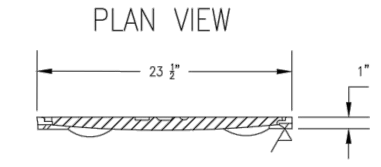
RIPRAP STREAM BANK STABILIZATION

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
				Detail No. E-26

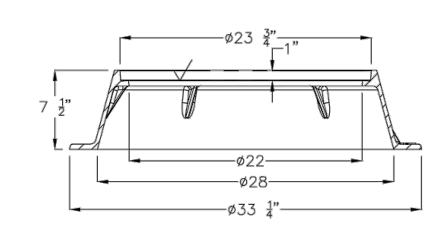
USF 668 RING & YF COVER
RING 8021558
COVER 8018766



PLAN VIEW



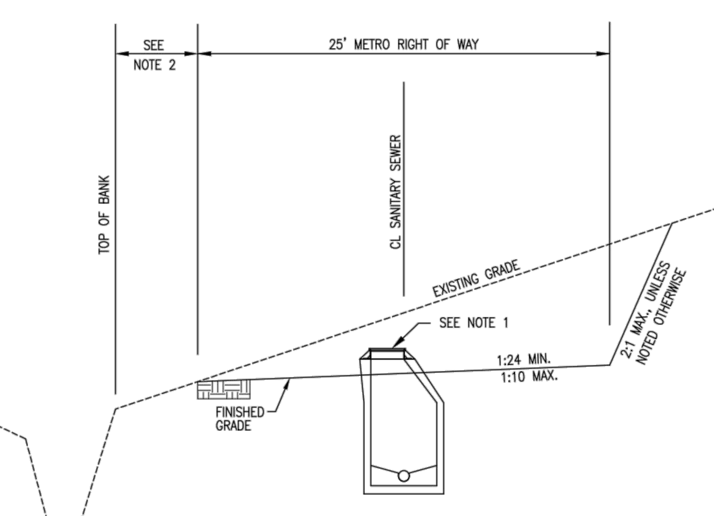
SECTION A – COVER



SECTION A – FRAME

STANDARD MANHOLE FRAME & COVER

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
	05/16/18			Detail No. E-16



NOTES:
1. RIM ELEV. SHALL BE SET IN ACCORDANCE TO MANHOLE AND RIM ELEVATION DETAILS
2. MINIMUM SEPARATION FROM TOP OF BANK SHALL BE:
   - 5' – FOR DRAINAGE SWALES AND DITCHES
   - 15' – FOR CREEKS
   - 25' – FOR RIVERS
3. NO EXCAVATION, FILLING OR STOCKPILING MATERIALS MAY TAKE PLACE WITHIN METRO RIGHT OF WAY WITHOUT CONTACTING METRO AND OBTAINING PERMISSION.
4. FENCES ARE NOT PERMITTED IN THE 25' METRO RIGHT OF WAY PARALLEL TO THE SEWER LINE. WRITTEN CONSENT IS REQUIRED WHERE A FENCE CROSSES THE METRO RIGHT OF WAY
5. MAX VERTICAL AND HORIZONTAL SLOPE WITHIN THE RIGHT OF WAY TO BE 1:10.

METROPOLITAN SEWER SUBDISTRICT STANDARD RIGHT OF WAY

MetroConnects Metropolitan Sewer Subdistrict 120 Augusta Arbor Way Greenville, South Carolina	Rev. Date	Rev. Date	Rev. Date	Scale N.T.S.
				Detail No. E-27

SPECIAL PROVISIONS FOR SANITARY SEWER CROSSINGS AT PIEDMONT NATURAL GAS LINE:

A. PROJECT OWNER WILL CONTACT THE ONECALL LOCATING SERVICE TO HAVE THE PIPELINE(S) LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN PIEDMONT'S EASEMENT.
B. PIPELINE(S) ARE TO BE CLEARLY MARKED DURING THE CONSTRUCTION PROCESS.
C. INSTALLATIONS SHALL BE IN ACCORDANCE WITH ATTACHED PLANS.
D. PROPOSED DIP SEWER LINE SHALL MAINTAIN A MINIMUM OF 2 FEET OF SEPARATION FROM PIEDMONT'S 12 INCH TRANSMISSION GAS LINE.
E. PROJECT OWNER SHALL ATTACH (2) #6 STRANDED WIRES TO THE DUCTILE IRON PIPE WITHIN PIEDMONT'S EASEMENT.
F. PROJECT OWNER SHALL PROVIDE AND INSTALL GREEN COLOR CODED 'POLYWRAP' AFTER WIRES ARE ATTACHED FOR THE ENTIRE LENGTH OF THE CROSSING OF PIEDMONT'S EASEMENT.
G. WITH A PIEDMONT REPRESENTATIVE ON SITE, PROJECT OWNER SHALL EXCAVATE PIEDMONT'S 12" TRANSMISSION LINE SO THAT PIEDMONT CAN ATTACH (2) #6 STRANDED WIRES TO PIEDMONT'S TRANSMISSION PIPELINE.
H. ALL WIRES WILL THEN BE BROUGHT TO AN ABOVEGROUND 'FINK TEST STATION' TO BE SUPPLIED BY PIEDMONT.

LandDesign.
223 NORTH GRAHAM STREET
CHARLOTTE, NC 28202
704.333.0325
WWW.LANDDESIGN.COM
SC ENG. FIRM LICENSE # C01396

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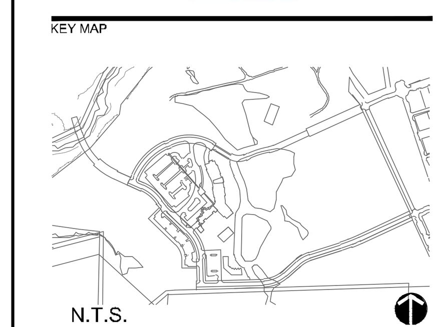
C+TC Design Studio, Inc.
3300 NE Expy, Bldg. 6, Atlanta, GA 30341
770-676-7600 | fax 770-676-9600
ctcdesignstudio.com

HARTNESS
GREENVILLE

KEY MAP



SEAL

NOT FOR CONSTRUCTION

PROJECT

HOTEL HARTNESS

CONSTRUCTION DOCUMENTS

GREENVILLE, SC

HARTNESS DEVELOPMENT, INC.

LANDDESIGN PROJ.#
1017303

REVISION / ISSUANCE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION SET	01.31.20

DESIGNED BY: LDI
DRAWN BY: LDI
CHECKED BY: LDI

SCALE
VERT: N/A
HORZ: 1"=30'
0 15' 30' 60'

NORTH

SHEET TITLE
UTILITY DETAILS

SHEET NUMBER
C6-5

HOTEL HARTNESS

A PROJECT OF

HARTNESS HOTEL DEVELOPMENT, LLC

3500 SOUTH HWY 14
GREENVILLE, SOUTH CAROLINA

JANUARY 31, 2020

50% CONSTRUCTION DOCUMENT NOT FOR CONSTRUCTION

HOTEL HARTNESS

GREENVILLE COUNTY,
GREENVILLE, SOUTH CAROLINA

Client

HARTNESS HOTEL DEVELOPMENT, LLC
3500 SOUTH HWY 14
GREENVILLE, SC 29615

Landscape Architect

swa

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Suite 157
Dallas, Texas
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United States
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POOL CONSULTANT

AQUA-DESIGN POOL
7534 N. LACHOLLA BLVD
TUCSON AZ 85741
P: 520-219-8925

STRUCTURAL ENGINEER

URBAN STRUCTURE
8140 WALNUT HILL LANE SUITE 905
DALLAS TX 75231
P: 214-295-5775

Stamp

Revisions

1
2
3
4
5
6
7
8
9
10

Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Scale **North**

Drawing Title

TREE PROTECTION NOTES

Drawing Number

L1.0.0

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HOTEL HARTNESS

SHEET INDEX

SHEET NUMBER	SHEET NAME	50% CONSTRUCTION DOCUMENTS
L0.0.0	COVER SHEET	○
L0.0.1	GENERAL CONSTRUCTION NOTES	○
L0.0.2	KEY MAP & SHEET INDEX	○
L1.0.0	TREE PROTECTION NOTES	○
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LEGEND	
DRAWING NOT ISSUED	
DRAWING ISSUED FOR COORDINATION	○
DRAWING ISSUED FOR REVIEW	●
DRAWING DELETED	╳
DRAWING ISSUED FOR CONSTRUCTION	▬

GENERAL NOTES:

1. CONTRACTOR TO VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAY CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. MORE SPECIFIC UTILITY INFORMATION IS INDICATED ON THE CIVIL DRAWINGS.

2. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE DRAWINGS.

3. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES TO REMAIN.

4. EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES PRIOR TO BEGINNING EXCAVATION.

5. BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS, CURBS AND UTILITIES HAVE BEEN PROVIDED FROM THE FOLLOWING SURVEYS PROVIDED BY THE OWNER:
   SITE SURVEY DATED 05/04/2018 BY STANTEC.

6. CONTRACTOR SHALL NOTIFY LOCAL UTILITY OR CITY AUTHORITIES FOR PROVISION OF ALL LOCATIONS OF EXISTING UNDERGROUND UTILITIES. POT HOLE EXCAVATE AS NECESSARY TO CONFIRM LOCATIONS PRIOR TO ANY EXCAVATIONS.

7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL FEDERAL STATE AND LOCAL PERMITS INCLUDING BUT NOT LIMITED TO STORMWATER POLLUTION PREVENTION, TREE REMOVAL, GRADING AND UTILITY, ETC.

8. CONTRACTOR IS REQUIRED TO REPAIR OR REPLACE WITH APPROVED IN KIND MATERIALS ANY DAMAGE DONE TO BUILDINGS, STRUCTURES, UTILITIES, PAVING, PLANTING OR ANY OTHER SITE IMPROVEMENTS TO REMAIN. ANY DAMAGE BY THE CONTRACTOR DURING THE EXECUTION OF WORK OF UTILITIES OR ELEMENTS TO REMAIN IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

ABBREVIATIONS:

ABBREVIATION	EXTENSION
ADA	AMERICANS WITH DISABILITIES ACT
ADJ.	ADJACENT (LAYOUT, MEASUREMENT)
ARCH	ARCHITECT
BC	BOTTOM OF CURB
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CAD	COMPUTER-AIDED DESIGN
CIP OR C.I.P.	CAST-IN-PLACE (CONCRETE APPLICATIONS)
CIVIL	CIVIL ENGINEER
CL	CENTERLINE (LAYOUT, MEASUREMENT)
CLS	CENTER LINE OF SWALE (GRADIENT)
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
DIA	DIAMETER (LAYOUT, MEASUREMENT)
EJ	EXPANSION JOINT (CONCRETE APPLICATIONS)
EQ	EQUAL (LAYOUT, MEASUREMENT)
EXT.	EXTERIOR
F.O.B.	FACE OF BUILDING
FG OR F.G.	FINISHED GRADE (TOP OF SOIL GRADIENT)
FS OR F.S.	FINISHED SURFACE (HARD SURFACES)
GALV.	GALVANIZED
GEOTECH	GEOTECHNICAL ENGINEER
GPH	GALLONS PER HOUR (IRRIGATION)
GPM	GALLONS PER MINUTE (IRRIGATION)
HEX.	HEXAGONAL
HP	HIGHT POINT (GRADIENT)
HSS	HOLLOW STRUCTURAL SECTION
IE	INVERT ELEVATION
LA OR L.A.	LANDSCAPE ARCHITECT
LED OR L.E.D.	LIGHT-EMITTING DIODE (ELECTRICAL FIXTURE)
LOW OR L.O.W.	LIMIT OF WORK
LP	LOW POINT (GRADIENT)
MAX.	MAXIMUM
MIN.	MINIMUM
NAP OR N.A.P.	NOT A PART
OC OR O.C.	ON-CENTER (LAYOUT, MEASUREMENT)
OD OR O.D.	OUTSIDE DIAMETER (LAYOUT, MEASUREMENT)
PA OR P.A.	PLANTING AREA
PERF.	PERFORATED
POB OR P.O.B.	POINT OF BEGINNING (LAYOUT, MEASUREMENT)
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH (IRRIGATION)
PT	PRESSURE-TREATED
R	RADIUS (LAYOUT, MEASUREMENT)
REF	REFERENCE OR REFER TO
REINF.	REINFORCEMENT
SE	STRUCTURAL ENGINEER
SPECS	CONTRACT SPECIFICATIONS
S/S OR SS	STAINLESS STEEL
SWMP	STORM WATER MANAGEMENT PLAN
TBD	TO BE DETERMINED
TC	TOP OF CURB (GRADIENT ELEVATION)
TG	TOP OF GRATE (GRADIENT ELEVATION)
TS	TOP OF STEP (GRADIENT ELEVATION)
TW	TOP OF WALL (GRADIENT ELEVATION)
TYP	TYPICAL
W/	WITH

GENERAL LEGEND

SYMBOL	EXTENSION
⊕	COIN METER
═══	DRAIN COVER
E	ELECTRICAL PEDESTAL
G	GAS METER
	POWER POLE
	LIGHT POLE
M	MANHOLE
	NATURAL GAS NGR
PB	PB
	POWER POLE
SAN	SANITATION LINE
SS	SANITARY SEWER CO
S	SEWER
	SIGN
SW	STORM WATER MANHOLE
T	TELEPHONE MANHOLE
	TRAFFIC BOX
HH	TRAFFIC HH
	TRAFFIC SIGNAL
	UNKNOWN VAULT
	WATER HYDRANT
	WATER GV
	WATER PIV

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NOTE:
REFER TO CIVIL DOCUMENTS FOR PRIMARY AND SECONDARY BENCHMARKS REFERENCES AND FOR EXISTING PARTIAL TOPOGRAPHIC SURVEY REFERENCES.

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4
5
6
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10

Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Drawing Title

GENERAL CONSTRUCTION NOTES

Drawing Number

L0.0.1

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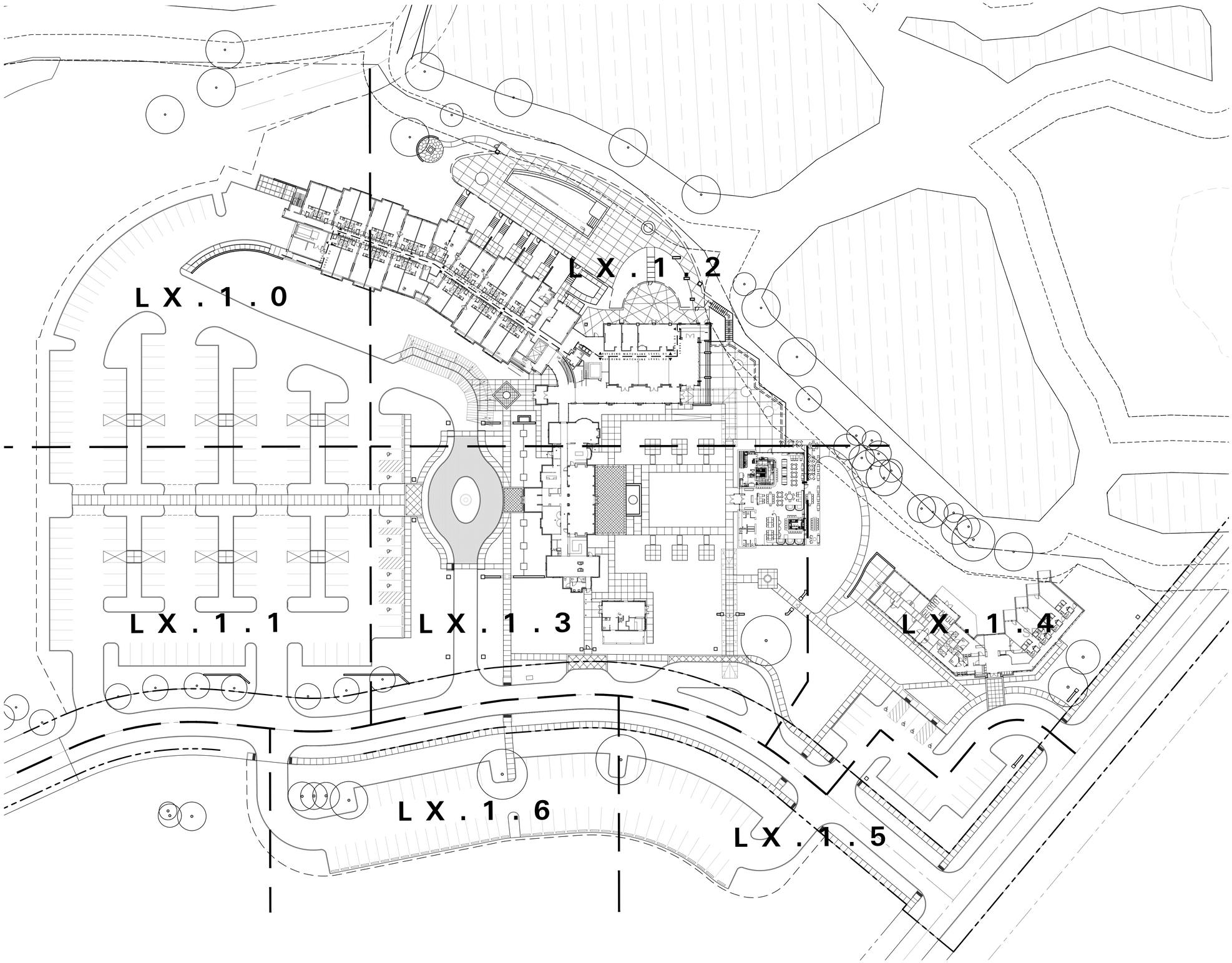
HOTEL HARTNESS

GREENVILLE COUNTY,
GREENVILLE, SOUTH CAROLINA



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Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

0 5' 10'
1" = 10'

Drawing Title

KEY MAP & SHEET INDEX

Drawing Number

L0.0.2

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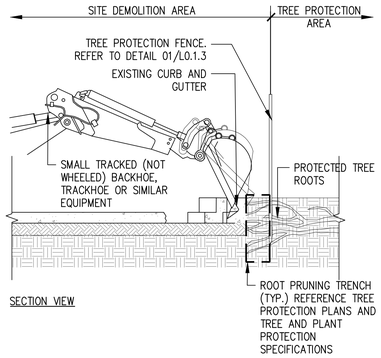
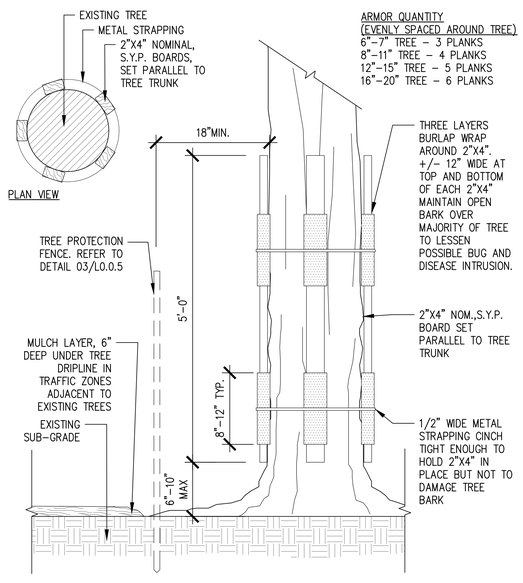
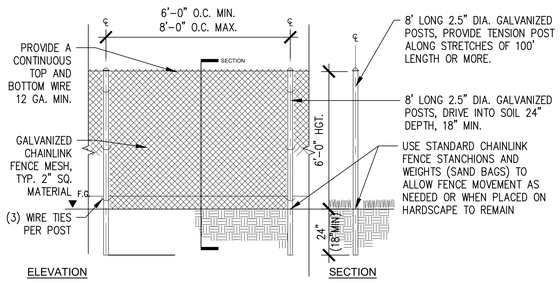


03 CURB DEMOLITION @ EXISTING TREE ROOTS
1" = 1'-0"



02 TREE PROTECTION
1" = 1'-0"



01 TREE PROTECTION FENCE AND SECTION
1/2" = 1'-0"

GENERAL TREE PROTECTION NOTES:

1. ALL GUIDELINES STATED BELOW SHALL BE STRICTLY ADHERED TO AND MONITORED BY CONTRACTOR AND ALL ENTITIES ASSOCIATED WITH THE OWNER OR DESIGN CONSULTANTS.
2. ANY DAMAGE, REMOVAL OR DESTRUCTION OF ANY TREE NOT SUBJECT TO REMOVAL BY THESE DOCUMENTS OR OTHER WRITTEN PERMISSIONS SHALL BE SUBJECT TO FINES OR CONTRACTUAL PENALTIES ASSESSED TO THE CONTRACTOR OR OTHER ENTITIES RESPONSIBLE FOR DAMAGE OR REMOVAL. FINES OR PENALTIES SHALL BE THE VALUE OF TREE, MINIMUM, AS PROVIDED BY INDEPENDENT ARBORIST AS SELECTED BY THE OWNER/LANDSCAPE ARCHITECT.
3. PRIOR TO TREE CLEARING, BRUSH REMOVAL, MASS GRADING OR ANY OTHER TYPE OF CONSTRUCTION OPERATION, CONTRACTOR SHALL CLEARLY TAG OR MARK ALL TREES TO BE REMOVED OR RELOCATED (PER SPECIFICATIONS) AND OBTAIN THE LANDSCAPE ARCHITECT'S FINAL APPROVAL PRIOR TO SUCH TREE REMOVAL.
4. CONTRACTOR SHALL PROVIDE AND SET TREE PROTECTION FENCING AROUND EACH TREE OR GROUP OF TREES TO BE RETAINED AS DEPICTED IN THESE DOCUMENTS TO PREVENT THE REMOVAL OF PROTECTED TREES, STORAGE OF CONSTRUCTION MATERIALS, PLACEMENT OF DEBRIS OR FILL, CONSTRUCTION OPERATIONS AND/OR EQUIPMENT USAGE/STORAGE WITHIN THE DRIP LINE.
5. REFER TO TREE PROTECTION DOCUMENTS FOR FENCING LAYOUT AND TYPE OF FENCE INCLUDING HEIGHT AND INSTALLATION REQUIREMENTS OF SAID FENCING REQUIRED.
6. DURING CONSTRUCTION OPERATIONS, CONTRACTOR SHALL PROHIBIT CLEANING, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS UNDER THE CANOPY OF TREES AND PREVENT RUN-OFF FROM SUCH NOTED ITEMS INTO AREAS PROTECTED. CONTRACTOR SHALL NOT ALLOW THE DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR, ETC., OR ALLOW RUN-OFF FROM ANY SUCH ITEMS IN TO THE TREE CANOPY AREA.
7. NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A TREE PROTECTIVE NATURE SHALL BE ATTACHED TO ANY TREE.
8. NO FILL OR STORAGE OF FILL MATERIALS OR ANY EXCAVATION OPERATIONS SHALL OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED UNLESS THERE IS A SPECIFIC APPROVED PLAN FOR USE OF TREE WELLS OR RETAINING WALLS. CHANGES OF GRADE (FOUR INCHES OR GREATER) WILL REQUIRE ADDITIONAL MEASURES TO MAINTAIN PROPER OXYGEN AND WATER EXCHANGE OF THE ROOTS.
9. ANY ADDITIONAL TREES REQUIRED FOR REMOVAL FOR CONSTRUCTION PROCESSES, UTILITY INSTALLATIONS, ETC. THAT ARE NOT NOTED OR REFERENCED ON PLANS SHALL BE NOTED ON PLAN (8.5 X 11) BY CONTRACTOR WITH REASON FOR REMOVAL AND SUBMITTED TO LANDSCAPE ARCHITECT FOR REVIEW AND PROCESSING WITH THE OWNER. UPON APPROVAL OF SUBJECT TREE'S REMOVAL AND FORWARDED BY LANDSCAPE ARCHITECT AND ONCE A TREE REMOVAL PERMITS HAS BEEN OBTAINED FROM GREENVILLE COUNTY, SUCH TREE CAN BE REMOVED IN MANNER DEEMED APPROPRIATE. CONTRACTOR SHALL ALLOW MIN. TEN (10) WORKING DAYS FOR SUCH NOTED APPROVAL.
10. ANY TREES WHICH ARE IMPACTED BY EXCAVATION OR TRENCHING, NEED ROOTS 1" AND LARGER TO BE CLEAN CUT (NO TEARS) AS QUICKLY AS POSSIBLE AND BEFORE BEING COVERED WITH SOIL. REFER TO SPECIFICATIONS.
11. REFER TO L0-1B FOR SITE TREE SUMMARY AND REMOVAL SCHEDULE.
12. ALL TREES UNDER 8" CALIPER NOT ON SURVEY SHALL BE PROTECTED UNLESS NOTED TO BE REMOVED.
13. ALL FENCE LOCATIONS ARE DIAGRAMMATIC ONLY. LOCATIONS SHALL BE STAKED IN FIELD BY CONTRACTOR REFERENCING FENCE LAYOUT AND ALL PROPOSED SCOPES OF WORK TO OCCUR. STAKING SHALL THEN BE APPROVED BY LANDSCAPE ARCHITECT, REVISIONS (IF ANY) MADE AND FENCE INSTALLED PRIOR TO ANY DEMOLITION OF TREES OR OTHER SCOPE OF WORK OCCURS.
14. PLACE TREE PROTECTION FENCING TO ESTABLISH A ROOT PROTECTION ZONE EQUAL TO A SIX-FOOT RADIUS AROUND THE TREE OR A ONE-FOOT RADIUS FROM THE TRUNK OF THE TREE PER EACH INCH OF DIAMETER AT BREAST HEIGHT (DBH), WHICHEVER IS GREATER.
15. REFER TO GREENVILLE COUNTY DEVELOPMENT CODE ORDINANCE NO.4173 FOR COMPLETE TREE PROTECTION REQUIREMENTS.
16. NO OVERCUT AND MACHINERY TRESPASSING IN ROOT ZONE.
17. AIR SPADE OR HAND EXCAVATE ONLY IN THE TREE ROOT ZONE.
19. REFER TO PLANS FOR PROPOSED LAYOUT OF TREE PROTECTION FENCE AND TREE ARMORING REQUIREMENTS.

EXISTING TREE MAINTENANCE NOTES:

1. TREE MAINTENANCE SHALL OCCUR AS NOTED FOR ALL EXISTING TREES AS REQUIRED PER SPECIFICATIONS. SUCH OPERATIONS MAY INCLUDE TRIMMING, PRUNING, FERTILIZING, WATERING, ROOT PRUNING AND/OR FOLIAGE WASHING AS REQUIRED BY LANDSCAPE ARCHITECT OR ARBORIST DESIGNATED BY LANDSCAPE ARCHITECT OR OWNER.
2. TREE MAINTENANCE OPERATIONS SHALL BE DEEMED HIGH PRIORITY AND SHALL OCCUR WHEN SUCH AFOREMENTIONED OPERATIONS ARE NOTED TO OCCUR AND SHALL OCCUR AS DIRECTED BY LANDSCAPE ARCHITECT.
3. IF STORM DAMAGE OCCURS DURING COURSE OF CONTRACT, IMMEDIATE PROPER PRUNING AND MAINTENANCE OF DAMAGED AREAS SHALL OCCUR UNDER DIRECTION OF LANDSCAPE ARCHITECT OR DESIGNATED ARBORIST. ALL DEBRIS SHALL BE REMOVED OF PROPERLY. COSTS ASSOCIATED WITH THESE OPERATIONS SHALL BE PROVIDED FOR APPROVAL OF OWNER PRIOR TO WORK OCCURRING.

SITE TREE SCHEDULE NOTES:

1. TREE NUMBERS NOTED IN THE SCHEDULES HAVE BEEN ASSIGNED BY SWA AS NO TREE NUMBERS WERE PROVIDED ON THE SURVEY OR APPEARED ON THE ACTUAL TREES. SOME TREES WERE OBSERVED IN FIELD WITH NUMBERS FROM A PREVIOUS SURVEY AND THEY WERE DISREGARDED FOR THIS USE. SWA DID NOT APPLY THESE NUMBER TAGS TO THE ACTUAL TREES.

GREENVILLE COUNTY TREE PROTECTION PLAN (TPP) NOTES:

NOTE: ALL REFERENCES BELOW REFER TO AND ABIDE BY THE GREENVILLE COUNTY DEVELOPMENT CODE ORDINANCE NO. 4173

1. IT IS THE POLICY OF GREENVILLE COUNTY TO PROTECT AND PRESERVE ESTABLISHED HEALTHY TREES WHERE POSSIBLE AND PRACTICAL; TO REQUIRE THE PLANTING OF TREES LOST DUE TO DEVELOPMENT; TO REQUIRE REASONABLE MAINTENANCE AFTER PLANTING; AND TO PROVIDE PUBLIC EDUCATION ON THE BENEFITS OF TREES, TREE CONSERVATION, AND TREE CARE.
2. TREES THAT ARE IN FLOOD PLAINS, UNDEVELOPABLE AREAS ON THE PROPERTY AND REQUIRED STREAM BUFFERS DO NOT HAVE TO BE LOCATED OR IDENTIFIED ON THE TPP UNLESS THEY ARE BEING USED TO MEET THE MINIMUM "TREE DENSITY UNITS" FOR THE ACREAGE REQUIREMENTS IN SECTIONS 8 AND 9 OF THIS ORDINANCE.
3. IF IT IS DETERMINED THAT SPECIMEN OR HERITAGE TREES ARE ON THE SITE AND ARE IN AREAS THAT ARE TO BE PART OF THE LAND DEVELOPMENT ACTIVITY, THE DEVELOPER MAY BE ASKED TO CONSIDER MINOR REDESIGN OF THE DEVELOPMENT PLAN FOR THE PURPOSE OF SAVING THE HERITAGE OR SPECIMEN TREE(S). UPON APPROVAL BY THE COUNTY, A SAVED HERITAGE OR SPECIMEN TREE WILL RECEIVE 2.0 TIMES THE CREDITS PUBLISHED IN SECTION 11 FOR THE DBH OF THE TREE BEING SAVED.
4. EXISTING TREES IN UNGRADED AREAS, EXCLUDING STREAM BUFFERS, SHALL COUNT IN PROJECT TYPES TOWARD THE DENSITY UNIT REQUIREMENTS, PROVIDED THEY MEET THE TREE PROTECTION AREA REQUIREMENTS.
5. ALL TREES TO BE SAVED AND CREDIT RECEIVED, MUST BE IDENTIFIED ON A TPP AND MUST PROVIDE A ROOT PROTECTION ZONE EQUAL TO A SIX-FOOT RADIUS AROUND THE TREE OR A ONE-FOOT RADIUS FROM THE TRUNK OF THE TREE PER EACH INCH OF DIAMETER AT BREAST HEIGHT (DBH), WHICHEVER IS GREATER.
6. ALL TREES TO RECEIVE CREDIT MUST BE HEALTHY AND IN GOOD CONDITION AND ARE SUBJECT TO REVIEW BY THE COUNTY. THE COUNTY MAY APPROVE AN EXCEPTION OF UP TO 35% OF THE ROOT PROTECTION ZONE REQUIREMENT, BUT IF THE EXCEPTION IS GRANTED, THE DENSITY UNIT CREDIT FOR THE EXISTING TREE WILL BE REDUCED BY 50%. ALL CONSTRUCTION PRACTICES FOR PROTECTING EXISTING TREES (INCLUDING PROTECTIVE BARRIERS AND IDENTIFICATION OF TREE PROTECTION AREAS) SHALL BE CONSISTENT WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE AND AMERICAN NATIONAL STANDARDS INSTITUTE STANDARDS WHENEVER POSSIBLE.
7. IN ACCORDANCE WITH THE PROVISIONS OF SECTION 4, UNLESS NO TREE CREDITS ARE GOING TO BE SOUGHT, PRIOR TO ANY GRADING OR CLEARING ACTIVITIES ON A LOT OR PARCEL FOR DEVELOPMENT AND APPLYING FOR A GRADING OR BUILDING PERMIT, THE DEVELOPER SHALL HAVE CONDUCTED A TREE SURVEY IDENTIFYING THE LOCATION AND SIZE OF TREES TO BE USED FOR TREE CREDITS AND THEY SHALL BE SHOWN ON A TPP SURVEY.
8. THE DESIGN OF ANY LAND DEVELOPMENT PROJECT OR SUBDIVISION SHALL TAKE INTO CONSIDERATION THE LOCATION OF ALL HERITAGE TREES, SPECIMEN TREES, AND STANDS OF TREES. THE COUNTY, AT THE REQUEST OF THE DEVELOPER OR LANDOWNER, MAY FIELD SURVEY THE SITE AND IDENTIFY OPPORTUNITIES AND INCENTIVES TO SAVE SAID TREES.
9. THE COUNTY HAS THE AUTHORITY TO POSTPONE REQUIRED TREE PLANTING UNTIL THE APPROPRIATE PLANTING SEASON.
10. THE BUFFER REQUIREMENTS OF THIS ORDINANCE SHALL BE IN ADDITION TO THE LANDSCAPING AND SCREENING REQUIREMENTS IN ORDINANCE NO. 4048 OF THE GREENVILLE COUNTY ZONING ORDINANCE. IN THE EVENT OF CONFLICTS BETWEEN THE TWO ORDINANCES, THE MOST RESTRICTIVE SHALL APPLY.
11. IN PERIMETER BUFFERS AND SETBACKS, CANOPY TREES CANNOT BE PLACED CLOSER THAN 15 FEET ON CENTER EXCEPT FOR EVERGREEN TREES, WHICH MAY BE PLACED 10 FEET ON CENTER.
12. A TREE WARRANTY MUST BE PROVIDED BY THE CONTRACTOR, WHO MUST ADEQUATELY MAINTAIN TREES FOR THE FIRST YEAR AFTER PLANTING. AFTER ONE YEAR, TREE MAINTENANCE IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
13. IN THE ZONED AREAS OF THE COUNTY, ALL PUBLIC RECREATION, INDUSTRIAL, COMMERCIAL, RETAIL, AND INSTITUTIONAL PROJECTS SHALL COMPLY WITH THE PARKING LOT LANDSCAPING STANDARDS IN SECTION 12.4 OF THE GREENVILLE COUNTY ZONING ORDINANCE, AS AMENDED.
14. MINIMUM PRESERVED OR PLANTED TREES SHALL BE EQUAL TO 15 TREE DENSITY UNITS PER DISTURBED ACRE AS DESCRIBED IN THE REQUIRED GRADING PERMIT.
15. IN THE ZONED AREAS OF THE COUNTY, CURRENT ZONING REQUIREMENTS FOR BUFFERS, SCREENS, AND/OR FENCES ALONG THE COMMON LINE WITH RESIDENTIAL USES SHALL REMAIN.

GREENVILLE COUNTY ZONING ORDINANCE NOTES:

NOTE: ALL REFERENCES BELOW REFER TO THE GREENVILLE COUNTY ZONING ORDINANCE SECTION 12.4

1. OFF-STREET PARKING LOT LANDSCAPING SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN SECTION 12.4, PARKING LOT LANDSCAPING.
2. ALL NEW OFF-STREET PARKING LOTS WITH TEN (10) OR MORE SPACES LOCATED ADJACENT TO EXISTING PUBLICRIGHT(S)-OF-WAY SHALL ESTABLISH ROADSIDE BUFFERS. ROADSIDE BUFFERS SHALL BE LOCATED OUTSIDE OF THE RIGHTS-OF-WAY OF EXISTING ROADS AND SHALL BE LOCATED OUTSIDE THE FUTURE RIGHTS-OF-WAY OF ALL GPATS AND SIB PROJECTS IDENTIFIED IN THE TRANSPORTATION CORRIDOR PRESERVATION ORDINANCE OF GREENVILLE COUNTY.
3. A. THE MINIMUM ROADSIDE BUFFER WIDTH SHALL HAVE AN AVERAGE PLANTING WIDTH OF EIGHT (8) FEET WITH THE MINIMUM WIDTH FOR ANY BUFFER YARD BEING FIVE (5) FEET. BUFFERS SHALL CONTAIN THE FOLLOWING PLANT MATERIALS: AN AVERAGE OF ONE (1) TREE FOR EVERY SIXTY (60) FEET OF LINEAR ROAD FRONTAGE. TREES SHALL BE SPACED SO THAT THERE IS A MINIMUM OF ONE (1) TREE FOR EVERY TWO HUNDRED (200) LINEAR FEET OF ROAD FRONTAGE. SHRUBS SPACED TO PROVIDE A CONTINUOUS EVERGREEN SCREEN WITHIN THREE (3) YEARS OF INSTALLATION.
4. WITHIN THE BUFFER YARD, FENCES, WALLS, EARTHEN BERMS OR ANY COMBINATION THEREOF MAY BE USED TO MEET THE REQUIREMENTS OF THIS SECTION SO LONG AS THEY ARE A MINIMUM OF THIRTY (30) INCHES IN HEIGHT AND PROVIDE A CONTINUOUS OPAQUE VISUAL SCREEN. BERMS SHALL HAVE A SIDE SLOPE NO GREATER THAN 2:1.
5. WHERE EXISTING OVERHEAD POWER UTILITY LINES PRECLUDE SUFFICIENT SPACE FOR A SHADE TREE TO GROW THEN TWO (2) SMALL TREES SHALL BE SUBSTITUTED FOR EACH REQUIRED SHADE TREE.

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Revisions

1
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Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Drawing Title

TREE PROTECTION NOTES

Drawing Number

L1.0.0

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EXISTING TREE LIST:

TREE #	SPECIES	CALIPER INCHES	REMOVE/ KEEP/ TRANSPLANT	DENSITY UNIT CREDITS	COMMENTS/NOTES
#101	QUE	24	TRANSPLANT	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#102	QUE	24	REMOVE	0	-
#103	GUM	13	REMOVE	0	-
#104	ACE	24	REMOVE	0	-
#105	ACE	14	TRANSPLANT	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#106	ACE	24	REMOVE	0	-
#107	QUE	42	KEEP	27.0	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#108	QUE	42	REMOVE	0	-
#109	POP	15	REMOVE	0	-
#110	OAK	30	KEEP	14.7	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#111	POP	15	REMOVE	0	-
#112	POP	15	REMOVE	0	-
#113	QUE	28	KEEP	12.9	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#114	TREE	14	REMOVE	0	-
#115	POP	15	REMOVE	0	-
#116	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#117	POP	15	REMOVE	0	-
#118	QUE	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#119	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#120	QUE	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#121	QUE	18	KEEP	3.8	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#122	POP	15	REMOVE	0	-
#123	POP	15	TRANSPLANT	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#124	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#125	POP	15	REMOVE	0	-
#126			REMOVE	0	-
#127			REMOVE	0	-
#128			REMOVE	0	-
#129	POP	15	REMOVE	0	-
#130	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#131	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#132	POP	15	REMOVE	0	-
#133	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#134	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#135	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#136	POP	15	REMOVE	0	-
#137	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#138	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#139	POP	15	REMOVE	0	-
#140	POP	15	ROMOVE	0	-
#141	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#142	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#143	POP	15	REMOVE	0	-
#144	POP	15	REMOVE	0	-
#145	POP	15	REMOVE	0	-
#146	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#147	POP	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#148	POP	15	REMOVE	0	-
#149	MAG	24	REMOVE	0	-
#150	POP	15	REMOVE	0	-

TREE #	SPECIES	CALIPER INCHES	REMOVE/ KEEP/ TRANSPLANT		COMMENTS/NOTES
#151	POP	15	REMOVE	0	-
#152	POP	15	REMOVE	0	-
#153	ACE	15	REMOVE	0	-
#154	MAG	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#155	ACE	14	KEEP	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#156	HIML	15	REMOVE	0	-
#157	MAG	24	REMOVE	0	-
#158	QUE	24	REMOVE	0	-
#159	QUE	14	REMOVE	0	-
#160	PIN	14	REMOVE	0	-
#161	QUE	18	REMOVE	0	-
#162	QUE	24	REMOVE	0	-
#163	QUE	30	REMOVE	0	-
#164	QUE	14	REMOVE	0	-
#165	GUM	18	REMOVE	0	-
#166	PIN	14	REMOVE	0	-
#167	PIN	10	REMOVE	0	-
#168	GUM	14	REMOVE	0	-
#169	GUM	18	REMOVE	0	-
#170	QUE	10	REMOVE	0	-
#171	QUE	28	REMOVE	0	-
#172	QUE	30	REMOVE	0	-
#173	PIN	14	REMOVE	0	-
#174	PIN	24	REMOVE	0	-
#175	GUM	14	REMOVE	0	-
#176	GUM	14	REMOVE	0	-
#177	PIN	18	REMOVE	0	-
#178	QUE GEM	30	REMOVE	0	-
#179	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#180	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#181	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#182	SG	10	KEEP	2.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#183	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#184	ACE	14	TRANSPLANT	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#185	SG	10	KEEP	2.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#186	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#187	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#188	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#189	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#190	ACE	10	KEEP	2.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#191	ACE	14	TRANSPLANT	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#192	CED	14	KEEP	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS

TREE #	SPECIES	CALIPER INCHES	REMOVE/ KEEP/ TRANSPLANT	DENSITY UNIT CREDITS	COMMENTS/NOTES
#193	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#194	PRU AVI	14	KEEP	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#195	PRU AVI	18	KEEP	3.8	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#196	QUE	14	KEEP	3.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#197	QUE	26	KEEP	11.1	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#198	QUE	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#199	GLE TRI	10	KEEP	2.4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#200	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#201	CYP	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#202	CYP	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#203	CYP	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#204	SPRUCE	12	REMOVE	0	-
#205	SPRUCE	12	REMOVE	0	-
#206	MAG	24	REMOVE	0	-
#207	QUE	24	REMOVE	0	-
#208	QUE	30	KEEP	14.7	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#209	QUE	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#210	SYC	26	REMOVE	0	-
#211	SYC	24	REMOVE	0	-
#212	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#213	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#214	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#215	MAP	18	KEEP	3.8	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#216	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#217	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#218	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#219	POP	16	KEEP	3.6	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#220	GUM	24	KEEP	9.3	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#221	MUL	40	KEEP	27	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#222	MAP	18	KEEP	3.8	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#223	MAG	30	KEEP	14.7	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#224	PEC	20	KEEP	4	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#225			REMOVE	0	-
#226			REMOVE	0	-
#227			REMOVE	0	-
#228			REMOVE	0	-
#229			REMOVE	0	-
#230	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#231	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#232	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#233	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#234	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#235	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#236	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#237	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#238	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#239	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#240	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#241	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#242	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#243	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS
#244	QUE	15	KEEP	3.5	TREE TO BE PROTECTED, REFER TO SPECIFICATIONS

SITE TREE SUMMARY

EXISTING TOTAL SITE TREES	PROPOSED TOTAL SITE TREE REMOVAL	PROPOSED TOTAL PRESERVED TREES	TOTAL PROJECT AREA (DISTURBED ACRES)	TOTAL DENSITY CREDITS REQUIRED	DENSITY CREDIT PROVIDED
144	64	80	14.2	213	492.7

TREE PROTECTION LEGEND:

- EXISTING TREE TO REMAIN. REFER TO SHEET L1.1.1 FOR TREE SIZE AND LOCATION. PROTECTION NOTES LOCATED ON SHEET L1.0.0
- EXISTING TREE TO BE TRANSPLANTED. REFER TO SHEET L1.1.1 FOR TREE SIZE AND LOCATION. PROTECTION NOTES LOCATED ON SHEET L1.0.0
- EXISTING TREE TO BE REMOVED. REFER TO SHEET L1.1.1 FOR TREE SIZE AND LOCATION. PROTECTION NOTES LOCATED ON SHEET L1.0.0
- (S) SPECIMEN TREE
- (H) HERITAGE OR HISTORIC TREE
- 6" TREE PROTECTION FENCE GENERAL LAYOUT (FINAL LAYOUT PER FIELD CONDITIONS AND OPERATIONS AND APPROVED BY LANDSCAPE ARCHITECT)
- (1) SHEET NOTE

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Stamp

Revisions

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10

Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Scale
0 5' 10'
1" = 10'

North

Drawing Title

TREE PROTECTION SCHEDULE

Drawing Number

L1.1.1

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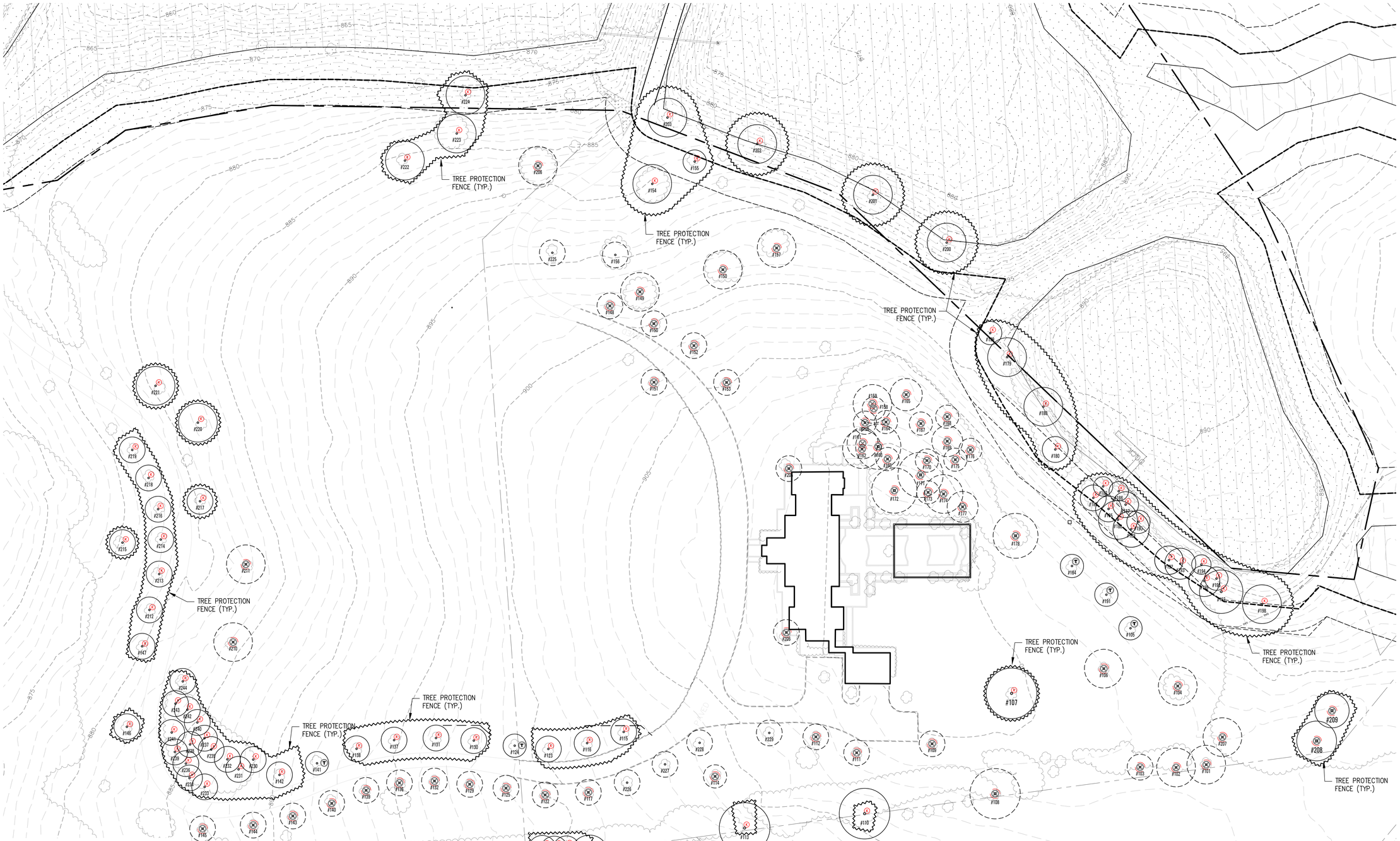
Key Plan



TREE PROTECTION LEGEND:

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- EXISTING TREE TO BE TRANSPLANTED. REFER TO SHEET L1.1.1 FOR TREE SIZE AND LOCATION. PROTECTION NOTES LOCATED ON SHEET L1.0.0
- EXISTING TREE TO BE REMOVED. REFER TO SHEET L1.1.1 FOR TREE SIZE AND LOCATION. PROTECTION NOTES LOCATED ON SHEET L1.0.0
- (S) SPECIMEN TREE
- (H) HERITAGE OR HISTORIC TREE
- 6" TREE PROTECTION FENCE GENERAL LAYOUT (FINAL LAYOUT PER FIELD CONDITIONS AND OPERATIONS AND APPROVED BY LANDSCAPE ARCHITECT)
- (1) SHEET NOTE

NOTE:
THE TREE FENCE LAYOUT SHOWN SHOULD ONLY BE USED FOR DEMO. ADJUST TREE FENCE ACCORDINGLY FOR CONSTRUCTION. COORDINATE FINAL LAYOUT WITH LANDSCAPE ARCHITECTS

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Scale
0 15' 30'
1" = 30'

North

Drawing Title

TREE PROTECTION PLAN

Drawing Number

L1.1.2

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HOTEL HARTNESS

GREENVILLE COUNTY,
GREENVILLE, SOUTH CAROLINA

DRAINAGE SCHEDULE (D)

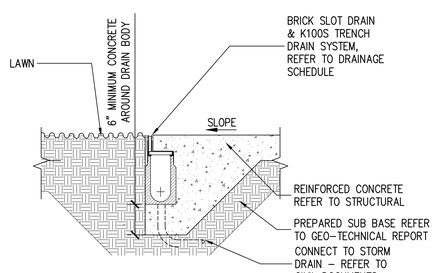
SYMBOL	KEY	DESCRIPTION	MATERIAL	SIZE	COLOR	FINISH	REMARK	IMAGE
	D1	PLANTER DRAIN	BRASS	6" DIA	BRASS	REFER TO MANUFACTURER	NDS 6" ATRIUM BRASS DRAIN GRATE WITH SATIN FINISH. PART NUMBER 90B. SUPPLIED BY NDS 1.800.726.1994	
	D2	AREA DRAIN	BRASS	9" SQ.	BRASS	REFER TO MANUFACTURER	NDS 9" SQUARE BRASS DRAIN GRATE. PART NUMBER 913B. SUPPLIED BY NDS 1.800.726.1994	
	D3	PLANTER POT AREA DRAIN	BRASS	4" DIA	BRASS	REFER TO MANUFACTURER	NDS 4" ROUND BRASS GRATE. PART 910B. SUPPLIED BY NDS 1.800.726.1994	
	D4	LAWN AREA DRAIN	CAST IRON	9" SQ.	BLACK	REFER TO MANUFACTURER	NDS 9" SQUARE DRAIN GRATE. PART NUMBER 970 SUPPLIED BY NDS 1.800.726.1994	
	D5	SUB-SURFACE PERFORATED DRAIN PIPE	HDPE OR PVC	PER CIVIL	PER CIVIL	N/A	CORRAGATED PVC DRAIN LNE WITH SLOT (4 ROWS) OPENINGS SIZE PER CIVIL	
	D6	SLOT DRAIN	STAINLESS STEEL	1/2" WIDE	STAINLESS STEEL	SS	ALO HEEL PROOF BRICK SLOT ATOP KLASSIC TRENCH DRAIN BODY K100 ACO 1-800-543-4764 NDS FILTRATION 100 TRENCH DRAIN WITH SYMMETRICAL DOUBLE SLOT TOP.	
	D7	INSPECTION TUBE LID	CAST IRON	6"	BLACK	-	ZURN CLEAN OUT AND INSPECTION LID PART Z1440 (FOR HARDSCAPE ONLY)	
	D8	LAWN SLOT DRAIN	STAINLESS STEEL	1/2" WIDE	STAINLESS STEEL	SS	ALO HEEL PROOF BRICK SLOT ATOP KLASSIC TRENCH DRAIN BODY K100 ACO 1-800-543-4764 NDS FILTRATION 100 TRENCH DRAIN WITH SYMMETRICAL DOUBLE SLOT TOP.	

GENERAL FINISH GRADING NOTES:

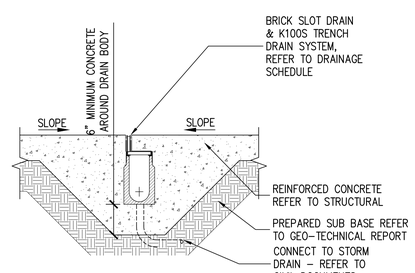
1. ANY EXISTING AND/ OR ON-SITE CONDITIONS WHICH VARY FROM THOSE SHOWN ON DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
2. ALL GRADING SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 1% GRADIENT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL AREAS. NOT LESS THAN 1% ON PAVED SURFACES. NOT LESS THAN ½% IN SUBSURFACE DRAIN PIPES. NOT LESS THAN 2% ON VEGETATED SURFACES.
3. REFER TO THE GENERAL CONDITIONS, SOILS ENGINEER REPORT, AND THE TECHNICAL SPECIFICATIONS FOR THE PLACEMENT, COMPACTION, GRADING AND TESTING OF ALL FILL MATERIAL.
4. REFER TO CIVIL DOCUMENTS FOR ALL SITE EROSION CONTROL REQUIREMENTS AND MEASURES AND ALL SWPPP INFORMATION. REFER TO CIVIL DOCUMENTS FOR ALL LANDSCAPE AND SURFACE DRAINAGE PIPING LAYOUT, CONNECTIONS AND SIZING REQUIREMENTS.
5. DEBRIS OR EXCESS SOIL CREATED BY GRADING OR EXCAVATION OPERATIONS SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF SITE.
6. CONTRACTOR SHALL TAKE CARE IN MINIMIZING THE DISTURBANCE TO EXISTING TREE TRUNKS AND ROOT SYSTEMS. ALL EXCAVATION GRADING UNDER THE DRIPLINES OF EXISTING TREES SHALL BE COMPLETED USING HAND TOOLS ONLY. NO EQUIPMENT OR VEHICLES SHALL BE ALLOWED TO WORK OR DRIVE UNDER THE DRIP LINE OF TREES UNLESS ROUTING FOLLOWS PROPOSED HARDSCAPE SCOPE. HAND EXCAVATE AND HAND COMPACT AREAS UNDER DRIPLINES OF EXISTING TREES. ALL EXCAVATION WITHIN THE DRIPLINES OF EXISTING TREES SHALL BE RADIAL FROM THE TRUNK AND COMPLETED UNDER PRIOR REVIEW OF SAID OPERATIONS WITH LANDSCAPE ARCHITECT.
7. FOR EXISTING UNDERGROUND UTILITIES REFER TO CIVIL ENGINEER'S PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD OF THE NEW AMENITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
8. EXISTING UTILITY STRUCTURES AND ACCESS LIDS ARE TO BE ADJUSTED TO MATCH PROPOSED ADJOINING FINISHED GRADES (UNLESS OTHERWISE NOTED).
9. CONTRACTOR SHALL REQUEST A REVIEW FOR INSPECTION BY LANDSCAPE ARCHITECT OF FINAL IN PLACE GRADING AND DRAINAGE A MINIMUM OF 48 HOURS IN ADVANCE OF PERFORMING ANY WORK UNLESS OTHERWISE NOTED ON THIS SHEET. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD AND PRIOR TO SURFACE CONSTRUCTION AND PLANTING.
10. REFER TO PLANTING NOTES/ DETAILS FOR GRADING REQUIREMENTS FOR AREAS ADJACENT TO PAVEMENTS.

GRADING LEGEND

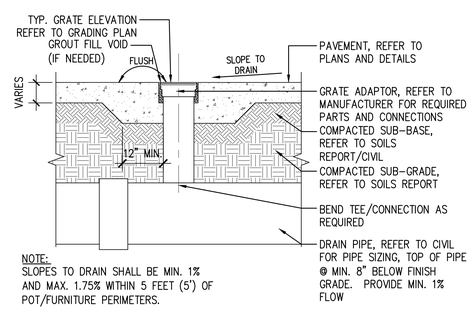
100.00	EXISTING SPOT GRADE ELEVATION
100.00	PROPOSED FINISH SURFACE ELEVATION
TC 100.00	PROPOSED TOP OF CURB ELEVATION
BC 100.00	PROPOSED BOTTOM OF CURB ELEVATION
TW 100.00	PROPOSED TOP OF WALL ELEVATION
BW 100.00	PROPOSED BOTTOM OF WALL ELEVATION
LP 100.00	PROPOSED LOW POINT ELEVATION
HP 100.00	PROPOSED HIGH POINT ELEVATION
TPC 100.00	PROPOSED TOP OF POOL COPING
(600)	EXISTING CONTOUR
600	PROPOSED CONTOUR
(2% max.)	DIRECTION & PERCENT SLOPE (NOTED MAX. OR MIN.)
(max.)	DIRECTION & SLOPE RATIO (RISE:RUN) (NOTED MAX. OR MIN.)
	PLANTER DRAIN
	SLOT DRAIN (REF. DETAILS)
	DRAIN CLEAN OUT / INSPECTION TUBE
	SUB-SURFACE PERFORATED DRAIN PIPE (REF. DETAILS)
	BRIDGE SLAB DRAIN
	AREA DRAIN IN PLANTING
P-STM	P-STM, SUB-SURFACE DRAIN PIPE (REF. CIVIL FOR SIZE)
	PVC SLEEVE, COORDINATE SIZE W/ DRAIN LINES PER CIVIL
IE	INVERT ELEVATION
FS	FINISHED SURFACE
TD	TOP OF DRAIN
	STRUCTURAL ROOF DECK DRAIN PER MEP



06 SLOT DRAIN AT LAWN
1" = 1'-0"

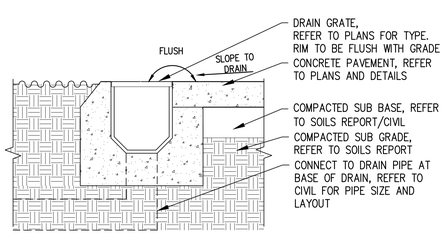


04 SLOT DRAIN AT CONCRETE
1" = 1'-0"

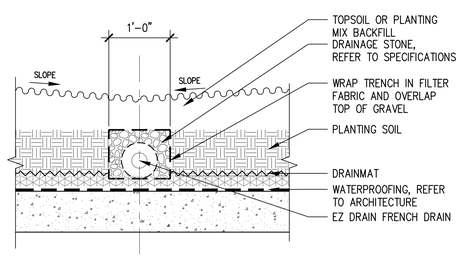


NOTE:
SLOPES TO DRAIN SHALL BE MIN. 1% AND MAX. 1.75% WITHIN 5 FEET (5') OF POT/FURNITURE PERIMETERS.

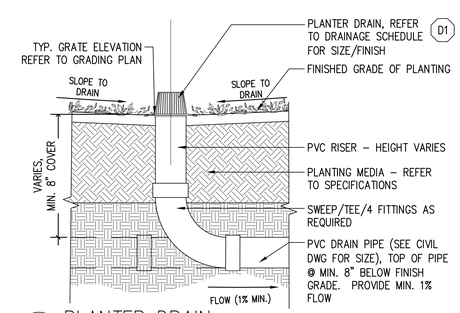
02 HARDSCAPE DRAIN
1" = 1'-0"



05 TRENCH DRAIN
1" = 1'-0"



03 SUBSURFACE DRAIN WITH GRAVEL IN LAWN
1" = 1'-0"



01 PLANTER DRAIN
1" = 1'-0"

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DRAINAGE SCHEDULE & DETAILS

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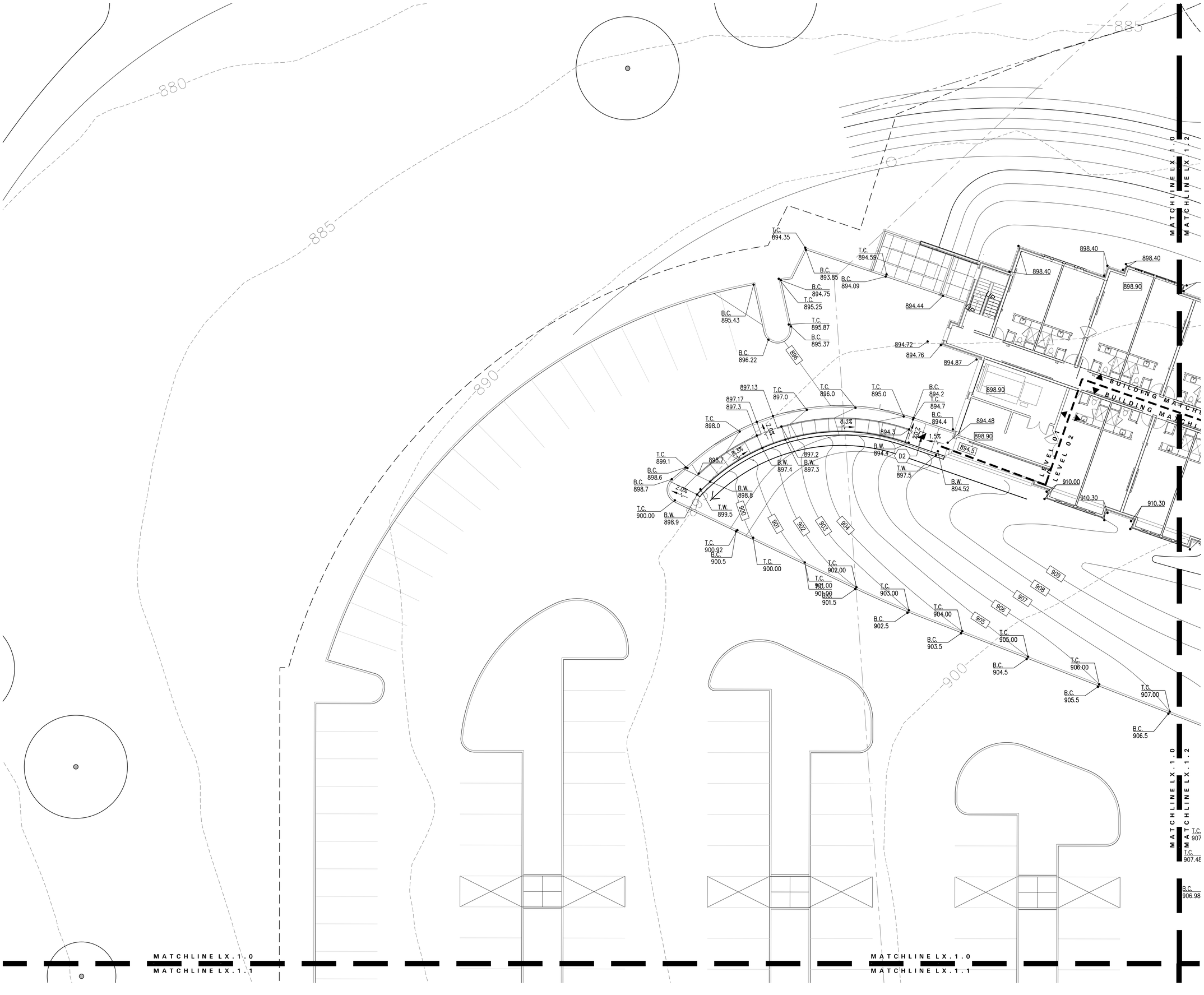

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Drawing Title

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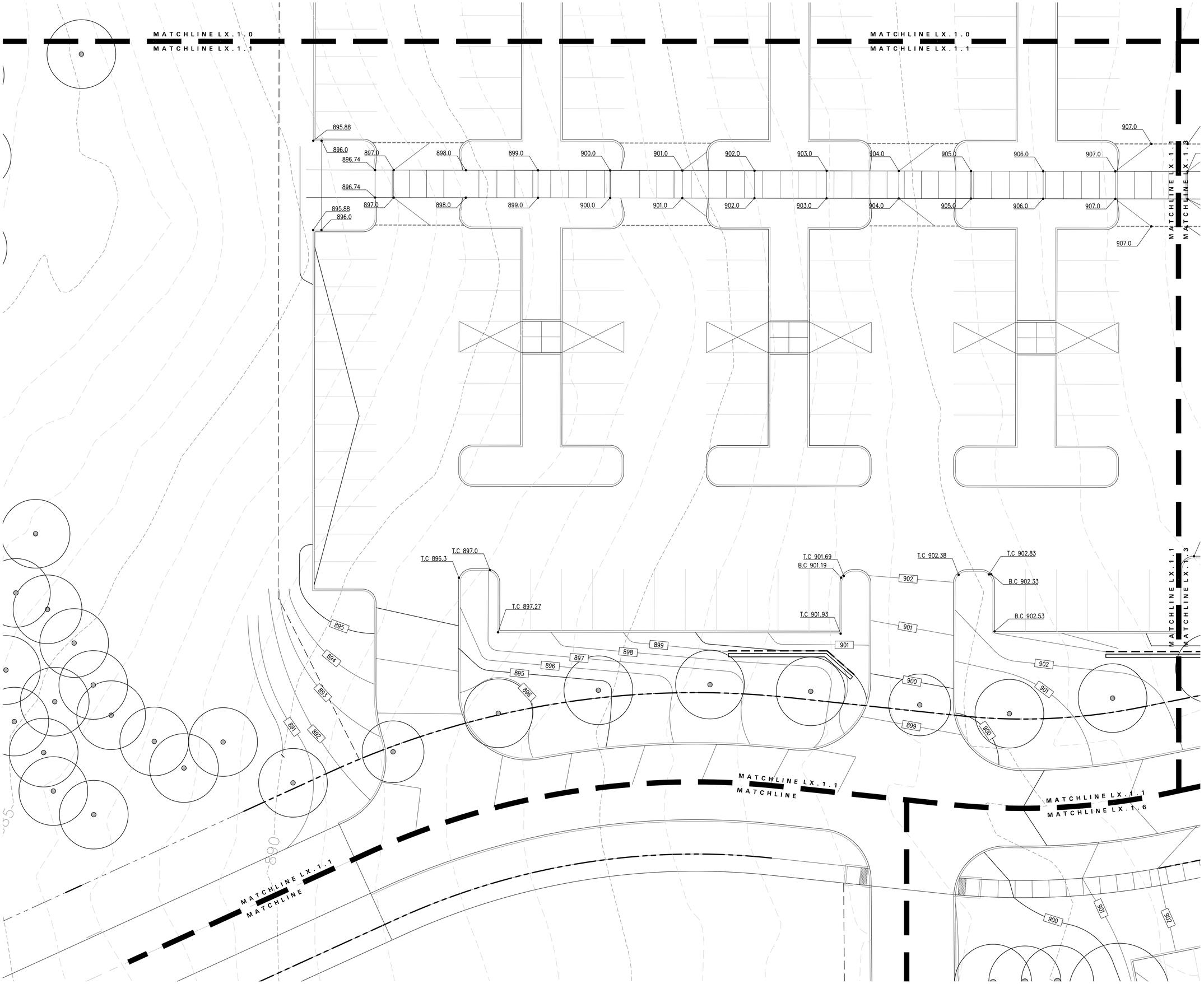

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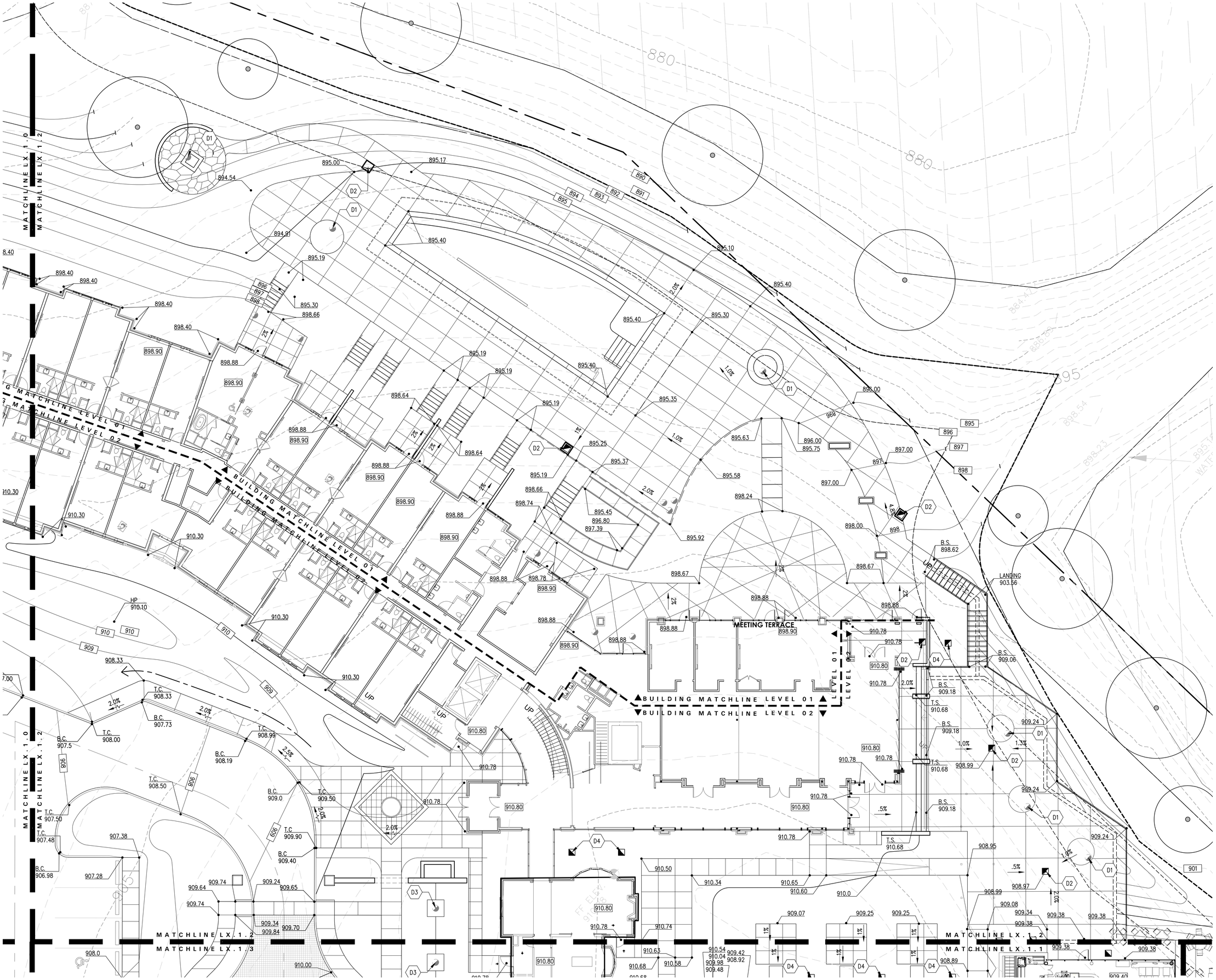

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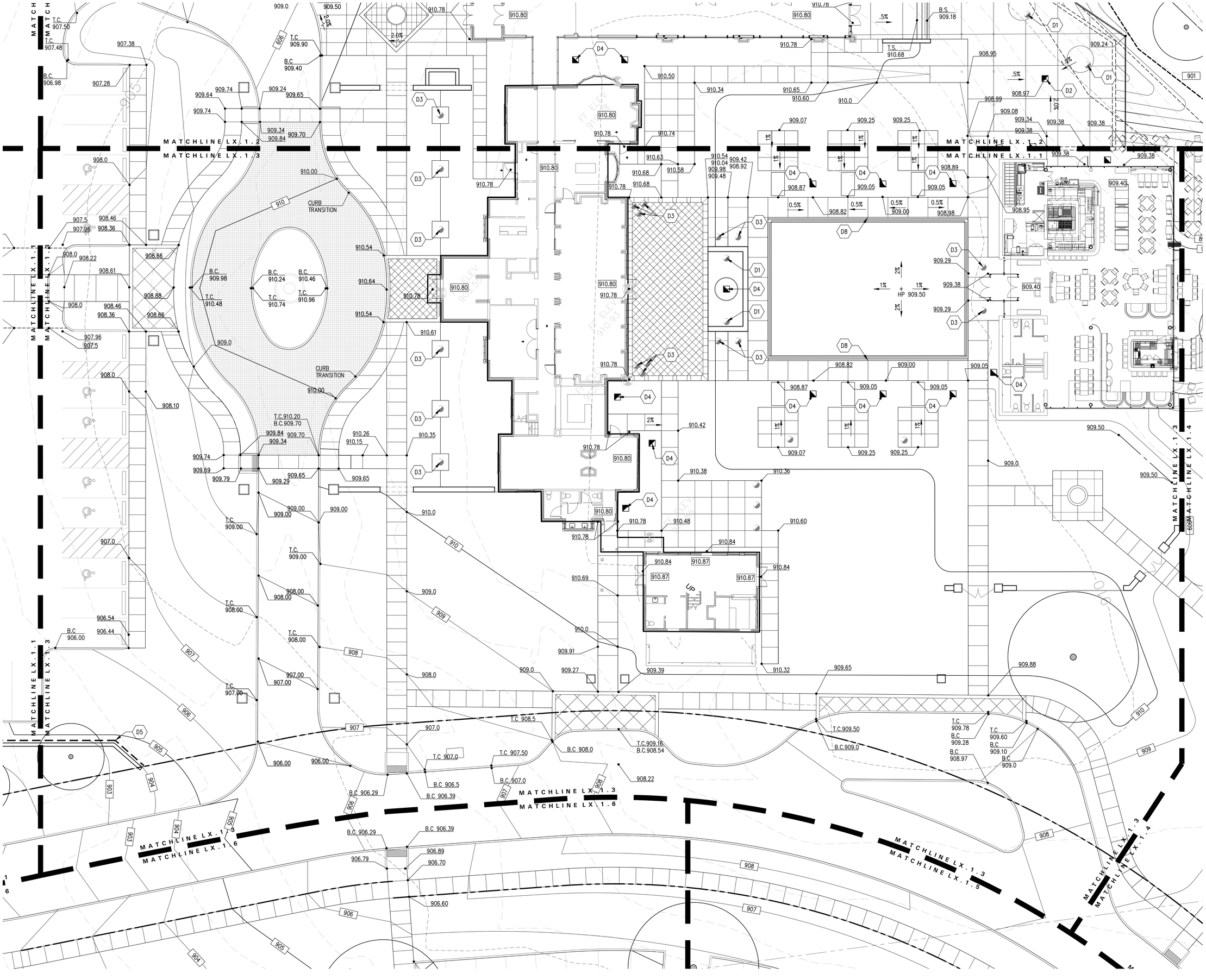

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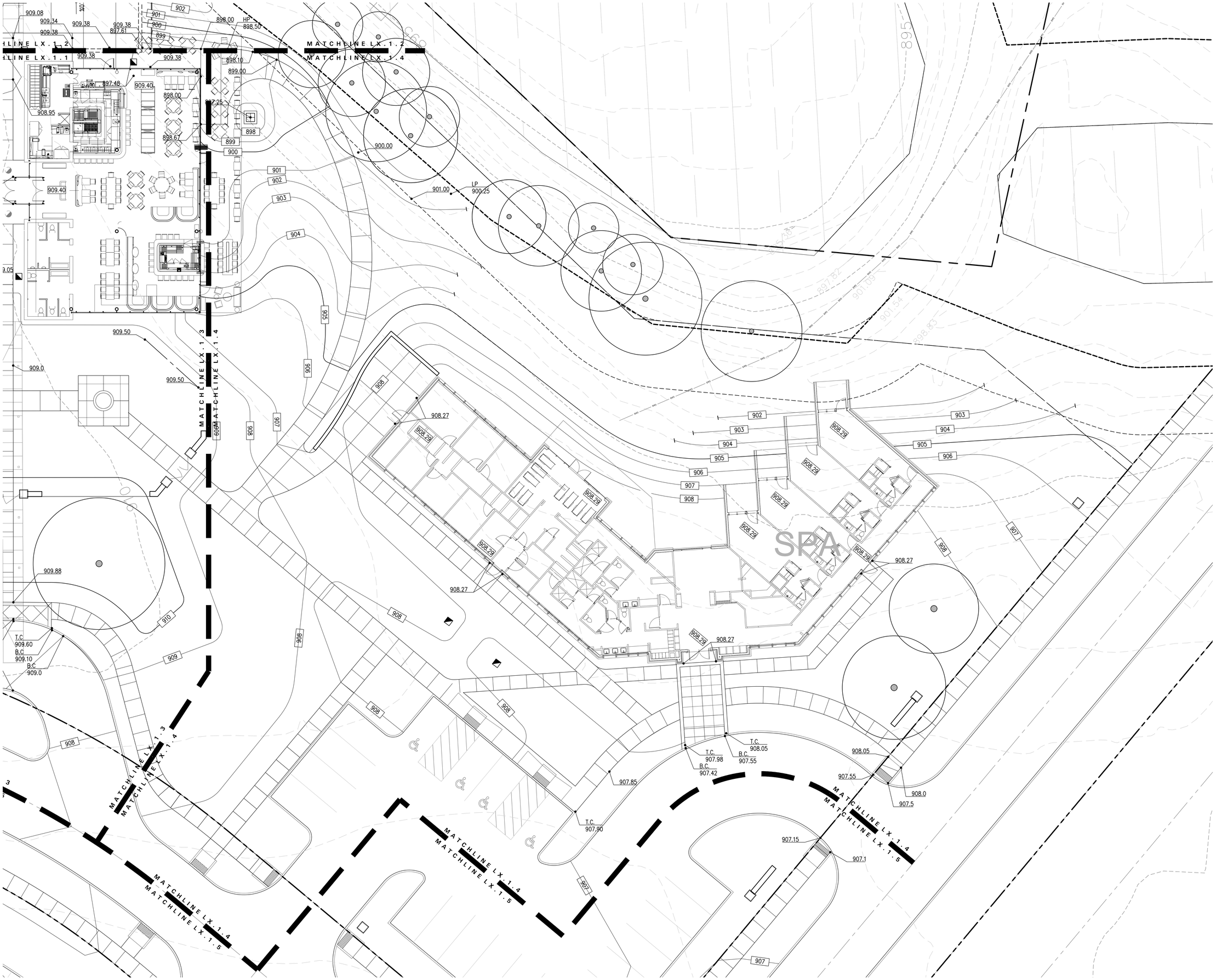

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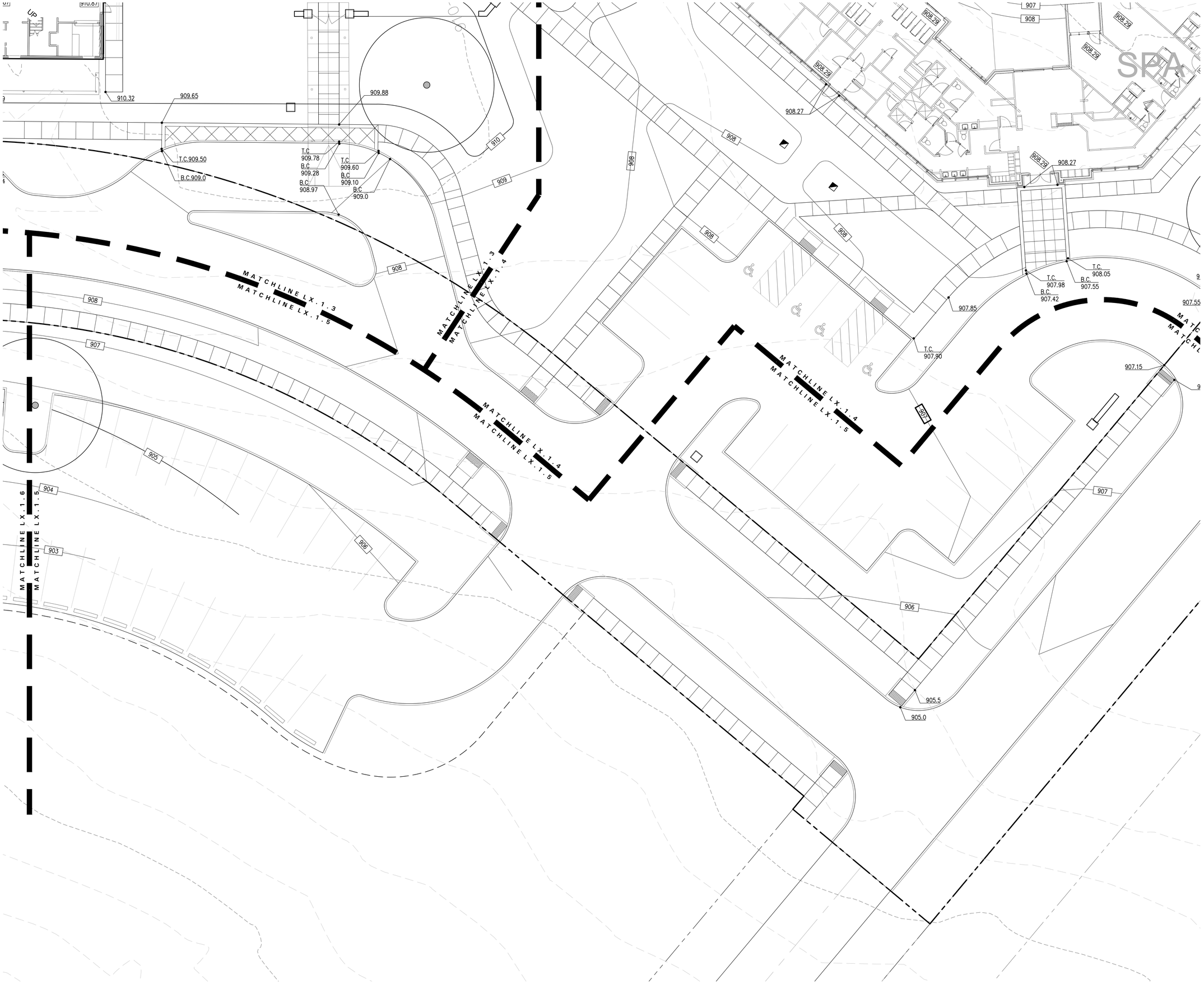

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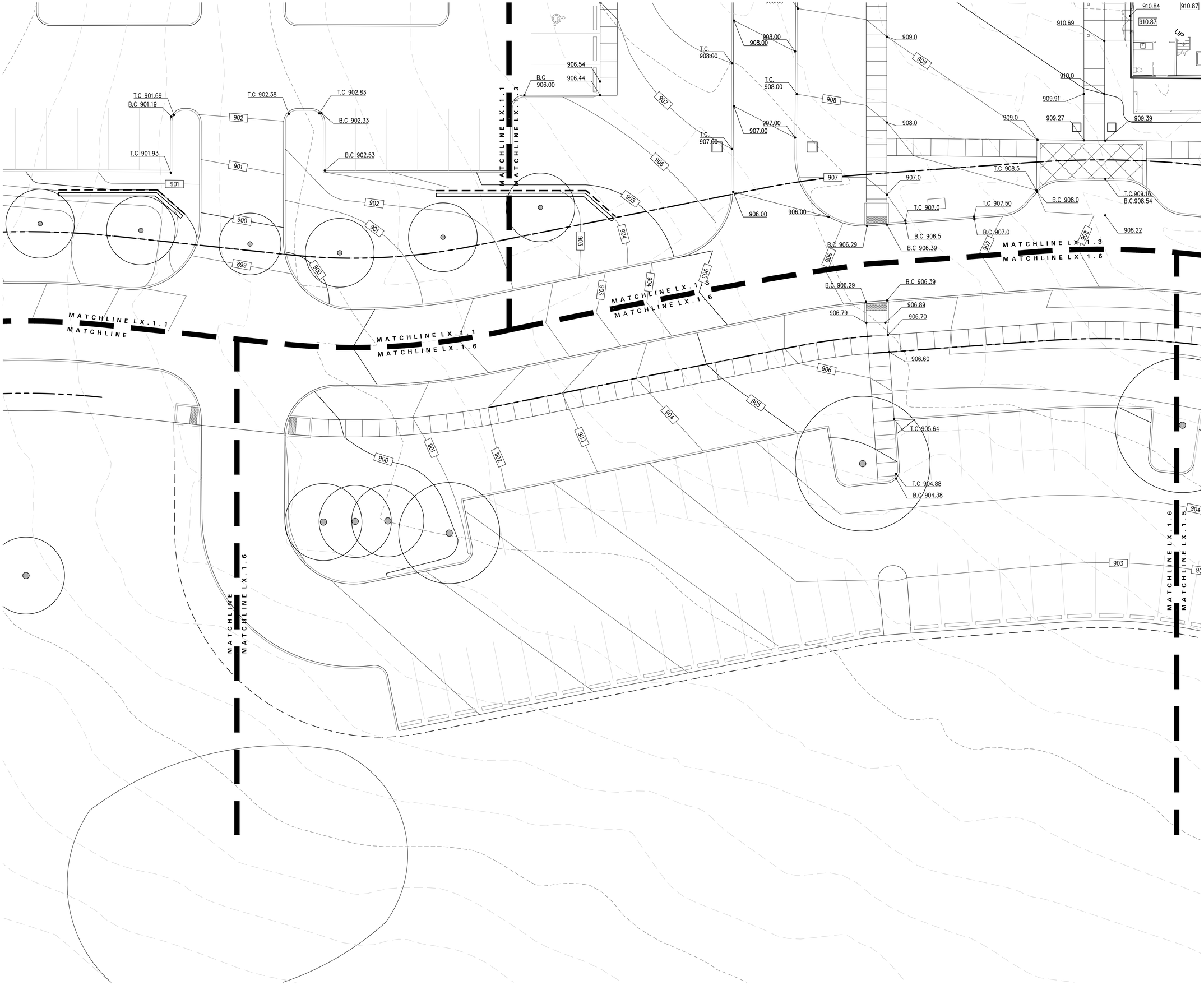

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P SCHEDULE TITLE

KEY	DESCRIPTION	MATERIAL	SIZE	COLOR	FINISH	SUPPLIER	REMARKS
P1	CONCRETE CURB AND GUTTER	STANDARD CONCRETE	PER CITY STANDARD, REFER TO CIVIL	STANDARD GRAY CONCRETE	BROOM FINISH PER CITY STANDARD	–	REINFORCED CONCRETE SIDEWALK PER STANDARDS, REFER TO CIVIL FOR THICKNESS AND REINFORCING.
P2	CONCRETE SIDEWALK	STANDARD CONCRETE	VARIES, REFER TO PLANS	STANDARD GRAY CONCRETE	MEDIUM BROOM FINISH, SINGLE DIRECTION. REFER TO PLANS	–	REINFORCED CONCRETE SIDEWALK PER CITY STANDARDS, REFER TO CIVIL FOR THICKNESS AND REINFORCING, REFER TO DETAILS
P3	GRANITE CURB AND GUTTER	GRANITE	36" MIN. LENGTH	TO MATCH OTHER	TO MATCH OTHER	–	GRANITE CURB TO MATCH EXISTING MORTAR SET WITH GROUT JOINTS AND GROUT COLOR T.B.D.
P4	ARCHITECTURAL CONCRETE (POOL AREA)	INTEGRAL COLOR ARCHITECTURAL CONCRETE	VARIES, REFER TO PLANS	SCHOONER BEIGE (SG 447–2)	LIGHT TO MEDIUM BROOM FINISH	SCOFIELD (COLOR)	4" THICK (PEDESTRIAN) REINFORCED CONCRETE WITH 1" STANDARD DIAMETER OR SMALLER AGGREGATE. AGGREGATE TO BE SINGLE COLOR – NO RAINBOW MIXES. EXPANSION JOINT SURFACE SEALANT TO MATCH CONCRETE COLOR. PROVIDE 3/16" SAWCUT CONTROL JOINTS.
P5	ARCHITECTURAL CONCRETE	ARCHITECTURAL CONCRETE	VARIES, REFER TO PLANS	STANDARD GREY	TOPCAST FINISH (#3)	GCP APPLIED TECHNOLOGIES	4" THICK (PEDESTRIAN) REINFORCED CONCRETE WITH 1" STANDARD DIAMETER OR SMALLER AGGREGATE. AGGREGATE TO BE SINGLE COLOR – NO RAINBOW MIXES. EXPANSION JOINT SURFACE SEALANT TO MATCH CONCRETE COLOR. PROVIDE 3/16" SAWCUT CONTROL JOINTS.
P6	GRANITE COBBLE STONE PAVERS	GRANITE	4"X4"	TO MATCH OTHER	HONED FINISH	T.B.D.	GRANITE COBBLE MORTAR SET WITH SANDED (POLYMERIC) JOINTS
P7	LIMESTONE PAVER	LIMESTONE	N/A	CHARCOAL	LEATHER	T.B.D.	XX" THICK STONE PAVEMENT PER PATTERN ON PLANS. MORTAR SET WITH COLORED GROUT JOINTS TO MATCH STONE.
P8	FLAGSTONE PAVING	NATIVE STONE	MIN 30" LENGTH ALL DIRECTION	TENNESSEE GREY	SMOOTH PLANKS WITH EASED CORNERS	T.B.D.	2" THICK X RANDOM SIZES, OVERSIZED MIN. 18" LENGTH WITH 60% AVG. AT 36" LENGTH, MORTAR SET ON REINFORCED CONCRETE SUB SLAB, WITH PREPARED SUB BASE AND SUB GRADE. ALL JOINTS/EDGES CUT TO FIT, MAX.3/8" WIDE MORTAR JOINTS. MORTAR JOINT COLOR TO MATCH FLAGSTONE.
P9	CONCRETE STEPS (TO MATCH P2)	STANDARD CONCRETE	VARIES, REFER TO DETAILS	STANDARD GRAY CONCRETE	MEDIUM BROOM FINISH, SINGLE DIRECTION	–	REINFORCED CONCRETE STEPS, REFER TO CIVIL FOR THICKNESS AND REINFORCING. REFER TO DETAILS.
P10	CONCRETE STEPS (TO MATCH P4)	INTEGRAL COLOR ARCHITECTURAL CONCRETE	VARIES, REFER TO DETAILS	TBD	TOPCAST FINISH	–	REINFORCED CONCRETE STEPS, REFER TO CIVIL FOR THICKNESS AND REINFORCING. REFER TO DETAILS.
P11	CONCRETE STEPS (TO MATCH P5)	INTEGRAL COLOR ARCHITECTURAL CONCRETE	VARIES, REFER TO DETAILS	MATCH P.4	TOPCAST FINISH P.4 IS BROOM FINISH	–	REINFORCED CONCRETE STEPS, REFER TO CIVIL FOR THICKNESS AND REINFORCING. REFER TO DETAILS.
P12	LIMESTONE STEPS (TO MATCH P7)	LIMESTONE	N/A	CHARCOAL	LEATHER	T.B.D.	STONE OR STONE VENEER BLOCK STEPS, MORTAR SET WITH COLORED GROUT JOINTS.
P13	DECOMPOSED GRANITE					–	–

STONE/WALL SCHEDULE (W)

KEY	DESCRIPTION	MATERIAL	SIZE	COLOR	FINISH	SUPPLIER	REMARKS
W1	CONCRETE WALL	STANDARD CONCRETE	REFER TO DETAILS	T.B.D.	SMOOTH/ RUBBEL	–	REINFORCING CONCRETE WALL. REFER TO STRUCTURAL FOR REINFORCING
W2	PAINTED BRICK VENEER CONCRETE WALL	–	REFER TO DETAILS	TO MATCH ARCHITECTURE	TO MATCH ARCHITECTURE	–	–
W3	STONE VENEER CONCRETE WALL	MANUFACTURED STONE	REFER TO DETAILS	TO MATCH ARCHITECTURE	TO MATCH ARCHITECTURE	–	–
W4	BIG BLOCK STONE WALL	NATIVE STONE	REFER TO DETAILS	TBD	TBD	–	STACKED STONE BLOCK WALL WITH MORTAR BACKING AS NEEDED. RACKED JOINTS (MIN. 1/3 DEPTH OF STONE)
W5	DRY STACK STONE WALL	NATIVE STONE	REFER TO DETAILS	TBD	TBD	–	STACKED STONE WALL WITH MORTAR BACKING AS NEEDED. RAKED JOINTS (MIN. 1/3 DEPTH OF STONE) WITH SOLID CAP PER DETAILS
W6	SCREEN WALL	WOOD	REFER TO DETAILS	TO MATCH ARCHITECTURE	TO MATCH ARCHITECTURE	–	–

RAIL / FENCE / MISCELLANEOUS METAL SCHEDULE (M)

KEY	DESCRIPTION	MATERIAL	SIZE	COLOR	FINISH	SUPPLIER	REMARKS
M1	STEP HANDRAIL	BAR STOCK STEEL	REFER TO PLANS/DETAILS	TO MATCH ARCHITECTURE	SMOOTH	–	SOLID BAR STUCK HANDRAILS PER DETAILS. FULL WELDS, GROUND SMOOTH AND FLUSH. EASE ALL EDGES. (2) COATS PRIMER AND MIN. (1) COAT METAL ADHERING PAINT (METAL FINISH)
M2	POOL FENCE	TUBULAR STEEL FENCE	48" HEIGHT	BLACK	SMOOTH	–	TUBULAR STEEL FENCE PER DETAILS. FULL WELDS, GROUND SMOOTH AND FLUSH
M3	OVER LOOK RAILING	CABLE RAIL	42" HEIGHT	BLACK	TO MATCH ARCHITECTURE	–	SOLID BAR STUCK HANDRAILS PER DETAILS. FULL WELDS, GROUND SMOOTH AND FLUSH. EASE ALL EDGES. (2) COATS PRIMER AND MIN. (1) COAT METAL ADHERING PAINT (METAL FINISH)
M4	METAL RAILING	BAR STOCK	42" HEIGHT	TO MATCH ARCHITECTURE	SMOOTH	–	–
M5	POOL HANDRAIL	TUBULAR STAINLESS STEEL, MARINE GRADE	REFER TO DETAILS	STAINLESS STEEL	SMOOTH	–	REFER TO POOLS DETAILS
SE	STEEL EDGE	GALVANIZED STEEL	3/16" X 5"	BLACK	HOT–DIPPED GALVANIZED	–	3/16" THICK X 5" DEEP GALVANIZED STEEL EDGE. WELD AT CORNERS (INSIDE) AND GRIND SMOOTH. PROVIDE SS RODS/STAKES AT 6'–0" O.C. ON THE INSIDE OF STEEL.

POOL FINISH SCHEDULE (PF)

KEY	DESCRIPTION	MATERIAL	SIZE	COLOR	FINISH	SUPPLIER	REMARKS	DETAIL
PF1	PEBBLE TECH POOL PLASTER	POOL PLASTER	FULL COVERAGE	TBD (STANDARD)	PEBBLESHEEN	–	PEBBLE TECH POOL PLASTER. REFER DETAILS AND MANUFACTURER INFORMATION FOR INSTALLATION AND THICKNESS REQUIREMENTS.	
PF2	POOL COPING	ARCHITECTURAL CONCRETE	PER DETAIL	TO MATCH P4	SMOOTH	SCOFIELD (COLOR)	THICK (PEDESTRIAN) REINFORCED CONCRETE WITH 1" STANDARD DIAMETER OR SMALLER AGGREGATE. AGGREGATE TO BE SINGLE COLOR – NO RAINBOW MIXES. EXPANSION JOINT SURFACE SEALANT TO MATCH CONCRETE COLOR. PROVIDE 3/16" SAWCUT CONTROL JOINTS.	
PF3	POOL WATER LINE TILE	GLASS TILE LE GEMME 10	1"X1"	TBD	SMOOTH	BISAZZA	GLASS TILE, REFER TO PLANS AND DETAILS FOR LAYOUT. COLORED GROUT TO BE SELECTED THROUGH MOCK–UPS.	
PF4	DELINEATION TILE	PORCELAIN TILE	1"X1"	TBD (STANDARD)	NON – SLIP	–	PORCELAIN TILE, REFER TO PLANS AND DETAILS FOR LAYOUT. COLORED GROUT TO BE SELECTED THROUGH MOCK–UPS.	

WATER FEATURE SCHEDULE (WF)

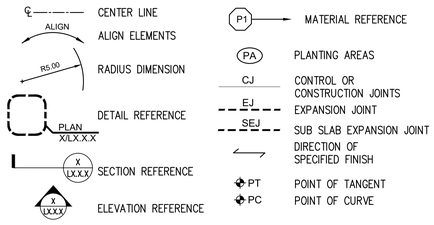
KEY	DESCRIPTION	MATERIAL	SIZE	COLOR	FINISH	SUPPLIER	REMARKS
WF1	SUGAR KETTLE (WATER FEATURE)	CAST IRON	7' DIA	NATURAL	NATURAL	GROVE KETTLES	TO HAVE A SMALL BUBBLER AND PLANTED WITH WATER LILIES

NOTE: ALL FINISHES SHALL BE MOCKED UP AND REVIEWED BY LANDSCAPE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. REFER TO SPECIFICATIONS FOR MOCKUP SIZE AND REQUIREMENTS.

LAYOUT/DIMENSIONAL CONTROL NOTES:

1. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTIO LANDSCAPE ARCHITECT FOR DIRECTION AND RESOLUTION OF DISCREPANCIES PROCEEDING.
2. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS THE LANDSCAPE ARCHITECT FOR INSTRUCTION OF THE CONFLICTING/CONCE PRIOR TO COMMENCING WORK.
3. ALL DIMENSIONS ARE TAKEN PERPENDICULAR TO WALL, CURB, P.O.B., OR (UNLESS OTHERWISE NOTED. DIMENSIONS AT CURB ARE FROM BACK OF CU
4. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHA SPACED EQUALLY, MEASURED TO THEIR CENTER LINES OR OTHER NOTED REFERENCES.
5. INSTALL ALL INTERSECTION ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.
6. DIMENSIONAL COORDINATE POINTS HAVE BEEN COORDINATED WITH DATA PROVIDED BY CIVIL ENGINEER.
7. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
8. THIS DRAWING INCLUDES THE LOCATION OF VARIOUS DRAIN DEVICES AND SYSTEMS. COORDINATE CONSTRUCTION, DETAILS AND UTILITY CONNECTIONS WITH RELATED ENGINEERING DRAWINGS. CONFIRM LOCATIONS WITH THE LANDSCAPE ARCHITECT PRIOR TO ROUGH IN.
9. FOR HANDICAPPED STANDARDS, VERIFY COMPLIANCE WITH LATEST EDITION OF ADA, TAS AND OTHER LOCAL ACCESSIBLE STANDARDS PRIOR TO CONSTRUCTION. WHERE FIELD MODIFICATIONS ARE REQUIRED FOR COMPLIANCE, CONSTRUCTION CHANGES MAY BE APPLIED INCLUDING DIFFERENT GRADES AND LAYOUT THAN THOSE NOTED HEREIN.

LAYOUT AND MATERIALS LEGEND



PAVING THICKNESS REQUIREMENTS

- ASSUME ALL PEDESTRIAN SIDEWALK ARE 4" THICK REINFORCED CONCRETE.

- PAVING REQUIREMENTS TO BE CONFIRMED PENDING FINAL GEOTECHNICAL REPORT.

GREENVILLE COUNTY,
GREENVILLE, SOUTH CAROLINA

Client

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Job Number
HDIS801

Drawing Title

MATERIAL SCHEDULES

Drawing Number

L3.0.0

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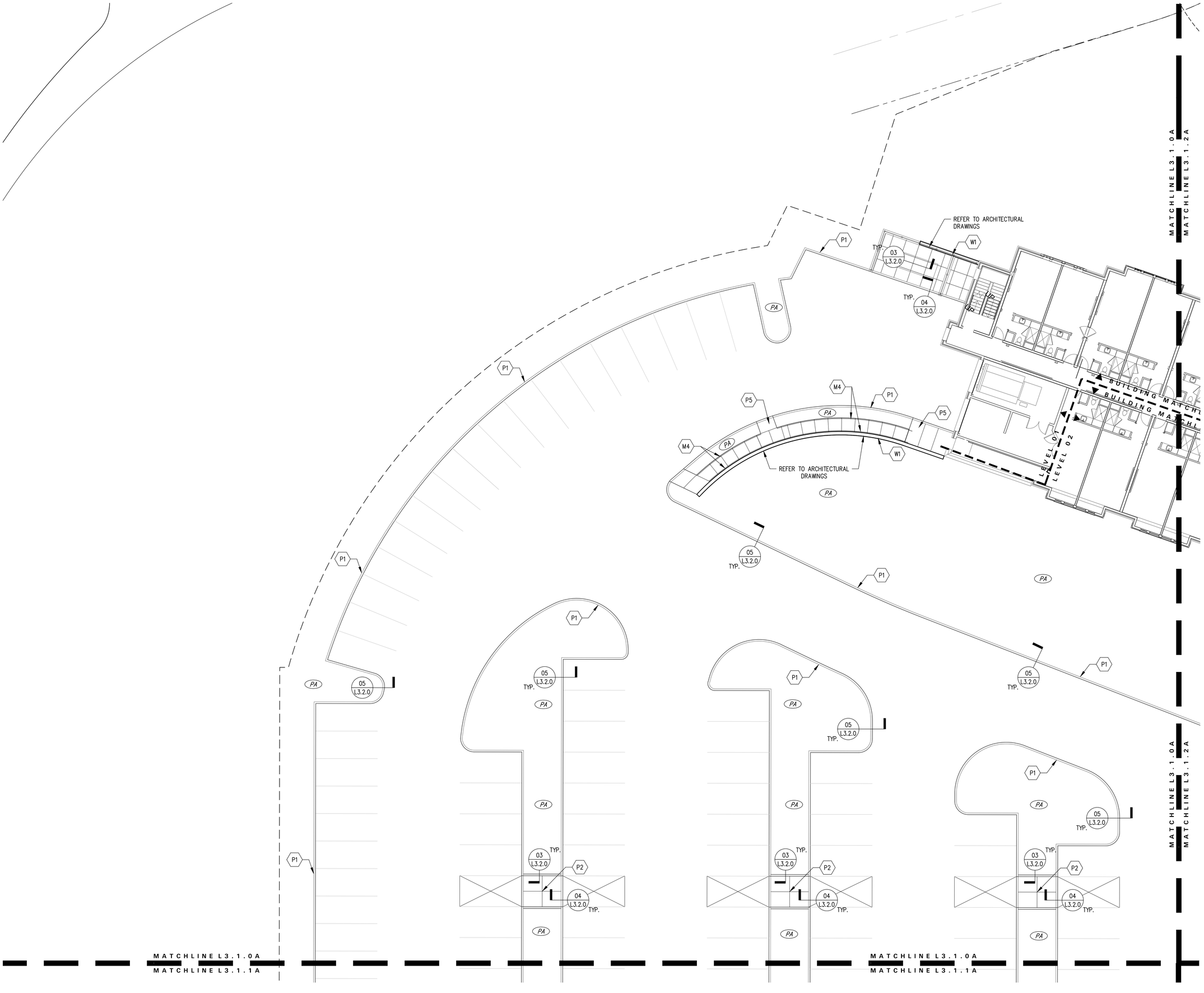

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Scale
0 5' 10'
1" = 10'

North

Drawing Title

LAYOUT & MATERIAL PLAN

Drawing Number

L3.1.0A

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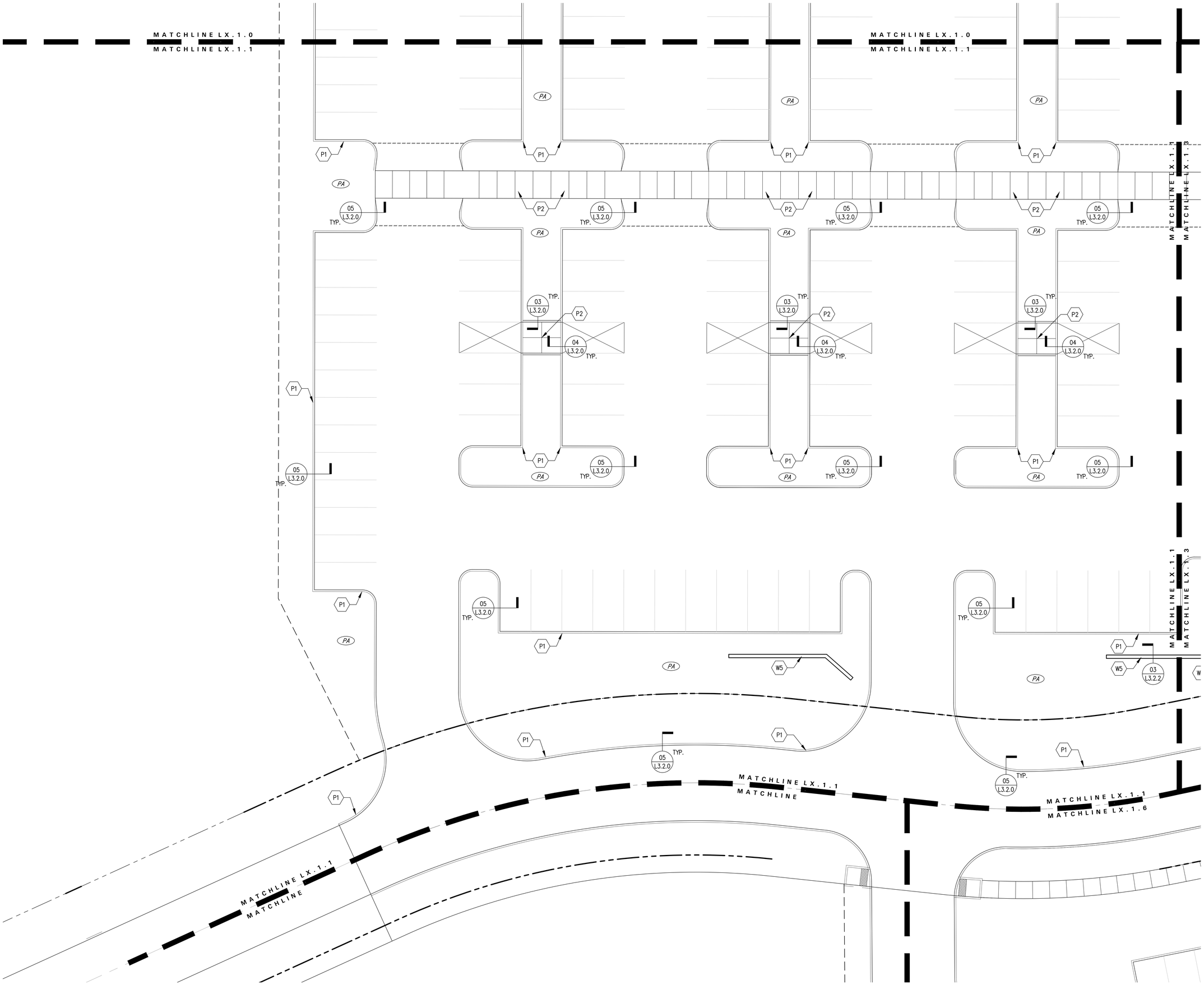

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North

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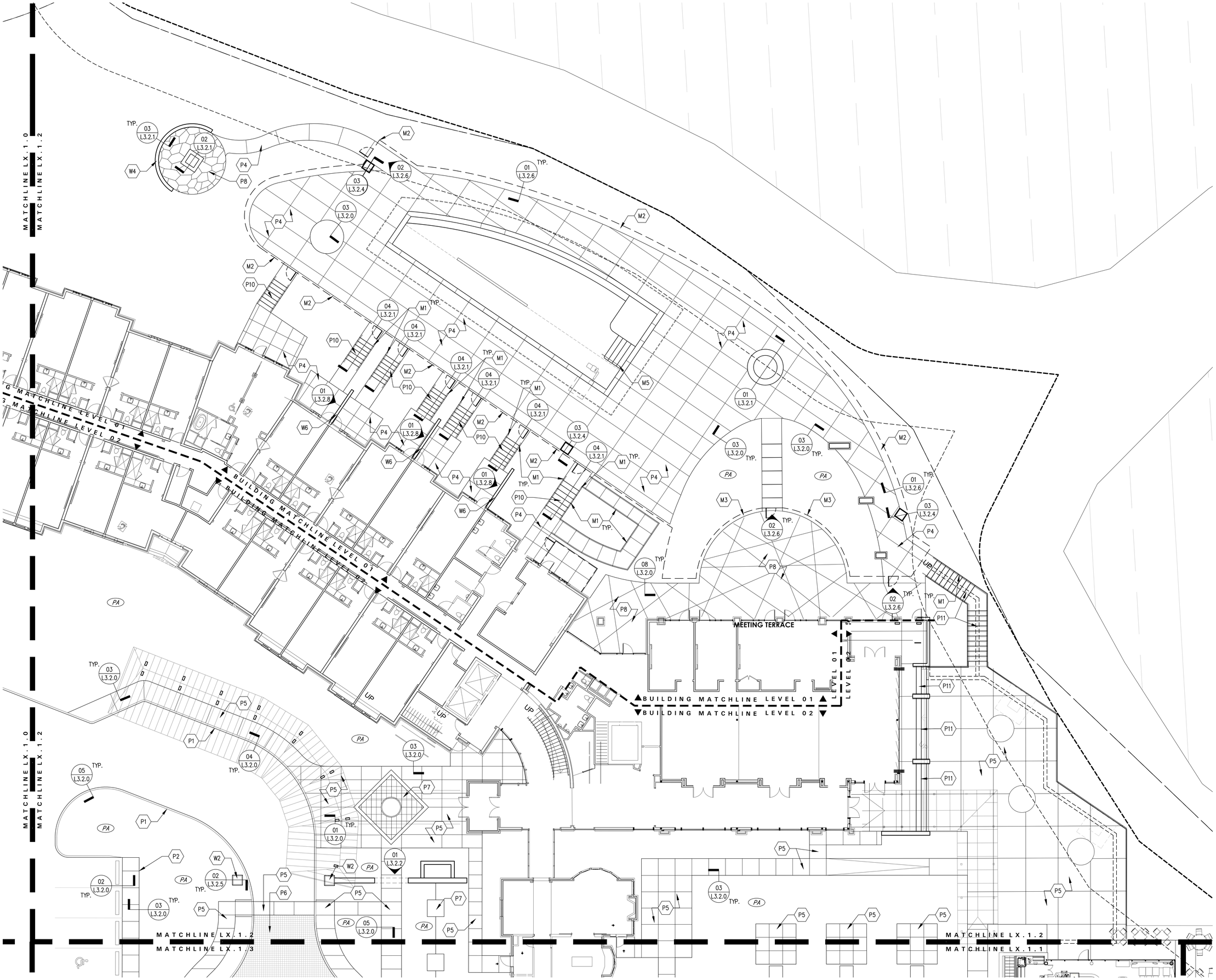

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1" = 10'

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Drawing Number

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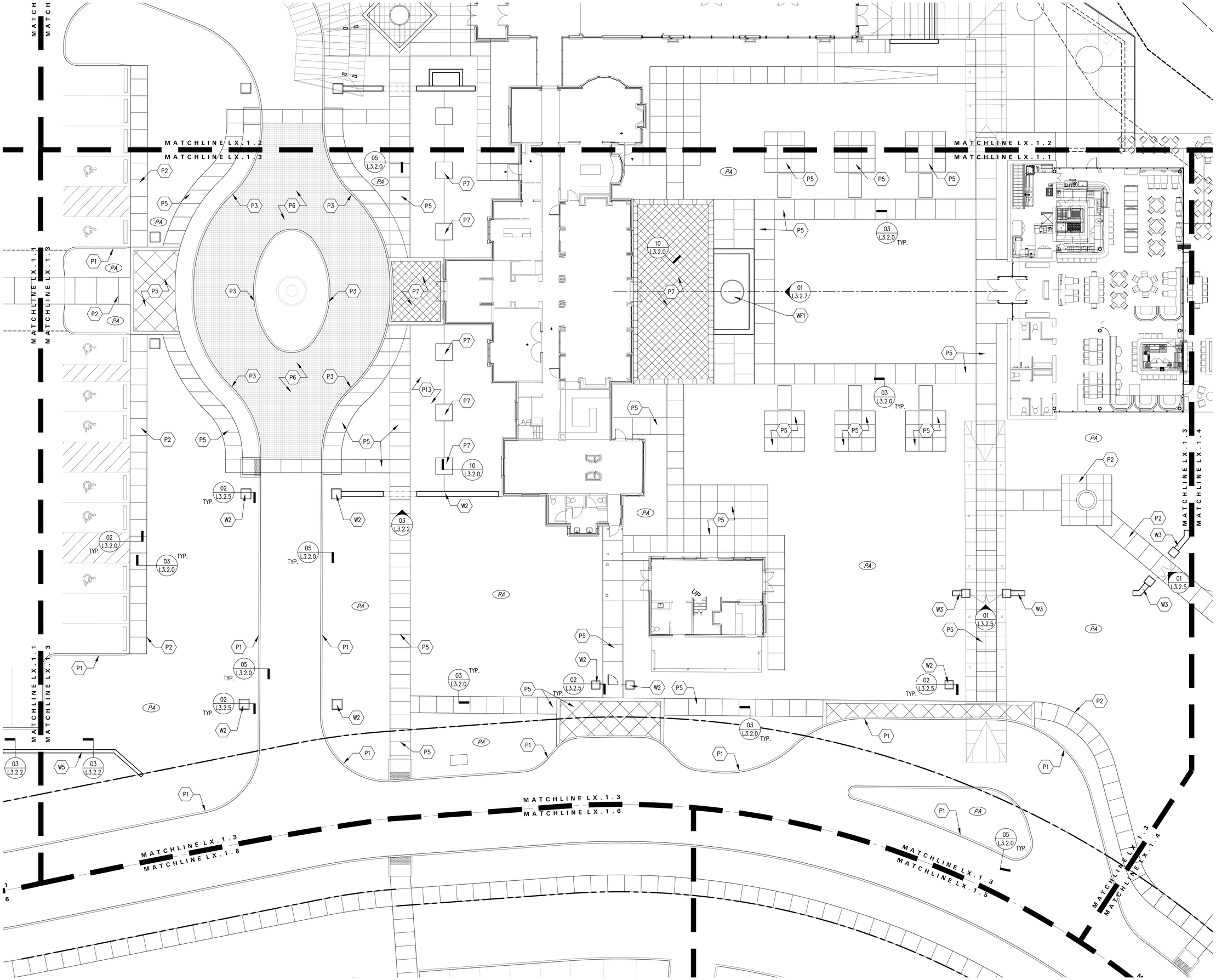

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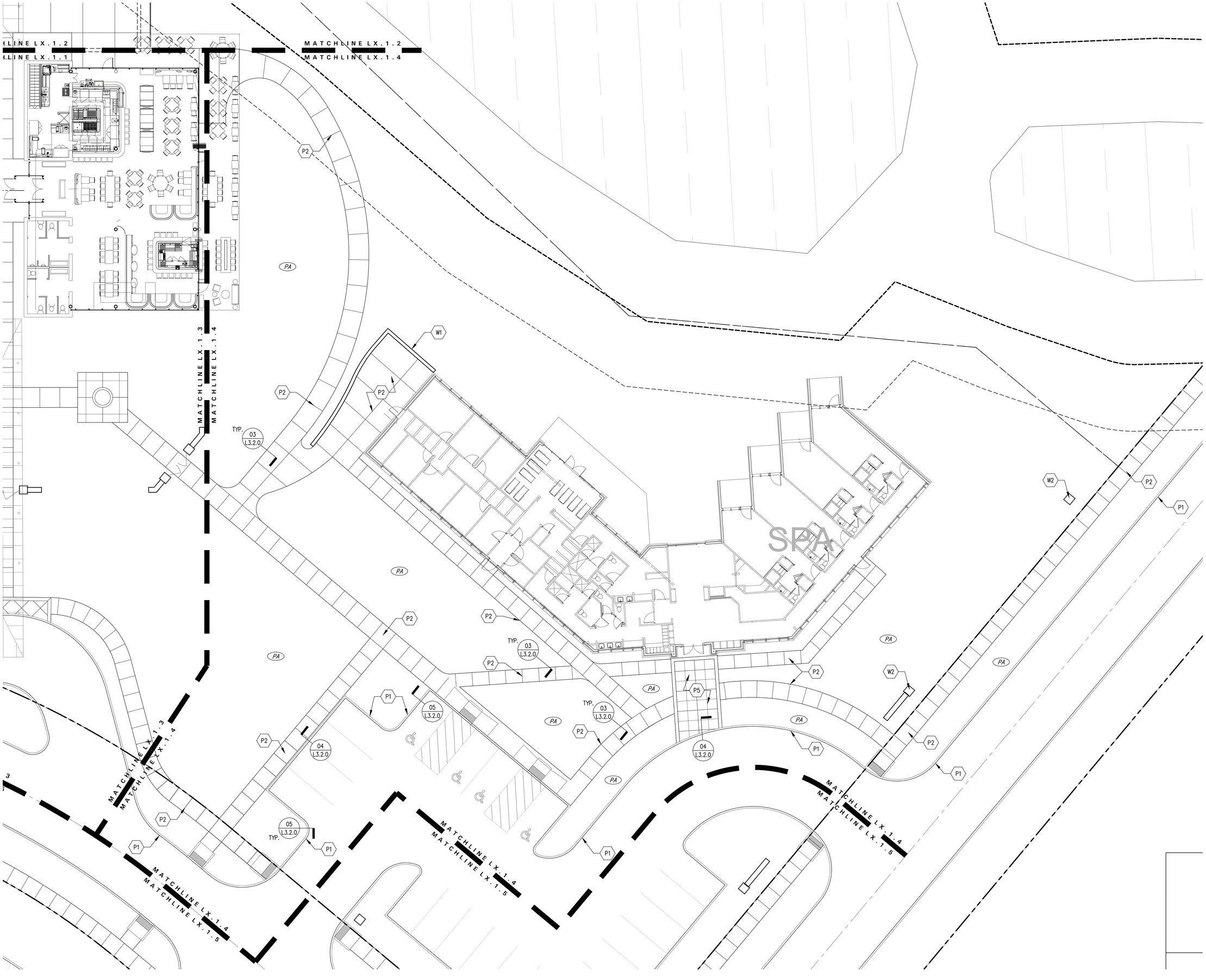

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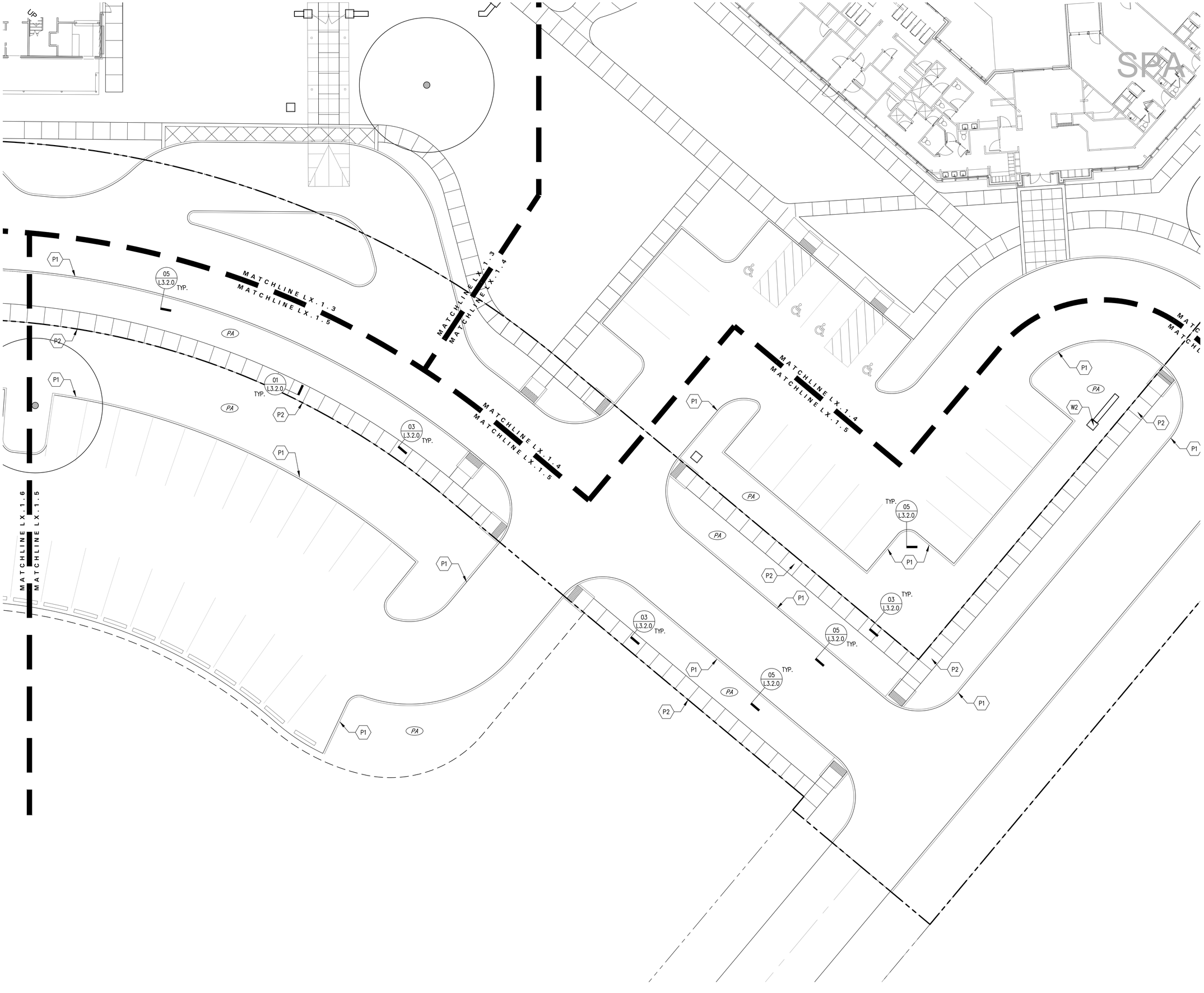

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Drawing Title

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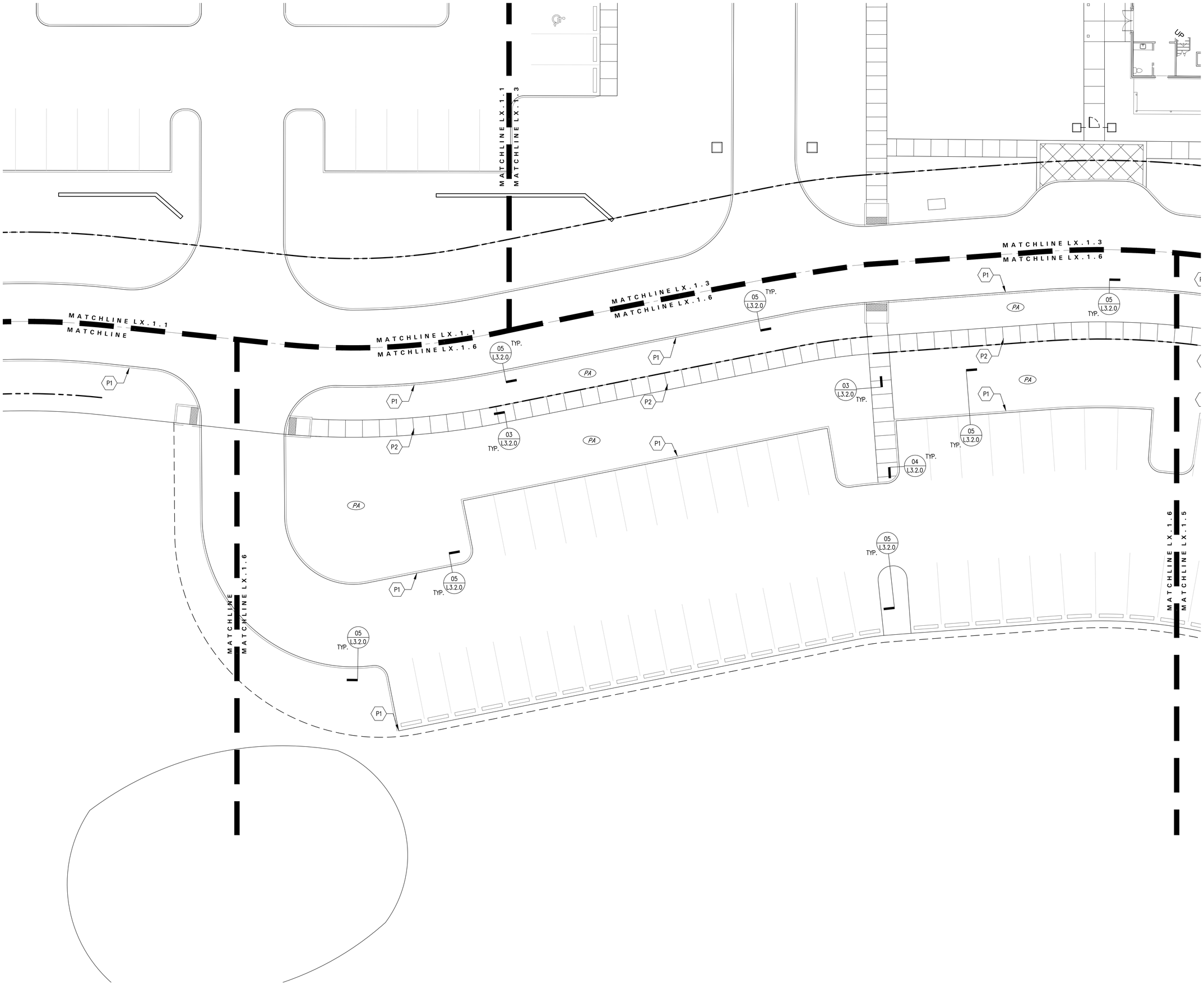

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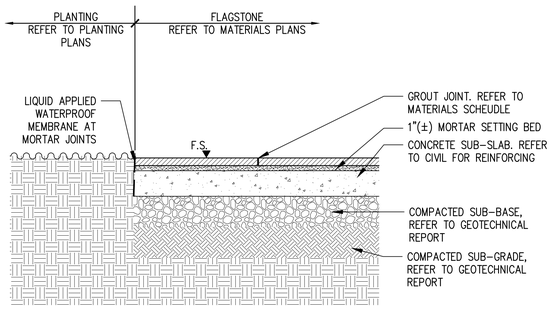
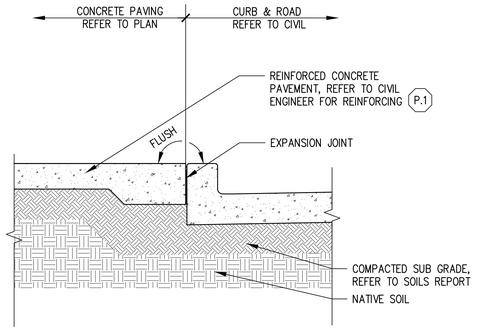
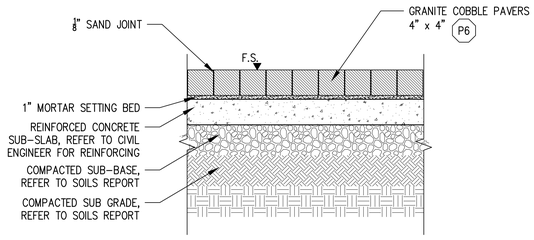


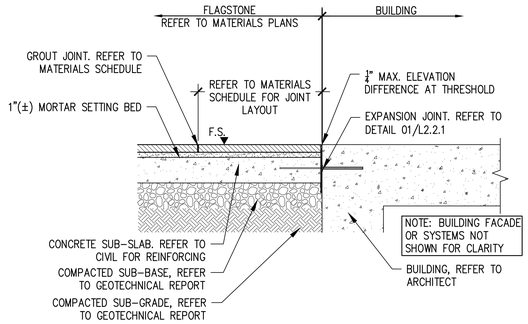
08 TYPICAL FLAGSTONE AT PLANTING
1" = 1'-0"



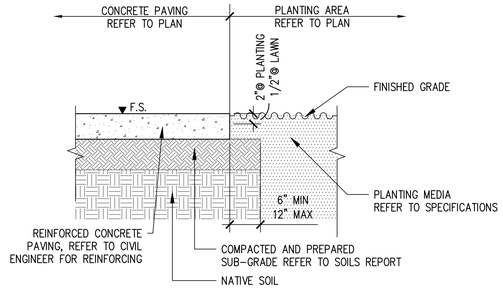
04 TYPICAL ROAD CURB AT CONCRETE
1" = 1'-0"



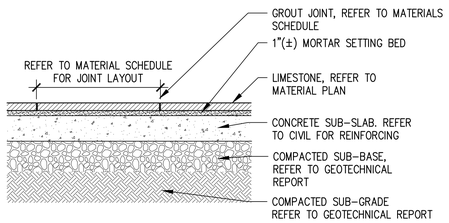
11 TYPICAL GRANITE COBBLE PAVER
1" = 1'-0"



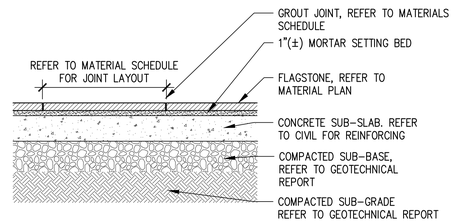
07 TYPICAL FLAGSTONE AT BUILDING
1" = 1'-0"



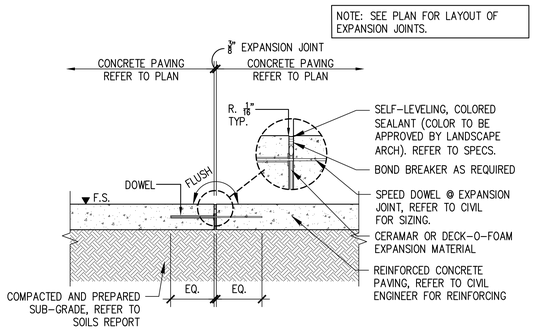
03 TYPICAL CONCRETE PAVING AT PLANTING DETAIL
1" = 1'-0"



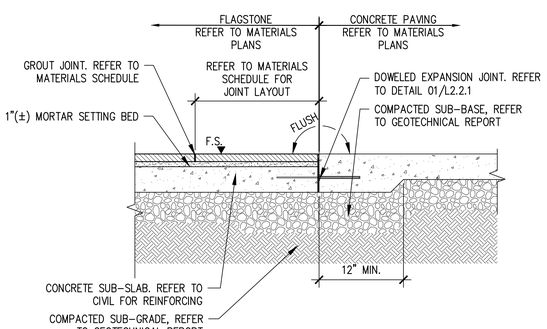
10 TYPICAL LIMESTONE PAVING
1" = 1'-0"



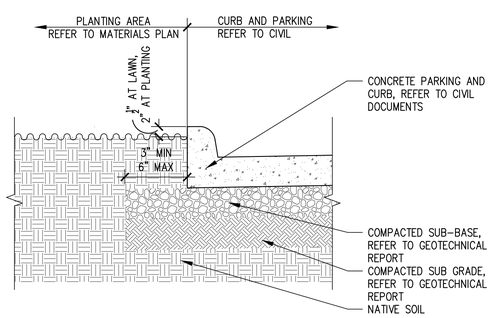
06 TYPICAL FLAGSTONE PAVING
1" = 1'-0"



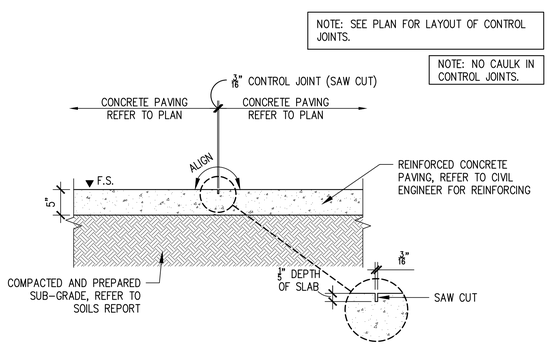
02 TYPICAL CONCRETE EXPANSION JOINT DETAIL
1" = 1'-0"



09 TYPICAL FLAGSTONE AT CONCRETE PAVING
1" = 1'-0"



05 TYPICAL ROAD CURB AT PLANTING
1" = 1'-0"



01 TYPICAL CONCRETE CONTROL JOINT DETAIL
1" = 1'-0"

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Drawing Title

HARDSCAPE DETAILS

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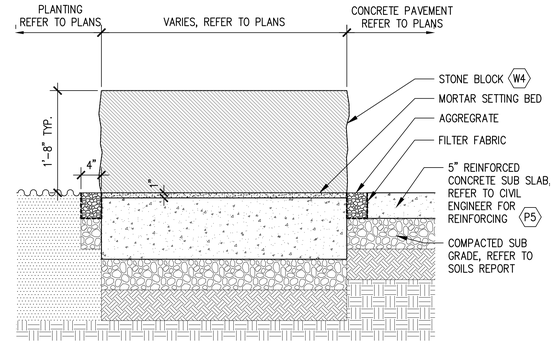
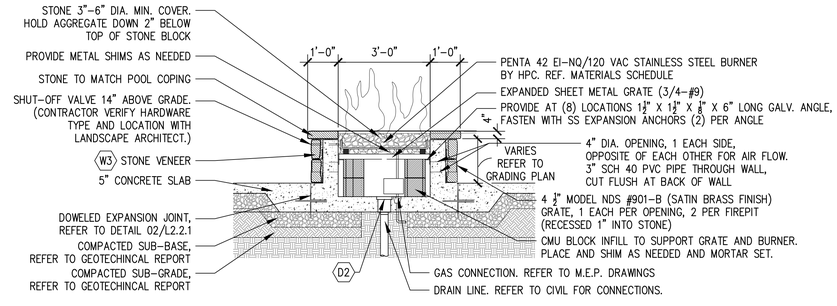
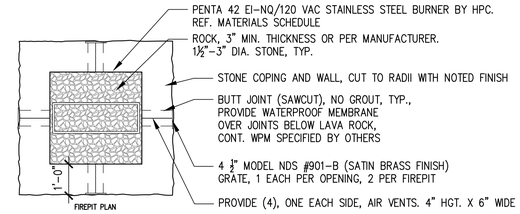
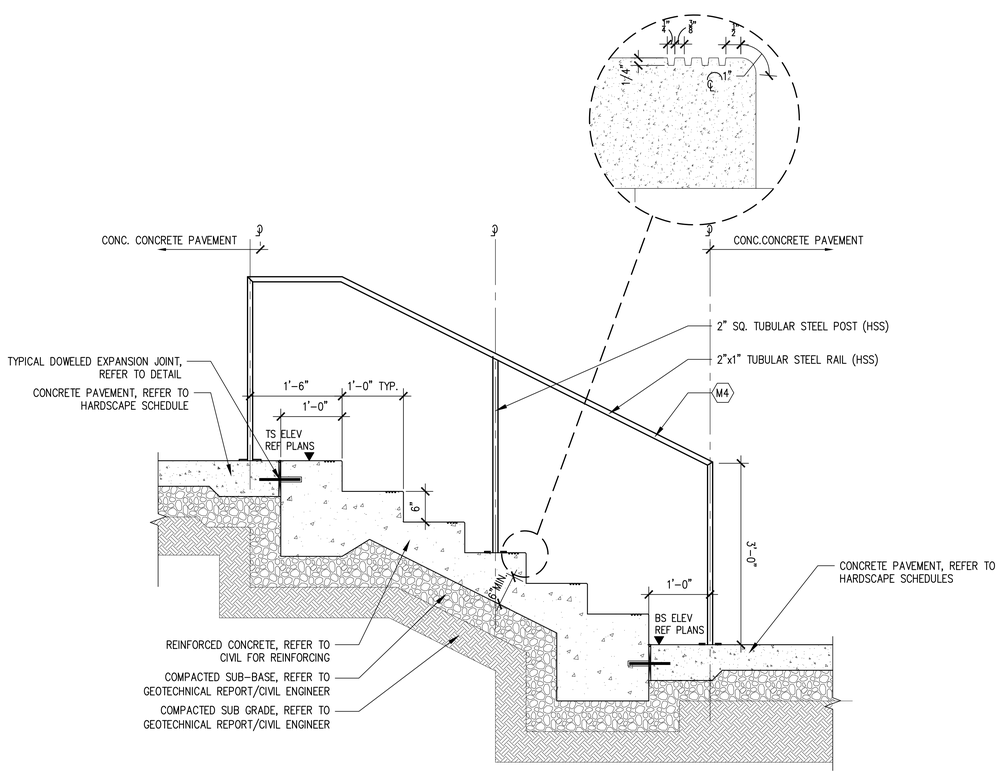


03 STONE SEAT BLOCK
1" = 1'-0"

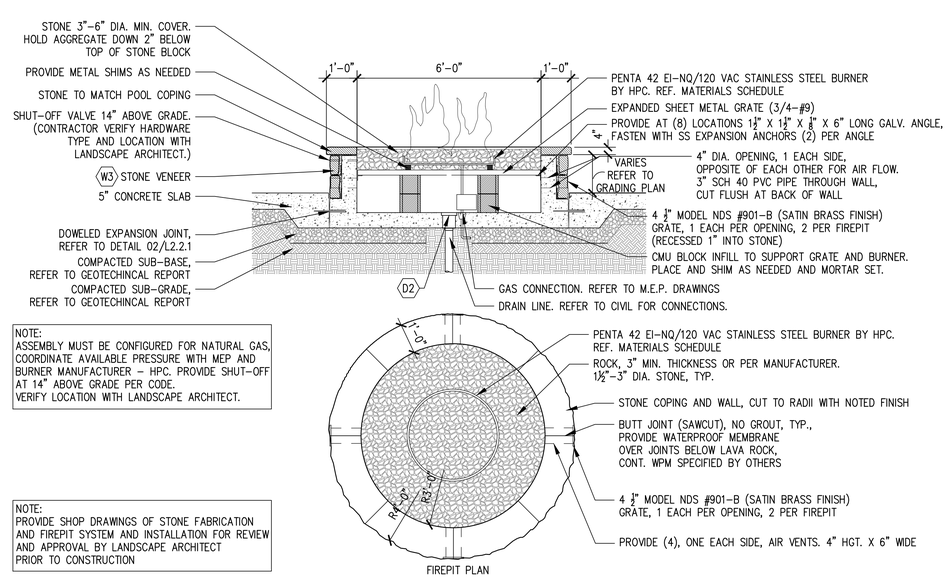




02 FIREPIT RECTANGLE
1/2" = 1'-0"



04 TYP. CONCRETE STAIR WITH HANDRAIL
1" = 1'-0"



NOTE:
ASSEMBLY MUST BE CONFIGURED FOR NATURAL GAS, COORDINATE AVAILABLE PRESSURE WITH MEP AND BURNER MANUFACTURER - HPC. PROVIDE SHUT-OFF AT 14" ABOVE GRADE PER CODE. VERIFY LOCATION WITH LANDSCAPE ARCHITECT.

NOTE:
PROVIDE SHOP DRAWINGS OF STONE FABRICATION AND FIREPIT SYSTEM AND INSTALLATION FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION

01 FIREPIT CIRCLE
1/2" = 1'-0"

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WALL AND STAIR DETAILS

Drawing Number

L3.2.1

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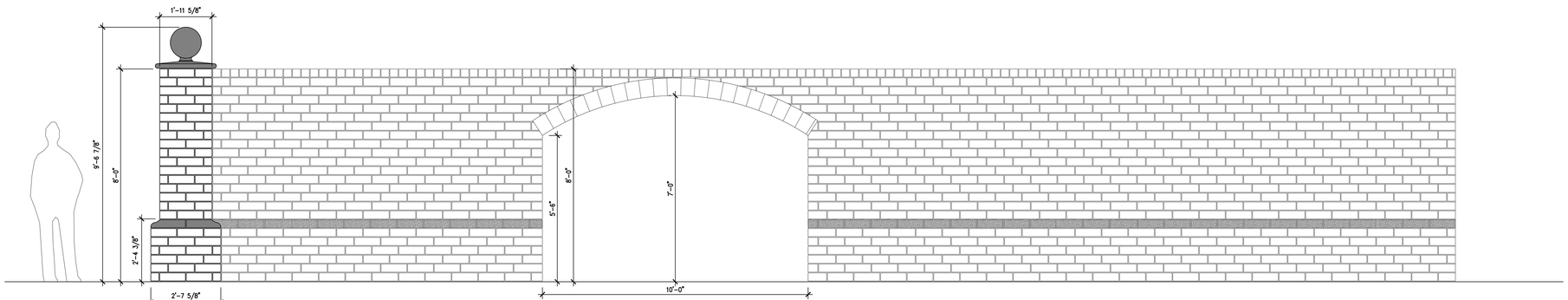
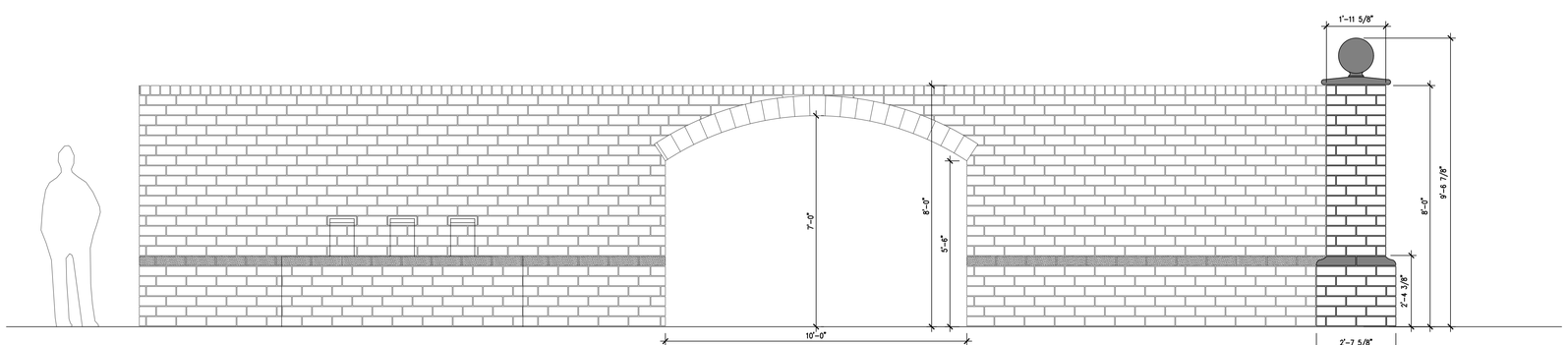
03 DRY STACK WALL
1/2" = 1'-0"



02 HOTEL DROPOFF PORTAL
1/2" = 1'-0"



01 HOTEL DROPOFF
1/2" = 1'-0"

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P: 214-295-5775

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WALL DETAILS

Drawing Number

L3.2.2

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02 SPA ENTRANCE WALL
1" = 1'-0"

01 WALL 2
1" = 1'-0"

HOTEL HARTNESS

GREENVILLE COUNTY,
GREENVILLE, SOUTH CAROLINA

Client

HARTNESS HOTEL DEVELOPMENT, LLC
3500 SOUTH HWY 14
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POOL DETAILS

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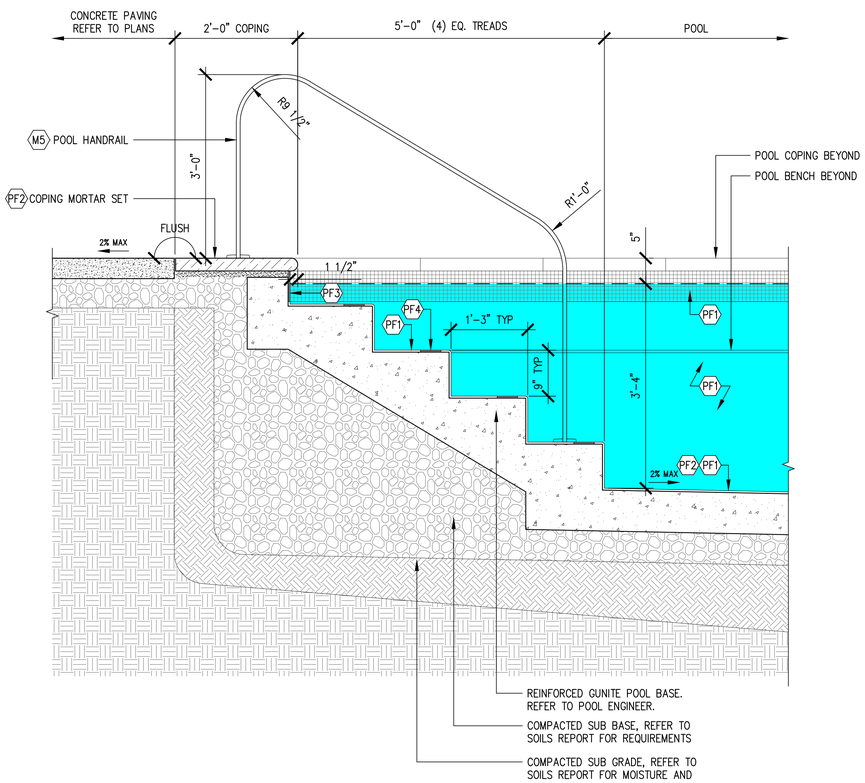
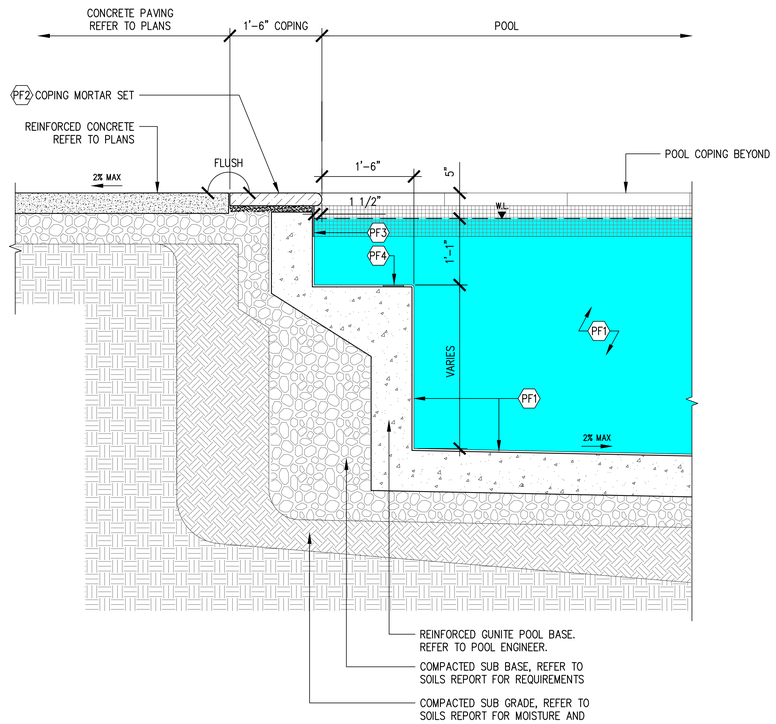
03 POOL AREA FOOT WASHES
1" = 1'-0"

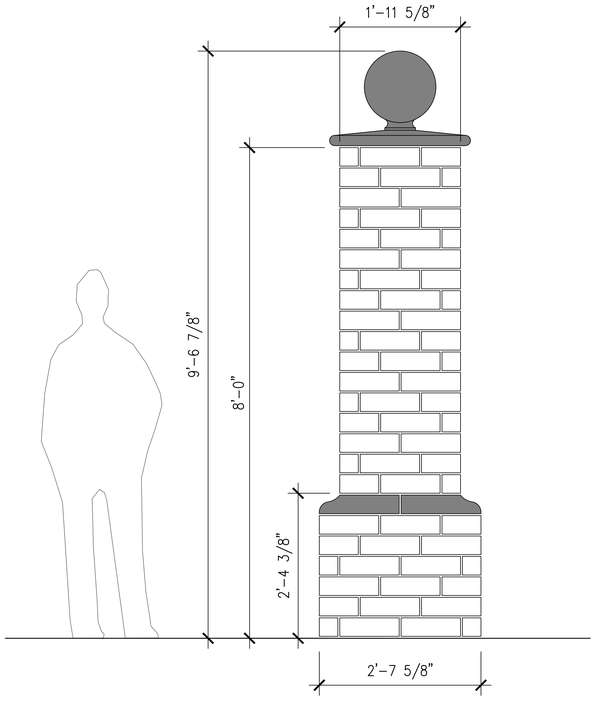


02 POOL STEP AND HANDRAIL DETAIL
1" = 1'-0"

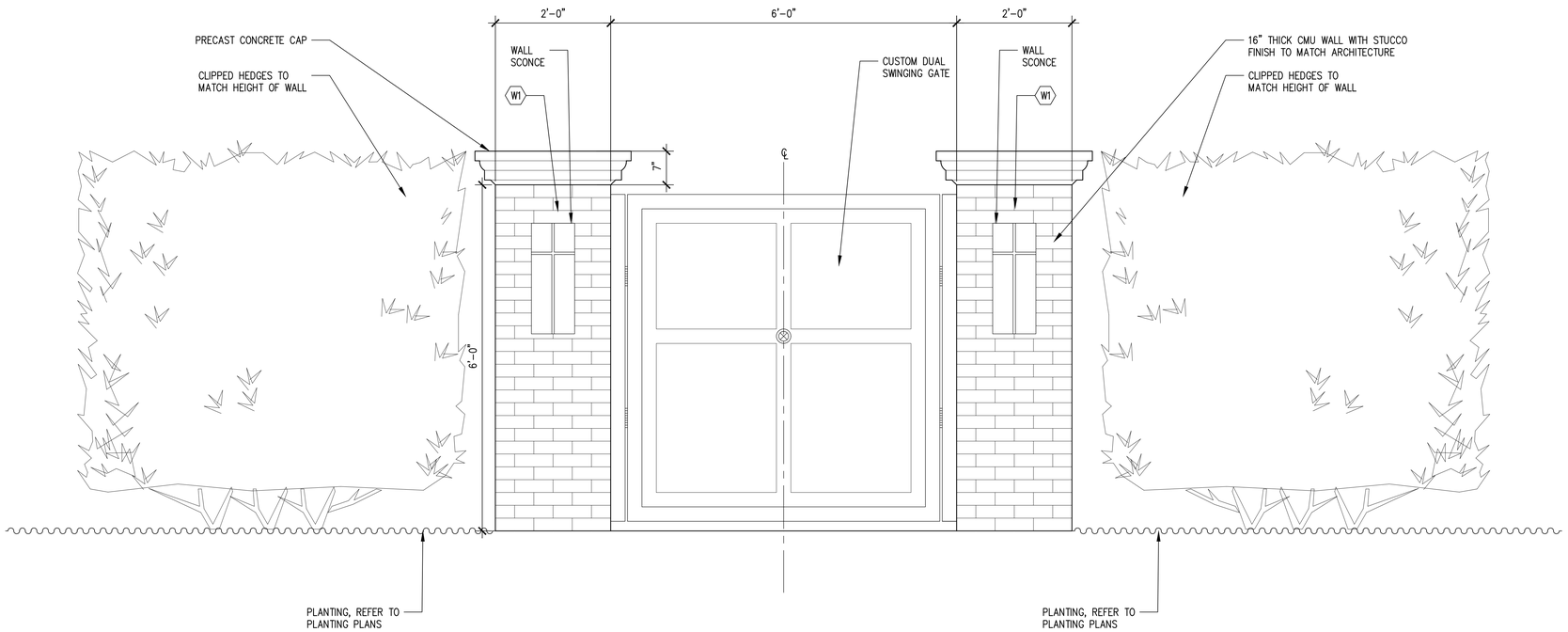
NOTE: REFER TO POOL CONSULTANT DRAWINGS FOR CONSTRUCTION



01 POOL BENCH DETAIL
1" = 1'-0"



02 ENTRY BRICK COLUMN
1" = 1'-0"



01 PEDESTRIAN GATEWAY AT ARRIVAL COURT
1" = 1'-0"

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SITE SECTIONS AND ELEVATIONS

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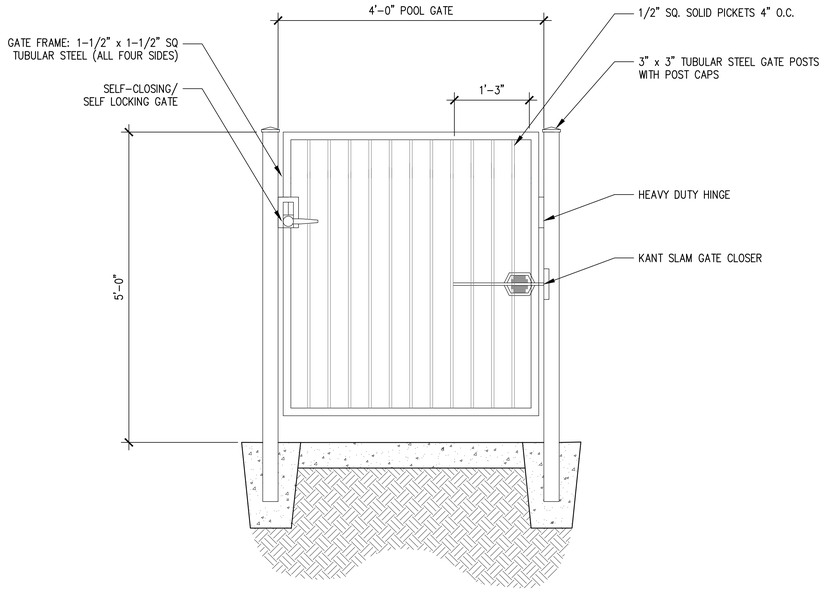
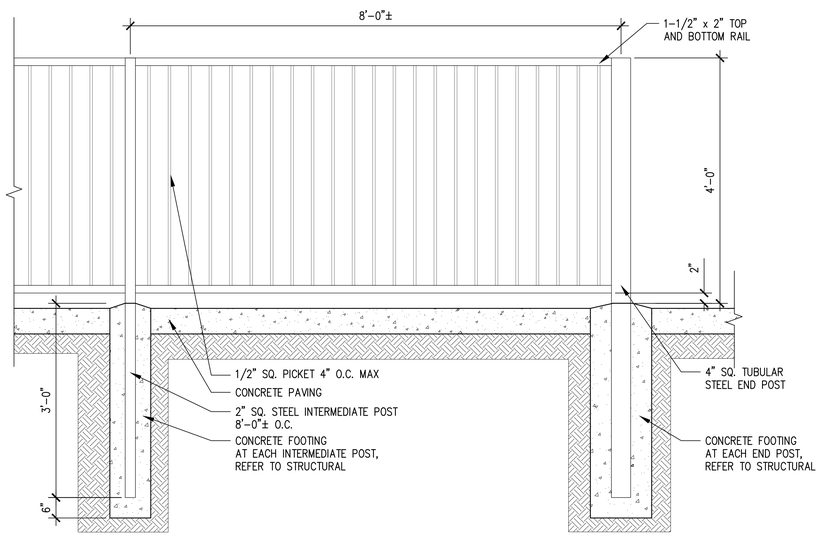


02 TYP. POOL GATE
1" = 1'-0"



01 TYP. POOL FENCE
1" = 1'-0"

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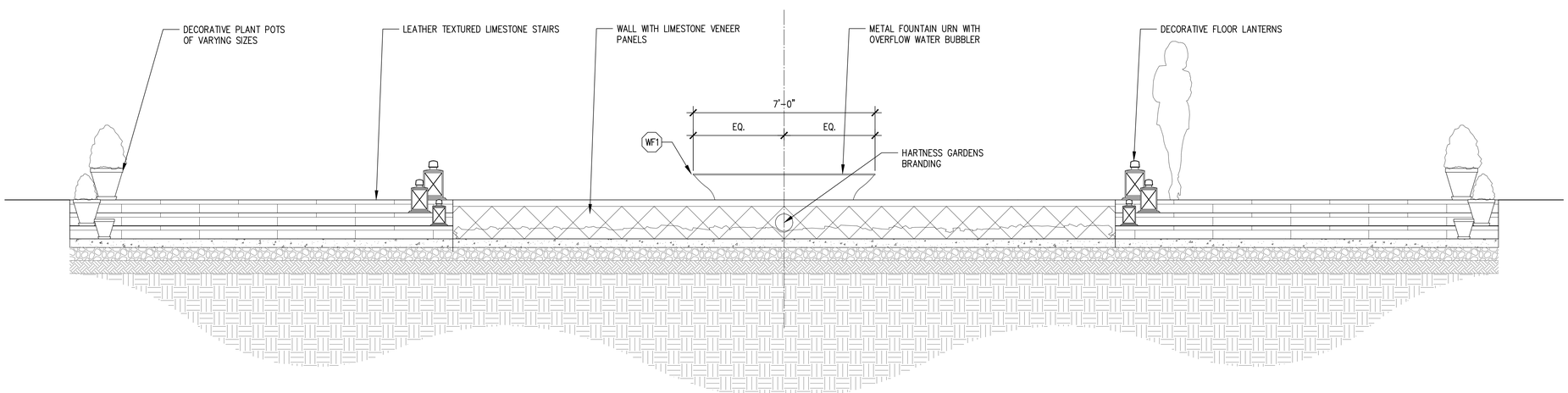

01 HARTNESS GARDENS FOUNTAIN ELEVATION
1/2" = 1'-0"

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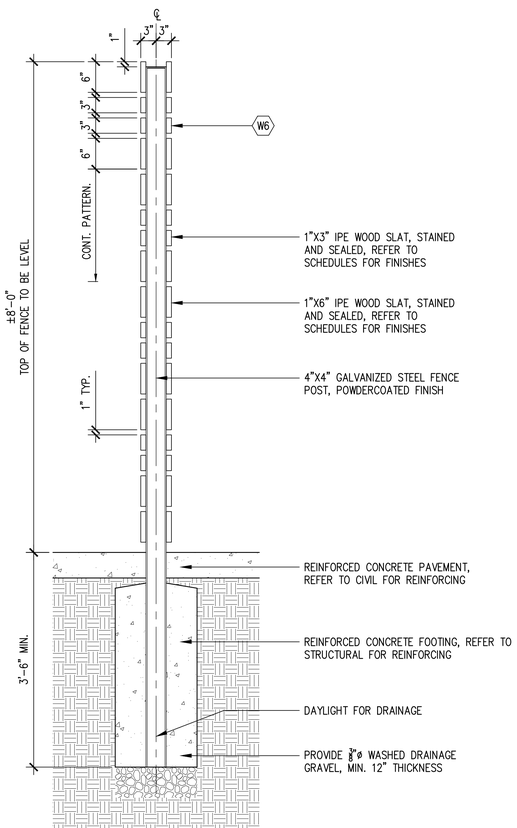
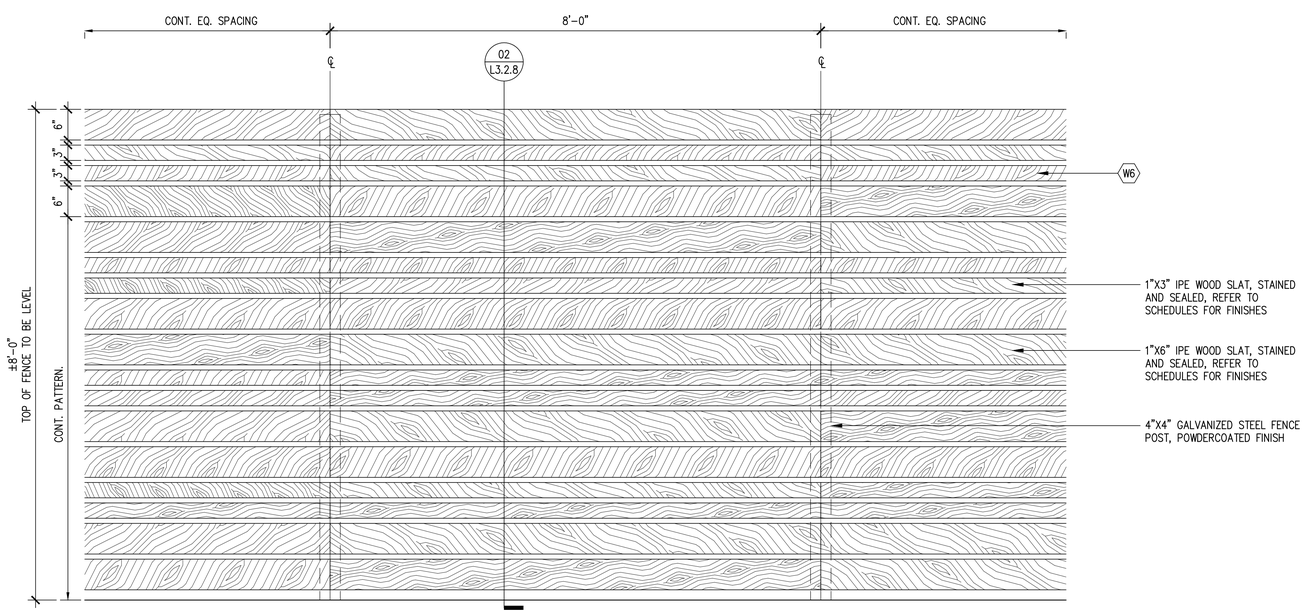


02 POOL-UNIT PATIO IPE SCREEN WALL SECTION AT CONCRETE
1" = 1'-0"



01 POOL-UNIT PATIO IPE SCREEN WALL ELEVATION AT PLANTING
1" = 1'-0"

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SITE SECTIONS AND ELEVATIONS

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SITE LIGHTING SCHEDULE (S)

SYMBOL	KEY	DESCRIPTION	LAMP (S)	MANUFACTURER	BALLAST/DRIVER	VOLTAGE	INSTALLATION	REMARK	DETAIL
	L1	PARKING LOT POST-TOP FIXTURE ON 12' POLE	36w 3000K LEDS INTERGRAL	BEGA 77165-FINISH-K3 12' POLE WITH 3" OD POLE TOP/TENON	INTEGRAL TO FIXTURE	120-277	POLE CONCRETE FOOTING	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L2	PATH LIGHTING BOLLARD	8W 2700K LEDS INTEGRAL	LOUIS POULSEN FINDT BOLLARD GARDEN 30" TALL	TBD	120-277	CONCRETE FOOTING	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L3	LARGE TREE LED MOONLIGHT DOWNLIGHTS	14W 3000K LEDS INTEGRAL	TARGETTI DAS-RP-FL-L2-30-24-1E3 014 TTS010X-TTI010X DELV-XX-124D	REMOTE POWER SUPPLY WITH PHASE DIMMING	120-277/24V	TREE STRAP WITH FIXTURE BRACKETS	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L4	SIGNAGE UPLIIGHT	14W 3000K LEDS INTEGRAL	TARGETTI DAS-RP-MF-LE-30-24-1E3 013-1E3016 DELV-XX-124D	REMOTE POWER SUPPLY WITH PHASE DIMMING	120-277/24V	EARTHSPIKE	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L5A	TREE UPLIGHT	14W 3000K LEDS INTEGRAL	"TARGETTI DAS-RP-FL-L2-30-24-1E3 013-1E3016 DELV-XX-124D"	REMOTE POWER SUPPLY WITH PHASE DIMMING	120-277/24V	EARTHSPIKE	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L5B	LARGE TREE UPLIGHT	38W 3000K LEDS INTEGRAL	"TARGETTI DAM-ND-FL-L2-30-1E3024 -1E3028 "	INTEGRAL TO FIXTURE	120-277	EARTHSPIKE	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L6	INGROUND RECEPTACLE OUTLET ENCLOSURE	–	LEGRAND WIREMOLD OUTDOOR GROUND BOX	N/A	120V	INGRADE	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L7	BOLLARDS	14W 3000K LEDS INTEGRAL	"LOUIS POULSEN FLINDT-B / 43.3 IN / 14W LED/3000K / 120-277V/60HZ / Corten color / POST W/ANCHORAGE UNIT / Dim 0-10v / 10000139073"	INTEGRAL TO FIXTURE	120-277	BOLLARD CONCRETE FOOTING	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L8	SURFACE-MOUNTED UP/DOWN FIXTURE	11W 3000K LEDS INTEGRAL	"BEGA 33591-FINISH-K3"	INTEGRAL TO FIXTURE	120-277	SURFACE-MOUNTED TO COLUMN @ CANOPY WALKWAY	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L9	WET LISTED LINEAR LED TAPELIGHT IN EXTRUSION AND FROSTED LENS AT STEPS	1.5W/FT 2700K LEDS INTEGRAL	"DURALAMP DL-ES-15-0-27-HC-24 P01B-S-PF-300/P01B-A-E C/MC DELV-XX-124D"	REMOTE POWER SUPPLY WITH PHASE DIMMING	120-277/24V	SURFACE-MOUNTED MOUNTING CLIPS TO UNDERSIDE OF STEPS	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	
	L10	LED SURFACE-MOUNTED DOWNLIGHT AT CANOPY	7W 2700K LEDS INTEGRAL	"DESIGNPLAN CP170-2-1-F-K-C PPLT00543"	REMOTE POWER SUPPLY WITH 0-10V DIMMING	120-277/24V	SURFACE-MOUNTED TO CEILING	CONTACT: KANIS GLAEWKETGARN COMPANY: ALA PHONE: 214-658-9000	

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SITE LIGHTING SCHEDULE

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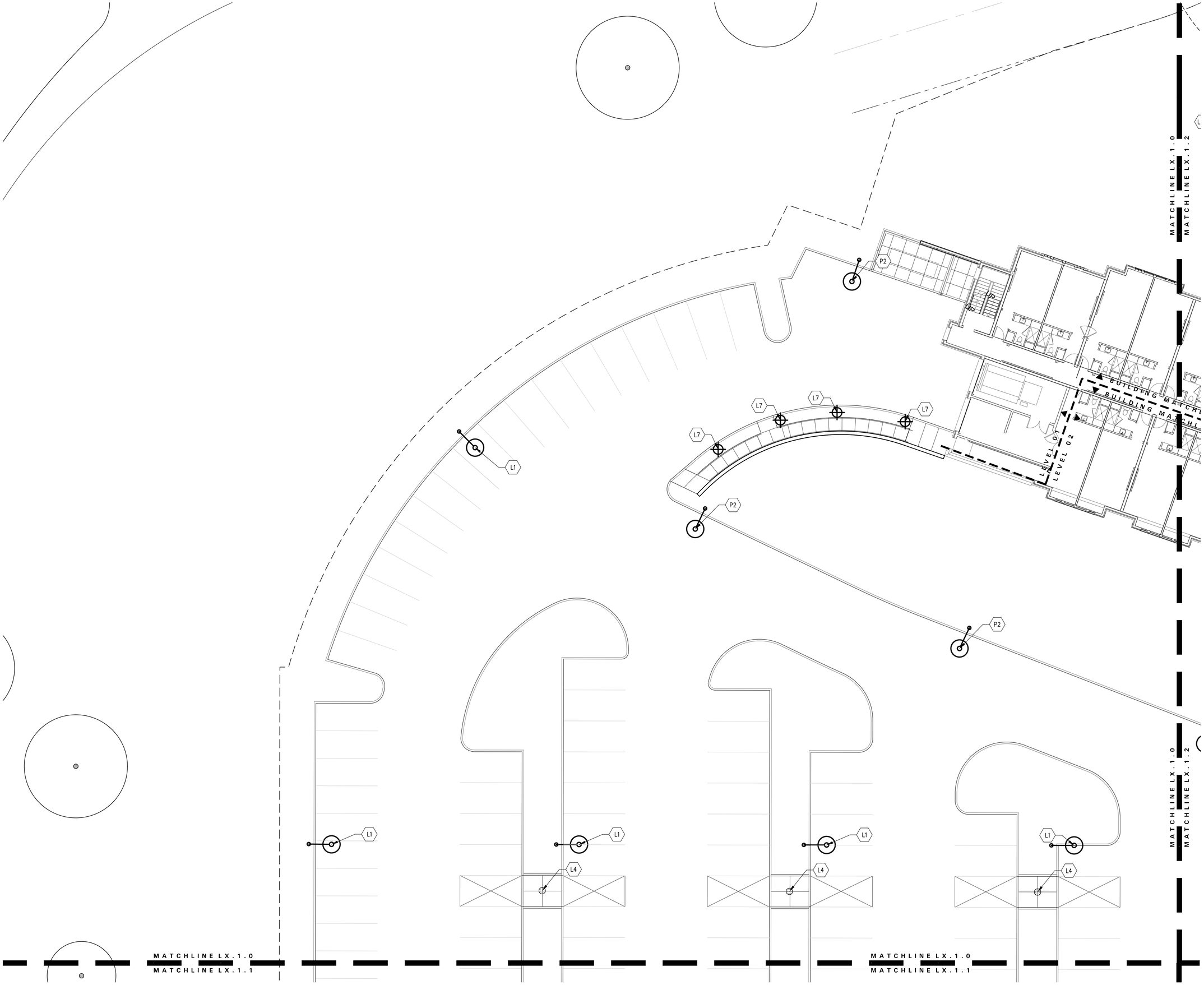

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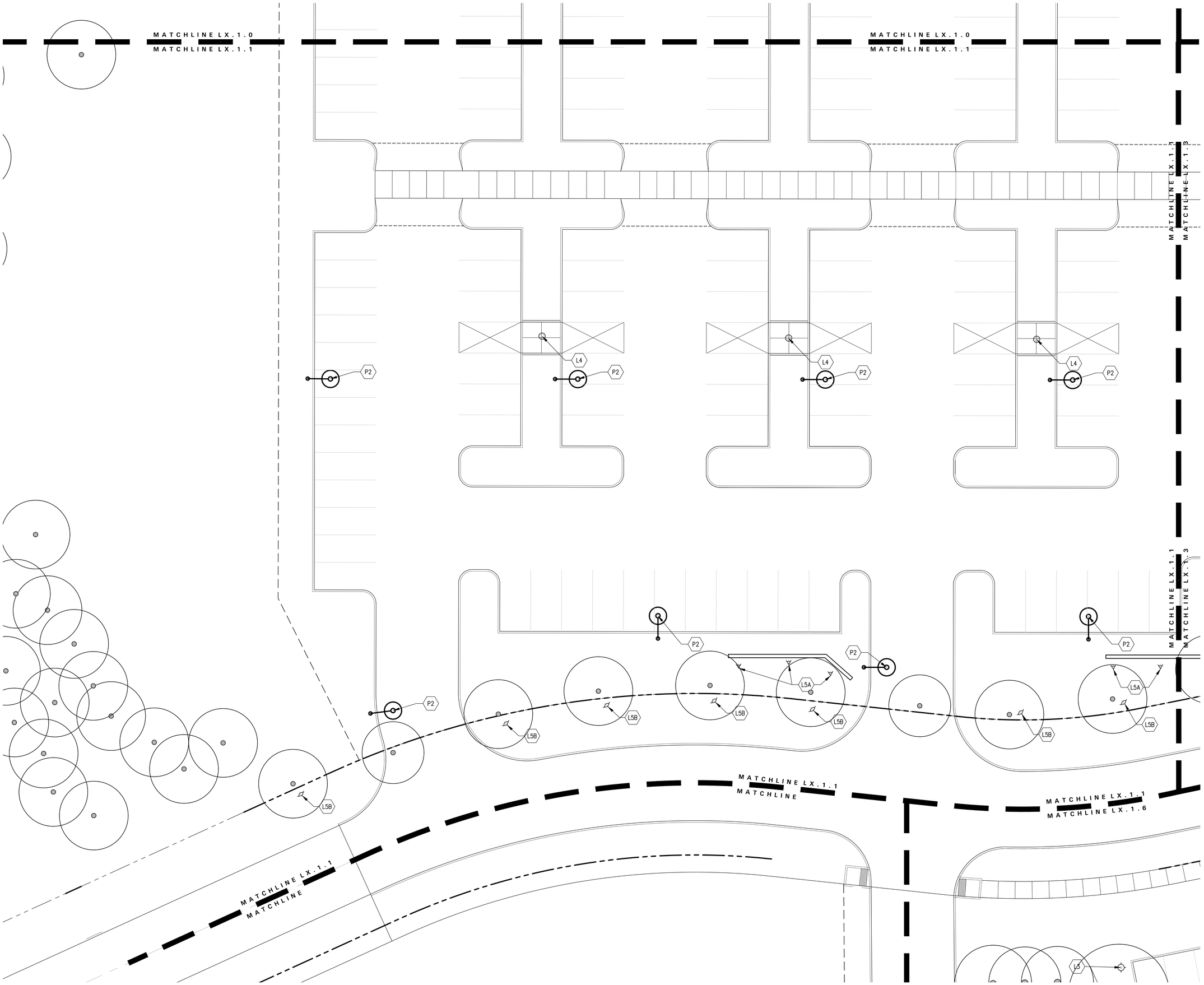

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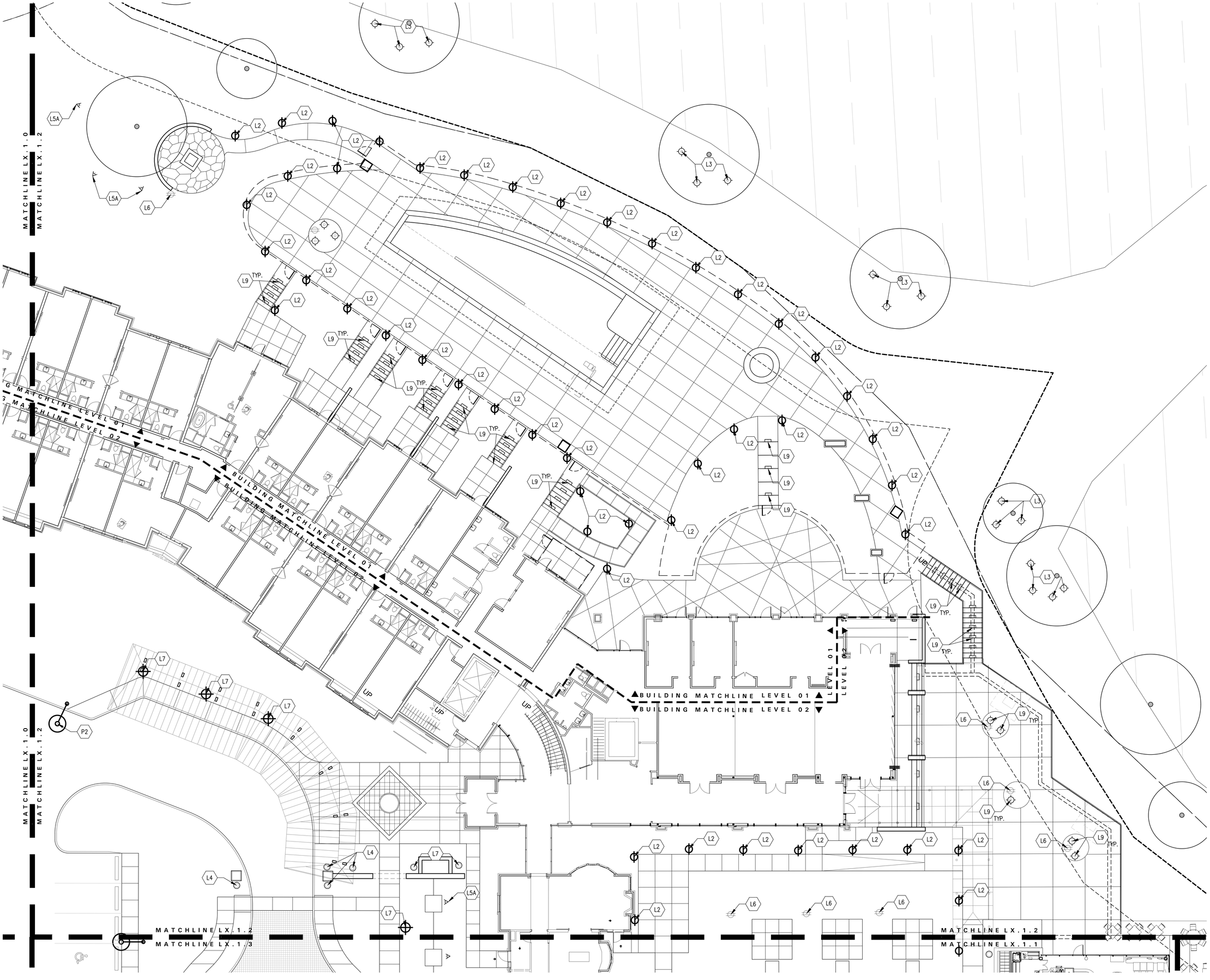

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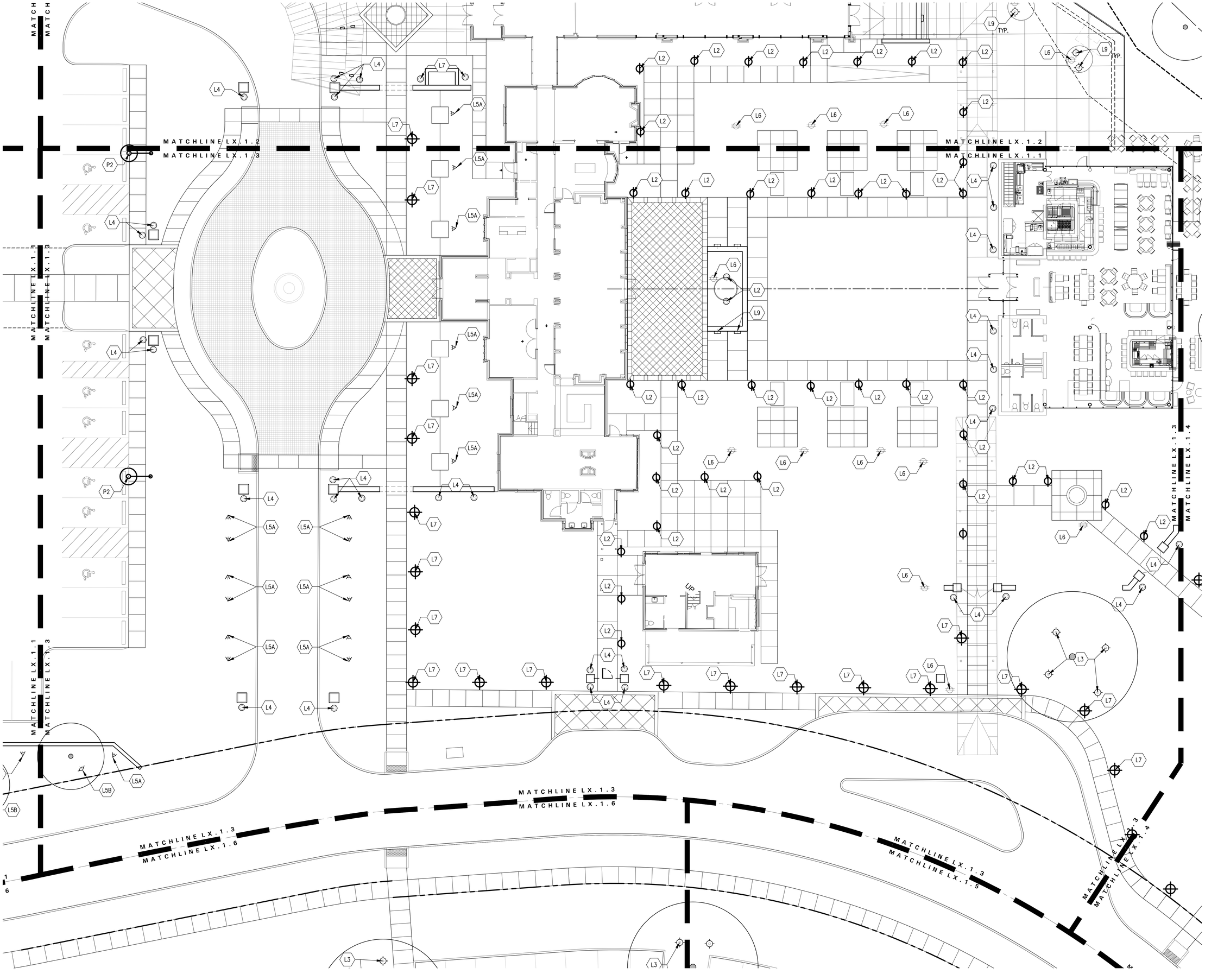

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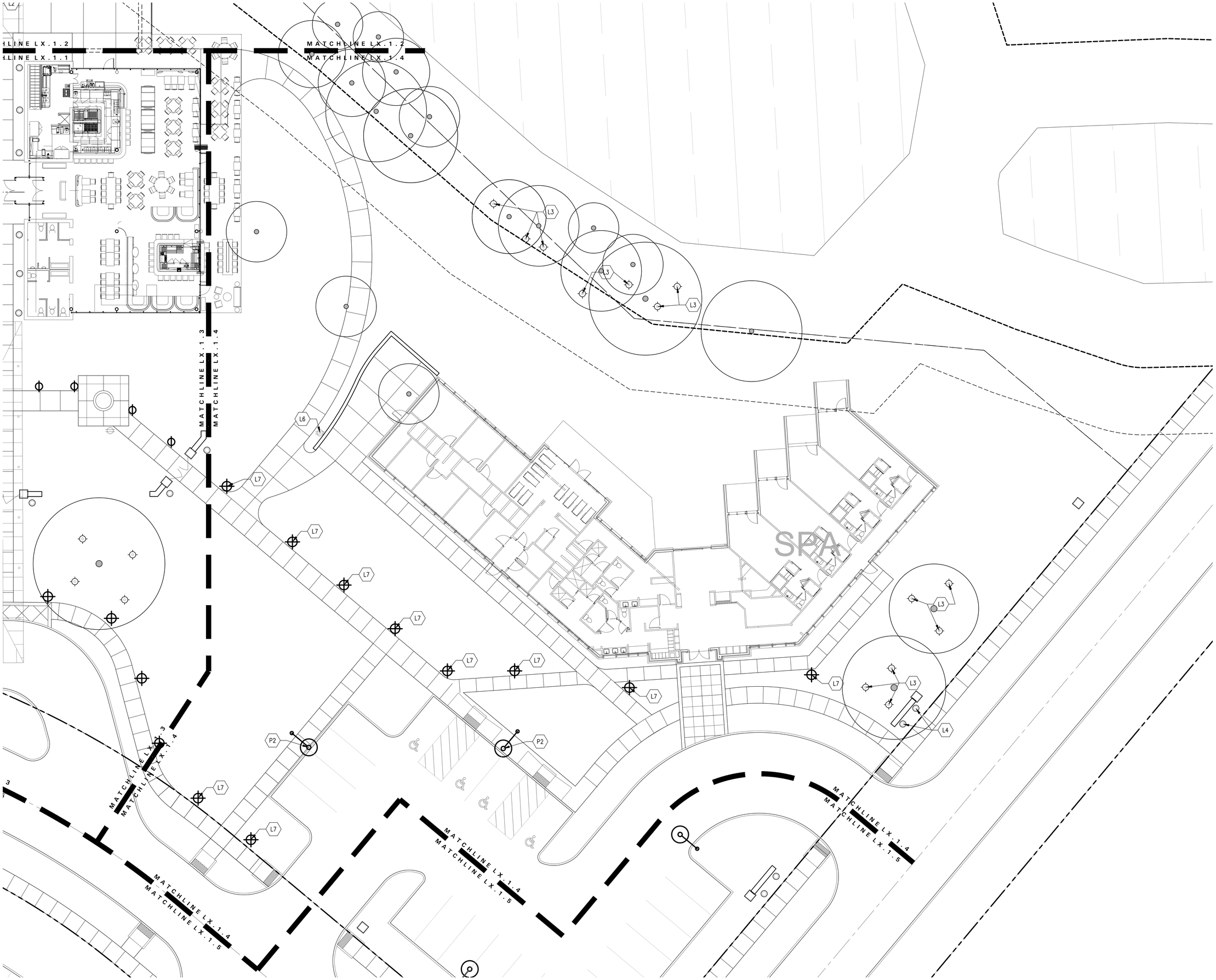

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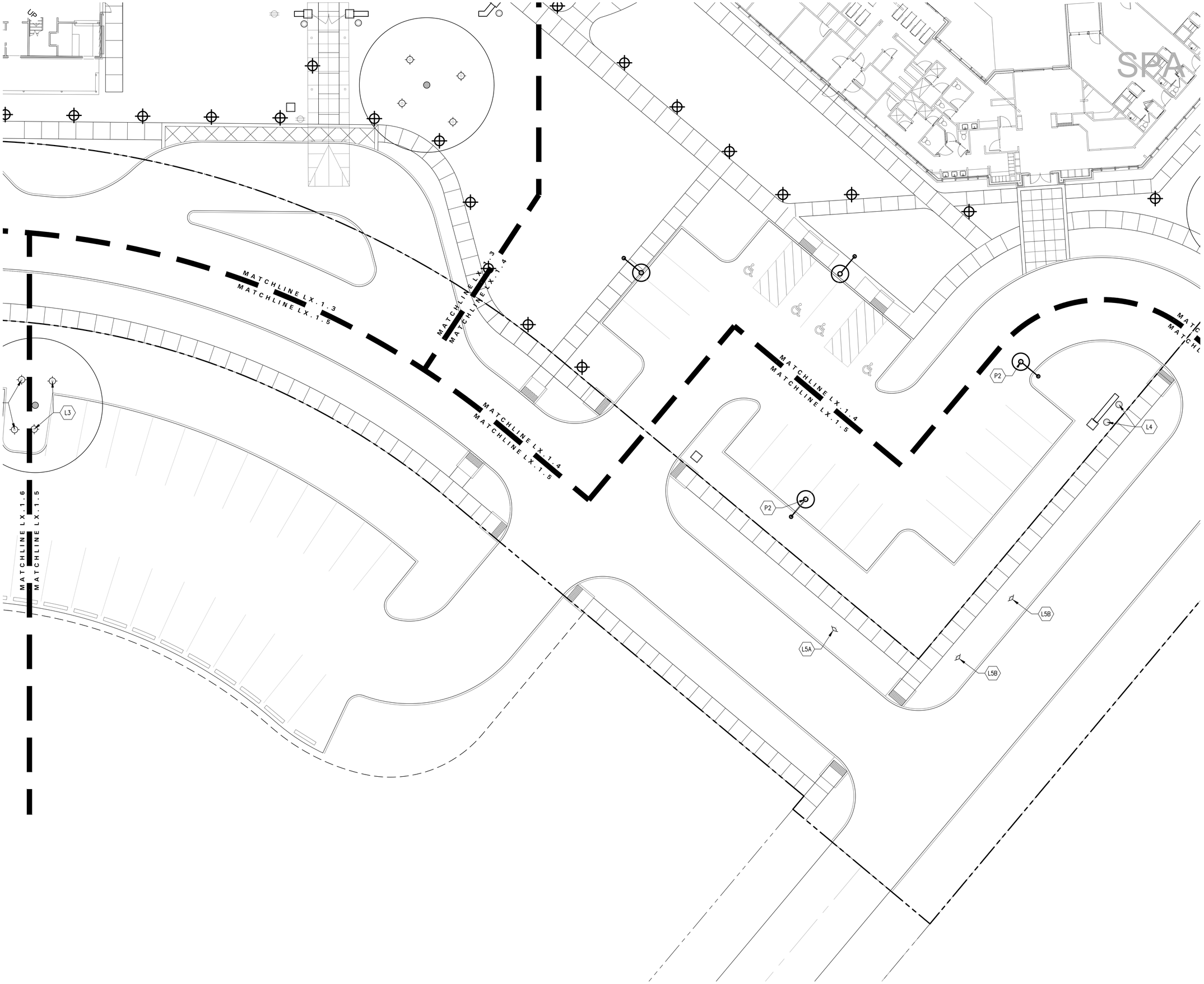

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STRUCTURAL ENGINEER

URBAN STRUCTURE
8140 WALNUT HILL LANE SUITE 905
DALLAS TX 75231
P: 214-295-5775

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Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Scale
0 5' 10'
1" = 10'

North

Drawing Title

SITE LIGHTING PLAN

Drawing Number

L4.1.5

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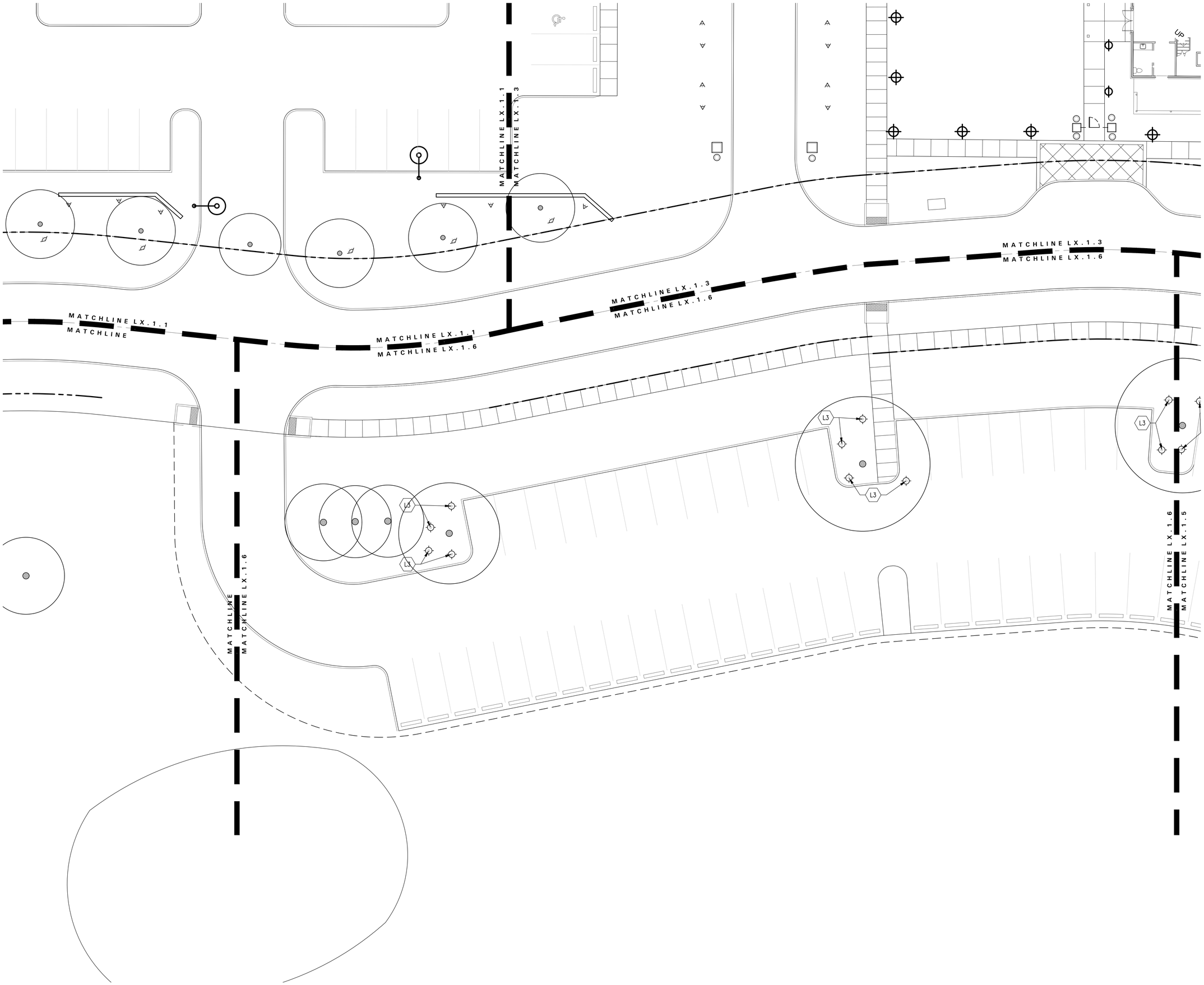

HOTEL HARTNESS

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GREENVILLE, SOUTH CAROLINA

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NOTES:

1. ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE 3M-DBY PERMANENT AND WATERPROOF PER THE SPECIFICATIONS.

2. COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.

3. PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED OR LAWN AREA. REFERENCE NOTE FOR EQUIPMENT LOCATIONS.

4. LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. ALL FITTINGS TO BE SCHEDULE 40 PVC. USE WELD-ON #705 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS PER THE SPECIFICATIONS.

5. ALL MAINLINE TO BE 1-1/2" CLASS 200 PVC. SIZE ALL LATERAL PIPING PER MANUFACTURER'S RECOMMENDATIONS OF NOT EXCEEDING 5 FPS. REFERENCE PIPE SIZE CHART.

6. CONNECT DRIP INDICATOR HEADS TO LATERAL PIPING WITH RAINBIRD 1/2" SPX SWING PIPE, PER DETAIL SHOWN.

7. INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX PER DETAIL SHOWN. CONNECT QUICK COUPLING VALVES TO MAINLINE PIPE WITH LASCO "UNITIZED", O-RING SWING JOINTS PER DETAIL SHOWN, #T722-212. SUPPLY OWNER WITH THREE (3) COUPLER KEYS WITH SWIVEL HOSE BIBB EACH, #33DK-10 AND #SH-0 RESPECTIVELY. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH.

8. PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5') FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR.

9. INSTALL REMOTE CONTROL VALVES AND WIRE SPLICES IN TEN (10") INCH ROUND HIGHLINE VALVE BOXES WITH BLACK LIDS PER DETAIL SHOWN.

10. INSTALL SLEEVES UNDER ALL HARDSCAPE SURFACES SUCH AS ROADS, DRIVES, WALKS, ETC. WHETHER SHOWN OR NOT. SLEEVES SHALL BE CLASS 200 PVC, SIZED AS NOTED ON PLANS AND INSTALLED BY LANDSCAPE IRRIGATION CONTRACTOR.

11. DESIGN PRESSURE IS 55.0 PSI. STATIC PRESSURE IS 65 PSI. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN STATED DO NOT START WORK UNTIL NOTIFIED TO PROCEED BY OWNER.

12. MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE EIGHTEEN (18") INCHES AND MINIMUM HORIZONTAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.

13. STAKE TREE BUBBLER LOCATIONS AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.PROVIDE THE FOLLOWING QUANTITIES OF BUBBLERS PER NEW TREE:
    0.5" - 2" = ONE BUBBLER HEAD
    2.5" - 6" = TWO BUBBLER HEADS
    6.6" - 9" = THREE BUBBLER HEADS
    9.5" - 12" = FOUR BUBBLER HEADS

14. INSTALL REMOTE CONTROL DRIP ZONE KIT VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOXES WITH BLACK LIDS PER DETAIL SHOWN.

15. INSTALL DRIPLINE MINIMUM OF 2" AND A MAXIMUM OF 4" FROM HARDSCAPE SURFACES. STAKE DRIPLINE AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT BEFORE INSTALLATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDATIONS OF 5'-0" PER SECOND IN DRIPLINE.

16. PROVIDE AND INSTALL DISTRIBUTION TUBING, STAKES, EMITTERS, TRANSFER FITTINGS, DIFFUSER BUG CAP, CONTROL ZONE KITS, ETC. NECESSARY FOR PROPER INSTALLATION OF THE BEDS. ALL PVC HEADER PIPING TO BE CLASS 200 PVC SOLVENT WELD PIPE. INSERT ALL RAINBIRD XF DRIPLINE INSERT FITTINGS PER MANUFACTURER'S RECOMMENDATIONS.

17. INSTALL ONE RAINBIRD OPERATION INDICATOR HEAD FOR EACH DRIP ZONE.

18. AIR RELIEF VALVE TO BE RAINBIRD AR VALVE KIT INSTALLED IN A SIX-INCH (6") HIGHLINE ROUND VALVE BOX WITH BLACK LID AND 6" OF GRAVEL SUMP. FLUSH VALVES TO BE RAINBIRD 1/2" LASCO BALL VALVE ON IPS FLEXIBLE PIPE AND 1/2" SCHEDULE 40 FITTINGS INSTALLED IN A SIX-INCH (6") HIGHLINE ROUND VALVE BOX WITH BLACK LID AND 6" OF GRAVEL SUMP.

19. ALL XFS CV DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED BELOW FINISH GRADE APPROXIMATELY 4" TO 6" PER MANUFACTURER'S RECOMMENDATIONS. ALL DRIPLINE TO BE INSTALLED MINIMUM OF 1'-4" AND MAXIMUM OF 1'-8" ROW SPACING UNLESS INSTRUCTED OTHERWISE. L.I.C. IS RESPONSIBLE TO VERIFY THE EXACT EMITTER FLOW, EMITTER SPACING, AND ROW SPACING WITH MANUFACTURER PRIOR TO INSTALLING TO PROVIDE PROPER PRECIPITATION RATE BASED ON PLANT MATERIAL AND SOIL TYPE. TUBING TO BE STAKED WITH RAINBIRD 12 GA. GALVANIZED TIE DOWNS. STAKE EVERY 3'-0" ALONG ENTIRE LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS.

20. INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS OF EXHAUST HEADER. ALLOW FOR APPROXIMATELY ONE (1) AIR RELIEF VALVE AND APPROXIMATELY ONE (1) FLUSH VALVE FOR EACH ZONE.

21. ALL VALVES, QUICK COUPLERS, AND OTHER RELATED COMPONENTS TO BE LOCATED IN PLANTING AREAS ONLY, NOT IN LAWN AREAS.

22. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. CONTRACTOR MUST STAKE DITCHES AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING OR DIGGING.

23. PROVIDE TEMPORARY, ABOVE GROUND IRRIGATION TO ALL DISTURBED AREAS THAT DO NOT HAVE PERMANENT IRRIGATION. MATERIAL AND LABOR NECESSARY TO INSTALL AND OPERATE THE TEMPORARY SYSTEM. TEMPORARY SYSTEM TO BE LEFT IN PLACE UNTIL PLANT MATERIAL IS ESTABLISHED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. SHOULD IT BECOME NECESSARY TO REMOVE AND REPLACE THE TEMPORARY SYSTEM FOR MOWING AND MAINTENANCE OPERATIONS, THE LANDSCAPE IRRIGATION CONTRACTOR SHALL CONSIDER THIS PART OF HIS SCOPE OF WORK. EXACT METHOD OF PROVIDING AND OPERATING THE TEMPORARY SYSTEM WILL BE THE LANDSCAPE IRRIGATION CONTRACTOR'S RESPONSIBILITY. OPERATION OF THE TEMPORARY SYSTEM MUST BE COORDINATED WITH THE PERMANENT SYSTEM TO INSURE PROPER HYDRAULIC OPERATION OF BOTH SYSTEMS. CONTRACTOR IS RESPONSIBLE TO REFERENCE THE LANDSCAPE PLANS FOR THE SCOPE OF THIS WORK.

24. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO INSTALL THE DRIP IRRIGATION SYSTEM ON LEVEL 1 (CONCRETE SLAB AND WOOD DECK) AND LEVEL 4. THIS WORK TO INCLUDE BUT NOT LIMITED TO ANY INSULATION, PENETRATIONS, WATERPROOFING, DRAIN/FLUSH VALVES, ETC. TO ELIMINATE ANY FREEZING. CONTRACTOR TO COORDINATE THIS WORK WITH ALL DISCIPLINES PRIOR TO BIDDING AND INSTALLATION.

25. ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT THEY ARE TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION.

26. A LICENSED IRRIGATOR OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED PER CITY OF DALLAS REQUIREMENTS.

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO,
○	SMALL PLANTER POTS ONE RING	RAINBIRD	LDQ0806 WITH 1/4" BARB TRANSFER FITTINGS LQ DISTRIBUTION TUBING, AND TDS-050 GALVANIZED STAKES, AND DRIP INDICATOR HEAD
◎	LARGE PLANTER POTS TWO RINGS	RAINBIRD	LDQ0806 WITH 1/4" BARB TRANSFER FITTINGS LQ DISTRIBUTION TUBING, AND TDS-050 GALVANIZED STAKES, AND DRIP INDICATOR HEAD
○	BUBBLER HEAD ONE PER TREE	RAINBIRD (30 PSI)	#1402 NOZZLE ON 1/2" FLEX PVC UNLESS OTHERWISE NOTED
⊕	BUBBLER HEAD TWO PER TREE	RAINBIRD (30 PSI)	#1402 NOZZLES ON 1/2" FLEX PVC UNLESS OTHERWISE NOTED
✤	BUBBLER HEAD THREE PER TREE	RAINBIRD (30 PSI)	#1404 NOZZLES ON 1/2" FLEX PVC UNLESS OTHERWISE NOTED
▲	QUICK COUPLING VALVE	RAINBIRD	#33-DNP WITH LASCO BALL VALVE, PURPLE LID READS "RECLAIMED WATER, DO NOT DRINK" IN ENGLISH AND "NO TOME" IN SPANISH.
|○|	REMOTE CONTROL VALVE	RAINBIRD	PEB SERIES WITH PRS-D PRESSURE REGULATOR, REFER TO PLANS FOR SIZE
▬	CONTROLLER	WEATHERMATIC	SL1620 WALLMOUNT CONTROLLER WITH SLW5 WIRELESS WEATHER MONITOR
— —	MAINLINE PIPING	REFER TO SPEC.	CLASS 200 PVC
———	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
|⊕|	REMOTE CONTROL DRIP VALVE	RAINBIRD	XCZ-100-PRB-COM CONTROL ZONE KIT VALVE, REFER TO PLAN FOR SIZE
———	DRIP HEADER PIPING	REFER TO SPEC.	CLASS 200 PVC UNLESS OTHERWISE NOTED
- - - - - -	PLANTING BED DRIPLINE TUBING	RAINBIRD	XFS-06-18 WITH XF INSERT FITTINGS TDS-050 GALVANIZED TUBING STAKES, AND DRIP INDICATOR HEAD
Ⓟ	POINT OF CONNECTION	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓦ	WATER METER	REFER TO SPEC.	PER LOCAL BUILDING CODE
Ⓘ	ISOLATION VALVE	NIBCO	#T-29, REFER TO PLAN FOR SIZE
Ⓨ	WYE STRAINER	FEBCO	#650, REFER TO PLAN FOR SIZE
NN	BACKFLOW PREVENTER	FEBCO	#850BV, REFER TO PLAN FOR SIZE
Ⓜ	MASTER VALVE	RAINBIRD	PEB, REFER TO PLAN FOR SIZE
┌─┬─┐ │ │ │ └─┴─┘	STATION NUMBER VALVE SIZE GPM (APPROX.)		

PIPE SIZE CHART

FLOW/GPM:	PIPE SIZE:
0 - 4.0	1/2"
4.1 - 9.5	3/4"
9.6 - 14.5	1"
14.6 - 27.0	1-1/4"
27.1 - 35.0	1-1/2"
35.1 - 55.0	2"
55.1 - 70.0	2-1/2"

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IRRIGATION NOTES & LEGEND

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L5.0.0

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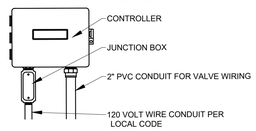
GREENVILLE COUNTY,
GREENVILLE, SOUTH CAROLINA

NOTES:
1. REFER TO MANUFACTURER'S MANUAL FOR MOUNTING INSTRUCTIONS
2. INSTALL WIRING (PER LOCAL CODE)
3. INSTALL CONDUIT W/ SWEEP FITTINGS AND PULL WIRE



WALLMOUNT CONTROLLER

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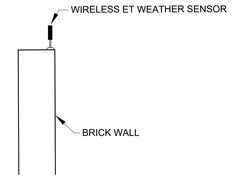

WALLMOUNT SENSOR

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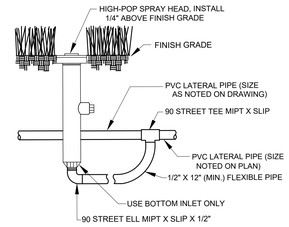

DRIP INDICATOR HEAD

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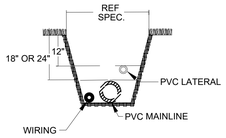
MAINLINE, LATERAL, AND WIRING



1. TAPE & BUNDLE WIRING AT 10'-0" INTERVALS.

TRENCHING DETAIL

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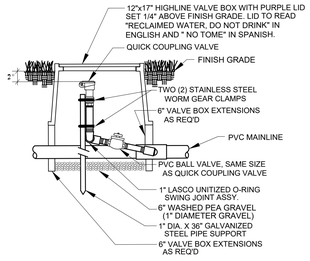

QUICK COUPLING VALVE W/ BALL VALVE

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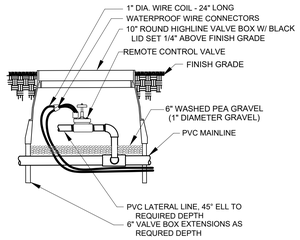

REMOTE CONTROL VALVE

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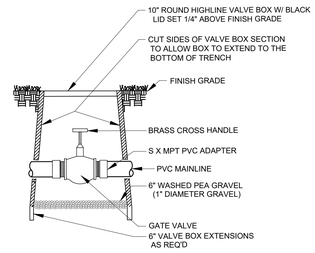

GATE VALVE - 3" AND SMALLER

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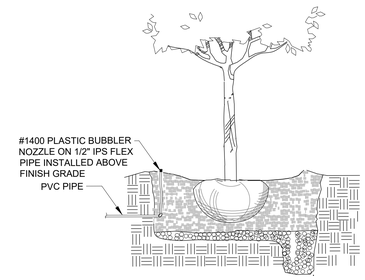

NOTES:
REFER TO LEGEND FOR QUANTITY OF BUBBLERS FOR TREES

TREE BUBBLER

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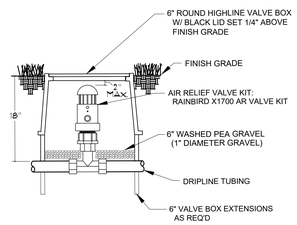

AIR RELIEF VALVE

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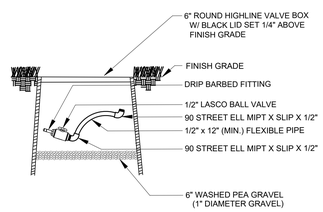

FLUSH VALVE

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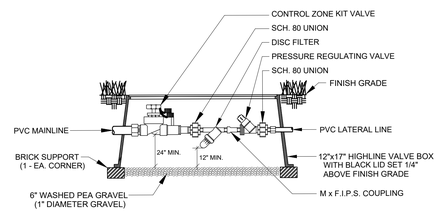

REMOTE CONTROL DRIP ZONE KIT

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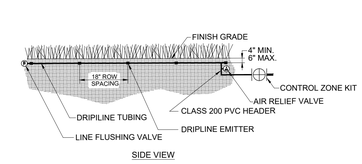

SIDE VIEW

TYPICAL SUBSURFACE DRIPLINE LAYOUT

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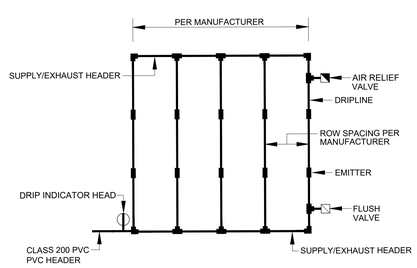

TYPICAL DRIPLINE LAYOUT

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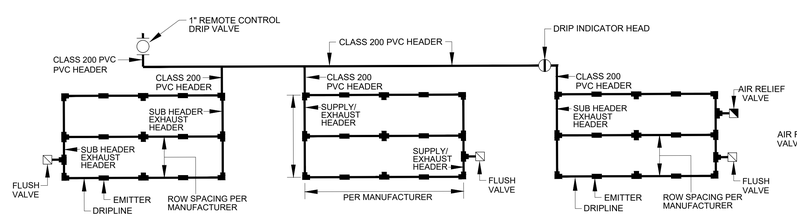

TYPICAL DRIPLINE LAYOUT

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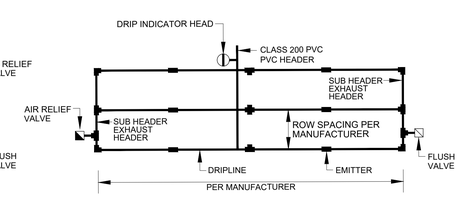

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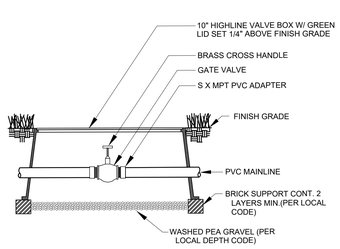

ISOLATION VALVE

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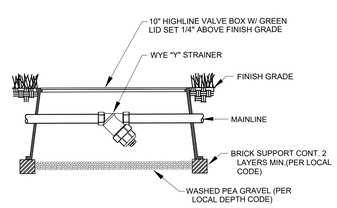

WYE "Y" STRAINER

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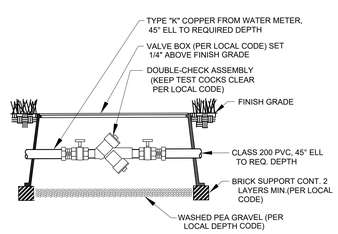

DOUBLE CHECK ASSEMBLY

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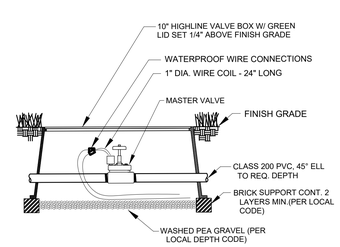

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GREENVILLE COUNTY LANDSCAPE REQUIREMENTS:

ROADSIDE BUFFER LANDSCAPING REQUIREMENTS:

1. AVERAGE PLANTING BUFFER OF 8' IN WIDTH WITH A MIN LANDSCAPE BUFFER OF 5'
   1.1. LANDSCAPE BUFFER SHALL CONTAIN (1) TREE EVERY (60'–0") OF LINEAR ROAD FRONTAGE. SPACING=(1) TREE PER 200'–0"
   1.2. SHRUBS SPACED TO PROVIDED CONTIUOUS EVERGREEN SCREEN WITH IN THREE (3) YEARS OF INSTALLATION.

INTERIOR PARKING LANDSCAPING REQUIREMENTS:

1. INTERIOR PARKING ISLANDS SHALL HAVE A MINIMUM PLANTING AREA OF (8'–0") WIDE BY (18'–0") LONG.
2. IN ADDITION TO REQUIRED TREES AND SHRUBS, PLANTING AREAS SHALL BE GRASSED OR COVERED WITH MULCH
3. ALL PLANTING AREAS SHALL BE PROTECTED FROM VEHICULAR INTRUSION BY THE INSTALLATION OF CURBING, AND OR WHEEL STOPS
4. EACH LANDSCAPE PLANTING AREAS SHALL CONTAIN TREES AND SHRUBS AT THE RATES LISTED BELOW ROUNDED UPWARD TO THE NEXT WHOLE NUMBER
   4.1. ONE (1) TREE PER (15) PARKING SPACES
   4.2. ONE (1) SHRUB PER (5) PARKING SPACES
   4.3. NO PARKING SPACE SHALL BE LOCATED FARTHER THAN (90'–0") FROM THE TRUNK OF THE SHADE STRUCTURE.

GENERAL PLANTING NOTES:

1. VERIFY LOCATIONS OF ALL PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SCOPES AND UTILITIES. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.

2. AGRONOMIC SOIL TESTING TO OCCUR ON SITE AT LOCATIONS, PER SPECIFICATION SECTIONS 32 91 13. PROVIDE FOUR (4) TEST SAMPLES BASED ON SOIL TAKEN FROM A MINIMUM OF FOUR AREAS WITHIN SITE AT GENERALLY EQUAL SPACING ON SITE AND IN LOCATIONS APPROVED BY LANDSCAPE ARCHITECT.

3. SAMPLES SHALL THEN BE TESTED AND ANALYZED FOR AGRICULTURAL SUITABILITY AND FERTILITY BY ACCREDITED SOIL TESTING LABORATORY PER SPECIFICATIONS. ANALYSIS SHALL INCLUDE REVIEW AND COORDINATION WITH SPECIFICATIONS AND RECOMMENDATIONS FOR SOIL PREPARATION AND BACKFILL MIX. SUBMIT SOILS ANALYSES TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO SOIL PREPARATION. THIS REQUIREMENT APPLIES TO ALL SOILS AND CONDITIONS WITHIN THIS PROJECT.
4.
5. FINAL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO PLANTING.

6. FINISH GRADES (INCLUDES SOD THICKNESS) OF ALL SHRUB AREAS SHALL BE (2 1/2") BELOW ADJACENT CURB OR PAVEMENT. INSTALLED MULCH (2" DEPTH) SHALL BE 1/2" BELOW ADJACENT PAVEMENT.

7. FINISH GRADES OF ALL TURF AREAS SHALL BE 1/2" BELOW ADJACENT CURB OR PAVEMENT, (UNLESS OTHERWISE NOTED). TOPSOIL SHALL BE A MINIMUM OF 8 INCHES IN DEPTH OVER ALL NON–HARDSCAPE AREAS PER SPECIFICATIONS AND PLACED SUCH THAT TOP ELEVATION OF TOPSOIL IS ELEVATION OF FINISHED GRADE. TOPSOIL SHALL CONFORM TO SPECIFICATIONS, IMPORT SOIL SHALL BE SIMILAR TO THE AREA'S EXISTING TOPSOIL, REFER TO SPECIFICATIONS. ON SITE TOPSOIL FROM STRIPPING OPERATIONS SHALL BE USED ON SITE PRIOR TO OFF SITE TOPSOIL USE. TESTING OF ON SITE TOPSOIL TO OCCUR PER SPECIFICATIONS ANDAMENDMENTS SHALL BE PROVIDED PER RESULTS OF TESTING. OFF SITE TOPSOILS SHALL BE TESTED PER SPECIFICATION AND AMENDED PER RECOMMENDATIONS FROM TESTING AGENT AND HORTICULTURIST. REFER TO SPECIFICATIONS FOR SOIL AMENDMENTS AND DEPTHS.
8. ALL PLANTING BEDS SHALL RECEIVE REQUIRED BED PREPARATIONS ADDED TO TOPSOIL PER SOIL ANALYSIS RECOMMENDATIONS AND PER SPECIFICATIONS.

9. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING, REMOVAL OF MISCELLANEOUS DEBRIS AND ANY ADDITIONAL FILL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING IN ALL AREAS.

10. LANDSCAPE AND OPEN AREAS SHALL BE KEPT FREE OF TRASH, LITTER AND WEEDS AT ALL TIMES DURING CONSTRUCTION.

11. PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN EACH SPECIES, PLANT TYPE AND SIZE DESIGNATED.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGE'S. QUANTITIES, IF PROVIDED ON THESE DOCUMENTS THEY ARE FOR OWNER OR MUNICIPALITY INFORMATION ONLY. ALL PLANT QUANTITIES WITHIN THIS DOCUMENT SET ARE FOR INFORMATION ONLY. PLANT SPACING IS AS INDICATED ON 'PLANT SCHEDULE' UNLESS OTHERWISE NOTED. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE FULL COVERAGE IN ALL PLANTING AREAS AS SPECIFIED IN THE PLANT SCHEDULE REMARKS.

12 ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION, AND MUST BE REPLACED WITH PLANT MATERIAL OF SIMILAR VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.

13. TREE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL STAKE OUT ALL TREE LOCATIONS IN FIELD USING COLORED STAKES FOR EACH DIFFERENT TREE SPECIES FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST TREES TO FINAL LOCATION IN FIELD.

14. SHRUB, GROUNDCOVER & SEASONAL COLOR BED LAYOUTS SHALL BE STAKED BY CONTRACTOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO EXCAVATION OR EDGE SETTING. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANT BED LAYOUTS TO EXACT LOCATION IN FIELD.

15. ALL TREES TO BE PLANTED A MINIMUM OF (10'–0") FEET FROM FACE OF BUILDING AND (5'–0") FEET FROM CURBS OR PAVEMENT EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT. ALL TREES TO BE PLANTED A MINIMUM (5'–0") FROM ALL UTILITY LINES EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT.

17. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS ALL TREES, SHRUBS AND VINES AS NOTED IN THE DRAWINGS.

18. TREES PLANTED ON A SLOPE SHALL HAVE THE SOIL STAIN AT THE AVERAGE GRADE OF SLOPE.

19. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT.

20. HARDWOOD MULCH SHALL BE USED IN ALL PLANTED AREAS EXCEPT HYDROSEEDED OR LAWN AREAS. ALL AREAS ARE TO BE MULCHED USING SHREDDED HARDWOOD MULCH AS NOTED IN DETAILS AND SPECIFICATIONS. PROVIDE A (2") LAYER OF MULCH COVER (PER SPECIFICATIONS) AT ALL SHRUB AND GROUND COVER AREAS (UNLESS NOTED OTHERWISE).

TREES

SYMBOL	ABBREVIATION	COMMON NAME	BOTANICAL NAME	CALIPER	SIZE	REMARKS
	ACE SAC	'LEGACY' SUGAR MAPLE	ACER SACCHARUM 'LEGACY'	5"–5.5"	16'–18' HEIGHT 7'–9' SPREAD	FULL, MATCHED CHARACTER IN FORM AND CANOPY, SINGLE TRUNK TRUE CENTRAL LEADER, 6' CLEAR TRUNK
	ILE OPA	AMERICAN HOLLY	ILEX OPACA	N/A	14'–16' HEIGHT 7'–9' SPREAD	
	QUE VIR	LIVE OAK	QUERCUS VIRGINIANA	10"	26'–30' HEIGHT 16'–20' SPREAD	FULL, MATCHED CHARACTER IN FORM AND CANOPY, SINGLE TRUNK TRUE CENTRAL LEADER, –SPECIMEN–
	MAG BBB	SOUTHERN MAGNOLIA 'BROWN BEAUTY'	MAGNOLIA GRANDIFLORA 'BRACKENS BEAUTY'	N/A	16'–18' HEIGHT 6'–8' SPREAD	FULL TO BASE. UNIFORM CANOPY AND MATCHED. SINGLE TRUNK FULL CANOPY
	MAG GEM	SOUTHERN MAGNOLIA 'LITTLE GEM'	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	30 GAL	6'–8' HEIGHT 3'–4' SPREAD	FULL TO BASE. UNIFORM CANOPY AND MATCHED. SINGLE TRUNK FULL CANOPY 4' O.C.
	TAX DIS	BALD CYPRESS	TAXODIUM DISTICHUM	6"	16'–18' HEIGHT 7'–9' SPREAD	FULL, MATCHED CHARACTER IN FORM AND CANOPY, SINGLE TRUNK TRUE CENTRAL LEADER, 6' CLEAR TRUNK
	LIR TUL	TULIP POPLAR	LIRIODENDRON TULIPIFERA	5"	16'–18' HEIGHT 8'–10' SPREAD	FULL, MATCHED CHARACTER IN FORM AND CANOPY, SINGLE TRUNK TRUE CENTRAL LEADER, 6' CLEAR TRUNK
	QUE RUB	RED OAK	QUERCUS RUBRA	5'–5.5"	16'–18' HEIGHT 7'–9' SPREAD	FULL, MATCHED CHARACTER IN FORM AND CANOPY, SINGLE TRUNK TRUE CENTRAL LEADER, 6' CLEAR TRUNK
	COR FLO	FLOWERING DOGWOOD	CORNUS FLORIDA	2"	7'–9' HEIGHT 4'–5' SPREAD	FULL, EVEN AND MATCHED CHARACTER AND CANOPY SINGLE, CENTRAL, STRAIGHT LEADER
	JUN VIR	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	N/A	8'–10' HEIGHT 3'–4' SPREAD	FULL TO BASE. UNIFORM CANOPY AND MATCHED. SINGLE TRUNK FULL CANOPY
	CUP LEY	LEYLAND CYPRESS	CUPRESSOCYPARIS LEYLANDII	N/A	8'–10' HEIGHT 3'–4' SPREAD	FULL TO BASE. UNIFORM CANOPY AND MATCHED. SINGLE TRUNK FULL CANOPY
	LIQ STY	SLENDER SILHOUETTE SWEETGUM	LIQUIDAMBAR STYRACIFLUA 'SLENDER SILHOUETTE'	5"	16'–18' HEIGHT 3'–4' SPREAD	FULL, EVEN AND MATCHED CHARACTER AND CANOPY SINGLE, CENTRAL, STRAIGHT LEADER

SHRUBS

SYMBOL	ABBREVIATION	COMMON NAME	BOTANICAL NAME	CONTAINER	SIZE	REMARKS
	ILE COR	'NEEDLE POINT' CHINESE HOLLY	ILEX CORNUTA 'NEEDLEPOINT'	5 GAL. MIN	24"MIN HEIGHT 24"–28" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 42" O.C
	ILE GLA	INKBERRY HOLLY	ILEX GLABRA	5 GAL. MIN	24"MIN HEIGHT 24"–28" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. FULL TO BASE 30" O.C
	RHO MAX	WILD RHODODENDRON	RHODODENDRON MAXIMUM	5 GAL. MIN	24"MIN HEIGHT 24"–28" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 42" O.C
	HYD QUE	OAKLEAF HYDRANGEA	HYDRANGEA QUERCIFOLIA	5 GAL. MIN	24"MIN HEIGHT 24"–28" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 42" O.C
	BUX MIC	JAPANESE BOXWOOD	BUXUX MICROPHYLLA	5 GAL. MIN	24"MIN HEIGHT 24"–28" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 42" O.C

GROUND COVER

SYMBOL	ABBREVIATION	COMMON NAME	BOTANICAL NAME	CONTAINER	SIZE	REMARKS
	PHL DIV	BLUE WOOLAND PHLOX	PHLOX DIVARACATA	1 GAL.	8"–10" HEIGHT 12"–16" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 18" O.C.
	TRA JAS	CONFEDERATE/STAR JASMINE	TRACHELOSPERMUM JASMINOIDES	4" POT	6"' HEIGHT 10"–15" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. NOT ROOT BOUND 8" O.C.
	VIN MIN	VINCA MINOR PERIWINKLE	VINCA MINOR	4" POT	2'–3' HEIGHT 1'–1.5' SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. NOT ROOT BOUND 8" O.C.
	IRI CRI	CRESTID IRIS	IRIS CRISTATA	1 GAL.	18"–20" HEIGHT 8"–10" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 12" O.C.

FERNS/GRASSES

SYMBOL	ABBREVIATION	COMMON NAME	BOTANICAL NAME	CONTAINER	SIZE	REMARKS
	OSM REG	ROYAL FERN	OSMUNDA REGALIS	1 GAL	16"–20" HEIGHT 12"–15" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 18" O.C.
	ATH FIL	SOUTHERN LADY FERN	ATHYRIUM FILIX–FEMINA	1 GAL	16"–20" HEIGHT 12"–15" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 18" O.C.
	CHA LAT	INLAND SEA OATS	CHASMANTHUM LATIFOLIA	1 GAL	16"–20" HEIGHT 12"–15" SPREAD	FULL, MATURE, MATCHING IN FORM AND CHARACTER, WELL ROOTED. 18" O.C.

EXISTING TREE SURVEY LEGEND

- EXISTING TREE
- EXISTING TREE – CONIFEROUS
- EXISTING TREE – TRANSPLANTED
- EXISTING VEGETATION OR PRESERVED AREAS (INCLUDING TREES)

NOTE: REFER TO PLANTING SCHEDULE FOR PROPOSED PLANTING IDENTIFICATION SYMBOLS

PLANT QUANTITY REFERENCE CHART:

QUANTITY FORMULA BASED ON SPACING TYPE		EXAMPLE (100 SQ FT. AREA @ 24" O.C. SPACING)
SQUARE SPACING:	AREA (IN SQ FT.) / SPACING² (IN FEET)	100 / 2² = 25 QTY
TRIANGULAR SPACING:	AREA (IN SQ FT.)/0.86 / SPACING² (IN FEET)	100/0.86 / 2² = 29 QTY

NOTE:
DEDUCT THE OFFSET DIMENSION SHOWN TO THE FIRST SHRUB WHEN CALCULATING SQUARE FOOT OF COVERAGE FOR THE AREA.

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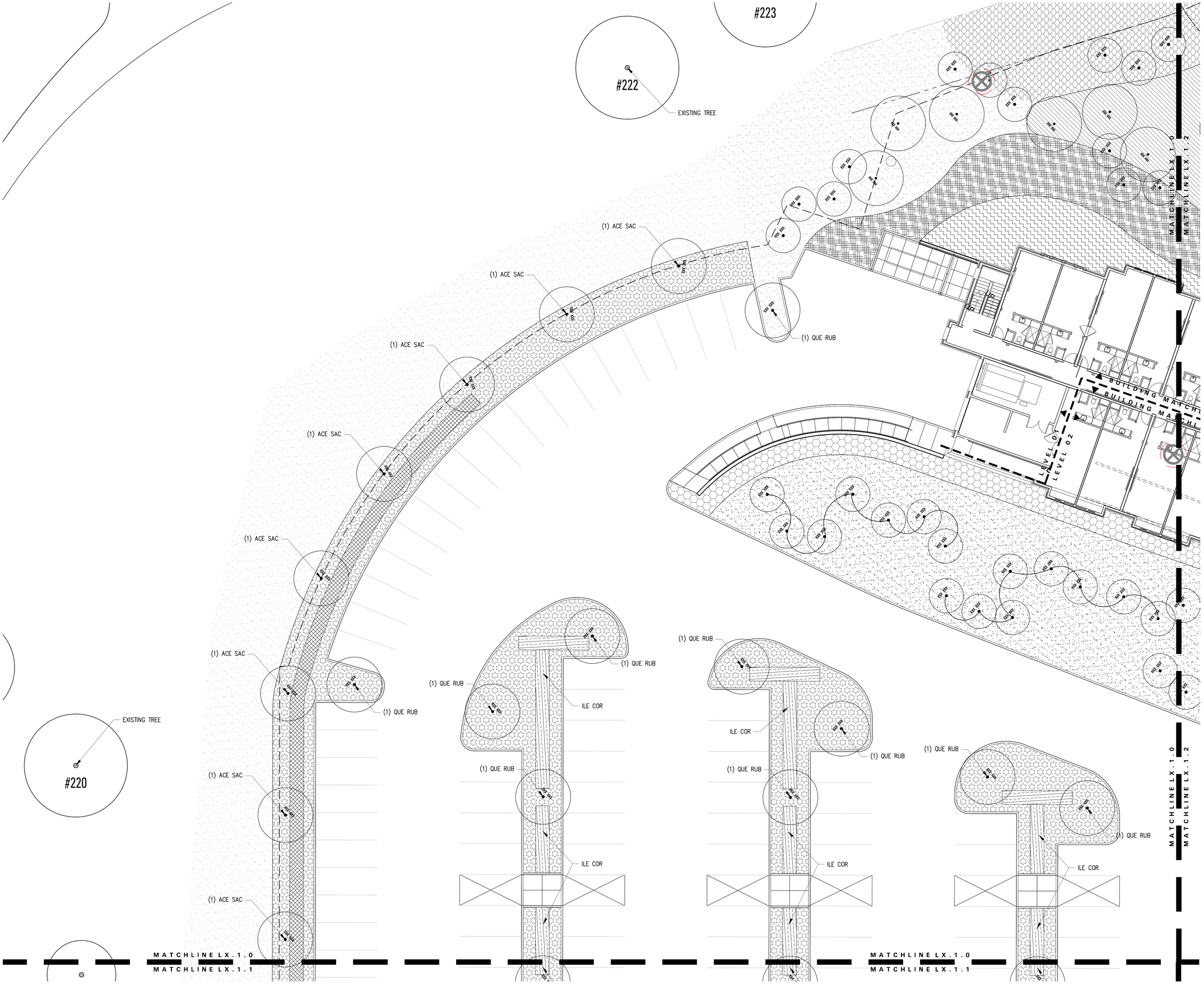

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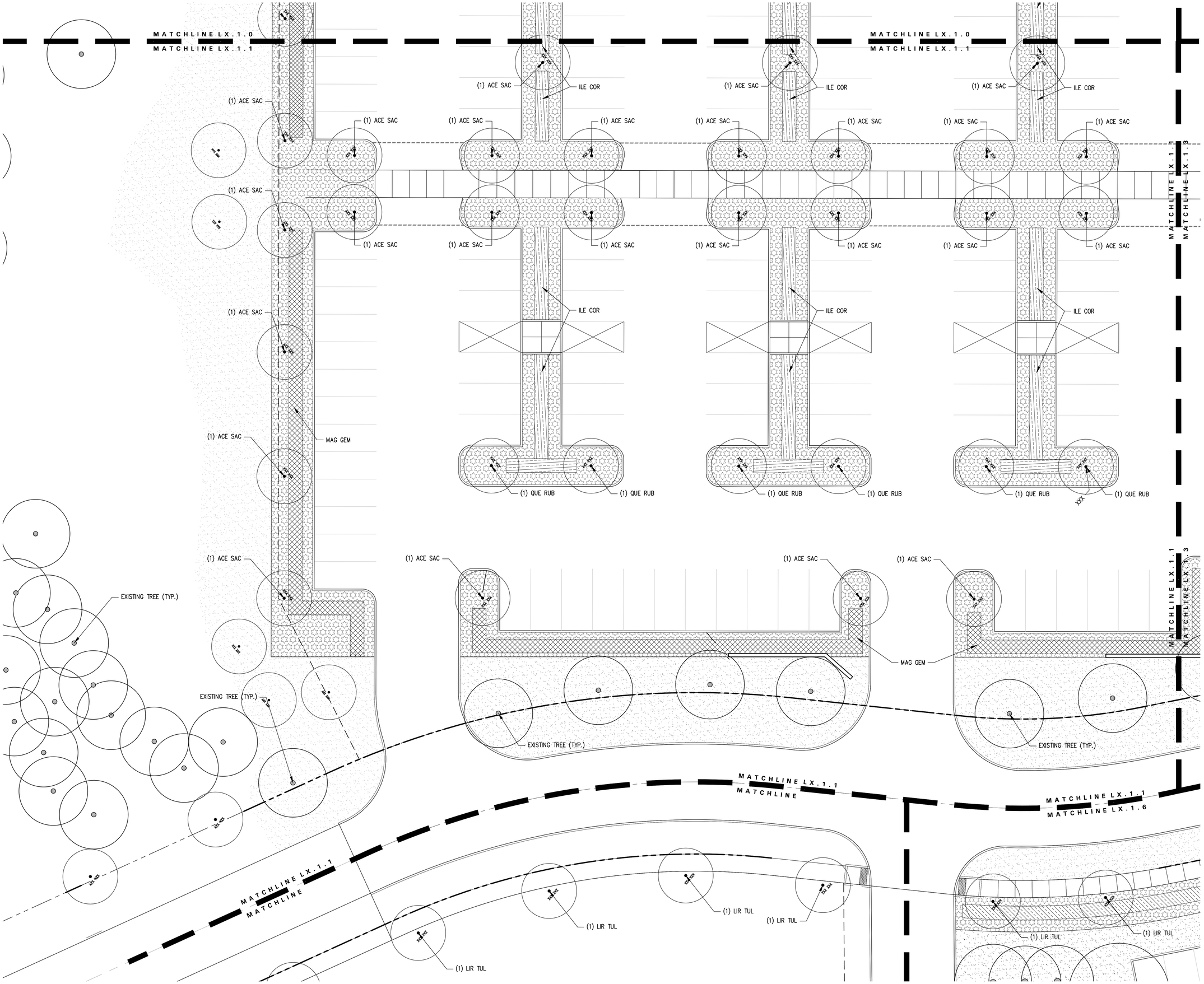

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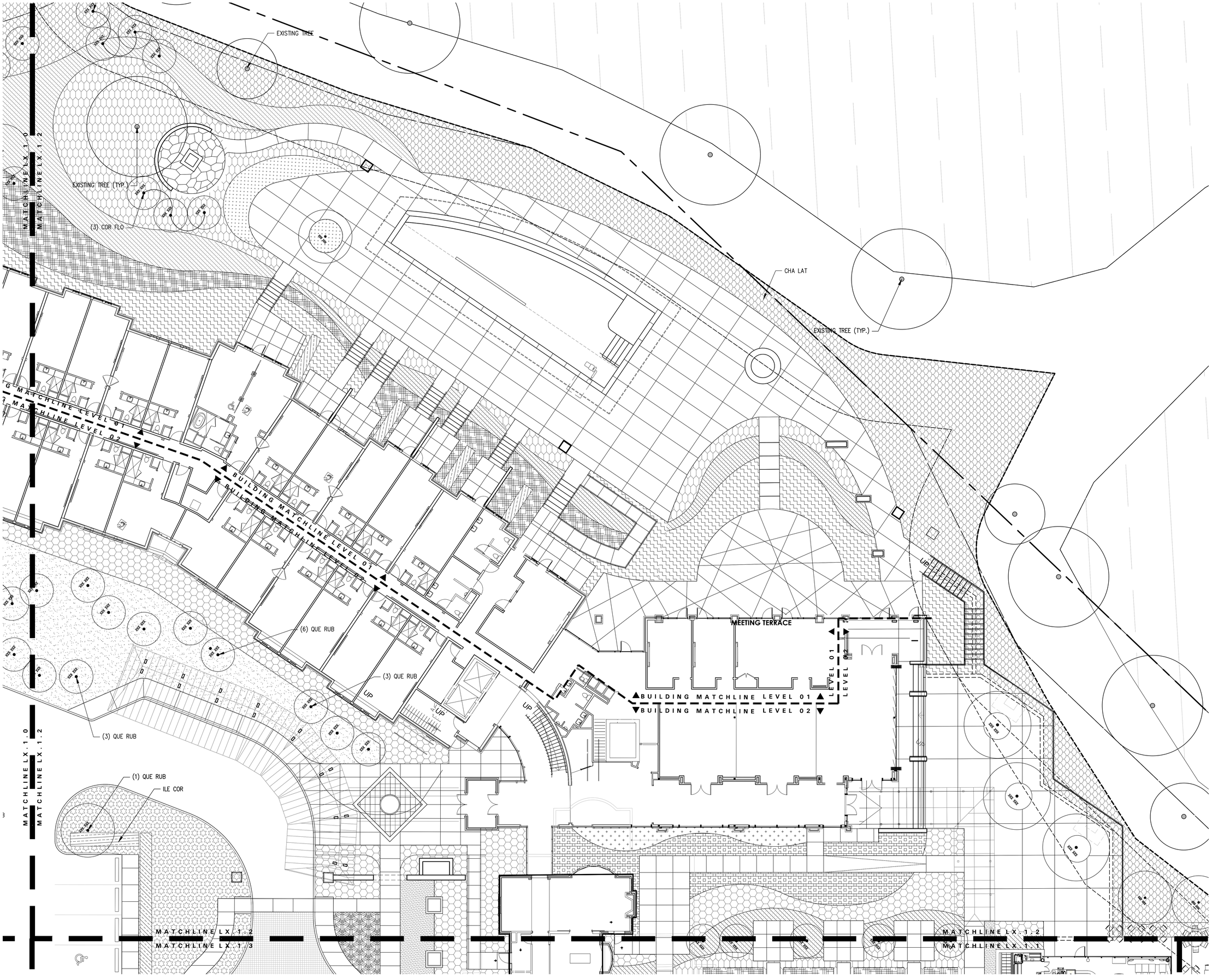

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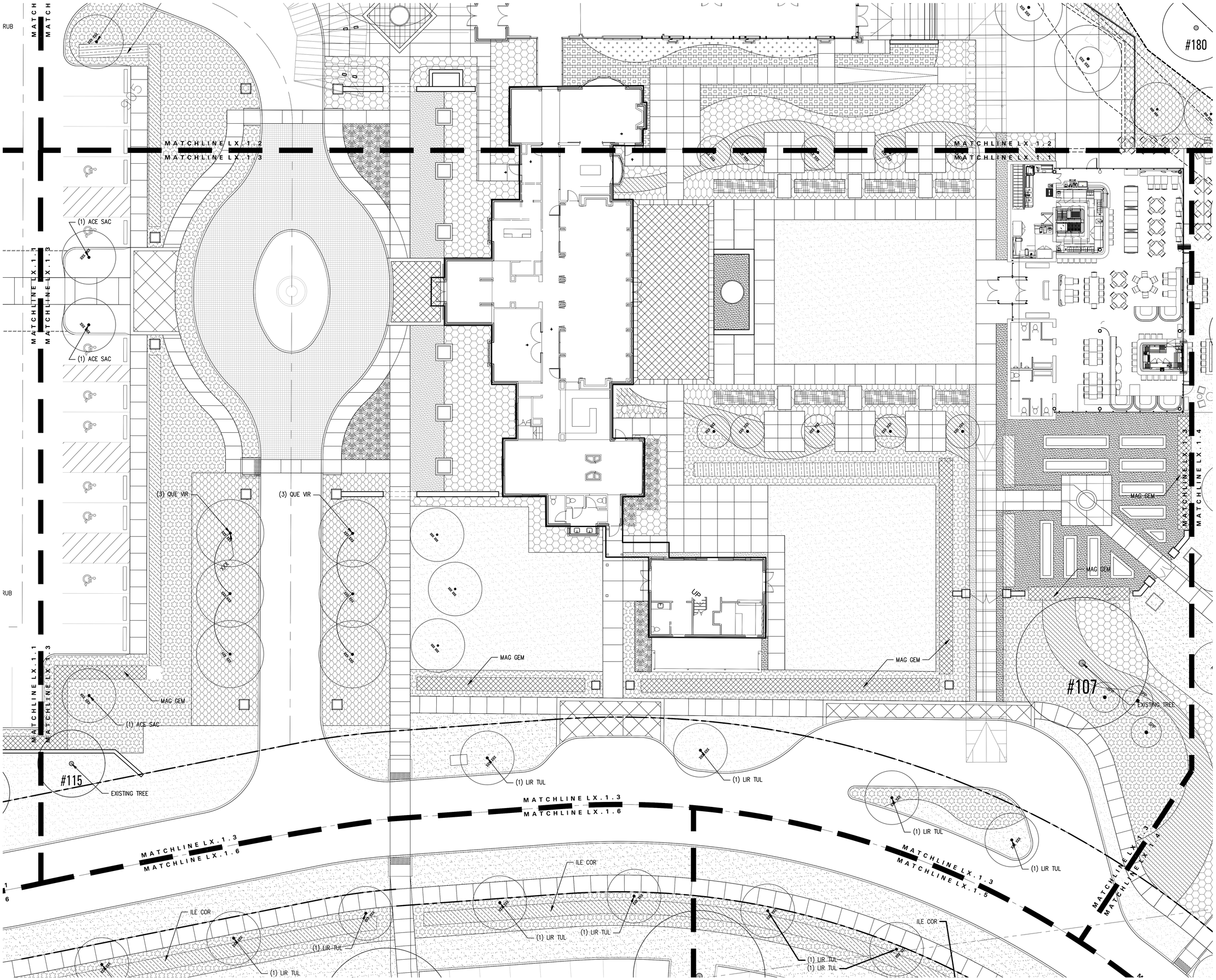

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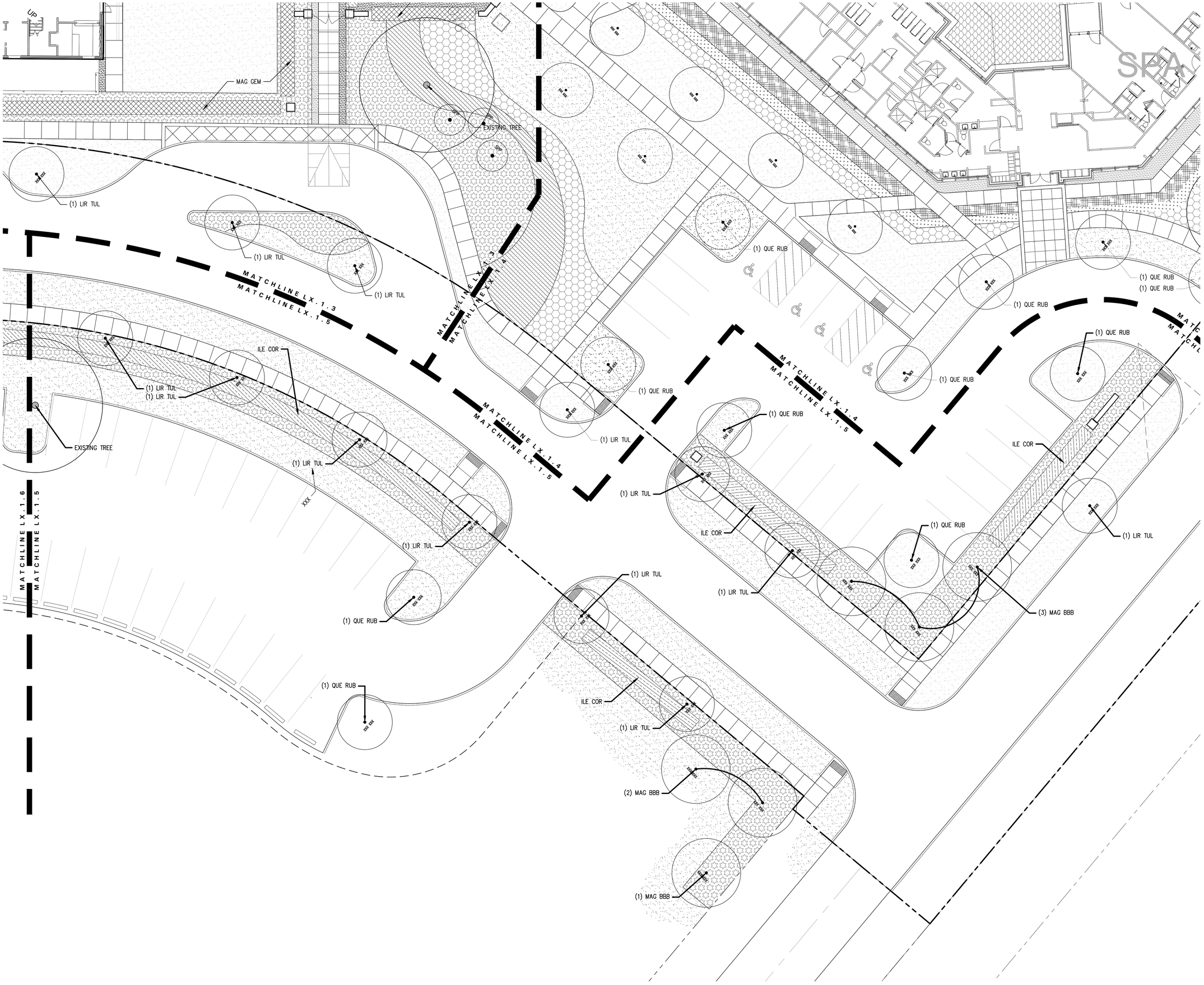

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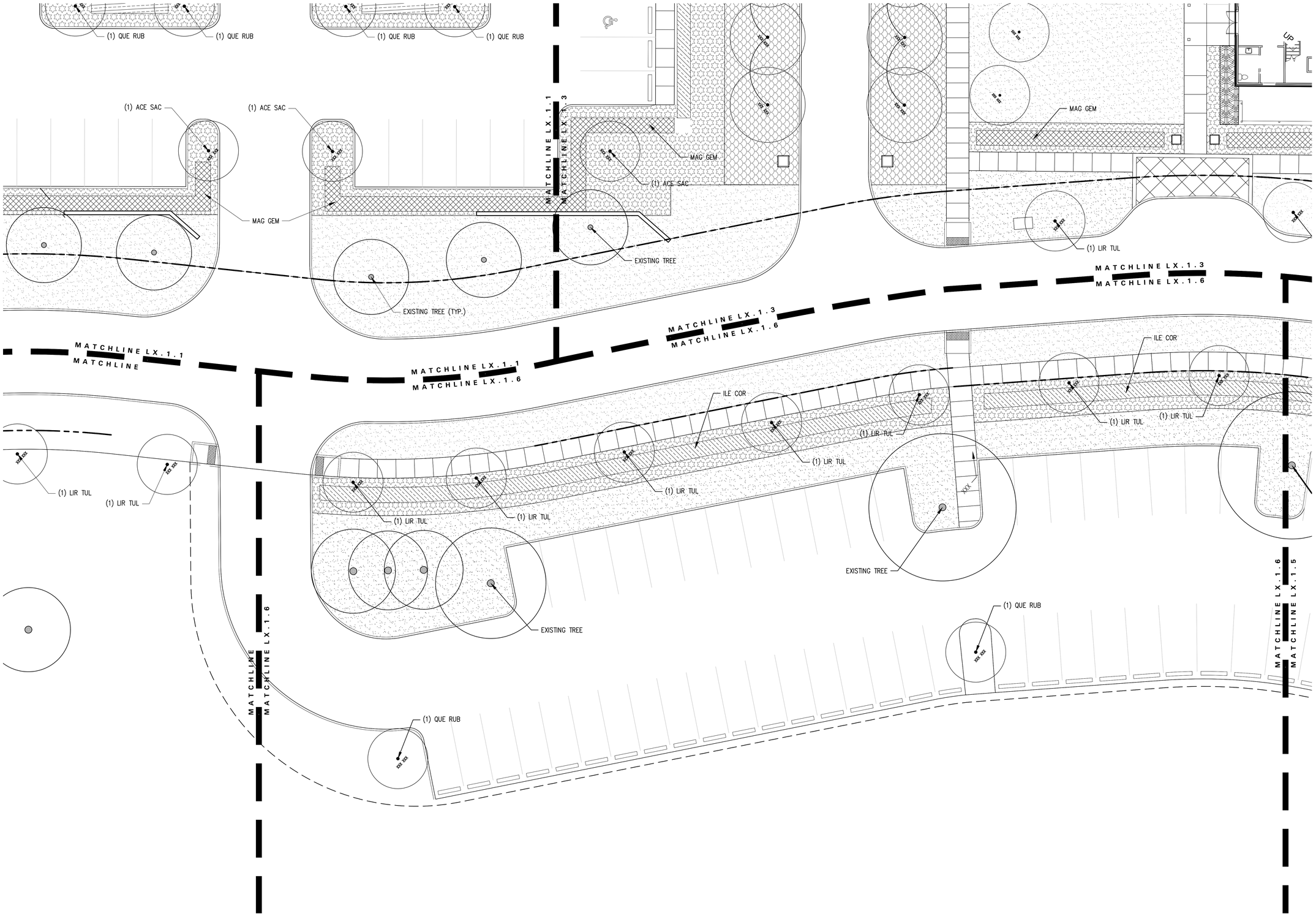

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Job Number
HDIS801

Scale

0 5' 10'
1" = 10'

North

Drawing Title

PLANTING PLAN

Drawing Number

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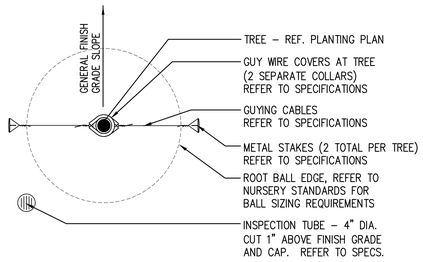
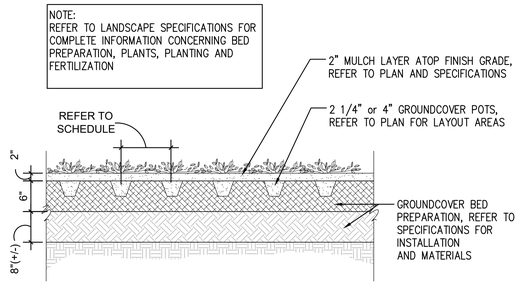


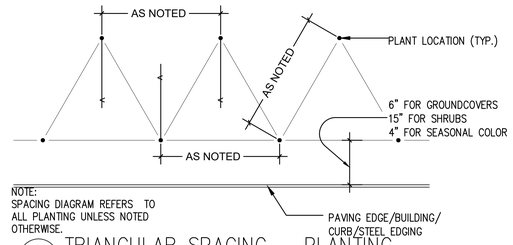
14 TYPICAL TREE STAKING
1" = 1'-0"



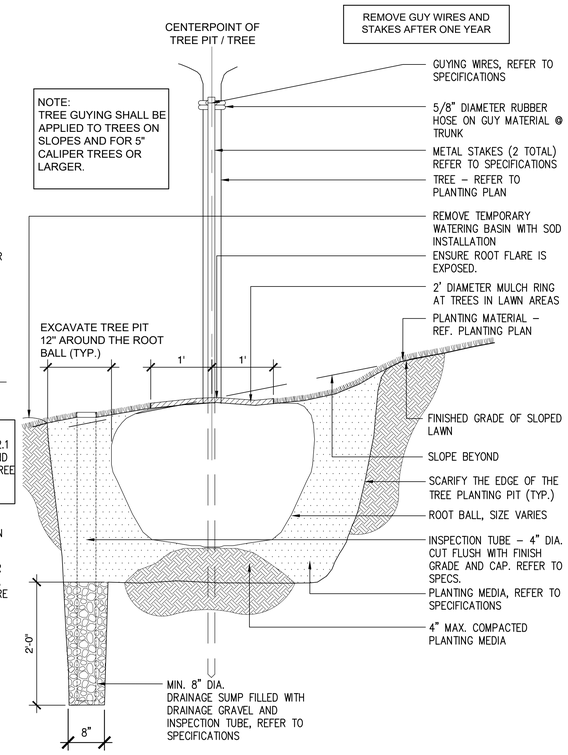
10 TYPICAL GROUNDCOVER PLANTING
1" = 1'-0"

PLANT QUANTITY CALCULATION		EXAMPLE (100 SQ FT. AREA @ 24" O.C. SPACING)
SQUARE SPACING:	AREA (IN SQ FT.) / SPACING² (IN FEET)	100 / 2² = 25 QTY
TRIANGULAR SPACING:	AREA (IN SQ FT.)/0.86 / SPACING² (IN FEET)	100/0.86 / 2² = 29 QTY

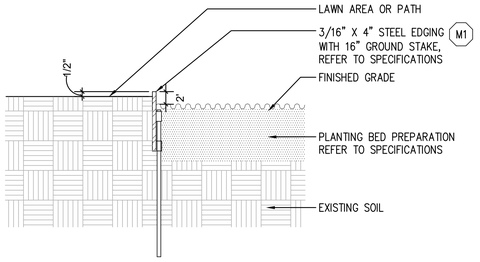
NOTE:
DEDUCT THE OFFSET DIMENSION SHOWN TO THE FIRST SHRUB WHEN CALCULATING SQUARE FOOT OF COVERAGE FOR THE PLANT AREA.



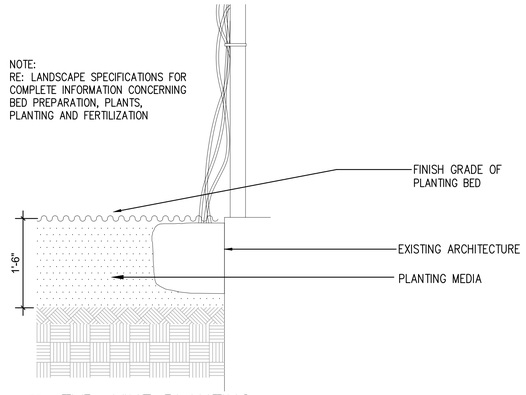
06 TRIANGULAR SPACING – PLANTING
1" = 1'-0"



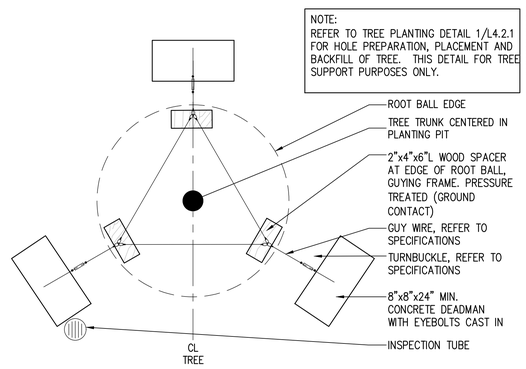
02 TYPICAL TREE PLANTING ON SLOPE
1" = 1'-0"



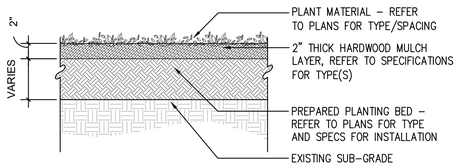
13 TYPICAL STEEL EDGING
1" = 1'-0"



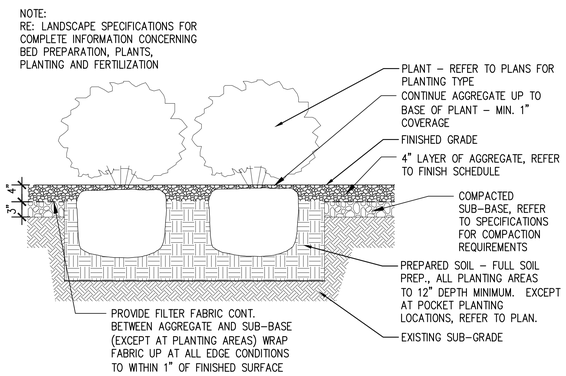
09 TYP. VINE PLANTING
1" = 1'-0"



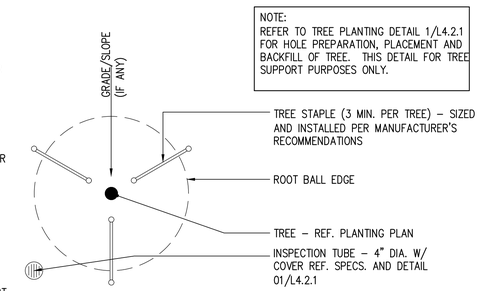
05 TREE STAKING LAYOUT (8IN+ CALIPER TREE)
1" = 1'-0"



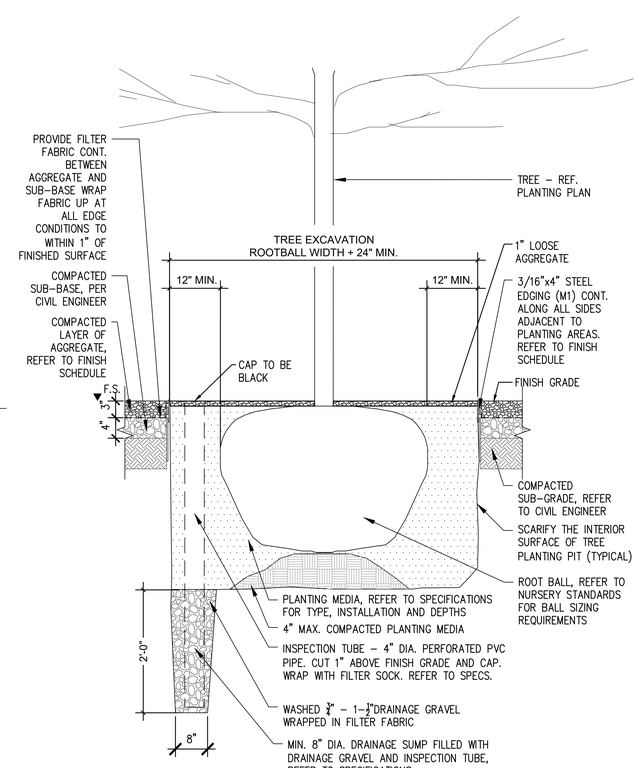
12 TYPICAL HARDWOOD MULCH DETAIL
1" = 1'-0"



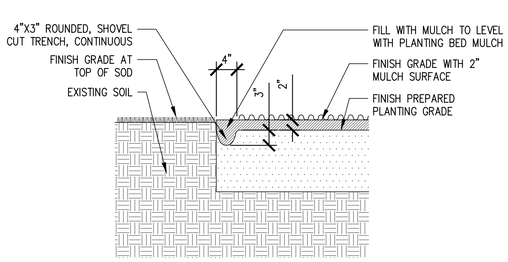
08 TYPICAL PLANTING DETAIL AT AGGREGATE MULCH
1" = 1'-0"



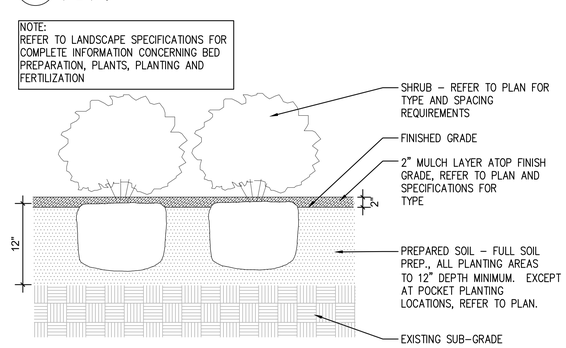
04 TREE STAKING LAYOUT (7IN– CALIPER TREE)
1" = 1'-0"



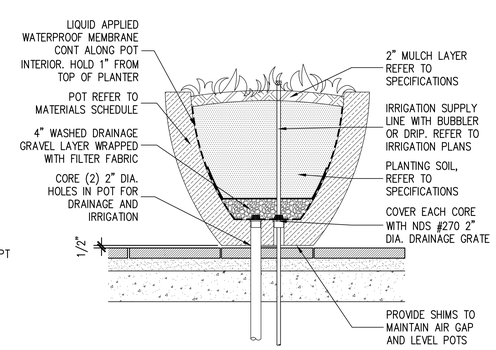
01 TYPICAL TREE PLANTING DETAIL
1" = 1'-0"



11 TYP. TRENCH EDGE
1" = 1'-0"



07 TYP. SHRUB MASS PLANTING DETAIL
1" = 1'-0"



03 PLANTER POT
1" = 1'-0"

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SITE FURNISHINGS SCHEDULE (SF)

KEY	DESCRIPTION	MATERIAL	SUPPLIER	SIZE	COLOR	FINISH	REMARKS	QUANTITIES
SF1	PLANTER	–	–	28"	–	–	–	31
SF2	NATURAL GAS FIRE PIT (CIRCULAR)	NATIVE STONE	CUSTOM	REFER TO PLANS	NATIVE STONE	–	REFER TO PLANS	--
SF3	NATURAL GAS FIRE PIT (SQUARE)	NATIVE STONE	CUSTOM	REFER TO PLANS	NATIVE STONE	–	REFER TO PLANS	--
SF4	CABANA	REFER TO DETAILS	TUCCI	10.0'/3M	JET BLACK	POWDER COAT	REFER TO SHEET -------	4
SF5	FLOOR LANTERN	TBD	N/A	–	–	–	–	--
SF6	KATACHI HIGH BACK LOUNGE CHAIR	FRAME: ALUMINUM WITH JANUSCOAT. SEAT & BACK: HANDWOVEN JANUSFIBER. CUSHION REQUIRED.	JANUS ET CIE	PER MANUFACTURER	TUNGSTEN	–	KATACHI HIGH BACK LOUNGE CHAIR, PRODUCT NUMBER 736-35-112-04-00. LOUNGE CHAIR FROM THE KATACHI COLLECTION. FRAME: ALUMINUM WITH JANUSCOAT. SEAT & BACK: HANDWOVEN JANUSFIBER. INTEGRATED D RING FOR CUSHION ATTACHMENT INCLUDED. CUSHION REQUIRED. CONTACT JANUS ET CIE AT PH: 1.300.652.7090	48
SF7	TULIP DINING TABLE SQUARE 92	ALUMINUM FRAME, WOODEN TOP	JANUS ET CIE	36"L X 36"W X 29.25"H	MERCURY	WEATHERED	KOKO II JANUSWOOD TULIP DINING TABLE SQUARE 92, PRODUCT NUMBER 719-45-536-83-66. TABLE FROM THE KOKO II COLLECTION. FRAME: TUBULAR ALUMINUM WITH JANUSCOAT. TO: ALUMINUM RIM WITH JANUSCOAT. INSET WEATHERED JANUSWOOD SLATS. CONTACT JANUS ET CIE AT PH: 1.300.652.7090	12
SF8	ROCK GARDEN SIDE CHAIR	FRAME: DRIFTWOOD SEAT & BACK: HANDWOVEN JANUSFIBER	JANUS ET CIE	PER MANUFACTURER	DRIFTWOOD/SMOKE	–	ROCK GARDEN SIDE CHAIR, PRODUCT NUMBER 733-06-061-71-81. CHAIR FROM THE ROCK GARDEN COLLECTION. FRAME: DRIFTWOOD PAINTED TEAK. SEAT AND BACK: HARDWOVEN JANUSFIBER. CONTACT JANUS ET CIE AT PH: 1.300.652.7090.	12
SF9	HARRIS ROUND DINING TABLE	TOP: SUPERSTONE COMPOSITE FAUX STONE. BASE: N-DURA RESIN WICKER	SUMMER CLASSICS	PER MANUFACTURER	TABLE TOP: RAFFIA TABLE BASE: TRAVERTINE	–	HARRIS ROUND DINING TABLE, ITEM NUMBERS, TABLE BASE:315445 AND TABLE BASE:31555. TABLE TOP AND BASE SOLD SEPARATELY. CONTACT SUMMER & CLASSICS AT 888.868.4267	3
SF10	SORRENTO OUTDOOR SWIVEL LOUNGE CHAIR	ALUMINUM FRAME AND BASE. WITH HAND-WOVEN WICKER	PALECEK	31.25"W X 34.5"DP X 41.25"H	MEDIUM BROWN	POWDER COAT FRAME	SORRENTO OUTDOOR SWIVEL LOUNGE CHAIR, PRODUCT NUMBER 7277-83+8559-64. LOOSE SEAT AND BACK CUSHION INCLUDED. CONTACT PALECEK AT PH: 800.274.7730	27
SF11	LA LUNA SIDE TABLE (ROUND)	BASE: HANDWOVEN RATTAN OVER MAPLE WOOD. TOP: MAPLE WOOD RIM WITH INSET HPL.	JANUS ET CIE	19.75" DIAMETER: 19.75"	NATURAL	–	LA LUNA SIDE TABLE ROUND 50, PRODUCT NUMBER 757-38-615-02-00. TABLE FROM THE LA LUNA COLLECTION. CONTACT JANUS ET CIE AT PH:1.300.652.7090.	16
SF12	ST. KITTS CHAISE LOUNGE WITH CUSHION	FRAME: TEAK WOOD CUSHION: FOAM CORE WRAPPED IN POLYESTER WITH FABRIC COVER	FRONTGATE	80"L X 26"W X 13"H	NATURAL	REFER TO MANUFACTURER	ST. KITTS CHAISE LOUNGE WITH CUSHION, PRODUCT ITEM NUMBER #154298, FROM FRONTGATE. CUSHION: NATURAL COLOR. CONTACT FRONTGATE AT PH: 888-263-9850	68
SF13	CROSS CHAISE LOUNGE (POOL)	FRAME: POWDER COATED ALUMINUM. CUSHION REQUIRE	JANUS ET CIE	35"X82"X31"	TBD	–	–	--
SF14	CROSS SIDE TABLE (POOL)	FRAME: POWDER COATED ALUMINUM. TOP: INSET CLEAR TEMPERED GLASS	JANUS ET CIE	24"X24"X22"	TBD	–	–	--
SF15	LARGE PLANTER			60"X20"				1
SF16	10' CANTILEVER UMBRELLA	ALUMINUM RIBS, FRAME, AND FITTINGS. STEEL CROSS. FABRIC TOP	SUMMER CLASSICS	PER MANUFACTURER	TBD	–	10' CANTILEVER UMBRELLA WITH 360 DEGREE ROTATING POLE AND CANOPY, ITEM NUMBER 10CANT-CB. CONTACT SUMMER CLASSICS AT PH: 888.868.4267	14
SF17	MESA ROUND SIDE TABLE	RESIN AND FIBERGLASS	RH	16.75"H DIAMETER:15"-16"	PETRIFIED WOOD	HAND PAINTED	MESA ROUND SIDE TABLE, ITEM NUMBER 10000868 NATL. SIDE TABLE NOT FROSTPROOF. CONTACT RH AT PH: 800.762.1005	54
SF18	AZIMUTH CROSS CLUB SOFA (2 SEAT)	FRAME: POWDER COATED ALUMINUM. CUSHION REQUIRED	JANUS ET CIE	69"W X 35"D X 30"H	WHITE VERMOUTH	–	AZIMUTH CROSS CLUB SOFA 2 SEAT, PRODUCT NUMBER: 781-30-406-01-00. SOFA FROM THE AZIMUTH COLLECTION. CONTACT JANUS ET CIE AT PH: 1.310.652.7090	1
SF19	VETRO ROUND COFFEE TABLE	FIBERSTONE	RH	15"H BASE DIA. 35"	DARK GREY	–	VETRO ROUND COFFEE TABLE, ITEM NUMBER 10006143 GREY. FROST RESISTANT. CONTACT RH AT PH:800.762.1005	9
SF20	GROTTO BIRCH GRANDE SIDE TABLE	STONE MATRIX / CEMENT	JANUS ET CIE	20"H DIAMETER: 14"	BIRCH	–	GROTTO BIRCH GRANDE SIDE TABLE, ITEM NUMBER 607-63-681-03-00. CONTACT JANUS ET CIE AT PH: 1.310.652.7090	6
SF21	SANTORINI OUTDOOR LOUNGE CHAIR	TEAK WOOD FRAME AND LEGS. WOVEN ROPE DOUBLE BACK	PALECEK	34.5"W X 35.5"DP X 33"H	FRAME: NATURAL BROWN FINISH. BACK: TAUPE AND GREY	–	SANTORINI OUTDOOR LOUNGE CHAIR, PRODUCT NUMBER 7114-79+/8004-64. LOOSE SEAT AND BACK CUSHION INCLUDED. CONTACT PALECEK AT PH: 800.274.7730	14
SF22	GIRONA FOUNTAIN	GLASS-FIBER REINFORCED CONCRETE	N/A	–	–	–	–	--

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URBAN STRUCTURE
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50% CONSTRUCTION DOCUMENT NOT FOR CONSTRUCTION

Revisions

1 ####
2 ####
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9 ####
10 ####

Key Plan

Date
JANUARY 31, 2020
Phase
CONSTRUCTION DOCUMENT
Job Number
HDIS801

Drawing Title

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Drawing Number

L0.04

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1. DESIGN CRITERIA

A. GENERAL BUILDING CODE
1. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE 2018 SOUTH CAROLINA BUILDING CODE (IBC).

B. SUPPLEMENTARY BUILDING CODE REFERENCES INCLUDE THOSE REFERENCES LISTED BELOW, AS REFERENCED BY THE GENERAL BUILDING CODE.
1. GENERAL
   a. ASCE 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2. CAST-IN-PLACE CONCRETE
   a. ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
3. PRECAST STRUCTURAL CONCRETE
   a. ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. PRECAST ARCHITECTURAL CONCRETE
   a. ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
5. CONCRETE MASONRY
   a. TMS 402-2016 - BUILDING CODE MASONRY STRUCTURES
   b. TMS 602-2016 - SPECIFICATION FOR MASONRY STRUCTURES
6. STRUCTURAL STEEL
   a. AISC 360-16 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
   b. AISC 341-16 - SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
   c. AWS D1.1/D1.1M (2017) - STRUCTURAL WELDING CODE - REINFORCING STEEL INCLUDING METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE
7. STEEL DECKING
   a. SDI NC-2017 - STANDARD FOR NONCOMPOSITE STEEL FLOOR DECK
   b. SDI RD-2017 - STANDARD FOR STEEL ROOF DECK
   c. SDI C-2017 - STANDARD FOR COMPOSITE STEEL FLOOR DECK-SLABS
8. STEEL JOISTS
   a. SJI 100-15: 44TH EDITION STANDARD SPECIFICATION LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS K-SERIES, LH-SERIES, DHL-SERIES, JOIST GIRDERS
   b. SJI 200-15 - STANDARD SPECIFICATION FOR COMPOSITE STEEL JOISTS, CJ-SERIES
9. COLD-FORMED METAL FRAMING (CFMF)
   a. AISI S100-16 - NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
   b. AISI S202-15 - CODE OF PRACTICE FOR COLD-FORMED STEEL FRAMING
   c. AISI S220-15 - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - NONSTRUCTURAL MEMBERS
   d. AISI S240-15 - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURING FRAMING
   e. AISI S400-15/S1-16 - NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD-FORMED STEEL STRUCTURAL SYSTEMS, 2015, WITH SUPPLEMENT 1, DATED 2016
10. WOOD FRAMING
   a. ANSI/AWC NDS-2018 - NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2018 NDS SUPPLEMENT
   b. ANSI/AWC SDPWS 2015 - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC
11. WOOD TRUSSES
   a. TPI 1-2014 - NATIONAL DESIGN STANDARDS FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION

C. DEAD LOADS:
1. RESIDENTIAL UNITS (TYPE I/II CONSTRUCTION):
   a. ACTUAL WEIGHT OF PARTITIONS HAS BEEN APPLIED AS A UNIFORMLY-DISTRIBUTED SUPERIMPOSED DEAD LOAD. (15 PSF)
   b. AN ALLOWANCE OF 5 PSF HAS BEEN APPLIED AS A UNIFORMLY-DISTRIBUTED SUPERIMPOSED DEAD LOAD FOR HANGING CEILING AND MECHANICAL LOADS, SUCH AS DUCTWORK, SPRINKLER PIPES, AND MECHANICAL EQUIPMENT LOADS.
   c. THE ACTUAL WEIGHT OF THE EXTERIOR CLADDING OR CURTAIN WALL HAS BEEN APPLIED TO THE STRUCTURE.
2. RESTAURANT/OFFICE FRAMING AND/OR MEZZANINE FRAMING (TYPE I/II CONSTRUCTION):
   a. WEIGHT OF THE PARTITIONS HAS BEEN INCLUDED AS A PORTION OF THE LIVE LOAD, AS ALLOWED BY CODE (ASCE 7, §4.3.2).
   b. AN ALLOWANCE OF 15 PSF HAS BEEN APPLIED AS A UNIFORMLY-DISTRIBUTED SUPERIMPOSED DEAD LOAD FOR HANGING CEILING AND MECHANICAL LOADS, SUCH AS DUCTWORK, SPRINKLER PIPES, AND MECHANICAL EQUIPMENT LOADS.
   c. THE ACTUAL WEIGHT OF THE EXTERIOR CLADDING OR CURTAIN WALL HAS BEEN APPLIED TO THE STRUCTURE.
   d. AT SUPPORT FOR SPRINKLER LINES, THE STRUCTURE HAS BEEN DESIGNED TO ACCOMMODATE A CONCENTRATED LOAD OF 150 LBS IN ADDITION TO THE FULL WEIGHT OF THE SPRINKLER PIPING SHOWN BELOW:

NOMIMAL PIPE DIAMETER	WEIGHT (PLF)
6" DIAMETER	32 PLF
8" DIAMETER	50 PLF
10" DIAMETER	75 PLF
12" DIAMETER	100 PLF
16" DIAMETER	160 PLF

D. LIVE LOADS
1. LIVE LOADS PRODUCED BY THE USE OR OCCUPANCY OF THE STRUCTURE HAVE BEEN INCLUDED IN THE DESIGN, BASED ON THE FOLLOWING OCCUPANCIES:

OCCUPANCY OR USE	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LB)
PITCHED ROOF (REDUCIBLE)	20	--
FLAT ROOF (UNREDUCIBLE)	32	--
FLAT ROOF W/RTU (UNREDUCIBLE)	52	250
FLAT ROOF W/RETAIL RTU (UNREDUCIBLE)	75	500
UNIT FLOOR	40	--
PRIVATE BALCONY	60	--
AMENITY	100	500
FITNESS/YOGA	100	500
CORRIDOR/BREEZEWAY	100	--
STAIRS, STAIR ACCESS	100	300
MECHANICAL/ELECTRICAL ROOMS	100	--
TELECOM ROOMS	100	--
ELEVATOR CONTROL ROOMS	100	--
FIRE PUMP ROOMS	100	1,000
LIGHT STORAGE AREAS	125	--
PUBLIC ASSEMBLY	100	--
RETAIL	100	1,000
OFFICE	50(+15)	1,000

THE STRUCTURAL DESIGN IS BASED ON THE GREATER OF THE EFFECTS OF THE UNIFORM LOADS NOTED ABOVE OR THE CONCENTRATED LOADS NOTED ABOVE (ASSUMED TO BE DISTRIBUTED OVER AN AREA 2.5 FEET SQUARE UNLESS SPECIFICALLY NOTED BELOW).

2. THE CONCENTRATED LOAD DUE TO TRUCK WHEELS ON SIDEWALKS, VEHICULAR DRIVEWAYS AND YARDS, SUBJECT TO TRUCKING, SHALL BE DISTRIBUTED OVER AN AREA OF 20 SQUARE INCHES.
3. THE MINIMUM CONCENTRATED LOAD ON STAIR TREADS SHALL BE 300 POUNDS ON AN AREA OF 4 SQUARE INCHES.
4. HANDRAILS AND GUARDS SHALL BE DESIGNED FOR THE EFFECTS RESULTING FROM BOTH OF THE FOLLOWING LOADING CONDITIONS. THESE LOADS SHALL NOT BE APPLIED CONCURRENTLY.
   a. A LOAD OF 50 POUNDS PER LINEAR FOOT (PLF) APPLIED IN ANY DIRECTION TO THE HANDRAIL OR GUARD.
   b. A LOAD OF 200 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT TO THE HANDRAIL OR GUARD.
5. INTERMEDIATE RAILS, BALUSTERS, PANEL FILLERS, AND THEIR CONNECTIONS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 12"x12", INCLUDING OPENINGS AND SPACES BETWEEN RAILS, AND LOCATED SO AS TO PRODUCE THE MAXIMUM LOAD EFFECTS.
6. DESIGN LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH THE GENERAL BUILDING CODE NOTED ABOVE, SECTION 1607.10.1 AND 1607.10.2.

E. WIND LOADS
WIND LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE GENERAL BUILDING CODE REFERENCED ABOVE, USING THE FOLLOWING PARAMETERS:
WIND DESIGN CRITERIA:
- ULTIMATE DESIGN WIND SPEED (V_{ULT})....... 108 MPH
- NOMINAL WIND SPEED (V_{ASD})....... 84 MPH
- BUILDING EXPOSURE CATEGORY....... B
- RISK CATEGORY....... II
- INTERNAL PRESSURE COEFFICIENT....... ±0.15
- BASE WIND PRESSURE, (qh)....... 18.1 PSF
- COMPONENTS AND CLADDING PRESSURES....... SEE TABLE ON S-020

F. SEISMIC LOADS
SEISMIC LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE GENERAL BUILDING CODE REFERENCED ABOVE, USING THE FOLLOWING PARAMETERS:
- BUILDING RISK CATEGORY....... II
- SEISMIC IMPORTANCE FACTOR, I....... 1.0
- MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_S....... 0.293g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S_1....... 0.094g
- SITE CLASS....... C
- SHORT PERIOD SITE COEFFICIENT, F_a....... 1.3
- LONG PERIOD SITE COEFFICIENT, F_v....... 1.5
- SPECTRAL RESPONSE COEFFICIENTS, SHORT PERIOD, S_{DS}....... 0.254g
- SPECTRAL RESPONSE COEFFICIENTS, 1 SEC. PERIOD, S_{D1}....... 0.094g
- SEISMIC DESIGN CATEGORY, S_{DC}....... B

BASIC STRUCTURAL AND SEISMIC RESISTING SYSTEM:
- COLD FORMED RESIDENTIAL:
  - LIGHT-FRAME (COLD-FORMED) WALL SYSTEMS USING FLAT STRAP BRACING
- CONCRETE FRAMES(S):
  - ORDINARY REINFORCED CONCRETE MOMENT FRAMES
- STEEL FRAMES(S):
  - STEEL ORDINARY MOMENT FRAMES

ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE PER ASCE 7, §12.8

SEISMIC DESIGN PARAMETERS:
- COLD FORMED STRUCTURE:
  - RESPONSE MODIFICATION FACTOR, R (LIGHT-FRAME (COLD-FORMED) WALL SYSTEMS USING FLAT STRAP BRACING)....... 4.0
  - DEFLECTION AMPLIFICATION FACTOR, Cd (LIGHT-FRAME (COLD-FORMED) WALL SYSTEMS USING FLAT STRAP BRACING)....... 3.5
  - OVERSTRENGTH FACTOR, Ω_0 (LIGHT-FRAME (COLD-FORMED) WALL SYSTEMS USING FLAT STRAP BRACING)....... 2.0
  - SEISMIC RESPONSE COEFFICIENT, C_S....... ###
- CONCRETE STRUCTURE:
  - RESPONSE MODIFICATION FACTOR, R (ORDINARY REINFORCED CONCRETE MOMENT FRAMES)....... 3.0
  - DEFLECTION AMPLIFICATION FACTOR, Cd (ORDINARY REINFORCED CONCRETE MOMENT FRAMES)....... 2.5
  - OVERSTRENGTH FACTOR, Ω_0 (ORDINARY REINFORCED CONCRETE MOMENT FRAMES)....... 3.0
  - SEISMIC RESPONSE COEFFICIENT, C_S....... ###
- STEEL STRUCTURE:
  - RESPONSE MODIFICATION FACTOR, R (STEEL ORDINARY MOMENT FRAMES)....... 3.5
  - DEFLECTION AMPLIFICATION FACTOR, Cd (STEEL ORDINARY MOMENT FRAMES)....... 3.0
  - OVERSTRENGTH FACTOR, Ω_0 (STEEL ORDINARY MOMENT FRAMES)....... 3.0
  - SEISMIC RESPONSE COEFFICIENT, C_S....... ###

DESIGN BASE SHEAR (KIPS):
- WOOD-FRAMED STRUCTURE:
  - LONGITUDINAL (X) E/W....... ###K
  - TRANSVERSE (Y) N/S....... ###K
- CONCRETE STRUCTURE:
  - LONGITUDINAL (X) E/W....... ###K
  - TRANSVERSE (Y) N/S....... ###K
- CONCRETE STRUCTURE:
  - LONGITUDINAL (X) E/W....... ###K
  - TRANSVERSE (Y) N/S....... ###K

G. SNOW LOADS
SNOW LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE GENERAL BUILDING CODE REFERENCED ABOVE, WITH THE FOLLOWING PARAMETERS:
- GROUND SNOW LOAD, P_g....... 10 PSF
- FLAT ROOF SNOW LOAD, P_f....... 7 PSF
- SNOW EXPOSURE COEFFICIENT, C_e....... 1.0
- IMPORTANCE FACTOR, I....... 1.0
- THERMAL FACTOR, C_t....... 1.0
- RAIN ON SNOW SURCHARGE (1/4" PER FOOT SLOPE)....... 0.0 PSF
- DRIFT CONDITIONS CONSIDERED PER ASCE 7, §7.7.

H. DESIGN LOAD COMBINATIONS
1. BASIC LOAD COMBINATIONS PER SECTION 1605.2 FOR LOAD AND RESISTANCE FACTOR DESIGN (LRFD) ARE USED.
2. BASIC LOAD COMBINATIONS PER SECTION 1605.3 FOR ALLOWABLE STRESS DESIGN (ASD) ARE USED.

I. STRUCTURAL STABILITY OF BUILDING FRAME
THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT UPON THE FOLLOWING FRAMING COMPONENTS AND SYSTEMS:
1. COLD FORMED RESIDENTIAL WITH PRECAST SLABS:
   c. LATERAL BUILDING FRAMES (COLD FORMED SHEAR WALLS)
   d. VERTICAL LOAD-BEARING ELEMENTS (COLD FORMED STUD WALLS, COLD FORMED COLUMNS, STEEL COLUMNS)
   e. HORIZONTAL DIAPHRAGM (PRECAST PLANS AND CONCRETE TOPPING)
2. CAST-IN-PLACE CONCRETE:
   a. LATERAL BUILDING FRAMES (ORDINARY REINFORCED CONCRETE MOMENT FRAMES)
   b. VERTICAL LOAD-BEARING ELEMENTS (CONCRETE COLUMNS)
   c. HORIZONTAL DIAPHRAGM (CONCRETE SLAB)
3. STRUCTURAL STEEL FRAMING:
   a. LATERAL BUILDING FRAMES (STEEL ORDINARY MOMENT FRAMES)
   b. VERTICAL LOAD-BEARING ELEMENTS (STEEL COLUMNS, CONCRETE WALLS)
   c. HORIZONTAL DIAPHRAGM (CONCRETE SLAB ON METAL DECK)
4. STRUCTURAL STEEL ROOF FRAMING:
   a. LATERAL BUILDING FRAMES (STEEL ORDINARY MOMENT FRAMES)
   b. VERTICAL LOAD-BEARING ELEMENTS (STEEL COLUMNS, CONCRETE WALLS)
   c. HORIZONTAL DIAPHRAGM (STEEL ROOF DECK)

J. CONSTRUCTION SEQUENCING
THE CONTRACTOR SHALL COORDINATE THE SEQUENCE AND SCHEDULE OF CONSTRUCTION WITH THE ENGINEER.

K. BUILDING DEFLECTIONS AND DRIFTS - ANTICIPATED DIFFERENTIAL MOVEMENTS FOR CLADDING DESIGN AND INSTALLATION.
1. UNDER NORMAL LOADING CONDITIONS, CONCRETE SLABS AND BEAMS WILL DEFLECT, WHETHER REINFORCED OR POST-TENSIONED, WITH A PORTION OF THE DEFLECTION DEPENDENT ON THE LENGTH OF TIME THE LOAD IS APPLIED. STEEL STRUCTURES WILL ALSO DEFLECT UNDER LOAD AND ENVIRONMENTAL CONDITIONS.
2. PROPER ALLOWANCE MUST BE MADE IN FINISHES AND ATTACHED ELEMENTS TO PERMIT THE STRUCTURE TO DEFLECT WITHOUT DAMAGE TO THE ATTACHED ELEMENTS. DETAILS FOR ATTACHMENT OF THESE ELEMENTS MAY BE PROVIDED BY OTHERS.
3. THE FOLLOWING ANTICIPATED DIFFERENTIAL MOVEMENTS BETWEEN ANY TWO FLOORS ARE BASED ON THE ASSUMPTION THAT CLADDING AND GLAZING INSTALLATION OCCURS NO EARLIER THAN 3 MONTHS AFTER SHORING IS REMOVED AND THE SLABS AND BEAMS ARE FREE TO DEFLECT. SHOULD INSTALLATION OCCUR SOONER, ADDITIONAL MOVEMENT SHOULD BE ANTICIPATED:
   a. VERTICAL MOVEMENT ALLOWANCE:....... 5/8" MIN.
   b. HORIZONTAL MOVEMENT ALLOWANCE:....... 3/4" MIN.

2. GENERAL

A. THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL.

B. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.

C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO REVIEW INFORMATION SHOWN IN THE STRUCTURAL DRAWINGS/SPECIFICATIONS AND COORDINATE WITH REQUIREMENTS OUTLINED IN THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND/OR CIVIL DRAWINGS/SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION.

D. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.

E. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.

F. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

G. WHERE A SECTION IS CUT ON THE DRAWINGS, IT SHALL APPLY AT ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

H. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   a. EDGE OF SLAB (EOS) DIMENSIONS
   b. EDGE OF DECK (EOD) DIMENSIONS
   c. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS
   d. SIZE AND LOCATION OF ALL ROOF OPENINGS
   e. FLOOR AND ROOF FINISHES
   f. DETAILS OF VENEER ATTACHMENT
   g. LOCATION AND EXTENT OF INSULATION

I. SEE MECHANICAL, PLUMBING, ELECTRICAL AND/OR CIVIL DRAWINGS FOR THE FOLLOWING INFORMATION:
   a. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC.
   b. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS
   c. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES
   d. UNDERGROUND CONCRETE DUCTS, TRENCHES, PITS OR MANHOLES
   e. CONCRETE AND ASPHALT PAVEMENT

J. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE GENERAL CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL MEANS AND METHODS OF CONSTRUCTION AND SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN OR OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, ETC. MODIFICATION OR SUBSTITUTION MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

K. FIELD VERIFY ALL EXISTING ABOVE AND BELOW GROUND CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE STARTING WORK.

L. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

M. THE STRUCTURAL ENGINEER OF RECORD (ELLINWOOD + MACHADO, LLC) IS NOT RESPONSIBLE FOR THE DESIGN OF THE FOLLOWING ITEMS:
1. POST-TENSIONED SLABS ON GRADE
2. SITE RETAINING WALLS (RETAINING WALLS THAT OCCUR OUTSIDE OF BUILDING FOOTPRINT, EXCEPT WHERE SPECIFICALLY SHOWN/DETAILED IN THESE DRAWINGS)
3. SPECIALTY FOUNDATION SYSTEMS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   a. RAMMED AGGREGATE PIERS
   b. UNDER-PINNING
   c. SHEET PILING
   d. MECHANICALLY STABILIZED EARTH (MSE) WALLS
   e. LAGGING WALLS
   f. SOIL NAILS
   g. PRECAST CONCRETE PILES
4. STRUCTURAL PRECAST MEMBERS
5. ARCHITECTURAL PRECAST CLADDING
6. STEEL STAIRS
7. PRECAST STAIRS
8. HANDRAILS (REGARDLESS OF MATERIAL(S) USED)
9. CABLE BARRIER RAIL
10. STRUCTURAL STEEL MEMBER END CONNECTIONS (UNLESS SPECIFICALLY SHOWN AND FULLY DETAILED IN THE STRUCTURAL DRAWINGS)
11. CURTAIN WALL SYSTEMS
12. WINDOW WALL SYSTEMS
13. COLD-FORMED METAL STUD (CFMS) FRAMING (TO INCLUDE LOAD-BEARING WALLS, NON-LOAD-BEARING WALLS, CEILING JOISTS, SOFFITS, ETC.)
14. COLD-FORMED STEEL TRUSS FRAMING
15. WOOD FLOOR TRUSSES
16. WOOD ROOF TRUSSES
17. STAND-ALONE STRUCTURES SHOWN ON THE LANDSCAPE ARCHITECTURE DRAWINGS (EXCEPT WHERE SPECIFICALLY SHOWN/DETAILED IN THESE DRAWINGS)
18. ALL OTHER SYSTEMS NOT SPECIFICALLY SHOWN IN THE STRUCTURAL DOCUMENTS

THE ITEMS ABOVE SHALL BE CONSIDERED TO BE DELEGATED DESIGN ITEMS, WHICH REQUIRE DESIGN TO BE COMPLETED BY A SPECIALTY ENGINEER. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THIS DESIGN WILL BE PROVIDED.

DELEGATED DESIGN ITEMS MUST BE SUBMITTED FOR REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. SEAL AND SIGNATURE BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA MAY BE REQUIRED (SEE THE PROJECT SUBMITTAL LIST ON SHEET S-00#).

3. FOUNDATION

A. FOUNDATION DESIGN IS BASED ON "GEOTECHNICAL ENGINEERING REPORT HARTNESS INN, GREENVILLE, SOUTH CAROLINA", BY TERRACON CONSULTANTS, INC., DATED APRIL 24, 2019 (TERRACON PROJECT NO. 86185109).

B. CONTRACTOR SHALL OBTAIN A COPY OF THE ABOVE REFERENCED SOILS REPORT AND COMPLY WITH ITS RECOMMENDATIONS.

C. GEOTECHNICAL RECOMMENDATIONS AND FINDINGS FOR SHALLOW FOUNDATIONS:
1. ALLOWABLE SOIL BEARING PRESSURE:
   - CONCRETE SLAB ON GRADE WITH INTEGRAL/MONOLITHIC THICKENED SLAB ELEMENTS AND/OR INTEGRAL/MONOLITHIC SPREAD FOOTINGS BEARING ON RESIDUAL SOILS OR ENGINEERED, COMPACTED FILL MATERIAL(S)....... 2,500 PSF
   - CONCRETE SPREAD FOOTINGS BEARING ON RESIDUAL SOILS OR ENGINEERED, COMPACTED FILL MATERIAL(S)....... 2,500 PSF
   - CONTINUOUS CONCRETE WALL FOOTINGS BEARING ON RESIDUAL SOILS OR ENGINEERED, COMPACTED FILL MATERIAL(S)....... 2,500 PSF
2. MINIMUM FOOTING BEARING DEPTH (AS MEASURED FROM TOP OF EXTERIOR GRADE TO FOOTING BEARING ELEVATION)....... 24"
3. MINIMUM FOOTING WIDTH....... 16" (STRIP FTGS) 24" (SPREAD FTGS)
4. LATERAL EARTH PRESSURES
   - ACTIVE (K_a) GRANULAR BACKFILL - 0.29....... 35 PSF/FT
   - AT REST (K_o) GRANULAR BACKFILL - 0.46....... 55 PSF/FT
   - PASSIVE (K_p) GRANULAR BACKFILL - 3.40....... 400 PSF/FT
   - ACTIVE (K_a) SANDY SILT/SILTY SAND - 0.36....... 45 PSF/FT
   - AT REST (K_o) SANDY SILT/SILTY SAND - 0.53....... 65 PSF/FT
   - PASSIVE (K_p) SANDY SILT/SILTY SAND - 2.80....... 350 PSF/FT
   - COEFFICIENT OF FRICTION: (BETWEEN BOTTOM OF FOOTING AND SOIL)....... 0.35
   - INTERNAL ANGLE OF FRICTION....... 0.30

D. THE SOILS ENGINEER OF RECORD SHALL CERTIFY IN WRITING THAT ALL FOUNDATIONS WERE PLACED AND COMPLETED AS SPECIFIED.

E. SOIL-SUPPORTED CONCRETE SLABS ON GRADE SHALL BE AS FOLLOWS:
1. IN AREAS OF RESIDENTIAL UNITS - 4" THICK ON PREPARED SUBGRADE W/ WWR 6x6-W2.1xW2.1.
2. IN AMENITY AREAS (CLUB ROOM, FITNESS, LEASING, LOBBY, MAIL ROOM, ETC.) - 5" THICK ON PREPARED SUBGRADE W/ WWR 6x6-W2.9xW2.9.
3. IN RETAIL AREAS - 5" THICK ON PREPARED SUBGRADE W/ WWR 6x6-W2.9xW2.9.
4. IN KITCHEN AND LAUNDRY - 6" THICK ON PREPARED SUBGRADE W/ WWR 6x6-W2.9xW2.9.
5. IN LOCATIONS THAT WILL RECEIVE LOADING FROM TRUCKS - 8" THICK ON PREPARED SUBGRADE REINFORCED W/#4@12" EA. WAY LOCATED IN TOP 2" OF SLAB THICKNESS.

WHERE THE STRUCTURAL FOUNDATION PLANS INDICATE THAT SLABS ON GRADE ARE TO BE POST-TENSIONED, REFERENCE SECTION 12 FOR ADDITIONAL INFORMATION.

F. GEOTECHNICAL ENGINEER SHALL VERIFY THE ASSUMED BEARING PRESSURE(S) NOTED ABOVE, CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.

G. SIDES OF FOUNDATION ELEMENTS (FOOTINGS, PILE CAPS, GRADE BEAMS, ETC.) SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS:
1. SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER.
2. CLEAR UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

H. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN EARTH BANKS.

I. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.

J. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED, BUT NOT BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. NO BACKFILL SHALL BE PLACED AGAINST CONCRETE WALLS UNTIL CONCRETE HAS ATTAINED FULL 28-DAY STRENGTH.

K. FOUNDATION WALLS THAT HAVE BEEN DESIGNED AS BASEMENT WALLS SHALL MEET THE FOLLOWING REQUIREMENTS.
1. PRIOR TO ANY BACKFILL BEING PLACED, THE WALL SHALL BE BRACED AGAINST LATERAL LOADING FROM SOIL BACKFILL. BRACE DESIGN SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE SUBMITTED FOR REVIEW/APPROVAL TO THE ENGINEER OF RECORD PRIOR TO INSTALLATION. BRACED DESIGN SHALL INCLUDE THE FOLLOWING, AT A MINIMUM:
   a. BRACE SIZE, MATERIAL GRADE, SPACING
   b. BRACE CONNECTION TO CONCRETE WALL
   c. BRACE CONNECTION TO DEADMAN
   d. SIZING OF DEADMAN (DIAMETER, DEPTH, CONCRETE STRENGTH, REINFORCING) AND LOCATION OF DEADMAN (DISTANCE FROM FACE OF BASEMENT WALL)
2. THE CONCRETE FOR THE BASEMENT WALL SHALL REACH A MINIMUM OF 75% OF ITS 28-DAY DESIGN STRENGTH (f'_c) PRIOR TO ANY BACKFILL BEING PLACED.
3. BACKFILLING OF THE WALL SHALL BE COMPLETED IN SUCH A MANNER THAT ALL BACKFILL LOCATED IN A ZONE OCCURRING WITHIN 5'-0" OF THE BACK FACE OF THE WALL BE COMPACTED WITH HAND-OPERATED EQUIPMENT. SHOULD THE CONTRACTOR PREFER TO USE A REMOTE CONTROLLED COMPACTOR TO COMPACT SOILS IN THE ZONE OCCURRING WITHIN 5'-0" OF THE BACK FACE OF THE WALL, THAT IS ACCEPTABLE PROVIDED THAT THE COMPACTOR IS ONE OF THOSE LISTED BELOW:
   a. WACKER NEUSON RT SERIES OR RTX SERIES TRENCH ROLLER
   b. ALTERNATE EQUIPMENT APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
4. WALL BRACING SHALL REMAIN IN PLACE UNTIL ALL OF THE FOLLOWING HAS OCCURRED:
   a. ALL BACKFILL HAS BEEN PLACED AND COMPACTED PER RECOMMENDATIONS FROM THE REFERENCED GEOTECHNICAL ENGINEERING REPORT.
   b. CONCRETE WALL HAS REACHED A MINIMUM OF 75% OF ITS 28-DAY DESIGN STRENGTH (f'_c).
   c. CONCRETE SLAB ON GRADE AT THE TOP OF THE WALL HAS BEEN CAST AND REACHED A MINIMUM OF 75% OF ITS 28-DAY DESIGN STRENGTH (f'_c).
   d. ELEVATED POST-TENSIONED CONCRETE SLAB AT THE TOP OF THE WALL HAS BEEN CAST, POST-TENSIONING TENDONS STRESSED, AND CONCRETE HAS REACHED A MINIMUM OF 75% OF ITS 28-DAY DESIGN STRENGTH (f'_c).

L. FOUNDATION WALLS THAT HAVE BEEN DESIGNED AS CANTILEVER WALLS SHALL NOT REQUIRE LATERAL BRACING DURING OR AFTER BACKFILLING, PROVIDED THAT ALL COMPACTION OF SOILS/FILL BEHIND THE WALL IS PERFORMED ONLY BY HAND OPERATED EQUIPMENT IN THE ZONE OCCURRING WITHIN 5'-0" OF THE BACK FACE OF THE WALL.
1. SHOULD THE CONTRACTOR OPT TO USE A REMOTE CONTROLLED COMPACTOR TO COMPACT SOILS IN THE ZONE OCCURRING WITHIN 5'-0" OF THE BACK FACE OF THE WALL, THAT IS ACCEPTABLE PROVIDED THAT THE COMPACTOR IS ONE OF THOSE LISTED BELOW:
   a. WACKER NEUSON RT SERIES OR RTX SERIES TRENCH ROLLER
   b. ALTERNATE EQUIPMENT APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

M. CONTRACTOR TO PROVIDE TEMPORARY DE-WATERING IN EXCAVATIONS RESULTING FROM SURFACE WATER, GROUND WATER OR SEEPAGE, AS RECOMMENDED BY THE REFERENCED GEOTECHNICAL ENGINEERING REPORT.
1. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF CONSTRUCTION DEWATERING NECESSARY FOR ANY REQUIRED EXCAVATION. THE CONTRACTOR SHALL SUBMIT THE PROPOSED PLAN FOR CONSTRUCTION DEWATERING TO THE GEOTECHNICAL ENGINEER FOR REVIEW, PRIOR TO COMMENCEMENT OF THE EXCAVATION.

N. UNDER-SLAB DRAINAGE SYSTEMS, IF REQUIRED, ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. DRAINAGE SYSTEMS SHALL BE PROVIDED AS RECOMMENDED BY THE REFERENCED GEOTECHNICAL ENGINEERING REPORT.

O. UNDER-SLAB VAPOR MITIGATION SYSTEMS (VMS), IF REQUIRED, ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE DESIGN OF THESE SYSTEMS SHALL BE PROVIDED BY OTHERS AND SUBMITTED TO THE DESIGN TEAM FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. COORDINATION WITH STRUCTURAL FOUNDATIONS MAY BE REQUIRED, DEPENDING UPON THE NATURE OF THE FOUNDATION SYSTEM, SLAB ON GRADE, AND VMS SYSTEM DESIGN.

P. UNLESS DIRECTION PROVIDED BY THE GEOTECHNICAL ENGINEER IN THE REFERENCED GEOTECHNICAL ENGINEERING REPORT STATES THAT MORE STRENUOUS REQUIREMENTS MUST BE MET, SOIL BELOW INTERIOR CONCRETE SLABS ON GRADE AND ANY FILL WITHIN 10'-0" OF BUILDING LIMIT SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR (ASTM D698) IN FINAL TWO (2) FEET OF FILL AND 95% OF STANDARD PROCTOR BELOW.

Q. SUBGRADE PREPARATION FOR SLABS ON GRADE SHALL BE PERFORMED IN ACCORDANCE WITH THE REFERENCED GEOTECHNICAL ENGINEERING REPORT. THE GENERAL CONTRACTOR SHOULD ALSO REFERENCE THE CIVIL DRAWINGS FOR INFORMATION PERTAINING TO SITE GRADING.

R. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL, AND THE MAXIMUM STEP HEIGHT SHALL NOT EXCEED 24". REFERENCE DETAILS IN THE S3-0# SERIES OF THESE DRAWINGS FOR ADDITIONAL INFORMATION.

S. GRADE BEAMS
1. BOTH VERTICAL FACES OF ALL GRADE BEAMS SHALL BE FORMED FOR FULL BEAM DEPTH.
2. GRADE BEAM REINFORCING SHALL BE SUPPORTED WITH A MINIMUM OF 3 INCHES CLEAR COVER USING BEAM BOLSTERS DESIGNED AND MANUFACTURED FOR SUPPORT ON SOIL.

T. CONSTRUCTION COORDINATION
1. SLABS ON GRADE HAVE NOT BEEN DESIGNED FOR CRANE LOADS. THE CONTRACTOR IS CAUTIONED AGAINST LOADING THE SLAB-ON-GRADE (AS SHOWN ON THESE DRAWINGS) WITH CRANE LOADS.
   a. SHOULD CONSTRUCTION SEQUENCING REQUIRE THAT ONE OR MORE SLABS ON GRADE BE DESIGNED TO RESIST CRANE LOADS, THE GENERAL CONTRACTOR IS REQUIRED TO EITHER (A) PRODUCE AND SUBMIT A COMPLETE DESIGN FOR THE NECESSARY SLAB(S) ON GRADE, INCLUDING CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA, OR (B) ENGAGE THE STRUCTURAL ENGINEER OF RECORD TO PROVIDE THE NECESSARY DESIGN.
   b. DESIGNING A SLAB ON GRADE FOR CRANE LOADS WILL RESULT IN AN INCREASE IN SLAB STRENGTH, THICKNESS, AND REINFORCING.
2. THE CONCRETE RETAINING WALLS HAVE NOT BEEN DESIGNED TO RESIST LATERAL LOADS RESULTING FROM CRANE LOADS. THE CONTRACTOR SHALL KEEP ALL CRANE TRACKS AWAY FROM CONCRETE RETAINING WALLS A MINIMUM OF THE WALL HEIGHT OR 15'-0", WHICHEVER IS GREATER.

4. REINFORCED CONCRETE

A. THE DESIGN OF ALL REINFORCED CONCRETE SHALL CONFORM TO ACI 318, IN ACCORDANCE WITH THE GENERAL BUILDING CODE NOTED ABOVE. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318, ACI 318.1 AND ACI 301.

B. CONCRETE TEST REPORTS SHALL BE FURNISHED TO THE DESIGN TEAM AS THEY ARE MADE AVAILABLE BY THE TESTING AGENCY TO ENSURE THAT REVIEW OF CONCRETE STRENGTH IS AN ON-GOING PROCESS. CONCRETE TEST REPORTS SHALL ALSO BE AVAILABLE AT THE JOB SITE.

C. CONCRETE MIX DESIGNS SHALL BE ESTABLISHED BY THE SUPPLIER IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318, CHAPTER 5. MIX DESIGNS SHALL BE SUBMITTED WITH BACK-UP DATA, PER ACI 318, CHAPTER 5, §5.3 OR §5.4, TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO CONCRETE PLACEMENT. THE PROPOSED MATERIALS AND CONCRETE MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY AND/OR 3RD PARTY SPECIAL INSPECTION AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.

D. CLASSES OF CONCRETE
ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE TABLE BELOW UNLESS NOTED OTHERWISE ON THESE DRAWINGS:

USAGE	COMPRESSIVE STRENGTH (f'_c)	AGGREGATE SIZE (IN.)	CONCRETE EXPOSURE CLASSES
SPREAD FOOTINGS	3,000	1.00	F0, S0, P0, C1
CONTINUOUS FOOTINGS	3,000	1.50	F0, S0, P0, C1
GRADE BEAMS	3,000	1.00	F0, S0, P0, C1
PILASTERS	4,000	1.00	F0, S0, P0, C1
PEDESTALS	4,000	1.00	F0, S0, P0, C1
RETAINING WALLS	4,000	1.00	F0, S0, P0, C1
RETAINING WALLS (EXTERIOR, EXPOSED)	4,500	1.00	F2, S0, P0, C1
INTERIOR SLABS ON GRADE	3,000	1.00	F0, S0, P0, C1
EXTERIOR SLABS ON GRADE	4,500	1.00	F2, S0, P0, C1
CONCRETE SLAB AND BEAM FRAMING	5,000	0.75	F0, S0, P0, C0
COLUMNS (INTERIOR)	SEE SCHEDULE	1.00	F0, S0, P0, C0
COLUMNS (EXTERIOR, EXPOSED)	SEE SCHEDULE	1.00	F1, S0, P0, C1
SLABS ON METAL DECK	3,500	0.75	F0, S0, P0, C0
NON-STRUCTURAL TOPPING	3,000	0.75	F0, S0, P0, C0
STRUCTURAL PRECAST	5,000 (MIN.)	0.75	F1, S0, P0, C1

1. COMPRESSIVE STRENGTH NOTED ABOVE SHALL BE THE 28-DAY COMPRESSIVE STRENGTH FOR ALL CONCRETE MIXES WITH A REQUIRED STRENGTH OF 6,500 PSI OR LESS.
2. COMPRESSIVE STRENGTH NOTED ABOVE SHALL BE THE 56-DAY COMPRESSIVE STRENGTH FOR STRENGTHS 7,000 PSI AND HIGHER
3. IN ADDITION TO THE MINIMUM COMPRESSIVE STRENGTH REQUIREMENT, CONCRETE MIX DESIGNS FOR ELEVATED HORIZONTAL FRAMING (SLABS, BEAMS, GIRDERS, ETC.), COLUMNS, AND WALLS SHALL BE PROPORTIONED FOR A MAXIMUM WATER-CEMENT RATIO OF 0.45.
4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNLESS OTHERWISE NOTED.
5. CONCRETE SLUMP SHALL BE 4", ±1", AT LOCATION OF DISCHARGE, UNLESS OTHERWISE NOTED.
6. ALL CONCRETE MIX DESIGNS SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.05% AS DETERMINED BY ASTM C157 (MEASURED AT 28 DAYS AFTER CURING IN LIME WATER WITH AIR STORAGE).
7. ALL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN 4.5% - 6.0% ENTRAINED AIR, AS REQUIRED PER TABLE 4.4.1 IN ACI 318.
8. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.
9. PORTLAND CEMENT SHALL CONFORM TO ASTM C15O, TYPE I.
10. SUPPLEMENTARY cementitious MATERIALS, AS LISTED BELOW, MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT IN A CONCRETE MIX DESIGN. THE MAXIMUM PERCENTAGE OF REPLACEMENT IS SHOWN FOR EACH TYPE OF cementitious MATERIAL IN THE CHART BELOW.
   a. FLY ASH MEETING THE REQUIREMENTS OF EITHER TYPE "C" OR TYPE "F" PER ASTM C618.
   b. GROUND GRANULATED BLAST-FURNACE SLAB MEETING THE REQUIREMENTS OF ASTM C989.
   c. SILICA FUME MEETING THE REQUIREMENTS OF ASTM C1240.

RECOMMENDED LIMITS ON CEMENTITIOUS MATERIALS FOR CONCRETE MIX DESIGNS	
cementitious MATERIAL(S)	MAXIMUM PERCENT OF REPLACEMENT, BY MASS
FLY ASH CONFORMING TO ASTM C618	25%
SLAG CEMENT CONFORMING TO ASTM C989	50%
SILICA FUME CONFORMING TO ASTM C1240	10%
TOTAL COMBINED AMOUNT OF FLY ASH (ASTM C618) AND SILICA FUME (ASTM C1240)	35%
TOTAL COMBINED AMOUNT OF FLY ASH (ASTM C618), SLAG CEMENT (ASTM C989) AND SILICA FUME (ASTM C1240)	50%

11. WHERE SUPPLEMENTARY CEMENTITIOUS MATERIALS (FLY ASH, SLAG AND/OR SILICA FUME) ARE TO BE USED IN CONCRETE MIX DESIGNS INTENDED FOR POST-TENSIONED CONCRETE CONSTRUCTION, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT MIX DESIGN INFORMATION THAT IS SUBMITTED FOR REVIEW AND APPROVAL CONTAINS HISTORICAL BREAK DATA FOR EARLY AGE CYLINDER BREAKS. EARLY AGE SHALL BE DEFINED AS 1-DAY, 2-DAY OR 3-DAY BREAKS. WHILE NOT A CODE REQUIREMENT, THE EARLY BREAK HISTORY IS NEEDED TO EVALUATE THE ABILITY OF THE MIX TO ACHIEVE ADEQUATE STRENGTH GAIN TO ENSURE THAT POST-TENSIONING TENDONS CAN BE STRESSED WITHIN 72 HOURS OF CONCRETE BEING CAST.

E. HORIZONTAL CONSTRUCTION JOINTS
1. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN THE PLACEMENT OF ELEVATED CONCRETE SLABS OR SLABS ON GRADE.
2. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN THE PLACEMENT OF CONCRETE JOISTS, BEAMS OR GIRDERS, UNLESS SPECIFICALLY SHOWN ON THIS SET OF STRUCTURAL DRAWINGS. ANY DEVIATIONS SHALL BE SUBMITTED TO, AND APPROVED IN WRITING BY, THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL NOT PROCEED UNTIL WRITTEN APPROVAL BY THE ENGINEER OF RECORD HAS BEEN PROVIDED.
   a. IT IS LIKELY THAT THE ADDITION OF A HORIZONTAL CONSTRUCTION JOINT WITHIN THE DEPTH OF A CONCRETE JOIST, BEAM OR GIRDER WILL RESULT IN CHANGES TO THE MEMBER DESIGN THAT TRANSLATE INTO CHANGES TO THE REINFORCING.
3. HORIZONTAL CONSTRUCTION JOINTS THRU COLUMNS SHALL OCCUR AT THE SOFFIT OF SLABS, DROP PANELS, OR BEAMS, UNLESS SPECIFICALLY SHOWN OTHERWISE IN THIS SET OF STRUCTURAL DRAWINGS. IF ADDITIONAL HORIZONTAL CONSTRUCTION JOINTS ARE REQUIRED AS A RESULT OF CONSTRUCTION SEQUENCING, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE THE ENGINEER OF RECORD AWARE OF THE LOCATIONS WHERE THIS CONDITION EXISTS. SHOP DRAWINGS SHALL BE PREPARED SUCH THAT THESE CONDITIONS ARE NOTED AND ADDITIONAL REINFORCING IS PROVIDED, AS REQUIRED.
4. HORIZONTAL CONSTRUCTION JOINTS THRU SHEAR WALLS SHALL OCCUR AT THE SOFFIT OF SLABS, DROP PANELS, OR BEAMS, UNLESS SPECIFICALLY SHOWN OTHERWISE IN THIS SET OF STRUCTURAL DRAWINGS. IF ADDITIONAL HORIZONTAL CONSTRUCTION JOINTS ARE REQUIRED AS A RESULT OF CONSTRUCTION SEQUENCING, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE THE ENGINEER OF RECORD AWARE OF THE LOCATIONS WHERE THIS CONDITION EXISTS. SHOP DRAWINGS SHALL BE PREPARED SUCH THAT THESE CONDITIONS ARE NOTED AND ADDITIONAL REINFORCING IS PROVIDED, AS REQUIRED.
5. HORIZONTAL CONSTRUCTION JOINTS THRU CONCRETE CANTILEVER RETAINING WALLS AND/OR CONCRETE BASEMENT WALLS ARE ACCEPTABLE, PROVIDED THAT WALL REINFORCING IS DETAILED AND PROVIDED PER THE DETAILS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS.

F. VERTICAL CONSTRUCTION JOINTS
1. VERTICAL CONSTRUCTION JOINTS IN ELEVATED CONCRETE SLABS, JOISTS, BEAMS AND/OR GIRDERS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE REQUIREMENTS SET FORTH IN THIS SET OF STRUCTURAL DRAWINGS. WHERE MEMBERS ARE POST-TENSIONED, CONSTRUCTION JOINT LOCATIONS MUST ALSO BE COORDINATED WITH THE LAYOUT OF POST-TENSIONING TENDONS, AS WELL AS THE POST-TENSIONING STRESSING SEQUENCE.
2. VERTICAL CONSTRUCTION JOINTS THRU COLUMNS SHALL NOT OCCUR.
3. VERTICAL CONSTRUCTION JOINTS THRU SHEAR WALLS SHALL NOT OCCUR WITHOUT HAVING BEEN REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD, AND APPROVAL PROVIDED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
   a. IT IS LIKELY THAT THE ADDITION OF A VERTICAL CONSTRUCTION JOINT THRU A CONCRETE SHEAR WALL WILL RESULT IN CHANGES TO THE WALL DESIGN THAT TRANSLATE INTO CHANGES TO THE REINFORCING.
4. VERTICAL CONSTRUCTION JOINT LOCATIONS IN CONCRETE CANTILEVER RETAINING WALLS AND CONCRETE BASEMENT WALLS SHALL BE DETERMINED BY THE GENERAL CONTRACTOR, AND SHALL BE IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE SET OF STRUCTURAL DRAWINGS. SPACING OF VERTICAL CONSTRUCTION JOINTS SHALL NOT EXCEED 60'-0". VERTICAL CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY MECHANICAL MEANS AND CLEANED.

G. REFER TO ARCHITECTURAL DRAWINGS FOR CLIPS, GROOVES, ROUNDS, ETC., TO BE CAST IN CONCRETE AND CONCRETE FINISHES. CHAMFER OR ROUND ALL EXPOSED CORNERS, MINIMUM 3/4".

H. VERTICAL SLEEVED OPENINGS THRU ELEVATED CONCRETE SLABS, JOISTS, BEAMS AND/OR GIRDERS
1. SLEEVES FOR PLUMBING, ELECTRICAL, MECHANICAL, SPRINKLER, DATA, ETC. SHALL BE PLACED PRIOR TO FINAL INSPECTION OF REINFORCING. PLACEMENT SHALL BE PER THE APPROVED SLEEVING SHOP DRAWINGS SUBMITTED BY THE GENERAL CONTRACTOR FOR REVIEW AND APPROVAL BY THE DESIGN TEAM.
   ** SLEEVE SIZES AND LOCATIONS ARE NOT KNOWN DURING THE DESIGN PHASE OF THE PROJECT. FOR THAT REASON, SLEEVES (AND OTHER SMALL OPENINGS) IN THE ELEVATED CONCRETE FRAMING HAVE NOT BEEN ACCOUNTED FOR BY E+M.
   ** DURING REVIEW OF THE SLEEVING SHOP DRAWINGS (PREPARED BY THE GENERAL CONTRACTOR), THERE IS A POSSIBILITY THAT THE SIZE, LOCATION AND/OR QUANTITY OF SLEEVES MAY RESULT IN CHANGES NEEDING TO BE MADE TO THE MILD REINFORCING, POST-TENSIONING TENDONS AND/OR STUD RAIL IN THE ELEVATED CONCRETE SLAB.
2. REINFORCE AROUND SLEEVES AS SHOWN IN THE DETAILS IN THIS SET OF STRUCTURAL DRAWINGS.
3. PROVIDE CLEARANCE BETWEEN SLEEVES AS SHOWN IN THE DETAILS IN THIS SET OF STRUCTURAL DRAWINGS.
4. PROVIDE CLEARANCE BETWEEN SLEEVES AND REBAR OF NO LESS THAN 2".
5. PROVIDE CLEARANCE BETWEEN SLEEVES AND POST-TENSIONING TENDONS OF NO LESS THAN 3".
6. PROVIDE CLEARANCE BETWEEN SLEEVES AND SLAB EDGES OF NO LESS THAN 3".
7. PROVIDE CLEARANCE BETWEEN SLEEVES AND BEAM REINFORCING AND/OR BEAM VERTICAL FACES AS SHOWN IN THE DETAILS IN THIS SET OF STRUCTURAL DRAWINGS.
8. IF SLEEVES ARE OMITTED AND THE GENERAL CONTRACTOR MUST LATER CORE THE CONCRETE, THE GENERAL CONTRACTOR SHALL FIRST CONTACT THE ENGINEER OF RECORD. NO CORING OF ELEVATED CONCRETE FRAMING SHALL OCCUR WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

I. VERTICAL SLEEVED OPENINGS THRU SOIL-SUPPORTED CONCRETE SLABS ON GRADE
1. REINFORCE AROUND SLEEVES AS SHOWN IN THE DETAILS IN THIS SET OF STRUCTURAL DRAWINGS.
2. PROVIDE CLEARANCE BETWEEN SLEEVES AS SHOWN IN THE DETAILS IN THIS SET OF STRUCTURAL DRAWINGS.
3. PROVIDE CLEARANCE BETWEEN SLEEVES AND REBAR OF NO LESS THAN 2".
4. IF SLEEVES ARE OMITTED AND THE GENERAL CONTRACTOR MUST LATER CORE CONCRETE SLAB ON GRADE, THE GENERAL CONTRACTOR MAY PROCEED WITH CORING WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD
   a. IF THE SOIL-SUPPORTED CONCRETE SLAB ON GRADE IS POST-TENSIONED, CORDING SHOULD NOT COMMENCE WITHOUT REVIEW AND WRITTEN APPROVAL FROM THE ENGINEER OF RECORD, AS CORING MAY RESULT IN DAMAGE TO POST-TENSIONING TENDONS THAT MAY REQUIRE FURTHER REMEDIAL WORK.

J. CONDUIT LOCATED WITHIN CONCRETE SLABS, JOISTS, BEAMS, GIRDERS, ETC.
1. FOR HARD AND/OR FLEXIBLE CONDUIT IN ELEVATED SLAB FRAMING, SEE DETAILS IN THIS SET OF STRUCTURAL DRAWINGS.
   a. OUTSIDE DIAMETER OF CONDUIT MAY NOT EXCEED 1/3 OF THE SLAB DEPTH.
   b. CONDUIT PLACEMENT MUST BE SUCH THAT THE ENTIRE CONDUIT LIES IN THE MIDDLE 1/3 OF THE SLAB THICKNESS.
   c. IF THERE ARE SITUATIONS WHERE MULTIPLE CONDUIT RUNS CROSS OVER ONE ANOTHER, THE ENTIRETY OF THE CONDUIT IN A GIVEN AREA MUST OCCUR WITHIN THE MIDDLE 1/3 OF THE SLAB THICKNESS.
2. IN ELEVATED BEAM AND/OR GIRDER FRAMING, HARD CONDUIT AND/OR FLEXIBLE CONDUIT MAY RUN CONTINUOUSLY ALONG THE LENGTH OF A BEAM OR GIRDER, PROVIDED THAT IT OCCURS WITHIN THE MIDDLE 1/3 OF THE BEAM DEPTH AND IS LOCATED WITHIN THE OUTERMOST VERTICAL LEGS OF THE STIRRUPS. BEAM MILD AND/OR PT REINFORCING SHALL NOT BE ADJUSTED FOR CONDUIT ROUTING WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. CONDUIT SHALL NOT BE TIED OFF TO BEAM TOP OR BOTTOM REINFORCING BARS.
3. HORIZONTAL CONDUIT IS NOT ALLOWED IN CONCRETE SLABS ON GRADE. CONDUIT SHOULD BE ROUTED BELOW THE SLAB.
4. REFER TO THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR CONDUIT SIZE, TYPE, MATERIAL, LAYOUTS, ETC.

K. REINFORCING STEEL
1. ALL REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE ON THESE DRAWINGS OR IN THE NOTES BELOW.
   a. BAR SIZES #3 THRU #10 (INCLUSIVE) - ASTM A615, GRADE 60
   b. BAR SIZES #11, #14, #18 - ASTM A615, GRADE 75
2. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A706 FOR ALL REINFORCING STEEL REQUIRED TO BE WELDED AND WHERE NOTED ON THESE DRAWINGS.
3. PROVIDE GALVANIZED REINFORCING STEEL IN ACCORDANCE WITH ASTM A767 CLASS II (2.0 OZ ZINC PER SQUARE FOOT), WHERE NOTED ON THESE DRAWINGS.
4. PROVIDE EPOXY-COATED REINFORCING STEEL CONFORMING TO ASTM A775 WHERE NOTED ON THESE DRAWINGS.
5. PROVIDE DEFORMED BAR ANCHORS CONFORMING TO ASTM A496 (75,000 PSI YIELD STRENGTH) WHERE NOTED ON THESE DRAWINGS. REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR DEFORMED BAR ANCHORS. ALL REINFORCING BAR BENDS TO BE MADE COLD.
6. PROVIDE WELDED SMOOTH WIRE REINFORCEMENT CONFORMING TO ASTM A1064 (65,000 PSI YIELD STRENGTH) AND SHALL BE PROVIDED IN FLAT SHEETS WHERE NOTED ON THESE DRAWINGS.
7. PROVIDE WELDED DEFORMED WIRE REINFORCEMENT CONFORMING TO ASTM A497 (70,000 PSI YIELD STRENGTH) WHERE NOTED ON THESE DRAWINGS.
8. FLAT BAR STOCK USED TO FABRICATE STUD RAILS SHALL BE ASTM A572 GRADE 50 (F_y= 50 ksi, F_u = 65 ksi).
9. HEADED STUDS USED TO FABRICATE STUD RAILS SHALL BE ASTM A108 (F_y = 51 ksi, F_u = 65 ksi).

L. WHERE WELDED WIRE REINFORCEMENT IS SPECIFIED, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE WITHOUT INTERRUPTION BY BEAMS, GIRDERS, OR COLUMNS. SPLICES SHALL BE LAPPED ONE CROSS WIRE SPACING PLUS 2 INCHES.

M. PROVIDE WELDED SMOOTH WIRE REINFORCEMENT (WWR 6x6-W2.9xW2.9, MINIMUM) IN ALL TOPPING SLABS AND HOUSEKEEPING SLABS, UNLESS SPECIFIED OTHERWISE ON THESE DRAWINGS.

N. CONCRETE PROTECTION FOR REINFORCEMENT OF CAST-IN-PLACE MEMBERS SHALL BE IN ACCORDANCE WITH ACI 318, §7.7. UNLESS NOTED OTHERWISE. MINIMUM CLEAR COVER OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS.
1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH....... 3.00"
2. CONCRETE EXPOSED TO EARTH AND/OR WEATHER
   - NO. 6 THROUGH NO. 11 BARS....... 2.00"
   - NO. 5 BAR AND SMALLER....... 1.50"
   - POST-TENSIONED SLABS....... 1.00"
   - POST-TENSIONED BEAMS....... 1.50"
3. CONCRETE NOT EXPOSED TO WEATHER AND NOT IN CONTACT WITH GROUND
   - SLABS, WALLS, JOISTS W/ NO. 11 BAR AND SMALLER....... 0.75"
   - BEAMS
     - PRIMARY REINFORCING (TOP, BOTTOM BARS)....... 2.00"
     - STIRRUPS....... ≥1.50"
   - COLUMNS
     - VERTICAL BARS....... ≥2.00"
     - TIES, SPIRALS....... ≥1.50"
   - POST TENSIONED BEAMS (PRIMARY REINFORCEMENT)....... 1.50"
   - POST TENSIONED BEAMS (TIES/STIRRUPS)....... 1.00"
   - POST TENSIONED SLABS (REBAR BOTTOM COVER AT END SPANS)....... 1.50"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
GENERAL NOTES

S-001
Sheet Number

NOT ISSUED FOR CONSTRUCTION

O. THE FOLLOWING NOTATION IS USED ON THESE DRAWINGS TO DENOTE REINFORCING STEEL DEVELOPMENT LENGTHS AND SPLICE TYPES:

CD	COMPRESSION DEVELOPMENT LENGTH
TD	TENSION DEVELOPMENT LENGTH
CS	COMPRESSION LAP SPLICE
EB	END-BEARING COMPRESSION SPLICE
M	MECHANICAL SPLICE (MINIMUM 125% YIELD STRENGTH)
A	CLASS A TENSION LAP SPLICE
B	CLASS B TENSION LAP SPLICE

REFER TO TABLES ON THESE DRAWINGS FOR MINIMUM DEVELOPMENT AND SPLICE LENGTHS.

P. UNSCHEDULED BEAMS AND SLABS, INCLUDING GRADE BEAMS, SHALL HAVE CONTINUOUS TOP BARS LAPPED AT MIDSPAN BETWEEN SUPPORTS WITH A CLASS "A" TENSION SPLICE. BOTTOM BARS SHALL BE LAPPED AT THE SUPPORTS WITH A CLASS "A" TENSION SPLICE.

Q. BARS SHALL BE IN CONTACT WHEN FORMING A LAP SPLICE, UNLESS NOTED OTHERWISE.

R. PROVIDE CORNER BARS AT ALL TURN-DOWN SLAB CORNERS AND CAST-IN-PLACE CONCRETE WALL CORNERS. PROVIDE CLASS "B" LAP SPLICE BETWEEN CORNER BARS AND MAIN REINFORCING.

S. VERTICAL BARS PLACED ON THE DIRT-FACING SIDE OF BASEMENT WALLS SHALL BE SPLICED AT MIDSPAN BETWEEN SUPPORTS WITH A CLASS "A" TENSION SPLICE. VERTICAL BARS LACED OPPOSITE THE DIRT-FACING SIDE SHALL BE LAPPED AT THE SUPPORTS WITH A CLASS "A" TENSION SPLICE. HORIZONTAL BARS SHALL HAVE A LAP SPLICE AS SHOWN IN THE LAP SPLICE TABLES.

T. REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED WITH A CLASS "B" LAP SPLICE, UNLESS SPECIFICALLY DETAILED OTHERWISE. PROVIDE CONTINUOUS REINFORCEMENT WHERE EVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE TENSION SPLICE (CLASS "B"), UNLESS NOTED OTHERWISE.

U. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED WALL OR COLUMN REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES (CLASS "B"), UNLESS NOTED OTHERWISE.

V. HORIZONTAL REINFORCEMENT IN FOOTINGS, TURNDOWN SLABS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS. HORIZONTAL REINFORCEMENT SHALL CONTINUE AT ENDS AND CORNERS WITH BEND TO FAR FACE OF INTERSECTING ELEMENT IN EACH DIRECTION. ADDITIONAL HORIZONTAL CORNER BARS OF SAME SIZE AND SPACING MAY BE PROVIDED. PROVIDE CORNER BARS AT ALL TURN-DOWN SLAB CORNERS AND CAST-IN-PLACE CONCRETE ALL CORNERS. PROVIDE CLASS "B" LAP BETWEEN CORNER BARS AND MAIN REINFORCING.

W. DETAILING, FABRICATION AND PLACING REINFORCING STEEL AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

X. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE. THE GENERAL CONTRACTOR SHALL NOT PLACE ANY REINFORCING UNTIL APPROVED SHOP DRAWINGS ARE RECEIVED AT THE JOB SITE.

Y. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE. TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

Z. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS DIRECTED TO DO SO IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

AA. ALL CONCRETE CONSTRUCTION SHALL BE INSPECTED BY OR BE UNDER SUPERVISION OF A LICENSED DESIGN PROFESSIONAL OR BY A QUALIFIED SPECIAL INSPECTOR.

AB. WHERE INDICATED ON THE PLANS, REINFORCING BAR STANDARD HOOKS MAY BE REPLACED WITH LENTON TERMINATORS PER ICC ER 3967.

AC. WHERE INDICATED ON THE PLANS, CLASS "B" TENSION LAP SPLICES MAY BE REPLACED WITH TYPE 2 MECHANICAL SPLICES PER ICC ER 5064 OR ICC ER 5461.

AD. THE GENERAL CONTRACTOR SHALL INCLUDE IN THEIR PRICE 50 YARDS OF 5,000 PSI CONCRETE TO BE PLACED AT THE DIRECTION OF THE ENGINEER OF RECORD. A CREDIT SHALL BE GIVEN BACK TO THE OWNER AFTER PROJECT COMPLETION FOR CONCRETE NOT PLACED.

AE. PROVIDE FOR AN ALLOWANCE OF 1.50% OF REINFORCING BAR TONNAGE TO BE FABRICATED AND PLACED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER, IN ADDITION TO ALL THE STEEL INDICATED ON THE DRAWINGS.

5. POST-TENSIONED CONCRETE

A. POST-TENSIONED REINFORCEMENT SHALL BE UNBONDED, SINGLE STRAND, UNLESS NOTED OTHERWISE ON THESE DRAWINGS.
1. POST-TENSIONING STRAND SHALL CONFORM TO ASTM A416-96 (LOW RELAXATION TYPE), WITH A MINIMUM ULTIMATE STRENGTH OF 270 KIPS, BASED ON NOMINAL AREA.
2. DEFORMED THREAD BARS SHALL CONFORM TO ASTM A722, WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 150 KSI.

B. FORCES SHOWN ON THESE DRAWINGS ARE EFFECTIVE FORCES AFTER ALL IMMEDIATE AND LONG TERM LOSSES. IT IS THE RESPONSIBILITY OF THE POST-TENSIONING SUPPLIER TO DETERMINE THE MAGNITUDE OF THE LOSSES AND ALSO THE REQUIRED JACKING FORCES IN THE TENDONS. CALCULATIONS FOR TENDON LOSSES SHALL BE FURNISHED TO THE DESIGN TEAM AS A PART OF THE POST-TENSION SHOP DRAWINGS.
1. ½" DIAMETER TENDONS SHALL BE ANCHORED AT 28.9K PER STRAND, BUT MAY BE INITIALLY STRESSED AT 33.0K PER STRAND.

C. PROFILE DIMENSIONS SHOWN ON THESE DRAWINGS LOCATE THE CENTER OF GRAVITY OF TENSION STEEL OR TENDON GROUP (C.G.S), MEASURED FROM THE MEMBER SOFFIT. TENDONS SHALL CONFORM TO THE CONTROL POINTS SHOWN ON THESE DRAWINGS AND SHALL HAVE PARABOLIC DRAPE BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE. HARPED TENDONS SHALL BE STRAIGHT BETWEEN CONTROL POINTS. LOW POINTS SHALL BE AT MIDSPAN UNLESS SHOWN OR NOTED.

D. THE FOLLOWING REQUIREMENTS FOR POST-TENSIONING TENDONS SHALL FOLLOWED:
1. SHEATHING THICKNESS FOR TENDONS SHALL NOT BE LESS THAN 0.050 INCHES FOR MEDIUM-DENSITY OR HIGH-DENSITY POLYETHYLENE OR POLYPROPYLENE.
2. CORROSION PREVENTIVE COATING AT THE EXPOSED TENDON AND REPAIRING THE DAMAGED PORTIONS OF SHEATHING SHALL BE REPAIRED BY RE-APPLYING THE SHEATHING IN A WATERTIGHT FASHION WITH AT LEAST ONE NEW LAYER OF SHEATHING COMPLETELY SPIRALLY WRAPPED WITH AT LEAST TWO LAYERS OF ADHESIVE MOISTURE-PROOF TAPE.
3. PRIOR TO GROUTING THE ANCHOR RECESSES, THE INSIDE CONCRETE SURFACES OF THE POCKET SHALL BE COATED OR SPRAYED WITH A RESIN, CORROSION RESISTANT, BONDING AGENT.

E. EXTRA CORROSION PROTECTION OF THE ANCHORAGES AND SHEATHING SHALL BE PROVIDED BY ENCAPSULATION, AS REQUIRED BY THE REFERENCED BUILDING CODE. ENCAPSULATED ANCHORAGES SHALL INCLUDE THE HARDWARE AND MATERIALS NECESSARY TO PROVIDE A WATERTIGHT CONNECTION OF THE SHEATHING TO THE ANCHORAGE AND WATERTIGHT CLOSING OF THE WEDGE CAVITY. THE METHOD FOR PROVIDING WATERTIGHT ANCHORAGES AND CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE APPROVAL OF ANY POST-TENSIONING STEEL SHOP DRAWINGS.

F. POST-TENSIONING OPERATIONS SHALL NOT BEGIN UNTIL CONCRETE TEST CYLINDERS CURED UNDER FIELD CONDITIONS INDICATE THAT THE CONCRETE HAS ATTAINED 60% OF THE 28-DAY CONCRETE STRENGTH (f'_c), BUT NOT LESS THAN 3,000 PSI, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. THE STRENGTH OF CONCRETE AT TRANSFER, f'_{ci}, SHALL ALSO BE ADEQUATE FOR THE REQUIREMENTS OF THE ANCHORAGES.

G. TYPICAL BURSTING REINFORCEMENT SHALL BE PROVIDED AS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS. IF ADDITIONAL BURSTING REINFORCEMENT IS NECESSARY, IT SHALL BE SPECIFIED BY THE POST-TENSIONING SUPPLIER. ALTERNATE OR ADDITIONAL BURSTING REINFORCEMENT REQUIRED FOR THE POST-TENSIONING SYSTEM HARDWARE SHALL BE DESIGNED AND DETAILED BY THE POST-TENSIONING SUPPLIER. CALCULATIONS FOR BURSTING REINFORCEMENT SHALL BE SUBMITTED FOR ENGINEER APPROVAL.

H. ALL POCKETS OR BLOCK-OUTS REQUIRED FOR ANCHORAGES SHALL BE ADEQUATELY REINFORCED SO AS NOT TO DECREASE THE STRENGTH OF THE STRUCTURE. ALL POCKETS SHALL BE WATERPROOFED TO ELIMINATE WATER LEAKAGE THROUGH OR INTO THE POCKET. BLOCK-OUT FORMS OR POCKET FORMERS SHALL NOT BE COATED WITH GREASE, FORM OIL, OR ANY OTHER SUBSTANCE THAT MAY DECREASE THE BONDING OF THE PATCHING GROUT TO THE SURROUNDING CONCRETE.

I. THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD A SUMMARY OF ALL STRESSING OPERATIONS FOR EACH STRESSING SEQUENCE. THIS INFORMATION SHALL BE SUBMITTED WITHIN 36 HOURS OF STRESSING TO ENSURE THAT A REVIEW OF THE DATA CAN BE COMPLETED. THE SUBMITTED SUMMARY SHALL INCLUDE THE CALCULATED AND ACTUAL MEASURED ELONGATIONS FOR EACH JACKING POINT FOR EACH TENDON, THE STRESSING RAM NUMBER AND JACKING PRESSURE OR FORCE FOR EACH TENDON, AND THE DATE OF STRESSING AND SIGNATURE OF CONTRACTOR'S STRESSING PERSONNEL.
1. THE MEASURED ELONGATIONS SHOWN ON THE SUMMARY SHOULD MATCH THE MEASURED ELONGATIONS SHOWN ON THE FIELD-USE COPY OF THE POST-TENSION SHOP DRAWINGS.
2. PROPER CALIBRATION OF THE RAM MUST BE COMPLETED PRIOR TO STRESSING TENDONS. PROOF OF THE RAM CALIBRATION SHALL BE MADE AVAILABLE AT THE REQUEST OF THE STRUCTURAL ENGINEER OF RECORD.
3. SATISFACTORY INSTALLATION (STRESSING) OF TENDONS SHALL BE DEFINED AS THE MEASURED ELONGATION BEING WITHIN ±7.0% OF THE CALCULATED ELONGATION.

J. TENDON ENDS (TAILS) SHALL NOT BE CUT OFF UNTIL ALL TENDONS HAVE BEEN SATISFACTORILY STRESSED AND THE ELONGATION RECORDS REVIEWED. STRESSING END ANCHORAGES AND POCKETS SHALL BE SEALED AS FOLLOWS:
1. CUT STRAND OFF INSIDE FACE OF CONCRETE. CARE SHALL BE TAKEN TO AVOID HEATING THE WEDGES.
2. COAT ANCHORAGE WITH RUST-O-LEUM, Z.R.C. COLD GALVANIZING COMPOUND, OR OTHER EQUIVALENT ENGINEER-APPROVED CORROSION PROTECTION. CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE ANCHORAGE RECESS SURFACE, WHICH MAY REDUCE THE BONDING CAPACITY OF THE NON-SHRINK GROUT.
3. PATCH POCKET WITH MASTER BUILDERS MASTERFLOW 713, L&M CONSTRUCTION CHEMICALS CRYSTEX, SIMPSON STRONG-TIE FX-228, OR OTHER EQUIVALENT ENGINEER-APPROVED NON-METALLIC NON-SHRINK GROUT. CARE SHALL BE TAKEN TO PROPERLY PREPARE THE CONCRETE SURFACE AND CURE THE PATCHING GROUT ACCORDING TO GROUT MANUFACTURER'S INSTRUCTIONS.

K. WELDING IN THE VICINITY OF POST-TENSIONING TENDONS IS NOT ALLOWED. TENDONS SHALL NOT BE USED AS AN ELECTRICAL GROUND FOR ANY WELDING OPERATIONS.

L. CONSTRUCTION JOINTS LOCATIONS IN POST-TENSIONED MEMBERS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL (TYPICALLY AS A PART OF THE POST-TENSIONED REINFORCING SHOP DRAWINGS).
1. CONSTRUCTION JOINTS SHALL BE LOCATED WHERE THE C.G.S. (CENTER OF GRAVITY - STEEL) COINCIDES WITH THE C.G.C. (CENTER OF GRAVITY - CONCRETE SECTION).
2. CALCULATED ELONGATIONS (COMPLETED BY THE TENDON SUPPLIER AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW) MUST BE COORDINATED WITH CONSTRUCTION JOINT LOCATIONS. ELONGATION CALCULATIONS MUST REFLECT THE NEED FOR TENDONS TO BE STRESSED MORE THAN ONCE, AND THE REPORTED ELONGATIONS SHOULD BE SHOWN FOR EACH STRESSING OF EACH TENDON.
3. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CONSTRUCTION JOINT LOCATIONS ARE COORDINATED WITH FORMWORK AND REBAR SHOP DRAWINGS.

6. STRUCTURAL PRECAST CONCRETE NOTES

A. ALL PRECAST SUPERSTRUCTURE ELEMENTS SHALL BE DESIGNED BY PRECAST SPECIALTY ENGINEER THAT IS LICENSED IN THE STATE OF SOUTH CAROLINA. SIGNED AND SEALED CALCULATIONS AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OF PRECAST.

B. TYPICAL PRECAST FRAMING TO CONSIST OF 8" DEEP FIELD TOPPED HOLLOW CORE PLANKS SUPPORTED BY COLD FORMED METAL FRAMED WALLS, STRUCTURAL STEEL FRAMING OR CONCRETE MASONRY WALLS.

C. PRECAST SPECIALTY ENGINEER SHALL DESIGN THE LATERAL FORCE RESISTING SYSTEM, INCLUDING ALL SHEAR WALLS, MOMENT FRAMES AND DIAPHRAGMS, FOR THE APPLICABLE WIND AND SEISMIC LOADS PRESCRIBED IN THE REFERENCED BUILDING CODE.
1. WIND AND SEISMIC LOAD CRITERIA HAVE BEEN OUTLINED IN THE GENERAL NOTES, §1, PARTS D (WIND) AND E (SEISMIC).

D. WHERE FIELD-TOPPED PRECAST MEMBERS ARE TO BE USED, THE PRECAST SPECIALTY ENGINEER SHALL PROVIDE THE DESIGN FOR THE TOPPING AND SHOW ALL REINFORCING TO BE PROVIDED IN THE FIELD-CAST TOPPING SLAB.

E. ALL EMBED PLATES, WELD PLATES AND CONNECTIONS TO THE FOUNDATION SHALL BE DESIGNED AND SUPPLIED BY THE PRECAST SPECIALTY ENGINEER.

F. ALL EXPOSED STEEL (EMBED PLATES, WELD PLATES, ETC...) SHALL BE HOT DIPPED GALVANIZED.

G. PRECAST SPECIALTY ENGINEER SHALL DESIGN ALL PRECAST COLUMN BASE PLATES AND ANCHOR BOLTS. PRECAST COLUMN BASE PLATES AND ANCHOR BOLTS TO BE FURNISHED BY THE PRECAST MANUFACTURER. PRECAST COLUMN ANCHOR BOLTS TO BE INSTALLED BY THE GENERAL CONTRACTOR.

H. POUR STRIPS WILL BE PROVIDED, AS COORDINATED BY THE PRECAST SPECIALTY ENGINEER, TO ALLOW FOR CONNECTIONS TO BE WELDED DURING ERECTION OF THE SUPERSTRUCTURE. SEE PRECAST DRAWINGS FOR ADDITIONAL INFORMATION.

I. WHERE CMU WALLS ARE SHOWN IN THE ARCHITECTURAL DRAWINGS SUCH THAT THEY WILL BE SUPPORTED ON ELEVATED PRECAST FRAMING:
1. REINFORCING OF THE CMU WALL(S) (INCLUDING JAMBS, CORNERS, INTERSECTIONS, LINTELS AND BOND BEAMS) WILL BE PER INFORMATION SHOWN IN THE STRUCTURAL DRAWINGS (REFERENCE SHEET S-420).
2. CONNECTION OF THE BOTTOM OF THE CMU WALL(S) TO THE PRECAST SHALL BE DESIGNED AND DETAILED BY THE PRECAST SPECIALTY ENGINEER. CONNECTION SHALL BE ADEQUATE TO RESIST LATERAL LOADS ACTING ON THE WALL(S) DUE TO OUT-OF-PLANE WIND FORCES AND/OR SEISMIC.
3. CONNECTION OF THE TOP OF THE CMU WALL(S) SHALL BE PER CONNECTION DETAILS SHOWN IN THE STRUCTURAL DRAWINGS (REFERENCE SHEET S-421).
4. PRECAST MEMBERS SUPPORTING CMU WALL(S) SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE CMU WALL(S).

7. EXPANSION ANCHORS, ADHESIVE ANCHORS AND POWDER ACTUATED FASTENERS

A. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
1. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A CODE REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION.
2. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS OR TABLE(S) OF PUBLISHED, TABULATED VALUES OBTAINED THROUGH EMPIRICAL INDUSTRY STANDARD TEST PROCEDURES THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.

B. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD INDICATING TRAINING HAS TAKEN PLACE.

C. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE AND PRODUCT EVALUATION REPORTS.

D. THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT.

1. FOR ANCHORING INTO CONCRETE:
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
- HILTI "KWIK HUS EZ" (ICC-ES ESR-3027)

b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. DESIGN FOR BOND STRENGTH HAS BEEN BASED ON CRACKED CONCRETE, ACI 355.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED INTO CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS USING A DRILL BIT QUALIFIED BY THE MANUFACTURER. ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER WHEN REQUIRED PER ACI 318 (§D9.2.2). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318 (§D.9.2.4) PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
- HILTI "RE500-V3" (ICC-ES ESR-3814)

c. ADHESIVES USED FOR REINFORCING BARS FOLLOWING THE CONCEPTS OF DEVELOPMENT AND LAP SPLICE THEORY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
- HILTI "RE500-V3" (ICC-ES ESR-3814)

2. FOR ANCHORING INTO SOLID-GROUTED CONCRETE MASONRY:
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
- HILTI "KWIK HUS EZ" (ICC-ES ESR-3056)

b. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "SET-XP" (IAPMO UES ER-265)
- HILTI "HY-270" (ICC-ES ESR-4143)

3. FOR ANCHORING INTO HOLLOW CONCRETE MASONRY:
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)

b. ADHESIVE ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE PRE-APPROVED ANCHORS INCLUDE:
- SIMPSON STRONG-TIE "SET-XP" (IAMPO UES ER-265)
- HILTI "HY-270" (ICC-ES ESR-4143)

E. WHERE REQUIRED FOR ANCHORAGE TO STEEL, CONCRETE AND/OR CONCRETE MASONRY, POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70.
a. PRE-APPROVED FASTENERS INCLUDE:
- SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
- SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

8. CONCRETE MASONRY

A. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS (F'm) SHALL BE 1,500 PSI.

B. MATERIAL SHALL BE AS FOLLOWS:
CMU.......................... GRADE N, ASTM C-90 (UNIT STRENGTH = 1900 PSI)
MORTAR.................. TYPE S FOR WALLS NOT IN CONTACT WITH EARTH
TYPE M FOR WALLS IN CONTACT WITH EARTH

C. GROUT FOR CONCRETE MASONRY WALL SHALL CONFORM TO ASTM C476, f'c = 3,000 PSI, MIN. GROUT SHALL BE CONSOLIDATED BY THOROUGHLY RODDING ALL CELLS.

D. GROUT PLACEMENT SHALL BE LOW-LIFT. THE CONSTRUCTION JOINTS ARE CREATED BY THE LEVEL OF GROUT STOPPING AT 1-1/2" FROM TOP OF MASONRY AND THE STEEL REINFORCING PROJECTING ABOVE THE TOP COURSE FOR A SUFFICIENT HEIGHT TO PROVIDE A LAP AT THE SPLICE OF 48 BAR DIAMETERS. THE CONSTRUCTION JOINT SHALL BE LOCATED 3'-0" MINIMUM FROM TOP AND BOTTOM OF STRUCTURAL ELEMENTS SUCH AS SLABS, ROOFS, ETC.

E. CONCRETE MASONRY WALLS SHALL BE TEMPORARILY BRACED DURING ERECTION. REMOVE TEMPORARY BRACING ONLY AFTER WALLS ARE CONNECTED TO SUPPORTING ELEMENTS.

F. WHERE APPLICABLE, ALL CONCRETE BLOCK BELOW THE DESIGN FLOOD ELEVATION SHALL HAVE ALL CELLS FILLED WITH GROUT. SEE ARCH. AND CIVIL DRAWINGS FOR ADDITIONAL INFO.

G. ALL CELLS CONTAINING REINFORCEMENT SHALL BE GROUTED SOLID.

H. MAXIMUM CONTROL JOINT SPACING IN MASONRY WALL = 30'-0" UNLESS NOTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.

I. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL NON-LOAD-BEARING CMU WALLS SHALL BE REINFORCED AS SHOWN IN DETAILS ON SHEET S-420. ADDITIONALLY:
1. PROVIDE CONTINUOUS BOND BEAM REINFORCING W/(2)-#5 CONTINUOUS AT ALL FLOOR LEVELS. WHERE FLOOR-TO-FLOOR HEIGHTS EXCEED 11'-0", PROVIDE INTERMEDIATE BOND BEAMS AT 10'-0" MAXIMUM SPACING.
2. PROVIDE CONTINUOUS 9 GAGE TRUSS-TYPE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY (EVERY OTHER COURSE), TYP.

J. DOWEL ALL CMU WALLS INTO GRADE BEAMS, SPREAD FOOTINGS, CONTINUOUS FOOTINGS, THICKENED SLAB ELEMENTS, CONCRETE FOUNDATION WALLS AND/OR ELEVATED CONCRETE FRAMING UPON WHICH IT BEARS. DOWELS SHALL HAVE STANDARD HOOKS INTO THE CONCRETE FOUNDATION, WALL OR FRAMING, TYP. DOWELS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A CLASS "B" TENSION LAP SPLICE. DOWELS SHALL BE OF SAME SIZE AND SPACING AS VERTICAL WALL REINFORCING.

K. SEE ARCHITECTURAL DRAWINGS FOR ALL CMU WALL OPENING SIZES AND LOCATIONS.

L. ALL CMU SHALL BE PLACED IN RUNNING BOND.

M. ALL MASONRY CONSTRUCTION AND INSPECTION SHALL COMPLY WITH ACI 530 AND ACI 530.1.

N. ALL CONCRETE MASONRY CONSTRUCTION SHALL BE INSPECTED AND TESTED PER THE REQUIREMENTS OF ACI 530.1. COSTS OF THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING AND INSPECTION SERVICES SHALL BE BORNE BY THE CONTRACTOR.

O. CMU GROUT FILL SHALL ARRIVE AT THE JOB SITE WITH A SLUMP BETWEEN 3" TO 5". CMU GROUT FILL SHALL ARRIVE AT THE JOB SITE WITH A SLUMP OF 3" - 5". PRIOR TO DEPOSITING GROUT, SUPERPLASTICIZER SHALL BE ADDED TO THE GROUT AT THE JOB SITE, INCREASING THE SLUMP TO 8" - 10".

P. CMU WALL REINFORCING SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO FABRICATION. DRAWINGS SHALL SHOW ALL WALL AND PILASTER REINFORCING IN PLAN AND IN ELEVATION.

Q. PROVIDE CORNER BARS AT ALL BOND BEAMS TO ENSURE CONTINUITY AT CORNERS. LAP CORNER BARS WITH A CLASS "B" TENSION LAP SPLICE.

R. PROVIDE BAR SUPPORTS AND POSITIONERS AS REQUIRED TO ENSURE THAT FINAL IN-PLACE LOCATION OF REINFORCING IS AS INDICATED ON THE DRAWINGS.

S. MASONRY SHALL BE PROTECTED FROM FREEZING DURING PLACEMENT& CURING. COLD WEATHER MASONRY PROCEDURES SHALL COMPLY W/ACI 530 AND ACI 530.1.

T. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL BRACING AND SHORING FOR ALL MASONRY WALLS AS REQUIRED TO ENSURE STABILITY DURING CONSTRUCTION.

U. SIDE AND TOP OF MASONRY WALL PANELS SHALL BE ANCHORED TO STRUCTURE BY DOVETAIL ANCHORS, METAL STRAPS OR STEEL ANGLES. SEE DETAILS ON SHEETS S-42#.

V. BRICK TIES SHALL BE LOCATED/SPACED BOTH VERTICALLY AND HORIZONTALLY AS SPECIFIED BY THE ARCHITECT AND SHALL BE CAPABLE OF SUPPORTING THE BRICK FOR OUT-OF-PLANE LOADING DUE TO WIND AND SEISMIC LOADS. SEE DETAILS ON SHEET S-020 FOR COMPONENT AND CLADDING WIND LOADS.

W. BRICK AND STONE VENEER SHALL HAVE VERTICAL CONTROL JOINTS AT 20'-0" MAXIMUM SPACING. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LAYOUT, AS MORE CLOSELY SPACED CONTROL JOINTS MAY BE NECESSARY AT WINDOWS, DOORS, ETC.

9. STRUCTURAL STEEL

A. QUALIFICATIONS
1. STEEL FABRICATOR(S) FOR THIS PROJECT SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND HAVE A MINIMUM DESIGNATION OF "BU".
2. STEEL ERECTOR(S) FOR THIS PROJECT SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND HAVE A MINIMUM DESIGNATION OF "CSE".
3. ALL PERSONNEL PERFORMING WELDING ON STRUCTURAL COMPONENTS OF THIS PROJECT SHALL BE AWS CERTIFIED.

B. MATERIAL
1. ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6/A6M-17a.
2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, STRUCTURAL STEEL SHALL BE AS FOLLOWS:

SHAPE/TYPE	ASTM DESIGNATION	YIELD/ULTIMATE STRENGTH
WIDE FLANGE SHAPES (W)	A992[a]	50 ksi / 65 ksi
WIDE FLANGE SHAPES (M, S)	A36	36 ksi / 58 ksi
STEEL PILES (HP)	A572, Gr.50	50 ksi / 65 ksi
CHANNEL SHAPES (C, MC)	A36	36 ksi / 58 ksi
ANGLES, DOUBLE ANGLES (L, 2L)	A36	36 ksi / 58 ksi
PIPE	A53, Gr.B	35 ksi / 60 ksi
RECTANGULAR HSS	A500, Gr.B	46 ksi / 58 ksi
ROUND HSS	A500, Gr.B	42 ksi / 58 ksi
PLATES[b,c]	A36	36 ksi / 58 ksi
	A572, Gr.50	50 ksi / 65 ksi
BOLTS	ASTM A325, TYPE 1	/ 120 ksi
	ASTM A490	/ 150 ksi
NUTS	ASTM A563	/
WASHERS[d]	ASTM F436	/
	ASTM F959	/
HEADED STUD ANCHORS (HSA)	ASTM A108	/ 65 ksi
ANCHOR BOLTS[e]	ASTM F1554, Gr.36	36 ksi / 58 ksi
	ASTM F1554, Gr.55	55 ksi / 75 ksi
THREADED ROD	ASTM A36	36 ksi / 58 ksi
CLEVISES[f]	ASTM A668. Class C	33 ksi / 66 ksi
CLEVIS PINS	ASTM A108	/ 65 ksi
TURNBUCKLES[f]	ASTM A668. Class C	33 ksi / 66 ksi

a. ASTM A572-50 IS ACCEPTABLE AS A SUBSTITUTE FOR A992.
b. ALL BASE PLATES SHALL CONFORM TO ASTM A36, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE STRUCTURAL PLANS AND/OR STRUCTURAL SECTIONS/DETAILS.
c. ALL CONNECTION MATERIAL, EXCEPT AS NOTED OTHERWISE HEREIN OR ON THE DRAWINGS, INCLUDING BEARING PLATES, GUSSET PLATES, STIFFENER PLATES, FILLER PLATES, ANGLES, ETC., SHALL CONFORM TO ASTM A36 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZE ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
d. TYPICAL WASHERS SHALL CONFORM TO ASTM F436. WHERE DIRECT TENSION-INDICATOR WASHERS ARE REQUIRED THEY SHALL CONFORM TO ASTM F959.
e. SEE DETAIL 2/S-510 FOR SPECIFIC REQUIREMENTS FOR ANCHOR ROD MATERIALS.
f. AISI C-1035 IS ACCEPTABLE AS A SUBSTITUTE FOR ASTM A668.

ANY STEEL NOT INDICATED OTHERWISE SHALL CONFORM TO ASTM A992 OR ASTM A572-50, EXCEPT PLATES AND ANGLES WHICH SHALL CONFORM TO ASTM A36.

3. CLEARLY MARK THE GRADE OF STEEL ON EACH PIECE, WITH A DISTINGUISHING MARK VISIBLE FROM FLOOR SURFACES, FOR THE PURPOSE OF FIELD INSPECTION OF PROPER GRADE OF STEEL.

C. CONNECTIONS
1. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL BE DONE IN ACCORDANCE WITH AISC 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," AND AISC 303, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. ALL CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS. CONNECTIONS SHALL BE DESIGNED AND DETAILED TO FOLLOW THE RECOMMENDATIONS SET FORTH IN "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" BY RCSC (AUGUST 1, 2014).
3. THE DESIGN OF ALL STEEL MEMBER END CONNECTIONS SHALL BE A DELEGATED DESIGN ITEM AND SHALL BE PROVIDED BY A SPECIALTY ENGINEER ENGAGED BY EITHER THE GENERAL CONTRACTOR OR THE GENERAL CONTRACTOR'S CHOSEN STEEL FABRICATOR/DETAILER.
a. THE STEEL CONNECTION DETAILS SHOWN ON THE DRAWINGS ARE CONCEPTUAL ONLY AND ARE NOT INTENDED TO SPECIFICALLY INDICATE THE REQUIRED QUANTITY, SPACING OR SIZE OF BOLTS OR WELDS, UNLESS SPECIFICALLY NOTED.
b. CONNECTION DETAILS SHOWN IN THIS SET OF DRAWINGS ARE INCOMPLETE WITH REGARD TO THE FOLLOWING INFORMATION:
- SIZE, THICKNESS AND GRADE OF PLATES
- SIZE AND LENGTH OF ANGLES AND DOUBLE ANGLES
- QUANTITY, SIZE, SPACING AND MATERIAL TYPE FOR BOLTS
- SIZE OF BOLT HOLES (STANDARD, OVERSIZE, SHORT SLOTTED, LONG SLOTTED)
- ORIENTATION OF BOLT HOLES
- SIZE, LENGTH AND TYPE OF WELDS

c. STEEL MEMBER END CONNECTIONS SHALL BE DESIGNED BY THE SPECIALTY ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DESIGN AND DETAILING OF THE CONNECTIONS SHALL BE BASED UPON RATIONAL ENGINEERING ANALYSIS/DESIGN AND STANDARD PRACTICE, AND SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
d. CONNECTION DESIGN REACTIONS NOTED ON THESE DRAWINGS ARE BASED ON FACTORED (ULTIMATE) LOADS AND ARE INTENDED FOR USE WITH THE AISC LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD.
4. ALL SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER THE REQUIREMENTS OF THE AISC 360, §J1.2.
5. SEE PREVIOUS SECTION FOR REQUIRED MATERIAL FOR STRUCTURAL BOLTS.
6. ALL FIELD BOLTS SHALL BE 3/4" DIAMETER ASTM A325 BEARING TYPE BOLTS WITH THREADS INCLUDED IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE.
7. BOLTED CONNECTIONS SHALL BE DESIGNED AS BEARING CONNECTIONS WHERE POSSIBLE.
8. WHERE SLIP-CRITICAL BOLTS ARE REQUIRED, THEIR LOCATION, REQUIRED BOLT HOLE SIZE AND REQUIRED BOLT HOLE TYPE MUST BE CLEARLY INDICATED ON THE STEEL SHOP DRAWINGS. ADDITIONALLY, SHOP DRAWINGS SHALL CLEARLY INDICATE PREPARATION OF THE STEEL SURFACE AT SLIP-CRITICAL BOLT HOLES REQUIRED TO ACHIEVE THE DESIRED SLIP RESISTANCE/FAYING SURFACE.
9. WHERE A490 MATERIAL IS REQUIRED FOR STRUCTURAL BOLTS (TYPICALLY PER THE DIRECTION OF THE SPECIALTY ENGINEER PROVIDING THE STEEL MEMBER END CONNECTION DESIGN, UNLESS SPECIFICALLY CALLED OUT IN THE STRUCTURAL DRAWINGS), THE MINIMUM BOLT SIZE SHALL BE 1" DIAMETER TO ENSURE THAT A490 BOLTS CAN BE EASILY DISTINGUISHED FROM A325 BOLTS.
10. WHERE BOLTS, NUTS AND WASHERS ARE REQUIRED FOR CONNECTION OF GALVANIZED STEEL MEMBERS THEY SHALL ALSO BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
11. MINIMUM NUMBER OF BOLT ROWS BASED ON MEMBER DEPTH FOR WIDE FLANGE (W) AND CHANNEL (C, MC) SHAPES ARE AS FOLLOWS:

W8, W10, W12 / C8, C10, C10, C12 / MC8, MC9, MC10, MC12	2 ROWS
W14, W16 / C15 / MC13, MC15	3 ROWS
W18, W21	4 ROWS
W24, W27	5 ROWS
W30, W33	6 ROWS
W36, W40	7 ROWS

12. THE GENERAL CONTRACTOR SHALL SUBMIT TO THE DESIGN TEAM, FOR REVIEW AND APPROVAL, ENGINEERED SHOP DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL. SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC MANUAL, "DETAILING FOR STEEL CONSTRUCTION". FABRICATION SHALL NOT BEGIN UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED, REVIEWED BY THE DESIGN TEAM, AND RETURNED TO THE CONTRACTOR WITH SHOP DRAWING STAMPS INDICATING APPROVAL. IF FABRICATION COMMENCES WITHOUT APPROVED SHOP DRAWINGS, IT SHALL BE AT THE CONTRACTOR'S RISK.

D. WELDING
1. UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX (SMAW), F7XX - EXXX (SAW), ER70S-X (GMAW), OR E7XT-X (FCAW).
2. ALL FIELD WELDING SHALL BE DONE WITH E-70XX ELECTRODES (SMAW).
3. ALL WELDED JOINTS SHALL COMPLY W/ THE PROVISIONS OF AWS D1.1 STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY (SECTION 2207).
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS D1.1. THE GENERAL CONTRACTOR SHALL MAKE PROOF OF WELDER CERTIFICATION AVAILABLE AT THE JOB SITE.

E. PAINT

1. ALL STRUCTURAL STEEL NOT PERMANENTLY EXPOSED TO WEATHER SHALL RECEIVE A 1-COAT, NON-ASPHALITIC PRIMER COMPLYING WITH SSPC-PS GUIDE 7.00, "GUIDE FOR SELECTING ONE-COAT SHOP PAINTING SYSTEMS". THE PRIMER SHOULD HAVE A MINIMUM DRY FILM THICKNESS NOT LESS THAN 1.5 MILS AND SHOULD BE APPLIED TO ALL STEEL SURFACES WITH THE FOLLOWING EXCEPTIONS:
a. SURFACES TO RECEIVE FIELD WELDS
b. SURFACES TO BE ENCASED IN CONCRETE
c. SURFACES TO BE USED AS A FAYING SURFACE FOR SLIP-CRITICAL BOLTED
d. SURFACES TO BE GALVANIZED
e. SURFACES TO RECEIVE SPRAY-APPLIED FIREPROOFING
TOUCH UP ALL STRUCTURAL STEEL AFTER ERECTION WITH SAME PRIMER.
2. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE EITHER (a) GALVANIZED OR (b) SHOP PRIMED AND PAINTED PER PROJECT SPECIFICATIONS.
a. GALVANIZED STEEL
- ZINC COATING SHALL BE APPLIED BY THE HOT-DIP PROCESS ACCORDING TO ASTM A123
- PROVIDE VENT HOLES, AS REQUIRED. AFTER GALVANIZATION IS COMPLETE, FILL VENT HOLES AND GRIND SMOOTH.
- REPAIR DAMAGED GALVANIZED COATINGS WITH GALANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS/RECOMMENDATIONS.

b. PRIMED AND PAINTED STEEL
- SURFACES TO RECEIVE WELD SHOULD BE FREE OF GALVANIZATION AND PRIMER/PAINT.
- SURFACES TO BE ENCASED IN CONCRETE NEED NOT BE GALVANIZED OR PAINTED
- SURFACES TO BE USED AS A FAYING SURFACE FOR SLIP-CRITICAL BOLTED CONNECTIONS MUST BE COORDINATED WITH THE SELECTED PAINT TO ENSURE THAT CLASS A OR CLASS B FAYING SURFACE REQUIREMENTS ARE MET.

3. ALL STEEL EXPOSED TO EARTH SHALL BE PAINTED WITH BITUMINOUS COATING.

F. ANCHOR RODS
1. SEE DETAIL 2/S-510 FOR SPECIFIC REQUIREMENTS FOR ANCHOR ROD MATERIALS.
2. SEE ANCHOR BOLT SCHEDULE FOR ANCHOR BOLT DIAMETERS, QUANTITY AND TYPE OF NUTS, REQUIRED EMBEDMENT LENGTH, MINIMUM REQUIRED PROJECTION ABOVE TOP OF CONCRETE, ETC.
3. DAMAGE THREADS AT TWO (2) PLACES BELOW THE NUT TO PREVENT LOOSENING, TYP.
4. ANCHOR RODS SHALL BE SET IN THE FIELD USING A STEEL TEMPLATE TO ENSURE THAT EACH BOLT IS PROPERLY LOCATED AND DOES NOT MOVE LATERALLY WHEN CONCRETE IS CAST. TEMPLATE SHALL BE A MINIMUM OF 0.125" THICK.
5. ANCHOR RODS THAT ARE OMITTED WILL NOT NECESSARILY BE REPLACEABLE VIA POST-INSTALLED METHODS. DEMOLITION OF THE CONCRETE FOUNDATION MAY BE REQUIRED.
6. ANCHOR RODS THAT ARE INSTALLED WITH INADEQUATE EMBEDMENT INTO THE CONCRETE WILL NOT NECESSARILY BE ACCEPTABLE. FURTHER, DEMOLITION OF THE CONCRETE FOUNDATION INTO WHICH THE ANCHOR BOLT IS CAST MAY BE REQUIRED.

G. GROUT
1. GROUT BENEATH STRUCTURAL STEEL BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK GROUT. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:

BASE (BEARING) MATERIAL	GROUT STRENGTH
3,000 PSI CONCRETE	6,000 PSI
4,000 PSI CONCRETE	8,000 PSI
5,000 PSI CONCRETE	8,000 PSI

H. MISCELLANEOUS
1. ALL BEAMS AND GIRDERS SHALL BE FABRICATED WITH NATURAL CAMBER UP.
2. WHERE STEEL BEAM LOCATIONS HAVE NOT BEEN SPECIFICALLY NOTED ON THE STRUCTURAL PLANS, THEY SHALL BE EQUALLY SPACED IN A GIVEN BAY.
3. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL SUCH TIME THAT ALL PERMANENT BRACING AND MOMENT CONNECTIONS HAVE BEEN COMPLETED AND INSPECTED/APPROVED BY THE 3RD PARTY INSPECTION AGENCY. THIS INCLUDES SHORING, RE-SHORING, GUY WIRES, TEMPORARY BRACING, ETC.
a. ERECTION TOLERANCES OF ALL STRUCTURAL STEEL SHALL BE MAINTAINED DURING CONSTRUCTION, AS RECOMMENDED IN AISC 303, "CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES".
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS.
6. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBER FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
7. ALL ADDITIONAL STEEL REQUIRED BY THE CONTRACTOR FOR ERECTION PURPOSES AND SITE ACCESS OF STOCKPILED MATERIALS SHALL BE PROVIDED AT NO COST TO THE OWNER. ALL SUCH ADDITIONAL STEEL SHALL BE REMOVED BY THE CONTRACTOR.
8. GENERAL CONTRACTOR TO NOTIFY DESIGN TEAM OF ANY STRUCTURAL STEEL THAT IS SHOWN IN THE ARCHITECTURAL DRAWINGS THAT IS NOT OTHERWISE SHOWN IN THE STRUCTURAL DRAWINGS.
9. STEEL COLUMNS, STEEL BEAMS AND STEEL GIRDERS ARE TO BE CONTINUOUS WITH NO SPLICES, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS.
10. THE ENDS OF COLUMNS AND OTHER MEMBERS TRANSMITTING AXIAL LOADS SHALL BE FINISHED ACCURATELY.

10. STEEL JOISTS AND JOIST GIRDERS

A. QUALIFICATIONS
1. STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED, FABRICATED AND ERECTED PER THE RECOMMENDATIONS OUTLINED IN THE STEEL JOIST INSTITUTE (SJI) SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
2. THE MANUFACTURER OF STEEL JOISTS AND JOIST GIRDERS SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI).
3. STEEL ERECTOR(S) FOR THIS PROJECT SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND HAVE A MINIMUM DESIGNATION OF "CSE".
4. ALL PERSONNEL PERFORMING WELDING ON STRUCTURAL COMPONENTS OF THIS PROJECT SHALL BE AWS CERTIFIED.

B. MATERIAL
1. TOP AND BOTTOM CHORDS SHALL BE FABRICATED FROM MATERIAL THAT MEETS THE REQUIREMENTS OF ONE OF THE FOLLOWING:
a. ASTM A36
b. ASTM A242, Gr.50
c. ASTM A529, Gr.50
d. ASTM A572, Gr.50
e. ASTM A588, Gr.50
2. WEB MEMBERS SHALL BE FABRICATED FROM MATERIAL THAT MEETS THE REQUIREMENTS OF ONE OF THE FOLLOWING:
a. ASTM A36
b. ASTM A242, Gr.50
c. ASTM A529, Gr.50
d. ASTM A572, Gr.50
e. ASTM A588, Gr.50

C. WELDING
1. FOR WELDS BETWEEN JOIST/JOIST GIRDER ELEMENTS THAT BOTH HAVE A SPECIFIED MINIMUM YIELD STRENGTH GREATER THAN 36 KSI, WELDING ELECTRODES SHALL BE AS FOLLOWS:
a. E70XX (SMAW)
b. E70XX-X (SMAW)
c. F7XX-EXXX OR F7XX-ECXXX (SAW)
d. ER70S-X, E70C-XC OR E70C-XM (GMAW)
e. E7XT-X OR E7XT-XM (FCAW)
f. F7XX-EXXX-XX OR F7XX-ECXXX-XX (SAW)
g. ER70S-XXX OR 730C-XXX (GMAW)
h. E7XTX-X OR E7XTX-XM (FCAW)
2. FOR WELDS BETWEEN JOIST/JOIST GIRDER ELEMENTS WHERE ONE OR MORE ELEMENTS HAS A SPECIFIED MINIMUM YIELD STRENGTH OF 36 KSI, WELDING ELECTRODES SHALL BE AS FOLLOWS:
a. E60XX (SMAW)
b. F6XX-EXXX OR F6XX-ECXXX (SAW)
c. E6XT-X OR E6XT-XM (FCAW)
d. E6XTX-X OR E6XTX-XM (FCAW)
e. ANY OF THOSE METHODS LISTED ABOVE FOR ELEMENTS WITH YIELD STRENGTHS EXCEEDING 36 KSI.

D. PAINT
1. ALL STEEL JOISTS AND JOIST GIRDERS SHALL RECEIVE A 1-COAT, NON-ASPHALITIC PRIMER COMPLYING WITH SSPC PAINT SPECIFICATION 15. THE PRIMER SHOULD HAVE A MINIMUM DRY FILM THICKNESS NOT LESS THAN 1.0 MILS AND SHOULD BE APPLIED TO ALL STEEL SURFACES WITH THE FOLLOWING EXCEPTIONS:
a. SURFACES TO RECEIVE FIELD WELDS
b. SURFACES TO BE ENCASED IN CONCRETE
c. SURFACES TO BE USED AS A FAYING SURFACE FOR SLIP-CRITICAL BOLTED
d. SURFACES TO BE GALVANIZED
e. SURFACES TO RECEIVE SPRAY-APPLIED FIREPROOFING
TOUCH UP ALL STRUCTURAL STEEL AFTER ERECTION WITH SAME PRIMER.

E. CONNECTIONS
1. STEEL JOIST CONNECTIONS SHALL BE MADE BY ATTACHING THE JOIST SEAT TO THE SUPPORTING ELEMENT VIA WELDING. UNLESS SPECIFICALLY DETAILED OTHERWISE, STEEL JOISTS SHALL BE ATTACHED TO SUPPORTING MEMBER AS FOLLOWS:

JOIST TYPE	REQ'D WELD	MINIMUM BEARING SEAT BOLTS FOR ERECTION
K SERIES	(2) ⅛" x 0'-2½"	(2) - ½"Ø A307
KCS SERIES	(2) ⅛" x 0'-2½"	(2) - ½"Ø A307
LH SERIES	(2) ¼" x 0'-2½"	(2) - ¾"Ø A307
DLH SERIES	(2) ¼" x 0'-4"	(2) - ¾"Ø A307

2. WHERE STEEL JOISTS BEAR ON MASONRY OR CONCRETE WALLS, A STEEL BEARING PLATE SHALL BE PROVIDED TO WHICH THE JOIST SEAT SHALL BE WELDED. THE BEARING PLATE SHALL BE AS FOLLOWS:

JOIST TYPE	MINIMUM BEARING PLATE LENGTH	MINIMUM BEARING PLATE WIDTH	ANCHORS
K SERIES	0'-7"	0'-6"	(2) ½"Ø x 0'-5" HSA(**)
KCS SERIES	0'-7"	0'-6"	(2) ½"Ø x 0'-5" HSA(**)
LH SERIES	0'-9"	0'-7"	(2) ½"Ø x 0'-5" HSA(**)
DLH SERIES	1'-2"	0'-7"	(2) ½"Ø x 0'-5" HSA(**)

(**) IF POST-INSTALLED ANCHORS ARE PREFERRED TO HEADED STUDS, THE GENERAL CONTRACTOR MAY USE SCREW ANCHORS IN LIEU OF HEADED STUDS. SCREW ANCHORS SHALL BE ½"Ø x 0'-5" MINIMUM EMBEDMENT AND SHALL BE LOCATED NO CLOSER THAN 0'-3¾" FROM THE FACE OF THE SUPPORTING CONCRETE/CMU WALL.

3. STEEL JOISTS SHALL BE DETAILED SUCH THAT THE FOLLOWING SEAT DEPTHS AND MINIMUM BEARING LENGTHS ARE PROVIDED:

JOIST TYPE	STANDARD SEAT DEPTH(**)	REQ'D BEARING LENGTH (MASONRY, CONCRETE)	REQ'D BEARING LENGTH (STEEL)(††)
K SERIES	0'-2½"	0'-4"	0'-2½"
KCS SERIES	0'-2½"	0'-4"	0'-2½"
LH SERIES	0'-5"	0'-6"	0'-4"
DLH SERIES	0'-7½"	0'-6"	0'-6"

(**) WHERE STEEL JOISTS ARE SLOPED AT ⅜":12" OR LESS, THE SEAT DEPTH SHOWN HERE STILL APPLIES. WHERE THE JOIST SLOPE EXCEEDS ⅜":12", SEAT DEPTH WILL BE GREATER THAN THAT SHOWN HERE AND SHALL VARY BASED ON THE REQUIRED JOIST SLOPE.

(††) WHERE STEEL JOISTS ARE SUPPORTED BY A STEEL BEAM OR GIRDER FROM ONE SIDE ONLY, JOIST SEAT SHALL EXTEND A MINIMUM OF 1" BEYOND THE CENTERLINE OF THE STEEL BEAM OR GIRDER.

4. WELDED JOIST SEAT CONNECTIONS SHALL BE VISUALLY INSPECTED AS REQUIRED PER THE SPECIAL INSPECTION SCHEDULE.
5. ALL JOISTS SEATS SHALL BE DESIGNED TO RESIST A ROLL-OVER FORCE OF 2.3 KIPS.
6. SPLICES OF STEEL JOISTS ARE NOT PERMITTED.
7. STEEL JOIST MANUFACTURER TO DETERMINE APPROPRIATE JOIST CAMBER.
a. ALL JOISTS ADJACENT TO AND RUNNING PARALLEL WITH STEEL BEAMS SHALL BE SUPPLIED WITH 50% OF STANDARD CAMBER.

F. BRIDGING
1. BRIDGING IS NOT REQUIRED FOR STEEL JOIST GIRDERS, PROVIDED THAT THE FOLLOWING CONDITIONS ARE MET:
a. THE ENDS OF THE BOTTOM CHORD SHALL BE RESTRAINED FROM LATERAL MOVEMENT TO BRACE THE GIRDER FROM OVERTURNING. FOR JOIST GIRDERS AT COLUMNS IN STEEL FRAMES, RESTRAINT SHALL BE PROVIDED BY A STABILIZER PLATE ON THE COLUMN.
b. NO OTHER LOADS SHALL BE PLACED ON THE JOIST GIRDER UNTIL THE STEEL JOISTS BEARING ON THE JOIST GIRDER ARE IN PLACE AND POSITIVELY ATTACHED TO THE JOIST GIRDER.
2. STEEL JOIST TOP AND BOTTOM CHORD BRIDGING SHALL BE REQUIRED AND SHALL CONSIST OF ONE OR BOTH OF EITHER HORIZONTAL BRIDGING OR DIAGONAL BRIDGING.
a. HORIZONTAL BRIDGING LINES SHALL CONSIST OF CONTINUOUS HORIZONTAL STEEL MEMBERS. THE SLENDERNESS RATIO (l/r) OF THE BRIDGING MEMBER SHALL NOT EXCEED 300, WHERE "l" IS THE DISTANCE BETWEEN ATTACHMENTS AND "r" IS THE LEAST RADIUS OF GYRATION OF THE BRIDGING MEMBER.
b. DIAGONAL BRIDGING LINES SHALL CONSIST OF CROSS-BRACING WITH A SLENDERNESS RATIO (l/r) OF NOT MORE THAN 200, WHERE "l" IS THE DISTANCE BETWEEN ATTACHMENTS AND "r" IS THE LEAST RADIUS OF GYRATION OF THE BRIDGING MEMBER. WHERE CROSS-BRACING MEMBERS ARE CONNECTED AT THEIR POINT OF INTERSECTION, THE "l" DISTANCE SHALL BE TAKEN AS THE DISTANCE BETWEEN CONNECTIONS AT THE POINT OF INTERSECTION OF THE CROSS-BRACING MEMBERS AND THEIR CONNECTIONS TO THE JOIST CHORDS.
c. LH AND DLH SERIES JOISTS EXCEEDING 60 FEET IN LENGTH SHALL HAVE BOLTED DIAGONAL BRIDGING FOR ALL ROWS.
3. STEEL JOIST BRIDGING SHALL SUPPORT THE TOP AND BOTTOM CHORDS AGAINST LATERAL MOVEMENT DURING THE CONSTRUCTION PERIOD AND SHALL HOLD THE STEEL JOISTS IN THE APPROXIMATE POSITION AS SHOWN ON THE JOIST PLACEMENT PLANS.
4. BRIDGING SHALL BE CONNECTED TO THE STEEL JOIST CHORDS VIA WELDING OR BOLTING. THE BRIDGING-TO-JOIST-CHORD CONNECTION SHALL BE CAPABLE OF RESISTING THE UNFACTORED (NOMINAL) HORIZONTAL FORCE, P_{br}, BUT NOT LESS THAN 700 LBS.
5. BRIDGING MEMBER SELECTION, MEMBER DESIGN, QUANTITIES, SPACING, CONNECTION DESIGN, ETC. SHALL BE A DELEGATED DESIGN TO BE PROVIDED BY THE STEEL JOIST MANUFACTURER AND TO BE SHOWN ON THE SHOP DRAWINGS.
6. BRIDGING DESIGN SHALL BE SUCH THAT NET UPLIFT OF THE STEEL JOISTS IS CONSIDERED.
7. THE NUMBER OF ROWS OF BOTTOM CHORD HORIZONTAL BRIDGING SHALL BE EQUAL TO OR GREATER THAN THE NUMBER OF ROWS OF TOP CHORD HORIZONTAL BRIDGING.
8. WHERE BOTTOM CHORD BEARING JOISTS ARE SPECIFIED, A ROW OF DIAGONAL BRIDGING SHALL BE PROVIDED NEAR THE STEEL JOIST SUPPORT(S). THIS BRIDGING SHALL BE INSTALLED AND ANCHORED BEFORE THE JOISTING CABLE(S) IS RELEASED.

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
GENERAL NOTES

S-002
Sheet Number

NOT ISSUED FOR CONSTRUCTION

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G. MISCELLANEOUS
1. WHERE STEEL JOIST LOCATIONS HAVE NOT BEEN SPECIFICALLY NOTED ON THE STRUCTURAL PLANS, THEY SHALL BE EQUALLY SPACED IN A GIVEN BAY.
2. WHERE STEEL JOISTS ARE SUBJECTED TO NON-UNIFORM LOADING CONDITIONS (POINT LOADS, TRAPEZOIDAL LOADS, ETC.), SPECIAL JOIST LOADING DIAGRAMS HAVE BEEN PROVIDED. SEE SHEETS S-02# FOR ADDITIONAL INFORMATION.
3. THE GENERAL CONTRACTOR AND STEEL ERECTOR SHALL PROVIDE CONSIDERATION IN THE HANDLING OF STEEL JOISTS AND JOIST GIRDERS TO ENSURE THAT DAMAGE TO THE JOISTS AND JOIST GIRDERS IS AVOIDED. HOISTING CABLES SHALL BE ATTACHED AT PANEL POINT LOCATIONS AND THOSE LOCATIONS AND HOISTING POINTS SHALL BE SELECTED (BY THE JOIST DESIGNER) TO MINIMIZE ERECTION STRESSES.
4. EACH STEEL JOIST SHALL BE ADEQUATELY BRACED LATERALLY BEFORE ANY LOADS ARE APPLIED. IF LATERAL SUPPORT IS PROVIDED BY BRIDGING, THE BRIDING LINES SHALL BE ANCHORED TO PREVENT LATERAL MOVEMENT.
5. STEEL JOISTS AND STEEL JOIST GIRDERS SHALL NOT BE USED AS ANCHORAGE POINTS FOR FALL ARREST SYSTEMS, UNLESS SPECIFICALLY IDENTIFIED BY THE SPECIALTY ENGINEER, AS BEING ACCEPTABLE. THIS INFORMATION SHALL BE INCLUDED IN THE STEEL JOIST SHOP DRAWINGS.
6. STEEL JOIST CHORDS HAVE NOT BEEN DESIGNED TO SUPPORT OUT-OF-PLANE (VERTICAL, HORIZONTAL) LOADS OR TORSIONAL LOADS. WHERE A POINT LOAD MUST BE APPLIED TO A JOIST CHORD, ADDITIONAL STRUCTURAL STEEL SHALL BE REQUIRED, AS DETAILED IN THE STRUCTURAL DRAWINGS.
7. WHERE REQUIRED, STEEL JOIST AND STEEL JOIST GIRDER END EXTENSIONS SHALL BE SPECIFIED AND DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE STANDARD SPECIFICATION.
8. CEILING EXTENSIONS SHALL BE FURNISHED TO SUPPORT CEILINGS THAT ARE TO BE ATTACHED DIRECTLY TO THE BOTTOM OF THE STEEL JOIST(S). CEILING EXTENSIONS SHALL BE EITHER AN EXTENDED BOTTOM CHORD ELEMENT OR A LOOSE UNIT, WHICHEVER IS STANDARD WITH THE JOIST MANUFACTURER, AND SHALL BE OF SUFFICIENT LENGTH TO PROPERLY SUPPORT ANY SPECIFIED CEILING LOADS.
9. GENERAL CONTRACTOR TO NOTIFY DESIGN TEAM OF ANY STEEL JOISTS, STEEL JOIST(S) GIRDER(S), OR ASSOCIATED MATERIAL(S) SUCH AS BRIDGING, THAT MAY BE SHOWN IN THE ARCHITECTURAL DRAWINGS THAT IS NOT OTHERWISE SHOWN IN THE STRUCTURAL DRAWINGS.

11. STEEL DECK

A. QUALIFICATIONS
1. STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED PER THE RECOMMENDATIONS OUTLINED IN THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS, THE SDI CODE OF STANDARD PRACTICE (COSP17) AND SDI MANUAL OF CONSTRUCTION WITH STEEL DECK (MOC3).
2. THE MANUFACTURER OF STEEL DECK SHALL BE A MEMBER OR ASSOCIATE MEMBER OF THE STEEL DECK INSTITUTE (SDI).

B. MATERIAL
1. SHEET STEEL FOR METAL FLOOR DECK SHALL CONFORM TO THE FOLLOWING:
   a. ASTM A653, GRADE 50
2. SHEET STEEL FOR METAL ROOF DECK SHALL CONFORM TO THE FOLLOWING:
   b. ASTM A653, GRADE 33
3. SHEET STEEL FOR METAL FLOOR DECK SHALL RECEIVE G60 GALVANIZATION.
4. SHEET STEEL FOR METAL ROOF DECKING SHALL RECEIVE G90 GALVANIZATION.

B. CONNECTIONS
1. STEEL DECK SHALL BE INSTALLED ACCORDING TO THE SDI MANUAL OF CONSTRUCTION.
2. ALL WELDING OF STEEL DECK SHALL BE IN ACCORDANCE WITH AWS D1.3. WHERE WELDS ARE SPECIFIED, USE WELDING WASHERS AS REQUIRED.
3. ATTACHMENT OF METAL FLOOR DECK TO LIGHT-GAGE METAL STUDS, STRUCTURAL STEEL FRAMING AND/OR CONCRETE OR MASONRY WALLS SHALL BE MADE VIA WELDING OR MECHANICAL FASTENERS, AS PRESCRIBED IN THE STRUCTURAL DRAWINGS.
4. ATTACHMENT OF ADJACENT STEEL DECK UNITS SHALL BE MADE VIA WELDING OR MECHANICAL FASTENERS, AS PRESCRIBED IN THE STRUCTURAL DRAWINGS.
5. STEEL DECK SHALL HAVE A MINIMUM 1½" BEARING LENGTH AT DISCONTINUOUS ENDS.
6. STEEL DECK SHALL HAVE A MINIMUM 3" BEARING LENGTH AT INTERMEDIATE SUPPORTS.
7. PROVIDE 3" MINIMUM END LAP OF DECK UNITS, TYP.

C. MISCELLANEOUS
1. WHERE UNSCHEDULED OPENINGS IN THE STEEL DECK ARE REQUIRED (OPENINGS IN THE STEEL DECK THAT ARE NOT SHOWN ON THE APPROVED STEEL DECK SHOP DRAWINGS), THE GENERAL CONTRACTOR SHALL COORDINATE OPENING LOCATION(S) WITH ARCHITECTURAL AND M/E/P DRAWINGS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY REINFORCING THESE OPENINGS DURING CONSTRUCTION. WHERE UNSCHEDULED OPENINGS IN THE STEEL DECK EXCEED 12"x12", GENERAL CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL FROM STRUCTURAL ENGINEER OF RECORD PRIOR TO CUTTING OPENINGS.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT STEEL FLOOR DECK AND STEEL ROOF DECK ARE NOT OVERLOADED DURING CONSTRUCTION. THE MAXIMUM ALLOWABLE LOAD ON THE STEEL DECK SHALL BE AS NOTED IN THE GENERAL NOTES (SECTION 1, PART C - "LIVE LOADS").
3. IF THE GENERAL CONTRACTOR PLANS TO STORE MATERIALS ON THE CONCRETE SLAB ON STEEL DECK OR ON THE STEEL ROOF DECK, THE GENERAL CONTRACTOR SHALL SUBMIT INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO ANY MATERIAL BEING STORED.

D. COMPOSITE METAL FLOOR DECK

LOCATION	DEPTH OF DECK	GAGE	TYPE	FINISH
LEVELS #-#	## INCH	## GAGE	#####	GALV (G60)

E. METAL ROOF DECK

LOCATION	DEPTH OF DECK	GAGE	TYPE	FINISH
LEVELS #-#	## INCH	## GAGE	#####	GALV (G90)

12. STAIRS, HANDRAILS, AND GUARDRAILS

A. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF STEEL STAIRS, STEEL AND/OR ALUMINUM HANDRAILS AND GUARDRAILS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION.

B. SHOP DRAWINGS SHALL INCLUDE DESIGN LOAD CRITERIA, DESIGN LOADS, LOCATIONS OF ANCHORAGE SUPPORT POINTS, FRAMING DETAILS, STRINGERS, STAIR TREADS, POSTS, PICKETS, TOP RAILS, INTERMEDIATE RAILS, HANGERS, POSTS AND CONNECTION DETAILS TO THE SUPPORTING STRUCTURE.

C. COMPLETE STRUCTURAL CALCULATIONS SHALL BE SUBMITTED WITH SHOP DRAWINGS. CALCULATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO CONNECTION DESIGN TO THE SUPPORTING STRUCTURE. CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED.

D. DESIGN LOAD CRITERIA SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE 2018 SOUTH CAROLINA BUILDING CODE, AS WELL AS ANY SPECIFIC REQUIREMENTS IDENTIFIED ON THE ARCHITECTURAL PLANS. IN PARTICULAR, SECTION 1607 REQUIRES THAT STAIRS AND EXITS BE DESIGNED FOR A 100 PSF UNIFORM LIVE LOAD WITH STAIR TREADS ALSO BEING CHECKED FOR A MINIMUM CONCENTRATED LOAD OF 300 LBS OVER AN AREA OF 4 SQ. IN.

E. SECTION 1607.7.1 REQUIRES THAT HANDRAILS AND GUARDRAILS BE DESIGNED TO RESIST 50 PLF APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE. HANDRAILS AND GUARDRAILS SHALL ALSO BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP AND HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURE TO TRANSFER THIS LOAD TO THE APPROPRIATE STRUCTURAL ELEMENTS OF THE BUILDING. INTERMEDIATE RAILS, BALUSTERS, PICKETS, AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A NORMAL LOAD OF 50 LBS ON AN AREA NOT TO EXCEED 1 SQ. FT. INCLUDING OPENINGS AND SPACE BETWEEN THE RAILS.

F. COMPLY WITH NAAMM, NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS, "METAL STAIR MANUAL".

G. MINIMUM SIZES SHALL BE AS FOLLOWS:
METAL PANS:..... 14 GA. (UNLESS NOTED OTHERWISE)
STRINGERS:..... MC12x10.6 (UNLESS NOTED OTHERWISE)

H. SEE ARCHITECTURAL DRAWINGS FOR EXACT LAYOUT AND DIMENSIONS.

13. COLD FORMED LIGHT GAUGE METAL WALL STUD FRAMING

A. UNLESS SPECIFICALLY SIZED ON THE DRAWINGS, ALL MEMBERS AND ASSOCIATED CONNECTIONS SHALL BE DESIGNED AND FABRICATED BY THE SUPPLIER IN ACCORDANCE WITH THE AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL STEEL MEMBERS (LATEST EDITION.)

B. THE LIGHT GAUGE SUPPLIER SHALL SUBMIT COMPLETE CALCULATIONS FOR DESIGN OF ALL MEMBERS AND CONNECTIONS (INCLUDING CONNECTIONS TO THE SUPPORTING STRUCTURE) TO THE ARCHITECT FOR THE ARCHITECTS RECORD. CALCULATIONS SHALL BE PREPARED AND SEALED & SIGNED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE WHERE THE PROJECT IS BEING CONSTRUCTED, AND SHALL BE DONE IN ACCORDANCE WITH THE BUILDING CODE AND THE AISI SPECIFICATION (LATEST EDITION). DESIGN CALCULATIONS SHALL BE SUBMITTED WITH SHOP DWGS.

C. SHOP DWGS SHALL BE SUBMITTED FOR THE ARCHITECTS REVIEW PRIOR TO FABRICATION. SHOP DWGS SHALL INDICATE ALL MEMBER PROPERTIES, SIZES, DETAILS OF MEMBER CONNECTIONS AND DETAILS OF CONNECTIONS TO THE SUPPORTING STRUCTURE. SHOP DWGS SHALL INCLUDE ERECTION DWGS AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE WHERE THE PROJECT IS BEING CONSTRUCTED. ALL LIGHT GAUGE METAL SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE.

D. SEE ARCH DWGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

E. WHERE STUDS ARE NOT BRACED LATERALLY BY GYPSUM BOARD OR PLYWOOD ON EACH SIDE, PROVIDE CONTINUOUS 1 1/2" COLD ROLLED CHANNEL BRIDGING @ 48" O.C. MAX.

F. WHERE COLD FORMED METAL FRAMING IS FIELD WELDED, ALL WELDS AND SURROUNDING AREAS SHALL BE FIELD PAINTED W/ A ZINC RICH PAINT.

G. PROVIDE BUILT UP SECTIONS WHERE REQUIRED AT OPENING JAMBS, HEADS & SILLS.

H. PROVIDE SPACER, STUDS & FILLER STUDS WHERE REQUIRED TO ACHIEVE CONNECTIONS AT CORNICE FRAMING.

I. FOR COMPONENT & CLADDING WIND PRESSURES, SEE DESIGN CRITERIA IN THESE GENERAL NOTES.

J. STUD TO STUD CONNECTIONS AND STUD TO SUPPORTING STRUCTURE CONNECTIONS ARE SHOWN ON SECTIONS AND DETAILS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL CONNECTIONS SHALL BE DESIGNED BY THE STUD SUPPLIER PER NOTE "B" ABOVE.

K. MASONRY VENEER ANCHOR TIES SHALL BE ATTACHED TO CORROSION RESISTANT STRUCTURAL BACKING WITH A MINIMUM BASE METAL THICKNESS OF .043 IN. (18 GAUGE MINIMUM) PER ACI 530-13, SECTION 6.2.2.7.3. COLD-FORMED LIGHT GAGE STEEL DESIGN SHALL CONSIDER THE LOCATIONS WHERE MASONRY VENEER IS CALLED FOR ON THE ARCHITECTURAL PLANS.

L. LATERAL DEFLECTION LIMITS FOR LIGHT GAUGE FRAMING SHALL CONFORM TO SPAN/240 FOR BRITTLE FINISHES (MASONRY VENEER) AND SPAN/120 FOR FLEXIBLE FINISHES.

14. PLYWOOD SHEATHING AT PARAPETS WITH METAL STUD BRACING

A. ALL PLYWOOD SHEATHING TO BE FASTENED TO COLD-FORMED METAL STUD FRAMING AND SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE MINIMUM 15/32 THICK EXPOSURE 1 RATED PLYWOOD SHEATHING OF 24/16 (US) AND BEAR THE TRADEMARK, STAMP OF THE AMERICAN PLYWOOD ASSOCIATION (APA).

B. ALL PLYWOOD SHEATHING TO BE FASTENED TO COLD-FORMED METAL STUD FRAMING SHALL BE ATTACHED W/ITW BUILDEX FASTENERS W/SHANK DIAMETER OF 0.12" SPACED AT 6" O.C. AT ALL SUPPORTED EDGES.

C. ITW BUILDEX FASTENERS SHALL COMPLY WITH THE CRITERIA SET FORTH IN ICC EVALUATION REPORT ER-5380, REVISED JULY 1, 2005.

D. WHERE REQUIRED, ALL PLYWOOD SHEATHING SHALL BE FIRE RETARDANT TREATED. SEE ARCHITECTURAL WALL ASSEMBLIES FOR ADDITIONAL INFORMATION.

15. EXTERIOR GLAZING SYSTEMS (STORE FRONT AND SKYLIGHTS)

A. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EXTERIOR GLAZING SHALL SEALED & SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND SHALL BE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION.

B. SHOP DRAWINGS SHALL INCLUDE DESIGN LOAD CRITERIA, DESIGN LOADS, AND LOCATIONS OF EACH EXTERIOR GLAZING ANCHOR SUPPORT POINT, EXTERIOR GLAZING FRAME MEMBER SIZES AND CONNECTION DETAILS TO THE SUPPORTING STRUCTURE.

C. COMPLETE STRUCTURAL CALCULATIONS SHALL BE SUBMITTED WITH SHOP DRAWINGS. CALCULATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO CONNECTION DESIGN TO THE SUPPORTING STRUCTURE. CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA.

D. GLAZING MANUFACTURER TO PROVIDE DETAILS THAT CLEARLY INDICATE REQUIRED ATTACHMENT TO STRUCTURE ON ALL SIDES OF EXTERIOR GLAZING SYSTEM TO ADEQUATELY RESIST THE APPLICABLE WIND DESIGN PRESSURES.

E. GLAZING MANUFACTURER TO PROVIDE MULL CLIPS ALONG ALL INTERIOR STOREFRONT GLASS PANEL BUTT JOINTS AT A MAXIMUM SPACING OF 36 INCHES ON CENTER TO ENSURE COMPLIANCE WITH THE DIFFERENTIAL DEFLECTION LIMIT OF SECTION 2403.4 OF THE BUILDING CODE.

F. GLAZING MANUFACTURER TO SUBMIT THE MANUFACTURER'S DATA SHEET FOR EACH TYPE OF MULL CLIP PROPOSED FOR SUPPORT ALONG EDGES OF INTERIOR STOREFRONT GLASS PANELS.

16. MISCELLANEOUS

A. CONTRACT DOCUMENTS:
1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

B. DRAWING CONFLICTS:
1. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS

C. EXISTING CONDITIONS:
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS.

D. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION:
1. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.

E. CONFLICTS IN STRUCTURAL REQUIREMENTS:
1. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.

F. STABILITY AND BRACING OF MASONRY WALLS DURING CONSTRUCTION:
1. ALL MASONRY WALLS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THE FINAL CONSTRUCTED CONFIGURATION ONLY ASSUMING FULL BRACING TOP, BOTTOM, AND/OR SIDE OF WALL AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY AND ADEQUATELY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF CONSTRUCTION.

G. CONTRACTOR SUBSTITUTIONS:
1. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
   a. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
   b. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

H. SITE OBSERVATION BY THE STRUCTURAL ENGINEER:
1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.
2. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
3. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF ELLINWOOD + MACHADO, LLC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
5. IT IS RECOMMENDED THAT THE CONTRACTOR MAINTAIN A DOCUMENTED REFERENCE FOR REMEDIATION, INCLUDING PICTURES, AS NECESSARY, NOTED AS THEY ARE ADDRESSED, FOR EACH DISCREPANCY IDENTIFIED IN FIELD REPORTS ISSUED BY E+M. PLEASE NOTE IN INSTANCES WHERE A FINAL SIGN-OFF LETTER WILL BE REQUIRED FROM THE STRUCTURAL ENGINEER OF RECORD, E+M WILL REQUIRE THAT WRITTEN DOCUMENTATION OF EACH ITEM REQUIRING REMEDIATION BE SUBMITTED TO E+M FOR REVIEW PRIOR TO ANY SUCH LETTER BEING ISSUED.

I. MAINTENANCE STATEMENT:
1. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFE SPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT.
2. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS SUCH AS BUT NOT LIMITED TO PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

17. DRAWING INTERPRETATION

A. TYPICAL DETAILS
1. DETAILS LABELED AS TYPICAL DETAILS ON THESE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF THE DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED AT EACH LOCATION. DECISIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.

18. STRUCTURAL ABBREVIATIONS

ADD'L, ADD.	ADDITIONAL	LLV.	LONG LEG VERTICAL
AB, ABOLT	ANCHOR BOLT	LOC.N.	LOCATION
ARCH.	ARCHITECTURAL	M.	MOMENT
@	AT	MFG, MFGR.	MANUFACTURER
BM.	BEAM	MECH.	MECHANICAL
BRG.	BEARING	MPH.	MILES PER HOUR
BLK.	BLOCK	MAT'L	MATERIAL
BOT, B.	BOTTOM, BOTTOM BAR	MAX.	MAXIMUM
BLDG.	BUILDING	MFR.	MANUFACTURER
CL.	CENTER LINE	MTL.	METAL
CLR.	CLEAR	MIN.	MINIMUM
COL.	COLUMN	MISC.	MISCELLANEOUS
CONC.	CONCRETE	NIC.	NOT IN CONTRACT
CONN.	CONNECTION	NO.	NUMBER
CMU.	CONCRETE MASONRY UNIT	NTS.	NOT TO SCALE
CONST.	CONSTRUCTION	O.C.	ON CENTER
CONT.	CONTINUOUS	OPNG.	OPENING
CONTR.	CONTRACTOR	O.H.	OPPOSITE HAND
D.	DEEP	P.	PAN
DSN.	DESIGN	PAF	POWDER ACTUATED FASTENER
FTG.	FOOTING	P/C.	PRECAST
DET, DTL.	DETAIL	PL.	PLATE
DIA, Ø	DIAMETER	PT.	POST TENSIONED
DIAG.	DIAGRAM	PTS.	POINTS
DIM.	DIMENSION	PHSE.	PENTHOUSE
DWG.	DRAWING	PSF.	POUNDS PER SQ. FOOT
DWL.	DOWEL	PSI.	POUNDS PER SQ. INCH
EE.	EACH END	REF.	REFERENCE
EF.	EACH FACE	REV.	REVISION
EW.	EACH WAY	REINF.	REINFORCING
ELEV, EL.	ELEVATION	REQ'D.	REQUIRED
ETF.	ELEVATION TOP OF FOOTING	REBAR.	REINFORCING BAR
ETC.	ETCETERA	SCHD, SCHED.	SCHEDULE
EQ.	EQUAL	SECT.	SECTION
EXIST, EXT'G.	EXISTING	SLH.	SHORT LEG HORIZONTAL
EXP.	EXPANSION	SLV.	SHORT LEG VERTICAL
EXP JT, EJ.	EXPANSION JOINT	SLO.	SHORT LEG OUT
EXT.	EXTERIOR	SIM.	SIMILAR
F/	FACE OF	SOG.	SLAB ON GRADE
FIN FL, FFE.	FINISHED FLOOR	SPECS.	SPECIFICATIONS
FFE.	FINISHED FLOOR ELEVATION	SQ.	SQUARE
FL, FLR.	FLOOR	STD.	STANDARD
FRT.	FIRE RETARDANT TREATED WOOD	STIRR.	STIRRUPS
FTG.	FOOTING	STL,ST'L	STEEL
FT.	FEET, FOOT	STRUCT.	STRUCTURAL
FLG.	FLANGE	T.	TOP
GA, ga.	GAUGE	THK.	THICK
GALV.	GALVANIZED	THRD.	THREADED
H.	HEAD	THRU.	THROUGH
HK.	HOOK	T/S, T/STL.	TOP OF STEEL
HR.	HOUR	T/B, T/BM.	TOP OF BEAM
HORIZ.	HORIZONTAL	T/CONC.	TOP OF CONCRETE
INFO.	INFORMATION	T/SLAB.	TOP OF SLAB
INT.	INTERIOR	T/FTG.	TOP OF FOOTING
JST.	JOIST	TYP.	TYPICAL
JT.	JOINT	UNO.	UNLESS NOTED OTHERWISE
K-FT.	KIP-FEET	VERT.	VERTICAL
K/FT.	KIPS PER FOOT	W.	WIDE
K.	KIPS	W/.	WITH
L	ANGLE	WP.	WORKING POINT
2L	DOUBLE ANGLE	WT.	WEIGHT
LG.	LONG	WWF.	WELDED WIRE FABRIC
LLH.	LONG LEG HORIZONTAL		
LLO.	LONG LEG OUT		

19. SPECIAL INSPECTIONS

A. REFER TO CHAPTER 17 OF SOUTH CAROLINA BUILDING CODE AND SHEET S-010 FOR SPECIAL INSPECTION REQUIREMENTS.

B. REPORTS OF INSPECTIONS, VERIFICATIONS AND/OR TESTING SHALL BE SUBMITTED EVERY TWO WEEKS OR LESS AS REQUIRED TO ALLOW FOR TIMELY REVIEW AND FIELD MODIFICATIONS IF ANY ARE REQUIRED.

C. SPECIAL INSPECTION REPORTS AND FINAL REPORT, IN ACCORDANCE WITH SECTION 1704.2.4 OF THE REFERENCED BUILDING CODE, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing. the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
GENERAL NOTES

S-003
Sheet Number

NOT ISSUED FOR CONSTRUCTION

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Master Submittal List

Submittal Type	Description	For Approval by E.O.R.	For Review by E.O.R.	For E.O.R.'s Record	Shop Drawings Signed/Sealed by Professional Engineer?	Calculations Signed/Sealed by Professional Engineer?
Shallow Foundations						
Concrete Mix Design	Should include the following items, at a minimum, for each mix design being submitted: Indication as to what structural components are to be poured with a given mix design (each mix design shall have its own unique name/number), mix design showing quantities by both weight and volume, 30-break history (or alternative data per ACI 318 §5.3/§5.4), cement mill certificate, material certificate(s) for supplementary cementicious materials (fly ash, slag, silica fume), gradation analysis (for both coarse and fine aggregates), cut sheets for all chemical admixtures, slump, air content, water/cement ratio, source data for aggregate silicious reactivity (ASR)	X				
Mild reinforcing		X				
Soil compaction test results				X		
Slabs on Grade						
Concrete Mix Design	Should include the following items, at a minimum, for each mix design being submitted: Indication as to what structural components are to be poured with a given mix design (each mix design shall have its own unique name/number), mix design showing quantities by both weight and volume, 30-break history (or alternative data per ACI 318 §5.3/§5.4), cement mill certificate, material certificate(s) for supplementary cementicious materials (fly ash, slag, silica fume), gradation analysis (for both coarse and fine aggregates), cut sheets for all chemical admixtures, slump, air content, water/cement ratio, source data for aggregate silicious reactivity (ASR)	X				
Vapor Barrier		X				
Concrete products (form oil, sealants, repair materials, etc.)		X				
Embedded items (embed plates, chubby smack, etc.)		X				
Reinforcing steel mill certificates				X		
Mild reinforcing		X				
Elevated Concrete Framing						
Concrete Mix Design	Should include the following items, at a minimum, for each mix design being submitted: Indication as to what structural components are to be poured with a given mix design (each mix design shall have its own unique name/number), mix design showing quantities by both weight and volume, 30-break history (or alternative data per ACI 318 §5.3/§5.4), cement mill certificate, material certificate(s) for supplementary cementicious materials (fly ash, slag, silica fume), gradation analysis (for both coarse and fine aggregates), cut sheets for all chemical admixtures, slump, air content, water/cement ratio, source data for aggregate silicious reactivity (ASR)	X				
PT friction loss calculations		X				X
PT stressing ram calibration				X		
Post-tensioning tendon mill certificates				X		
Reinforcing steel mill certificates				X		
Unbonded post-tensioned reinforcing		X				
Bonded post-tensioned reinforcing		X				
Mild reinforcing		X				
Embedded items (embed plates, chubby smack, etc.)		X				
Floor flatness and levelness				X		
Post-tensioning stressing records		X				
Shoring and backshoring			X		X	X
Formwork		X			X	
Horizontal construction joint locations		X				
Penetration/sleeving plan (vertical sleeves through slabs, beams, joists)		X				
Penetration/sleeving plan (horizontal sleeves through beams, walls, columns)		X				
Structural Precast Concrete						
Concrete Mix Design	Should include the following items, at a minimum, for each mix design being submitted: Indication as to what structural components are to be poured with a given mix design (each mix design shall have its own unique name/number), mix design showing quantities by both weight and volume, 30-break history (or alternative data per ACI 318 §5.3/§5.4), cement mill certificate, material certificate(s) for supplementary cementicious materials (fly ash, slag, silica fume), gradation analysis (for both coarse and fine aggregates), cut sheets for all chemical admixtures, slump, air content, water/cement ratio, source data for aggregate silicious reactivity (ASR)	X				
Precast erection drawings		X			X	
Precast design and connection calculations		X				X

Master Submittal List

Submittal Type	Description	For Approval by E.O.R.	For Review by E.O.R.	For E.O.R.'s Record	Shop Drawings Signed/Sealed by Professional Engineer?	Calculations Signed/Sealed by Professional Engineer?
Architectural Precast Concrete						
Concrete Mix Design	Should include the following items, at a minimum, for each mix design being submitted: Indication as to what structural components are to be poured with a given mix design (each mix design shall have its own unique name/number), mix design showing quantities by both weight and volume, 30-break history (or alternative data per ACI 318 §5.3/§5.4), cement mill certificate, material certificate(s) for supplementary cementicious materials (fly ash, slag, silica fume), gradation analysis (for both coarse and fine aggregates), cut sheets for all chemical admixtures, slump, air content, water/cement ratio, source data for aggregate silicious reactivity (ASR)	X				
Precast erection drawings		X			X	
Precast design and connection calculations		X				X
Elevated Structural Steel Framing						
Structural steel		X				
Structural steel connections		X				X
Structural steel mill certificates - Rolled Shapes			X			
Structural steel mill certificates - Tubing, Bar			X			
Fabricator qualification data			X			
Welder certificates			X			
Erector qualification data			X			
High-strength steel bolts		X				
Direct-tension indicator washers		X				
Tension-control high strength bolt-nut-washer assemblies		X				
Anchor rods, base plates and anchor rod templates		X				
Shear stud connectors		X				
Steel joists and joist girders		X				
Special steel joists		X			X	X
Non-shrink, non-metallic grout (for base plates)		X				
Erection bracing		X			X	
Metal Decking						
Composite steel floor deck		X				
Steel roof deck		X				
Shoring and backshoring		X			X	X
Metal deck fasteners		X				
Cold-formed Metal Stud Framing						
Load-bearing cold-formed metal studs		X			X	X
Non-load-bearing cold-formed metal studs supporting exterior cladding		X			X	X
Cold-formed metal mill certificates			X			
Cold-formed metal ceiling and/or roof rafters		X			X	X
Cold-formed member calculations (for members designed by a specialty engineer)						X
Metal stud fasteners		X				
Steel Stairs						
Stair shop drawings		X			X	
Stair calculations		X				X
Wood Framing						
Wood product information (sawn lumber)		X				
Wood product information (engineered lumber)		X				
Load-bearing stud wall layout		X				
Engineered wood trusses and girder trusses (design by specialty engineer)		X				X
Wood framing hardware		X				
Uplift anchors (as required)		X				
Nailing submittal		X				
Concrete Masonry (CMU)						
CMU product information		X				
Mild reinforcing		X				
Grout mix design		X				
Mortar mix design		X				
Embedded items (embed plates, bearing plates, etc.)		X				
Miscellaneous						
Window-washing tie-back system		X			X	
Storefront shop drawings		X			X	X
Window Wall shop drawings		X			X	X
Curtainwall shop drawings		X			X	X
Crane opening(s) within elevated/structured framing		X				
Crane connection(s) to foundation and/or elevated framing		X				X
Barrier cable / cable guard rail		X			X	X
Elevator shop drawings		X				
Handrail shop drawings (steel, aluminum, other)		X			X	X
Substitutions						
Materials		X				
Member sizes		X				
Methods of construction			X			

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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MASTER SUBMITTAL LIST

S-004
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Category	Item #	Verification & Inspection	Continuous	Periodic	Req. Y / N	Reference Standard or Compliance Document	IBC Reference	Special Inspector
1704.2.4 Report Requirement								
Rep.	1	Special Inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered design professional in responsible charge.	•	--	Y		1704.2.4	
1704.2.5 Inspection of Fabricated Items								
Fab.	1	Work done in fabricator shop requires inspector unless the fabricator is registered and approved according to IBC 1704.2.5.1. Where fabricator is approved, **provide fabricator certification document.**	--	•	Y		1704.2.5 Document Required	
Fab.	2	At completion of fabrication, submit certificate of compliance to building official stating the work was performed in accordance with the approved construction documents.	--	•	Y		1704.2.5.1 Document Required	
1704.3 Statement of Special Inspections								
Rep.		A registered design professional in responsible charge shall prepare a statement of special inspections	--	•	Y		1704.3 (THIS DOCUMENT)	
1704.4 Contractor Responsibility								
Rep.		Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility.	--	•	Y		1704.4 (Page 4 Document required)	
1704.5 Submittals to the Building Official								
Rep.		In addition to the submittal reports of special inspections and tests in accordance with Section 1704.2.4, reports and certificates shall be submitted by the owner or owner's authorized agent to the building official for each of the following.	•	--	Y		1704.5	
Rep.	1	Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approval fabricator in accordance with Section 1704.2.5.1	•	--	Y	Section 1704.2.5.1 (Fabricator)	1704.5	
Rep.	2	Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	•	--	Y	Section 1705.13.2	1704.5	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Rep.	3	Certificates of compliance for designated seismic systems in accordance with Section 1705.1.3.3	•	--	N	Section 1705.1.3.3 and 1704.3.2	1704.5 and 1704.3.2	
Rep.	4	Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	•	--	N	Section 1908.5	1704.5	
Rep.	5	Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	•	--	Y	Section 2207.5	1704.5	
Rep.	6	Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.5.4. of ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	•	--	N	AWS D1.4 Section Section 26.5.4 of ACI 318 ASTM A 706	1704.5	
Rep.	7	Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	•	--	N	Section 20.2.2.5 of ACI 318 ASTM A 615	1704.5	
1704.6 Structural Observation								
Rep.		The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.	--	•	N	Seismic Design Category D, E or F only	1704.6	
1705.2.1 Steel Construction Inspection								
Stl.	1	Structural Steel shall be in accordance with the quality assurance inspection requirements of AISC 360	--		Y	AISC 360	1705.2.1	
1705 Steel Construction other than Structural Steel Inspection								
Stl.	1	Material verification of high-strength bolts, nuts and washers				ASTM Standards	1705.2	
Stl.	1a	Identification markings to conform to ASTM standards specified in the approved construction documents	--	•	Y	AISC 360, Section A3.3 and applicable ASTM material standards	1705.2	
Stl.	1b	Manufacturer's certificate test reports	--	•	Y		1705.2	
Stl.	2	Inspection of welding						
	2a.	Cold-formed steel deck						
Stl. (str)	2a (1)	Floor and roof deck welds	--	•	Y	AWS D1.3	1705.3	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
	2b	Reinforcing steel		--			1705.3	
Stl. (reinf)	2b (1)	Verification of weldability of reinforcing steel other than ASTM A 706		•	N	AWDS D1.4 ACI 318: 3.5.2	1705.2	
Stl (reinf)	2b (2)	Reinforcing steel-resisting flexural and axial forces	•	--	Y	AWDS D1.4 ACI 318: 3.5.2	1705.2	
Stl. (reinf)	2b (3)	Shear reinforcement	•	--	Y	AWDS D1.4 ACI 318: 3.5.2	1705.2	
Stl. (reinf)	2b (4)	Other reinforcing steel	--	•	Y	AWDS D1.4 ACI 318: 3.5.2	1705.2	
1705.2.3 Inspection of Open-web Steel Joist and Joist Girders								
Stl.	1	Installation of open-web steel joist and joist girders				SJI specification listed in Section 2207.1	Table 1705.2.3	
Stl.	1a	End connections – welding or bolted	--	•	Y		Table 1705.2.3	
Stl.	1b	Bridging – horizontal or diagonal				SJI specification listed in Section 2207.1	Table 1705.2.3	
Stl.	1b (1)	Standard bridging	--	•	Y		Table 1705.2.3	
Stl.	1b (2)	Bridging that differs from the SJI specifications listed in Section 2207.1	--	•	N		Table 1705.2.3	
1705.3 Concrete Construction								
Conc.	1	Inspection of reinforcing steel including prestressing tendons, and placement	--	•	Y	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1-26.5.3, 35 and IBC 1905	1705.3	
Conc.	2	Reinforcing bar welding					Table 1705.3	
Conc.	2a	Verify weldability of reinforcing bars other than ASTM A 706	--	•	N	IBC 1905 AWS D1.4 ACI 318: 26.5.4	Table 1705.3	
Conc.	2b	Inspect single-pass welds, maximum 5/6"	--	•	Y		Table 1705.3	
Conc.	2c	Inspect all other welds	--	•	Y		Table 1705.3	
Conc.	3	Inspection of anchors cast in concrete	--	•	Y	IBC 1905 ACI 318: 17.8.2	Table 1705.3	
Conc.	4	Inspection of anchors post-installed in hardened concrete members						
Conc.	4a	Adhesive anchors installed in horizontally or upwardly inclined	•	--	Y	ACI 318: 17.8.2.4	Table 1705.3	
Conc.	4b	Mechanical anchors and adhesive anchors not defined in 4a	--	•	Y	ACI 381: 17.8.2	Table 1705.3	
Conc.	5	Verifying use of required design mix	--	•	Y	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, Table 1705.3	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Conc.	6	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	•	--	Y	ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12	1908.10 & Table 1705.3	
Conc.	7	Inspection of concrete and shotcrete placement for proper application techniques	•	--	Y	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8, Table 1705.3	
Conc.	8	Verify maintenance of specified curing temperature and techniques	--	•	Y	ACI 318: 26.4.7 – 26.4.9	1908.9 & Table 1705.3	
Conc.	9	Inspection of pre-stressed concrete						
Conc.	9a	Application of pre-stressing forces	•	--	Y	ACI 318: 26.9.2.1 ACI 318: 26.9.2.3	Table 1705.3	
Conc.	9b	Grouting of bonded pre-stressing tendon	•	--	N		Table 1705.3	
Conc.	10	Inspect erection of precast concrete members	--	•	Y	ACI 318: Ch. 26.8	Table 1705.3	
Conc.	11	Verification of in-situ concrete strength, prior to stressing of tendons in post0tensioned concrete and prior to removal of shores and forms from beams and structural slabs	--	•	Y	ACI 318: 26.10.2	Table 1705.3	
Conc.	12	Inspect formwork for shape, location and dimensions of the concrete member being formed	--	•	Y	ACI 318: 26.10.1(b)	Table 1705.3	
1705.4 Masonry Construction								
Mas.		Masonry construction shall be inspected and verified per standards	--	•	Y	TMS 402/ACI 530/ASCE 5 and TMS 602/ACI 530.1/ ASCE 6	1705.4	
Mas.	1	Empirically design masonry, glass unit masonry and masonry veneer in Risk Category IV	•	--	N	Section 2109, 2110 or Chapter 14, Section 1604.5, shall comply with TMS 402/ACI 530/ ASCE 5 Level B Quality Assurance	1705.4.1	
Mas.	2	Vertical masonry foundation elements	--	•	Y	IBC Section 1705.4	1705.4.2	
1705.5 Wood Construction								
Wd	1	High-Load Diaphragms	--	•	Y	IBC Sec. 2306.2, Sec 1704.2, approved construction drawings	1705.5.1	
Wd	2	Metal-plate-connected wood trusses spanning 60 feet or greater	--	•	Y	Approved truss submittal package (bracing)	1705.5.2	
1705.6 Soils								
Soil	1	Verify materials below shallow foundations are adequate to achieve the design bearing capacity	--	•	Y		Table 1705.6	
Soil	2	Verify excavations are extended to proper depth and have reached proper material	--	•	Y		Table 1705.6	
Soil	3	Perform classification and testing of compacted fill materials	--	•	Y		Table 1705.6	
Soil	4	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	•	--	Y		Table 1705.6	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Soil	5	Prior to placement of compacted fill, observe sub-grade and verify that site has been prepared properly	--	•	Y		Table 1705.6	
1705.7 Driven Deep Foundation								
Drv	1	Verify element materials, sizes and lengths comply with the requirements	•	--	N		Table 1705.7	
Drv	2	Determine capacities of test elements and conduct additional load tests, as required	•	--	N		Table 1705.7	
Drv	3	Inspect driving operations and maintain complete and accurate records for each element	•	--	N		Table 1705.7	
Drv	4	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	•	--	N		Table 1705.7	
Drv	5	For steel elements, perform additional inspections in accordance with Section 1705.2	--	--	N		Sec. 1705.7 & Table 1705.7	
Drv	6	For concrete elements and concrete filled elements, perform additional inspections in accordance with Section 1705.3	--	--	N		Sec. 1705.7 & Table 1705.7	
Drv	7	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	--	--	N		Table 1705.7	
1705.8 Cast-In-Place Deep Foundation								
CIP	1	Inspect drilling operations and maintain complete and accurate records for each element	•	--	N		Table 1705.8	
CIP	2	Verify placement locations and plumbness; confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes	•	--	N		Table 1705.8	
CIP	3	For concrete elements, perform additional inspections in accordance with Section 1705.3	--	--	N		Sec. 1705.3 & Table 1705.8	
1705.9 Helical Pile Foundations								
HPF	1	Installation of helical pile foundations	•	--	N	Approved Geotechnical report and registered design professional	1705.9	
1705.10 Special Inspections for Fabricated Items								
Fab		Special inspections of fabricated items shall be performed in accordance with Section 1704.2.5					1705.10	
1705.11 Special Inspections for Wind Resistance								
Wind		Wind Requirements for buildings and structures per 1705.11					1705.11	
Wind	1	Structural Wood	•	--	N		1705.11.1	
Wind	2	Cold-formed steel light-frame construction	--	•	N		1705.11.2	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Wind	3	Wind-resisting components. 1. Roof covering, roof deck and roof framing connections 2. Exterior wall covering and wall connections to roof and floor diaphragms and framing	--	•	N		1705.11.3	
1705.12 Special Inspection for Seismic Resistance								
Seis	1	Structural Steel seismic resistance shall be in accordance with Section 1705.12.1.1 or 1705.12.1.2 as applicable				Section 1705.12.1.1 Section 1705.12.1.2	1705.12.1	
Seis	1a	Seismic force-resisting systems of structural steel in the seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B, C, D, E or F shall be performed in accordance with the quality assurance of requirements of AISC 341.	•	--	Y	AISC 341	1705.12.1.1	
Seis	1b	Structural steel elements in the seismic force resisting systems of buildings and structures assigned to Seismic Design Category B, C, D, E or F other than those covered in Section 1705.12.1.1, including struts, collectors, chords and foundation elements, shall be performed in accordance with the quality assurance requirements of AISC 341	•	--	Y	Section 1705.12.1.1 AISC 341	1705.12.1.2	
Seis	2	Structural wood for the seismic force-resisting systems of structures assigned to Seismic Design Category C, D, E or F					1705.12.2	
Seis	2a	Structural wood field gluing operations of elements of seismic force-resisting system	•	--	N		1705.12.2	
Seis	2b	Structural wood fastening for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold downs	--	•	Y		1705.12.2	
Seis	3	Cold-formed steel light-frame construction for seismic force resisting systems of structures assigned to Seismic Design Category C, D, E or F					1705.12.3	
Seis	3a	For welding operations of elements of the seismic force resisting system	--	•	Y		1705.12.3	
Seis	3b	For screw attachment, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs	--	•	Y		1705.12.3	
Seis	4	Designated seismic system verifications for structures assigned to Seismic Design Category C, D, E or F, the special inspector shall examine designated seismic systems requiring seismic qualification in accordance with Section 13.2.2 of ASCE 7 and verify that the label, anchorage and mounting conform to the certificate of compliance	--	•	N	Section 13.2.2 ASCE 7	1705.12.4	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent
Seis	5	Architectural Components in D, E, or F	--	•	N	D, E, F	1705.12.5	
Seis	5.1	Access Floors in D, E, or F	--	•	N	D, E, F	1705.12.5.1	
Seis	6	Plumbing, Mechanical and Electrical Components					1705.12.6	
Seis	6a	Anchorage of electrical equipment for emergency or standby power systems, in C, D, E or F	--	•	N		1705.12.6	
Seis	6b	Anchorage of other electrical equipment in E or F	--	•	N		1705.12.6	
Seis	6c	Installation and anchoring of piping systems designed to carry hazardous materials and associated mechanical units in C, D, E or F	--	•	N		1705.12.6	
Seis	6d	Installation of HVAC ductwork that wil carry hazardous materials in C, D, E or F	--	•	N		1705.12.6	
Seis	6e	Installation of vibration isolation systems with clearance less than 0.25 inches between equipment support frame and restraint where indicated on construction documents in C, D, E or F	--	•	N		1705.12.6	
Seis	7	Storage Rack during anchoring storage racks 8 feet or greater in height in D, E or F	--	•	N		1705.12.7	
Seis	8	Seismic Isolation System	--	•	N		1705.12.8	
Seis	9	Cold-formed steel special bolted moment frames in the seismic force-resisting systems of structures assigned to seismic Design Category D, E or F	--	•	N		1705.12.9	
1705.13 Testing for Seismic Resistance								
Test	1	Structural Steel	•	--	Y	Section 1705.13.1.1 Section 1705.13.1.2	1705.13.1	
Test	2	Seismic force-resisting systems	•	--	Y	AISC 341	1706.13.1.1	
Test	3	Structural steel elements	•	--	Y	AISC 341	1705.13.1.2	
Test	4	Seismic certification of nonstructural components and designated seismic systems	•	--	N	Per the registered design professionals requirements on the construction documents. Sec. 13.2 of ASCE 7	1705.13.2 and 1705.13.3	
Test	5	Seismically isolated structures	•	--	N	Sec. 17.8 of ASCE 7	1705.13.4	

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
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HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
SCHEDULE OF SPECIAL INSPECTIONS

S-010

Sheet Number

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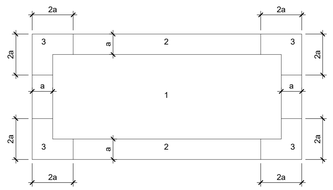
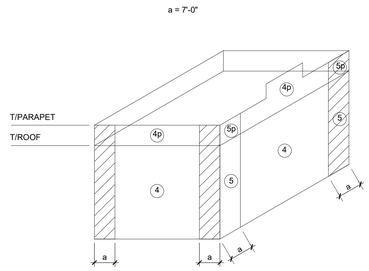
NOTES:
1. WIND PRESSURES SHOWN IN THIS DIAGRAM ARE ULTIMATE LEVEL (FACTORED) LOADS PER ASCE 7-10 AND THE 2012 INTERNATIONAL BUILDING CODE. WHERE SERVICE LEVEL (UNFACTORED) WIND PRESSURES ARE NEEDED FOR DESIGN, THE VALUES IN THIS DIAGRAM SHALL BE MULTIPLIED BY A FACTOR OF 0.60.
2. TABLE PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN.
3. POSITIVE PRESSURES ACT TOWARD THE BUILDING, NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
4. SEE DIAGRAMS FOR LOCATIONS OF ZONES.
5. A MINIMUM DEAD LOAD EQUAL TO 12 PSF MAY BE INCLUDED FOR NET ROOF UPLIFT PRESSURES.



FLAT ROOF PLAN (GENERIC BUILDING SHOWN)



WALLS (GENERIC BUILDING SHOWN)

COMPONENT & CLADDING DESIGN WALL PRESSURES				
ROOF (PSF)				
	FLAT			
ZONE	10 SF	50 SF	100 SF	500 SF
ALL ZONES	+16.0	+16.0	+16.0	+16.0
1	-21.4	-20.1	-19.6	-19.6
2	-35.9	-27.0	-23.2	-23.2
3	-54.0	-32.5	-23.2	-23.2
WALLS (PSF)				
ZONE				
	20 SF	50 SF	100 SF	500 SF
4	+19.6 -21.2	+17.5 -19.2	+16.7 -18.3	+16.0 -16.3
5	+19.6 -26.1	+17.5 -22.1	+16.7 -20.3	+16.0 -16.3
PARAPET (PSF)				
ZONE	10 SF	50 SF	100 SF	500 SF
4p	+49.8 -34.8	+38.7 -30.7	+33.9 -29.0	+31.9 -24.9
5p	+68.2 -39.8	+44.2 -33.7	+33.9 -31.0	+31.9 -24.9

1 COMPONENT AND CLADDING WIND LOADS (HOTEL)

S-020

SCALE: 3/4" = 1'-0"

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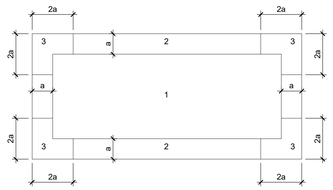
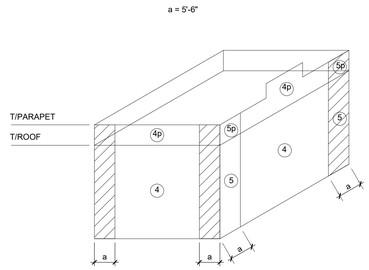
3. POSITIVE PRESSURES ACT TOWARD THE BUILDING, NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
4. SEE DIAGRAMS FOR LOCATIONS OF ZONES.
5. A MINIMUM DEAD LOAD EQUAL TO 12 PSF MAY BE INCLUDED FOR NET ROOF UPLIFT PRESSURES.



FLAT ROOF PLAN (GENERIC BUILDING SHOWN)



WALLS (GENERIC BUILDING SHOWN)

COMPONENT & CLADDING DESIGN WALL PRESSURES				
ROOF (PSF)				
	FLAT			
ZONE	10 SF	50 SF	100 SF	500 SF
ALL ZONES	+16.0	+16.0	+16.0	+16.0
1	-21.0	-19.7	-19.2	-19.2
2	-35.2	-26.5	-22.8	-22.8
3	-53.0	-31.9	-22.8	-22.8
WALLS (PSF)				
ZONE				
	20 SF	50 SF	100 SF	500 SF
4	+19.2 -20.8	+17.2 -18.8	+16.4 -18.0	+16.0 -16.0
5	+19.2 -25.6	+17.2 -21.7	+16.4 -18.0	+16.0 -16.0
PARAPET (PSF)				
ZONE	10 SF	50 SF	100 SF	500 SF
4p	+48.0 -33.6	+37.3 -29.7	+32.7 -28.0	+30.8 -24.0
5p	+65.8 -38.4	+42.7 -32.5	+32.7 -29.0	+30.8 -24.0

2 COMPONENT AND CLADDING WIND LOADS (AMENITY BUILDING)

S-020

SCALE: 3/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
STRUCTURAL LOADING INFORMATION

S-020

Sheet Number

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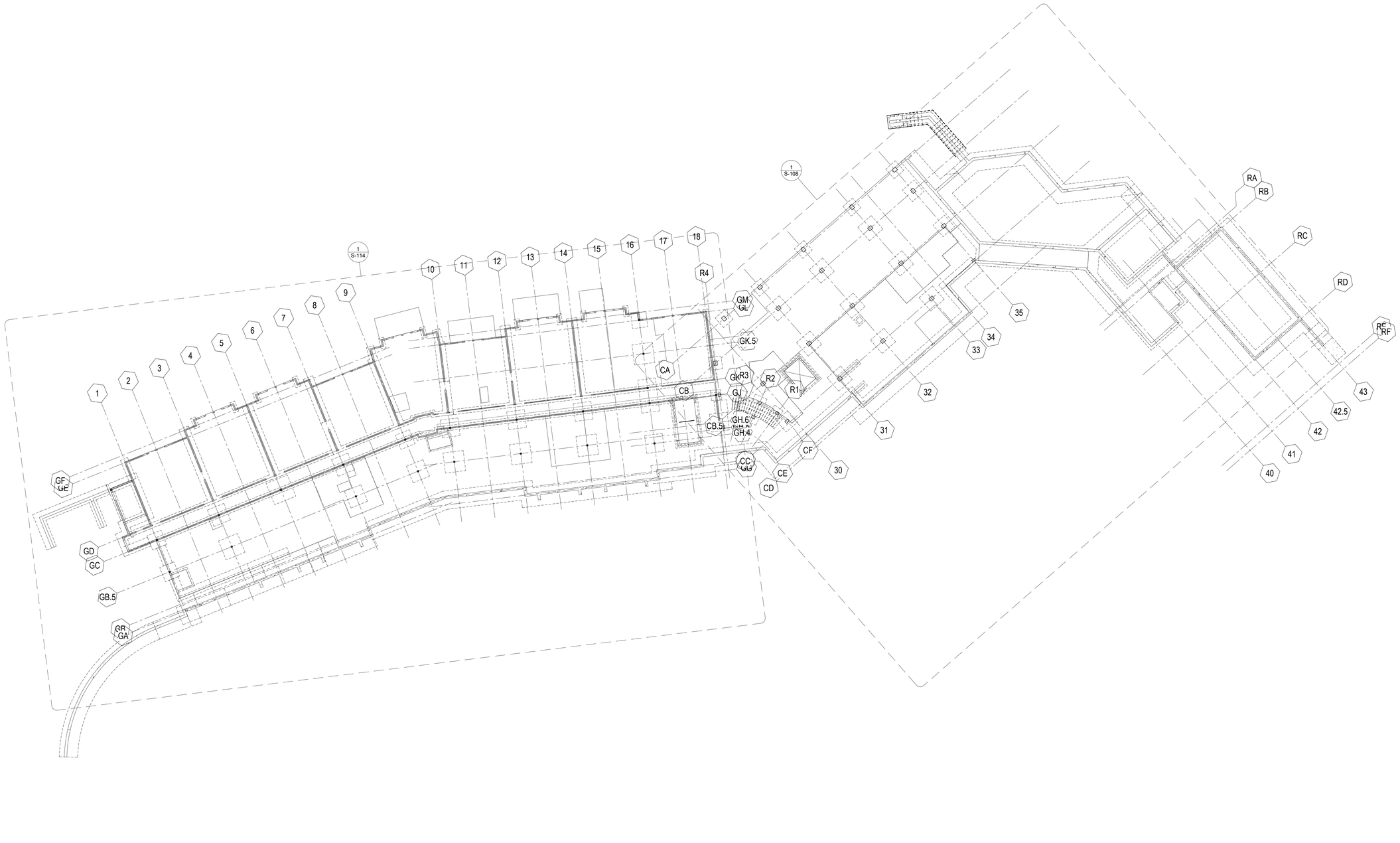

1 HOTEL L1 OVERALL PLAN

S-101

SCALE: 1/16" = 1'-0"

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Sheet Title
L1 OVERALL PLAN

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Sheet Number

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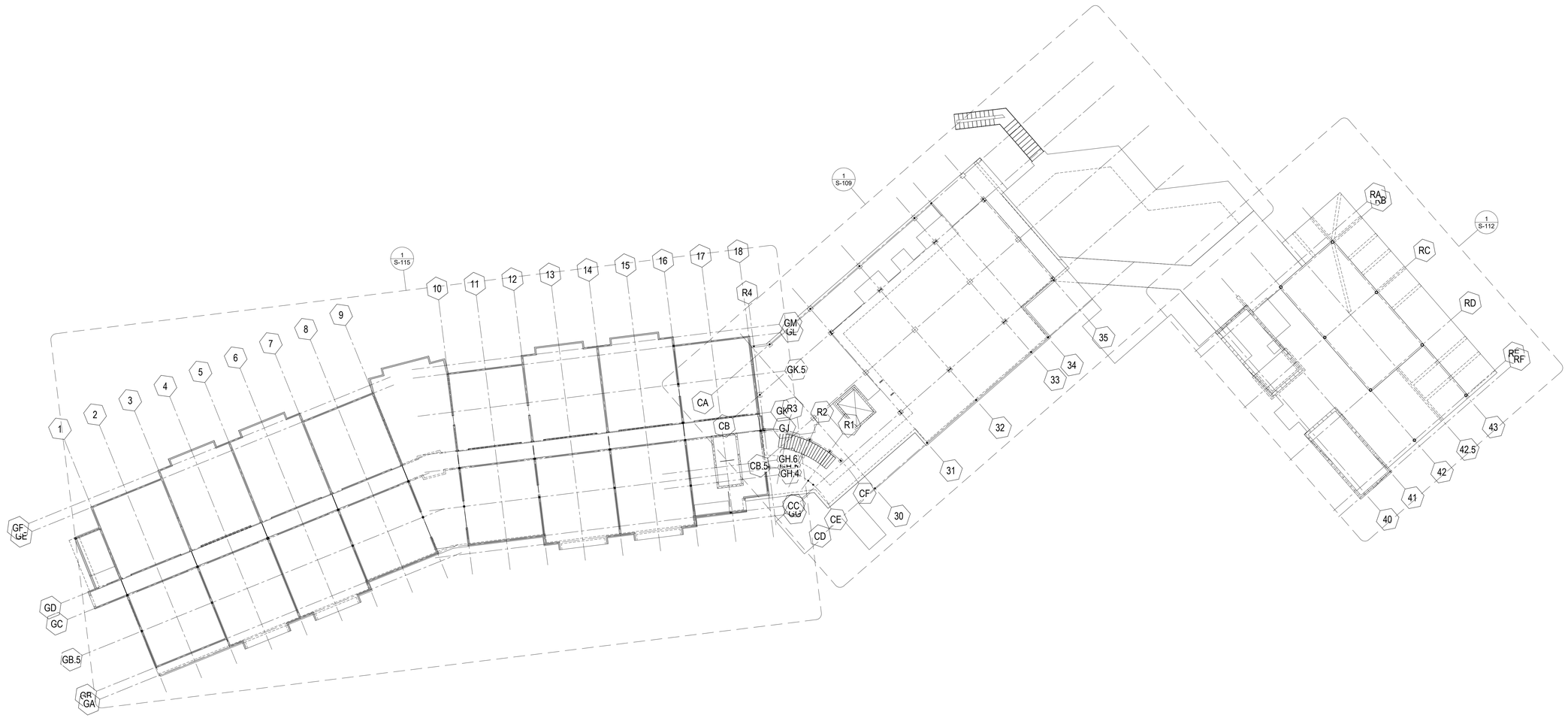

1 L2 OVERALL PLAN

S-102

SCALE: 1/16" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
L2 OVERALL PLAN

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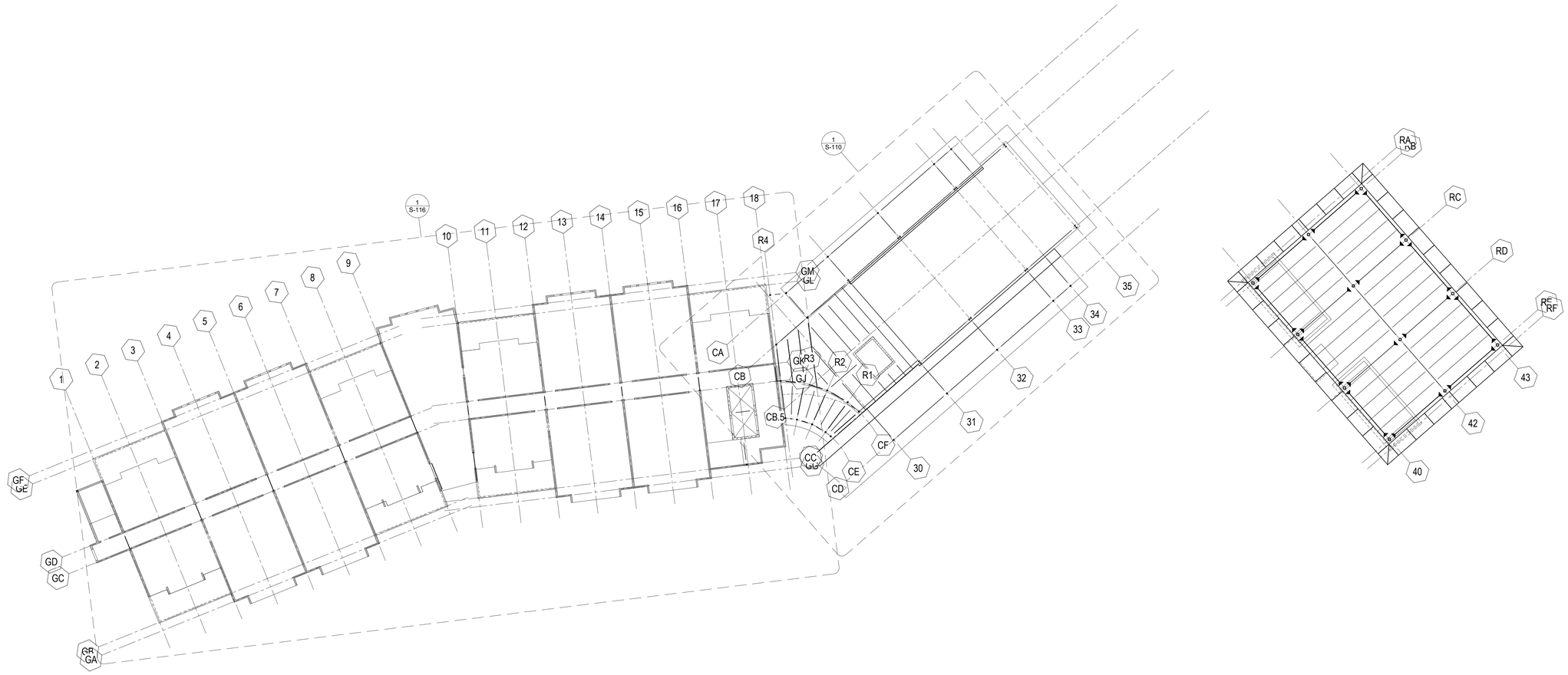

1 L3 OVERALL PLAN

S-103

SCALE: 1/16" = 1'-0"

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HOTEL HARTNESS

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Sheet Title
L3 OVERALL PLAN

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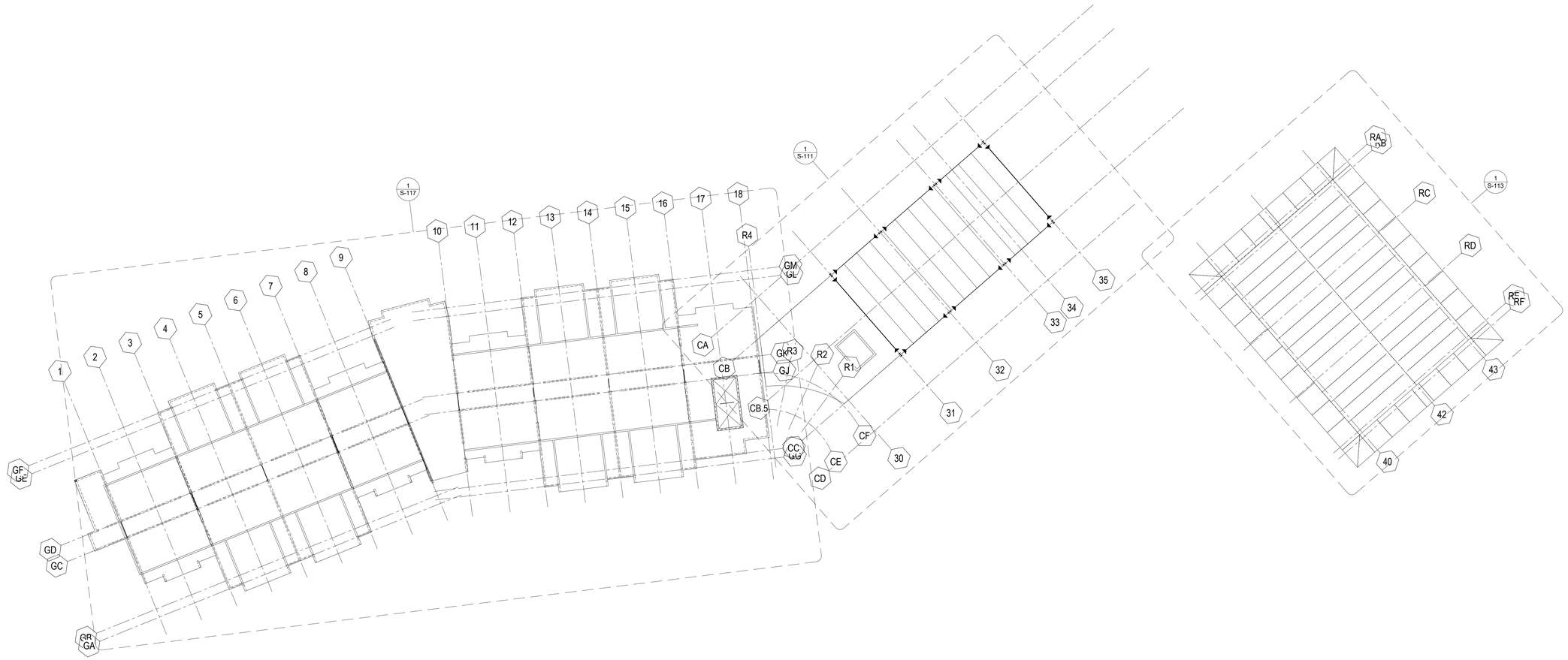

1 L4 OVERALL PLAN

S-104

SCALE: 1/16" = 1'-0"

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Sheet Title
L4 OVERALL PLAN

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Sheet Number

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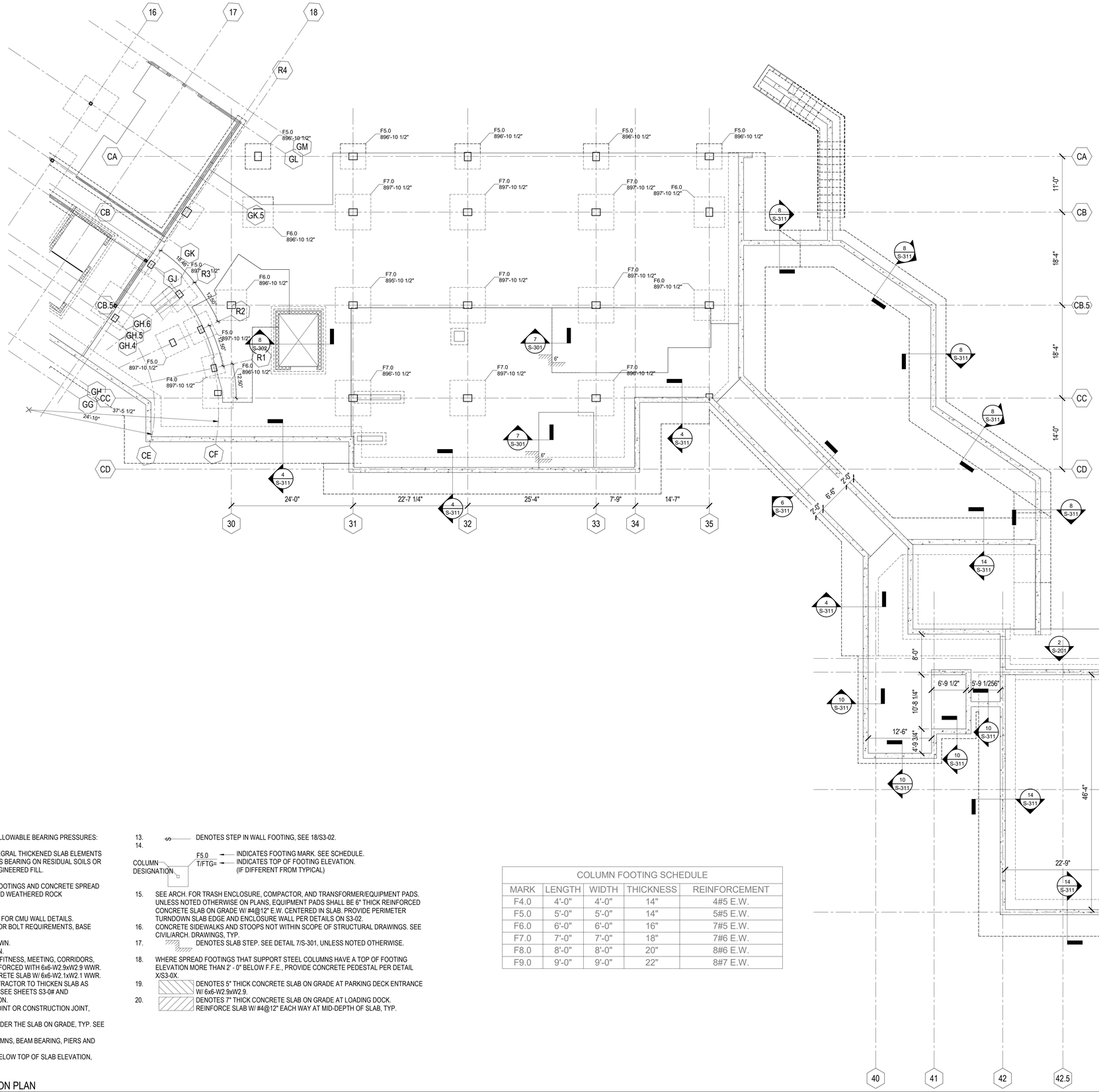

FOUNDATION NOTES:

1. FOUNDATIONS ARE DESIGNED FOR THE FOLLOWING ALLOWABLE BEARING PRESSURES:

   2,500 PSF — CONCRETE SLAB ON GRADE, INTEGRAL THICKENED SLAB ELEMENTS AND INTEGRAL SPREAD FOOTINGS BEARING ON RESIDUAL SOILS OR NEWLY PLACED COMPACTED, ENGINEERED FILL.

   2,500 PSF — CONTINUOUS CONCRETE WALL FOOTINGS AND CONCRETE SPREAD FOOTINGS ON NATURAL SOILS AND WEATHERED ROCK

2. SEE SHEETS **S-30#** FOR FOUNDATION DETAILS.
3. DENOTES CMU WALL. SEE SHEETS **S-420** FOR CMU WALL DETAILS.
4. SEE SHEET S-510 FOR STEEL COLUMN DETAILS, ANCHOR BOLT REQUIREMENTS, BASE PLATE DETAILS, ETC.
5. SEE ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
6. REFER TO PLANS FOR TOP OF SLAB DATUM ELEVATION.
7. SLAB ON GRADE AT LOBBIES, KITCHEN, RESTAURANT, FITNESS, MEETING, CORRIDORS, PUBLIC ASSEMBLY SHALL BE 5" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWR. SLAB ON GRADE AT GUEST ROOMS SHALL BE 4" CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWR.
8. WHERE SLAB ON GRADE MUST SLOPE TO DRAIN, CONTRACTOR TO THICKEN SLAB AS REQUIRED TO MAINTAIN 4" MINIMUM THICKNESS, TYP. SEE SHEETS S3-0# AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
9. C.J. INDICATES SLAB ON GRADE CONTROL JOINT OR CONSTRUCTION JOINT, SEE DETAIL 20/S-301.
10. PROVIDE ONE (1) LAYER OF 10 MIL VAPOR BARRIER UNDER THE SLAB ON GRADE, TYP. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. ALL FOOTINGS TO BE CENTERED UNDER WALLS, COLUMNS, BEAM BEARING, PIERS AND PILASTERS, UNLESS NOTED OTHERWISE.
12. ALL TOP OF FOOTING ELEVATIONS SHALL BE -(1' - 6") BELOW TOP OF SLAB ELEVATION, UNLESS NOTED OTHERWISE.
13. DENOTES STEP IN WALL FOOTING, SEE 18/S3-02.
14. F5.0 — INDICATES FOOTING MARK. SEE SCHEDULE.
    COLUMN DESIGNATION — T/FTG= — INDICATES TOP OF FOOTING ELEVATION. (IF DIFFERENT FROM TYPICAL)
15. SEE ARCH. FOR TRASH ENCLOSURE, COMPACTOR, AND TRANSFORMER/EQUIPMENT PADS. UNLESS NOTED OTHERWISE ON PLANS, EQUIPMENT PADS SHALL BE 6" THICK REINFORCED CONCRETE SLAB ON GRADE W/ #4@12" E.W. CENTERED IN SLAB. PROVIDE PERIMETER TURNDOWN SLAB EDGE AND ENCLOSURE WALL PER DETAILS ON S3-02.
16. CONCRETE SIDEWALKS AND STOOPS NOT WITHIN SCOPE OF STRUCTURAL DRAWINGS. SEE CIVIL/ARCH. DRAWINGS, TYP.
17. DENOTES SLAB STEP. SEE DETAIL 7/S-301, UNLESS NOTED OTHERWISE.
18. WHERE SPREAD FOOTINGS THAT SUPPORT STEEL COLUMNS HAVE A TOP OF FOOTING ELEVATION MORE THAN 2' - 0" BELOW F.F.E., PROVIDE CONCRETE PEDESTAL PER DETAIL X/S3-0X.
19. DENOTES 5" THICK CONCRETE SLAB ON GRADE AT PARKING DECK ENTRANCE W/ 6x6-W2.9xW2.9.
20. DENOTES 7" THICK CONCRETE SLAB ON GRADE AT LOADING DOCK. REINFORCE SLAB W/ #4@12" EACH WAY AT MID-DEPTH OF SLAB, TYP.

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F4.0	4'-0"	4'-0"	14"	4#5 E.W.
F5.0	5'-0"	5'-0"	14"	5#5 E.W.
F6.0	6'-0"	6'-0"	16"	7#5 E.W.
F7.0	7'-0"	7'-0"	18"	7#6 E.W.
F8.0	8'-0"	8'-0"	20"	8#6 E.W.
F9.0	9'-0"	9'-0"	22"	8#7 E.W.

1 CONFERENCE CENTER L1 FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
CONFERENCE CENTER FOUNDATION PLAN

S-108
Sheet Number

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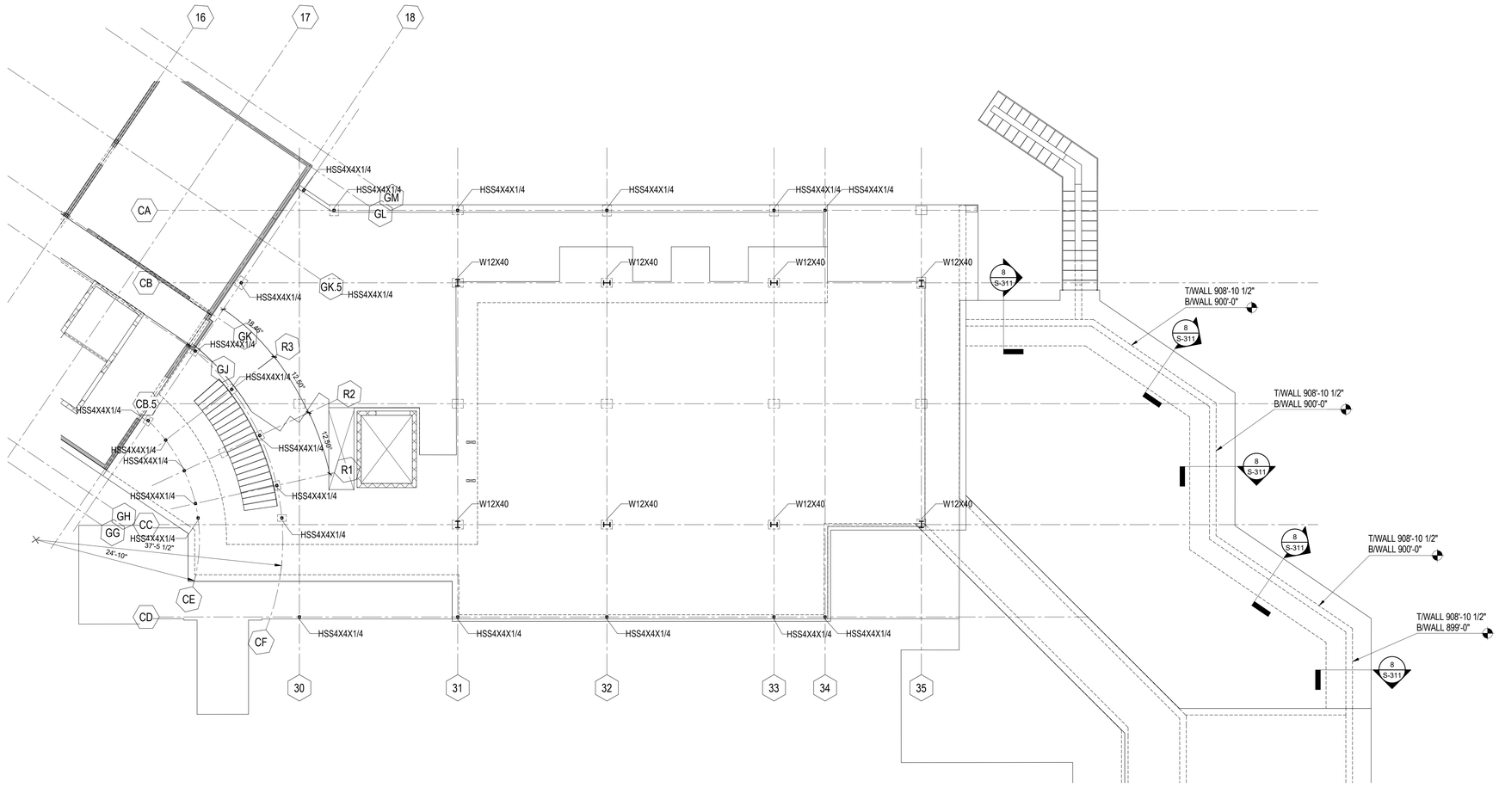

CONCRETE SLAB FRAMING PLAN NOTES:

1. FLOOR FRAMING SHALL CONSIST OF TWO-WAY POST-TENSIONED CONCRETE SLAB f'c=5000 PSI. SEE FRAMING PLAN FOR SLAB THICKNESS. SEE BEAM SCHEDULE FOR TRANSFER BEAMS AT COLUMNS ABOVE.
2. FINISHED FLOOR ELEVATION = SEE PLANS AND ARCH. DRAWINGS. COORDINATE SPOT ELEVATIONS, SLOPES AND DRAINS WITH ARCHITECTURAL DRAWINGS.
3. ALL DIMENSIONS ARE TO THE EDGE OF SLAB (EOS) OR CENTERLINE OF COL. (CL. COL) U.N.O.
4. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL E.O.S. DRAWINGS.
5. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL COORDINATE ALL SLAB OPENINGS, SIZES, AND LOCATIONS WITH THE M.E.P. DRAWINGS. SEE TYPICAL DETAILS ON SHEET S-431 FOR REINFORCEMENT.
6. <———> DENOTES DIRECTION OF ONE-WAY SLAB SPAN.
7. SEE MILD FRAMING PLAN FOR REQUIRED MILD REINF.
8. SEE PT FRAMING PLAN FOR REQUIRED POST-TENSION TENDONS.
9. SEE S-42# FOR CMU SECTIONS & DETAILS.
10. SEE S-43# FOR CONCRETE FRAMING SECTIONS & DETAILS.
11. SEE S-45# FOR CONCRETE BEAM SECTIONS & DETAILS.
12. SEE S-53# FOR CONCRETE COLUMN DETAILS.

1 CONFERENCE CENTER L2 FRAMING PLAN

S-109

SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
CONFERENCE CENTER L2 FRAMING PLAN

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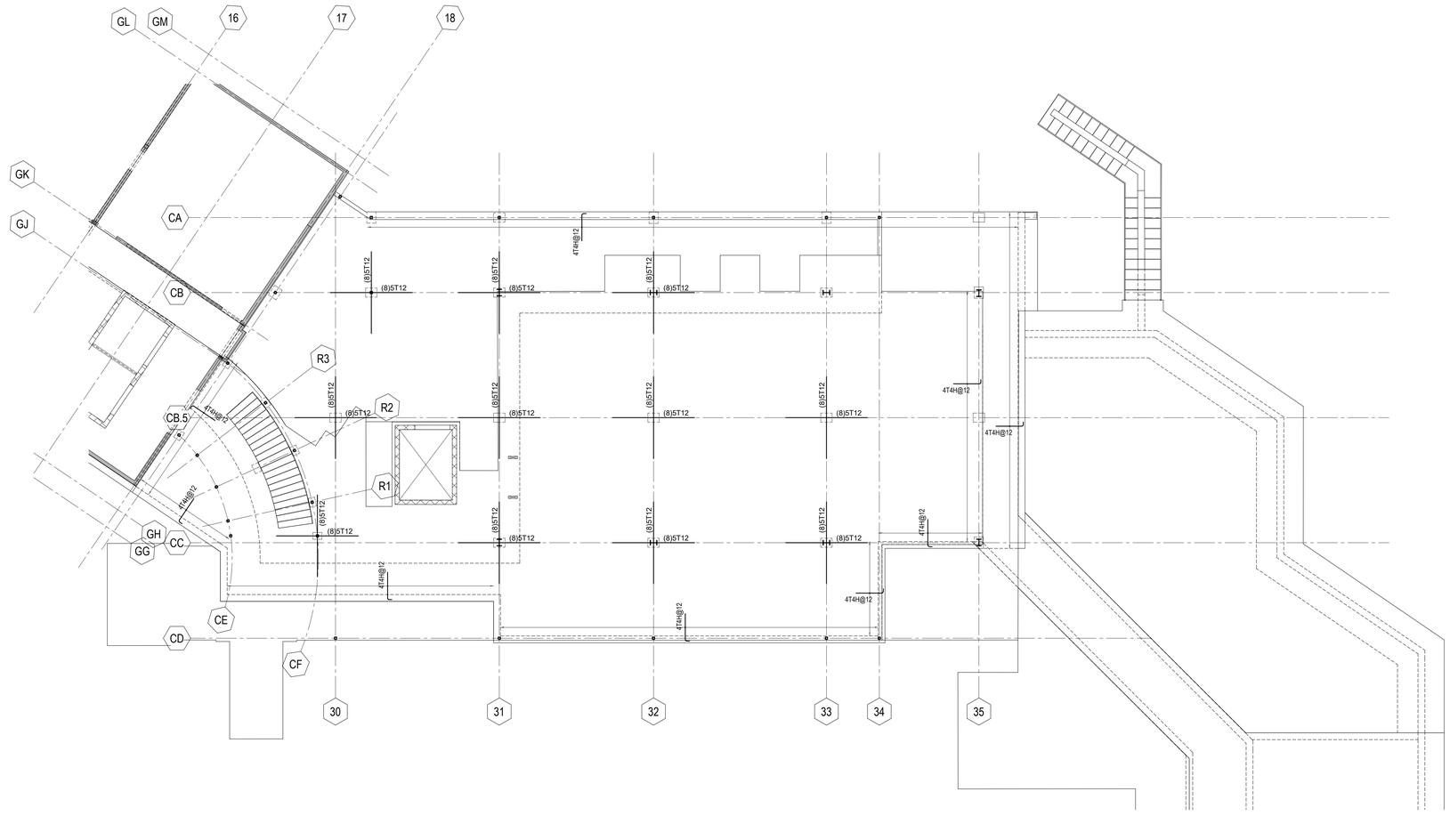

MILD REINFORCING FRAMING NOTES:

1. CONCRETE SLAB WITH DROP PANELS, f'c=5000 PSI (TOTAL SLAB THICKNESS AT PANELS = SLAB THICKNESS + DROP PANEL THICKNESS). SEE FRAMING PLAN FOR SLAB THICKNESS AND DROP PANEL THICKNESS.
2. FINISHED FLOOR ELEVATION = SEE ARCH. COORDINATE SPOT ELEVATIONS, SLOPES AND DRAINS WITH ARCHITECTURAL DRAWINGS.
3. ALL DIMENSIONS ARE TO THE EDGE OF SLAB (EOS) OR CENTERLINE OF COL. (CL. COL) UNLESS NOTED OTHERWISE.
4. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL E.O.S. DRAWINGS.
5. PLACE CORNER BARS AT ALL CORNERS, OPENINGS, & PENETRATIONS. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AROUND SLAB OPENINGS AND PENETRATIONS.
6. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL COORDINATE ALL SLAB OPENINGS, SIZES, AND LOCATIONS WITH THE M.E.P. DRAWINGS. SEE TYPICAL DETAILS ON SHEET S4-31 FOR REINFORCEMENT.
7. REBAR SUPPLIER SHALL PROVIDE 90° HOOK, A 180° END HOOK MAY BE SUBSTITUTED WHEN NECESSARY FOR EASE OF CONSTRUCTION.
8. (T / S) INDICATES TEMPERATURE & SHRINKAGE STEEL REQ'D FOR ONE-WAY SLAB. SEE TYPICAL TEMPERATURE & SHRINKAGE SCHEDULE DETAIL 1/S4-30.
9. DENOTES DIRECTION OF ONE-WAY SLAB SPAN.
10. PROVIDE AN ADDITIONAL (1)-#5 T&B AT ALL PERIMETER SLAB EDGES (2'-6" LAP). WHERE PERIMETER BEAMS EXISTS THESE BARS CAN BE OMITTED.
11. DENOTES BEAM CAGE REQUIRED BETWEEN COLUMNS PER TYPICAL DETAIL.
12. PROVIDE MINIMUM BOTTOM COVER OF 1-INCH TO ALL SLAB BOTTOM REINFORCEMENT IN THE PODIUM SLAB DUE TO 3 HOUR FIRE RATING SEPARATION REQUIREMENTS. PROVIDE MINIMUM BOTTOM COVER OF 3/4-INCH TO ALL SLAB BOTTOM REINFORCEMENT IN OTHER ELEVATED SLAB LOCATIONS.
13. ADDITIONAL BOTTOM BARS INDICATED IN PLAN SHALL BE LOCATED MIDWAY BETWEEN COLUMNS U.N.O.
14. PROVIDE CONTINUOUS BOTTOM MAT REINFORCEMENT IN PODIUM SLAB AS INDICATED. ALL BOTTOM MAT REINFORCEMENT SHALL BE INSTALLED "CONTINUOUS" WITH CLASS "B" TENSION LAP SPLICES IN ACCORDANCE WITH GENERAL NOTE 4.P ON S0-01.
15. PROVIDE #4@24" O.C. EACH WAY IN BOTTOM OF ALL DROP PANELS.

REBAR LABELING LEGEND:

(4) 5 T 12 H
- 90° HOOK (WHERE SHOWN)
- BAR LENGTH (FT)
- BAR LOCATION (TOP, BOTTOM, OR MID-DEPTH)
- BAR SIZE
- TOTAL NUMBER OF BARS

5 T 12 H @12
- SPACING OF BARS
- 90° HOOK (WHERE SHOWN)
- BAR LENGTH (FT)
- BAR LOCATION (TOP, BOTTOM, OR MID-DEPTH)
- BAR SIZE

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HOTEL HARTNESS

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Sheet Title
CONFERENCE CENTER L2 MILD REINFORCING PLAN

S-109M

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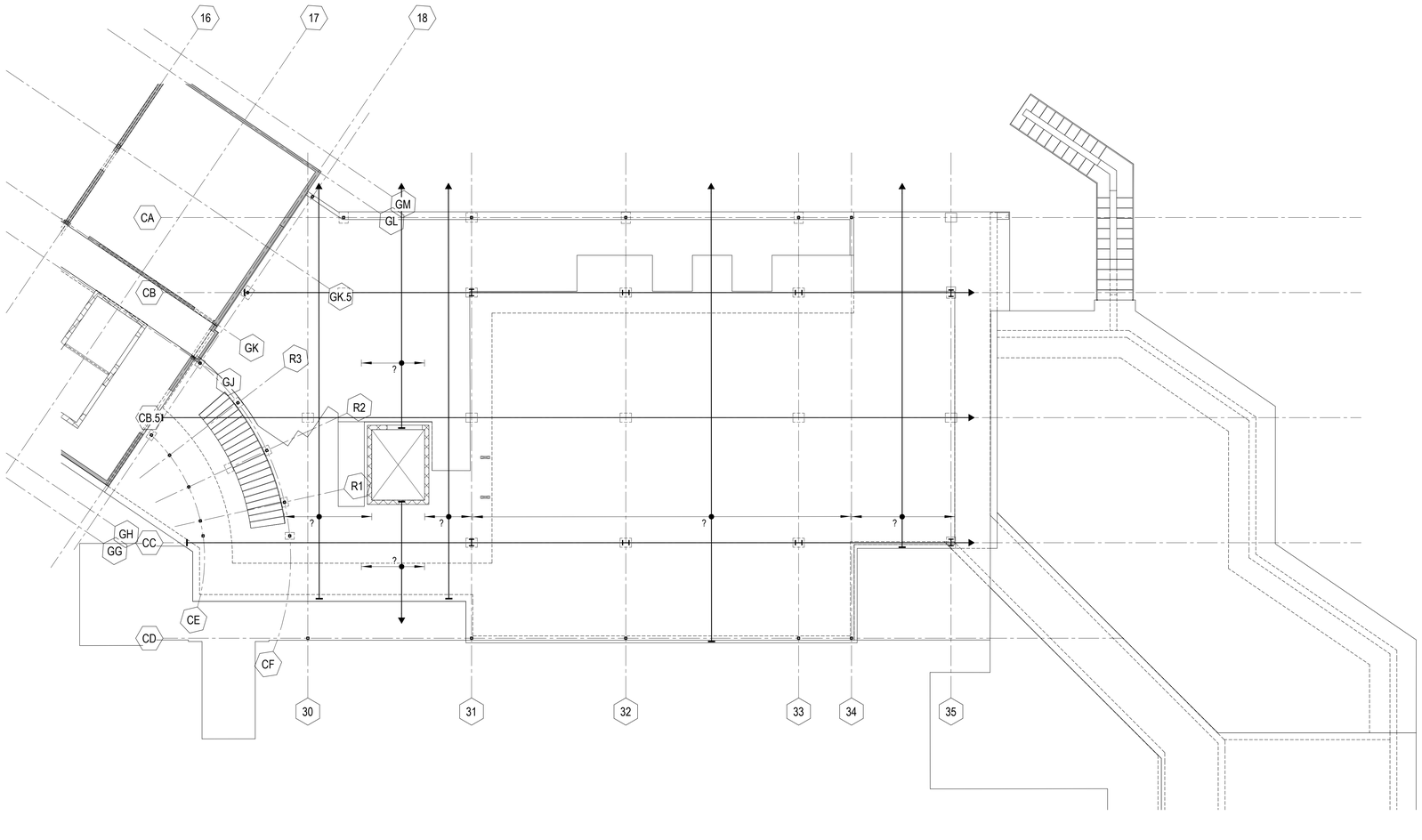

POST-TENSIONED SLAB FRAMING NOTES:

1. FLOOR FRAMING SHALL CONSIST OF TWO-WAY POST-TENSIONED CONCRETE SLAB WITH DROP PANELS, f'c=5000 PSI (TOTAL SLAB THICKNESS AT PANELS = SLAB THICKNESS + DROP PANEL THICKNESS). SEE FRAMING PLAN FOR SLAB THICKNESS AND DROP PANEL THICKNESS.
2. FINISHED FLOOR ELEVATION = SEE PLANS AND ARCH. DRAWINGS. COORDINATE SPOT ELEVATIONS, SLOPES AND DRAINS WITH ARCHITECTURAL DRAWINGS.
3. XX.X" INDICATES C.G.S. FROM SOFFIT IN INCHES. POST-TENSIONING TENDON PROFILE DIMENSIONS ARE MEASURE FROM THE SLAB/BEAM SOFFIT TO THE CENTER OF THE TENDON.
4. UNIFORM TENDON SUPPORT BARS SHALL BE #4 MINIMUM, PLACED AT 4'-0" MAX AND CONTINUOUS WITH 2'-0" LAP.
5. POST-TENSIONING FORCES SHOWN ON THE PLANS ARE FINAL EFFECTIVE FORCES. THE SUPPLIER SHALL INCREASE THE TENDON FORCES AS REQUIRED TO ACCOUNT FOR LOSSES.
6. PROVIDE PLASTIC, PLASTIC COATED, OR STAINLESS STEEL TIE WIRE AND PLASTIC COATED SUPPORT CHAIRS IN EXPOSED BALCONIES AND TERRACES.
7. WHEN 6 OR MORE TENDONS ARE ADDED, DEAD ENDS OF TENDONS SHALL BE STAGGERED.
8. THE POST-TENSIONING SUPPLIER SHALL PROVIDE BURSTING STEEL AT THE ANCHORAGES AND THE TIE REINFORCEMENT AS REQUIRED TO RESIST THE HORIZONTAL COMPONENT OF CURVED TENDONS; SEE TYPICAL DETAILS.
9. ALL DIMENSIONS ARE TO THE EDGE OF SLAB (EOS) OR CENTERLINE OF COL. (CL. COL) U.N.O.
10. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL E.O.S. DRAWINGS.
11. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL COORDINATE ALL SLAB OPENINGS, SIZES, AND LOCATIONS WITH THE M.E.P. DRAWINGS. SEE TYPICAL DETAILS ON SHEET S4-31 FOR REINFORCEMENT.
12. PROVIDE MINIMUM BOTTOM COVER OF 1-INCH TO ALL POST-TENSIONING TENDONS IN THE PODIUM SLAB DUE TO 3-HOUR FIRE RATING SEPARATION REQUIREMENTS. PROVIDE MINIMUM BOTTOM COVER OF 3/4-INCH TO ALL POST-TENSIONING TENDONS IN ALL OTHER ELEVATED SLABS.
13. HAIRPINS AT TENDON SWEEPS ARE SHOWN SCHEMATICALLY IN PLAN ONLY. CONTRACTOR SHALL PROVIDE HAIRPINS AT THE SPACING INDICATED IN DETAILS; SEE S4-3# SHEETS.

1 CONFERENCE CENTER L2 POST-TENSION PLAN

S-109PT

SCALE: 1/8" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
CONFERENCE CENTER L2 POST-TENSION REINFORCING PLAN

S-109PT

Sheet Number

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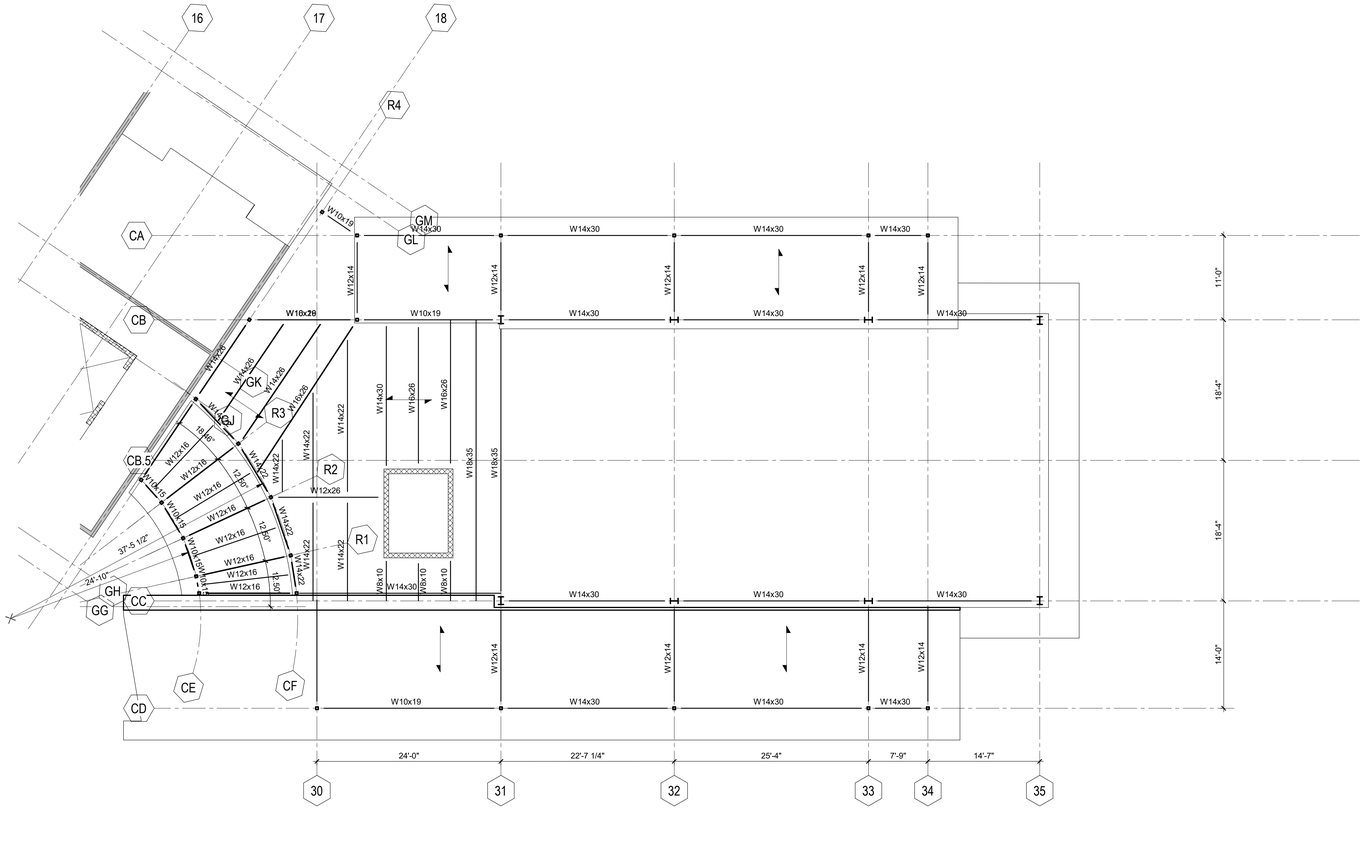
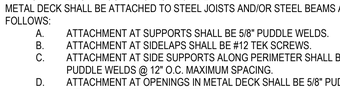


ROOF FRAMING NOTES:

1. DECK BEARING ELEVATION = SEE ARCHITECTURAL DRAWINGS.
2. THE ROOF FRAMING SHALL CONSIST OF A 1½" DEEP, TYPE "B", 22 GAGE GALVANIZED (G90) ASTM A653 (Fy = 33 ksi) METAL ROOF DECK SUPPORTED ON STEEL JOISTS AND STEEL BEAMS.
3. ◄———► DENOTES DIRECTION OF METAL DECK SPAN.
4. METAL DECK UNITS SHALL BE FABRICATED AND/OR FIELD CUT SUCH THAT A MINIMUM THREE SPAN CONDITION IS PROVIDED.
5. METAL DECK SHALL BE ATTACHED TO STEEL JOISTS AND/OR STEEL BEAMS AS FOLLOWS:
   - A. ATTACHMENT AT SUPPORTS SHALL BE 5/8" PUDDLE WELDS.
   - B. ATTACHMENT AT SIDELAPS SHALL BE #12 TEK SCREWS.
   - C. ATTACHMENT AT SIDE SUPPORTS ALONG PERIMETER SHALL BE 5/8" PUDDLE WELDS @ 12" O.C. MAXIMUM SPACING.
   - D. ATTACHMENT AT OPENINGS IN METAL DECK SHALL BE 5/8" PUDDLE WELDS @ 6" O.C. MAXIMUM SPACING.
   - E. MINIMUM END LAP DIMENSION = 0'-3"
   - F. METAL ROOF DECK FASTENING PATTERN SHALL BE AS FOLLOWS:
     - ZONE A: 36/7-6 SIDE LAPS PER SPAN
     - ZONE B: 36/4-4 SIDE LAPS PER SPAN



   DEVIATION FROM THE FASTENING PATTERN DESCRIBED HEREIN WILL NOT BE PERMITTED UNLESS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. WHERE NOTED IN PLAN, ALL DIMENSIONS ARE TO THE EDGE OF METAL DECK OR COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.
7. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL EDGE OF SLAB DRAWINGS.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ROOF OPENING LOCATIONS AND SIZES WITH THE M/E/P DRAWINGS. SEE DETAILS ON SHEETS S4-11 FOR ADDITIONAL INFORMATION.
9. UNLESS NOTED OTHERWISE, TOP OF STRUCTURAL STEEL SHALL BE (2½"), WHICH IS 0'-2½" BELOW DECK BEARING ELEVATION.
10. UNLESS NOTED OTHERWISE, JOIST BEARING ELEVATION SHALL BE (2½"), WHICH IS 0'-2½" BELOW DECK BEARING ELEVATION.
11. WHERE REQUIRED, BEAM CAMBER IS NOTED ON PLAN BY ' c=xx" '. REFER TO PROJECT SPECIFICATIONS FOR BEAM CAMBERING REQUIREMENTS.
12. LOADS SHOWN AT ENDS OF STEEL BEAMS DENOTED AS ' ##k ', OR AT MIDSPAN DENOTED AS ' R=##k ', INDICATE THE FACTORED ULTIMATE (LRFD) VERTICAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION(S). CONNECTIONS SHALL BE DESIGNED BY OTHERS (NOT SHOWN IN THESE DRAWINGS). ** WHERE END REACTIONS HAVE NOT BEEN NOTED AT THE END OF A STEEL BEAM, A MINIMUM END REACTION OF 12 KIPS SHALL BE USED FOR DESIGN OF THE BEAM END CONNECTION.
13. LOADS SHOWN AT MIDSPAN OF STEEL BEAMS DENOTED AS ' H=##k ' INDICATE FACTORED ULTIMATE (LRFD) HORIZONTAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
14. LOADS SHOWN AT MIDSPAN OF STEEL BEAMS DENOTED AS ' A=##k ' INDICATE FACTORED ULTIMATE (LRFD) AXIAL REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
15. LOADS SHOWN AT MIDSPAN OF STEEL BEAMS DENOTED AS ' M=##k ' INDICATE FACTORED ULTIMATE (LRFD) END MOMENT TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
16. JOIST SUPPLIER SHALL PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS. SEE GENERAL NOTES FOR ADD'L INFO.
17. ALL STEEL JOISTS SHALL BE DESIGNED FOR A UNIFORM NET WIND UPLIFT EQUAL TO 8 PSF.
18. ALL STEEL JOIST SEATS SHALL BE DESIGNED TO RESIST A ROLL-OVER FORCE EQUAL TO 2.3 KIPS, TYP.
19. GENERAL CONTRACTOR TO VERIFY LOCATION, QUANTITY, SIZE AND WEIGHT OF ROOFTOP MECHANICAL UNITS (RTU) TO BE SUPPORTED BY THE ROOF STRUCTURE PRIOR TO SHOP DRAWING REVIEW. MAXIMUM OPERATING WEIGHT SHALL NOT EXCEED THE WEIGHTS SPECIFIED IN STRUCTURAL GENERAL NOTES AND/OR ROOF FRAMING NOTES.
20. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES, DRAINS, CRICKET LOCATIONS AND/OR TAPERED ROOF INSULATION.
21. ▨ DENOTES PORTIONS OF THE ROOF REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. THESE AREAS HAVE DESIGNED FOR ALTERNATE ROOF LOADING EQUAL TO 50 PSF DEAD AND 32 PSF LIVE. GENERAL CONTRACTOR TO SUBMIT INFORMATION RELATED TO ROOFTOP MECHANICAL UNITS TO STRUCTURAL ENGINEER OF RECORD (EOR) PRIOR TO INSTALLATION.

1 CONFERENCE CENTER LOW ROOF FRAMING PLAN

S-110

SCALE: 1/8" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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CONFERENCE CENTER LOW ROOF FRAMING PLAN

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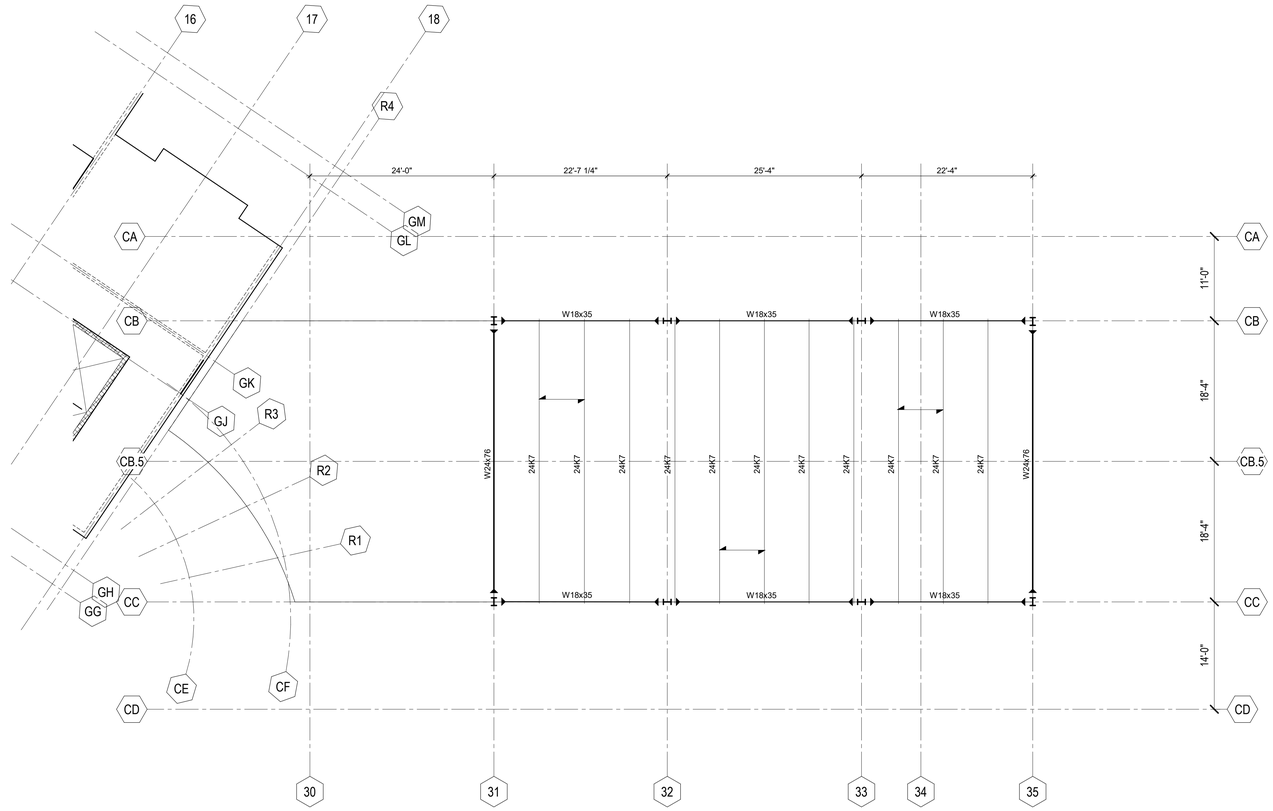

ROOF FRAMING NOTES:

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   - D. ATTACHMENT AT OPENINGS IN METAL DECK SHALL BE 5/8" PUDDLE WELDS @ 6" O.C. MAXIMUM SPACING.
   - E. MINIMUM END LAP DIMENSION = 0'-3"
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8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ROOF OPENING LOCATIONS AND SIZES WITH THE M/E/P DRAWINGS. SEE DETAILS ON SHEETS S4-11 FOR ADDITIONAL INFORMATION.
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17. ALL STEEL JOISTS SHALL BE DESIGNED FOR A UNIFORM NET WIND UPLIFT EQUAL TO 8 PSF.
18. ALL STEEL JOIST SEATS SHALL BE DESIGNED TO RESIST A ROLL-OVER FORCE EQUAL TO 2.3 KIPS, TYP.
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1 CONFERENCE CENTER HIGH ROOF FRAMING PLAN

S-111

SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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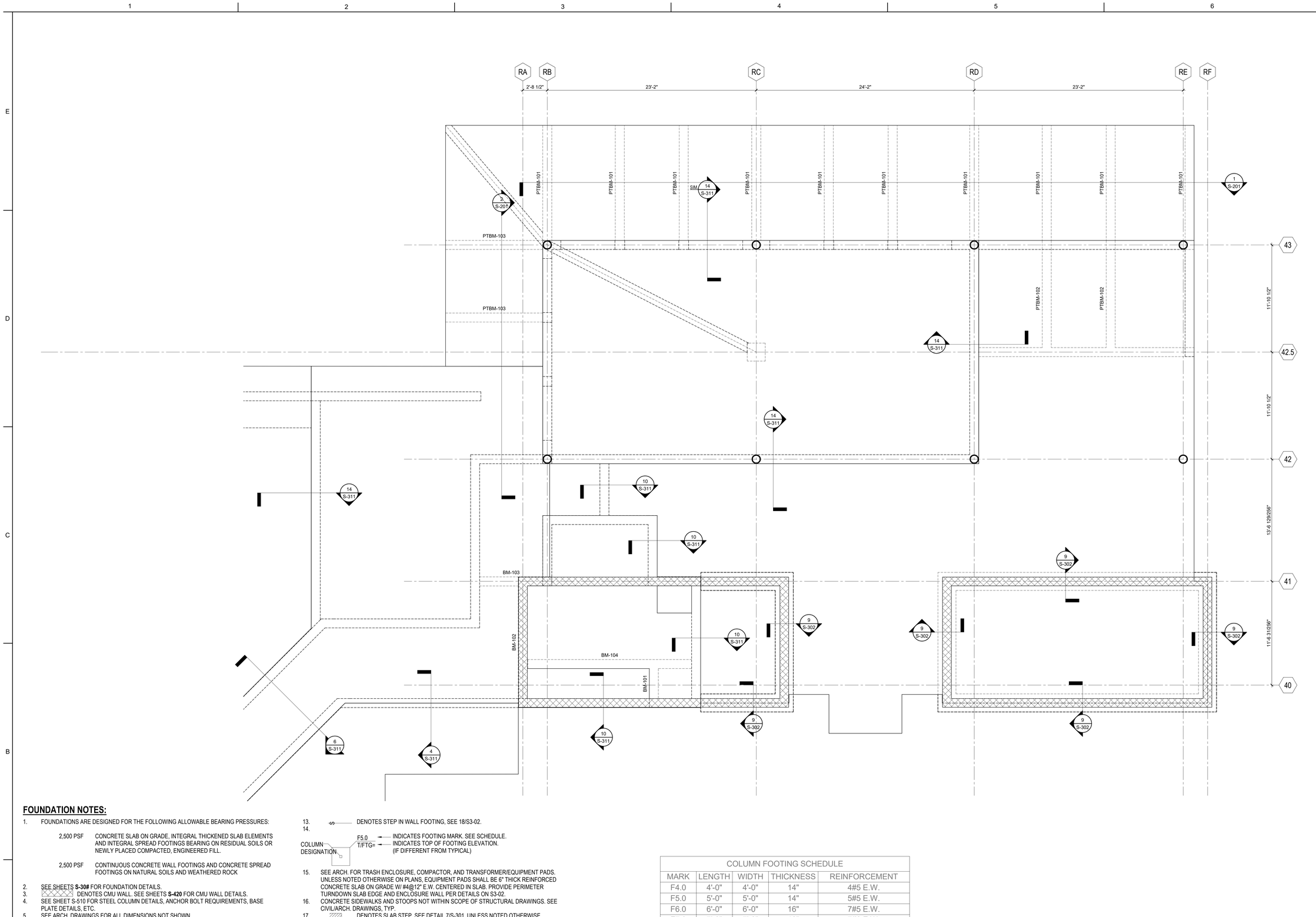

FOUNDATION NOTES:

1. FOUNDATIONS ARE DESIGNED FOR THE FOLLOWING ALLOWABLE BEARING PRESSURES:

   2,500 PSF — CONCRETE SLAB ON GRADE, INTEGRAL THICKENED SLAB ELEMENTS AND INTEGRAL SPREAD FOOTINGS BEARING ON RESIDUAL SOILS OR NEWLY PLACED COMPACTED, ENGINEERED FILL.

   2,500 PSF — CONTINUOUS CONCRETE WALL FOOTINGS AND CONCRETE SPREAD FOOTINGS ON NATURAL SOILS AND WEATHERED ROCK

2. SEE SHEETS **S-30#** FOR FOUNDATION DETAILS.
3. DENOTES CMU WALL. SEE SHEETS **S-420** FOR CMU WALL DETAILS.
4. SEE SHEET S-510 FOR STEEL COLUMN DETAILS, ANCHOR BOLT REQUIREMENTS, BASE PLATE DETAILS, ETC.
5. SEE ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
6. REFER TO PLANS FOR TOP OF SLAB DATUM ELEVATION.
7. SLAB ON GRADE AT LOBBIES, KITCHEN, RESTAURANT, FITNESS, MEETING, CORRIDORS, PUBLIC ASSEMBLY SHALL BE 5" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWR. SLAB ON GRADE AT GUEST ROOMS SHALL BE 4" CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWR.
8. WHERE SLAB ON GRADE MUST SLOPE TO DRAIN, CONTRACTOR TO THICKEN SLAB AS REQUIRED TO MAINTAIN 4" MINIMUM THICKNESS, TYP. SEE SHEETS S3-0# AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
9. C.J. INDICATES SLAB ON GRADE CONTROL JOINT OR CONSTRUCTION JOINT, SEE DETAIL 20/S-301.
10. PROVIDE ONE (1) LAYER OF 10 MIL VAPOR BARRIER UNDER THE SLAB ON GRADE, TYP. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. ALL FOOTINGS TO BE CENTERED UNDER WALLS, COLUMNS, BEAM BEARING, PIERS AND PILASTERS, UNLESS NOTED OTHERWISE.
12. ALL TOP OF FOOTING ELEVATIONS SHALL BE -(1' - 6") BELOW TOP OF SLAB ELEVATION, UNLESS NOTED OTHERWISE.
13. DENOTES STEP IN WALL FOOTING, SEE 18/S3-02.
14. COLUMN DESIGNATION — F5.0 INDICATES FOOTING MARK. SEE SCHEDULE. T/FTG= INDICATES TOP OF FOOTING ELEVATION. (IF DIFFERENT FROM TYPICAL)
15. SEE ARCH. FOR TRASH ENCLOSURE, COMPACTOR, AND TRANSFORMER/EQUIPMENT PADS. UNLESS NOTED OTHERWISE ON PLANS, EQUIPMENT PADS SHALL BE 6" THICK REINFORCED CONCRETE SLAB ON GRADE W/ #4@12" E.W. CENTERED IN SLAB. PROVIDE PERIMETER TURNDOWN SLAB EDGE AND ENCLOSURE WALL PER DETAILS ON S3-02.
16. CONCRETE SIDEWALKS AND STOOPS NOT WITHIN SCOPE OF STRUCTURAL DRAWINGS. SEE CIVIL/ARCH. DRAWINGS, TYP.
17. DENOTES SLAB STEP. SEE DETAIL 7/S-301, UNLESS NOTED OTHERWISE.
18. WHERE SPREAD FOOTINGS THAT SUPPORT STEEL COLUMNS HAVE A TOP OF FOOTING ELEVATION MORE THAN 2' - 0" BELOW F.F.E., PROVIDE CONCRETE PEDESTAL PER DETAIL X/S3-0X.
19. DENOTES 5" THICK CONCRETE SLAB ON GRADE AT PARKING DECK ENTRANCE W/ 6x6-W2.9xW2.9.
20. DENOTES 7" THICK CONCRETE SLAB ON GRADE AT LOADING DOCK. REINFORCE SLAB W/ #4@12" EACH WAY AT MID-DEPTH OF SLAB, TYP.

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F4.0	4'-0"	4'-0"	14"	4#5 E.W.
F5.0	5'-0"	5'-0"	14"	5#5 E.W.
F6.0	6'-0"	6'-0"	16"	7#5 E.W.
F7.0	7'-0"	7'-0"	18"	7#6 E.W.
F8.0	8'-0"	8'-0"	20"	8#6 E.W.
F9.0	9'-0"	9'-0"	22"	8#7 E.W.

1 RESTAURANT L2 FOUNDATION AND FLOOR PLAN

S-112 SCALE: 1/4" = 1'-0"

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SOUTH CAROLINA ELLINWOOD MACHADO, LLC No. 4388 CERTIFICATE OF AUTHORIZATION

FEB 19, 2020
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 28826 RAFAEL I. MACHADO

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HOTEL HARTNESS

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Sheet Title
RESTAURANT FLOOR AND FOUNDATION PLAN

S-112
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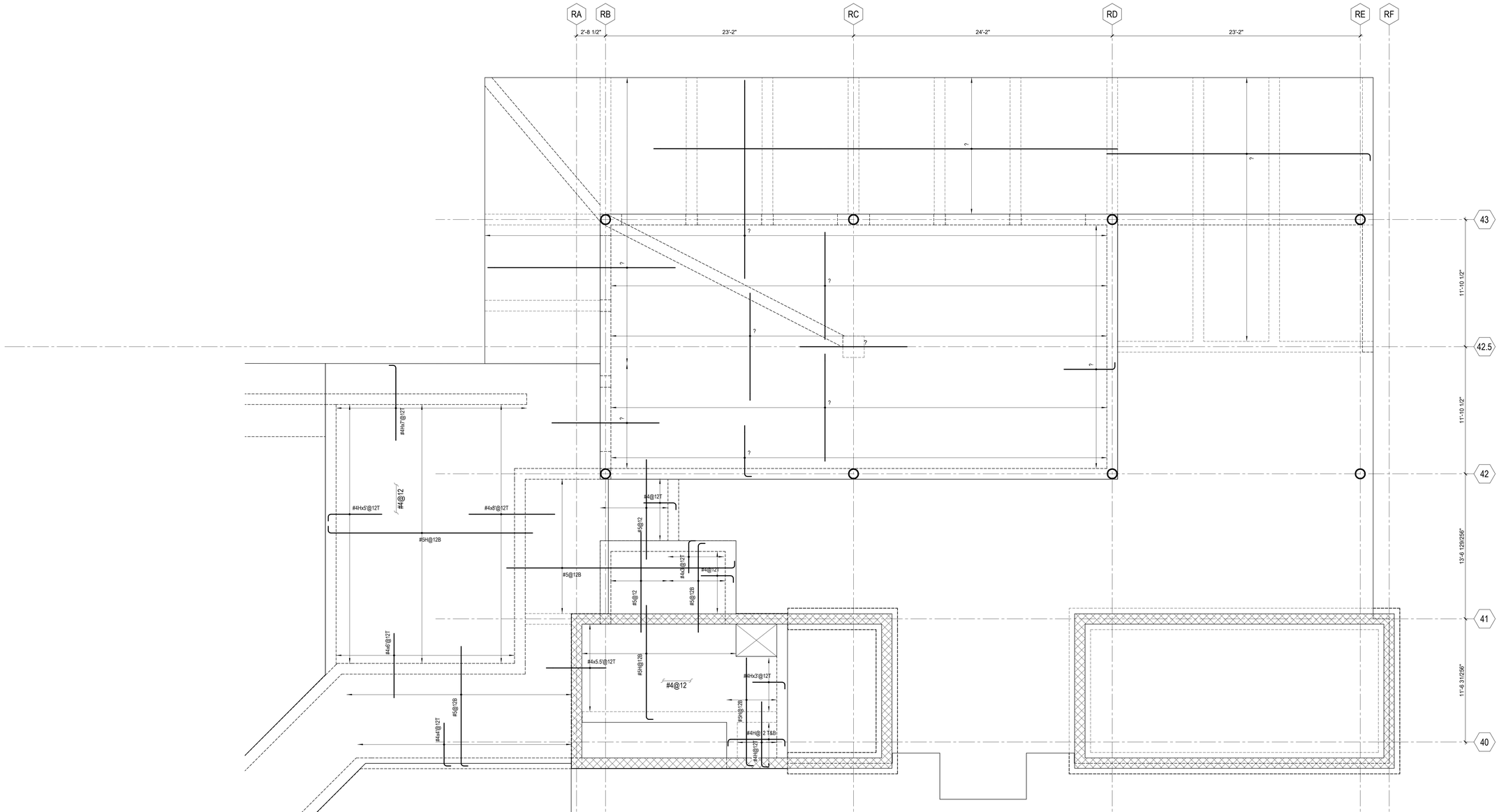

MILD REINFORCING FRAMING NOTES:

1. CONCRETE SLAB WITH DROP PANELS, f'c=5000 PSI (TOTAL SLAB THICKNESS AT PANELS = SLAB THICKNESS + DROP PANEL THICKNESS). SEE FRAMING PLAN FOR SLAB THICKNESS AND DROP PANEL THICKNESS.
2. FINISHED FLOOR ELEVATION = SEE ARCH. COORDINATE SPOT ELEVATIONS, SLOPES AND DRAINS WITH ARCHITECTURAL DRAWINGS.
3. ALL DIMENSIONS ARE TO THE EDGE OF SLAB (EOS) OR CENTERLINE OF COL. (CL. COL) UNLESS NOTED OTHERWISE.
4. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL E.O.S. DRAWINGS.
5. PLACE CORNER BARS AT ALL CORNERS, OPENINGS, & PENETRATIONS. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AROUND SLAB OPENINGS AND PENETRATIONS.
6. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL COORDINATE ALL SLAB OPENINGS, SIZES, AND LOCATIONS WITH THE M.E.P. DRAWINGS. SEE TYPICAL DETAILS ON SHEET S4-31 FOR REINFORCEMENT.
7. REBAR SUPPLIER SHALL PROVIDE 90° HOOK, A 180° END HOOK MAY BE SUBSTITUTED WHEN NECESSARY FOR EASE OF CONSTRUCTION.
8. T/S INDICATES TEMPERATURE & SHRINKAGE STEEL REQ'D FOR ONE-WAY SLAB. SEE TYPICAL TEMPERATURE & SHRINKAGE SCHEDULE DETAIL 1/S4-30.
9. DENOTES DIRECTION OF ONE-WAY SLAB SPAN.
10. PROVIDE AN ADDITIONAL (1)-#5 T&B AT ALL PERIMETER SLAB EDGES (2'-6" LAP). WHERE PERIMETER BEAMS EXISTS THESE BARS CAN BE OMITTED.
11. DENOTES BEAM CAGE REQUIRED BETWEEN COLUMNS PER TYPICAL DETAIL.
12. PROVIDE MINIMUM BOTTOM COVER OF 1-INCH TO ALL SLAB BOTTOM REINFORCEMENT IN THE PODIUM SLAB DUE TO 3 HOUR FIRE RATING SEPARATION REQUIREMENTS. PROVIDE MINIMUM BOTTOM COVER OF 3/4-INCH TO ALL SLAB BOTTOM REINFORCEMENT IN OTHER ELEVATED SLAB LOCATIONS.
13. ADDITIONAL BOTTOM BARS INDICATED IN PLAN SHALL BE LOCATED MIDWAY BETWEEN COLUMNS U.N.O.
14. PROVIDE CONTINUOUS BOTTOM MAT REINFORCEMENT IN PODIUM SLAB AS INDICATED. ALL BOTTOM MAT REINFORCEMENT SHALL BE INSTALLED "CONTINUOUS" WITH CLASS "B" TENSION LAP SPLICES IN ACCORDANCE WITH GENERAL NOTE 4.P ON S0-01.
15. PROVIDE #4@24" O.C. EACH WAY IN BOTTOM OF ALL DROP PANELS.

REBAR LABELING LEGEND:

(4) 5 T 12 H
- 90° HOOK (WHERE SHOWN)
- BAR LENGTH (FT)
- BAR LOCATION (TOP, BOTTOM, OR MID-DEPTH)
- BAR SIZE
- TOTAL NUMBER OF BARS

5 T 12 H @12
- SPACING OF BARS
- 90° HOOK (WHERE SHOWN)
- BAR LENGTH (FT)
- BAR LOCATION (TOP, BOTTOM, OR MID-DEPTH)
- BAR SIZE

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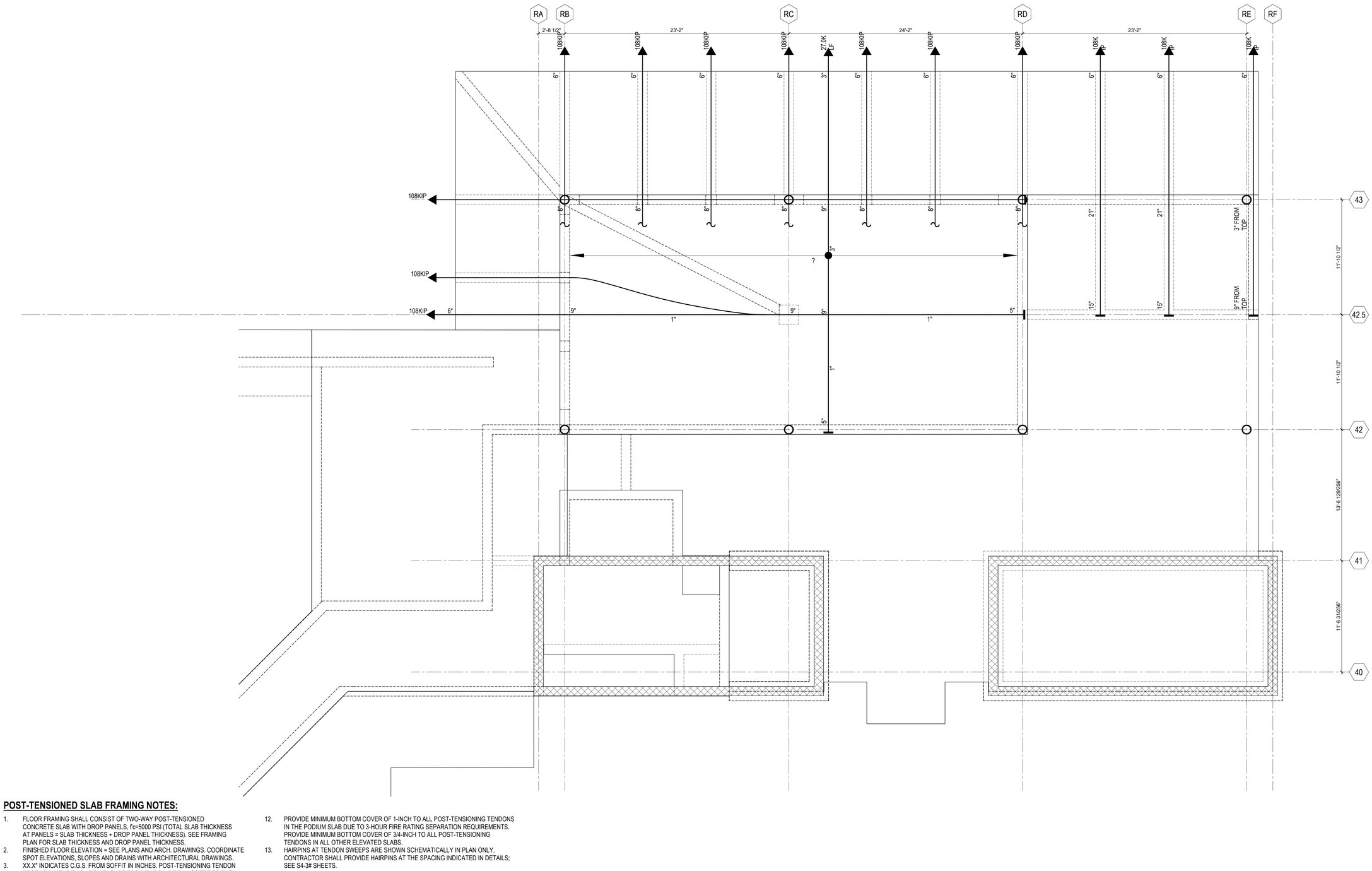

POST-TENSIONED SLAB FRAMING NOTES:

1. FLOOR FRAMING SHALL CONSIST OF TWO-WAY POST-TENSIONED CONCRETE SLAB WITH DROP PANELS, f'c=5000 PSI (TOTAL SLAB THICKNESS AT PANELS = SLAB THICKNESS + DROP PANEL THICKNESS). SEE FRAMING PLAN FOR SLAB THICKNESS AND DROP PANEL THICKNESS.
2. FINISHED FLOOR ELEVATION = SEE PLANS AND ARCH. DRAWINGS. COORDINATE SPOT ELEVATIONS, SLOPES AND DRAINS WITH ARCHITECTURAL DRAWINGS.
3. XX.X" INDICATES C.G.S. FROM SOFFIT IN INCHES. POST-TENSIONING TENDON PROFILE DIMENSIONS ARE MEASURE FROM THE SLAB/BEAM SOFFIT TO THE CENTER OF THE TENDON.
4. UNIFORM TENDON SUPPORT BARS SHALL BE #4 MINIMUM, PLACED AT 4'-0" MAX AND CONTINUOUS WITH 2'-0" LAP.
5. POST-TENSIONING FORCES SHOWN ON THE PLANS ARE FINAL EFFECTIVE FORCES. THE SUPPLIER SHALL INCREASE THE TENDON FORCES AS REQUIRED TO ACCOUNT FOR LOSSES.
6. PROVIDE PLASTIC, PLASTIC COATED, OR STAINLESS STEEL TIE WIRE AND PLASTIC COATED SUPPORT CHAIRS IN EXPOSED BALCONIES AND TERRACES.
7. WHEN 6 OR MORE TENDONS ARE ADDED, DEAD ENDS OF TENDONS SHALL BE STAGGERED.
8. THE POST-TENSIONING SUPPLIER SHALL PROVIDE BURSTING STEEL AT THE ANCHORAGES AND THE TIE REINFORCEMENT AS REQUIRED TO RESIST THE HORIZONTAL COMPONENT OF CURVED TENDONS; SEE TYPICAL DETAILS.
9. ALL DIMENSIONS ARE TO THE EDGE OF SLAB (EOS) OR CENTERLINE OF COL. (CL. COL) U.N.O.
10. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL E.O.S. DRAWINGS.
11. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL COORDINATE ALL SLAB OPENINGS, SIZES, AND LOCATIONS WITH THE M.E.P. DRAWINGS. SEE TYPICAL DETAILS ON SHEET S4-31 FOR REINFORCEMENT.
12. PROVIDE MINIMUM BOTTOM COVER OF 1-INCH TO ALL POST-TENSIONING TENDONS IN THE PODIUM SLAB DUE TO 3-HOUR FIRE RATING SEPARATION REQUIREMENTS. PROVIDE MINIMUM BOTTOM COVER OF 3/4-INCH TO ALL POST-TENSIONING TENDONS IN ALL OTHER ELEVATED SLABS.
13. HAIRPINS AT TENDON SWEEPS ARE SHOWN SCHEMATICALLY IN PLAN ONLY. CONTRACTOR SHALL PROVIDE HAIRPINS AT THE SPACING INDICATED IN DETAILS; SEE S4-3# SHEETS.

1 RESTAURANT L2 POST-TENSION REINFORCEMENT PLAN

S-112PT

SCALE: 1/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
RESTAURANT POST-TENSION REINFORCING PLAN

S-112PT
Sheet Number

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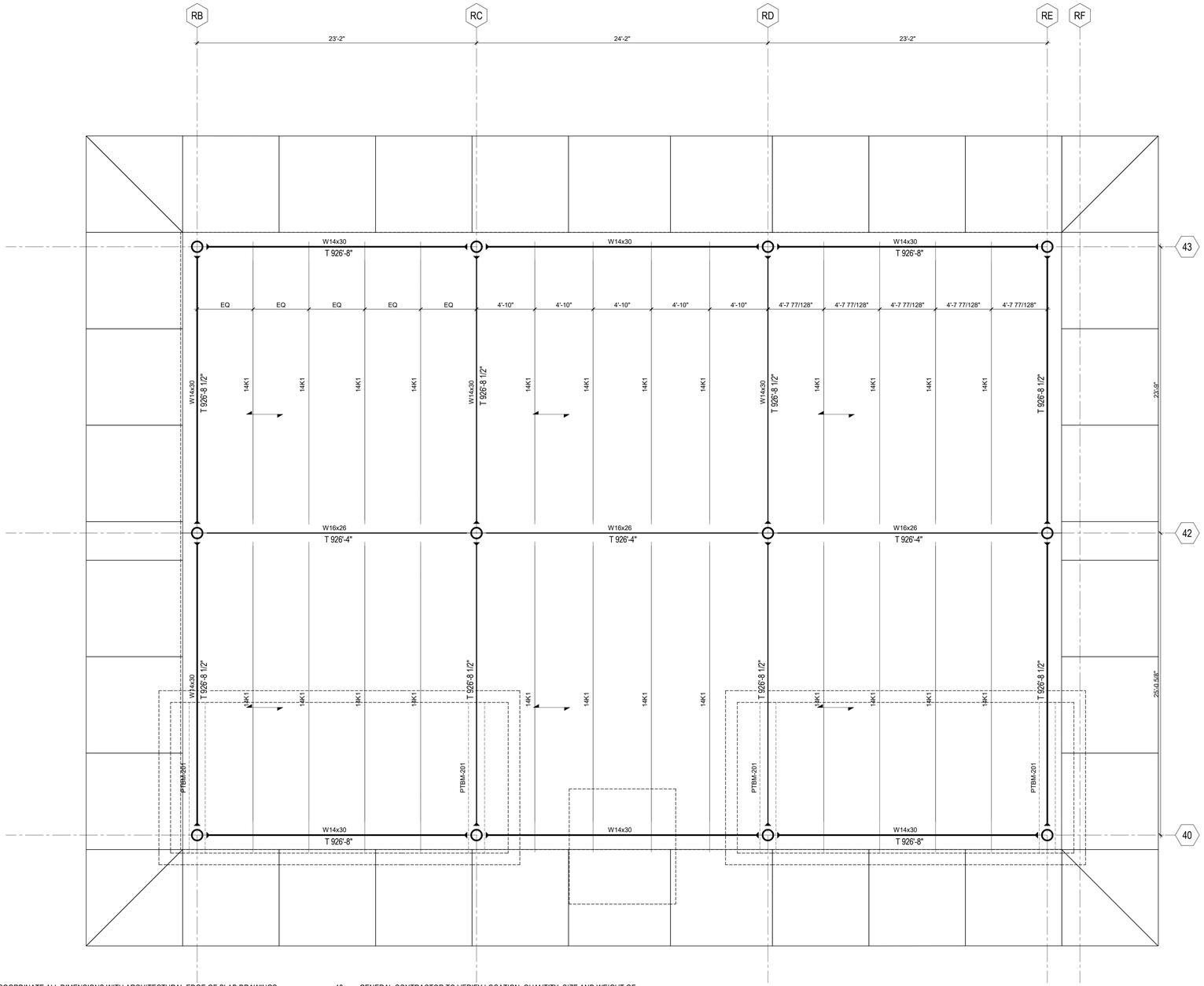
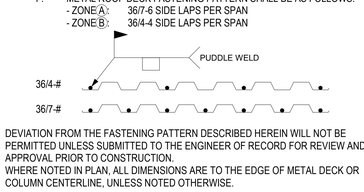


ROOF FRAMING NOTES:

1. DECK BEARING ELEVATION = SEE ARCHITECTURAL DRAWINGS.
2. THE ROOF FRAMING SHALL CONSIST OF A 1½" DEEP, TYPE "B", 22 GAGE GALVANIZED (G90) ASTM A653 (Fy = 33 ksi) METAL ROOF DECK SUPPORTED ON STEEL JOISTS AND STEEL BEAMS.
3. ←→ DENOTES DIRECTION OF METAL DECK SPAN.
4. METAL DECK UNITS SHALL BE FABRICATED AND/OR FIELD CUT SUCH THAT A MINIMUM THREE SPAN CONDITION IS PROVIDED.
5. METAL DECK SHALL BE ATTACHED TO STEEL JOISTS AND/OR STEEL BEAMS AS FOLLOWS:
   - A. ATTACHMENT AT SUPPORTS SHALL BE 5/8" PUDDLE WELDS.
   - B. ATTACHMENT AT SIDELAPS SHALL BE #12 TEK SCREWS.
   - C. ATTACHMENT AT SIDE SUPPORTS ALONG PERIMETER SHALL BE 5/8" PUDDLE WELDS @ 12" O.C. MAXIMUM SPACING.
   - D. ATTACHMENT AT OPENINGS IN METAL DECK SHALL BE 5/8" PUDDLE WELDS @ 6" O.C. MAXIMUM SPACING.
   - E. MINIMUM END LAP DIMENSION = 0'-3"
   - F. METAL ROOF DECK FASTENING PATTERN SHALL BE AS FOLLOWS:
     - ZONE A: 36/7-6 SIDE LAPS PER SPAN
     - ZONE B: 36/4-4 SIDE LAPS PER SPAN



   DEVIATION FROM THE FASTENING PATTERN DESCRIBED HEREIN WILL NOT BE PERMITTED UNLESS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. WHERE NOTED IN PLAN, ALL DIMENSIONS ARE TO THE EDGE OF METAL DECK OR COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.
7. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL EDGE OF SLAB DRAWINGS.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ROOF OPENING LOCATIONS AND SIZES WITH THE M/E/P DRAWINGS. SEE DETAILS ON SHEETS S4-11 FOR ADDITIONAL INFORMATION.
9. UNLESS NOTED OTHERWISE, TOP OF STRUCTURAL STEEL SHALL BE (2½"), WHICH IS 0'-2½" BELOW DECK BEARING ELEVATION.
10. UNLESS NOTED OTHERWISE, JOIST BEARING ELEVATION SHALL BE (2½"), WHICH IS 0'-2½" BELOW DECK BEARING ELEVATION.
11. WHERE REQUIRED, BEAM CAMBER IS NOTED ON PLAN BY ' c=xx" '. REFER TO PROJECT SPECIFICATIONS FOR BEAM CAMBERING REQUIREMENTS.
12. LOADS SHOWN AT ENDS OF STEEL BEAMS DENOTED AS ' ##k ', OR AT MIDSPAN DENOTED AS ' R=##k ', INDICATE THE FACTORED ULTIMATE (LRFD) VERTICAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION(S). CONNECTIONS SHALL BE DESIGNED BY OTHERS (NOT SHOWN IN THESE DRAWINGS). ** WHERE END REACTIONS HAVE NOT BEEN NOTED AT THE END OF A STEEL BEAM, A MINIMUM END REACTION OF 12 KIPS SHALL BE USED FOR DESIGN OF THE BEAM END CONNECTION.
13. LOADS SHOWN AT MIDSPAN OF STEEL BEAMS DENOTED AS ' H=##k ' INDICATE FACTORED ULTIMATE (LRFD) HORIZONTAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
14. LOADS SHOWN AT MIDSPAN OF STEEL BEAMS DENOTED AS ' A=##k ' INDICATE FACTORED ULTIMATE (LRFD) AXIAL REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
15. LOADS SHOWN AT MIDSPAN OF STEEL BEAMS DENOTED AS ' M=##k ' INDICATE FACTORED ULTIMATE (LRFD) END MOMENT TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
16. JOIST SUPPLIER SHALL PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS. SEE GENERAL NOTES FOR ADD'L INFO.
17. ALL STEEL JOISTS SHALL BE DESIGNED FOR A UNIFORM NET WIND UPLIFT EQUAL TO 8 PSF.
18. ALL STEEL JOIST SEATS SHALL BE DESIGNED TO RESIST A ROLL-OVER FORCE EQUAL TO 2.3 KIPS, TYP.
19. GENERAL CONTRACTOR TO VERIFY LOCATION, QUANTITY, SIZE AND WEIGHT OF ROOFTOP MECHANICAL UNITS (RTU) TO BE SUPPORTED BY THE ROOF STRUCTURE PRIOR TO SHOP DRAWING REVIEW. MAXIMUM OPERATING WEIGHT SHALL NOT EXCEED THE WEIGHTS SPECIFIED IN STRUCTURAL GENERAL NOTES AND/OR ROOF FRAMING NOTES.
20. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES, DRAINS, CRICKET LOCATIONS AND/OR TAPERED ROOF INSULATION.
21. DENOTES PORTIONS OF THE ROOF REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. THESE AREAS HAVE DESIGNED FOR ALTERNATE ROOF LOADING EQUAL TO 50 PSF DEAD AND 32 PSF LIVE. GENERAL CONTRACTOR TO SUBMIT INFORMATION RELATED TO ROOFTOP MECHANICAL UNITS TO STRUCTURAL ENGINEER OF RECORD (EOR) PRIOR TO INSTALLATION.

1 RESTAURANT ROOF PLAN

S-113

SCALE: 1/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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RESTAURANT ROOF FRAMING PLAN

S-113
Sheet Number

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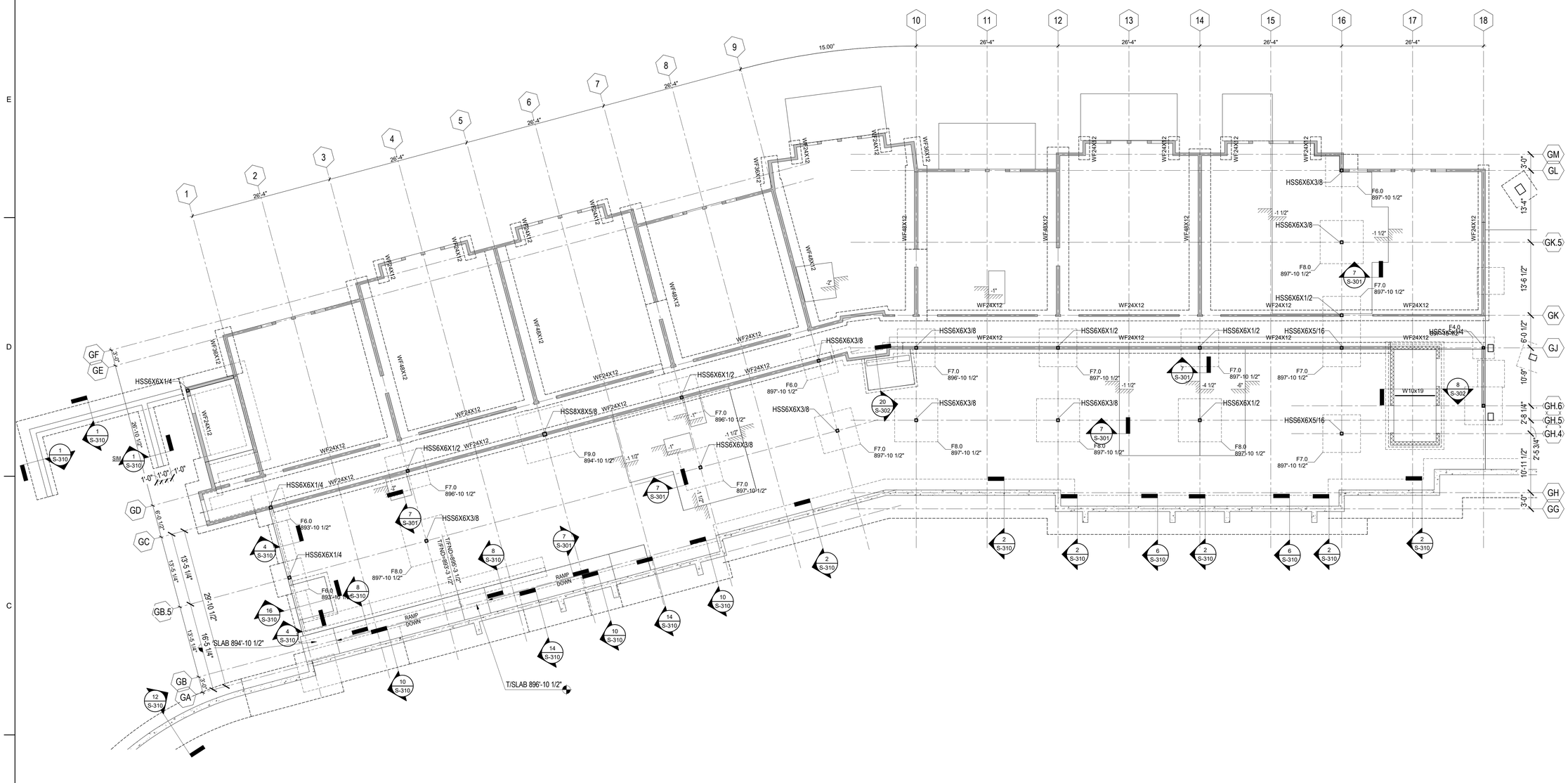

1 HOTEL L1 FOUNDATION PLAN

S-114

SCALE: 1/8" = 1'-0"

FOUNDATION NOTES:

1. FOUNDATIONS ARE DESIGNED FOR THE FOLLOWING ALLOWABLE BEARING PRESSURES:

   2,500 PSF — CONCRETE SLAB ON GRADE, INTEGRAL THICKENED SLAB ELEMENTS AND INTEGRAL SPREAD FOOTINGS BEARING ON RESIDUAL SOILS OR NEWLY PLACED COMPACTED, ENGINEERED FILL.

   2,500 PSF — CONTINUOUS CONCRETE WALL FOOTINGS AND CONCRETE SPREAD FOOTINGS ON NATURAL SOILS AND WEATHERED ROCK

2. SEE SHEETS **S-30#** FOR FOUNDATION DETAILS.
3. DENOTES CMU WALL. SEE SHEETS **S-420** FOR CMU WALL DETAILS.
4. SEE SHEET S-510 FOR STEEL COLUMN DETAILS, ANCHOR BOLT REQUIREMENTS, BASE PLATE DETAILS, ETC.
5. SEE ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
6. REFER TO PLANS FOR TOP OF SLAB DATUM ELEVATION.
7. SLAB ON GRADE AT LOBBIES, KITCHEN, RESTAURANT, FITNESS, MEETING, CORRIDORS, PUBLIC ASSEMBLY SHALL BE 5" CONCRETE SLAB REINFORCED WITH 6x6-W2.9xW2.9 WWR. SLAB ON GRADE AT GUEST ROOMS SHALL BE 4" CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWR.
8. WHERE SLAB ON GRADE MUST SLOPE TO DRAIN, CONTRACTOR TO THICKEN SLAB AS REQUIRED TO MAINTAIN 4" MINIMUM THICKNESS, TYP. SEE SHEETS S3-0# AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
9. C.J. INDICATES SLAB ON GRADE CONTROL JOINT OR CONSTRUCTION JOINT, SEE DETAIL 20/S-301.
10. PROVIDE ONE (1) LAYER OF 10 MIL VAPOR BARRIER UNDER THE SLAB ON GRADE, TYP. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. ALL FOOTINGS TO BE CENTERED UNDER WALLS, COLUMNS, BEAM BEARING, PIERS AND PILASTERS, UNLESS NOTED OTHERWISE.
12. ALL TOP OF FOOTING ELEVATIONS SHALL BE -(1' - 6") BELOW TOP OF SLAB ELEVATION, UNLESS NOTED OTHERWISE.
13. DENOTES STEP IN WALL FOOTING, SEE 18/S3-02.
14. COLUMN DESIGNATION — F5.0 — INDICATES FOOTING MARK. SEE SCHEDULE. T/FTG= — INDICATES TOP OF FOOTING ELEVATION. (IF DIFFERENT FROM TYPICAL)
15. SEE ARCH. FOR TRASH ENCLOSURE, COMPACTOR, AND TRANSFORMER/EQUIPMENT PADS. UNLESS NOTED OTHERWISE ON PLANS, EQUIPMENT PADS SHALL BE 6" THICK REINFORCED CONCRETE SLAB ON GRADE W/ #4@12" E.W. CENTERED IN SLAB. PROVIDE PERIMETER TURNDOWN SLAB EDGE AND ENCLOSURE WALL PER DETAILS ON S3-02.
16. CONCRETE SIDEWALKS AND STOOPS NOT WITHIN SCOPE OF STRUCTURAL DRAWINGS. SEE CIVIL/ARCH. DRAWINGS, TYP.
17. DENOTES SLAB STEP. SEE DETAIL 7/S-301, UNLESS NOTED OTHERWISE.
18. WHERE SPREAD FOOTINGS THAT SUPPORT STEEL COLUMNS HAVE A TOP OF FOOTING ELEVATION MORE THAN 2' - 0" BELOW F.F.E., PROVIDE CONCRETE PEDESTAL PER DETAIL X/S3-0X.
19. DENOTES 5" THICK CONCRETE SLAB ON GRADE AT PARKING DECK ENTRANCE W/ 6x6-W2.9xW2.9.
20. DENOTES 7" THICK CONCRETE SLAB ON GRADE AT LOADING DOCK. REINFORCE SLAB W/ #4@12" EACH WAY AT MID-DEPTH OF SLAB, TYP.

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
F4.0	4'-0"	4'-0"	14"	4#5 E.W.
F5.0	5'-0"	5'-0"	14"	5#5 E.W.
F6.0	6'-0"	6'-0"	16"	7#5 E.W.
F7.0	7'-0"	7'-0"	18"	7#6 E.W.
F8.0	8'-0"	8'-0"	20"	8#6 E.W.
F9.0	9'-0"	9'-0"	22"	8#7 E.W.

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCEMENT
WF24X12	2'-0"	12"	3#4 LW, #5@14 SW
WF36X12	3'-0"	12"	4#4 LW, #5@14 SW
WF48X12	4'-0"	12"	4#5 LW, #5@14 SW

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HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HOTEL L1 FOUNDATION PLAN

S-114

Sheet Number

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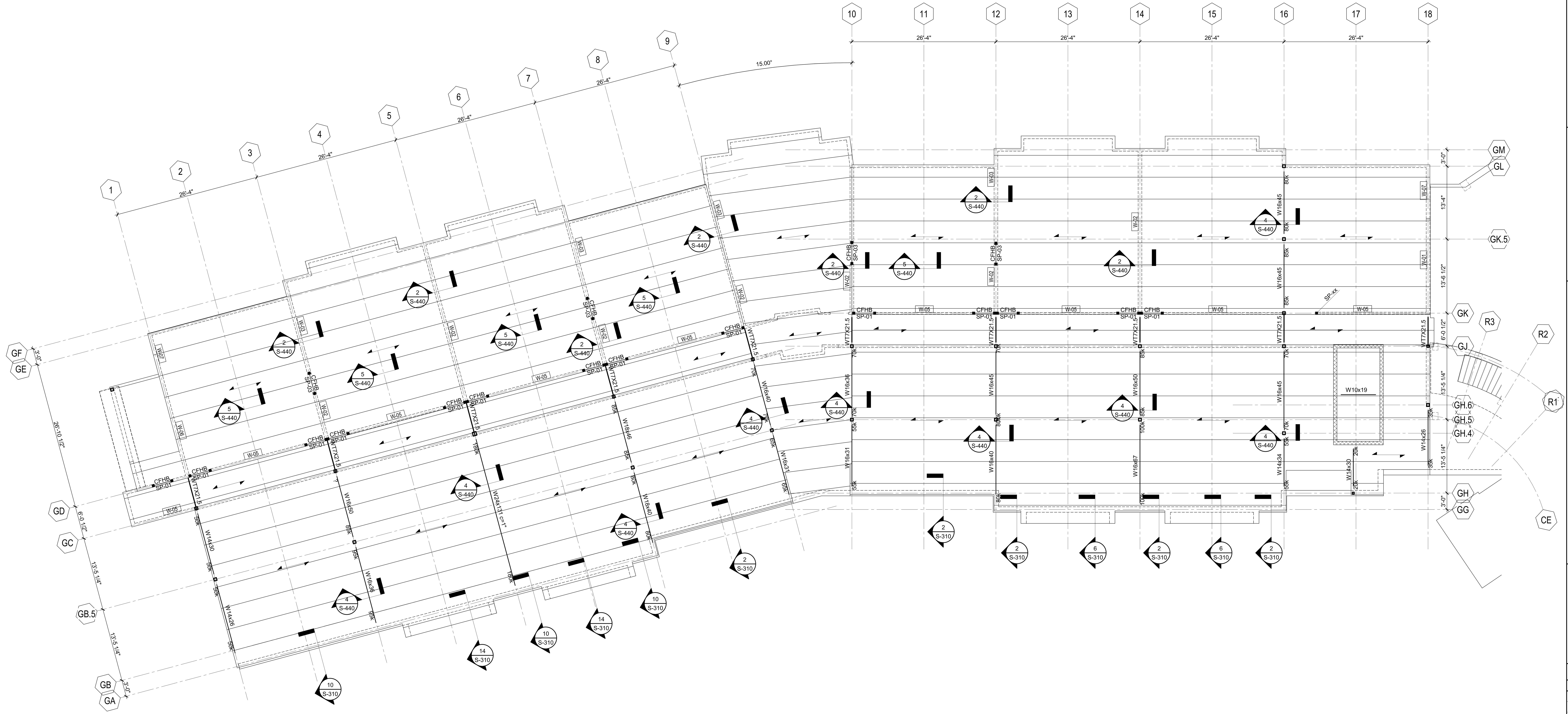

PRECAST FLOOR FRAMING NOTES:

1. FINISHED FLOOR ELEVATION = SEE ARCHITECTURAL DRAWINGS.
2. TYPICAL FLOOR FRAMING SHALL CONSIST OF 8" THICK HOLLOW CORE PLANKS WITH 2" THICK CONCRETE TOPPING.
3. (arrow symbol) DENOTES DIRECTION OF HOLLOW CORE PLANK SPAN.
4. (wall symbol) AND W-### DENOTES LOAD-BEARING METAL STUD WALL BELOW. STUD WALLS SHALL BE DESIGNED BY SPECIALTY ENGINEER FOR THE LOADS SHOWN IN THE WALL SCHEDULE ON SHEET S-470.
5. HOLLOW CORE PLANK SHALL BE ATTACHED TO LIGHT GAGE METAL STUD BEARING WALLS AS FOLLOWS:
   - A. FIELD WELD TOP TRACK TO EMBED PLATE AT HOLLOW CORE PLANK
   - B. GROUT JOINT AS SHOWN ON DETAILS AND PROVIDE ANY REQUIRED REINFORCEMENT BY MANUFACTURER
   - C. AT PERIMETER, ATTACH BEARING WALL CLIP TO EMBED PLATE ON HOLLOW CORE PLANK AS SHOWN BY SPECIALTY ENGINEER.

   DEVIATION FROM THE ATTACHMENT METHOD DESCRIBED HEREIN WILL NOT BE ALLOWED UNLESS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. WHERE NOTED IN PLAN, ALL DIMENSIONS ARE TO THE EDGE OF SLAB OR COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.
7. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL EDGE OF SLAB (EOS) DRAWINGS.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SLAB OPENING LOCATIONS AND SIZES WITH THE M/E/P DRAWINGS. SEE DETAILS ON SHEETS S-47# FOR ADDITIONAL INFORMATION.
9. "H##" INDICATES A HEADER BEAM, WHICH SHALL BE A BUILT-UP SECTION OF LIGHT-GAGE METAL STUD MEMBERS THAT SPANS BETWEEN THE ENDS OF THE ADJACENT METAL STUD WALL PANELS AND IS SUPPORTED AT EACH END BY A STUD PACK OR HSS. SEE DETAIL 13/S-472 FOR ADDITIONAL INFORMATION.
10. "SP##" INDICATES A METAL STUD PACK. SEE SHEET S-470 FOR THE STUD PACK SCHEDULE.
11. "SC##" INDICATES A STEEL COLUMN. SEE SHEET S-510 FOR THE STEEL COLUMN SCHEDULE.
12. FOR ALL "H##" HEADER BEAM TO HSS COLUMN CONNECTIONS, SEE DETAIL 15/S-471
13. UNLESS NOTED OTHERWISE IN PLAN, TOP OF STRUCTURAL STEEL SHALL BE THE BOTTOM OF THE HOLLOW CORE PLANK
14.. WHERE REQUIRED, SHEAR STUDS ARE NOTED IN PLAN BY ' (xx) ', WHERE xx DENOTES THE NUMBER OF 3/4"∅ HEADED STUDS (A108, Fu=65 ksi). SHEAR STUD LENGTH SHALL BE 0'-1" LESS THAN THE TOTAL PLANK AT THE BEAM LOCATION, TYP.
   - WHERE THE NUMBER OF STUDS IS NOTED ADJACENT TO THE BEAM SIZE, SHEAR STUDS SHALL BE DISTRIBUTED WITH EQUAL SPACING ALONG THE FULL LENGTH OF THE BEAM.
   - WHERE STUDS ARE NOTED AT DISCRETE POINTS ALONG THE SPAN OF THE BEAM, STUDS SHALL BE UNIFORMLY DISTRIBUTED BETWEEN ADJACENT INTERSECTING BEAMS AND/OR SUPPORTS.
15. WHERE REQUIRED, BEAM CAMBER IS NOTED ON PLAN BY ' c=xx" '. REFER TO PROJECT SPECIFICATIONS FOR BEAM CAMBERING REQUIREMENTS.
16. LOADS SHOWN AT ENDS OF STEEL BEAMS DENOTED AS ' R=##k ' INDICATE FACTORED ULTIMATE (LRFD) VERTICAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
17. LOADS SHOWN AT THE ENDS OF STEEL BEAMS DENOTED AS ' H=##k ' INDICATE FACTORED ULTIMATE (LRFD) HORIZONTAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.

1 HOTEL L2 FRAMING PLAN

S-115 SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

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HOTEL L2 FRAMING PLAN

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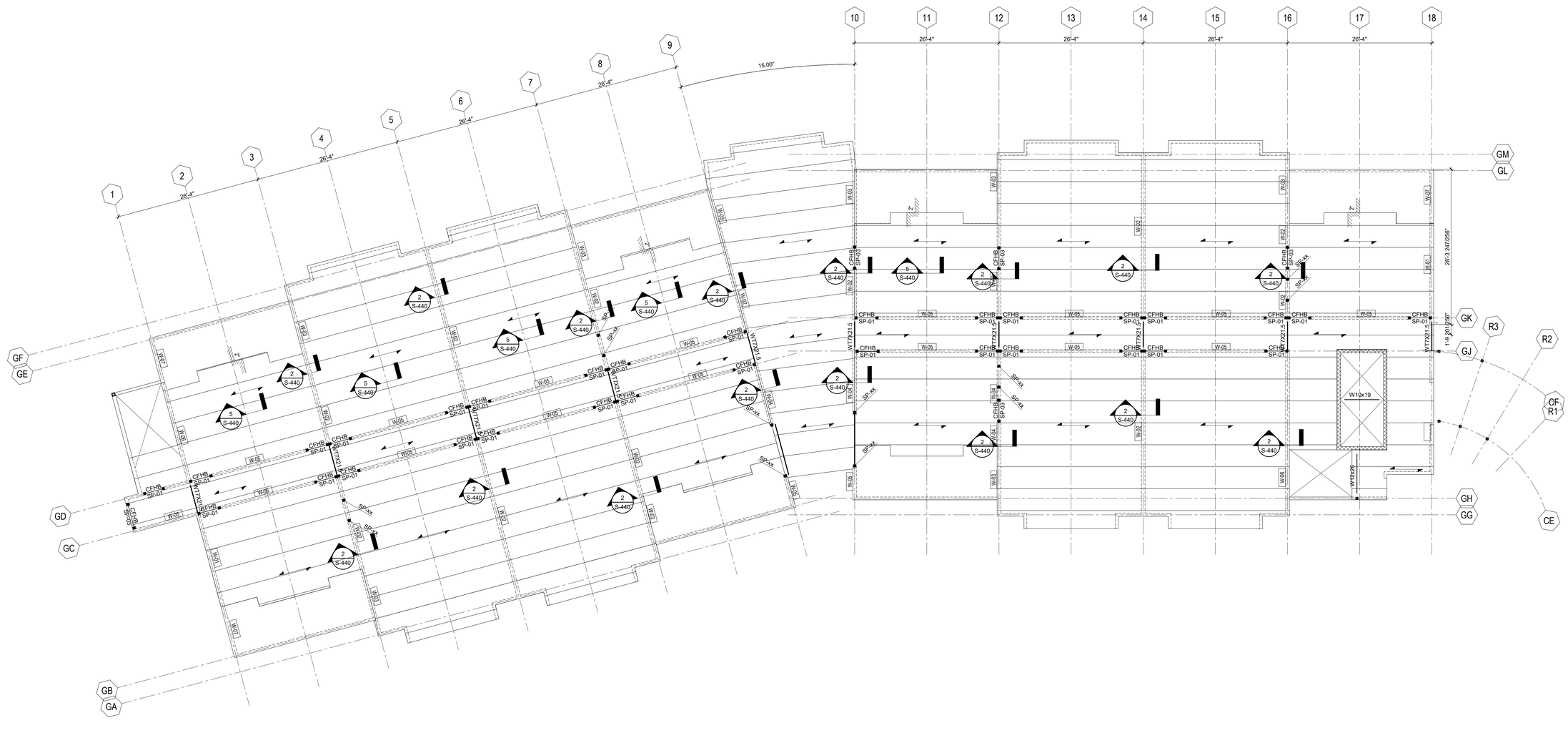

PRECAST FLOOR FRAMING NOTES:

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2. TYPICAL FLOOR FRAMING SHALL CONSIST OF 8" THICK HOLLOW CORE PLANKS WITH 2" THICK CONCRETE TOPPING.
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4. AND W-### DENOTES LOAD-BEARING METAL STUD WALL BELOW. STUD WALLS SHALL BE DESIGNED BY SPECIALTY ENGINEER FOR THE LOADS SHOWN IN THE WALL SCHEDULE ON SHEET S-470.
5. HOLLOW CORE PLANK SHALL BE ATTACHED TO LIGHT GAGE METAL STUD BEARING WALLS AS FOLLOWS:
   - A. FIELD WELD TOP TRACK TO EMBED PLATE AT HOLLOW CORE PLANK
   - B. GROUT JOINT AS SHOWN ON DETAILS AND PROVIDE ANY REQUIRED REINFORCEMENT BY MANUFACTURER
   - C. AT PERIMETER, ATTACH BEARING WALL CLIP TO EMBED PLATE ON HOLLOW CORE PLANK AS SHOWN BY SPECIALTY ENGINEER.

   DEVIATION FROM THE ATTACHMENT METHOD DESCRIBED HEREIN WILL NOT BE ALLOWED UNLESS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. WHERE NOTED IN PLAN, ALL DIMENSIONS ARE TO THE EDGE OF SLAB OR COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.
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9. "H##" INDICATES A HEADER BEAM, WHICH SHALL BE A BUILT-UP SECTION OF LIGHT-GAGE METAL STUD MEMBERS THAT SPANS BETWEEN THE ENDS OF THE ADJACENT METAL STUD WALL PANELS AND IS SUPPORTED AT EACH END BY A STUD PACK OR HSS. SEE DETAIL 13/S-472 FOR ADDITIONAL INFORMATION.
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17. LOADS SHOWN AT THE ENDS OF STEEL BEAMS DENOTED AS ' H=##k ' INDICATE FACTORED ULTIMATE (LRFD) HORIZONTAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.

1 HOTEL L3 FRAMING PLAN

S-116

SCALE: 1/8" = 1'-0"

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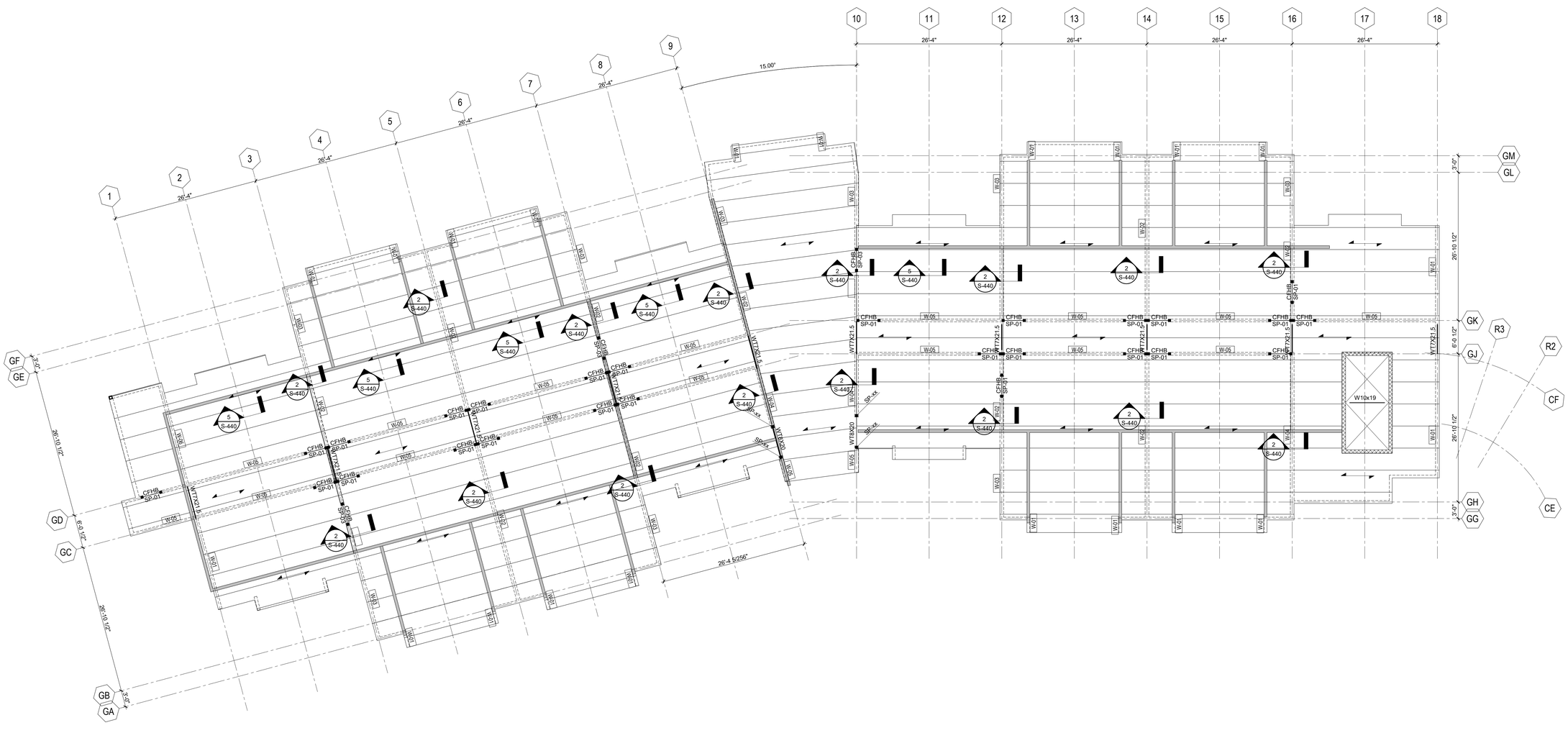

PRECAST FLOOR FRAMING NOTES:

1. FINISHED FLOOR ELEVATION = SEE ARCHITECTURAL DRAWINGS.
2. TYPICAL FLOOR FRAMING SHALL CONSIST OF 8" THICK HOLLOW CORE PLANKS WITH 2" THICK CONCRETE TOPPING.
3. DENOTES DIRECTION OF HOLLOW CORE PLANK SPAN.
4. AND W-### DENOTES LOAD-BEARING METAL STUD WALL BELOW. STUD WALLS SHALL BE DESIGNED BY SPECIALTY ENGINEER FOR THE LOADS SHOWN IN THE WALL SCHEDULE ON SHEET S-470.
5. HOLLOW CORE PLANK SHALL BE ATTACHED TO LIGHT GAGE METAL STUD BEARING WALLS AS FOLLOWS:
   - A. FIELD WELD TOP TRACK TO EMBED PLATE AT HOLLOW CORE PLANK
   - B. GROUT JOINT AS SHOWN ON DETAILS AND PROVIDE ANY REQUIRED REINFORCEMENT BY MANUFACTURER
   - C. AT PERIMETER, ATTACH BEARING WALL CLIP TO EMBED PLATE ON HOLLOW CORE PLANK AS SHOWN BY SPECIALTY ENGINEER.

   DEVIATION FROM THE ATTACHMENT METHOD DESCRIBED HEREIN WILL NOT BE ALLOWED UNLESS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. WHERE NOTED IN PLAN, ALL DIMENSIONS ARE TO THE EDGE OF SLAB OR COLUMN CENTERLINE, UNLESS NOTED OTHERWISE.
7. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL EDGE OF SLAB (EOS) DRAWINGS.
8. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SLAB OPENING LOCATIONS AND SIZES WITH THE M/E/P DRAWINGS. SEE DETAILS ON SHEETS S-47# FOR ADDITIONAL INFORMATION.
9. "H##" INDICATES A HEADER BEAM, WHICH SHALL BE A BUILT-UP SECTION OF LIGHT-GAGE METAL STUD MEMBERS THAT SPANS BETWEEN THE ENDS OF THE ADJACENT METAL STUD WALL PANELS AND IS SUPPORTED AT EACH END BY A STUD PACK OR HSS. SEE DETAIL 13/S-472 FOR ADDITIONAL INFORMATION.
10. "SP##" INDICATES A METAL STUD PACK. SEE SHEET S-470 FOR THE STUD PACK SCHEDULE.
11. "SC##" INDICATES A STEEL COLUMN. SEE SHEET S-510 FOR THE STEEL COLUMN SCHEDULE.
12. FOR ALL "H##" HEADER BEAM TO HSS COLUMN CONNECTIONS, SEE DETAIL 15/S-471
13. UNLESS NOTED OTHERWISE IN PLAN, TOP OF STRUCTURAL STEEL SHALL BE THE BOTTOM OF THE HOLLOW CORE PLANK
14.. WHERE REQUIRED, SHEAR STUDS ARE NOTED IN PLAN BY ' (xx) ', WHERE xx DENOTES THE NUMBER OF 3/4"∅ HEADED STUDS (A108, Fu=65 ksi). SHEAR STUD LENGTH SHALL BE 0'-1" LESS THAN THE TOTAL PLANK AT THE BEAM LOCATION, TYP.
   - WHERE THE NUMBER OF STUDS IS NOTED ADJACENT TO THE BEAM SIZE, SHEAR STUDS SHALL BE DISTRIBUTED WITH EQUAL SPACING ALONG THE FULL LENGTH OF THE BEAM.
   - WHERE STUDS ARE NOTED AT DISCRETE POINTS ALONG THE SPAN OF THE BEAM, STUDS SHALL BE UNIFORMLY DISTRIBUTED BETWEEN ADJACENT INTERSECTING BEAMS AND/OR SUPPORTS.
15. WHERE REQUIRED, BEAM CAMBER IS NOTED ON PLAN BY ' c=xx" '. REFER TO PROJECT SPECIFICATIONS FOR BEAM CAMBERING REQUIREMENTS.
16. LOADS SHOWN AT ENDS OF STEEL BEAMS DENOTED AS ' R=##k ' INDICATE FACTORED ULTIMATE (LRFD) VERTICAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.
17. LOADS SHOWN AT THE ENDS OF STEEL BEAMS DENOTED AS ' H=##k ' INDICATE FACTORED ULTIMATE (LRFD) HORIZONTAL SHEAR REACTION TO BE USED FOR THE DESIGN OF THE BEAM END CONNECTION.

1 HOTEL L4 FRAMING PLAN

S-117

SCALE: 1/8" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
HOTEL L4 FRAMING PLAN

S-117

Sheet Number

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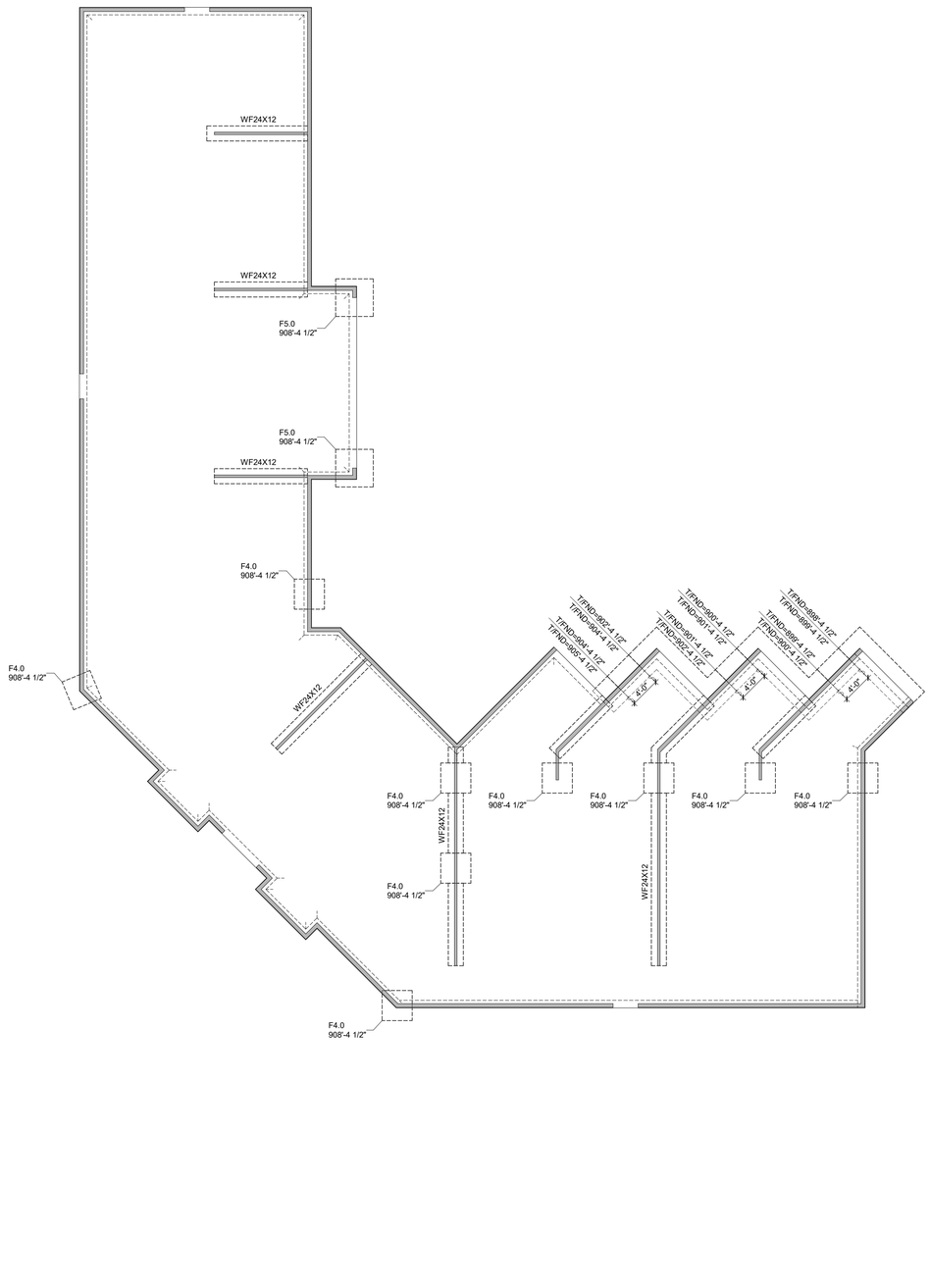

1 SPA FLOOR AND FOUNDATION PLAN

S-120

SCALE: 1/8" = 1'-0"

FOUNDATION NOTES:

1. FOUNDATIONS ARE DESIGNED FOR THE FOLLOWING ALLOWABLE BEARING PRESSURES:

   2,500 PSF — CONCRETE SLAB ON GRADE, INTEGRAL THICKENED SLAB ELEMENTS AND INTEGRAL SPREAD FOOTINGS BEARING ON RESIDUAL SOILS OR NEWLY PLACED COMPACTED, ENGINEERED FILL.

2. SEE SHEETS **S3-0#** FOR FOUNDATION DETAILS.
3. SEE ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
4. REFER TO PLANS FOR TOP OF SLAB DATUM ELEVATION.
5. TYPICAL SLAB ON GRADE SHALL BE 4" CONCRETE SLAB W/ 6x6-W2.1xW2.1 WWR.
6. WHERE SLAB ON GRADE MUST SLOPE TO DRAIN, CONTRACTOR TO THICKEN SLAB AS REQUIRED TO MAINTAIN 4" MINIMUM THICKNESS, TYP. SEE SHEETS S3-0# AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
7. C.J. — INDICATES SLAB ON GRADE CONTROL JOINT OR CONSTRUCTION JOINT, SEE DETAIL 20/S3-01.
8. PROVIDE ONE (1) LAYER OF 10 MIL VAPOR BARRIER UNDER THE SLAB ON GRADE, TYP. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. ALL FOOTINGS TO BE CENTERED UNDER WALLS, COLUMNS, BEAM BEARING, PIERS AND PILASTERS, UNLESS NOTED OTHERWISE.
10. ALL TOP OF FOOTING ELEVATIONS SHALL BE -(1' - 6") BELOW TOP OF SLAB ELEVATION, UNLESS NOTED OTHERWISE.
11. ALL SPREAD FOOTINGS SUPPORTING WOOD COLUMNS SHALL BE POURED MONOLITHICALLY WITH THE SLAB ON GRADE. SEE DETAILS X/S3-0X AN X/S3-0X FOR ADDITIONAL INFORMATION.
12. DENOTES STEP IN WALL FOOTING, SEE 18/S3-02.
13. C## — INDICATES COLUMN DESIGNATION. SEE FOUNDATION PLANS AND COLUMN SCHEDULE.
    F5.0 — INDICATES FOOTING MARK. SEE SCHEDULE.
    T/FTG= — INDICATES TOP OF FOOTING ELEVATION.
14. CONCRETE SIDEWALKS AND STOOPS NOT WITHIN SCOPE OF STRUCTURAL DRAWINGS. SEE CIVIL/ARCH. DRAWINGS, TYP.
15. DENOTES SLAB STEP. SEE DETAIL X/S3-0X, UNLESS NOTED OTHERWISE.
16. PROVIDE SIMPSON "PB" TYPE COLUMN BASES AT ALL FREE-STANDING ENGINEERED LUMBER COLUMNS. "FREE-STANDING" COLUMNS AND/OR STUD PACKS SHALL BE DEFINED AS THOSE COLUMNS/STUD PACKS THAT ARE NOT WITHIN THE PLAN OF A STUD WALL.
17. SEE TYPICAL DETAIL 14/S6-00C FOR THICKENED AREAS AT SHEAR WALL ENDS FOR ANCHOR EMBEDMENT.
18. IN SOME LOCATIONS, IT WILL BE NECESSARY TO INSTALL EMBED PLATES IN THE CONCRETE SLAB ON GRADE AT SHEAR WALL ANCHORAGE LOCATIONS. IF THE CONTRACTOR INTENDS TO USE A THREADED ROD SYSTEM FOR THE SHEAR WALL ANCHORAGE, SPECIFIC COORDINATION WILL BE REQUIRED TO DETERMINE LOCATIONS WHERE EMBED PLATES ARE REQUIRED PER THE STRUCTURAL ANCHORAGE DETAILS ON THE S6-00# SHEETS. IT IS RECOMMENDED THAT THE THREADED ROD SYSTEM SHOP DRAWINGS BE SUBMITTED AT A TIME WHERE THESE EMBED PLATES CAN BE COORDINATED WITH THE SLAB ON GRADE CONSTRUCTION.

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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Sheet Title
SPA FLOOR AND FOUNDATION PLAN

S-120
Sheet Number

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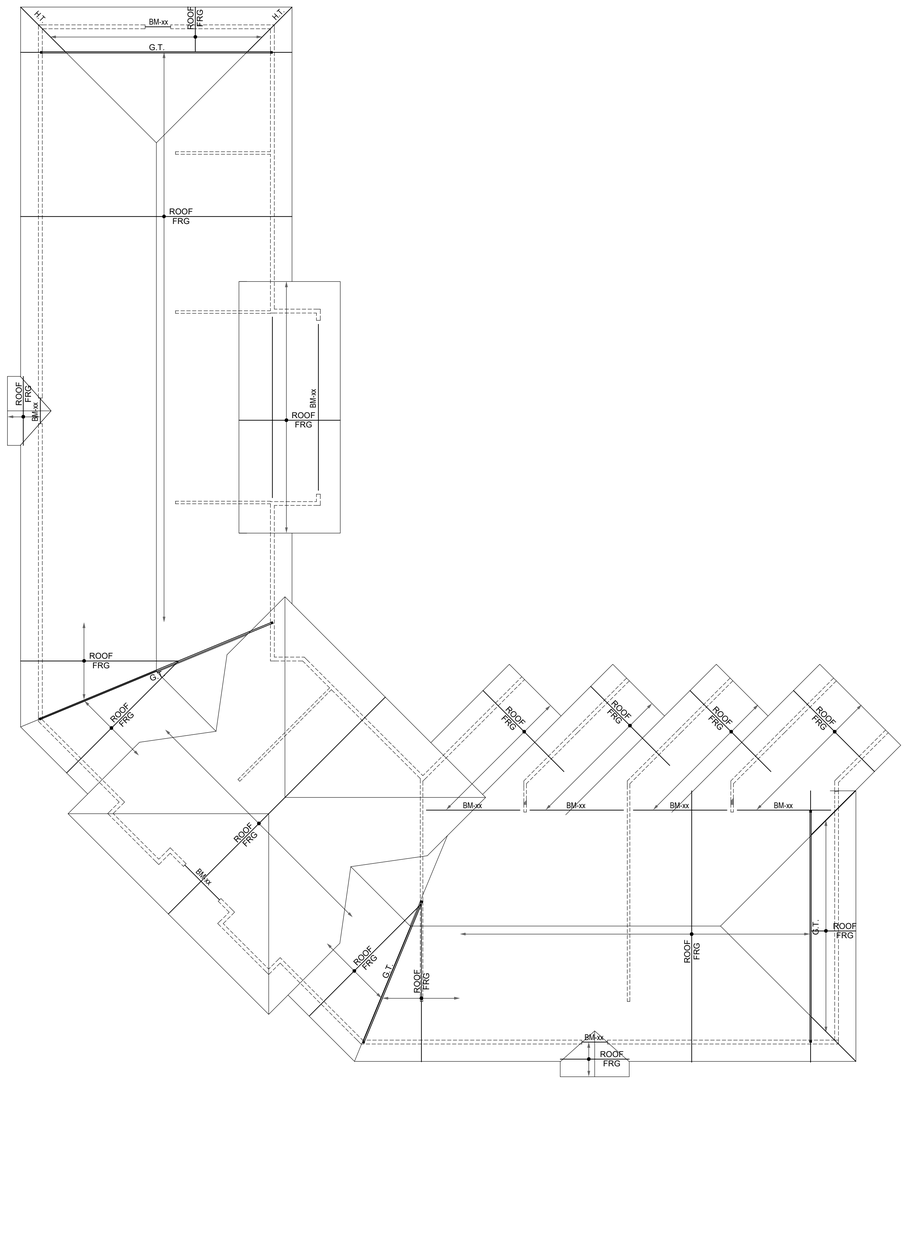

ROOF FRAMING PLAN NOTES:

1. SEE S4-9# SERIES FOR ROOF FRAMING SECTIONS AND DETAILS.
2. ROOF / FRG — DENOTES PRE-ENGINEERED OPEN WEB ROOF TRUSSES @ 24" O.C. DEPTH OF ROOF TRUSSES TO BE A MINIMUM OF 24", TYP. TRUSS DEPTH VARIES WITH SLOPE OF ROOF (TOP CHORD TO SLOPE AS REQ'D TO ACHIEVE ROOF SLOPES). SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. "G1" DENOTES A GIRDER TRUSS, TYP.
4. "H1" DENOTES A HIP TRUSS, TYP.
5. "DBL" DENOTES A DOUBLE TRUSS, TYP.
6. "FB" DENOTES A FLUSH BEAM, TYP.
7. ALL ROOF TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER, WHICH SHALL INCLUDE ALL TRUSS-TO-TRUSS CONNECTIONS. SEE GENERAL NOTES ON SHEET S0-01 FOR ADDITIONAL INFORMATION.
8. TRUSS MANUFACTURER SHALL DESIGN ALL ROOF TRUSS COMPONENTS FOR THE NET UPLIFT WIND PRESSURE RESULTING FROM THE WIND PRESSURES SHOWN IN DETAIL 6/S0-02, TYP. ADDITIONALLY TRUSS MANUFACTURER SHALL DESIGN ROOF TRUSSES FOR POINT LOADS APPLIED VIA ROOF KICKERS 0 SEE ROOF FRAMING PLANS AND DETAILS FOR ADD'L INFORMATION.
9. PORTIONS OF THE ROOF SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR AN ALTERNATE ROOF LIVE LOAD EQUAL TO 40 PSF. TRUSS DESIGNER/ MANUFACTURER TO COORDINATE WITH MECHANICAL DWGS.
10. ALIGN ROOF TRUSSES WITH OR PROVIDE ADDITIONAL ROOF TRUSSES ABOVE ALL TOP FLOOR SHEAR WALLS. SEE S6-## SERIES (BRACING PLANS) FOR SHEAR WALL LOCATIONS, TYP.
11. ALL ROOF TRUSSES TO BE MECHANICALLY FASTENED AT ALL BEARING POINTS AND STUD FRAMING BELOW ACCORDING TO ROOF ANCHORAGE AND TIE-DOWN NOTES - SEE DETAIL 20/S4-02.
12. PROVIDE TIE-DOWN ANCHORS FOR ALL GIRDER TRUSSES (GT) AND DOUBLE TRUSSES (DBL) ACCORDING TO ROOF ANCHORAGE AND TIE-DOWN NOTES - SEE DETAIL 20/S4-02.
13. PROVIDE POSTS/STUDPACKS BELOW ENDS OF ALL GIRDER TRUSSES (GT) AND DOUBLE TRUSSES (DBL) CONTINUOUS TO FOUNDATION, ACCORDING TO THE FOLLOWING CRITERIA:
    A. FOR GT/DBL SPANS ≤ 20'-0", PROVIDE 2-2x4
    B. FOR GT/DBL SPANS ≤ 35'-0", PROVIDE 4-2x4
    C. FOR GT/DBL SPANS ≤ 50'-0", PROVIDE 5-2x4
14. PROVIDE POSTS/STUDPACKS BELOW ENDS OF ALL 2x DIMENSION LUMBER BEAMS CONTINUOUS TO FOUNDATION, ACCORDING TO THE FOLLOWING CRITERIA:
    A. FOR 2-208 & 2-210, PROVIDE 2-2x4
    B. FOR 2-212 & 2-210, PROVIDE 3-2x4
    C. FOR 2-212 LVL, PROVIDE 4-2x4
    D. FOR 2-214 LVL & 216 LVL, PROVIDE 5-2x4
15. INDICATES ROOFTOP CONDENSERS, REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. TRUSS DESIGNER SHALL DESIGN ROOF TRUSSES FOR A ROOF LIVE LOAD OF 75 PSF IN THESE AREAS.

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SPA ROOF PLAN

S-121

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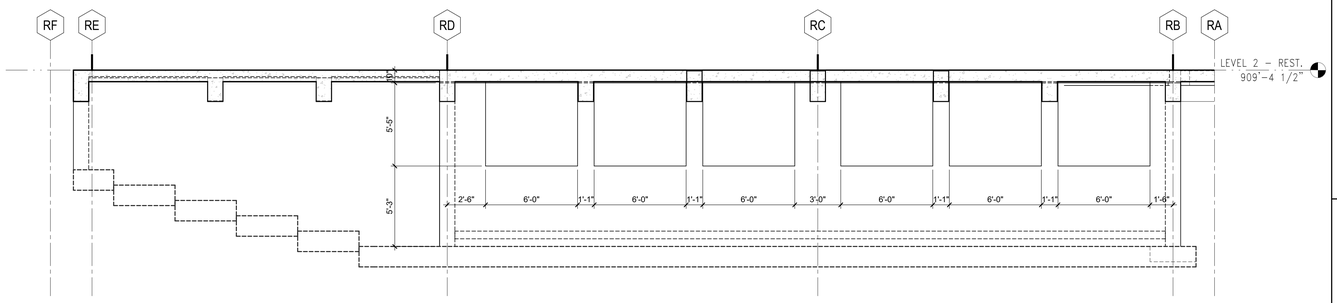
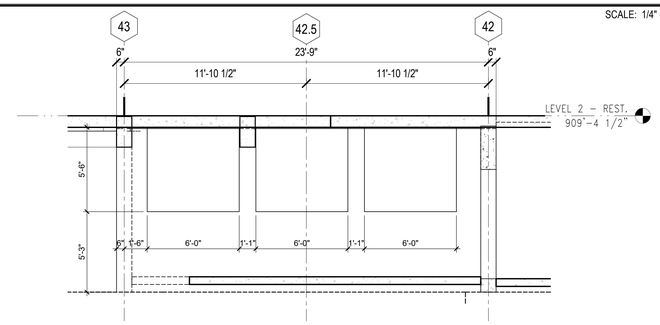


1 WALL ELEVATION 1

S-201

SCALE: 1/4" = 1'-0"



2 WALL ELEVATION 2

S-201

SCALE: 1/4" = 1'-0"

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Sheet Title
WALL ELEVATIONS

S-201

Sheet Number

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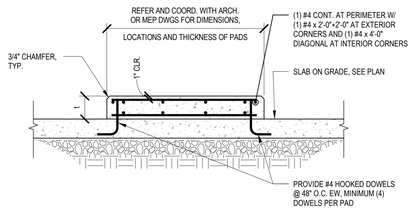
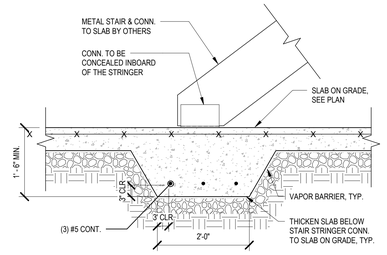


HOUSEKEEPING PAD REINFORCING SCHEDULE		
THICKNESS (t)	TOP	BOTTOM
t ≤ 4"	6"x6" - W2.9xW2.9	-
4" < t < 8"	4"x4" - W5.5xW5.5	-
8" ≤ t ≤ 16"	#4 @ 12" EW	#4 @ 12" EW

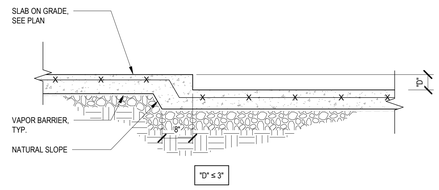
13 HOUSEKEEPING PAD ON SLAB-ON-GRADE

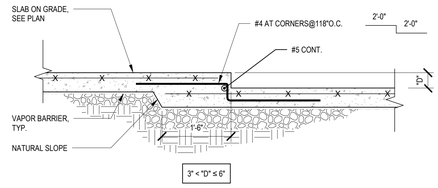
S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

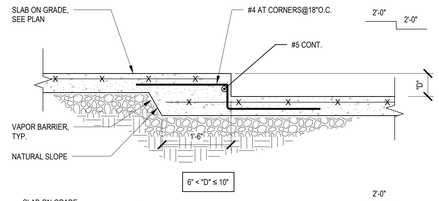


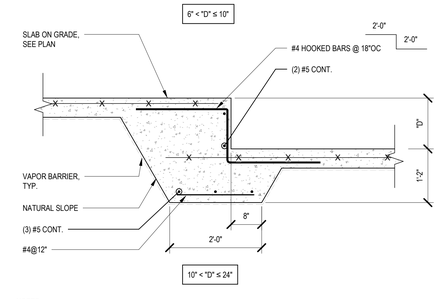
9 THICKENED SLAB AT STAIR DETAIL

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"





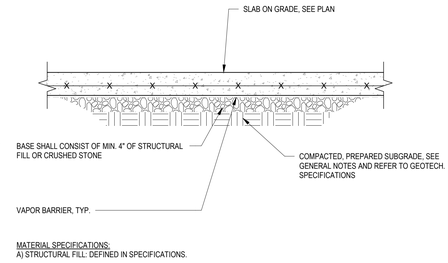




NOTES:
1. REINFORCEMENT SHOWN IN THIS DETAIL DOES NOT APPLY TO POST-TENSIONED SLABS ON GRADE. ALL PT AND MILD REINFORCEMENT IN POST-TENSIONED SLABS ON GRADE SHALL BE SPECIFIED BY A SPECIALTY ENGINEER.
2. SEE PLAN FOR LOCATION OF STEPS/DEPRESSIONS, SLAB ON GRADE THICKNESS, AND REQUIRED REINFORCEMENT.
3. COORDINATE DEPTHS AND LOCATIONS OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
4. PROVIDE (1) #4 DIAGONAL TOP BAR AT CORNERS OF ALL DEPRESSIONS, TYP.

7 DEPRESSIONS IN SLAB-ON-GRADE

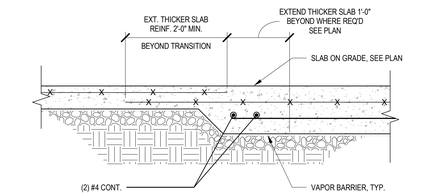
S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



MATERIAL SPECIFICATIONS:
A) STRUCTURAL FILL: DEFINED IN SPECIFICATIONS.

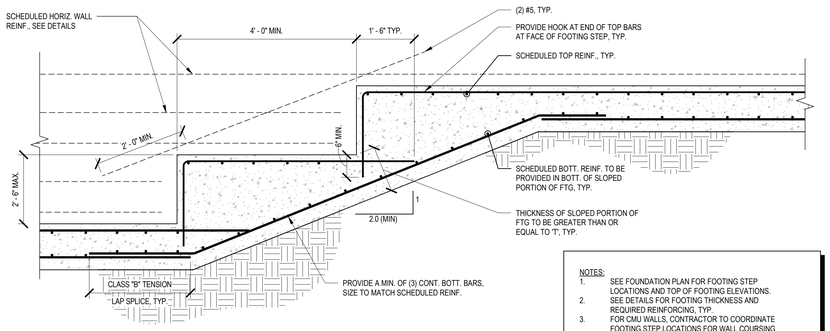
1 SLAB-ON-GRADE SUBGRADE PREPARATION

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



2 SLAB-ON-GRADE THICKNESS TRANSITION

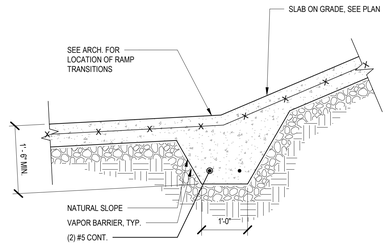
S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. SEE FOUNDATION PLAN FOR FOOTING STEP LOCATIONS AND TOP OF FOOTING ELEVATIONS.
2. SEE DETAILS FOR FOOTING THICKNESS AND REQUIRED REINFORCING, TYP.
3. FOR CMU WALLS, CONTRACTOR TO COORDINATE FOOTING STEP LOCATIONS FOR WALL COURSING AND TO ACHIEVE RISE-TO-RUN RATIO OF 1:2 MAX.

18 STEPPED WALL FOOTING DETAIL

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



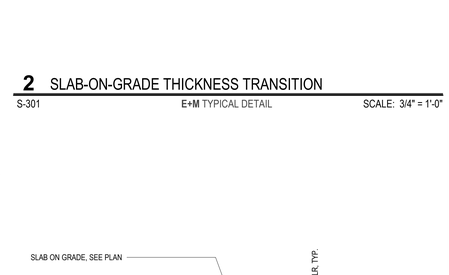
10 SLAB-ON-GRADE RAMP TRANSITION

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

NOTES:
1. REINFORCEMENT SHOWN IN THIS DETAIL DOES NOT APPLY TO POST-TENSIONED SLABS ON GRADE. ALL PT AND MILD REINFORCEMENT IN POST-TENSIONED SLABS ON GRADE SHALL BE SPECIFIED BY A SPECIALTY ENGINEER.
2. SEE PLAN FOR LOCATION OF STEPS/DEPRESSIONS, SLAB ON GRADE THICKNESS, AND REQUIRED REINFORCEMENT.
3. COORDINATE DEPTHS AND LOCATIONS OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
4. PROVIDE (1) #4 DIAGONAL TOP BAR AT CORNERS OF ALL DEPRESSIONS, TYP.

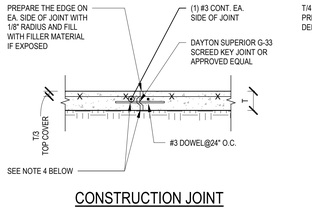
7 DEPRESSIONS IN SLAB-ON-GRADE

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

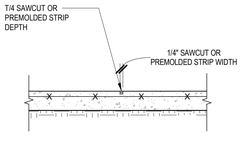


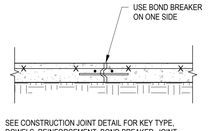
3 SLAB-ON-GRADE REINFORCING PLACEMENT DETAIL

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



CONSTRUCTION JOINT

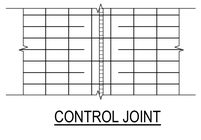




SEE CONSTRUCTION JOINT DETAIL FOR KEY TYPE, DOWELS, REINFORCEMENT, BOND BREAKER, JOINT EDGING DETAIL AND FILLER MATERIAL

OPTIONAL CONTROL JOINT
CONCRETE PLACED IN ONE POUR

CONSTRUCTION JOINT NOTES:
1. SEE PLAN FOR SLAB THICKNESS (T) AND REINFORCEMENT.
2. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
3. DO NOT USE THE KEY JOINT FOR SCREEDING.
4. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE OF KEY AND DOWEL WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.
5. REFER TO GENERAL NOTES, GENERAL SPECIFICATIONS, AND DRAWINGS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION AND/OR MUD SLAB AND VAPOR BARRIER REQUIREMENTS.
6. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
7. LONG STRIP CONSTRUCTION METHOD SHALL BE USED IN PLACING CONCRETE FOR ALL SLABS ON GRADE. SEE SCHEMATIC PLAN FOR CONCRETE PLACING SEQUENCE.



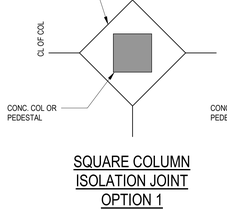
CONTROL JOINT

SAW CONTROL JOINT NOTES:
1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB APPROXIMATELY 4 TO 8 HOURS AFTER PLACEMENT.
2. CLEAN JOINT PRIOR TO FILLING THE JOINT.

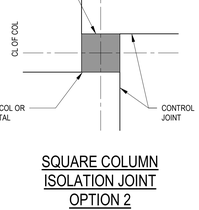
FORMED CONTROL JOINT NOTES:
1. FORM CONTROL JOINTS BY INSERTING THE PRE-MOLDED STRIP INTO FRESH CONCRETE UNTIL TOP SURFACE OF STRIP IS FLUSH WITH SLAB SURFACE.
2. TOOL SLAB EDGES ROUND ON EACH SIDE OF THE INSERT.
3. AFTER CONCRETE HAS CURED, REMOVE INSERTS AND CLEAN GROOVE OF LOOSE DEBRIS.

DOWEL NOTES:
1. ALL DOWELS SHALL CONFORM TO ASTM A615.
2. DOWELS SHALL BE CAREFULLY ALIGNED AND SUPPORTED DURING CONCRETE OPERATIONS.

JOINT SPACING NOTES:
1. PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMN LINES SUCH THAT THE JOINT SPACING DOES NOT EXCEED +/-24 FT FOR 7" SLAB, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
2. ALL PANELS SHALL BE SQUARE OR NEARLY SO. THE LENGTH OF THE SLAB PANEL SHALL NOT EXCEED 1.5 TIMES THE LENGTH.
3. CONTROL JOINTS SHALL NOT BE PLACED UNDER FLOOR AREAS WITH CERAMIC TILE. REFERENCE ARCHITECTURAL FLOOR FINISH PLAN AND SCHEDULE FOR LOCATION INFORMATION.



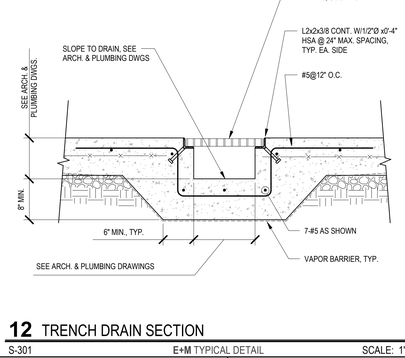
SQUARE COLUMN ISOLATION JOINT OPTION 1



SQUARE COLUMN ISOLATION JOINT OPTION 2

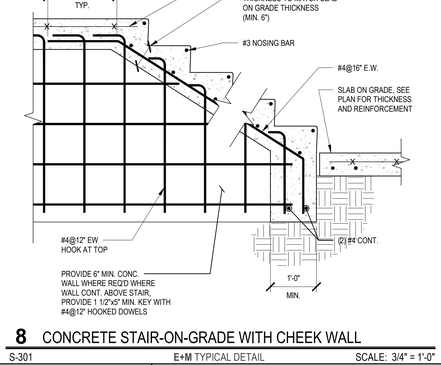
20 CONSTRUCTION AND CONTROL JOINTS IN SLAB-ON-GRADE

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



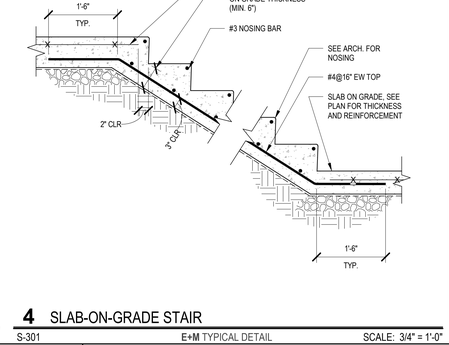
12 TRENCH DRAIN SECTION

S-301 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"



8 CONCRETE STAIR-ON-GRADE WITH CHEEK WALL

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



4 SLAB-ON-GRADE STAIR

S-301 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

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NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
FOUNDATION SECTIONS AND DETAILS

S-301
Sheet Number

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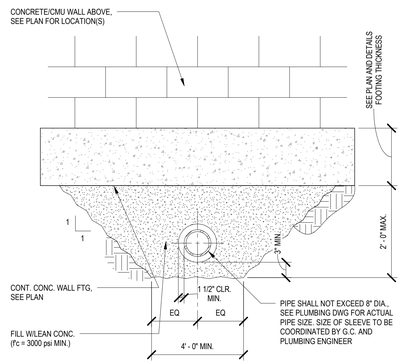
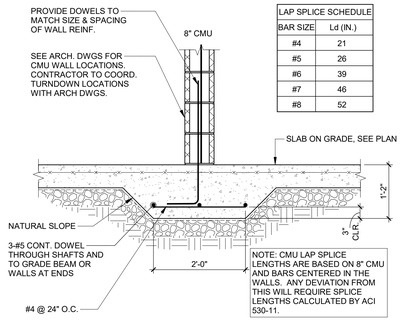


13 PIPE PENETRATION BELOW CONTINUOUS WALL FOOTING

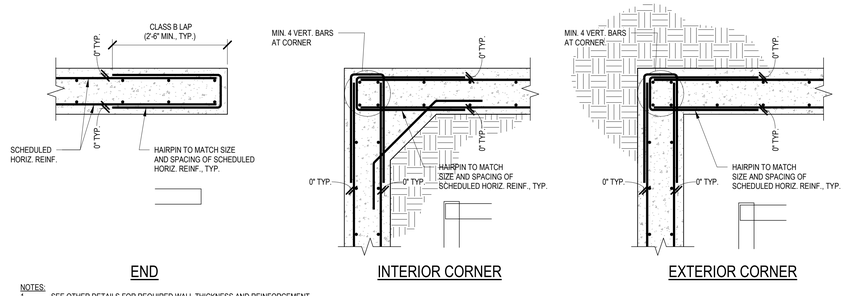
S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



LAP SPLICE SCHEDULE	
BAR SIZE	Ld (IN.)
#4	21
#5	26
#6	39
#7	46
#8	52

9 SLAB-ON-GRADE AT NON-LOAD-BEARING CMU WALL

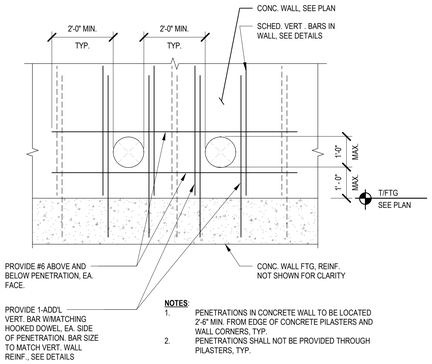
S-302 SCALE: 3/4" = 1'-0"



NOTES:
1. SEE OTHER DETAILS FOR REQUIRED WALL THICKNESS AND REINFORCEMENT.
2. THERE SHALL BE NO VERTICAL CONSTRUCTION JOINTS LOCATED IN WALLS WITHIN 5'-0" OF CORNERS UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

5 REINF STEEL AT CORNERS AND ENDS OF CONCRETE WALLS

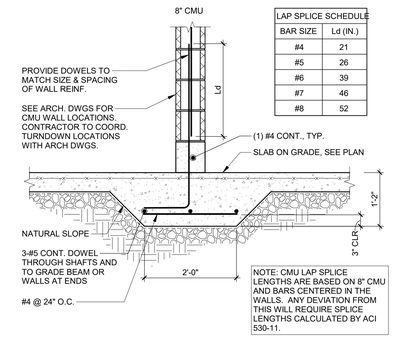
S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. PENETRATIONS IN CONCRETE WALL TO BE LOCATED 2'-6" MIN. FROM EDGE OF CONCRETE PILASTERS AND WALL CORNERS, TYP.
2. PENETRATIONS SHALL NOT BE PROVIDED THROUGH PILASTERS, TYP.

14 PENETRATION THROUGH CONCRETE WALL

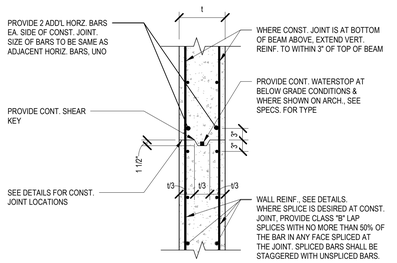
S-302 E+M TYPICAL DETAIL SCALE: 1/2" = 1'-0"



LAP SPLICE SCHEDULE	
BAR SIZE	Ld (IN.)
#4	21
#5	26
#6	39
#7	46
#8	52

10 SLAB-ON-GRADE AT NON-LB CMU WALL WITH CIP CURB

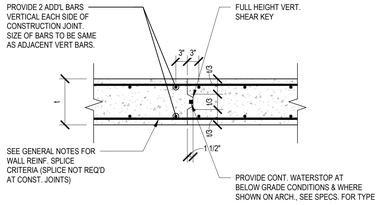
S-302 SCALE: 3/4" = 1'-0"



NOTES:
1. GENERAL CONTRACTOR SHALL OBTAIN PRIOR WRITTEN APPROVAL FROM ENGINEER IF ADDITIONAL HORIZONTAL CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS ARE DESIRED.
2. REFER TO GENERAL NOTES FOR SPLICE REINFORCEMENT, UNO ON THE DRAWINGS.

6 HORIZONTAL CONSTRUCTION JOINT AT CONCRETE WALL

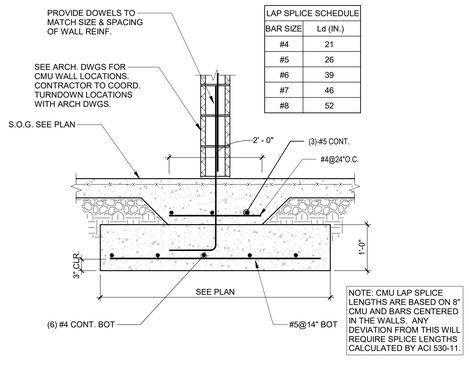
S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. SUBMIT PROPOSED WALL JOINT LOCATIONS FOR APPROVAL PRIOR TO POURING WALL.
2. WHERE WALLS SPAN HORIZONTALLY, JOINTS SHALL BE LOCATED IN THE MIDDLE THIRD OF WALL SPANS, U.N.O. SEE PLANS FOR LOCATIONS WHERE WALLS SPAN HORIZONTALLY.
3. SEE ARCHITECTURAL DRAWINGS FOR TREATMENT OF EXPOSED CONSTRUCTION JOINTS (RUB OUT, PROVIDE REVEAL, OR OTHER) AND OTHER JOINT REQUIREMENTS.
4. PROVIDE WALL CONSTRUCTION JOINTS SUCH THAT NO SINGLE WALL POUR EXCEEDS 60'-0" IN LENGTH.
5. THERE SHALL BE NO VERTICAL CONSTRUCTION JOINT IN WALL WITHIN 5'-0" OF CORNERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.
6. PROVIDE CONTROL JOINTS AT 20'-0" MAX. WITH 3/4" CHAMFER STRIP EACH FACE. DISCONTINUE EVERY OTHER HORIZONTAL BAR IN EACH FACE AT CONTROL JOINT.

2 VERTICAL CONSTRUCTION JOINT AT CONCRETE WALL

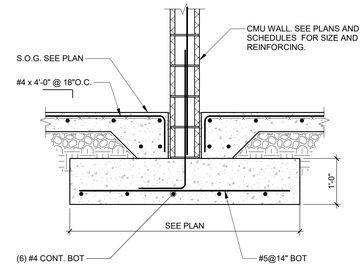
S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



LAP SPLICE SCHEDULE	
BAR SIZE	Ld (IN.)
#4	21
#5	26
#6	39
#7	46
#8	52

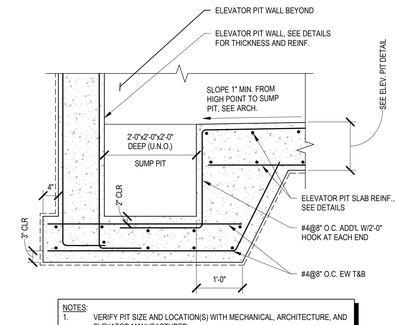
15 TYPICAL LOAD-BEARING CMU WALL FOOTING - ALTERNATE

S-302 SCALE: 3/4" = 1'-0"



11 TYPICAL LOAD-BEARING CMU WALL FOOTING

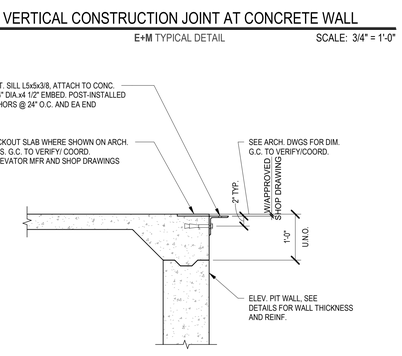
S-302 SCALE: 3/4" = 1'-0"



NOTES:
1. VERIFY PIT SIZE AND LOCATION(S) WITH MECHANICAL, ARCHITECTURE, AND ELEVATOR MANUFACTURER
2. SEE DETAIL 8/S-302 FOR INFORMATION NOT SHOWN.

7 ELEVATOR SUMP PIT

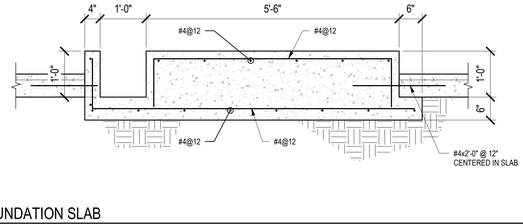
S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. CONFIRM REQUIREMENT WITH ELEVATOR MANUFACTURER.
2. PROVIDE CONTINUOUS ELEVATOR SILL ANGLE AT THRESHOLD OF ELEVATOR PIT. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
3. INSTALL ANCHORS ACCORDING TO MANUFACTURER'S REQUIREMENTS.

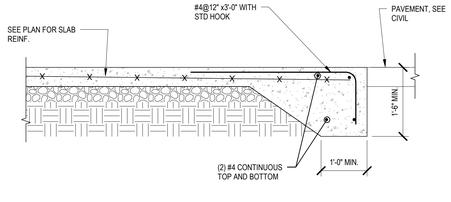
3 ELEVATOR PIT SILL ANGLE CONNECTION

S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



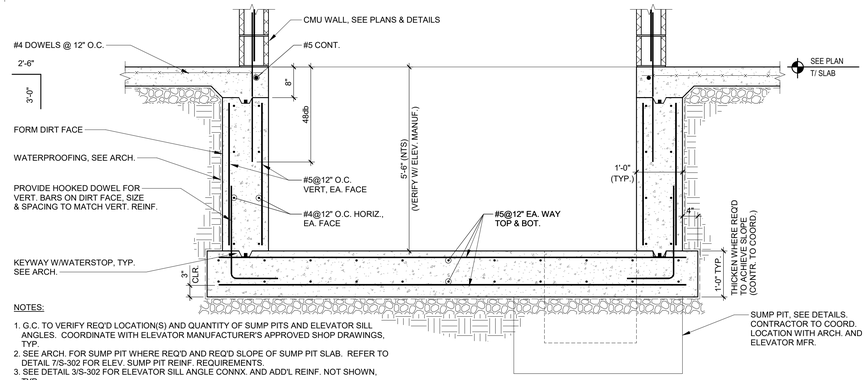
20 WASHER FOUNDATION SLAB

S-302 SCALE: 3/4" = 1'-0"



12 TYPICAL EXTERIOR SLAB DETAIL

S-302 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. G.C. TO VERIFY REQ'D LOCATION(S) AND QUANTITY OF SUMP PITS AND ELEVATOR SILL ANGLES. COORDINATE WITH ELEVATOR MANUFACTURER'S APPROVED SHOP DRAWINGS, TYP.
2. SEE ARCH. FOR SUMP PIT WHERE REQ'D AND REQ'D SLOPE OF SUMP PIT SLAB. REFER TO DETAIL 7/S-302 FOR ELEV. SUMP PIT REINF. REQUIREMENTS.
3. SEE DETAIL 3/S-302 FOR ELEVATOR SILL ANGLE CONNX. AND ADD'L REINF. NOT SHOWN, TYP.

8 SECTION THRU ELEVATOR PIT

S-302 SCALE: 3/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
FOUNDATION SECTIONS AND DETAILS

S-302
Sheet Number

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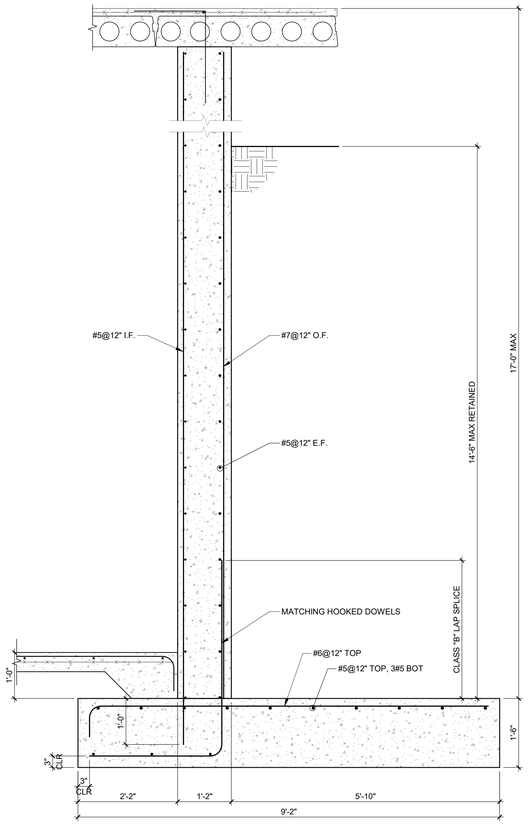
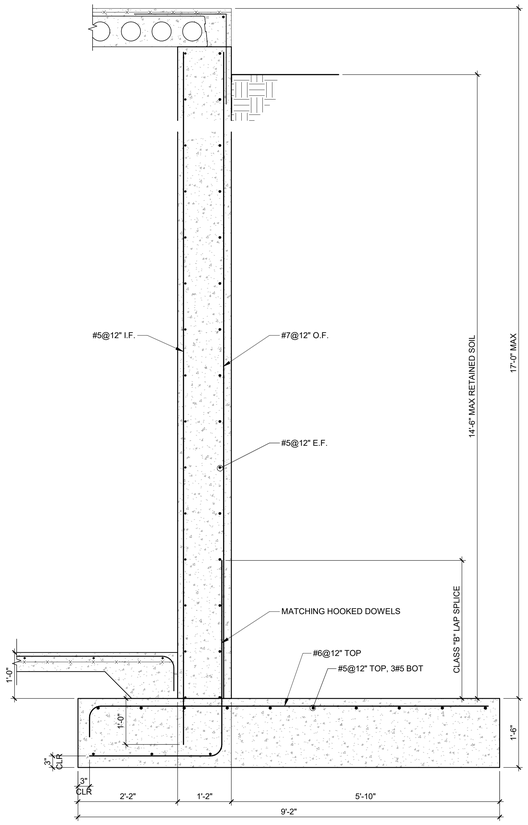
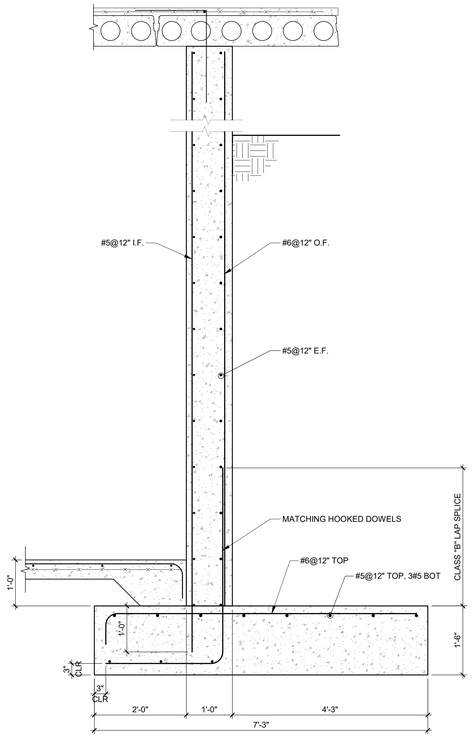


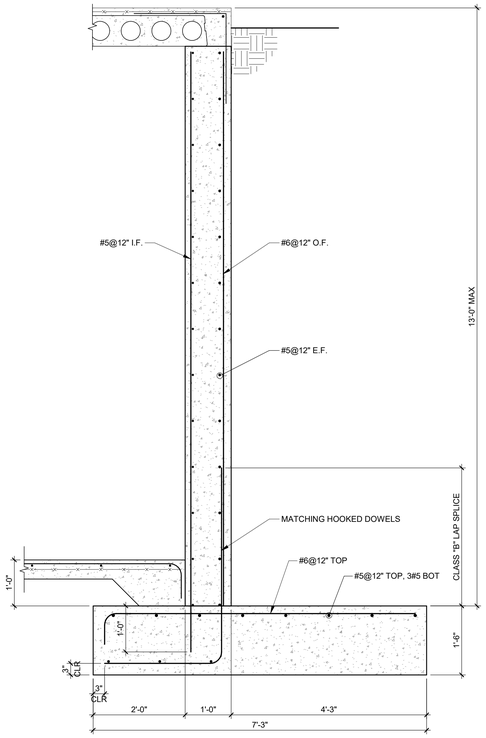
14 RETAINING WALL SECTION
S-310 SCALE: 3/4" = 1'-0"



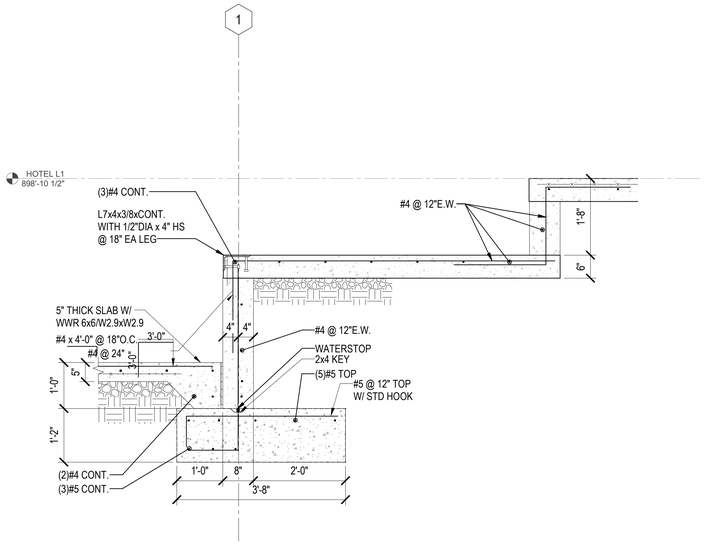
10 RETAINING WALL SECTION
S-310 SCALE: 3/4" = 1'-0"



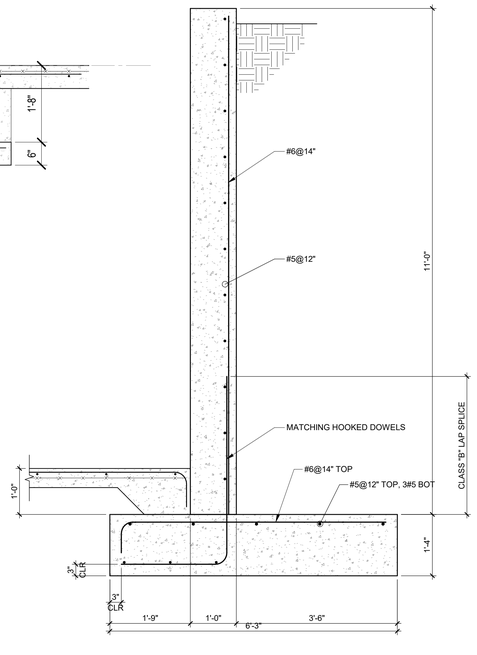
6 RETAINING WALL SECTION
S-310 SCALE: 3/4" = 1'-0"



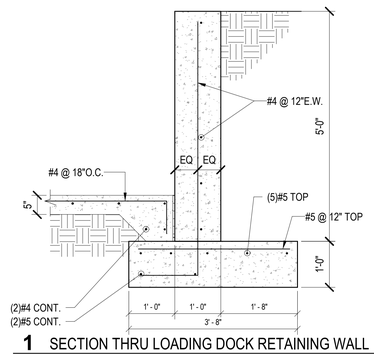
2 RETAINING WALL SECTION
S-310 SCALE: 3/4" = 1'-0"



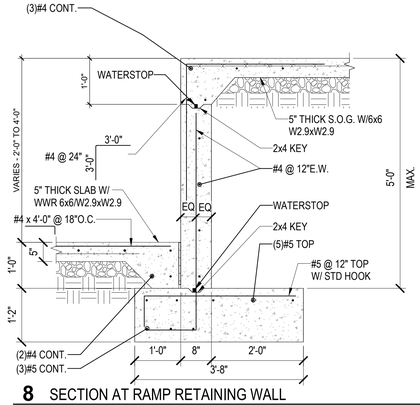
16 DOCK LEVELER
S-310 SCALE: 3/4" = 1'-0"



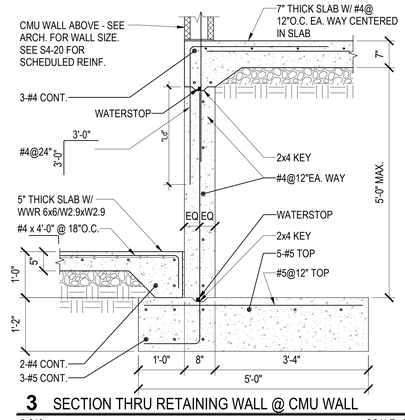
12 RETAINING WALL SECTION
S-310 SCALE: 3/4" = 1'-0"



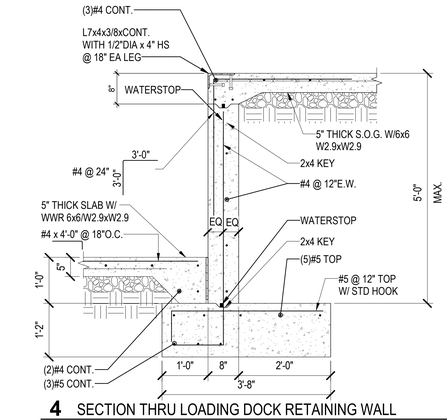
1 SECTION THRU LOADING DOCK RETAINING WALL
S-310 SCALE: 3/4" = 1'-0"



8 SECTION AT RAMP RETAINING WALL
S-310 SCALE: 3/4" = 1'-0"



3 SECTION THRU RETAINING WALL @ CMU WALL
S-310 SCALE: 3/4" = 1'-0"



4 SECTION THRU LOADING DOCK RETAINING WALL
S-310 SCALE: 3/4" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
RETAINING WALL DETAILS

S-310
Sheet Number

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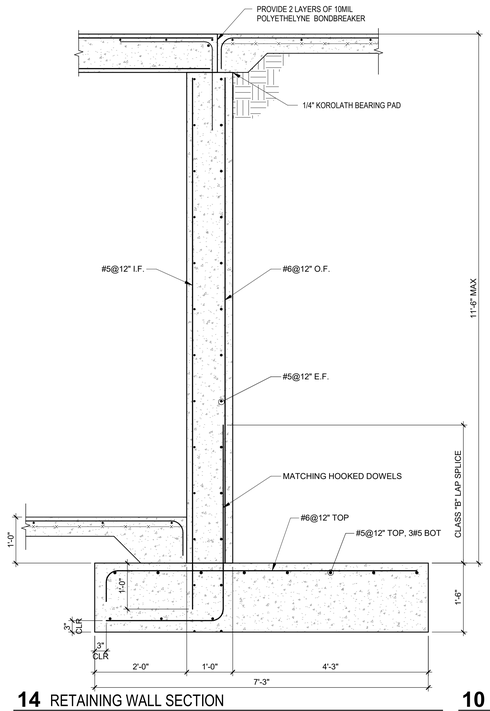
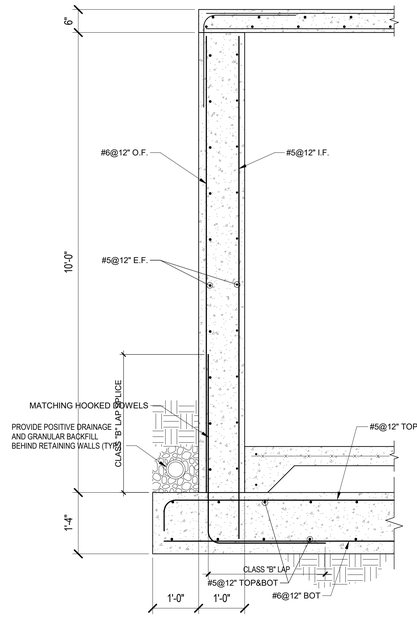


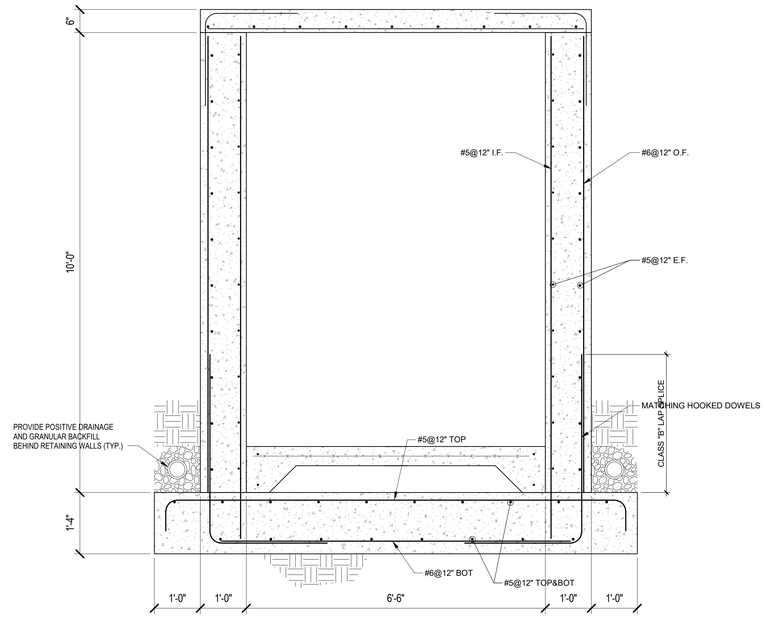
14 RETAINING WALL SECTION

S-311 SCALE: 3/4" = 1'-0"



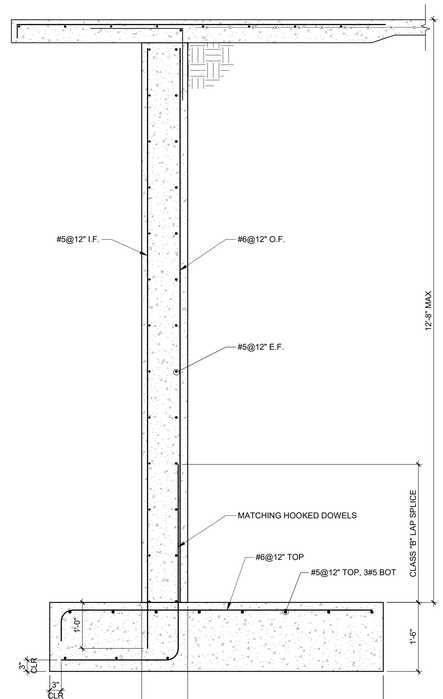
10 SECTION AT RETAINING WALL

S-311 SCALE: 3/4" = 1'-0"



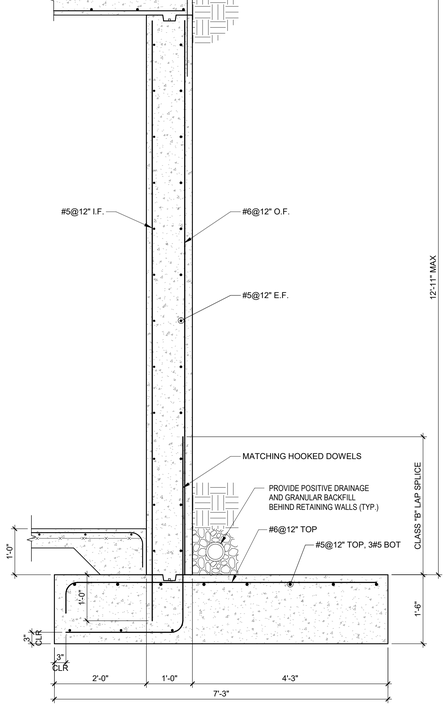
6 SECTION AT TUNNEL

S-311 SCALE: 3/4" = 1'-0"



8 RETAINING WALL SECTION

S-311 SCALE: 3/4" = 1'-0"



4 RETAINING WALL SECTION

S-311 SCALE: 3/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Number

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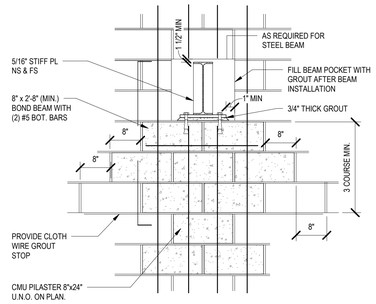
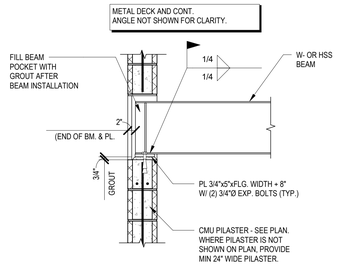


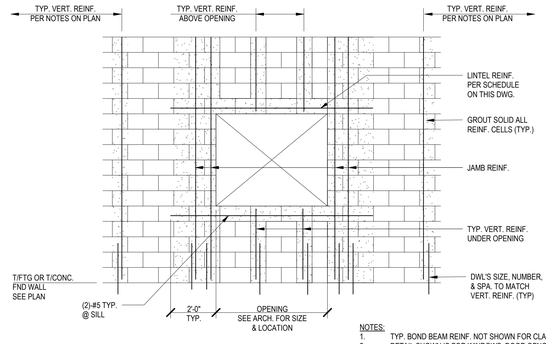
TYP ELEVATION



TYP SECTION

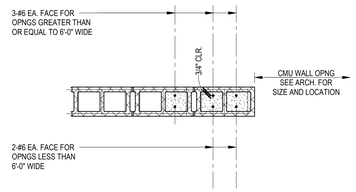
17 REINFORCING DETAIL WHERE STEEL BEAM BEARING ON CMU

S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. TYP. BOND BEAM REINF. NOT SHOWN FOR CLARITY.
2. DETAIL SHOWN IS FOR WINDOWS. DOOR OPNGS. ARE SIMILAR.

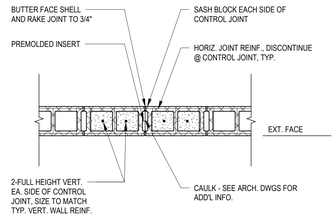
TYP WALL ELEVATION



TYP JAMB DETAIL

9 CMU WALL OPENINGS DETAIL

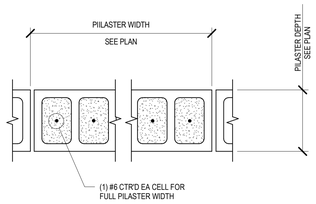
S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTE: VERTICAL REINFORCING MAY BE REQUIRED AT EACH FACE, SEE FOUNDATION NOTES FOR REQUIREMENTS.

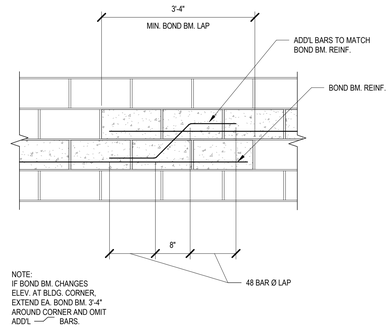
1 CMU WALL CONTROL JOINT DETAIL

S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



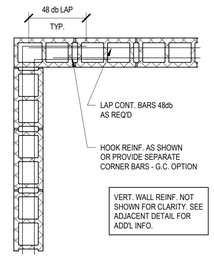
18 CMU PILASTER DETAIL

S-420 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"

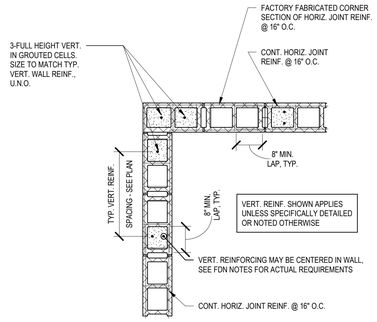


10 CMU BOND BEAM STEP

S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



AT BOND BEAM



TYP. VERT. REINF. AND JOINT REINF.

6 CMU WALL CORNER DETAILS

S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

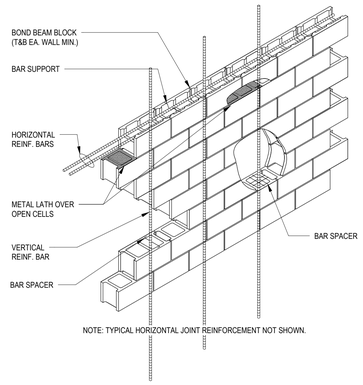
NON-LOAD BEARING NON-FIRE WALL MASONRY REINFORCEMENT SCHEDULE			
12" CMU	EXTERIOR	Hw ≤ 15'-0"	#6@48" CTR'D
		Hw > 15'-0" ≤ 20'-0"	#6@48" CTR'D
	INTERIOR	Hw ≤ 25'-0"	#6@48" CTR'D
8" CMU	EXTERIOR	Hw ≤ 15'-0"	#5@48" CTR'D
		Hw > 15'-0" ≤ 18'-0"	#6@48" CTR'D
	INTERIOR	Hw ≤ 20'-0"	#5@48" CTR'D

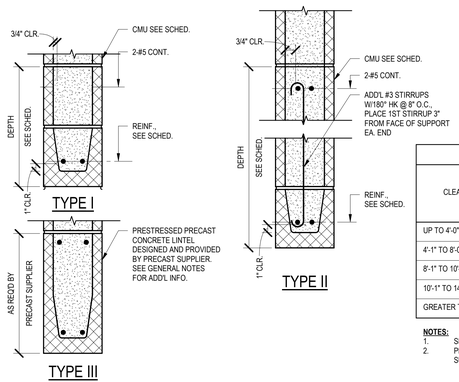
NON-LOAD BEARING FIRE WALL MASONRY REINFORCEMENT SCHEDULE		
	REQUIRED FIRE-RESISTANCE PERIOD	
12" CMU	4 HRS	#6@48" CTR'D
8" CMU	4 HRS	#5@8" CTR'D
	3 HRS	#5@16" CTR'D
	2 HRS	#5@32" CTR'D

NOTES:
1. GROUT CMU CELLS AT VERTICAL REINFORCING ONLY.
2. ANCHOR ALL VERTICAL REINF. TO FOUNDATION (OR SLAB/BEAM) USING MATCHING DOWELS.
3. PROVIDE ADDITIONAL (2)-#5 VERTICAL REINF. EA. SIDE OF CONTROL JOINT.
4. PROVIDE CONT. 9 GA TRUSS TYPE HORIZ. JOINT REINF. @ 16" O.C.
5. REINFORCE CMU CORES AT ALL CORNERS W/ (2)-#6
6. USE BOND BEAM W/ (2)-#5 MIN. AT TOP AND BOT. OF WALL AND 10'-0" CENTERS MAX.
7. EXTERIOR LOCATION APPLIES WHERE CMU WALL OR FINISH ON CMU WALL IS DIRECTLY EXPOSED TO WIND. INCLUDING INTERIOR WALLS LOCATED IN WIND PATHS. INTERIOR LOCATION APPLIES WHERE CMU WALL IS NOT DIRECTLY EXPOSED TO WIND.

RUNNING BOND NON-LOAD BEARING CMU WALL
19 REINFORCEMENT SCHEDULE

S-420 E+M TYPICAL DETAIL SCALE: 1/2" = 1'-0"



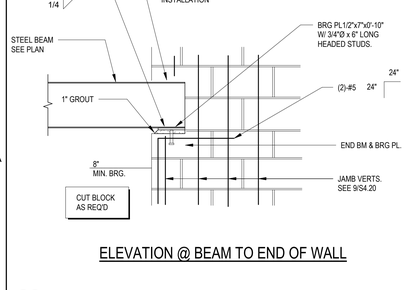


CONCRETE MASONRY LINTEL SCHEDULE						
CLEAR SPAN	12" BLOCK			8" BLOCK		
	LINTEL DEPTH	REINF. (BOT.)	COMMENTS	LINTEL DEPTH	REINF. (BOT.)	COMMENTS
UP TO 4'-0"	16"	2-#5	TYPE I	16"	2-#5	TYPE I
4'-1" TO 8'-0"	24"	2-#6	TYPE I	24"	2-#6	TYPE I
8'-1" TO 10'-0"	32"	2-#8	TYPE II	32"	2-#8	TYPE II
10'-1" TO 14'-8"	40"	2-#8	TYPE II	40"	2-#8	TYPE II
GREATER THAN 14'-8"	NOTE #2	NOTE #2	TYPE III	NOTE #2	NOTE #2	TYPE III

NOTES:
1. SEE TYPICAL SCHEMATIC CMU WALL OPENING ELEVATION FOR ADDITIONAL INFORMATION.
2. PRECAST LINTEL DEPTH AND REINFORCING SHALL BE DETERMINED BY THE PRECAST SUPPLIER. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

7 CMU WALL LINTEL DETAIL AND SCHEDULE

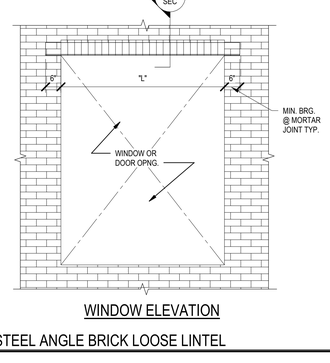
S-420 E+M TYPICAL DETAIL SCALE: 1 1/2" = 1'-0"



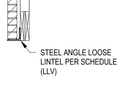
ELEVATION @ BEAM TO END OF WALL

20 STEEL SUPPORT AT CMU WALL

S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



WINDOW ELEVATION



SECTION "A"

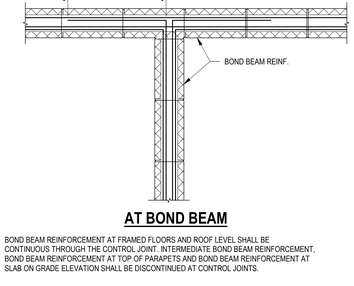
16 STEEL ANGLE BRICK LOOSE LINTEL

S-420 E+M TYPICAL DETAIL SCALE: 1/2" = 1'-0"

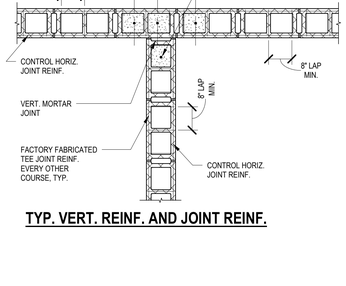
BRICK LOOSE STEEL LINTEL SCHEDULE

A. STEEL LINTEL SCHEDULE FOR MASONRY OPENING IS AS FOLLOWS:

MAXIMUM SPAN L	STEEL ANGLE SIZE (LLV)
3'-0"	L3 1/2 x 3 1/2 x 1/4 x 4'-0"
4'-0"	L5 x 3 1/2 x 1/4 x 5'-0"
5'-0"	L5 x 3 1/2 x 5/16 x 6'-0"
8'-0"	L5 x 3 1/2 x 3/8 x 9'-0"
9'-0"	L6 x 4 x 3/8 x 10'-0"
12'-0"	L7 x 4 x 1/2 x 13'-0"



AT BOND BEAM



TYP. VERT. REINF. AND JOINT REINF.

NOTE: BOND BEAM REINFORCEMENT AT FRAMED FLOORS AND ROOF LEVEL SHALL BE CONTINUOUS THROUGH THE CONTROL JOINT. INTERMEDIATE BOND BEAM REINFORCEMENT, BOND BEAM REINFORCEMENT AT TOP OF PARAPETS AND BOND BEAM REINFORCEMENT AT SLAB ON GRADE ELEVATION SHALL BE DISCONTINUED AT CONTROL JOINTS.

8 CMU WALL INTERSECTION DETAIL

S-420 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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CMU FRAMING SECTIONS AND DETAILS

S-420
Sheet Number

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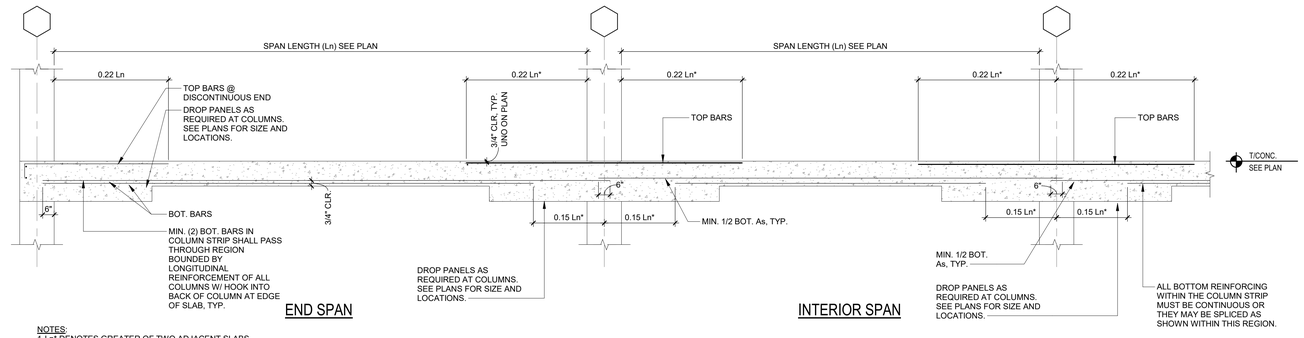
SLAB TENSION DEVELOPMENT/SPLICE LENGTHS													
Bar Size	Bar Grade	f'c=3000psi				f'c=4000psi				f'c=5000psi			
		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	60	25	13	33	17	22	12	28	14	20	12	25	13
#4	60	33	17	43	22	29	15	37	19	26	13	34	17
#5	60	42	21	54	27	36	18	47	24	32	16	42	21
#6	60	50	25	65	33	43	22	56	28	39	20	50	25
#7	60	72	36	94	47	63	32	81	41	56	28	73	37
#8	60	83	42	107	54	72	36	93	47	64	32	83	42
#9	60	93	47	120	60	80	40	104	52	72	36	93	47
#10	60	105	53	136	68	91	46	118	59	81	41	106	53
#11	60	116	58	151	76	101	51	131	51	90	45	117	59

NOTES:
1. THIS TABLE CONTAINS DEVELOPMENT AND SPLICE LENGTHS FOR CONCRETE SLABS ONLY.
2. ALL DEVELOPMENT/SPLICE LENGTHS ARE IN INCHES.
3. Ld = TENSION DEVELOPMENT LENGTH PER CHAPTER 12 OF ACI 318.
4. CASE 1 SHALL APPLY WHEN THE CONCRETE COVER ≥ 2*db.
5. CASE 2 SHALL APPLY WHEN THE CONCRETE COVER ≥ 1.5*db AND CENTER-TO-CENTER BAR SPACING IS ≥ 4*db.
6. FOR BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT LENGTH OR SPLICE, DEVELOPMENT/SPLICE LENGTHS TABULATED ABOVE SHOULD BE MULTIPLIED BY 1.3.
7. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR, BUT SHALL NOT BE LESS THAN THE CLASS A SPLICE LENGTH OF THE LARGER BAR.
8. FOR EPOXY COATED BARS, MULTIPLY DEVELOPMENT/SPLICE LENGTH BY 1.5 (THE PRODUCT OF THE TOP BAR MULTIPLIER AND THE EPOXY COATED BAR (MULTIPLIER NEED NOT BE MORE THAN 1.7).

17 SLAB TENSION DEVELOPMENT/SPLICE LENGTHS (NWC)

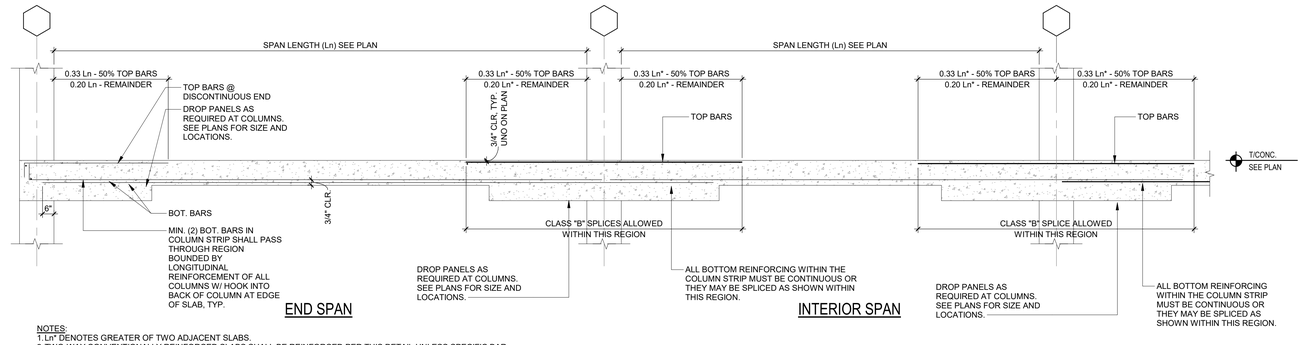
S-430 SCALE: 1" = 1'-0"



NOTES:
1. Ln* DENOTES GREATER OF TWO ADJACENT SLABS.
2. TWO-WAY CONVENTIONALLY REINFORCED SLABS SHALL BE REINFORCED PER THIS DETAIL UNLESS SPECIFIC BAR LENGTHS ARE GIVEN ON THE REINFORCING PLANS.

9 MILD SLAB - TYPICAL TWO-WAY SLAB BAY REINFORCING (MIDDLE STRIP)

S-430 E+M TYPICAL DETAIL SCALE: 3/8" = 1'-0"



NOTES:
1. Ln* DENOTES GREATER OF TWO ADJACENT SLABS.
2. TWO-WAY CONVENTIONALLY REINFORCED SLABS SHALL BE REINFORCED PER THIS DETAIL UNLESS SPECIFIC BAR LENGTHS ARE GIVEN ON THE REINFORCING PLANS.

10 MILD SLAB - TYPICAL TWO-WAY SLAB BAY REINFORCING (COLUMN STRIP)

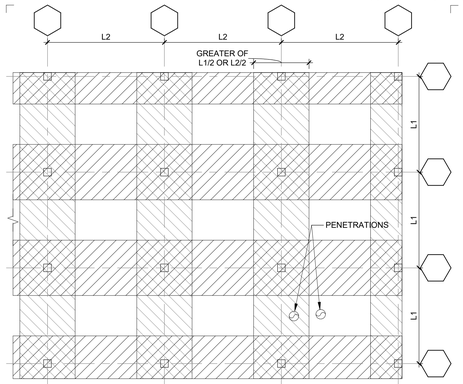
S-430 E+M TYPICAL DETAIL SCALE: 3/8" = 1'-0"

TEMPERATURE AND SHRINKAGE REINFORCEMENT SCHEDULE	
SLAB THICKNESS	SIZE AND SPACING
4"	#3@15"
5"	#3@12"
6"	#4@18"
7"	#4@15"
8"	#4@13"
9"	#4@12"
10"	#5@17"
12"	#5@14"

NOTES:
1. TEMPERATURE AND SHRINKAGE REINFORCEMENT SHALL BE PLACED PERPENDICULAR TO FLEXURAL REINFORCING, ABOVE BOTTOM AND BELOW TOP FLEXURAL REINFORCING.
2. LAP ALL TEMPERATURE AND SHRINKAGE REINFORCING WITH CLASS A TENSION LAPS.

20 TEMPERATURE & SHRINKAGE SCHEDULE

S-430 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"

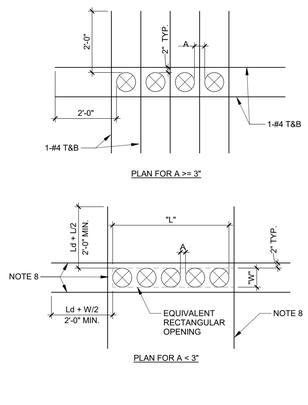


NOTE: PENETRATIONS IN COLUMN STRIPS MUST BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.

14 SLAB PENETRATIONS NEAR COLUMN STRIPS

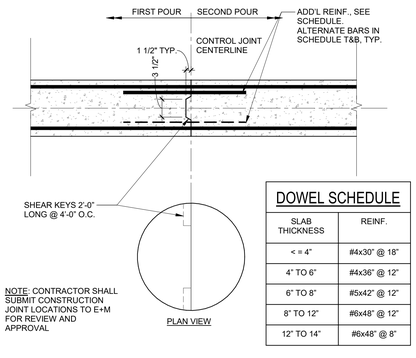
S-430 E+M TYPICAL DETAIL SCALE: 3/8" = 1'-0"

NOTES:
1. WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS LESS THAN 3", THE SLEEVE GROUP SHALL BE TREATED AS AN EQUIVALENT RECTANGULAR OPENING WITH LENGTH "L" AND WIDTH "W" AS SHOWN.
2. WHERE CLEAR SPACING BETWEEN ADJACENT SLEEVES IS GREATER THAN OR EQUAL TO 3", SCHEDULED SLAB BAR REINFORCEMENT SHALL BE OFFSET AS REQUIRED TO MISS SLEEVES.
3. REINFORCEMENT SHOWN IS ADDITIONAL TO SCHEDULED SLAB REINFORCEMENT.
4. SCHEDULE SLAB MESH REINFORCEMENT MAY BE CUT AS REQUIRED TO MISS PIPE SLEEVES.
5. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF SLEEVES.
6. ISOLATED PIPE SLEEVES THAT ARE SMALLER THAN 5" AND DO NOT INTERRUPT REINFORCING DO NOT REQUIRE THE USE OF THIS DETAIL.
7. THIS DETAIL SHOULD NOT BE USED FOR OPENING GROUPS WITH DIAMETERS LARGER THAN 12". CONSULT ENGINEER FOR FRAMING OF SUCH CONDITIONS.
8. PROVIDE HALF OF INTERRUPTED REINFORCEMENT PLUS ONE ADDITIONAL BAR OF SOME SIZE AS INTERRUPTED REINFORCEMENT ON EACH SIDE OF EQUIVALENT RECTANGULAR OPENING. PROVIDE MINIMUM 1-#4 TOP AND BOTTOM EACH SIDE OF OPENING.



19 ADDITIONAL REINFORCEMENT AROUND PIPE SLEEVES

S-430 E+M TYPICAL DETAIL SCALE: 1/2" = 1'-0"

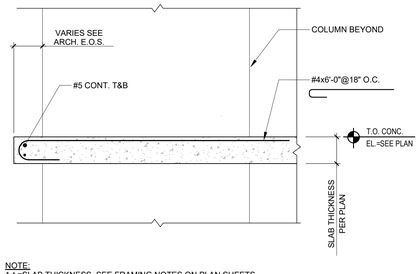


NOTE: CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LOCATIONS TO E+M FOR REVIEW AND APPROVAL

DOWEL SCHEDULE	
SLAB THICKNESS	REINF.
< = 4"	#4x30" @ 18"
4" TO 6"	#4x36" @ 12"
6" TO 8"	#5x42" @ 12"
8" TO 12"	#6x48" @ 12"
12" TO 14"	#6x48" @ 8"

11 CONSTRUCTION JOINT DETAIL

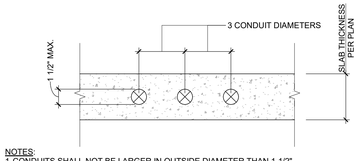
S-430 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"



NOTE:
1. t =SLAB THICKNESS. SEE FRAMING NOTES ON PLAN SHEETS.
2. ADDITIONAL SCHEDULED SLAB REINFORCING NOT SHOWN FOR CLARITY. SEE PLAN SHEETS.

7 E.O.S AT FLAT SLAB

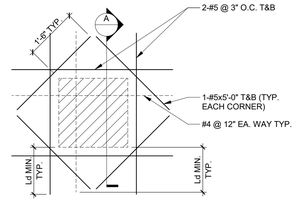
S-430 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

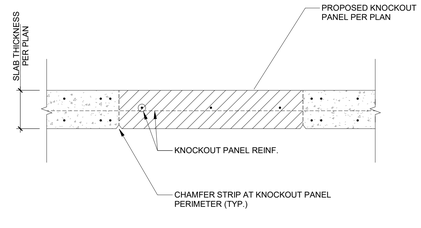


NOTES:
1. CONDUITS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1-1/2".
2. CONDUITS SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.
3. UNDER NO CIRCUMSTANCES SHALL ALUMINUM CONDUITS BE EMBEDDED IN STRUCTURAL CONCRETE.
4. CONDUITS SHALL BE PLACED BETWEEN TOP AND BOTTOM SLAB REINFORCEMENT AND SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SLAB DEPTH.
5. MINIMUM CONCRETE COVER FOR CONDUITS SHALL BE THE SAME AS THAT OF THE SLAB MAIN REINFORCEMENT.
6. CONDUITS SHALL NOT BE TIED TO STRUCTURAL REINFORCEMENT AND SHALL BE PLACED TO NOT INHIBIT REINFORCING CLEAR COVER.
7. CONDUITS CROSSING OVER OR UNDER BANDED TENDONS SHALL DO SO AT A 45°-90° ANGLE TO THE BAND DIRECTION.

3 CONDUITS EMBEDDED IN STRUCTURAL SLAB

S-430 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

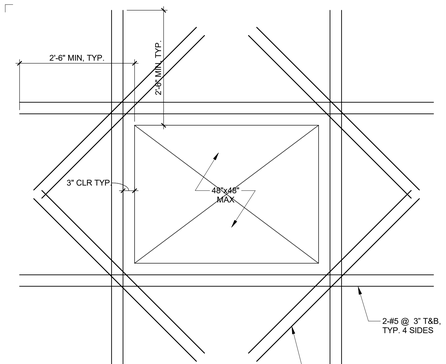




SECTION A

12 KNOCKOUT PANEL

S-430 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTE: THIS DETAIL APPLIES TO SLAB OPENINGS OF 4'-0" WIDTH OR LESS. FOR LARGER OPENINGS, CONTACT ENGINEER OF RECORD.

4 SLAB OPENING REINFORCING

S-430 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
TWO-WAY SLAB CONCRETE FRAMING SECTIONS AND DETAILS

S-430
Sheet Number

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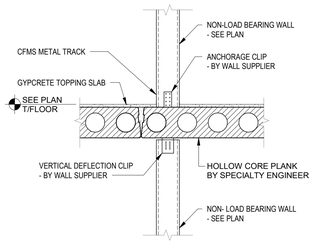
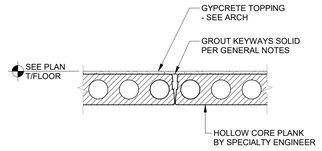


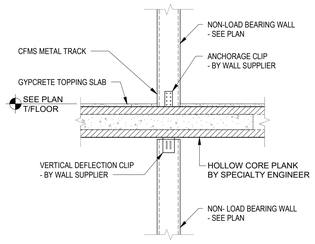
5 ELEVATED SLAB AT CFMS NON-LOAD BEARING WALL

S-440 SCALE: 3/4" = 1'-0"



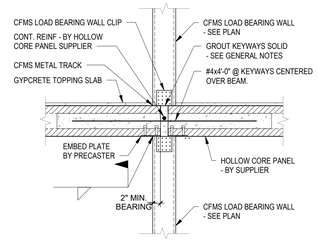
1 HOLLOW CORE SLAB JOINT DETAIL

S-440 SCALE: 3/4" = 1'-0"



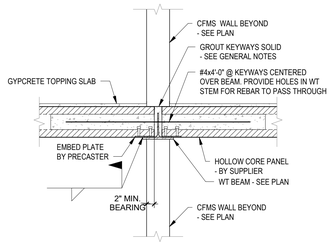
6 ELEVATED SLAB AT CFMS NON-LOAD BEARING WALL

S-440 SCALE: 3/4" = 1'-0"



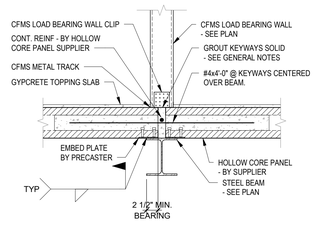
2 HOLLOW CORE SLAB AT CFMS LOAD BEARING WALL

S-440 SCALE: 3/4" = 1'-0"



3 HOLLOW CORE SLAB AT WT FLUSH BEAM

S-440 SCALE: 3/4" = 1'-0"



4 HOLLOW CORE SLAB DETAIL AT STEEL BEAM

S-440 SCALE: 3/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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Sheet Title
PRECAST FRAMING SECTIONS

S-440
Sheet Number

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CONCRETE BEAM TENSION DEVELOPMENT/SPLICE LENGTHS												
BAR SIZE	BAR GRADE	fc=4000psi						fc=5000psi					
		CLASS A (1.0"Ld)			CLASS B (1.3"Ld)			CLASS A (1.0"Ld)			CLASS B (1.3"Ld)		
		CASE			CASE			CASE			CASE		
		1	2	3	1	2	3	1	2	3	1	2	3
#5	60	24	17	15	31	23	23	22	15	13	28	19	17
#6	60	33	20	18	42	26	23	29	18	16	38	23	20
#7	60	52	30	25	67	38	33	46	27	23	60	34	29
#8	60	64	34	29	83	44	37	57	30	26	74	39	34
#9	60	72	38	32	94	50	42	65	34	33	96	51	43
#10	60	83	44	37	108	57	47	78	42	36	101	55	47
#11	60	87	47	41	113	61	53	106	74	43	138	96	56
#9	75	90	48	40	117	62	52	81	43	36	105	55	47

NOTES:
1. THIS TABLE CONTAINS DEVELOPMENT/SPLICE LENGTHS FOR CONCRETE BEAMS ONLY.
2. ALL SPLICE LENGTHS ARE IN INCHES.
3. Ld = TENSION DEVELOPMENT LENGTH PER CHAPTER 25 OF ACI 318.
4. CASE 1 SHALL APPLY WHEN THE CONCRETE COVER IS LESS THAN 3 db.
5. CASE 2 SHALL APPLY WHEN THE CONCRETE COVER IS LESS THAN 4 db AND GREATER THAN 3 db.
6. CASE 3 SHALL APPLY WHEN THE CONCRETE COVER IS LESS THAN 6 db AND GREATER THAN 4 db.
7. FOR BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT LENGTH OR SPLICE, DEVELOPMENT/SPLICE LENGTHS TABULATED ABOVE SHOULD BE MULTIPLIED BY 1.3.
8. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR, BUT SHALL NOT BE LESS THAN THE CLASS A SPLICE LENGTH OF THE LARGER BAR.
9. THIS TABLE DOES NOT APPLY TO EPOXY COATED REINFORCING.

9 CONCRETE BEAM TENSION DEVELOPMENT/SPLICE LENGTHS

S-450 SCALE: 3/4" = 1'-0"

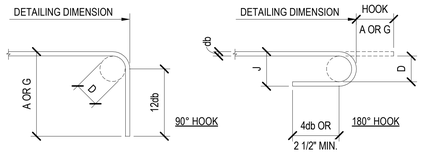
BASIC DEVELOPMENT LENGTH (Lhb) FOR STANDARD HOOK IN TENSION REINFORCEMENT

BAR SIZE	fc=3000 GR. 60	fc=3000 GR. 75	fc=4000 GR. 60	fc=4000 GR. 75	fc=5000 GR. 60	fc=5000 GR. 75	fc=6000 GR. 60	fc=6000 GR. 75	fc=7000 GR. 60	fc=7000 GR. 75	fc=8000 GR. 60	fc=8000 GR. 75	fc=9000 GR. 60	fc=9000 GR. 75	fc=10000 GR. 60	fc=10000 GR. 75	BAR SIZE
#3	8	9	7	9	6	8	6	7	6	7	6	6	6	6	6	6	#3
#4	11	14	10	12	9	11	8	10	7	9	7	8	6	8	6	8	#4
#5	14	17	12	15	11	13	10	12	9	11	8	11	8	10	8	10	#5
#6	17	21	14	18	13	16	12	15	11	14	10	13	10	12	9	12	#6
#7	19	24	17	21	15	19	14	17	13	16	12	15	11	14	11	14	#7
#8	22	27	19	24	17	21	16	19	14	18	14	17	13	16	12	16	#8
#9	25	31	22	27	19	24	18	22	16	20	15	19	14	18	14	18	#9
#10	28	35	24	30	22	27	20	25	18	23	17	21	16	20	15	20	#10
#11	31	39	27	34	24	30	22	27	20	25	19	24	18	22	17	22	#11

NOTES:
1. Lhb = BASIC DEVELOPMENT LENGTH OF STANDARD HOOK IN TENSION.
2. Ldh = DEVELOPMENT LENGTH OF STANDARD HOOK IN TENSION (INCHES), MEASURED FROM CRITICAL SECTION TO OUTSIDE END OF HOOK.
3. Ldh = Lhb EXCEPT:
   3.1. Ldh = 0.7*Lhb IF SIDE COVER (NORMAL TO PLANE OF HOOK) IS NOT LESS THAN 2 1/2" INCHES, AND FOR 90° HOOK, COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES.
   3.2. Ldh = 0.8*Lhb FOR HOOKS THAT ARE ENCLOSED IN TIES OR STIRRUPS PERPENDICULAR TO THE BAR BEING DEVELOPED SPACED NOT GREATER THAN 3 BAR DIAMETERS ALONG THE DEVELOPMENT LENGTH.
   3.3 DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY 1.3 FOR USE WITH LIGHTWEIGHT CONCRETE.
4. THIS SCHEDULED IS NOT FOR USE WITH EPOXY COATED BARS.

5 TENSION DEVELOPMENT OF STANDARD HOOK

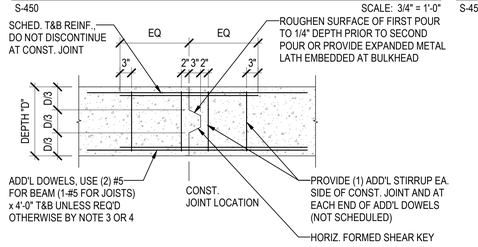
S-450 SCALE: 3/4" = 1'-0"



RECOMMENDED END HOOKS, ALL GRADES				
BAR SIZE	FINISHED BEND DIAMETER, D	180° HOOK		90° HOOK
		A OR G, (IN)	J, (IN)	A OR G, (IN)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

1 END HOOK TYPES

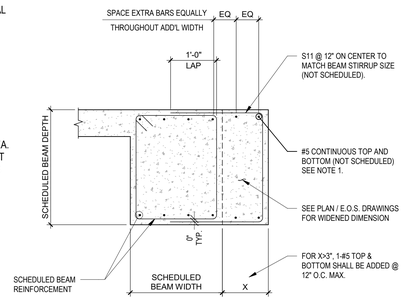
S-450 SCALE: 3/4" = 1'-0"



NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATE WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: PLACE JOINT WITHIN MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN. CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

6 CONSTRUCTION JOINT AT CONC. BEAM OR JOIST

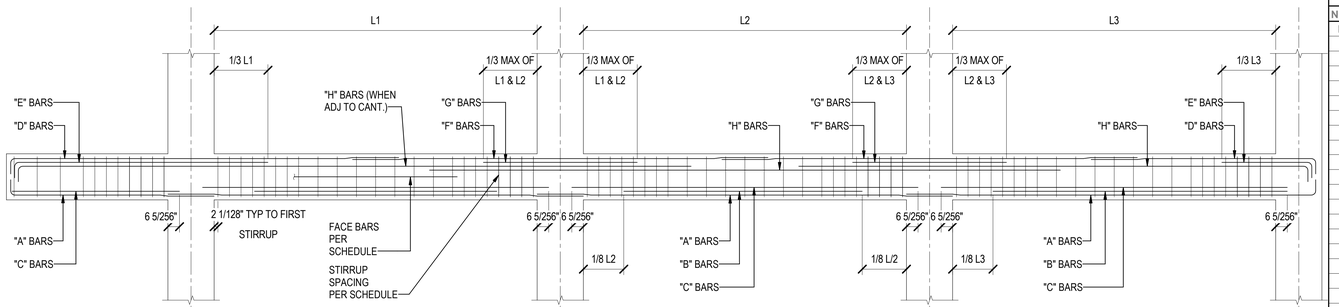
S-450 SCALE: 3/4" = 1'-0"



NOTE: THIS DETAIL APPLIES TO BEAMS WIDENED 3'-0" OR LESS. FOR BEAMS WIDENED MORE THAN 3'-0", SUBMIT CONDITION TO ENGINEER OF RECORD.

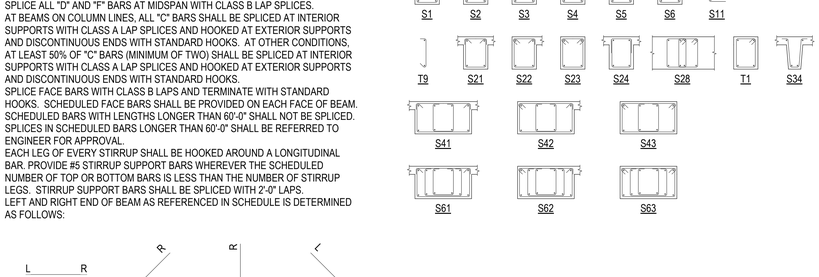
2 WIDENED CONCRETE BEAM

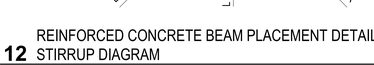
S-450 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



CANTILEVER SPAN TYPICAL SPAN END SPAN

NOTES:
1. SPLICE ALL "A" BARS AT SUPPORTS WITH CLASS B LAP SPLICES.
2. SPLICE ALL "D" AND "F" BARS AT MIDSPAN WITH CLASS B LAP SPLICES.
3. AT BEAMS ON COLUMN LINES, ALL "C" BARS SHALL BE SPLICED AT INTERIOR SUPPORTS WITH CLASS A LAP SPLICES AND HOOKED AT EXTERIOR SUPPORTS AND DISCONTINUOUS ENDS WITH STANDARD HOOKS. AT OTHER CONDITIONS, AT LEAST 50% OF "C" BARS (MINIMUM OF TWO) SHALL BE SPLICED AT INTERIOR SUPPORTS WITH CLASS A LAP SPLICES AND HOOKED AT EXTERIOR SUPPORTS AND DISCONTINUOUS ENDS WITH STANDARD HOOKS.
4. SPLICE FACE BARS WITH CLASS B LAPS AND TERMINATE WITH STANDARD HOOKS. SCHEDULED FACE BARS SHALL BE PROVIDED ON EACH FACE OF BEAM.
5. SCHEDULED BARS WITH LENGTHS LONGER THAN 60'-0" SHALL NOT BE SPLICED. SPLICES IN SCHEDULED BARS LONGER THAN 60'-0" SHALL BE REFERRED TO ENGINEER FOR APPROVAL.
6. EACH LEG OF EVERY STIRRUP SHALL BE HOOKED AROUND A LONGITUDINAL BAR. PROVIDE #5 STIRRUP SUPPORT BARS WHEREVER THE SCHEDULED NUMBER OF TOP OR BOTTOM BARS IS LESS THAN THE NUMBER OF STIRRUP LEGS. STIRRUP SUPPORT BARS SHALL BE SPLICED WITH 2'-0" LAPS.
7. LEFT AND RIGHT END OF BEAM AS REFERENCED IN SCHEDULE IS DETERMINED AS FOLLOWS:





12 REINFORCED CONCRETE BEAM PLACEMENT DETAIL AND STIRRUP DIAGRAM

S-450 SCALE: 3/8" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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Sheet Title
REINF. CONC. BEAM DETAILS

S-450
Sheet Number

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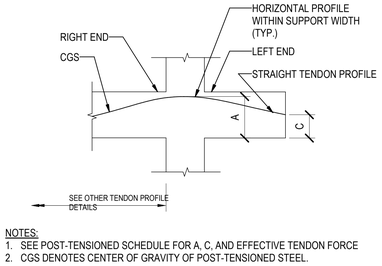
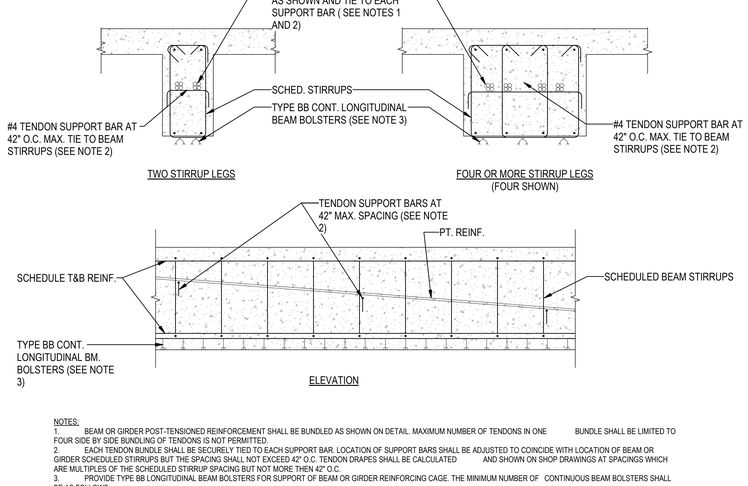
POST TENSIONED BEAM SCHEDULE															
BEAM MARK	WIDTH (INCHES)	DEPTH (INCHES)	FINAL FORCE (KIPS)	DRAPE HEIGHT			TOP BARS			BOTTOM BARS	FACE BARS (EACH FACE)	STIRRUPS			NOTES
				LEFT (INCHES)	CENTER (INCHES)	RIGHT (INCHES)	LEFT END	CENTER	RIGHT END			SIZE	TYPE	SPACING FROM EACH END	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-101	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-102	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-102	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-103	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-103	12"	24"					FROM LEFT	-	4#8F	4#6A		#4	S21	12"	
PTBM-201	16"	24"					2#6D	-	2#6D	4#7A		#4	S23	1@3, R@12	
PTBM-201	16"	24"					2#6D	-	2#6D	4#7A		#4	S23	1@3, R@12	
PTBM-201	16"	24"					2#6D	-	2#6D	4#7A		#4	S23	1@3, R@12	
PTBM-201	16"	24"					2#6D	-	2#6D	4#7A		#4	S23	1@3, R@12	



NOTES:
1. SEE POST-TENSIONED SCHEDULE FOR A, C, AND EFFECTIVE TENDON FORCE
2. CGS DENOTES CENTER OF GRAVITY OF POST-TENSIONED STEEL.

19 POST-TENSIONED TENDON CGS PROFILE

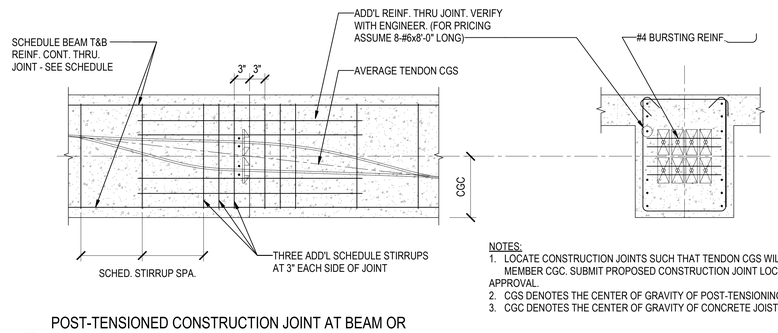
S-451 SCALE: 3/4" = 1'-0"



NOTES:
1. BEAM OR GIRDER POST-TENSIONED REINFORCEMENT SHALL BE BUNDLED AS SHOWN ON DETAIL. MAXIMUM NUMBER OF TENDONS IN ONE BUNDLE SHALL BE LIMITED TO FOUR SIDE BY SIDE BUNDLING OF TENDONS IS NOT PERMITTED.
2. EACH TENDON BUNDLE SHALL BE SECURELY TIED TO EACH SUPPORT BAR. LOCATION OF SUPPORT BARS SHALL BE ADJUSTED TO COINCIDE WITH LOCATION OF BEAM OR GIRDER SCHEDULED STIRRUPS BUT THE SPACING SHALL NOT EXCEED 42" O.C. TENDON DRAPES SHALL BE CALCULATED AND SHOWN ON SHOP DRAWINGS AT SPACINGS WHICH ARE MULTIPLES OF THE SCHEDULED STIRRUP SPACING BUT NOT MORE THEN 42" O.C.
3. PROVIDE TYPE BB LONGITUDINAL BEAM BOLSTERS FOR SUPPORT OF BEAM OR GIRDER REINFORCING CAGE. THE MINIMUM NUMBER OF CONTINUOUS BEAM BOLSTERS SHALL BE AS FOLLOWS:
   a. WIDTH < 24" TWO
   b. 24" < WIDTH < 36" THREE
   c. 36" < WIDTH < 48" FOUR
   d. 48" < WIDTH < 60" FIVE
   -
   -
   -

16 POST-TENSIONED BEAM OR GIRDER TENDON SUPPORT

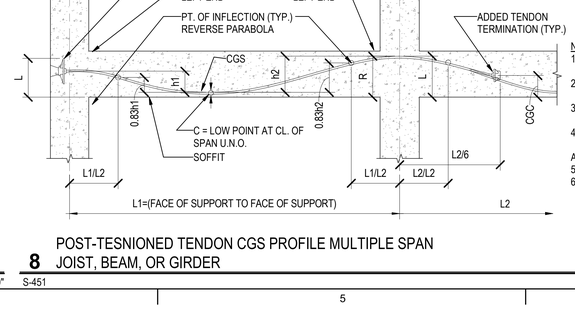
S-451 SCALE: 3/4" = 1'-0"



NOTES:
1. LOCATE CONSTRUCTION JOINTS SUCH THAT TENDON CGS WILL COINCIDE WITH MEMBER CGC. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATION TO ENGINEER FOR APPROVAL.
2. CGS DENOTES THE CENTER OF GRAVITY OF POST-TENSIONING STEEL.
3. CGC DENOTES THE CENTER OF GRAVITY OF CONCRETE JOIST, BEAM, OR GIRDER

7 POST-TENSIONED CONSTRUCTION JOINT AT BEAM OR GIRDER

S-451 SCALE: 3/4" = 1'-0"



NOTES:
1. SEE POST-TENSIONED SCHEDULE FOR L = "LEFT", C = "CENTER", R = "RIGHT", AND EFFECTIVE TENDON FORCES.
2. REFER TO BAR PLACEMENT DIAGRAM FOR DEFINITION OF MEMBER RIGHT AND LEFT ENDS.
3. CGS DENOTES THE CENTER OF GRAVITY OF POST-TENSIONING STEEL.
4. CGC DENOTES THE CENTER OF GRAVITY OF CONCRETE JOIST, BEAM, OR GIRDER. CONSIDER T-BEAM ACTION WHERE APPROPRIATE.
5. h1 = A-B h2 = C-B
6. REINFORCING NOT SHOWN FOR CLARITY.

8 POST-TESNIONED TENDON CGS PROFILE MULTIPLE SPAN JOIST, BEAM, OR GIRDER

S-451 SCALE: 3/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
PT BEAM SCHEDULE AND DETAILS

S-451
Sheet Number

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METAL STUD PACK SCHEDULE - HOTEL												
COLUMN MK. / # OF LEVELS SUPPORTED	SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10	SP-11	SP-12
ROOF	-	-	-	-	-	-	-	-	-	-	-	-
ROOF + 1	-	-	-	-	-	-	-	-	-	-	-	-
ROOF + 2	-	-	-	-	-	-	-	-	-	-	-	-
ROOF + 3	-	-	-	-	-	-	-	-	-	-	-	-

METAL STUD PACK SCHEDULE - HOTEL												
COLUMN MK. / # OF LEVELS SUPPORTED	SP-13	SP-14	SP-15	SP-16	SP-17	SP-18	SP-19	SP-20	SP-21	SP-22	SP-23	SP-24
ROOF	-	-	-	-	-	-	-	-	-	-	-	-
ROOF + 1	-	-	-	-	-	-	-	-	-	-	-	-
ROOF + 2	-	-	-	-	-	-	-	-	-	-	-	-
ROOF + 3	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
1. LOADS IN SCHEDULE ARE IN KIPS.
2. SCHEDULE GIVES FACTORED LOADS.
3. SCHEDULE SHOULD BE READ FROM TOP DOWN.

1 METAL STUD PACK SCHEDULE - HOTEL

S-470 SCALE: 1 1/2" = 1'-0"

METAL STUD WALL SCHEDULE - HOTEL												
WALL MK. / # OF LEVELS SUPPORTED	W-01	W-02	W-03	W-04	W-05	W-06	W-07	W-08	W-09	W-10	W-11	W1-12
ROOF	1.4 klf	2.6 klf	1.3 klf	2.3 klf	0.2 klf	2.3 klf	1.3 klf	-	-	-	-	-
ROOF + 1	2.7 klf	5.3 klf	4.7 klf	4.5 klf	0.5 klf	4.5 klf	4.7 klf	-	-	-	-	-
ROOF + 2	4.1 klf	8.1 klf	6.9 klf	6.9 klf	0.8 klf	6.9 klf	7.41 klf	-	-	-	-	-
ROOF + 3	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
1. LOADS IN WALL SCHEDULE ARE FACTORED LOADS IN K/FT.
2. OUT OF PLANE WIND LOADS ARE NOT GIVEN IN THIS SCHEDULE. FOR EXTERIOR WALLS DESIGNS, WIND LOADS MUST BE TAKEN INTO ACCOUNT BY THE SPECIALTY ENGINEER.
3. SCHEDULE SHOULD BE READ FROM TOP DOWN.

2 METAL WALL STUD (W##) SCHEDULE - HOTEL

S-470 SCALE: 1 1/2" = 1'-0"

SHEAR WALL SCHEDULE

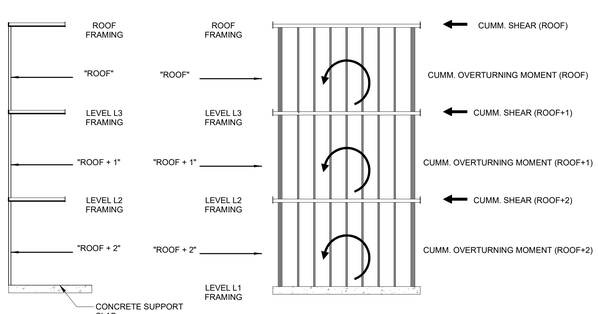
	MARK / LEVELS SUPPORTED	SW-01		SW-02		SW-02A		SW-02B		SW-03		SW-04		SW-04A		SW-04B		SW-04C		SW-04D	
		WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC
ULTIMATE CUMULATIVE SHEAR FORCE (PLF)	ROOF	580	240	600	250	-	-	-	-	600	250	-	-	580	240	230	10	-	-	-	-
	ROOF + 1	780	520	770	520	-	-	-	-	780	520	780	520	-	-	-	-	-	-	-	-
	ROOF + 2	1080	920	-	-	940	800	740	630	1090	930	-	-	-	-	-	-	940	800	740	630
ULTIMATE CUMULATIVE MOMENT (K-FT)	ROOF	113	48	161	68	-	-	-	-	181	76	-	-	116	49	10	4	-	-	-	-
	ROOF + 1	324	189	370	208	-	-	-	-	415	232	334	192	-	-	-	-	-	-	-	-
	ROOF + 2	678	490	-	-	414	280	205	139	809	569	-	-	-	-	-	-	388	270	195	136

	MARK / LEVELS SUPPORTED	SW-05		SW-06A		SW-06B		SW-07		SW-07A		SW-07B		SW-08		SW-09		SW-11		SW-12	
		WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC
ULTIMATE CUMULATIVE SHEAR FORCE (PLF)	ROOF	600	250	620	250	520	210	860	340	-	-	-	-	850	340	940	370	350	360	350	370
	ROOF + 1	770	520	810	510	670	430	-	-	890	560	750	480	1070	680	1240	790	490	810	490	810
	ROOF + 2	1080	920	1050	860	830	680	-	-	1140	930	910	740	1420	1160	1600	1310	610	1340	610	1340
ULTIMATE CUMULATIVE MOMENT (K-FT)	ROOF	160	68	91	37	49	20	232	93	-	-	-	-	256	102	160	64	64	68	66	69
	ROOF + 1	370	207	210	112	112	60	-	-	355	225	178	113	578	307	493	277	154	217	156	220
	ROOF + 2	720	507	395	263	205	136	-	-	556	389	289	195	1090	725	1012	700	288	512	293	520

	MARK / LEVELS SUPPORTED	SW-13		SW-14		SW-15		SW-16		SW-17		SW-18	
		WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC	WIND	SEISMIC
ULTIMATE CUMULATIVE SHEAR FORCE (PLF)	ROOF	350	370	350	370	360	370	360	370	360	370	360	370
	ROOF + 1	490	810	490	810	500	810	500	810	500	810	500	810
	ROOF + 2	610	1340	610	1340	630	1340	780	1340	630	1340	630	1340
ULTIMATE CUMULATIVE MOMENT (K-FT)	ROOF	65	69	65	69	67	69	65	66	67	68	66	68
	ROOF + 1	155	220	156	220	160	220	155	212	159	218	158	216
	ROOF + 2	291	518	292	520	300	520	324	502	298	517	295	511

NOTES:

1. CUMMULATIVE SHEAR LOADS SHOWN IN THE SCHEDULE ABOVE ARE IN POUNDS PER LINEAR FOOT (LBS/FT). CUMMULATIVE MOMENT FORCES ARE IN KIPS-FEET (K-FT)
2. THE SCHEDULE SHOULD BE READ FROM TOP (ROOF) TO BOTTOM (FOUNDATION). REFERENCE GRAPHICAL BUILDING SECTIONS TO THE RIGHT FOR CLARIFICATION.
3. WIND LOADS (W) SHOWN IN THE SCHEDULE HAVE BEEN CALCULATED USING ASCE 7-10 AND ARE FACTORED ULTIMATE LOADS (1.0*W). FACTORED ULTIMATE WIND LOADS ARE TO BE USED FOR LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED WIND LOADS SHOULD BE MULTIPLIED BY 0.60.
4. SEISMIC LOADS (EQ) SHOWN IN THE SCHEDULE HAVE BEEN CALCULATED USING ASCE 7-10 AND ARE FACTORED ULTIMATE LOADS (1.0*E). FACTORED ULTIMATE SEISMIC LOADS ARE TO BE USED FOR LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED SEISMIC LOADS SHOULD BE MULTIPLIED BY 0.70.
5. THE SEISMIC LOADS (EQ) PROVIDED IN THE SCHEDULE ABOVE HAVE BEEN DETERMINED WITH THE ASSUMPTION THAT THE LATERAL SYSTEM RESPONSE MODIFICATION FACTOR, "R", IS EQUAL TO 6.5. THAT "R" VALUE CORRESPONDS TO A BEARING WALL SYSTEM WITH LIGHT-FRAMED (COLD-FORMED STEEL) WALLS USING FLAT STRAP BRACING.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A LARGER VALUE FOR "R" IS APPLICABLE, IT WILL BE CONSERVATIVE TO USE THE FORCES SHOWN IN THE SHEAR WALL SCHEDULE.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A SMALLER VALUE FOR "R" IS APPLICABLE, IT WILL BE NECESSARY TO INCREASE THE VALUES FOR SEISMIC SHEAR IN THE SHEAR WALL SCHEDULE BY A FACTOR OF $6.5/R_s$, WHERE R_s IS THE "R" VALUE BEING USED BY THE SPECIALTY ENGINEER TO COMPUTE SEISMIC LOADS.
6. LATERAL SHEAR FORCES APPLIED TO SHEAR WALLS, AS WELL AS MOMENT OVERTURNING INDUCED BY SHEAR FORCES, HAVE BEEN SHOWN ON THE WALL ELEVATION GRAPHIC TO THE RIGHT.
7. LATERAL SHEAR FORCES ARE ASSUMED TO BE APPLIED UNIFORMLY ALONG THE LENGTH OF A GIVEN SHEAR WALL.
8. MOMENT OVETURNING FORCES ARE REPRESENTATIVE OF ONLY WIND FORCE (W) OR SEISMIC FORCE (EQ). OTHER LOADING, SUCH AS DEAD, LIVE AND SNOW LOADS, HAVE NOT BEEN INCLUDED.
   - DUE TO THE REVERSIBLE NATURE OF BOTH WIND (W) AND SEISMIC (EQ) LOADS, THE DIRECTION OF THE OVERTURNING MOMENT FORCE MAY BE CLOCKWISE OR COUNTERCLOCKWISE.
   - NET OVERTURNING MOMENT SHOULD BE CALCULATED USING THE APPROPRIATE LOAD COMBINATIONS FROM ASCE 7-10 AND/OR THE 2015 SOUTH CAROLINA BUILDING CODE. THIS CALCULATION SHOULD CONSIDER THE EFFECTS THAT GRAVITY LOADS HAVE ON NET OVERTURNING MOMENT.
   - NET OVERTURNING MOMENT MUST BE CONSIDERED IN THE DESIGN OF THE SHEAR WALL, THE CONNECTION OF THE SHEAR WALL FROM STORY TO STORY, AND THE CONNECTION OF THE SHEAR WALL TO THE CONCRETE SLAB UPON WHICH IT BEARS. THESE CONNECTIONS ARE TO BE WITHIN THE SCOPE OF THE SPECIALTY ENGINEER.



THREE STORY CONDITION

3 HOTEL SHEAR WALL (SW-##) SCHEDULE

S-470 SCALE: 12" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
METAL STUD SCHEDULES AND DETAILS

S-470
Sheet Number

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SHEAR WALL SCHEDULE - BUILDINGS AL & MC

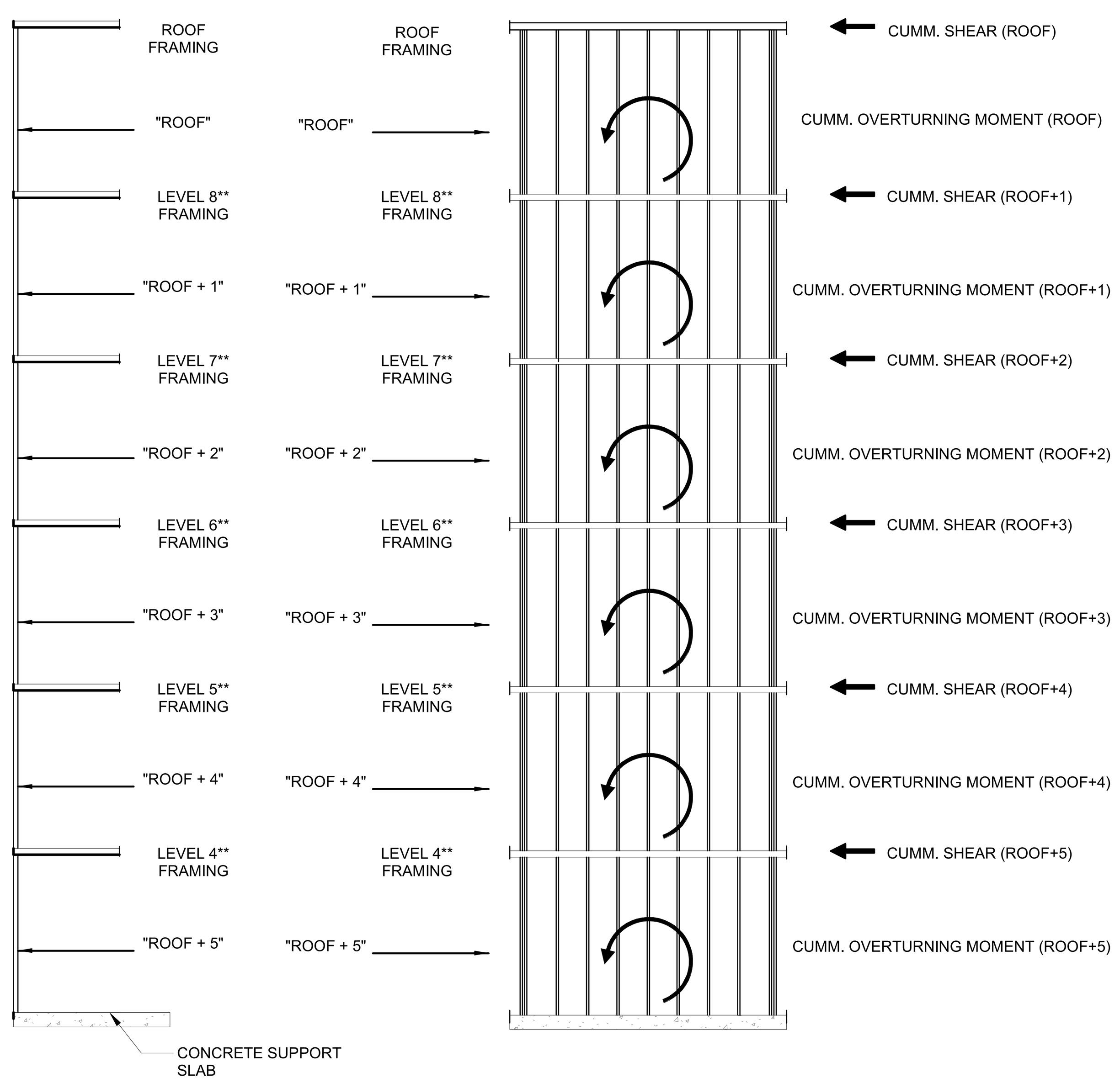
	LEVELS SUPPORTED \ MARK	SW-01 WIND	SW-01 SEISMIC	SW-02 WIND	SW-02 SEISMIC	SW-03 WIND	SW-03 SEISMIC	SW-04 WIND	SW-04 SEISMIC	SW-05 WIND	SW-05 SEISMIC	SW-06 WIND	SW-06 SEISMIC	SW-07 WIND	SW-07 SEISMIC	SW-08 WIND	SW-08 SEISMIC	SW-09 WIND	SW-09 SEISMIC	SW-10 WIND	SW-10 SEISMIC
ULTIMATE CUMULATIVE SHEAR FORCE (PLF)	ROOF	232	95	233	93	387	100	235	95	249	99	230	102	451	114	402	107	408	108	338	89
	ROOF + 1	361	181	362	177	601	191	365	181	386	188	356	194	699	216	624	204	634	205	524	169
	ROOF + 2	475	258	477	252	792	272	481	258	509	268	469	277	921	308	823	291	835	293	691	241
	ROOF + 3	585	335	589	328	979	354	595	335	629	348	581	360	1139	400	1017	379	1033	381	855	313
	ROOF + 4	698	413	700	403	1164	436	707	412	749	429	690	442	1354	493	1209	466	1227	469	1015	386
	ROOF + 5	779	490	781	479	1344	517	786	490	834	509	783	525	1563	581	1396	553	1417	557	1173	458
ULTIMATE CUMULATIVE MOMENT (K-FT)	ROOF	30.7	12.5	62.9	25.0	37.2	9.6	15.5	6.3	17.9	7.1	15.1	6.7	29.7	7.5	26.5	7.1	31.9	8.4	66.9	17.6
	ROOF + 1	70.3	32.4	144.3	64.8	85.2	24.8	35.6	16.2	41.1	18.4	34.7	17.4	68.2	19.3	60.9	18.3	73.1	21.8	153.9	45.4
	ROOF + 2	112.6	60.7	251.5	121.5	148.6	46.6	62.1	30.3	71.6	34.4	60.5	32.6	118.8	36.3	106.1	34.3	127.3	40.8	267.5	85.1
	ROOF + 3	187.2	97.6	384.1	195.2	226.9	74.9	94.8	48.8	109.4	55.3	92.4	52.4	181.5	58.3	162.1	55.1	194.4	65.6	408.4	136.7
	ROOF + 4	241.0	143.0	541.6	285.9	320.0	109.7	133.7	71.4	154.3	81.0	130.4	76.7	256.0	85.4	228.6	80.7	274.2	96.1	575.9	200.3
	ROOF + 5	349.6	197.0	717.3	393.7	427.4	151.1	176.9	98.4	204.3	111.6	173.4	105.6	341.9	117.6	305.3	111.1	366.4	132.3	769.4	275.8

	LEVELS SUPPORTED \ MARK	SW-11 WIND	SW-11 SEISMIC	SW-12 WIND	SW-12 SEISMIC	SW-13 WIND	SW-13 SEISMIC	SW-14 WIND	SW-14 SEISMIC	SW-15 WIND	SW-15 SEISMIC	SW-16 WIND	SW-16 SEISMIC	SW-17 WIND	SW-17 SEISMIC	SW-18 WIND	SW-18 SEISMIC	SW-19 WIND	SW-19 SEISMIC	SW-20 WIND	SW-20 SEISMIC
ULTIMATE CUMULATIVE SHEAR FORCE (PLF)	ROOF	425	95	354	88	370	90	386	100	193	98	372	108	413	118	496	131	413	115	472	125
	ROOF + 1	659	181	549	166	574	170	599	190	300	187	577	205	641	223	769	248	641	219	732	238
	ROOF + 2	869	258	872	238	757	243	790	272	395	267	760	293	845	319	1013	355	845	312	965	340
	ROOF + 3	1074	335	1188	309	936	316	977	353	488	348	940	381	1044	415	1253	461	1045	406	1193	442
	ROOF + 4	1276	412	1499	380	1112	389	1160	435	580	427	1117	468	1240	511	1489	567	1241	500	1418	544
	ROOF + 5	1474	490	1803	451	1285	462	1340	516	670	507	1290	556	1433	607	1720	674	1433	594	1638	646
ULTIMATE CUMULATIVE MOMENT (K-FT)	ROOF	50.9	11.4	27.6	6.8	24.4	5.9	76.5	19.8	38.2	19.4	44.6	12.9	22.3	6.6	29.7	7.8	37.1	10.4	42.5	11.3
	ROOF + 1	116.9	29.5	63.3	17.6	56.0	15.3	175.3	51.2	87.7	50.3	102.3	33.4	51.2	16.4	68.2	20.2	85.2	26.8	97.4	29.1
	ROOF + 2	203.8	55.2	120.0	33.1	97.6	28.7	305.6	96.0	152.8	94.3	178.3	62.7	89.1	30.8	118.8	38.0	148.6	50.2	169.8	54.6
	ROOF + 3	311.2	88.7	197.2	53.2	149.1	46.1	466.8	154.3	233.4	151.5	272.3	100.7	136.1	49.4	181.5	61.1	226.9	80.6	259.3	87.7
	ROOF + 4	438.8	129.9	294.6	77.9	210.3	67.5	658.2	226.0	233.4	222.0	384.0	147.6	192.0	72.4	256.0	89.4	320.0	118.1	365.6	128.5
	ROOF + 5	586.2	178.9	411.8	107.2	280.9	92.9	879.3	311.2	439.6	305.6	513.0	203.4	256.4	99.7	341.9	123.1	427.5	162.7	488.5	177.0

	LEVELS SUPPORTED \ MARK	SW-21 WIND	SW-21 SEISMIC	SW-22 WIND	SW-22 SEISMIC	SW-23 WIND	SW-23 SEISMIC	SW-24 WIND	SW-24 SEISMIC	SW-25 WIND	SW-25 SEISMIC	SW-26 WIND	SW-26 SEISMIC	SW-27 WIND	SW-27 SEISMIC	SW-28 WIND	SW-28 SEISMIC	SW-29 WIND	SW-29 SEISMIC	SW-30 WIND	SW-30 SEISMIC
ULTIMATE CUMULATIVE SHEAR FORCE (PLF)	ROOF	451	122	183	89	177	86	183	89	177	85	183	90	374	92	361	91	183	88	182	88
	ROOF + 1	700	232	284	169	275	163	283	169	274	161	284	170	581	174	561	172	284	167.3	282	167
	ROOF + 2	923	330	374	242	362	233	373	241	361	230	374	243	766	249	739	246	373	239	372	238
	ROOF + 3	1141	430	462	315	448	303	462	314	447	299	463	316	947	323	914	320	462	311	460	309
	ROOF + 4	1356	529	550	387	532	373	549	386	531	368	550	389	1125	398	1086	393	549	382	547	381
	ROOF + 5	1566	628	635	460	614	442	634	459	613	437	635	462	1299	472	1254	467	634	454	631	452
ULTIMATE CUMULATIVE MOMENT (K-FT)	ROOF	108.3	29.2	16.5	8.0	11.7	5.7	17.5	8.5	9.6	4.5	32.9	16.1	58.4	14.3	52.0	13.1	17.5	8.5	19.6	9.5
	ROOF + 1	248.4	75.5	37.8	20.7	26.8	14.6	40.2	22.0	21.9	11.8	75.5	41.6	75.5	36.9	119.4	33.7	40.2	21.8	45.1	24.5
	ROOF + 2	433.0	141.5	65.8	38.9	46.7	27.4	70.1	41.3	38.1	22.2	131.6	78.1	99.5	69.2	208.1	63.2	70.1	40.9	78.5	45.9
	ROOF + 3	661.2	227.4	100.5	62.4	71.3	44.1	107.0	66.4	58.2	35.6	201.0	125.4	123.1	111.2	317.8	101.6	107.0	65.8	119.9	73.7
	ROOF + 4	932.4	333.1	141.7	91.5	100.5	64.5	150.9	97.3	82.1	52.1	283.4	183.7	146.2	162.9	448.1	148.8	150.9	96.4	169.1	108.0
	ROOF + 5	1245.7	458.7	189.3	125.9	134.3	88.9	201.5	133.9	109.7	71.8	379.6	253.0	168.9	224.3	598.6	204.8	201.5	132.7	225.9	148.7

NOTES:

1. CUMMULATIVE SHEAR LOADS SHOWN IN THE SCHEDULE ABOVE ARE IN POUNDS PER LINEAR FOOT (LBS/FT). CUMMULATIVE MOMENT FORCES ARE IN KIPS-FEET (K-FT)
2. THE SCHEDULE SHOULD BE READ FROM TOP (ROOF) TO BOTTOM (PODIUM). REFERENCE GRAPHICAL BUILDING SECTIONS TO THE RIGHT FOR CLARIFICATION.
3. WIND LOADS (W) SHOWN IN THE SCHEDULE HAVE BEEN CALCULATED USING ASCE 7-10 AND ARE FACTORED ULTIMATE LOADS (1.0*W). FACTORED ULTIMATE WIND LOADS ARE TO BE USED FOR LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED WIND LOADS SHOULD BE MULTIPLIED BY 0.60.
4. SEISMIC LOADS (EQ) SHOWN IN THE SCHEDULE HAVE BEEN CALCULATED USING ASCE 7-10 AND ARE FACTORED ULTIMATE LOADS (1.0*E). FACTORED ULTIMATE SEISMIC LOADS ARE TO BE USED FOR LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED SEISMIC LOADS SHOULD BE MULTIPLIED BY 0.70.
5. THE SEISMIC LOADS (EQ) PROVIDED IN THE SCHEDULE ABOVE HAVE BEEN DETERMINED WITH THE ASSUMPTION THAT THE LATERAL SYSTEM RESPONSE MODIFICATION FACTOR, "R", IS EQUAL TO 6.5. THAT "R" VALUE CORRESPONDS TO A BEARING WALL SYSTEM WITH LIGHT-FRAMED (COLD-FORMED STEEL) WALLS USING FLAT STRAP BRACING.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A LARGER VALUE FOR "R" IS APPLICABLE, IT WILL BE CONSERVATIVE TO USE THE FORCES SHOWN IN THE SHEAR WALL SCHEDULE.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A SMALLER VALUE FOR "R" IS APPLICABLE, IT WILL BE NECESSARY TO INCREASE THE VALUES FOR SEISMIC SHEAR IN THE SHEAR WALL SCHEDULE BY A FACTOR OF $6.5/R_A$, WHERE R_A IS THE "R" VALUE BEING USED BY THE SPECIALTY ENGINEER TO COMPUTE SEISMIC LOADS.
6. LATERAL SHEAR FORCES APPLIED TO SHEAR WALLS, AS WELL AS MOMENT OVERTURNING INDUCED BY SHEAR FORCES, HAVE BEEN SHOWN ON THE WALL ELEVATION GRAPHIC TO THE RIGHT.
7. LATERAL SHEAR FORCES ARE ASSUMED TO BE APPLIED UNIFORMLY ALONG THE LENGTH OF A GIVEN SHEAR WALL.
8. MOMENT OVETURNING FORCES ARE REPRESENTATIVE OF ONLY WIND FORCE (W) OR SEISMIC FORCE (EQ). OTHER LOADING, SUCH AS DEAD, LIVE AND SNOW LOADS, HAVE NOT BEEN INCLUDED.
   - DUE TO THE REVERSIBLE NATURE OF BOTH WIND (W) AND SEISMIC (EQ) LOADS, THE DIRECTION OF THE OVERTURNING MOMENT FORCE MAY BE CLOCKWISE OR COUNTERCLOCKWISE.
   - NET OVERTURNING MOMENT SHOULD BE CALCULATED USING THE APPROPRIATE LOAD COMBINATIONS FROM ASCE 7-10 AND/OR THE 2012 INTERNATIONAL BUILDING CODE. THIS CALCULATION SHOULD CONSIDER THE EFFECTS THAT GRAVITY LOADS HAVE ON NET OVERTURNING MOMENT.
   - NET OVERTURNING MOMENT MUST BE CONSIDERED IN THE DESIGN OF THE SHEAR WALL, THE CONNECTION OF THE SHEAR WALL FROM STORY TO STORY, AND THE CONNECTION OF THE SHEAR WALL TO THE CONCRETE SLAB UPON WHICH IT BEARS. THESE CONNECTIONS ARE TO BE WITHIN THE SCOPE OF THE SPECIALTY ENGINEER.



SIX STORY CONDITION

20 HOTEL SHEAR WALL (SW-##) SCHEDULE
S-471

SCALE: 12" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
BRACING SECTIONS AND DETAILS

S-471
Sheet Number

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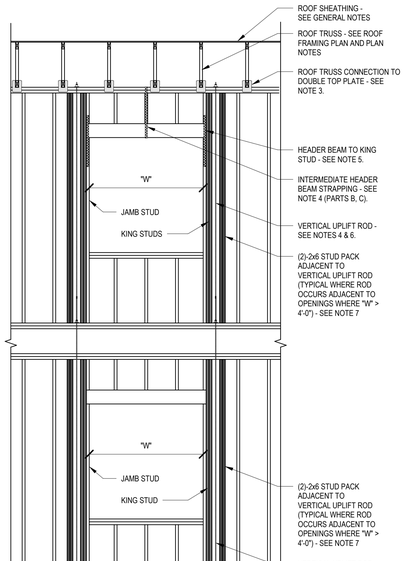
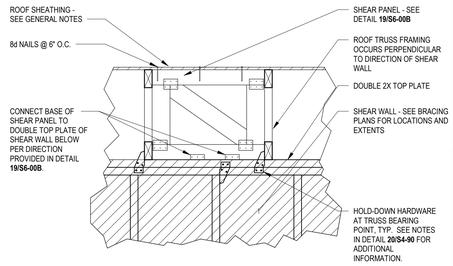


1. SEE **S1.##** SERIES FOR ROOF FRAMING PLANS.
2. SEE **S4.0#** SERIES FOR ROOF FRAMING SECTIONS AND DETAILS.
3. ALL ROOF TRUSSES TO BE MECHANICALLY FASTENED AT *ALL* BEARING POINTS WITH ONE (1) SIMPSON STRONG-TIE "H2.5A" HURRICANE TIE.
   - ** SEE ROOF FRAMING PLAN FOR DESIGNATION OF WALLS THAT ARE BEARING WALLS.
   - ** ROOF TRUSSES WILL TYPICALLY BE SUPPORTED EITHER:
     - a) BY CORRIDOR WALLS AND EXTERIOR WALLS.
     - b) ALTERNATE ARRANGEMENT OF WALLS IN ATYPICAL SECTIONS OF THE BUILDING. SEE FRAMING PLANS.
4. PROVIDE VERTICAL UPLIFT RODS @ 4'-0" O.C. IN SOLID SECTIONS OF WALL.
   - A. AT OPENINGS IN THE WALL, "W" ≤ 4'-0", PROVIDE UPLIFT ROD AT EACH SIDE OF OPENING.
   - B. AT OPENINGS IN THE WALL, "W" ≤ 6'-6", PROVIDE UPLIFT ROD AT EACH SIDE OF OPENING. ADDITIONALLY, PROVIDE INTERMEDIATE STRAPPING AT MID-SPAN OF HEADER BEAM WITH CS16. STRAPPING SHALL WRAP OVER TOP PLATE AND BENEATH BEAM SUCH THAT STRAPPING HAS 11" LENGTH NAILED AT TOP PLATE AND BEAM.
   - C. AT OPENINGS IN THE WALL, "W" ≤ 9'-8", PROVIDE UPLIFT ROD AT EACH SIDE OF OPENING. ADDITIONALLY, PROVIDE INTERMEDIATE STRAPPING AT TWO LOCATIONS ALONG THE LENGTH OF THE HEADER BEAM (1/3 POINTS) WITH CS16. STRAPPING SHALL WRAP OVER TOP PLATE AND BENEATH BEAM SUCH THAT STRAP HAS 11" LENGTH NAILED AT TOP PLATE AND BEAM.
5. WHERE HEADER BEAM REQUIRES INTERMEDIATE STRAPPING (PER NOTE 4 ABOVE), ATTACH ENDS OF HEADER BEAM TO JAMB STUD WITH CS16 STRAPPING. STRAPPING SHALL EXTEND A MINIMUM OF 11" ABOVE AND BELOW HEADER BEAM BEARING.
6. VERTICAL UPLIFT RODS SHALL EXTEND VERTICALLY THRU TWO (2) FLOOR CAVITIES AND TERMINATE AT THE UNDERSIDE OF THE DOUBLE TOP PLATE OF THE STUD WALL BELOW. ATTACHMENT OF THE UPLIFT RODS AT THE DOUBLE TOP PLATE TO BE PER DETAILS ON SHEET **S6.00E**.
   - A. GC TO PROVIDE A MINIMUM OF ONE (1) TAKE-UP DEVICE PER ROD TO ACCOUNT FOR SLACK IN THE ROD RESULTING FROM VERTICAL SHRINKAGE OF WOOD FRAMING.
7. PROVIDE ADDITIONAL (2)-2x6 STUD PACK ADJACENT TO EACH UPLIFT ROD POSITIONED ADJACENT TO OPENINGS IN WALL WHERE "W" > 4'-0".
8. PROVIDE VERTICAL UPLIFT ROD AT THE ENDS OF ALL GIRDER TRUSSES (GT). VERTICAL UPLIFT RODS SHALL EXTEND VERTICALLY THRU THREE (3) FLOOR CAVITIES AND TERMINATE AT THE UNDERSIDE OF THE DOUBLE TOP PLATE OF THE STUD WALL BELOW. ATTACHMENT OF THE UPLIFT RODS AT THE DOUBLE TOP PLATE TO BE PER DETAILS ON SHEET **S6.00E**.
   - A. GC TO PROVIDE A MINIMUM OF ONE (1) TAKE-UP DEVICE PER ROD TO ACCOUNT FOR SLACK IN THE ROD RESULTING FROM VERTICAL SHRINKAGE OF WOOD FRAMING.

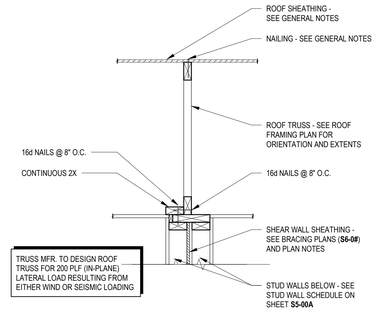
20 ROOF ANCHORAGE AND TIE-DOWN NOTES

S-490 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"



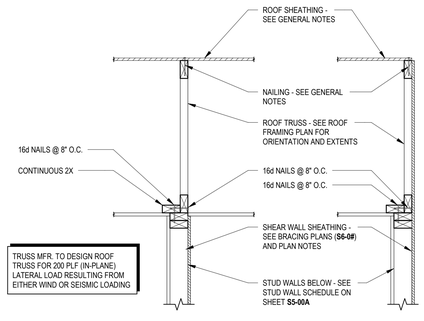
1 SHEAR PANEL REQUIREMENT AT ROOF FRAMING

S-490 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"



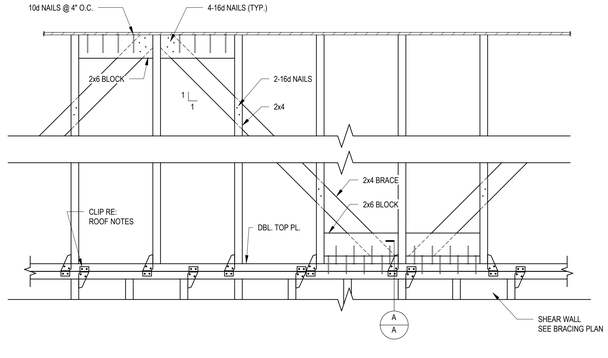
2 SECTION @ PARTY WALL

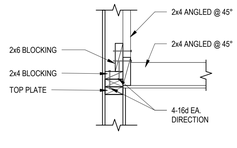
S-490 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"



3 ROOF TRUSS @ SHEAR WALL

S-490 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"





PARTIAL SECTION A

8 BRACING ALONG INTERIOR ROOF TRUSS BEARING LOCATIONS

S-490 E+M TYPICAL DETAIL SCALE: 1" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
WOOD ROOF FRAMING SECTIONS AND DETAILS

S-490
Sheet Number

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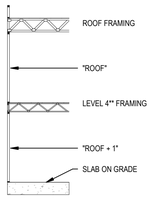
BUILDING STUD WALL SCHEDULE							
WALL MK. / # OF LEVELS SUPPORTED **	AA	BB	CC	DD	EE	FF	
ROOF	2x4 @ 16"	2x4 @ 12"	2x4 @ 12"	2x6 @ 16"	2x6 @ 12"	2x6 @ 12"	
ROOF + 1	2x4 @ 16"	2x4 @ 12"	(2)-2x4 @ 12"	2x6 @ 16"	2x6 @ 12"	2x6 @ 12"	

NOTES:

1. ALL LOAD BEARING STUDS SHALL BE: SPRUCE PINE FIR, GRADE: NO.2, WITH THE FOLLOWING MINIMUM PROPERTIES:
   - Fb=875 psi
   - Fc=1150 psi
   - E=1400 ksi
2. CRIPPLE STUDS SHALL BE PROVIDED AT ALL FLOORS CAVITIES BELOW LOAD BEARING WALLS WHERE LOAD BEARING LADDER TRUSSES ARE NOT PROVIDED, E.G. INTERIOR LOAD BEARING WALLS, LOAD BEARING PARTY WALLS, ETC. CRIPPLE STUDS SHALL BE INSTALLED PER THE REQUIREMENTS OF 18 AND 19 ON S5-00B.
3. ALL VOLUME AREAS SHALL BE BALLOON FRAMED AS FOLLOWS UNLESS NOTED OTHERWISE IN THE STRUCTURAL FRAMING PLANS: 2x4 @ 16" O.C. UP TO 10 FT, 2x6 @ 16" O.C. UP TO 14 FT., (2) 2x6 @ 16" O.C. UP TO 18 FT.
4. ALL SHEAR WALLS SHALL HAVE STUDS @ 16" O.C. MAX.
5. ALL PLUMBING WALL SHALL HAVE 2x6 @ 16" U.N.O.
6. NON-LOAD BEARING INTERIOR PARTITIONS - SEE ARCH. DWGS.
7. ALL NON-UNIT BEARING EXTERIOR WALLS SHALL BE TYPE "DD".
8. ALL NON-UNIT BEARING CORRIDOR WALLS SHALL BE TYPE "BB" U.N.O..
9. ALL NON-UNIT BEARING CORRIDOR WALLS LOCATED ADJACENT TO CMU WALLS SHALL BE TYPE "BB" U.N.O. THESE WALLS SHALL BE FRAMED FROM STUDS WITH A LENGTH EQUAL TO THE FULL HIEGHT OF THE WALL. SEE DETAIL FOR ADDITIONAL INFORMATION.
10. ALL UNIT BEARING EXTERIOR WALLS SHALL BE TYPE "DD" U.N.O.
11. IT IS RECOMMENDED THAT THE STUDS @ EVERY LEVEL BE TEMPORARILY BLOCKED OR BRACED @ MID HEIGHT.
12. ** DENOTES: QUANTITY OF LEVELS OF WOOD FRAMING ABOVE THE CONCRETE SUPPORT SLAB (I.E. SLAB-ON-GRADE OR PODIUM).
13. ALL LOAD BEARING WALLS SUPPORTING ROOF FRAMING SHALL BE FRAMED WITH 2x4 @ 16" O.C. UNLESS NOTED OTHERWISE.
14. WHERE ARCHITECTURAL DRAWINGS INDICATE 2x6 WALLS, PROVIDE 2x6 STUDS IN LIEU OF THE 2x4 STUDS INDICATED IN THE WALL SCHEDULE. 2x6 STUDS MAY BE SUBSTITUTED FOR 2x4 STUDS PER THE EQUIVALENCY TABLE BELOW. THIS TABLE MAY NOT BE USED IN REVERSE TO SUBSTITUTE 2x4 STUDS IN LIEU OF SCHEDULED 2x6 STUDS.

2x4 STUD WALL PER WALL SCHED.	2x6 STUD WALL EQUIVALENT
2x4 @ 16" O.C.	2x6 @ 16" O.C.
2x4 @ 12" O.C.	2x6 @ 16" O.C.
(2) 2x4 @ 16" O.C.	2x6 @ 16" O.C.
(2) 2x4 @ 12" O.C.	2x6 @ 12" O.C.
(3) 2x4 @ 16" O.C.	(2) 2x6 @ 16" O.C.
(3) 2x4 @ 12" O.C.	(2) 2x6 @ 16" O.C.



BUILDING FLOOR LEVEL SCHEMATIC (NTS)

18 STUD SCHEDULE AND NOTES

S-500A E+M TYPICAL DETAIL SCALE: 1 1/2" = 1'-0"

BEAM/HEADER MARK	MATERIAL TYPE	NO. OF PLYS	PLY WIDTH	DEPTH
B1	DIMENSION LUMBER	2	1 1/2"	7 1/4"
B2	DIMENSION LUMBER	3	1 1/2"	7 1/4"
B3	DIMENSION LUMBER	2	1 1/2"	9 1/4"
B4	DIMENSION LUMBER	3	1 1/2"	9 1/4"
B5	DIMENSION LUMBER	2	1 1/2"	11 1/4"
B6	DIMENSION LUMBER	3	1 1/2"	11 1/4"
B7	DIMENSION LUMBER	4	1 1/2"	11 1/4"
B9	MICROLLAM ®	1	1 3/4"	9 1/2"
B10	MICROLLAM ®	2	1 3/4"	9 1/2"
B11	MICROLLAM ®	3	1 3/4"	9 1/2"
B11a	MICROLLAM ®	4	1 3/4"	9 1/2"
B12	MICROLLAM ®	2	1 3/4"	11 7/8"
B13	MICROLLAM ®	3	1 3/4"	11 7/8"
B13a	MICROLLAM ®	4	1 3/4"	11 7/8"
B14	MICROLLAM ®	2	1 3/4"	14"
B15	MICROLLAM ®	3	1 3/4"	14"
B16	MICROLLAM ®	2	1 3/4"	16"
B17	MICROLLAM ®	3	1 3/4"	16"
B18	MICROLLAM ®	2	1 3/4"	18"
B19	MICROLLAM ®	3	1 3/4"	18"
B20*	MICROLLAM ®	4	1 3/4"	18"
B21	GLU-LAM	1	3 1/2"	9 5/8"
B22	GLU-LAM	1	5 1/2"	9 5/8"
B23	GLU-LAM	1	3 1/2"	11"
B24	GLU-LAM	1	5 1/2"	11"
B25	GLU-LAM	1	3 1/2"	12 3/8"
B26	GLU-LAM	1	3 1/2"	13 3/4"
B27	GLU-LAM	1	5 1/2"	13 3/4"
B28	GLU-LAM	1	3 1/2"	17 7/8"
B29	GLU-LAM	1	5 1/2"	17 7/8"
B30	GLU-LAM	1	6 3/4"	17 7/8"

NOTES:

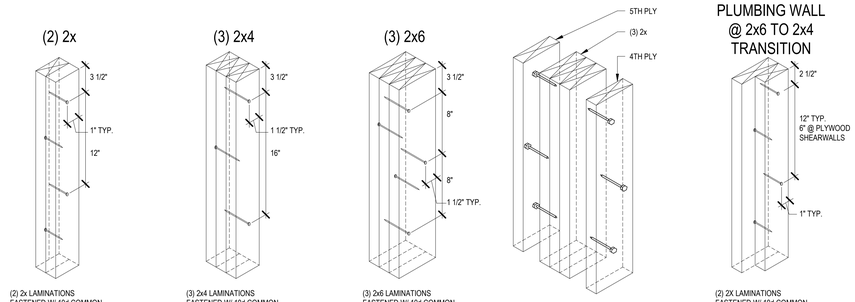
1. DIMENSION LUMBER SHALL BE SOUTHERN YELLOW PINE, NO. 2.
2. SEE GENERAL NOTES FOR MICROLLAM (LVL) PROPERTIES
3. INDIVIDUAL PLIES WITHIN MULTI-PLY BEAMS SHALL BE LAMINATED TOGETHER PER THE RECOMMENDATIONS SHOWN IN DETAIL **4/S-500A**.
4. * * DENOTES SPECIAL BOLTING PATTERN FOR LAMINATION. SEE DETAIL **2/S-500A** FOR CLARIFIATION.

20 BEAM AND HEADER SCHEDULE

S-500A E+M TYPICAL DETAIL SCALE: 1 1/2" = 1'-0"

COLUMN MK. / # OF LEVELS SUPPORTED	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
ROOF	3-2X4	3-2X6	-	-	2-2x6	2-2x6	2-2x4	-	3-2x4		3-2X6	
ROOF + 1	3-2X4	3-2X6	3-2x4	5-2x4	3-2X6	2-2x6	2-2x4	3-2x4	3-2x4	4-2X6	4-2X6	

COLUMN MK.	C101	C102	C103	C104	C105	C106	C107	C108	C109	C110	C111	C112	C113
COLUMN OCCURS ONLY AT LEVELS INDICATED IN PLAN	2-2X4	3-2X4	4-2X4	5-2X4	2-2X6	3-2X6	4-2X6	5-2X6	3.5"x6.875" GLU-LAM	3.5"x8.25" GLU-LAM	5.5"x8.25" GLU-LAM	5.5"x9.625" GLU-LAM	6X6 SYP



(2) 2x LAMINATIONS FASTENED W/ 10d COMMON WIRE NAILS @ 12" O.C. EACH FACE STAGGERED (ø=0.148", L=3")

(3) 2x4 LAMINATIONS FASTENED W/ 10d COMMON WIRE NAILS @ 16" O.C. EACH FACE STAGGERED (ø=0.148", L=3")

(3) 2x6 LAMINATIONS FASTENED W/ 10d COMMON WIRE NAILS @ 8" O.C. EACH FACE STAGGERED (ø=0.148", L=3")

FASTEN 4TH AND 5TH LAMINATIONS W/ 1 ROW OF 8 GAx3 1/2" WOOD SCREWS STAGGERED

(2) 2x LAMINATIONS FASTENED W/ 10d COMMON WIRE NAILS @ 12" O.C. EACH FACE STAGGERED (ø=0.148", L=3")

NOTES:

1. ALL POSTS, BUILT-UP STUD COLUMNS AND STUD PACKS MUST ALIGN FLOOR-TO-FLOOR WITH SOLID BLOCKING AT FLOOR CAVITY AND CONTINUE TO FOUNDATION OR BEAM SUPPORT BELOW.
2. * DENOTES ENGINEERED LUMBER STUD AT EXTERIOR OPENING TAKING WIND LOAD. WIND STUDS NEEDED PER DETAIL IN 20/S5-00A.
3. ** DENOTES QUANTITY OF LEVELS OF WOOD FRAMING ABOVE THE CONCRETE SUPPORT SLAB (I.E. SLAB-ON-GRADE OR PODIUM).

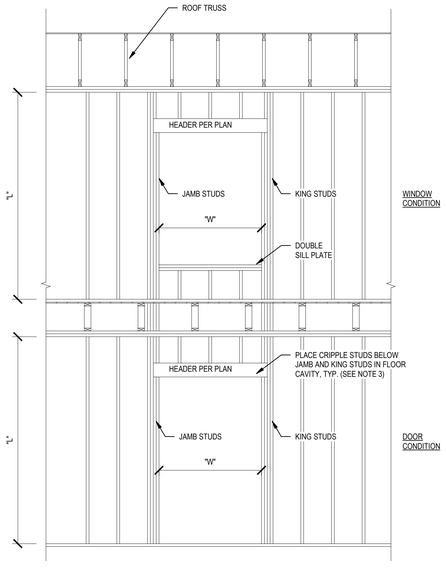
10 BUILT-UP COLUMN SCHEDULE

S-500A E+M TYPICAL DETAIL SCALE: 1 1/2" = 1'-0"

FLOOR LEVEL**	UP TO 3'-6" OPENING		UP TO 6'-6" OPENING	UP TO 10'-0" OPENING
	INTERIOR (UNIT)	INTERIOR (CORR)	EXTERIOR ONLY	EXTERIOR ONLY
ROOF		(1) 2x6 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB
		(1) 2x6 KING	(1) 2x6 KING	(1) 2x6 KING
ROOF + 1	(1) 2x4 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB
	(1) 2x4 KING	(1) 2x6 KING	(2) 2x6 KING	(2) 2x6 KING
ROOF + 2	(1) 2x4 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB
	(1) 2x4 KING	(1) 2x6 KING	(2) 2x6 KING	(2) 2x6 KING
ROOF + 3	(1) 2x4 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB
	(2) 2x4 KING	(2) 2x6 KING	(2) 2x6 KING	(3) 2x6 KING
ROOF + 4	(1) 2x4 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB	(1) 2x6 JAMB
	(3) 2x4 KING	(2) 2x6 KING	(3) 2x6 KING	(3) 2x6 KING

NOTES:

1. ** , SEE GRAPHIC IN DETAIL **18/S-500A** FOR CLARIFICATION ON "FLOOR LEVEL" TERMINOLOGY.
2. CRIPPLE STUDS SHALL BE PLACED BELOW JAMB AND KING STUDS WITHIN THE FLOOR CAVITY. QUANTITY OF CRIPPLE STUDS SHALL MATCH QUANTITY OF JAMB AND KING STUDS ABOVE.
3. WHERE 2x6 WALLS ARE REQUIRED PER ARCHITECTURAL DRAWINGS AND/OR S/S5-00A STUD SCHEDULE, USE 2x6 KING & JAMB STUDS IN LIEU OF 2x4'S.
4. USE 2x6 STUDS WHERE 2x6 POSTS, 3-PLY HEADERS OR 2x6 JAMB/KING STUDS ARE INDICATED.
5. WHERE COLUMNS ARE INDICATED AT HEADER SUPPORTS IN PLAN, PROVIDE QUANTITY OF KING PLUS JAMB STUDS INDICATED IN TABLE FOR OPENING SIZE.
6. SCHEDULES APPLY TO WALL OPENINGS INCLUDING DOORS, WINDOWS AND CASED OPENINGS ONLY. FLUSH BEAM SUPPORT POSTS SHALL BE CALLED OUT IN PLAN OR AS INDICATED IN NOTE 7 OF 1/S-500A.



12 JAMB/KING STUD SCHEDULE AT WALL OPENINGS (APPLIES TO ALL WALLS SUPPORTING FLOOR TRUSSES UNO)

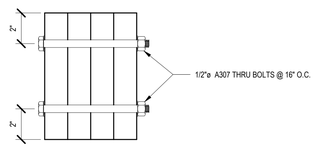
S-500A E+M TYPICAL DETAIL SCALE: 3/8" = 1'-0"

TYPICAL FLOOR FRAMING NOTES:

1. TRUSS MANUFACTURER TO COORDINATE LOCATION OF HORIZONTAL CHASES WITH MECHANICAL DRAWINGS.
2. SEE GENERAL NOTES (**S0-02**) FOR LUMBER SPECIES AND GRADE, UNLESS NOTED OTHERWISE.
3. SEE BUILDING PLAN FOR BEAM/HEADER TAGS, STUD FRAMING, ETC.
4. SEE **S4-0#** SERIES FOR TYPICAL FLOOR FRAMING DETAILS.
5. SEE DETAIL **12/S5-00B** FOR RECOMMENDATIONS REGARDING CORING AND NOTCHING OF WALL STUDS.
6. ALL POSTS, BUILT-UP STUD COLUMNS AND STUD PACKS MUST ALIGN FLOOR-TO-FLOOR WITH SOLID BLOCKING AT FLOOR CAVITY LOCATIONS AND CONTINUE TO FOUNDATION OR BEAM SUPPORT BELOW.
7. UNLESS NOTED OTHERWISE ON THE FRAMING PLANS OR IN DETAIL **12/S5-00A**, THE NUMBER OF WALL STUDS AT BEARING POINTS OF 2x DIMENSION LUMBER BEAMS SHALL MATCH THE NUMBER OF MEMBERS IN THE BEAM.
8. ALL LVL AND LSL BEAMS SHALL HAVE A (3) STUD MINIMUM BEARING, UNLESS NOTED OTHERWISE. THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS.
9. ALL CONNECTOR TYPES REFER TO SIMPSON STRONG-TIE SPECIFICATIONS. SEE THE GENERAL NOTES, §7, PART D (SHEET **S0-02**) FOR ADDITIONAL INFORMATION.
10. WHERE WOOD TRUSSES ARE SUPPORTED BY A FLUSH BEAM, PROVIDE SIMPSON "ITT" TYPE JOIST HANGERS, TYP.
11. ALL HANGERS DESIGNATED IN DRAWINGS SHALL BE ATTACHED WITH "MAXIMUM" FASTENER PATTERN, TYP.
12. FREE-STANDING COLUMNS WILL REQUIRE HARDWARE AT THE TOP OF THE COLUMN. PROVIDE SIMPSON ECCQ OR CCQ, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE SIZES WITH CONNECTION MANUFACTURER.
    - BALCONY COLUMNS ARE EXEMPT FROM THIS REQUIREMENT. BALCONY COLUMNS SHALL BE CONNECTED TO BALCONY BEAMS PER DETAILS ON SHEET **S4-03**.

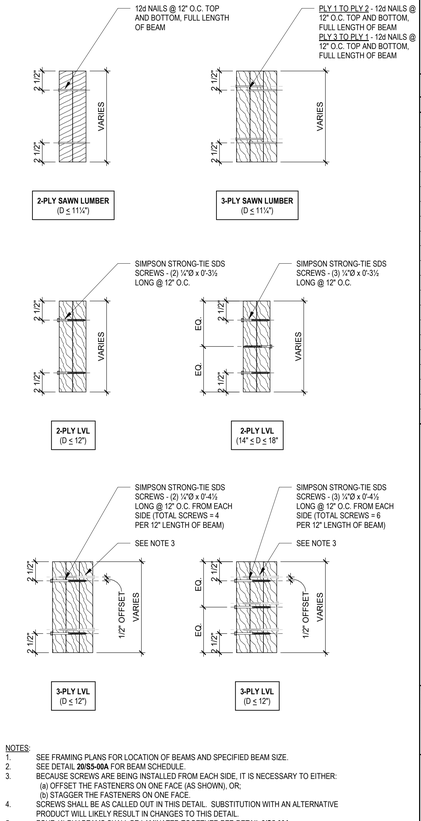
1 TYPICAL FLOOR FRAMING NOTES

S-500A E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



2 BOLTING PATTERN FOR TYPICAL 4-PLY LVL BEAM

S-500A E+M TYPICAL DETAIL SCALE: 3" = 1'-0"



NOTES:

1. SEE FRAMING PLANS FOR LOCATION OF BEAMS AND SPECIFIED BEAM SIZE.
2. SEE DETAIL **20/S5-00A** FOR BEAM SCHEDULE.
3. BECAUSE SCREWS ARE BEING INSTALLED FROM EACH SIDE, IT IS NECESSARY TO EITHER:
   (a) OFFSET THE FASTENERS ON ONE FACE (AS SHOWN), OR;
   (b) STAGGER THE FASTENERS ON ONE FACE.
4. SCREWS SHALL BE AS CALLED OUT IN THIS DETAIL. SUBSTITUTION WITH AN ALTERNATIVE PRODUCT WILL LIKELY RESULT IN CHANGES TO THIS DETAIL.
5. FOUR (4) PLY BEAMS SHALL BE LAMINATED TOGETHER PER DETAIL **2/S5-00A**.

4 MULTI-PLY BEAM LAMINATION REQUIREMENTS

S-500A NOT TO SCALE

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
WOOD WALL SCHEDULE AND DETAILS

S-500A
Sheet Number

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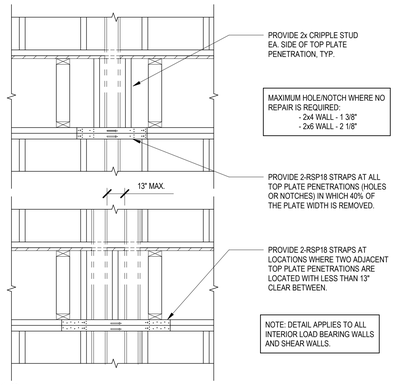
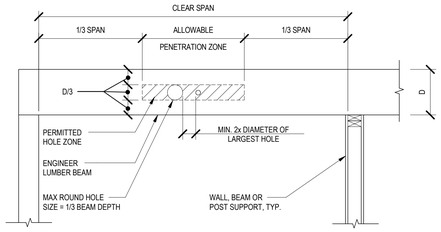


13 STRAP REPAIR AT TOP PLATE PENETRATION HEADERS

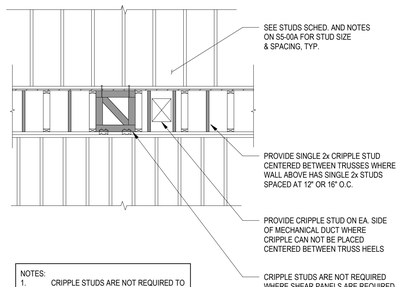
S-500B E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. DETAIL APPLIES TO LVL AND PSL BEAMS WITH DEPTHS GREATER THAN 7 1/4".
2. ALLOWABLE HOLES INDICATED ARE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY.
3. HOLES MUST BE ROUND. SQUARE HOLES ARE NOT PERMITTED.
4. HOLES ARE PERMITTED TO BE PLACED WITHIN THE MIDDLE 1/3 OF THE SPAN IN THE MIDDLE 1/3 OF THE BEAM DEPTH.
5. HOLES ARE NOT PERMITTED TO BE PLACED IN CANTILEVERS.
6. DETAIL APPLIES TO BOTH SIMPLE AND CONTINUOUS SPANS.
7. ANY CONDITION NOT COVERED BY THIS DETAIL MUST BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CUTTING ANY HOLES IN THE FIELD.

9 ALLOWABLE HOLES IN SOLID SAWN LUMBER BEAMS AND HEADERS

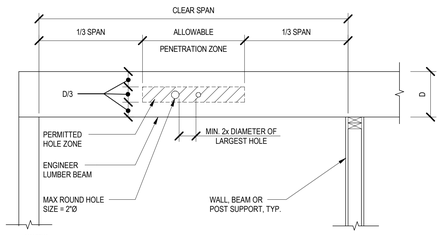
S-500B E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. CRIPPLE STUDS ARE NOT REQUIRED TO ALIGN WITH STUDS ABOVE OR BELOW. CRIPPLES SHALL BE PLACED CENTERED BETWEEN TRUSS HEELS U.N.O.
2. CRIPPLE STUDS ARE NOT REQUIRED AT UPPER MOST FLOOR CAVITY IF WALLS ABOVE ARE NOT SUPPORTING ROOF LOADS.

14 CRIPPLE STUDS - SINGLE 2x STUD WALL ABOVE

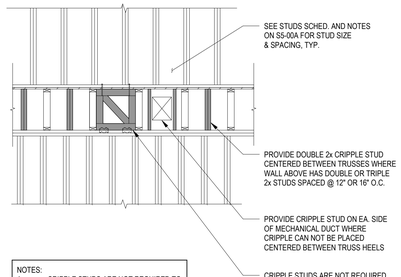
S-500B E+M TYPICAL DETAIL SCALE: 3/8" = 1'-0"



NOTES:
1. DETAIL APPLIES TO LVL AND PSL BEAMS WITH DEPTHS GREATER THAN 7 1/4".
2. ALLOWABLE HOLES INDICATED ARE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY.
3. HOLES MUST BE ROUND. SQUARE HOLES ARE NOT PERMITTED.
4. HOLES ARE PERMITTED TO BE PLACED WITHIN THE MIDDLE 1/3 OF THE SPAN IN THE MIDDLE 1/3 OF THE BEAM DEPTH.
5. HOLES ARE NOT PERMITTED TO BE PLACED IN CANTILEVERS.
6. DETAIL APPLIES TO BOTH SIMPLE AND CONTINUOUS SPANS.
7. ANY CONDITION NOT COVERED BY THIS DETAIL MUST BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CUTTING ANY HOLES IN THE FIELD.

10 ALLOWABLE HOLES IN ENGINEERED LUMBER BEAMS AND HEADERS

S-500B E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



NOTES:
1. CRIPPLE STUDS ARE NOT REQUIRED TO ALIGN WITH STUDS ABOVE OR BELOW. CRIPPLES SHALL BE PLACED CENTERED BETWEEN TRUSS HEELS U.N.O.
2. CRIPPLE STUDS ARE NOT REQUIRED AT UPPER MOST FLOOR CAVITY IF WALLS ABOVE ARE NOT SUPPORTING ROOF LOADS.

15 CRIPPLE STUDS - DOUBLE 2x STUD WALL ABOVE

S-500B E+M TYPICAL DETAIL SCALE: 3/8" = 1'-0"

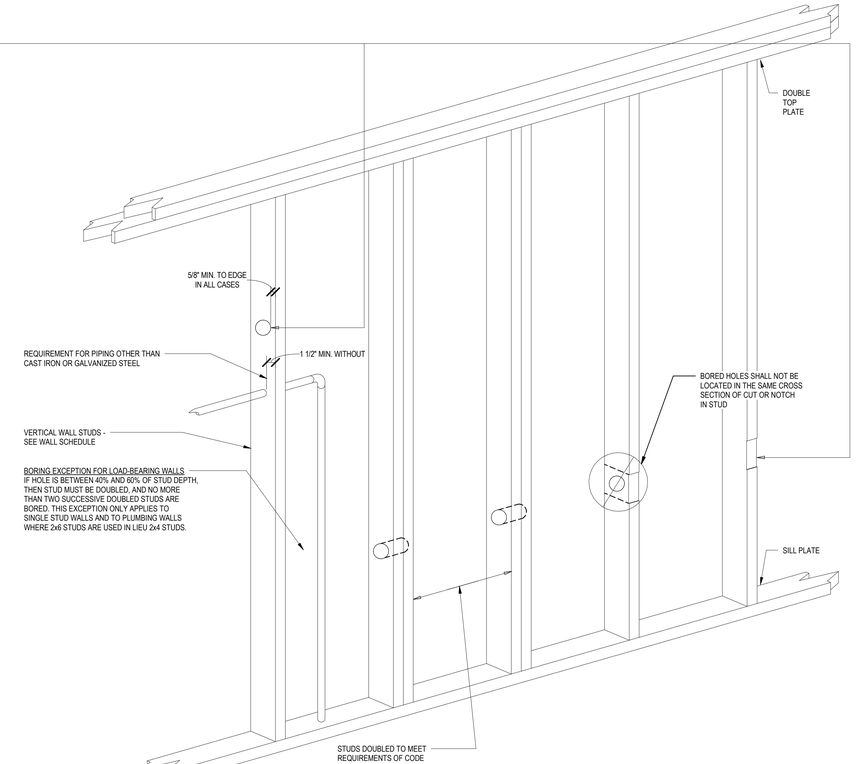
MAXIMUM BORED HOLE DIAMETER/NOTCH DEPTH WITH NO REPAIR/PROTECTION

STUD SIZE (IN)	APPLICATION	MAXIMUM HOLE DIAMETER (IN)	MAXIMUM NOTCH DEPTH (IN)
2x4	NON LOAD-BEARING STUDS (INTERIOR ONLY)	2	1 3/8
	ALL EXTERIOR STUDS & LOAD-BEARING STUDS	1 3/8 *	7/8
2x6	NON LOAD-BEARING STUDS (INTERIOR ONLY)	3 1/4	2 3/16
	ALL EXTERIOR STUDS & LOAD-BEARING STUDS	2 3/16 *	1 3/8

* DENOTES BORED HOLE DIAMETER EXCEPTION FOR INTERIOR LOAD-BEARING STUDS ONLY . SEE TYPICAL NOTE 1 FOR INFORMATION.

TYPICAL NOTES:

1. EXCEPTION FOR HOLE BORING IN INTERIOR LOAD-BEARING STUDS:
   - IF REQUIRED BORED HOLE DIAMETER EXCEEDS VALUE GIVEN ABOVE, BUT IS LESS THAN 60% OF THE STUD WIDTH, THEN BORED STUDS SHALL BE DOUBLED, PROVIDED NO MORE THAN TWO SUCCESSIVE DOUBLED STUD GROUPS ARE BORED.
     - WHERE MULTIPLE STUDS ARE SPECIFIED IN STUD WALL SCHEDULE ON SHEET S5-00A, DOUBLE STUD GROUPS SHALL EQUAL TWICE THE PRESCRIBED STUDS.
2. WHERE NOTCHES AND/OR BORED HOLES DO NOT COMPLY WITH THIS DETAIL, THE CONTRACTOR SHALL REPORT THE CONDITION(S) TO THE STRUCTURAL ENGINEER OF RECORD (E.O.R.) CONTRACTOR SHALL NOT CONTINUE BORING AND/OR NOTCHING ACTIVITIES UNTIL ALTERNATIVE SOLUTION IS PROVIDED BY E.O.R.
3. FROM PAST EXPERIENCE, A 2" INSIDE DIAMETER PIPE INSTALLED AT THE BOTTOM OF A 3¼" THE LARGEST SIZE PIPE THAT CAN RUN HORIZONTALLY THROUGH A STUD AND STILL HAVE ADEQUATE SPACE ABOVE THE PIPE FOR BUILDING SHRINKAGE WITHOUT A CONCERN FOR DAMAGING THE PIPE OR ADJACENT FITTINGS. EVEN FOR THIS SCENARIO, LOAD BEARING STUDS WILL HAVE TO BE DOUBLED FOR ANY BORING SIZES BETWEEN 2¼" AND 3¼" Φ.



12 ALLOWABLE STUD WALL PENETRATIONS PER 2012 IBC

S-500B E+M TYPICAL DETAIL SCALE: 1 1/2" = 1'-0"

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HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
VERTICAL SUPPORTS SCHEDULES AND NOTES

S-500B

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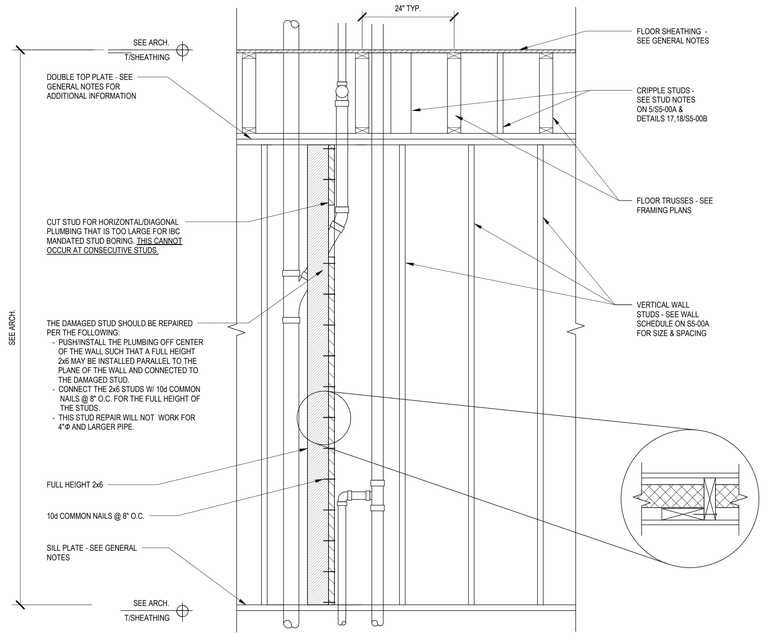
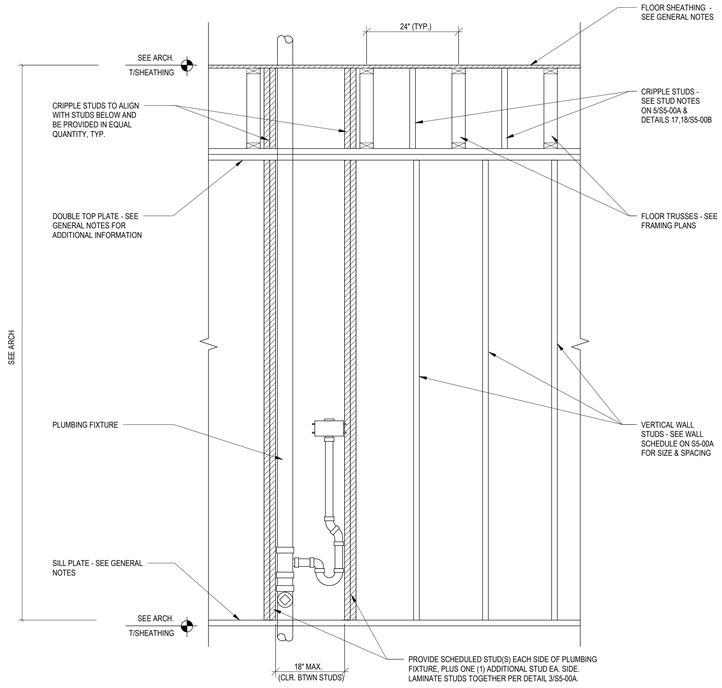


6 ELEVATION OF STUD REPAIR FOR OVER-BORING OR OVER-NOTCHING

S-500C E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



8 ELEVATION OF WALL WITH PLUMBING FIXTURE

S-500C E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

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Sheet Title
WOOD WALL SCHEDULES AND DETAILS

S-500C
Sheet Number

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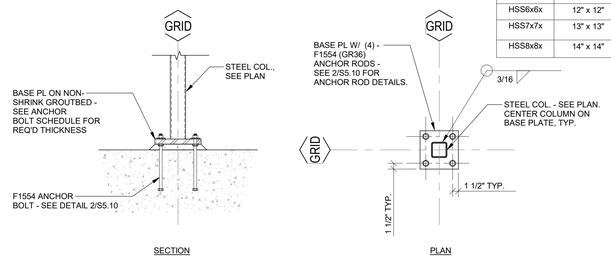
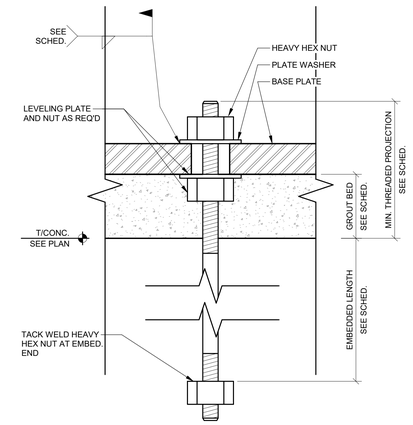
BASE PLATE SCHEDULE

COLUMN SIZE	BASE PLATE SIZE	BASE PLATE THICKNESS	ANCHOR RODS
HSS4x4x	10" x 10"	3/4"	(4)-3/4"Ø F1554
HSS5x5x	11" x 11"	3/4"	(4)-3/4"Ø F1554
HSS6x6x	12" x 12"	1"	(4)-1"Ø F1554
HSS7x7x	13" x 13"	1"	(4)-1"Ø F1554
HSS8x8x	14" x 14"	1"	(4)-1"Ø F1554



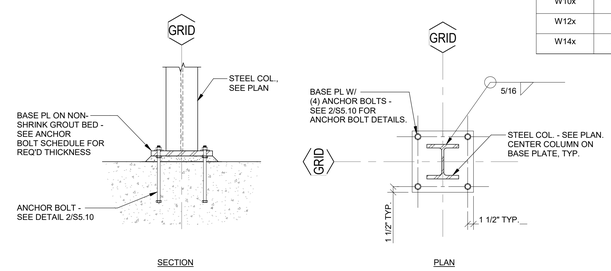
9 HSS COLUMN BASE PLATE DETAIL

S-510 SCALE: 3/4" = 1'-0"



BASE PLATE SCHEDULE

COLUMN SIZE	BASE PLATE SIZE	BASE PLATE THICKNESS	ANCHOR RODS
W8x	16" x 16"	1"	(4)-3/4"Ø F1554
W10x	16" x 16"	1"	(4)-3/4"Ø F1554
W12x	18" x 18"	1"	(4)-3/4"Ø F1554
W14x	20" x 20"	1"	(4)-1"Ø F1554



10 WIDE FLANGE COLUMN BASE PLATE DETAIL

S-510 SCALE: 3/4" = 1'-0"

ANCHOR BOLT ø	MATERIAL GRADE	EMBED. LENGTH	MIN. THREADED PROJECTION	GROUT BED	SIZE OF HOLE IN BASE PLATE	PLATE WASHER	WELD SIZE
3/4" ø	F1554-36	1'-0"	5"	1 1/2"	1 5/16"	1/4"x2"ø	3/16"
1" ø	F1554-55	1'-4"	5"	1 1/2"	1 13/16"	3/8"x3"ø	1/4"
1 1/4" ø	F1554-55	1'-8"	6"	2"	2 1/16"	1/2"x3"ø	1/4"
1 1/2" ø	F1554-55	2'-0"	6"	2"	2 5/16"	1/2"x3 1/2"ø	5/16"
2" ø	F1554-55	2'-8"	9"	3"	3 1/4"	3/4"x5"ø	5/16"
2 1/2" ø	F1554-55	3'-4"	10"	3 1/2"	3 3/4"	7/8"x5 1/2"ø	5/16"

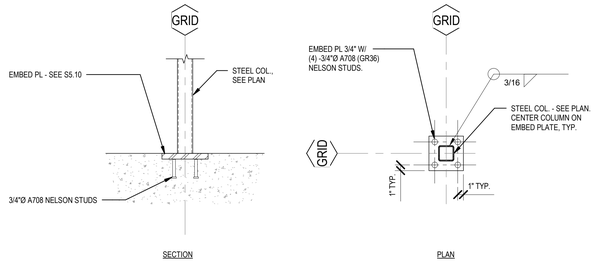
NOTES:
1. PROVIDE LEVELING PLATES AND NUTS AS REQUIRED. STEEL SHIMS MAY BE USED AT CONTRACTOR'S OPTION.
2. DAMAGE THREADS IN TWO (2) PLACES BELOW BOTTOM HEX NUT TO PREVENT LOOSENING.
3. PLATE WASHERS SHALL BE ASTM A36 MATERIAL. PROVIDE STANDARD HOLES IN PLATE WASHERS (1/16" LARGER THAN DIAMETER OF BOLT).
4. PLATE WASHERS SHALL BE WELDED TO BASE PLATES FOR ALL ELEMENTS OF LATERAL-LOAD-RESISTING SYSTEM. BASE PLATES TRANSMITTING ONLY VERTICAL LOADS THROUGH BEARING NEED NOT BE WELDED TO PLATE WASHERS.
5. PROVIDE WELDABLE GRADE 55 PER ASTM SPECIFICATIONS, WHERE ASTM F1554-55 HAS BEEN SPECIFIED FOR ANCHOR BOLTS.
6. LOCATION AND ELEVATION OF ANCHOR BOLTS SHALL BE VERIFIED BY SURVEYOR PRIOR TO ERECTION. WHERE ANCHOR BOLTS ARE OUT OF TOLERANCE, CONTRACTOR SHALL COORDINATE REPAIR WITH STRUCTURAL ENGINEER OF RECORD.

2 ANCHOR BOLT SCHEDULE

S-510 SCALE: 3" = 1'-0"

NOTE:

IF THE EMBED PLATE IS TO BE INSTALLED AT SLAB ON GRADE, SEE DETAIL 6/S5.10 FOR THE INFORMATION REGARDING LOCALIZED THICKENED SLAB UNDER THE COLUMN

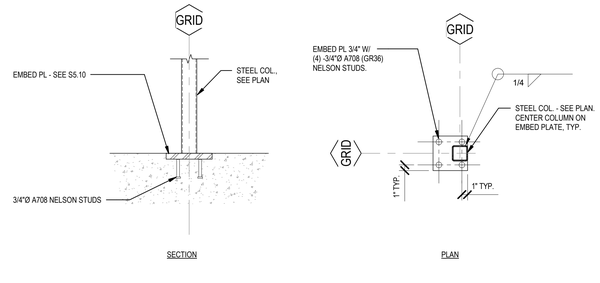


BASE PLATE SCHEDULE

COLUMN SIZE	EMBED PLATE SIZE	EMBED PLATE THICKNESS	NELSON STUDS
HSS6x6	10" x 10"	3/4"	(4)-3/4"Ø A708
HSS5x5	10" x 10"	3/4"	(4)-3/4"Ø A708
HSS4x4	8" x 8"	3/4"	(4)-3/4"Ø A708

7 HSS COLUMN EMBED PLATE DETAIL

S-510 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



BASE PLATE SCHEDULE

COLUMN SIZE	EMBED PLATE SIZE	EMBED PLATE THICKNESS	NELSON STUDS
HSS6x6	10" x 10"	3/4"	(4)-3/4"Ø A708
HSS4x4	8" x 8"	3/4"	(4)-3/4"Ø A708

8 HSS COLUMN E.O.S EMBED PLATE DETAIL

S-510 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

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HOTEL HARTNESS

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Sheet Title
STEEL COLUMN SECTIONS AND DETAILS

S-510
Sheet Number

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	Bar Size	COLUMN TENSION LAP SPLICE LENGTH FOR GRADE 60 REINFORCING BARS																							
		f'c=4000psi				f'c=5000psi				f'c=6000psi				f'c=7000psi				f'c=8000psi				f'c=9000psi			
		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)	
		CASE		CASE		CASE		CASE		CASE		CASE		CASE		CASE		CASE		CASE		CASE		CASE	
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Gr. 60	#5	19	19	25	19	19	19	22	19	19	19	20	19	19	19	19	19	19	19	19	19	19	19	19	19
	#6	26	23	34	23	23	23	30	23	23	23	28	23	23	23	26	23	23	23	24	23	23	23	23	23
	#7	42	27	55	33	38	27	49	29	34	27	45	27	32	27	41	27	30	27	39	27	28	27	37	27
	#8	52	30	68	38	47	30	61	34	43	30	56	31	40	30	51	30	37	30	48	30	35	30	45	30
	#9	59	35	77	46	53	34	69	41	48	34	63	38	45	34	58	35	42	34	54	34	40	34	51	34
	#10	68	44	88	57	61	39	79	51	55	39	72	47	51	39	66	43	48	39	62	41	45	39	59	39
	#11	72	49	93	63	64	44	83	57	59	43	76	52	54	43	71	48	51	43	66	45	48	43	62	43
Gr. 75	#10	84	56	110	71	76	56	98	64	69	56	90	58	64	56	83	56	60	56	78	56	56	56	73	56
	#11	90	62	116	79	80	62	104	71	73	62	95	65	68	62	88	62	63	62	82	62	62	62	78	62

	Bar Size	f'c=10000psi		
		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)
		CASE		CASE
		1	2	1	2
Gr. 60	#5	19	19	19	19
	#6	23	23	23	23
	#7	27	27	35	27
	#8	33	30	43	30
	#9	38	34	49	34
	#10	43	39	56	39
	#11	46	43	59	43
Gr. 75	#10	56	56	69	56
	#11	62	62	74	62

NOTES:
1. THIS TABLE CONTAINS TENSION LAP SPLICE LENGTHS FOR NORMAL WEIGHT CONCRETE COLUMNS ONLY.
2. ALL LENGTHS ARE IN INCHES.
3. Ld = TENSION DEVELOPMENT LENGTH PER CHAPTER 25 OF ACI 318. THE VALUE IN THE CHART IS THE GREATER OF THE TENSION DEVELOPMENT LENGTH AND THE COMPRESSION SPLICE LENGTH.
4. CASE 1 SHALL APPLY WHEN MINIMUM COVER IS PROVIDED (1 1/2") AND THE CENTER-TO-CENTER BAR SPACING IS ≥2.5*db (BUT NOT LESS THAN db+1 1/2"), WHERE db IS THE DIAMETER OF THE LARGER BAR BEING SPLICED.
5. CASE 2 SHALL APPLY WHEN MINIMUM COVER IS PROVIDED (1 1/2") AND THE CENTER-TO-CENTER BAR SPACING IS ≥5*db, WHERE db IS THE DIAMETER OF THE LARGER BAR BEING SPLICED.
6. WHEN CLEAR SPACING BETWEEN BARS AT SPLICE IS ≤2*db, SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE SPLICED ANY GIVEN LOCATION. REFER TO TYPICAL DETAIL, "CLEAR SPACING OF SPLICED BARS - STAGGERED SPLICES", FOR CRITERIA TO DETERMINE CLEAR SPACING "S" FOR BARS AT STAGGERED SPLICES.
7. IN CASES WHERE BAR SPACING IS NOT THE SAME AT DIFFERENT COLUMN FACES, THE SMALLER SPACING SHALL BE USED TO DETERMINE THE APPLICABLE SPLICE CATEGORY.
8. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE CLASS B SPLICE OF THE SMALLER BAR, BUT SHALL NOT BE LESS THAN THE CLASS A SPLICE LENGTH OF THE LARGER BAR.

17 COLUMN TENSION LAP SPLICE (N.W.C.)

S-530 SCALE: 3/4" = 1'-0"

Bar Size	COMPRESSION DEVELOPMENT LENGTH, Ldc													
	f'c=3000psi		f'c=4000psi		f'c=5000psi		f'c=6000psi		f'c=7000psi		f'c=8000psi		f'c=9000psi	
	GR60	GR75	GR60	GR75	GR60	GR75	GR60	GR75	GR60	GR75	GR60	GR75	GR60	GR75
#3	9	11	8	9	8	9	8	9	8	9	8	9	8	9
#4	11	14	10	12	9	12	9	12	9	12	9	12	9	12
#5	14	18	12	15	12	15	12	15	12	15	12	15	12	15
#6	17	21	15	18	14	17	14	17	14	17	14	17	14	17
#7	20	24	17	21	16	20	16	20	16	20	16	20	16	20
#8	22	28	19	24	18	23	18	23	18	23	18	23	18	23
#9	25	31	22	27	21	26	21	26	21	26	21	26	21	26
#10	28	35	25	31	23	29	23	29	23	29	23	29	23	29
#11	31	39	27	34	26	32	26	32	26	32	26	32	26	32
#14	38	47	33	41	31	39	31	39	31	39	31	39	31	39

NOTES:
1. Ldc= COMPRESSION DEVELOPMENT LENGTH
2. ALL LENGTHS ARE IN INCHES.
3. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED IN COMPRESSION, THE SPLICE LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE COMPRESSION SPLICE LENGTH OF THE SMALLER BAR.
4. FOR REINFORCEMENT ENCLOSED WITHIN SPIRAL REINFORCEMENT NOT LESS THAN 1/4"Ø AND NOT MORE THAN 4" PITCH, Ldb MAY BE REDUCED BY 25%.
5. FOR REINFORCEMENT ENCLOSED WITHIN TIES SPACED AT NOT MORE THAN 4" ON CENTER, Ldb MAY BE REDUCED BY 25%.

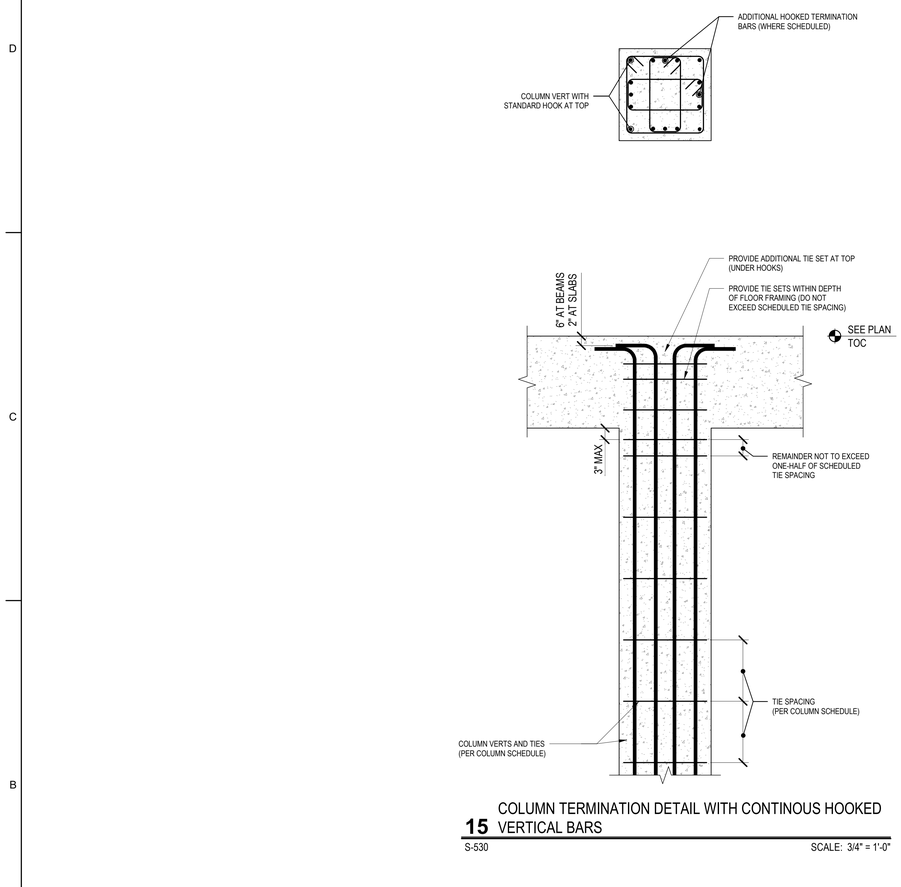
9 COMPRESSION DEVELOPMENT LENGTH (N.W.C.)

S-530 SCALE: 3/4" = 1'-0"

1. ALL REINFORCEMENT SHOWN IS ASTM 615 GR60.
2. REFER TO TYPICAL CONCRETE COLUMN DETAILS
3. COLUMN VERTICAL REINFORCEMENT, TIES, AND SPLICES SHALL BE DETAILED AND FABRICATED TO CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318-14 AND ACI STANDARD "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AS REPORTED BY ACI COMMITTEE 315.
4. COLUMN LAP SPLICES SHALL BE NORMAL LAP SPLICES (UNLESS NOTED OTHERWISE IN THE COLUMN SCHEDULE) WITH BARS OFFSET BENT IN THE SHOP TOWARD THE INTERIOR OF THE COLUMN. WHERE THE TYPE OF SPLICE HAS NOT BEEN CALLED OUT IN THE COLUMN SCHEDULE, PROVIDE CLASS "B" TENSION SPLICE, TYP.
5. THE SLOPE OF THE INCLINED PORTION OF AN OFFSET BAR WITH THE AXIS OF THE COLUMN SHALL NOT EXCEED 1 IN 6. PORTIONS OF THE BAR ABOVE AND BELOW AN OFFSET SHALL BE PARALLEL TO THE AXIS OF THE COLUMN. OFFSET BARS SHALL BE BENT BEFORE PLACEMENT IN THE FORMS. WHERE A COLUMN FACE IS OFFSET 3 INCHES OR MORE, LONGITUDINAL BARS SHALL NOT BE OFFSET BENT. SEPARATE DOWELS, LAP SPLICED WITH THE LONGITUDINAL BARS ADJACENT TO THE OFFSET COLUMN FACES, SHALL BE PROVIDED. SEE COLUMN SPLICES DETAILS.
6. ALL COLUMNS ARE CENTERED ON GRIDS, UNLESS NOTED OTHERWISE IN THE STRUCTURAL FRAMING PLANS. SEE PLAN AND COLUMN ORIENTATION DETAILS FOR NON-TYPICAL ORIENTATIONS.

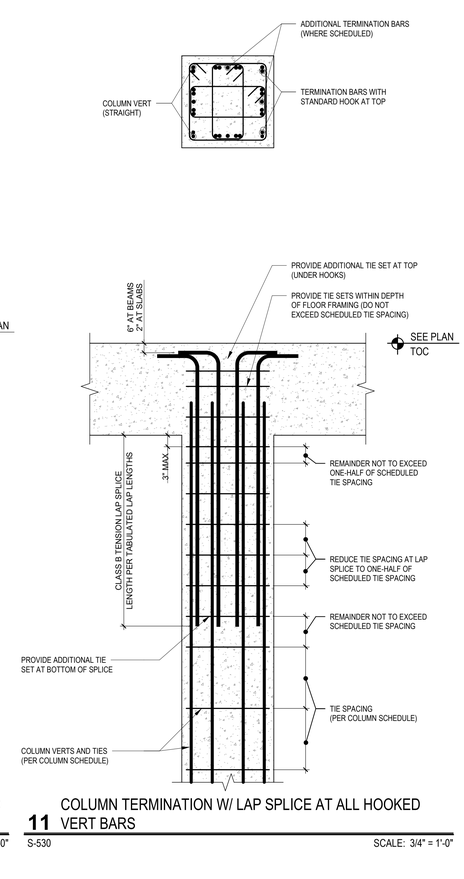
5 CONCRETE COLUMN NOTES

S-530 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"



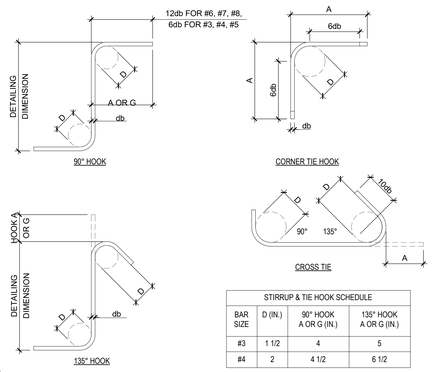
15 COLUMN TERMINATION DETAIL WITH CONTINOUS HOOKED VERTICAL BARS

S-530 SCALE: 3/4" = 1'-0"



11 COLUMN TERMINATION W/ LAP SPLICE AT ALL HOOKED VERT BARS

S-530 SCALE: 3/4" = 1'-0"



STIRRUP & TIE HOOK SCHEDULE			
BAR SIZE	D (IN.)	90° HOOK A OR G (IN.)	135° HOOK A OR G (IN.)
#3	1 1/2	4	5
#4	2	4 1/2	6 1/2

D=INSIDE DIAMETER OF BEND

6 STIRRUPS AND TIE HOOK TYPES

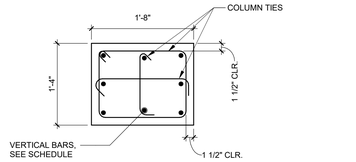
S-530 E+M TYPICAL DETAIL SCALE: 3/4" = 1'-0"

COMPRESSION LAP SPLICE LENGTHS, Lsc		
Bar Size	GR60	GR75
#3	12	17
#4	15	22
#5	19	28
#6	23	33
#7	27	39
#8	30	44
#9	34	49
#10	39	56
#11	43	62
#14	51	74

NOTES:
1. Lsc= COMPRESSION LAP SPLICE LENGTH
2. ALL LENGTHS ARE IN INCHES.
3. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED IN COMPRESSION, THE SPLICE LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE COMPRESSION SPLICE LENGTH OF THE SMALLER BAR.
4. LAP SPLICES OF No.14 BARS TO No.11 AND SMALLER BARS IS PERMITTED FOR COMPRESSION LAP SPLICES ONLY.

7 COMPRESSION LAP SPLICE LENGTHS

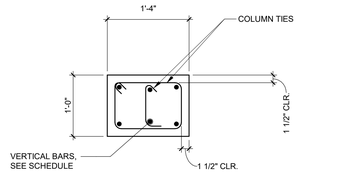
S-530 SCALE: 3/4" = 1'-0"



NOTES:
1. MINIMUM CONCRETE COVER TO BE 0'-1½", AS SHOWN. IF THE COLUMN IS EXPOSED AND HAS ARCHITECTURAL REVEALS, THE CONCRETE COVER SHALL BE INCREASED BY THE DEPTH OF THE REVEAL PROFILE.
2. ALTERNATE 135° HOOKS WHEN PLACING SUCCESSIVE SET OF TIES.
3. TIES HAVE BEEN DETAILED AS ONE PIECE. IF TWO-PIECE TIES ARE USED IN LIEU OF WHAT HAS BEEN SHOWN, TWO-PIECE TIES MUST BE DETAILED SUCH THAT:
   a. THE LAP SPLICE LENGTH BETWEEN LEGS OF THE TIES IS AT LEAST A CLASS "B" TENSION LAP.
   b. BOTH TIES IN EACH PAIR ARE SECURELY TIED TO COLUMN VERTICAL BARS AND TO EACH OTHER TO PREVENT DISPLACEMENT DURING CONCRETING.
4. TWO-PIECE TIES ARE NOT ACCEPTABLE FOR PERIMETER TIE. PERIMETER TIE MUST BE A ONE-PIECE TIE WITH 135° HOOKS.
5. SEE DETAIL **6/S-530** FOR ALL HOOK REQUIREMENTS.

1 16"x20" RECTANGULAR COLUMN W/8-BAR PATTERN

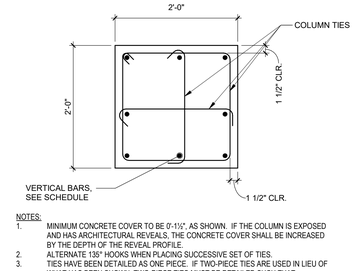
S-530 SCALE: 1" = 1'-0"



NOTES:
1. MINIMUM CONCRETE COVER TO BE 0'-1½", AS SHOWN. IF THE COLUMN IS EXPOSED AND HAS ARCHITECTURAL REVEALS, THE CONCRETE COVER SHALL BE INCREASED BY THE DEPTH OF THE REVEAL PROFILE.
2. ALTERNATE 135° HOOKS WHEN PLACING SUCCESSIVE SET OF TIES.
3. TIES HAVE BEEN DETAILED AS ONE PIECE. IF TWO-PIECE TIES ARE USED IN LIEU OF WHAT HAS BEEN SHOWN, TWO-PIECE TIES MUST BE DETAILED SUCH THAT:
   a. THE LAP SPLICE LENGTH BETWEEN LEGS OF THE TIES IS AT LEAST A CLASS "B" TENSION LAP.
   b. BOTH TIES IN EACH PAIR ARE SECURELY TIED TO COLUMN VERTICAL BARS AND TO EACH OTHER TO PREVENT DISPLACEMENT DURING CONCRETING.
4. TWO-PIECE TIES ARE NOT ACCEPTABLE FOR PERIMETER TIE. PERIMETER TIE MUST BE A ONE-PIECE TIE WITH 135° HOOKS.
5. SEE DETAIL **6/S-530** FOR ALL HOOK REQUIREMENTS.

2 12"x16" RECTANGULAR COLUMN W/6-BAR PATTERN

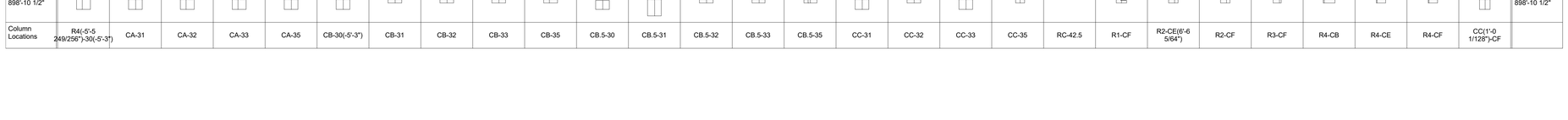
S-530 SCALE: 1" = 1'-0"



NOTES:
1. MINIMUM CONCRETE COVER TO BE 0'-1½", AS SHOWN. IF THE COLUMN IS EXPOSED AND HAS ARCHITECTURAL REVEALS, THE CONCRETE COVER SHALL BE INCREASED BY THE DEPTH OF THE REVEAL PROFILE.
2. ALTERNATE 135° HOOKS WHEN PLACING SUCCESSIVE SET OF TIES.
3. TIES HAVE BEEN DETAILED AS ONE PIECE. IF TWO-PIECE TIES ARE USED IN LIEU OF WHAT HAS BEEN SHOWN, TWO-PIECE TIES MUST BE DETAILED SUCH THAT:
   a. THE LAP SPLICE LENGTH BETWEEN LEGS OF THE TIES IS AT LEAST A CLASS "B" TENSION LAP.
   b. BOTH TIES IN EACH PAIR ARE SECURELY TIED TO COLUMN VERTICAL BARS AND TO EACH OTHER TO PREVENT DISPLACEMENT DURING CONCRETING.
4. TWO-PIECE TIES ARE NOT ACCEPTABLE FOR PERIMETER TIE. PERIMETER TIE MUST BE A ONE-PIECE TIE WITH 135° HOOKS.
5. SEE DETAIL **6/S-530** FOR ALL HOOK REQUIREMENTS.

3 24"x24" RECTANGULAR COLUMN W/8-BAR PATTERN

S-530 SCALE: 1" = 1'-0"



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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
CONCRETE COLUMN SECTIONS AND DETAILS

S-530
Sheet Number

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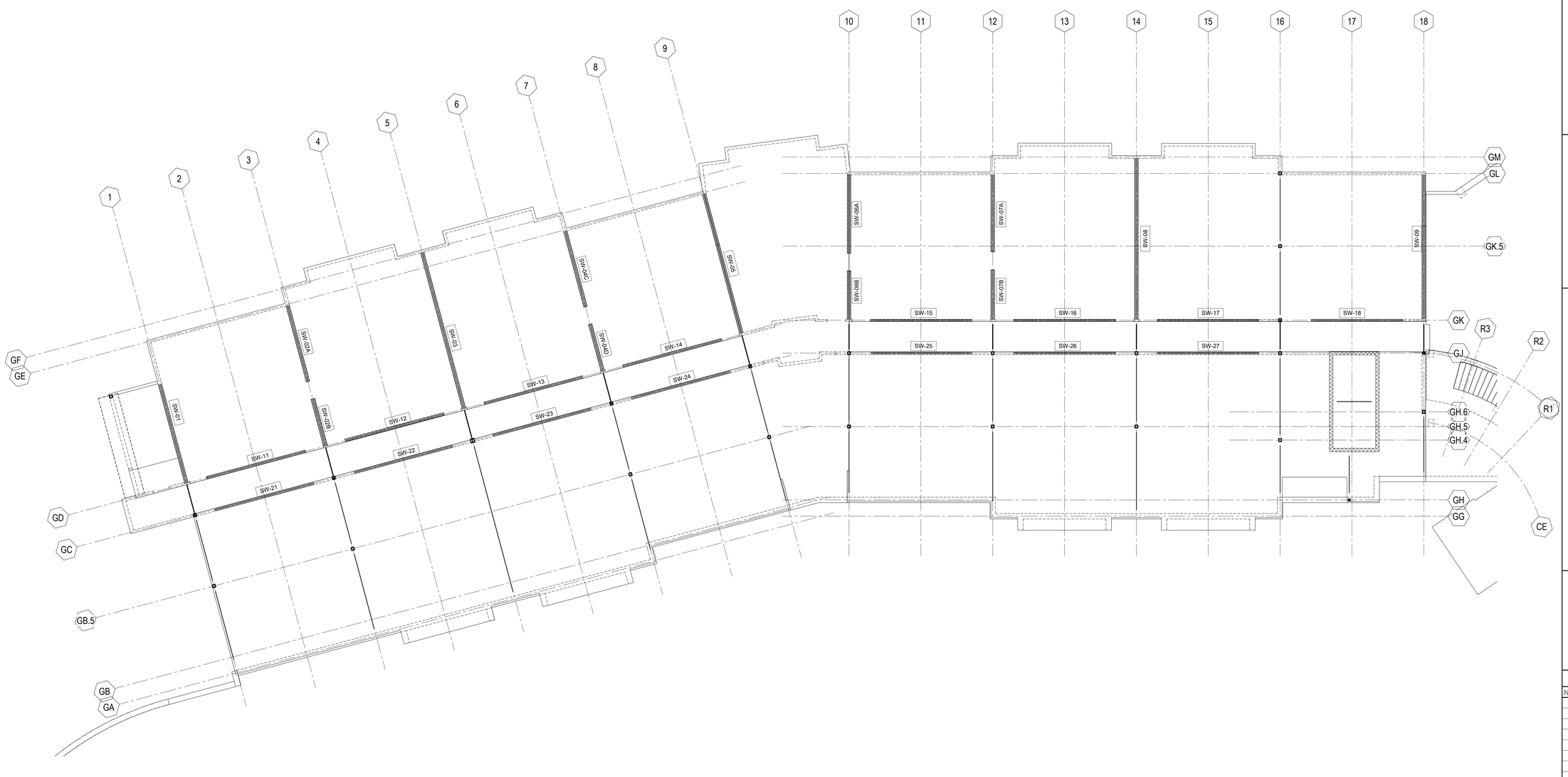

CFMF - LATERAL SYSTEM PLAN NOTES::

1. ▬▬▬▬ DENOTES SHEAR WALL LOCATIONS. SHEAR WALL EXTENTS (LENGTH) SHALL BE AS DIMENSIONED ON THIS PLAN.
2. SHEAR WALL ENDS TO BE LOCATED AT 8" OR GREATER FROM OPENINGS, U.N.O.
3. DESIGN OF THE SHEAR WALLS SHALL BE PROVIDED BY THE CFMF SPECIALTY ENGINEER AND SHALL BE ADEQUATE TO RESIST THE SHEAR FORCES NOTED IN THE SHEAR WALL SCHEDULE (REFER TO SHEET **S-470**).
4. THE FOLLOWING INFORMATION HAS BEEN PROVIDED IN THE SHEAR WALL SCHEDULE ON SHEET **S-470** FOR EACH SHEAR WALL SHOWN IN THIS PLAN:
   - CUMULATIVE SHEAR FORCE AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
   - CUMULATIVE CLOCKWISE MOMENT FORCE RESULTING FROM OVERTURNING AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
   - CUMULATIVE COUNTERCLOCKWISE MOMENT FORCE RESULTING FROM OVERTURNING AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
5. SHEAR AND OVERTURNING RESULTING FROM WIND FORCES (AS SHOWN IN THE SHEAR WALL SCHEDULE ON SHEET **S-470**) HAVE BEEN DETERMINED USING ASCE 7-10. THE REPORTED RESULTS ARE FACTORED ULTIMATE FORCES TO BE USED WITH LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED LOADS SHOULD BE MULTIPLED BY 0.60.
6. SHEAR AND OVERTURNING RESULTING FROM SEISMIC FORCES (AS SHOWN IN THE SHEAR WALL SCHEDULE ON SHEET **S-470**) HAVE BEEN DETERMINED USING ASCE 7-10. THE REPORTED RESULTS ARE FACTORED ULTIMATE LOADS TO BE USED WITH LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED LOADS SHOULD BE MULTIPLED BY 0.70.
7. THE SEISMIC FORCE PROVIDED IN THE SHEAR WALL SCHEDULE HAS BEEN DETERMINED WITH THE ASSUMPTION THAT THE LATERAL SYSTEM RESPONSE MODIFICATION FACTOR, "R", IS EQUAL TO 6.5. THAT "R" VALUE CORRESPONDS TO A BEARING WALL SYSTEM WITH LIGHT-FRAMED (COLD-FORMED STEEL) WALLS USING FLAT STRAP BRACING.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A LARGER VALUE FOR "R" IS APPLICABLE, IT WILL BE CONSERVATIVE TO USE THE FORCES SHOWN IN THE SHEAR WALL SCHEDULE.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A SMALLER VALUE FOR "R" IS APPLICABLE, IT WILL BE NECESSARY TO INCREASE THE VALUES FOR SEISMIC SHEAR IN THE SHEAR WALL SCHEDULE BY A FACTOR OF $6.5/R_s$, WHERE R_s IS THE "R" VALUE BEING USED BY THE SPECIALTY ENGINEER TO COMPUTE SEISMIC LOADS.

1 HOTEL L2 LATERAL BRACING PLAN

S-600

SCALE: 1/8" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HOTEL L2 LATERAL BRACING PLAN

S-600

Sheet Number

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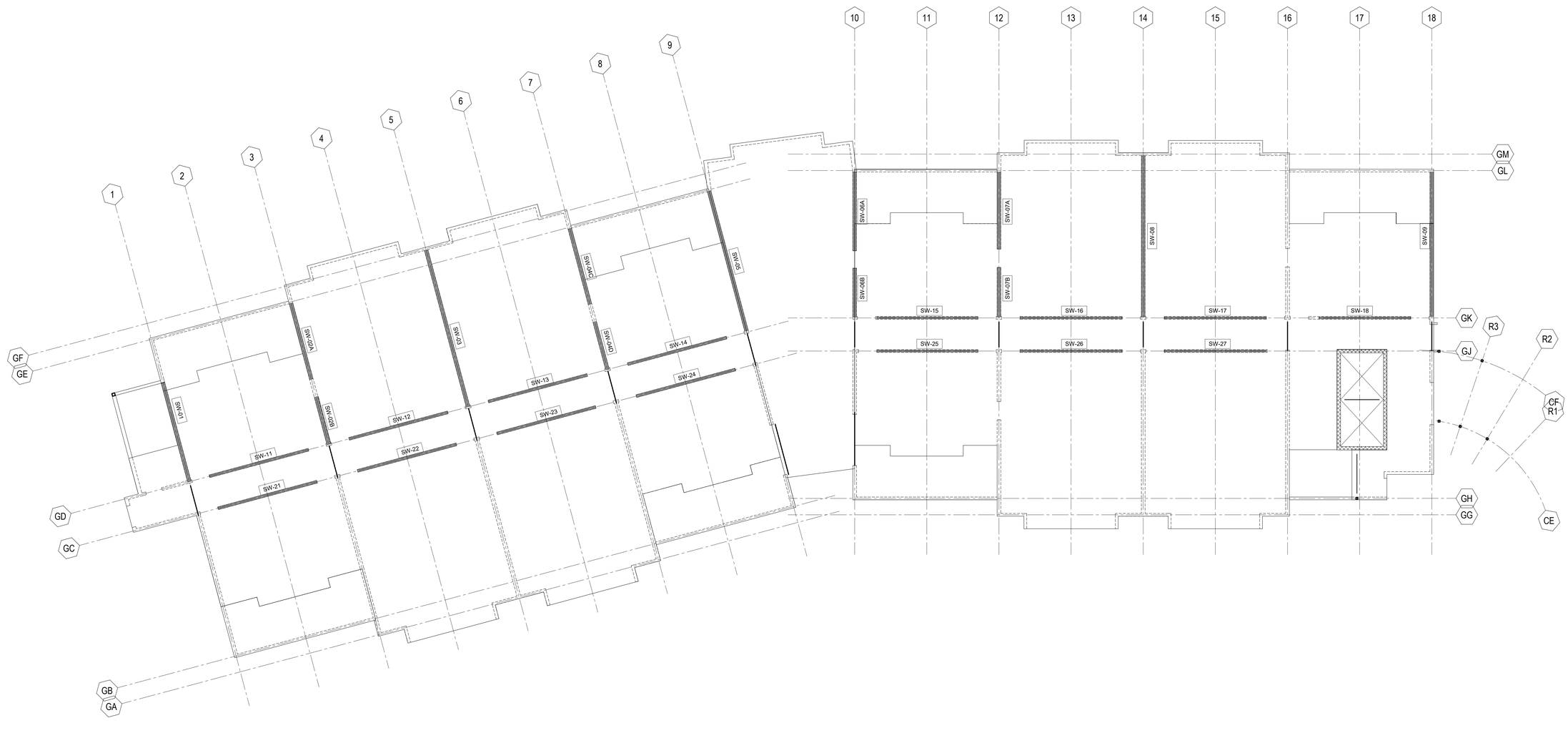

CFMF - LATERAL SYSTEM PLAN NOTES::

1. ▬▬▬▬▬ DENOTES SHEAR WALL LOCATIONS. SHEAR WALL EXTENTS (LENGTH) SHALL BE AS DIMENSIONED ON THIS PLAN.
2. SHEAR WALL ENDS TO BE LOCATED AT 8" OR GREATER FROM OPENINGS, U.N.O.
3. DESIGN OF THE SHEAR WALLS SHALL BE PROVIDED BY THE CFMF SPECIALTY ENGINEER AND SHALL BE ADEQUATE TO RESIST THE SHEAR FORCES NOTED IN THE SHEAR WALL SCHEDULE (REFER TO SHEET **S-470**).
4. THE FOLLOWING INFORMATION HAS BEEN PROVIDED IN THE SHEAR WALL SCHEDULE ON SHEET **S-470** FOR EACH SHEAR WALL SHOWN IN THIS PLAN:
   - CUMULATIVE SHEAR FORCE AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
   - CUMULATIVE CLOCKWISE MOMENT FORCE RESULTING FROM OVERTURNING AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
   - CUMULATIVE COUNTERCLOCKWISE MOMENT FORCE RESULTING FROM OVERTURNING AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
5. SHEAR AND OVERTURNING RESULTING FROM WIND FORCES (AS SHOWN IN THE SHEAR WALL SCHEDULE ON SHEET **S-470**) HAVE BEEN DETERMINED USING ASCE 7-10. THE REPORTED RESULTS ARE FACTORED ULTIMATE FORCES TO BE USED WITH LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED LOADS SHOULD BE MULTIPLED BY 0.60.
6. SHEAR AND OVERTURNING RESULTING FROM SEISMIC FORCES (AS SHOWN IN THE SHEAR WALL SCHEDULE ON SHEET **S-470**) HAVE BEEN DETERMINED USING ASCE 7-10. THE REPORTED RESULTS ARE FACTORED ULTIMATE LOADS TO BE USED WITH LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED LOADS SHOULD BE MULTIPLED BY 0.70.
7. THE SEISMIC FORCE PROVIDED IN THE SHEAR WALL SCHEDULE HAS BEEN DETERMINED WITH THE ASSUMPTION THAT THE LATERAL SYSTEM RESPONSE MODIFICATION FACTOR, "R", IS EQUAL TO 6.5. THAT "R" VALUE CORRESPONDS TO A BEARING WALL SYSTEM WITH LIGHT-FRAMED (COLD-FORMED STEEL) WALLS USING FLAT STRAP BRACING.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A LARGER VALUE FOR "R" IS APPLICABLE, IT WILL BE CONSERVATIVE TO USE THE FORCES SHOWN IN THE SHEAR WALL SCHEDULE.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A SMALLER VALUE FOR "R" IS APPLICABLE, IT WILL BE NECESSARY TO INCREASE THE VALUES FOR SEISMIC SHEAR IN THE SHEAR WALL SCHEDULE BY A FACTOR OF $6.5/R_s$, WHERE R_s IS THE "R" VALUE BEING USED BY THE SPECIALTY ENGINEER TO COMPUTE SEISMIC LOADS.

1 HOTEL L3 LATERAL BRACING PLAN

S-601

SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION
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B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HOTEL L3 LATERAL BRACING PLAN

S-601

Sheet Number

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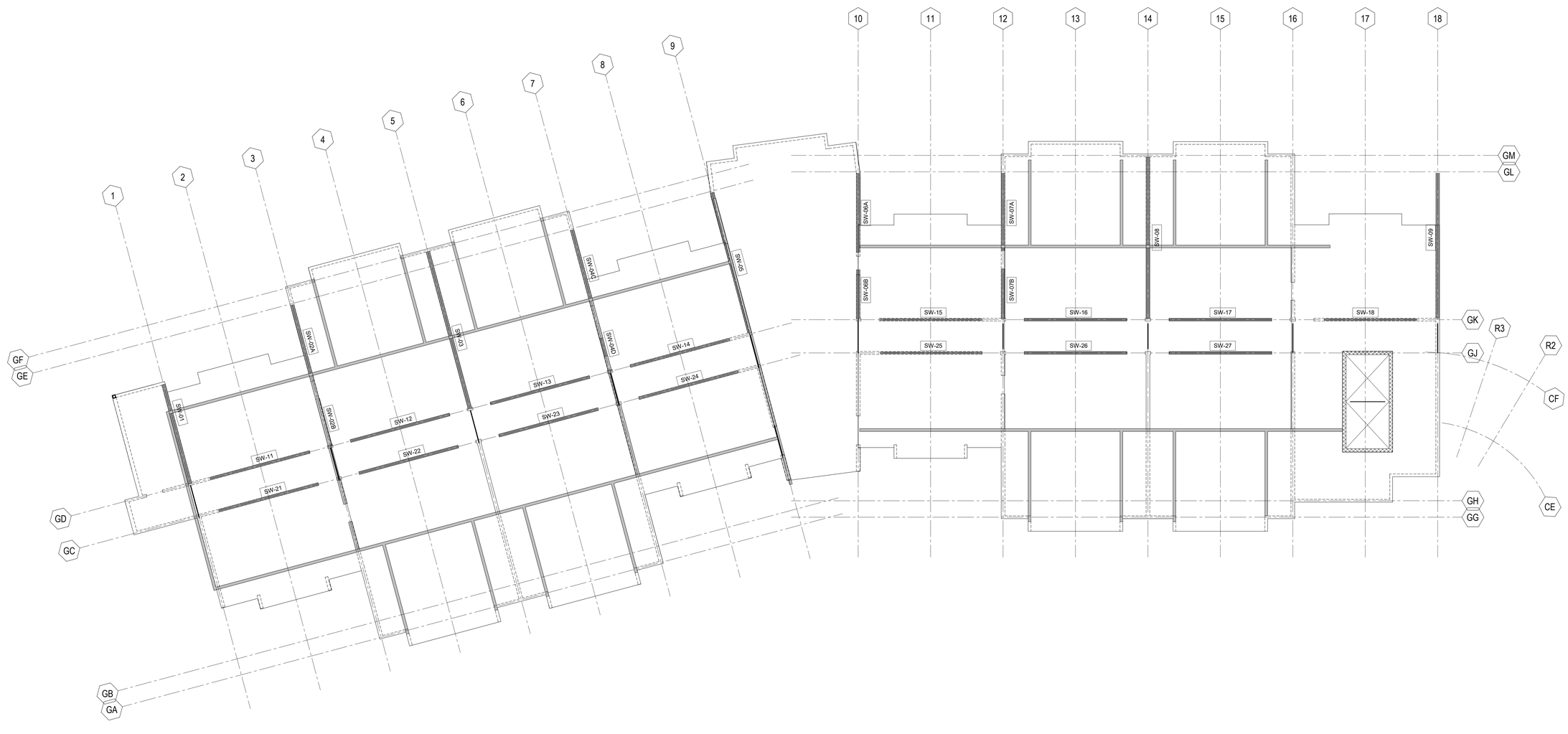

CFMF - LATERAL SYSTEM PLAN NOTES::

1. ▬▬▬▬ DENOTES SHEAR WALL LOCATIONS. SHEAR WALL EXTENTS (LENGTH) SHALL BE AS DIMENSIONED ON THIS PLAN.
2. SHEAR WALL ENDS TO BE LOCATED AT 8" OR GREATER FROM OPENINGS, U.N.O.
3. DESIGN OF THE SHEAR WALLS SHALL BE PROVIDED BY THE CFMF SPECIALTY ENGINEER AND SHALL BE ADEQUATE TO RESIST THE SHEAR FORCES NOTED IN THE SHEAR WALL SCHEDULE (REFER TO SHEET **S-470**).
4. THE FOLLOWING INFORMATION HAS BEEN PROVIDED IN THE SHEAR WALL SCHEDULE ON SHEET **S-470** FOR EACH SHEAR WALL SHOWN IN THIS PLAN:
   - CUMULATIVE SHEAR FORCE AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
   - CUMULATIVE CLOCKWISE MOMENT FORCE RESULTING FROM OVERTURNING AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
   - CUMULATIVE COUNTERCLOCKWISE MOMENT FORCE RESULTING FROM OVERTURNING AT EACH LEVEL FOR BOTH WIND (W) AND SEISMIC (EQ) LOADING.
5. SHEAR AND OVERTURNING RESULTING FROM WIND FORCES (AS SHOWN IN THE SHEAR WALL SCHEDULE ON SHEET **S-470**) HAVE BEEN DETERMINED USING ASCE 7-10. THE REPORTED RESULTS ARE FACTORED ULTIMATE FORCES TO BE USED WITH LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED LOADS SHOULD BE MULTIPLED BY 0.60.
6. SHEAR AND OVERTURNING RESULTING FROM SEISMIC FORCES (AS SHOWN IN THE SHEAR WALL SCHEDULE ON SHEET **S-470**) HAVE BEEN DETERMINED USING ASCE 7-10. THE REPORTED RESULTS ARE FACTORED ULTIMATE LOADS TO BE USED WITH LRFD DESIGN METHODS.
   - IF SERVICE LEVEL LOADS ARE NEEDED FOR USE WITH ALLOWABLE STRESS DESIGN (ASD), THE REPORTED LOADS SHOULD BE MULTIPLED BY 0.70.
7. THE SEISMIC FORCE PROVIDED IN THE SHEAR WALL SCHEDULE HAS BEEN DETERMINED WITH THE ASSUMPTION THAT THE LATERAL SYSTEM RESPONSE MODIFICATION FACTOR, "R", IS EQUAL TO 6.5. THAT "R" VALUE CORRESPONDS TO A BEARING WALL SYSTEM WITH LIGHT-FRAMED (COLD-FORMED STEEL) WALLS USING FLAT STRAP BRACING.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A LARGER VALUE FOR "R" IS APPLICABLE, IT WILL BE CONSERVATIVE TO USE THE FORCES SHOWN IN THE SHEAR WALL SCHEDULE.
   - SHOULD THE SPECIALTY ENGINEER DETERMINE THAT A SMALLER VALUE FOR "R" IS APPLICABLE, IT WILL BE NECESSARY TO INCREASE THE VALUES FOR SEISMIC SHEAR IN THE SHEAR WALL SCHEDULE BY A FACTOR OF $6.5/R_s$, WHERE R_s IS THE "R" VALUE BEING USED BY THE SPECIALTY ENGINEER TO COMPUTE SEISMIC LOADS.

1 HOTEL L4 LATERAL BRACING PLAN

S-602

SCALE: 1/8" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Submittal

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
HOTEL L4 (ROOF) LATERAL BRACING PLAN

S-602

Sheet Number

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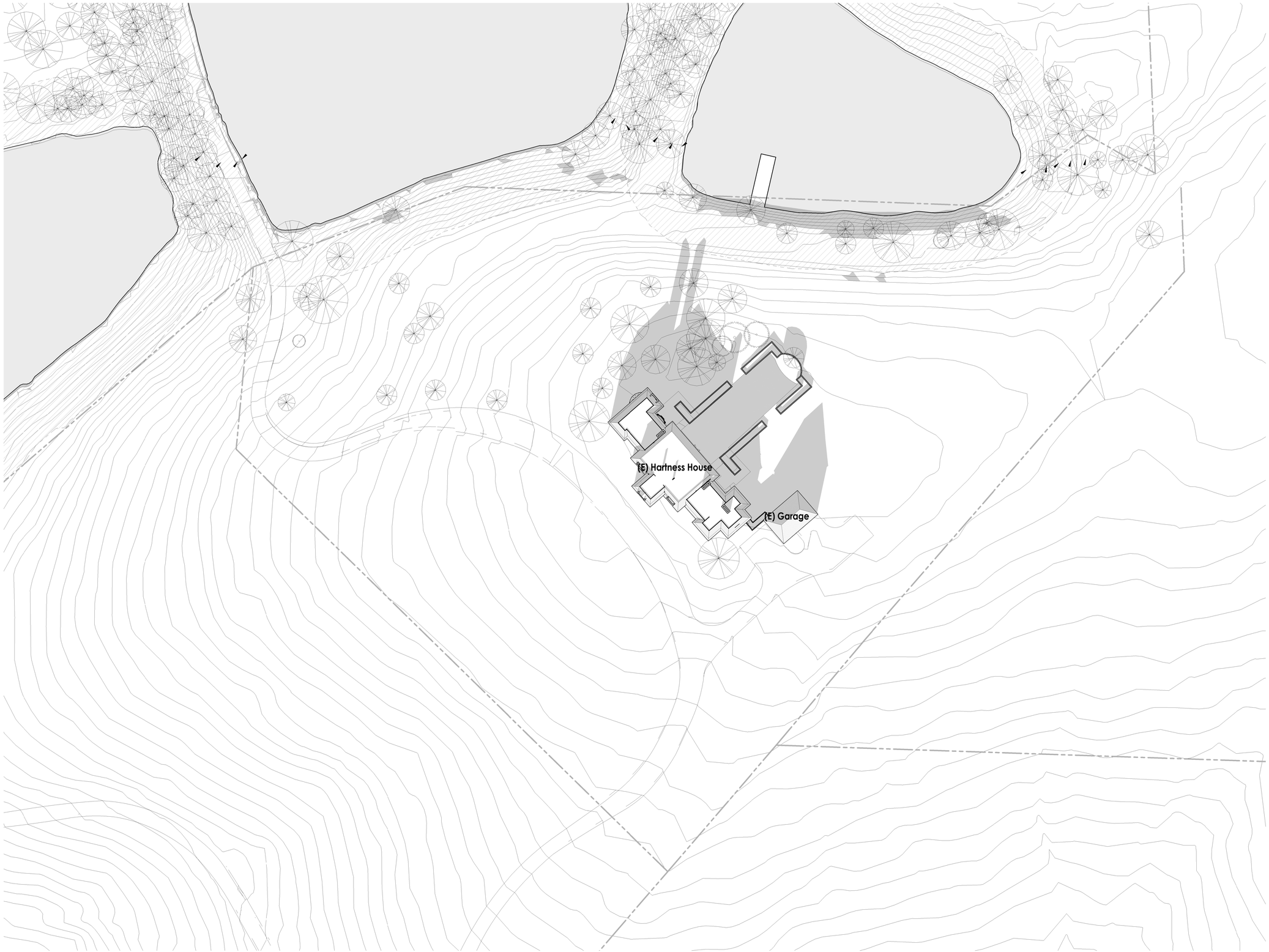

1 AD-101 Hotel Hartness Existing Site Plan
SCALE: 1" = 30'-0"

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STATE OF SOUTH CAROLINA
WILLIAM R. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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EXISTING HARTNESS SITE PLAN

AD-101
Sheet Number

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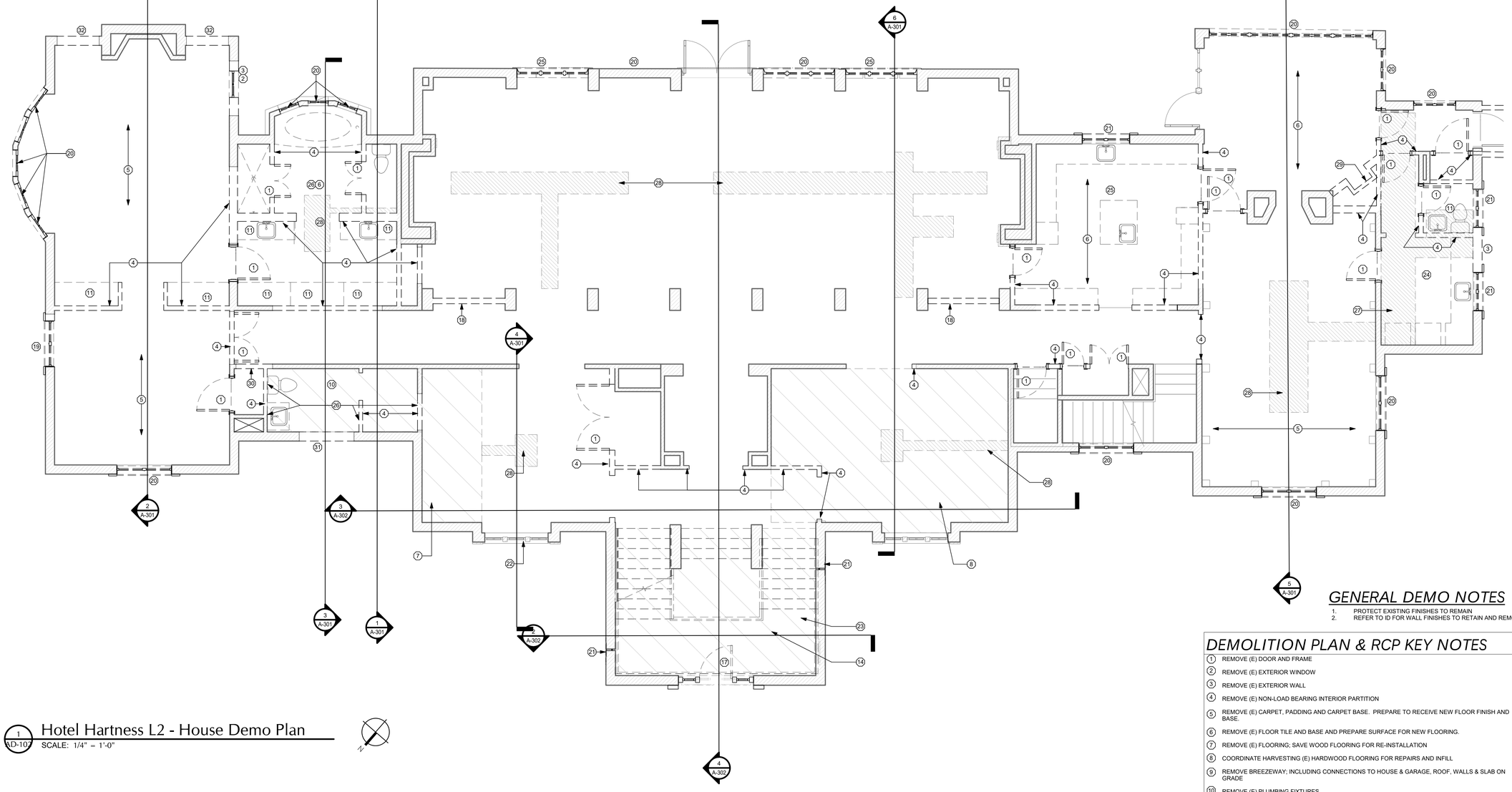
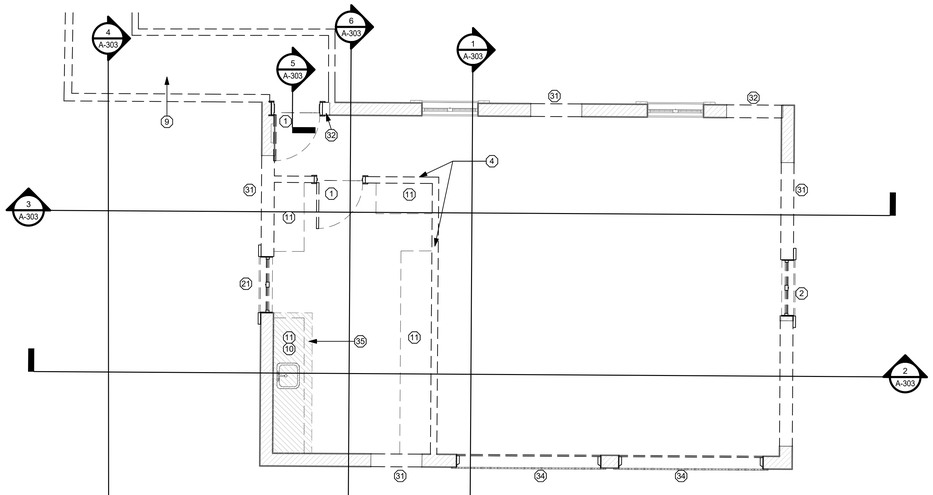


1 AD-102 Hotel Hartness L2 - House Demo Plan
SCALE: 1/4" = 1'-0"



2 AD-102 Hotel Hartness L2 - Garage Demo Plan
SCALE: 1/4" = 1'-0"

GENERAL DEMO NOTES

1. PROTECT EXISTING FINISHES TO REMAIN
2. REFER TO ID FOR WALL FINISHES TO RETAIN AND REMOVE

DEMOLITION PLAN & RCP KEY NOTES

1. REMOVE (E) DOOR AND FRAME
2. REMOVE (E) EXTERIOR WINDOW
3. REMOVE (E) EXTERIOR WALL
4. REMOVE (E) NON-LOAD BEARING INTERIOR PARTITION
5. REMOVE (E) CARPET, PADDING AND CARPET BASE. PREPARE TO RECEIVE NEW FLOOR FINISH AND BASE.
6. REMOVE (E) FLOOR TILE AND BASE AND PREPARE SURFACE FOR NEW FLOORING.
7. REMOVE (E) FLOORING; SAVE WOOD FLOORING FOR RE-INSTALLATION
8. COORDINATE HARVESTING (E) HARDWOOD FLOORING FOR REPAIRS AND INFILL
9. REMOVE BREEZEWAY; INCLUDING CONNECTIONS TO HOUSE & GARAGE, ROOF, WALLS & SLAB ON GRADE
10. REMOVE (E) PLUMBING FIXTURES
11. REMOVE (E) MILLWORK
12. REMOVE (E) KITCHEN CABINETRY, FIXTURES, AND EQUIPMENT
13. REMOVE (E0 BATHTUB
14. REMOVE (E) STAIR AND HANDRAILS; REPAIR ADJACENT WALL FINISHES
15. PROTECT (E) COFFERED CEILING
16. REMOVE (E) LIGHTING FIXTURES. PREPARE FOR NEW LIGHTING FIXTURES.
17. REMOVE (E) DOOR & SIDELITES; FRAME, SILL AND TRIM. PREPARE FOR (N) OPENING AND FRAMING
18. REMOVE (E) MILLWORK BOOKCASE
19. REMOVE (E) WINDOW; PREPARE FOR (N) DOOR
20. REMOVE (E) WINDOW; PREPARE OPENING FOR (N) WINDOW
21. REMOVE (E) WINDOW, FRAME AND TRIM; PREPARE FOR INFILL
22. REMOVE APPLIED MUNTINS FROM (E) WINDOWS
23. REMOVE (E) FLOOR & STRUCTURAL SLAB; REMOVE INTERIOR GYPSUM BOARD AT PERIMETER WALLS TO 6" ABOVE (N) SLAB
24. REMOVE (E) WASHER/DRYER, SINK, AND CABINETS & COUNTERS; PREPARE WALLS FOR (N) FINISHES
25. REMOVE (E) PLUMBING, FIXTURES, CABINETS & COUNTERS; RE-USE (E) PLUMBING AND ELECTRICAL CIRCUITS
26. REMOVE (E) PLUMBING FIXTURES; CAP CONNECTIONS AND TERMINATE UNDER SLAB/FLOOR OR IN WALL
27. TRENCH (E) SLAB FOR (N) PLUMBING
28. TRENCH (E) SLAB FOR (N) ELECTRICAL BOXES & CONDUIT
29. REMOVE (E) FIREPLACE; PATCH AND REPAIR FLUE AT PRIMARY FIREPLACE
30. REMOVE (E) PARTITION FOR (N) DOOR
31. REMOVE (E) EXTERIOR WALL FOR (N) DOOR
32. REMOVE (E) EXTERIOR WALL FOR (N) WINDOW
33. REMOVE (E) CHANDELIER; RETAIN J-BOX AND CIRCUITS FOR RE-USE
34. REMOVE (E) DOOR AND FRAME; PREPARE FOR INFILL
35. TRENCH (E) SLAB; RE-USE (E) PLUMBING AND DRAIN LINES
36. REMOVE (E) RAILING; PREPARE FOR INFILL WALL
37. REMOVE (E) CEILING-MOUNTED LIGHTING FIXTURES AND EXHAUST FANS; RETAIN CIRCUITS FOR RE-USE.
38. REMOVE (E) CEILING-MOUNTED LIGHTING FIXTURES; RETAIN CIRCUITS FOR RE-USE.
39. REMOVE (E) FAUX CEILING BEAMS
40. REMOVE (E) SOFFIT OVER WINDOWS; PREPARE FOR INSTALLATION OF NEW SOFFIT
41. REFURBISH (E) SKYLIGHT

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1	4/17/18	CONCEPT PRICING

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B	02/28/2	GMP Package
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HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED HARTNESS HOUSE L2 DEMO PLANS

AD-102
Sheet Number

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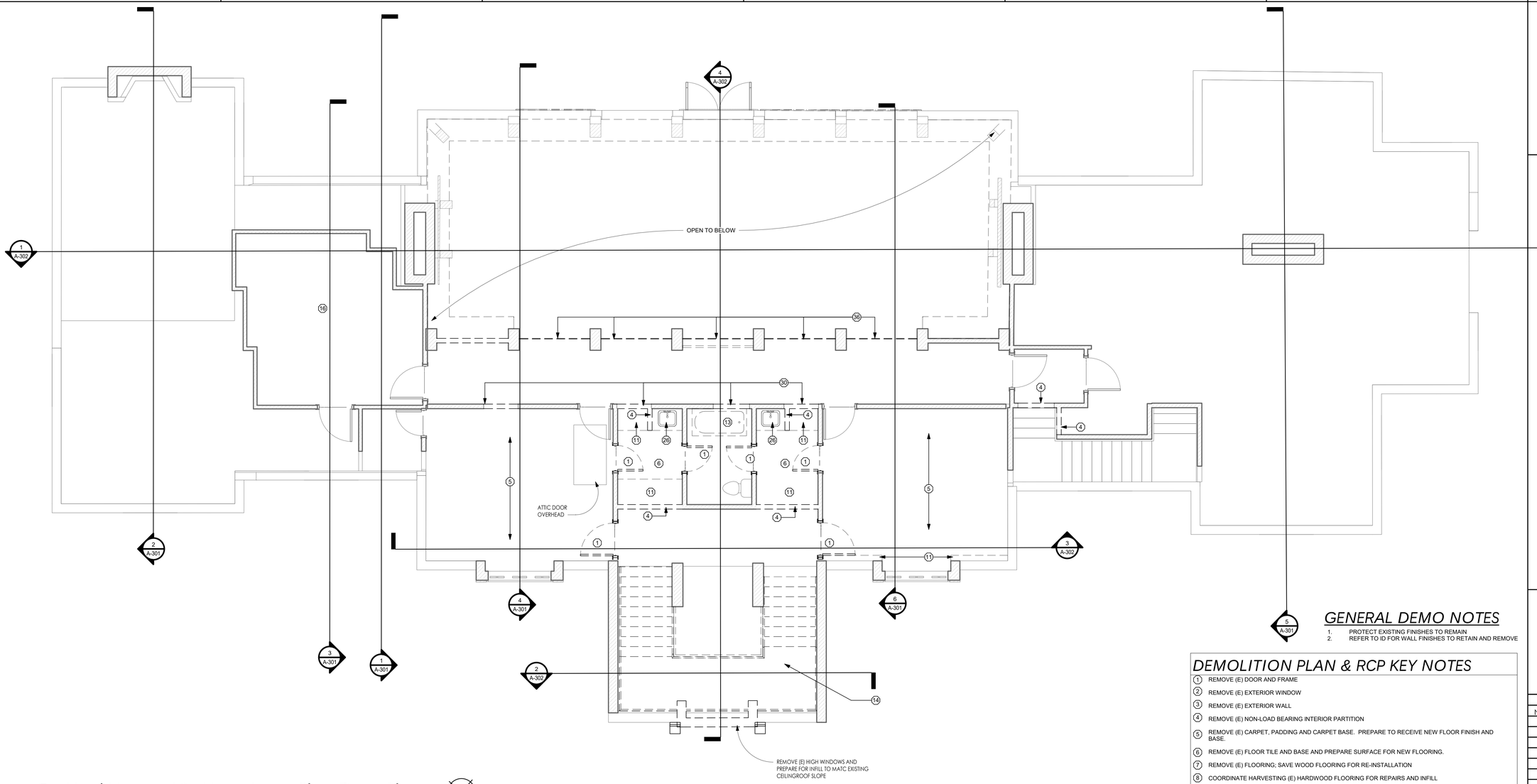

1 AD-103 Hotel Hartness L3 - House Upper Floor Demo Plan

SCALE: 1/4" = 1'-0"

GENERAL DEMO NOTES

1. PROTECT EXISTING FINISHES TO REMAIN
2. REFER TO ID FOR WALL FINISHES TO RETAIN AND REMOVE

DEMOLITION PLAN & RCP KEY NOTES

1. REMOVE (E) DOOR AND FRAME
2. REMOVE (E) EXTERIOR WINDOW
3. REMOVE (E) EXTERIOR WALL
4. REMOVE (E) NON-LOAD BEARING INTERIOR PARTITION
5. REMOVE (E) CARPET, PADDING AND CARPET BASE. PREPARE TO RECEIVE NEW FLOOR FINISH AND BASE.
6. REMOVE (E) FLOOR TILE AND BASE AND PREPARE SURFACE FOR NEW FLOORING.
7. REMOVE (E) FLOORING; SAVE WOOD FLOORING FOR RE-INSTALLATION
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13. REMOVE (E0 BATHTUB
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15. PROTECT (E) COFFERED CEILING
16. REMOVE (E) LIGHTING FIXTURES. PREPARE FOR NEW LIGHTING FIXTURES.
17. REMOVE (E) DOOR & SIDELITES; FRAME, SILL AND TRIM. PREPARE FOR (N) OPENING AND FRAMING
18. REMOVE (E) MILLWORK BOOKCASE
19. REMOVE (E) WINDOW; PREPARE FOR (N) DOOR
20. REMOVE (E) WINDOW; PREPARE OPENING FOR (N) WINDOW
21. REMOVE (E) WINDOW, FRAME AND TRIM; PREPARE FOR INFILL
22. REMOVE APPLIED MUNTINS FROM (E) WINDOWS
23. REMOVE (E) FLOOR & STRUCTURAL SLAB; REMOVE INTERIOR GYPSUM BOARD AT PERIMETER WALLS TO 6" ABOVE (N) SLAB
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SHEET ISSUE:

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1	4/17/18	CONCEPT PRICING

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NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
ENLARGED HARTNESS HOUSE L3 DEMO PLANS

AD-103
Sheet Number

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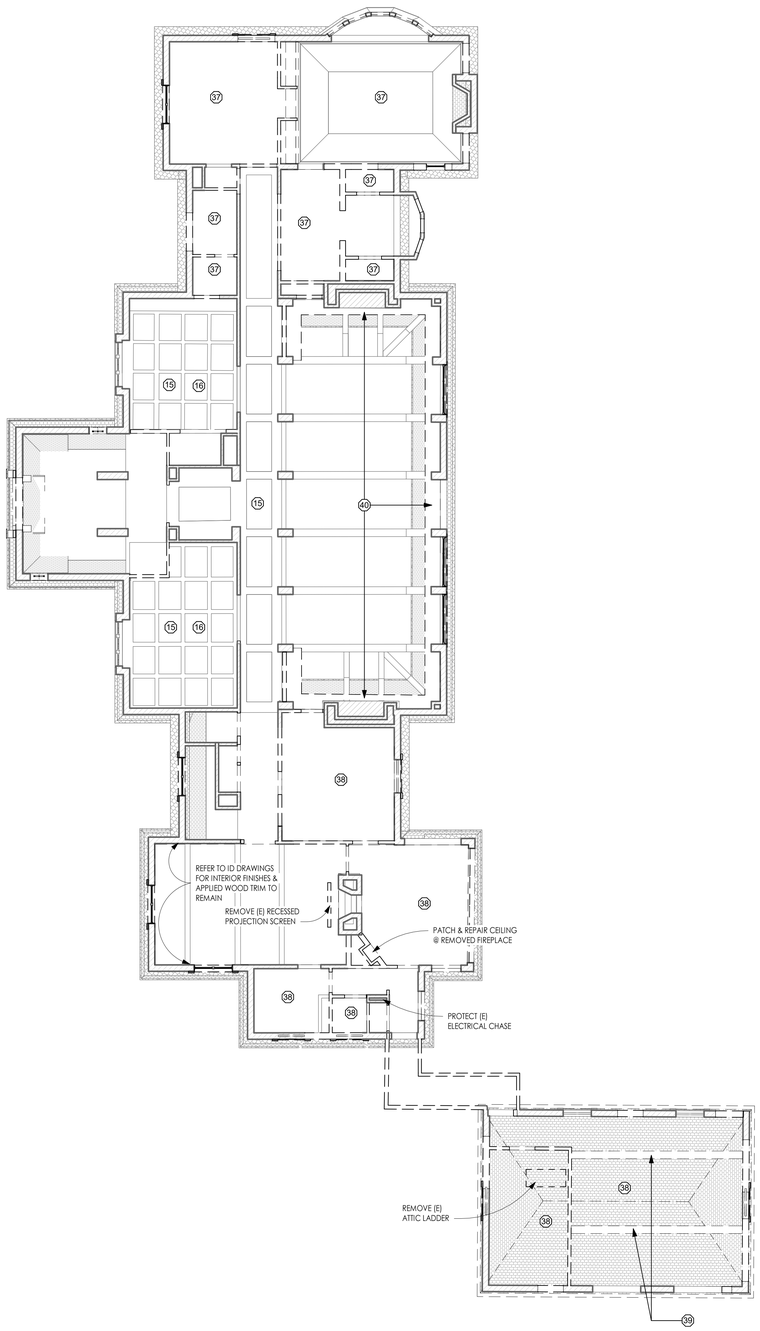
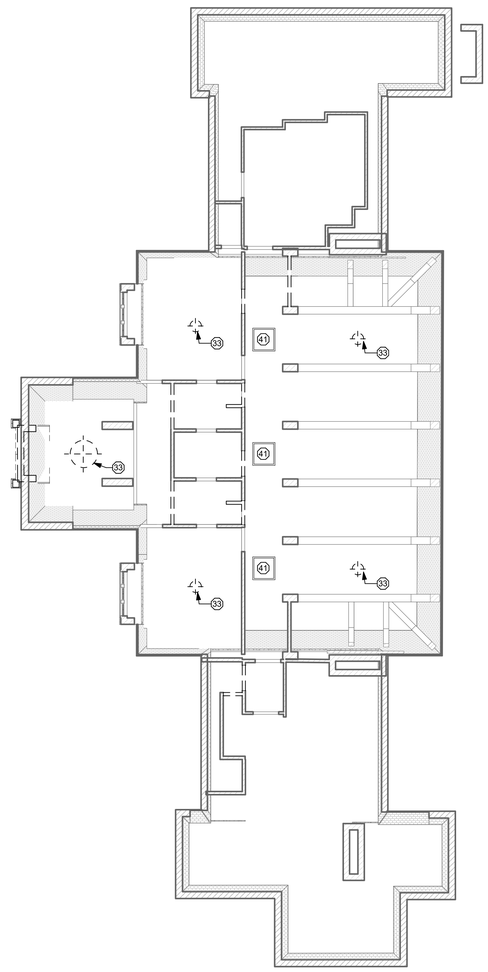


1 AD-152 HARTNESS HOUSE L2 DEMO RCP
SCALE: 1/8" = 1'-0"



2 AD-152 HARTNESS HOUSE L3 DEMO RCP
SCALE: 1/8" = 1'-0"

GENERAL DEMO NOTES

1. PROTECT EXISTING FINISHES TO REMAIN
2. REFER TO ID FOR WALL FINISHES TO RETAIN AND REMOVE

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SHEET ISSUE:

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REVISION

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HARTNESS HOUSE L2 & L3 DEMO RCPS

AD-152
Sheet Number

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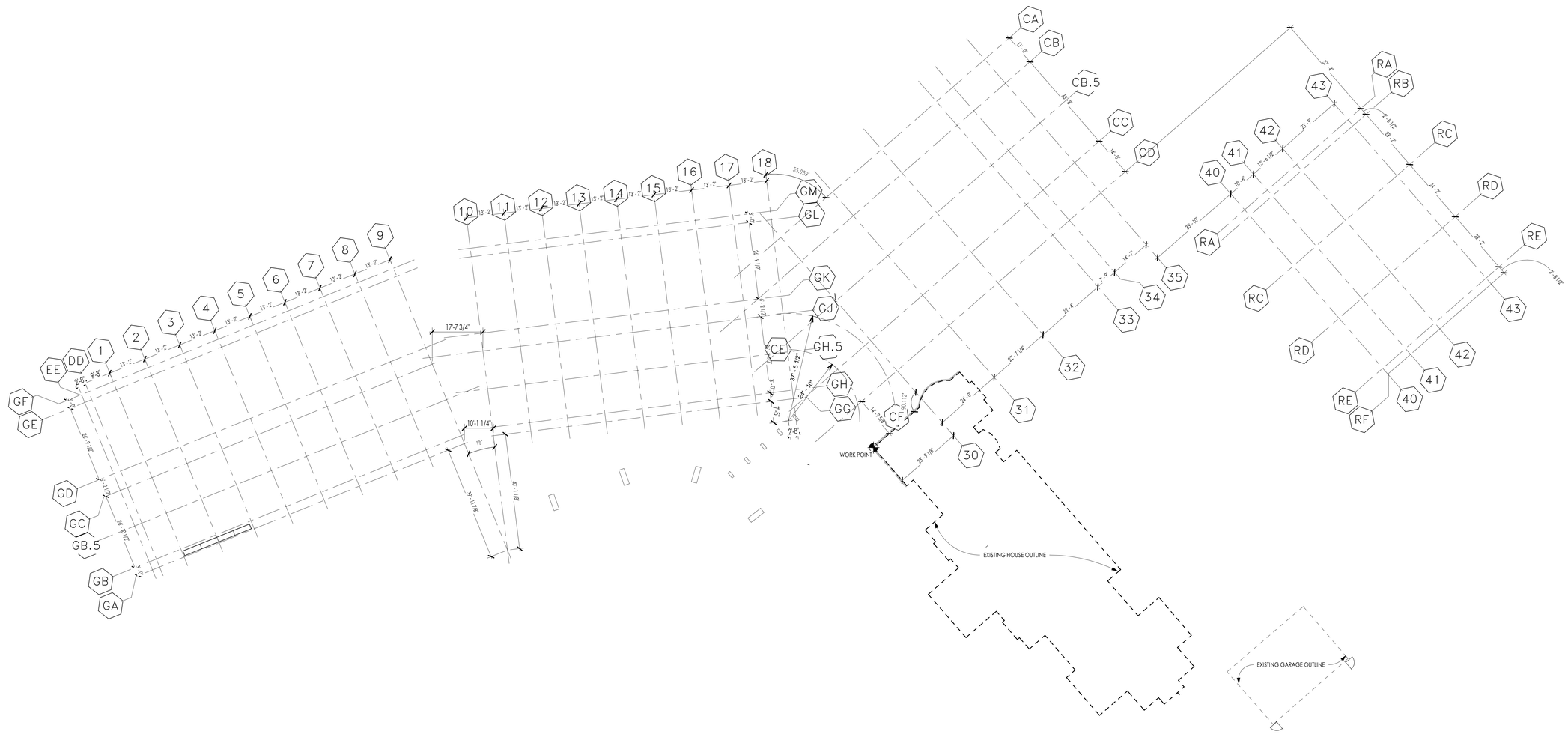

1 A-000 GRID PLAN
SCALE: 1/16" = 1'-0"

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STATE OF SOUTH CAROLINA
WILLIAM R. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
GRID PLAN

A-000
Sheet Number

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1 A-100 Hotel Hartness Site Plan

SCALE: 1" = 30'-0"

N

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HOTEL HARTNESS

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Sheet Title
SITE PLAN

A-100
Sheet Number

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1 A-101 LEVEL 1 - 898'-10.5"
SCALE: 1/16" = 1'-0"

No color scheme assigned to view

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
L1 PLAN

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Sheet Title
L2 PLAN

A-102
Sheet Number

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1 A-103 LEVEL 3 - 920'-10.5"
SCALE: 1/16" = 1'-0"

N

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
L3 PLAN

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Sheet Number

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1 A-104 LEVEL 4 - 930'-10.5"
SCALE: 1/16" = 1'-0"

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Project Number: 1801.01

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Sheet Title
L4 PLAN - ROOF

A-104
Sheet Number

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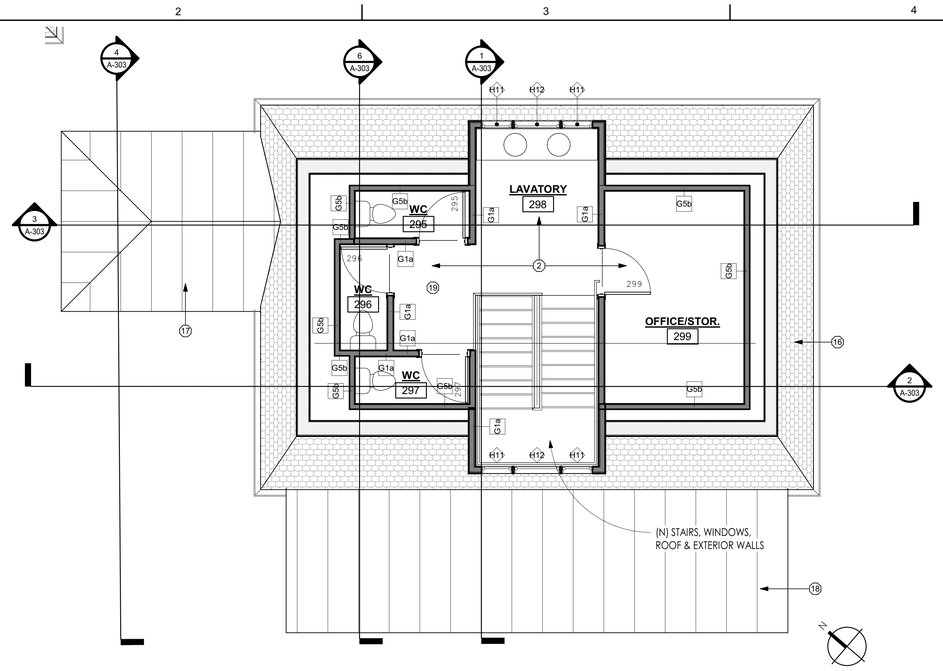
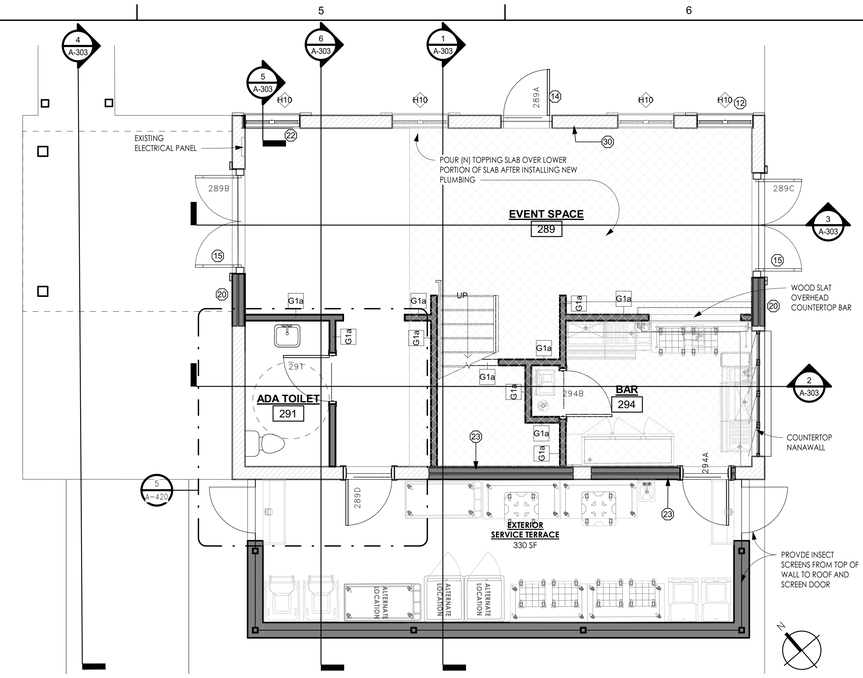
PLAN KEY NOTES

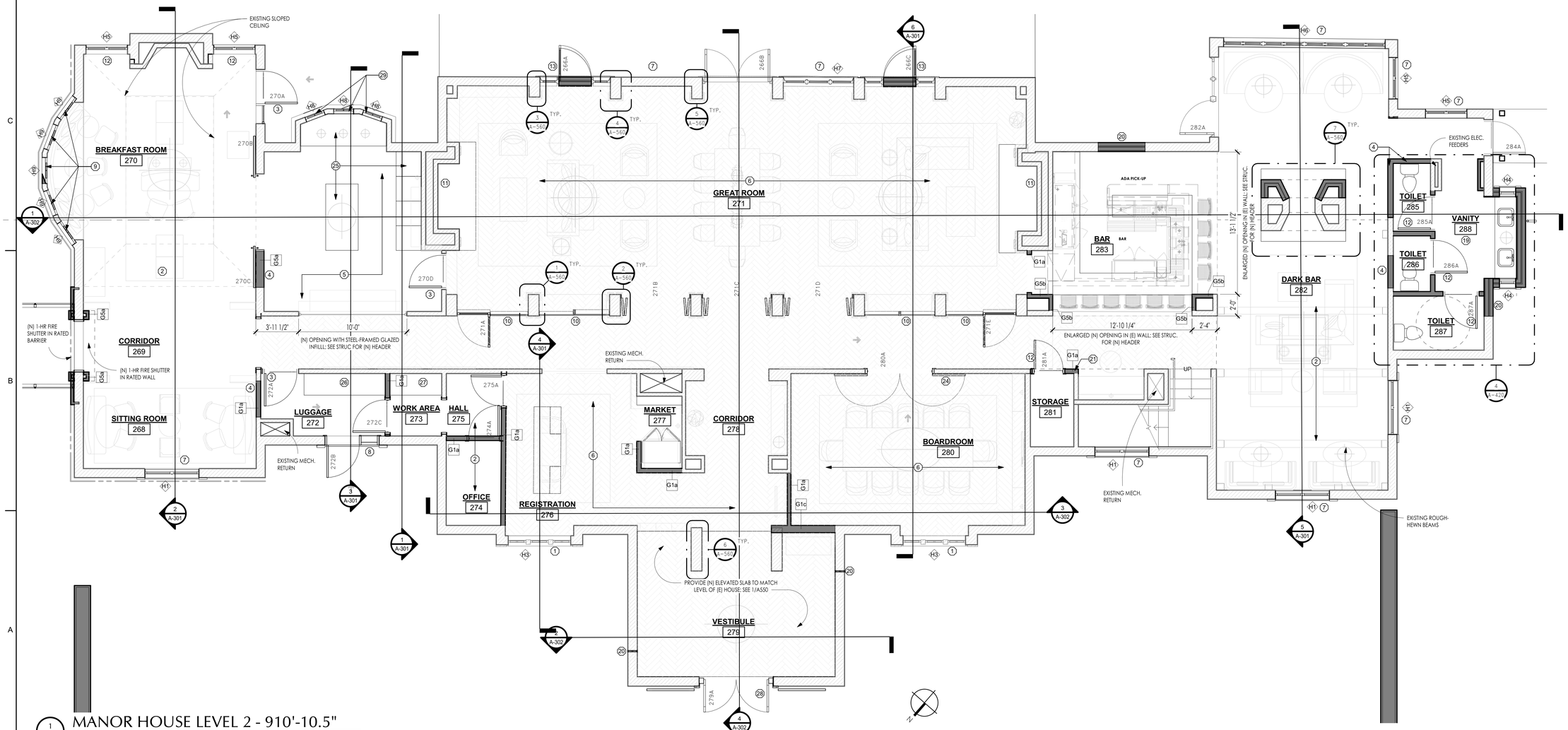
1. (N) WINDOW IN (E) FRAME
2. (N) FLOORING ON (E) SUBFLOOR
3. (N) DOOR & FRAME IN (E) WALL
4. (N) NEW PARTITION TO INFILL (E) OPENING; MATCH ADJACENT WALL THICKNESS
5. PATCH & REPAIR (E) FLOORING AFTER TRENCHING FOR (N) ELECTRIC & PLUMBING
6. PATCH & REPAIR (E) FLOORING AFTER TRENCHING FOR (N) ELECTRIC
7. (N) WINDOW & FRAME TO REPLACE (E) WINDOW
8. (N) DOOR & SIDELITE IN (E) WINDOW OPENING; LOWER SILL TO MATCH FFE & PATCH EXTERIOR WALL.
9. (N) 1-HR RATED WINDOW. HEIGHTEN SILL TO 42" AFF. PATCH (E) EXTERIOR WALL AS REQUIRED.
10. (N) STEEL-FRAMED GLAZING INFILL
11. (N) FINISHES @ EXISTING FIREPLACE
12. (N) WINDOW & FRAME IN (N) OPENING
13. (N) DOOR, WINDOW & FRAMING IN (E) OPENING; LOWER SILL @ DOOR TO MATCH FFE.
14. (N) DOOR, FRAME & TRIM
15. (N) DOOR, FRAME & TRIM IN NEW OPENING
16. (E) SLATE ROOF & GUTTERS TO REMAIN EXCEPT WHERE MODIFIED BY (N) CONSTRUCTION. TIE (N) ELEMENTS INTO (E) ROOFING
17. (N) CANOPY W/ BLACK FACTORY-FINISH STANDING SEAM METAL ROOFING
18. (N) BLACK FACTORY-FINISH STANDING SEAM METAL ROOFING
19. (N) INTERIOR PARTITIONS & PLUMBING FIXTURES
20. INFILL (E) WINDOW OPENING; MATCH EXTERIOR WALL CONSTRUCTION
21. (N) PARTITION
22. (N) WINDOW & FRAME @ EXISTING OPENING. HEIGHTEN SILL TO 20" AFF. PATCH WALL AS REQUIRED.
23. INFILL (E) EXTERIOR WALL; MATCH (E) CONSTRUCTION
24. (N) DOOR & FRAME AT ENLARGED OPENING
25. (N) COUNTERS & ISLAND
26. (N) MILLWORK LUGGAGE SHELVES; CARPET ON TOP
27. (N) LAMINATE WORK SURFACE 42" AFF
28. (N) DOOR, TRANSOM & SHUTTERS; ENLARGE (E) OPENING
29. (N) WINDOW & FRAME. HEIGHTTEN SILL TO 36" AFF. PATCH (E) EXTERIOR WALL AS REQUIRED.
30. REMOVE (E) INTERIOR DRYWALL. CLEAN WALL CAVITIES & PATCH AS REQUIRED. INSTALL BATT INSULATION FILLING CAVITY DEPTH BEFORE INSTALLING (N) 5/8" GYP. BD. LAYER.



3 A-110 MANOR HOUSE EVENT SPACE - LEVEL 3 - 910'-8.5"
SCALE: 1/4" = 1'-0"



2 A-110 MANOR HOUSE EVENT SPACE - LEVEL 2 - 910'-10.5"
SCALE: 1/4" = 1'-0"



1 A-110 MANOR HOUSE LEVEL 2 - 910'-10.5"
SCALE: 1/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED L2 HARTNESS HOUSE PLANS

A-110
Sheet Number

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PLAN KEY NOTES

1. (N) WINDOW IN (E) FRAME
2. (N) FLOORING ON (E) SUBFLOOR
3. (N) DOOR & FRAME IN (E) WALL
4. (N) NEW PARTITION TO INFILL (E) OPENING; MATCH ADJACENT WALL THICKNESS
5. PATCH & REPAIR (E) FLOORING AFTER TRENCHING FOR (N) ELECTRIC & PLUMBING
6. PATCH & REPAIR (E) FLOORING AFTER TRENCHING FOR (N) ELECTRIC
7. (N) WINDOW & FRAME TO REPLACE (E) WINDOW
8. (N) DOOR & SIDELITE IN (E) WINDOW OPENING; LOWER SILL TO MATCH FFE & PATCH EXTERIOR WALL.
9. (N) 1-HR RATED WINDOW. HEIGHTEN SILL TO 42" AFF. PATCH (E) EXTERIOR WALL AS REQUIRED.
10. (N) STEEL-FRAMED GLAZING INFILL
11. (N) FINISHES @ EXISTING FIREPLACE
12. (N) WINDOW & FRAME IN (N) OPENING
13. (N) DOOR, WINDOW & FRAMING IN (E) OPENING; LOWER SILL @ DOOR TO MATCH FFE.
14. (N) DOOR, FRAME & TRIM
15. (N) DOOR, FRAME & TRIM IN NEW OPENING
16. (E) SLATE ROOF & GUTTERS TO REMAIN EXCEPT WHERE MODIFIED BY (N) CONSTRUCTION. TIE (N) ELEMENTS INTO (E) ROOFING
17. (N) CANOPY W/ BLACK FACTORY-FINISH STANDING SEAM METAL ROOFING
18. (N) BLACK FACTORY-FINISH STANDING SEAM METAL ROOFING
19. (N) INTERIOR PARTITIONS & PLUMBING FIXTURES
20. INFILL (E) WINDOW OPENING; MATCH EXTERIOR WALL CONSTRUCTION
21. (N) PARTITION
22. (N) WINDOW & FRAME @ EXISTING OPENING. HEIGHTEN SILL TO 20" AFF. PATCH WALL AS REQUIRED.
23. INFILL (E) EXTERIOR WALL; MATCH (E) CONSTRUCTION
24. (N) DOOR & FRAME AT ENLARGED OPENING
25. (N) COUNTERS & ISLAND
26. (N) MILLWORK LUGGAGE SHELVES; CARPET ON TOP
27. (N) LAMINATE WORK SURFACE 42" AFF
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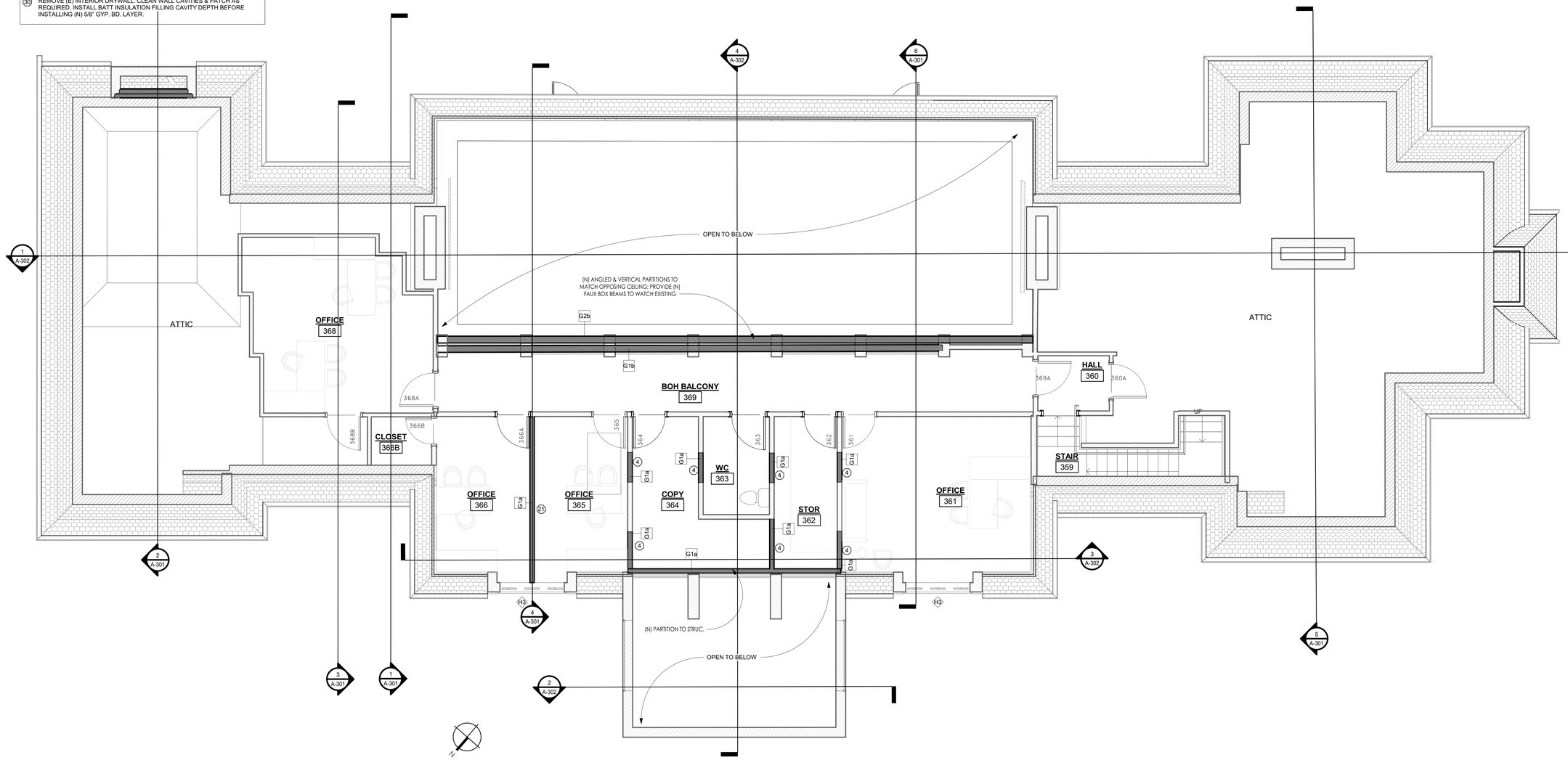

1 A-111 MANOR HOUSE LEVEL 3 - 910'-10.5"
SCALE: 1/4" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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ENLARGED L3 HARTNESS HOUSE PLANS

A-111
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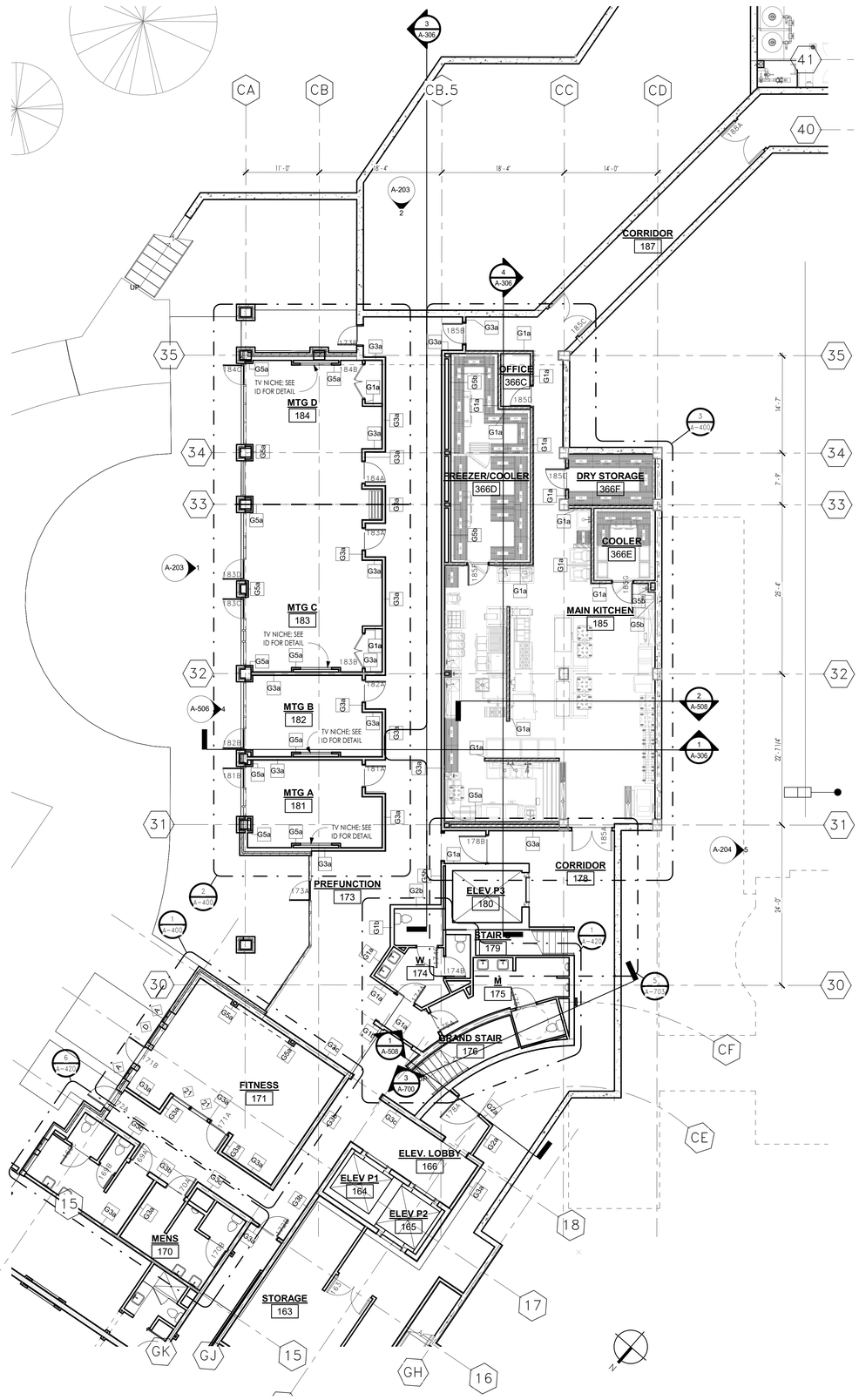
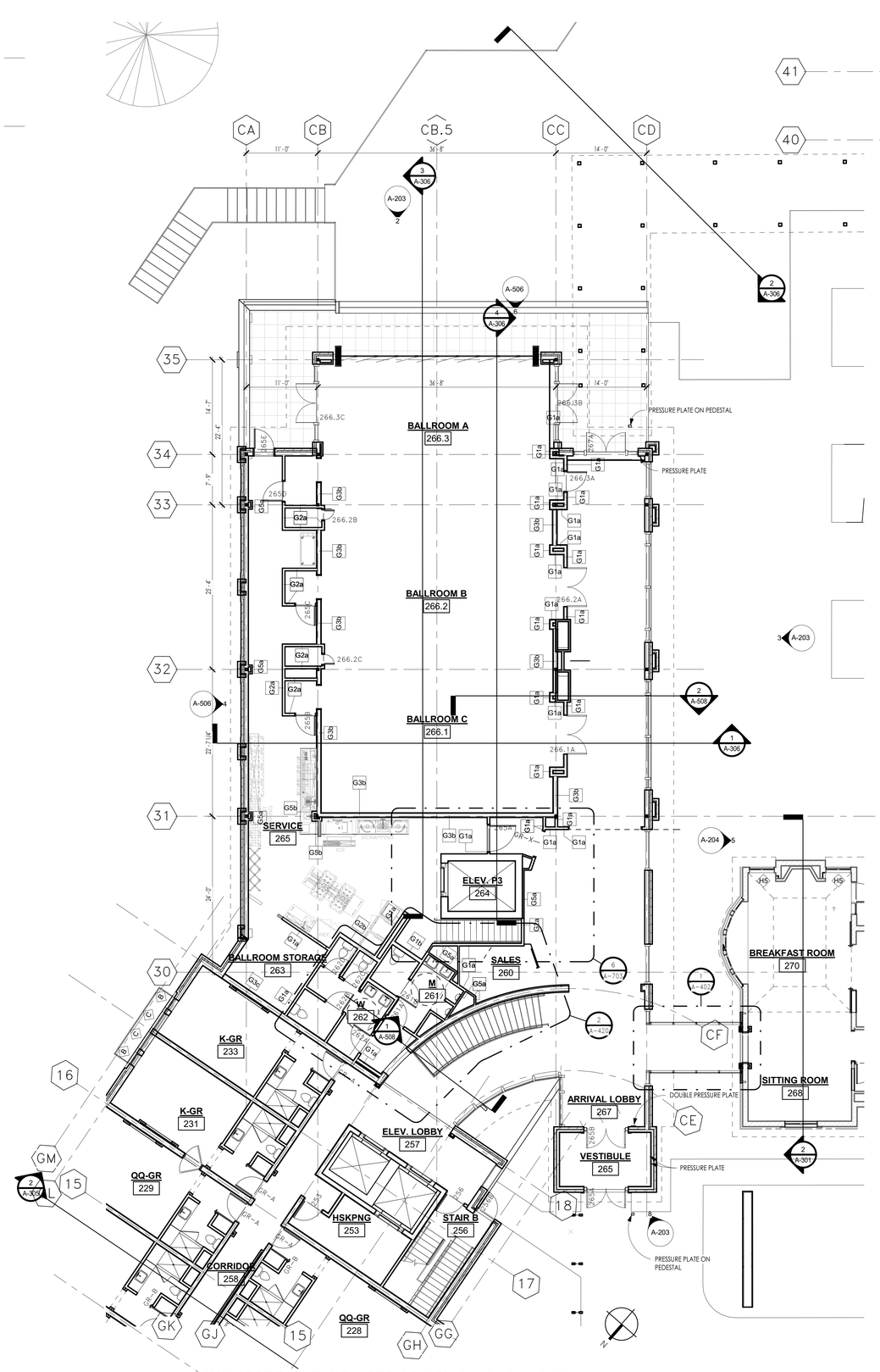


2 A-112 CONFERENCE CENTER LEVEL 1 - 898'-10.5"

SCALE: 1/8" = 1'-0"



1 A-112 CONFERENCE CENTER LEVEL 2 - 910'-10.5"

SCALE: 1/8" = 1'-0"

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STATE OF SOUTH CAROLINA
WILLIAM C. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing. The dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
ENLARGED CONFERENCE CENTER PLANS

A-112

Sheet Number

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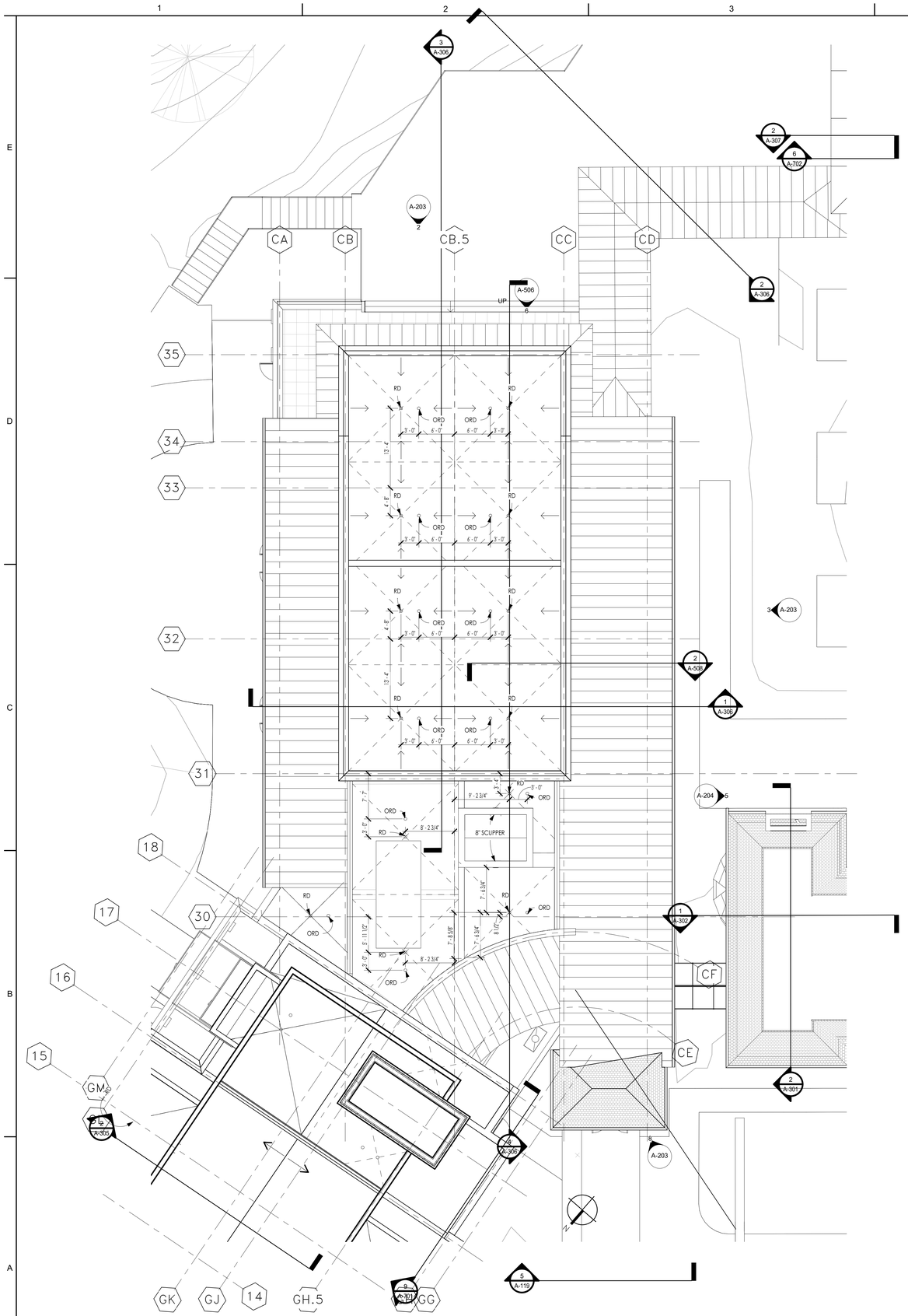

1 A-113 CONFERENCE CENTER ROOF PLAN

SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED CONFERENCE CENTER ROOF PLAN

A-113
Sheet Number

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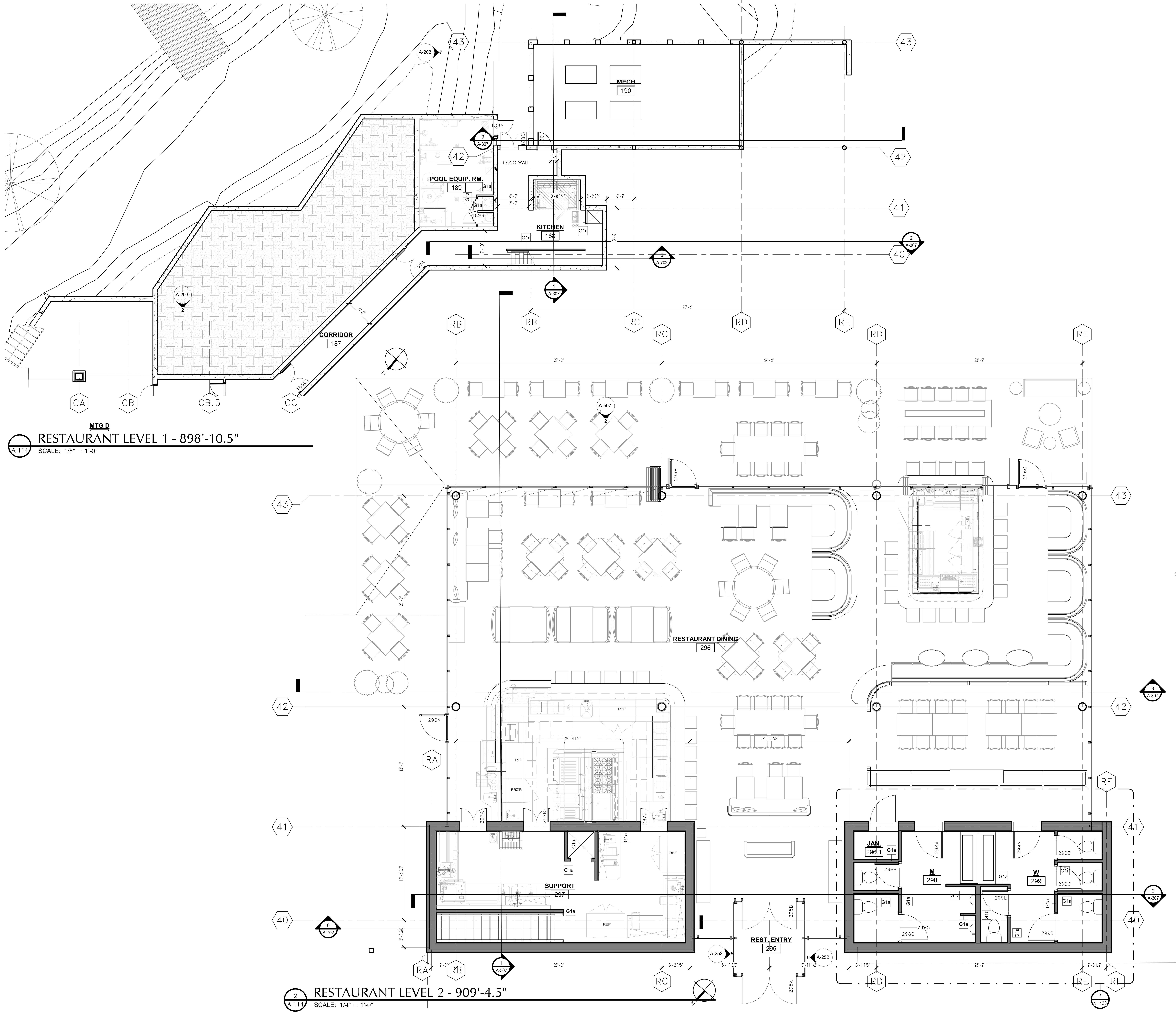

RESTAURANT LEVEL 1 - 898'-10.5"
SCALE: 1/8" = 1'-0"

RESTAURANT LEVEL 2 - 909'-4.5"
SCALE: 1/4" = 1'-0"

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Sheet Title
ENLARGED RESTAURANT PLANS

A-114
Sheet Number

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ACCESSIBLE UNIT DISPERSION

MOBILITY ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
221	K-GR
316	QQ-GR
302	JR

COMMUNICATION ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
121	KK-GR
216	DELUXE K
225	QQ-GR
308	QQ-GR
312	DELUXE JR SUITE
315	JUNIOR SUITE

SEE G-001 FOR MOBILITY AND COMMUNICATION FEATURE INFO AND DETAILS

1 A-115 HOTEL LEVEL 1 - 898'-10.5"
SCALE: 1/8" = 1'-0"

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RESTAURANT DESIGN
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Owners Consultants

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LANDDESIGN

LANDSCAPE ARCHITECT
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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Sheet Title
ENLARGED L1 HOTEL PLAN

A-115
Sheet Number

NOT ISSUED FOR CONSTRUCTION

ACCESSIBLE UNIT DISPERSION

MOBILITY ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
221	K-GR
316	QQ-GR
302	JR

COMMUNICATION ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
121	KK-GR
216	DELUXE K
225	QQ-GR
308	QQ-GR
312	DELUXE JR SUITE
315	JUNIOR SUITE

SEE G-001 FOR MOBILITY AND COMMUNICATION FEATURE INFO AND DETAILS

1 A-116 HOTEL LEVEL 2 - 910'-10.5"
SCALE: 1/8" = 1'-0"

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Sheet Title
ENLARGED L2 HOTEL PLAN

A-116
Sheet Number

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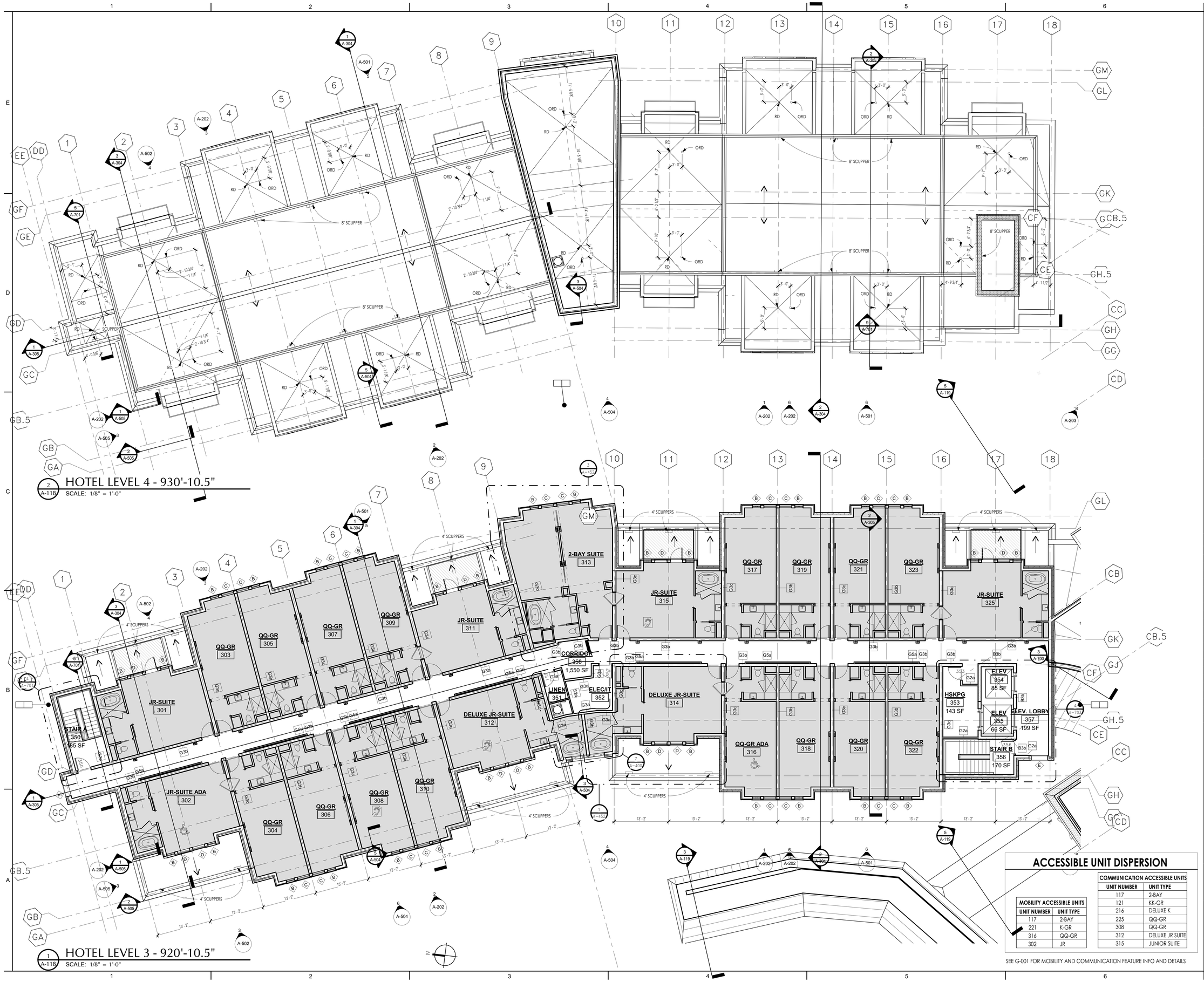

ACCESSIBLE UNIT DISPERSION

MOBILITY ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
221	K-GR
316	QQ-GR
302	JR

COMMUNICATION ACCESSIBLE UNITS	
UNIT NUMBER	UNIT TYPE
117	2-BAY
121	KK-GR
216	DELUXE K
225	QQ-GR
308	QQ-GR
312	DELUXE JR SUITE
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SEE G-001 FOR MOBILITY AND COMMUNICATION FEATURE INFO AND DETAILS

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STATE OF SOUTH CAROLINA
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NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED L3 & L4 HOTEL PLAN

A-118
Sheet Number

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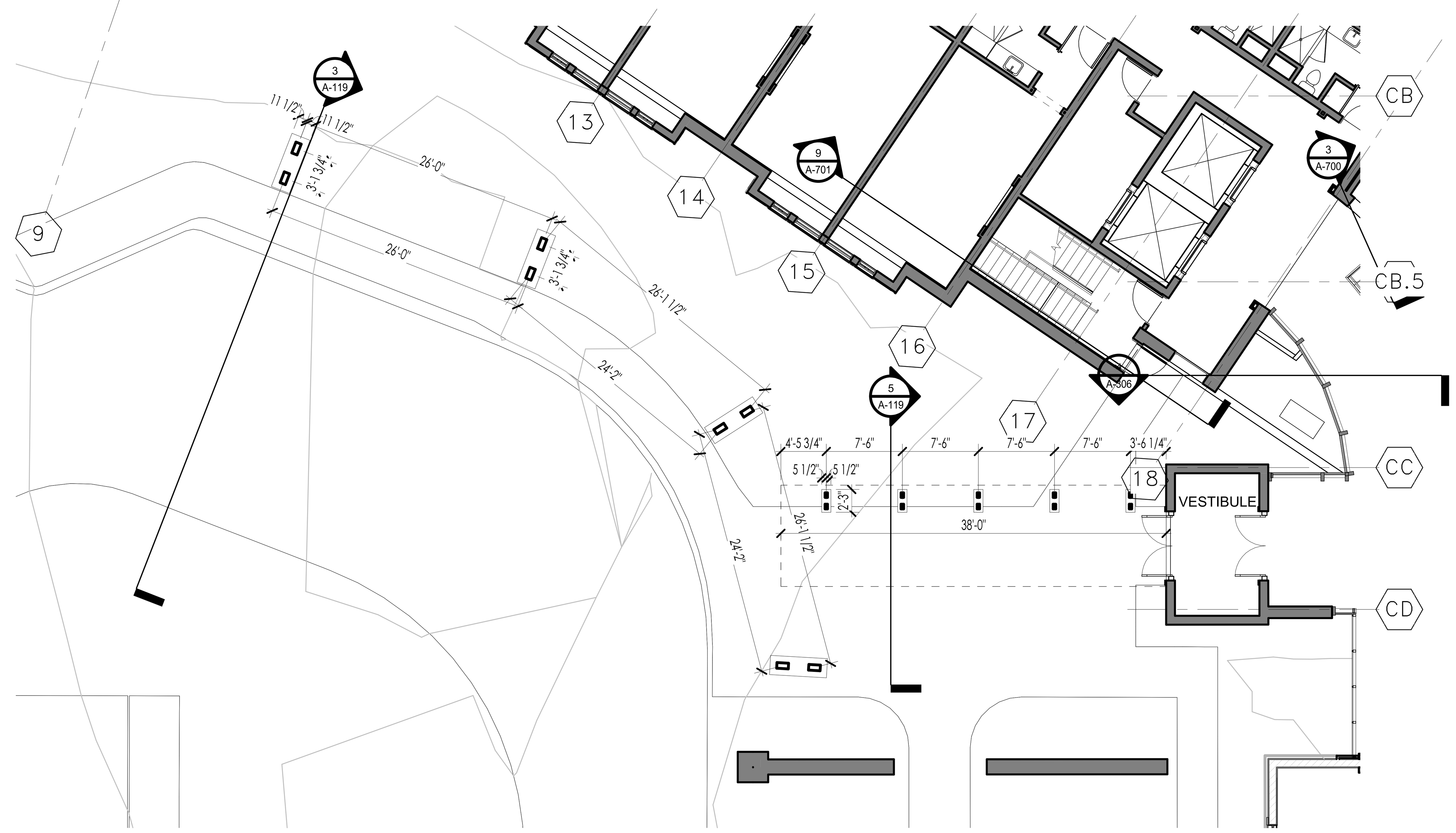
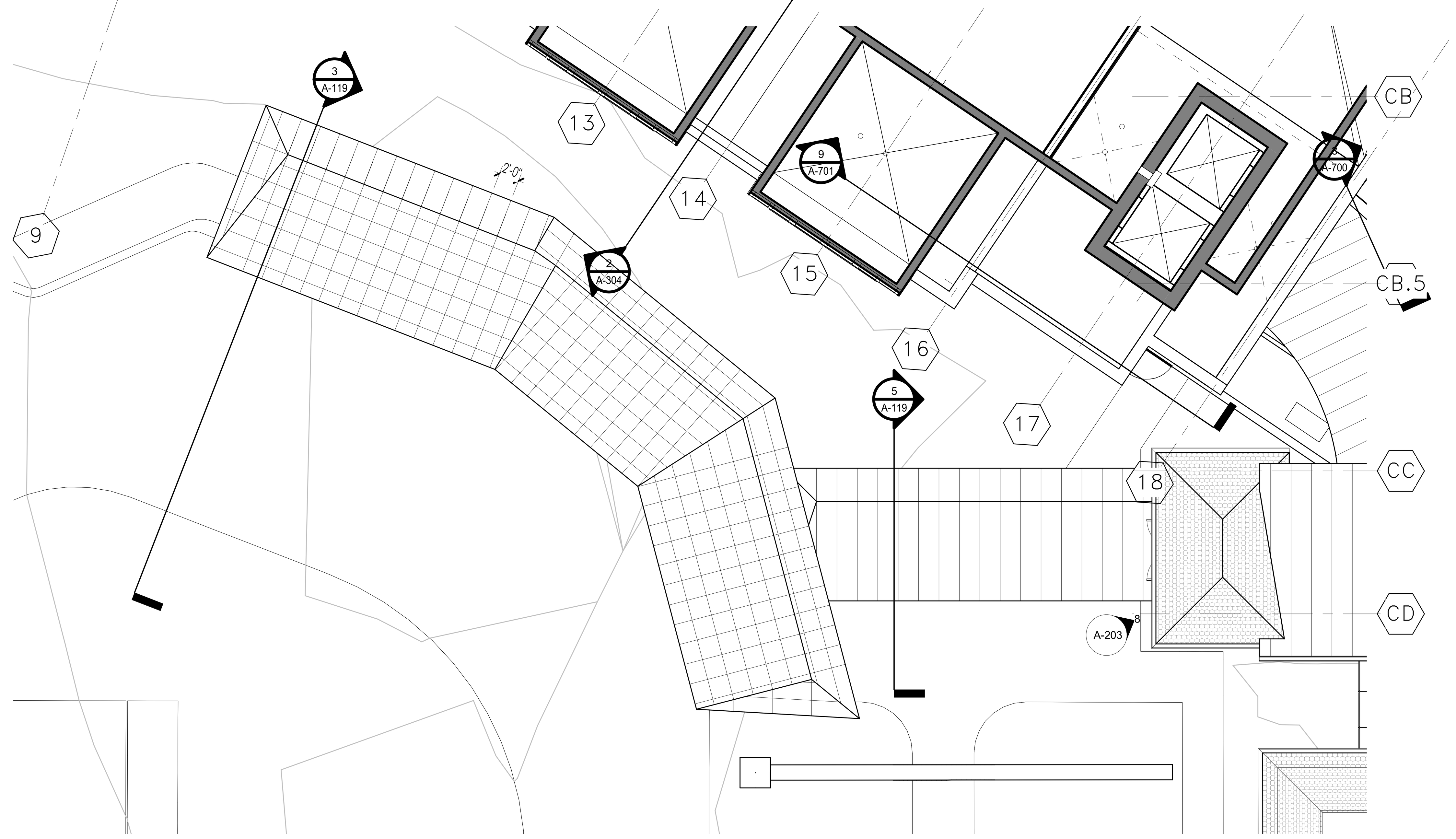
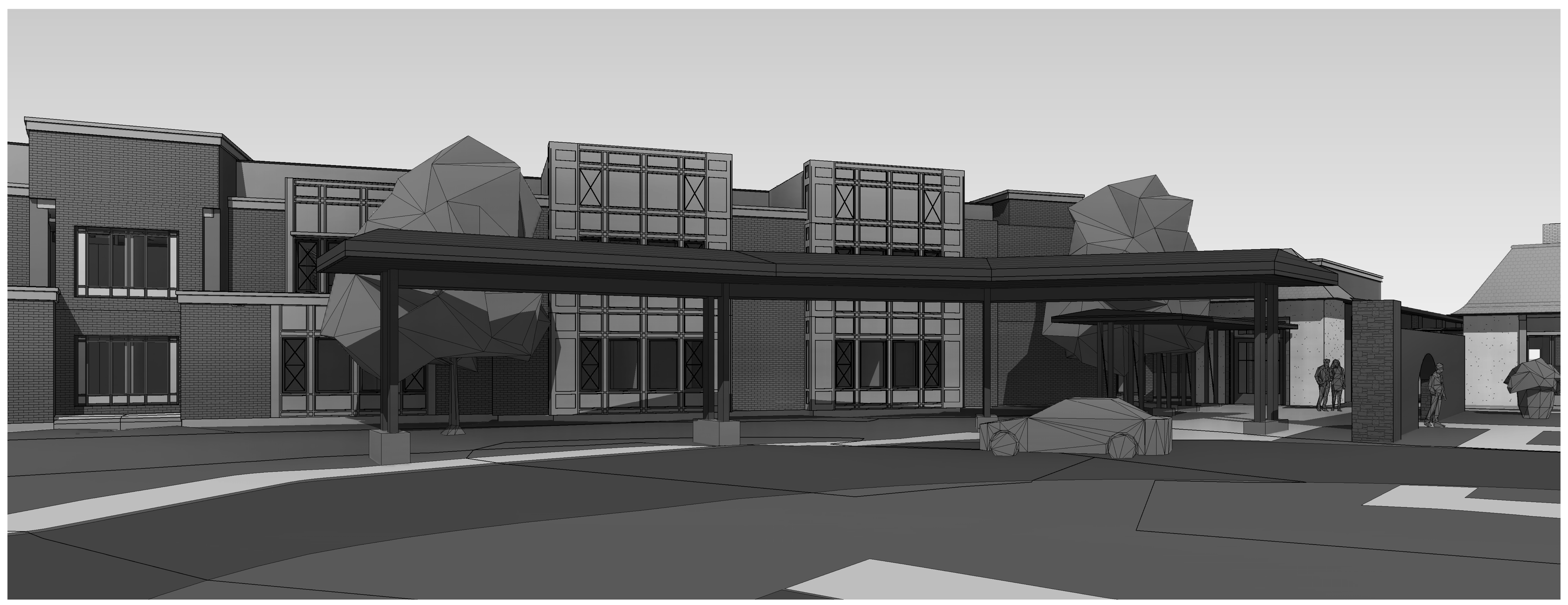


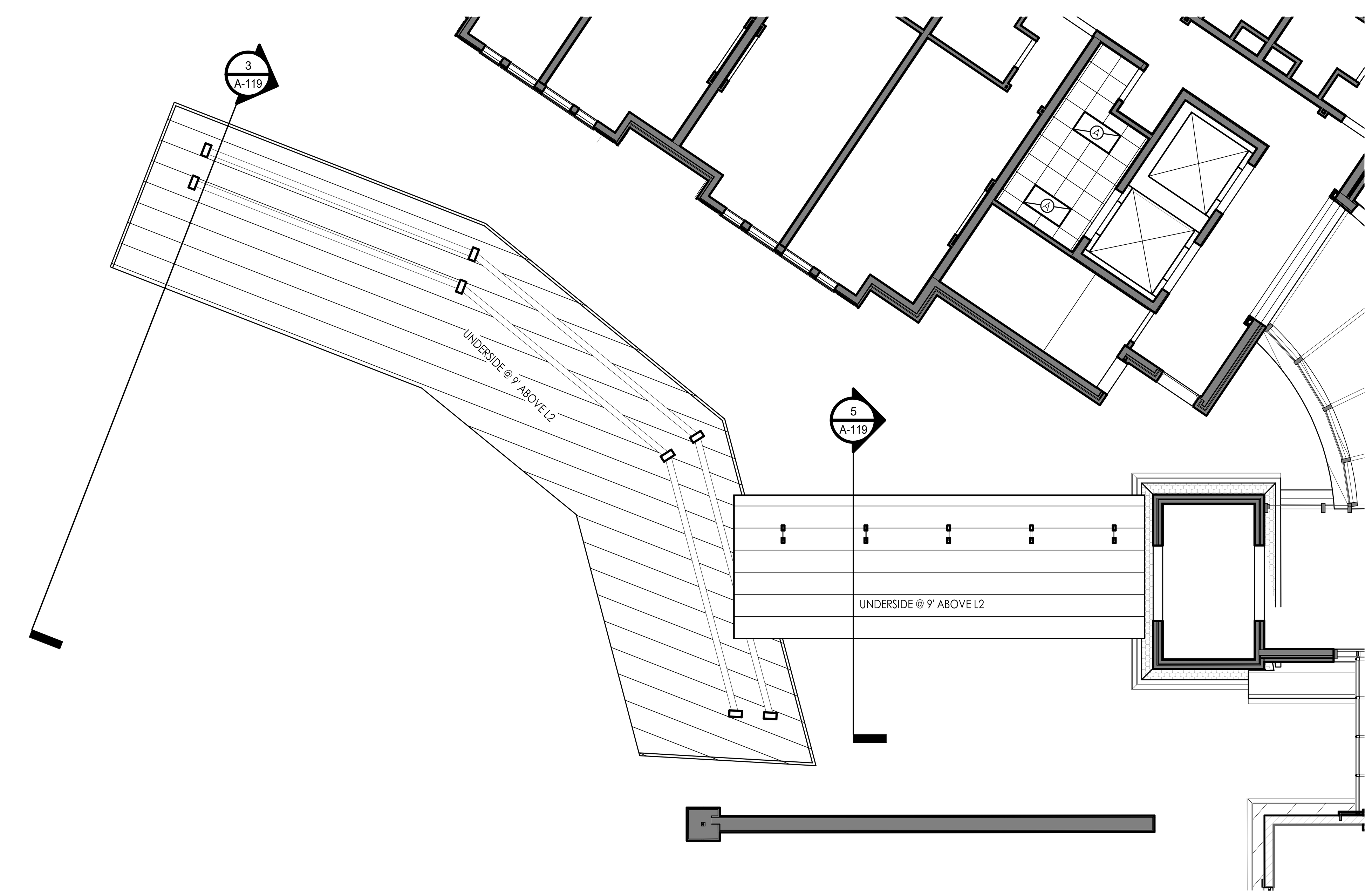
1 A-119 ENLARGED PLAN - PORTE COCHERE
SCALE: 1/8" = 1'-0"



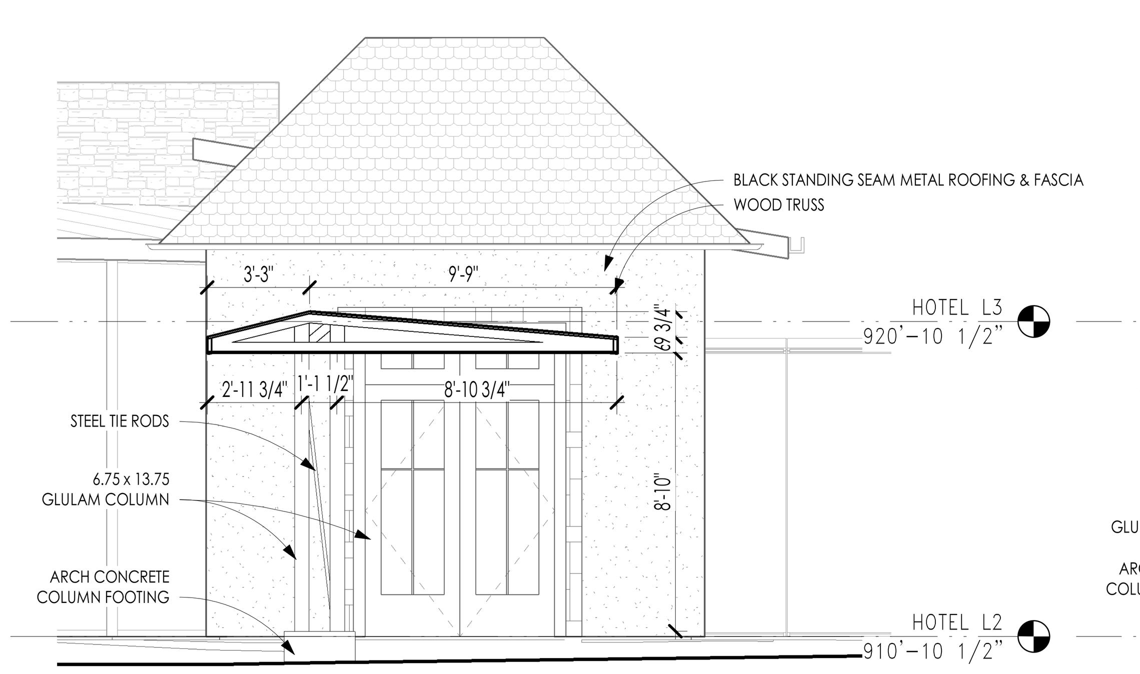
2 A-119 ENLARGED PLAN - PORTE COCHERE ROOF
SCALE: 1/8" = 1'-0"



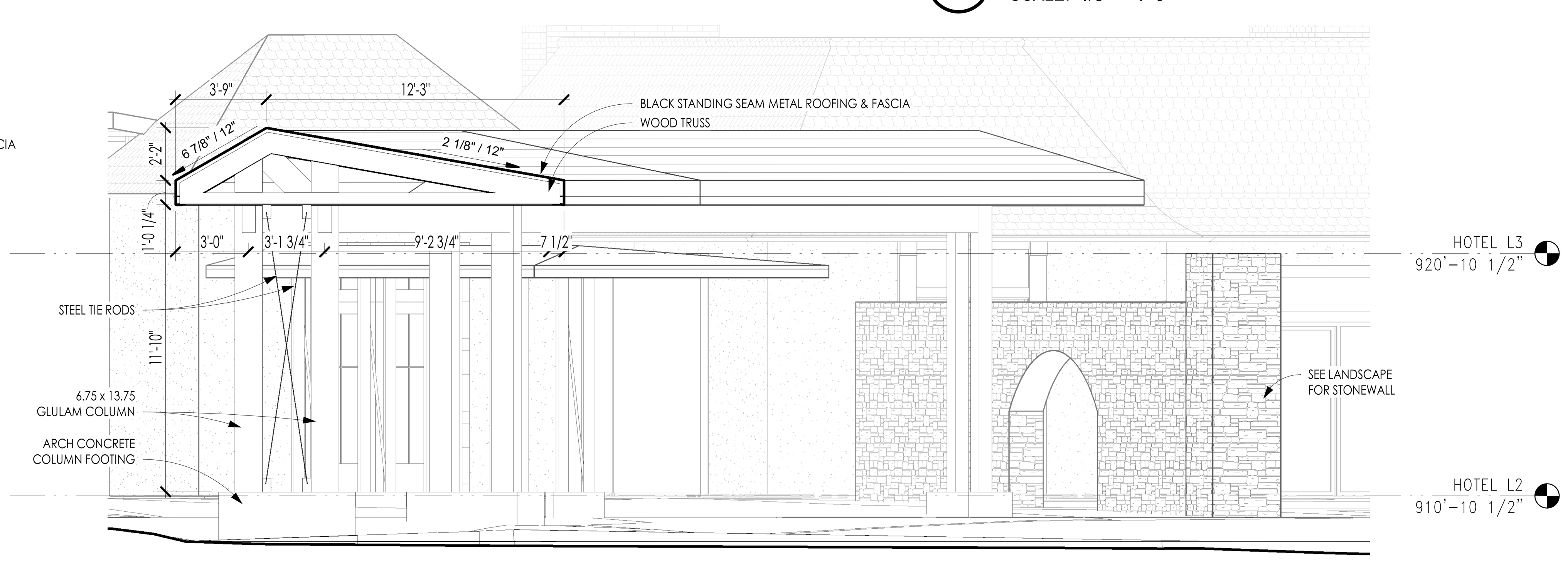
6 A-119 3D View 30
SCALE:



4 A-119 RCP - PORTE COCHERE
SCALE: 1/8" = 1'-0"



5 A-119 PORTE COCHERE SECTION 2
SCALE: 1/4" = 1'-0"



3 A-119 PORTE COCHERE SECTION 1
SCALE: 1/4" = 1'-0"

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No. 7703

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
PORTE COCHERE ENLARGED PLANS

A-119
Sheet Number

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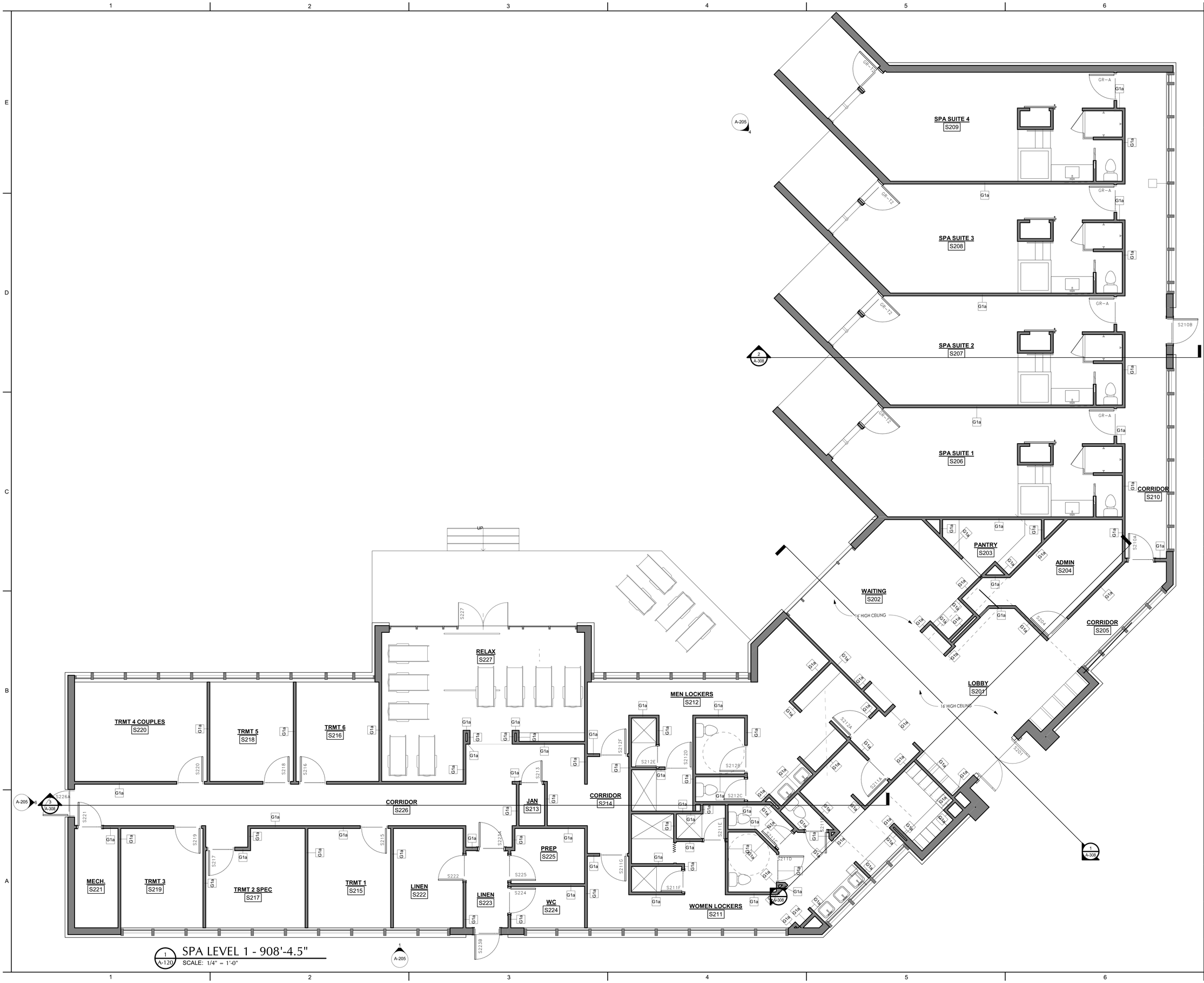

1 A-120 SPA LEVEL 1 - 908'-4.5"
SCALE: 1/4" = 1'-0"

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Sheet Title
SPA PLAN

A-120
Sheet Number

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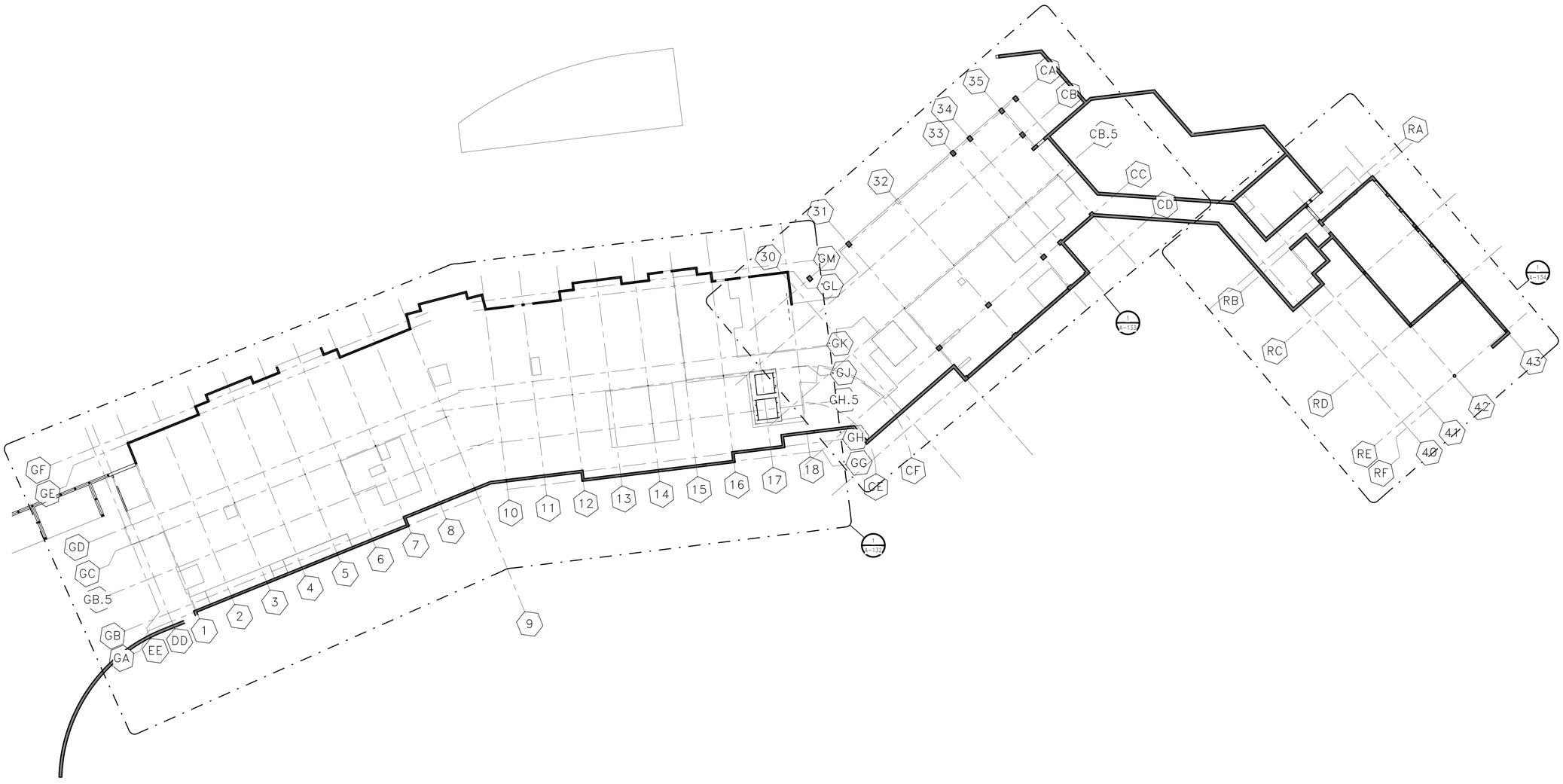

1 A-130 SLAB PLAN - LEVEL 1 - 898'-10.5"

SCALE: 1/16" = 1'-0"

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Sheet Title
L1 OVERALL SLAB PLAN

A-130
Sheet Number

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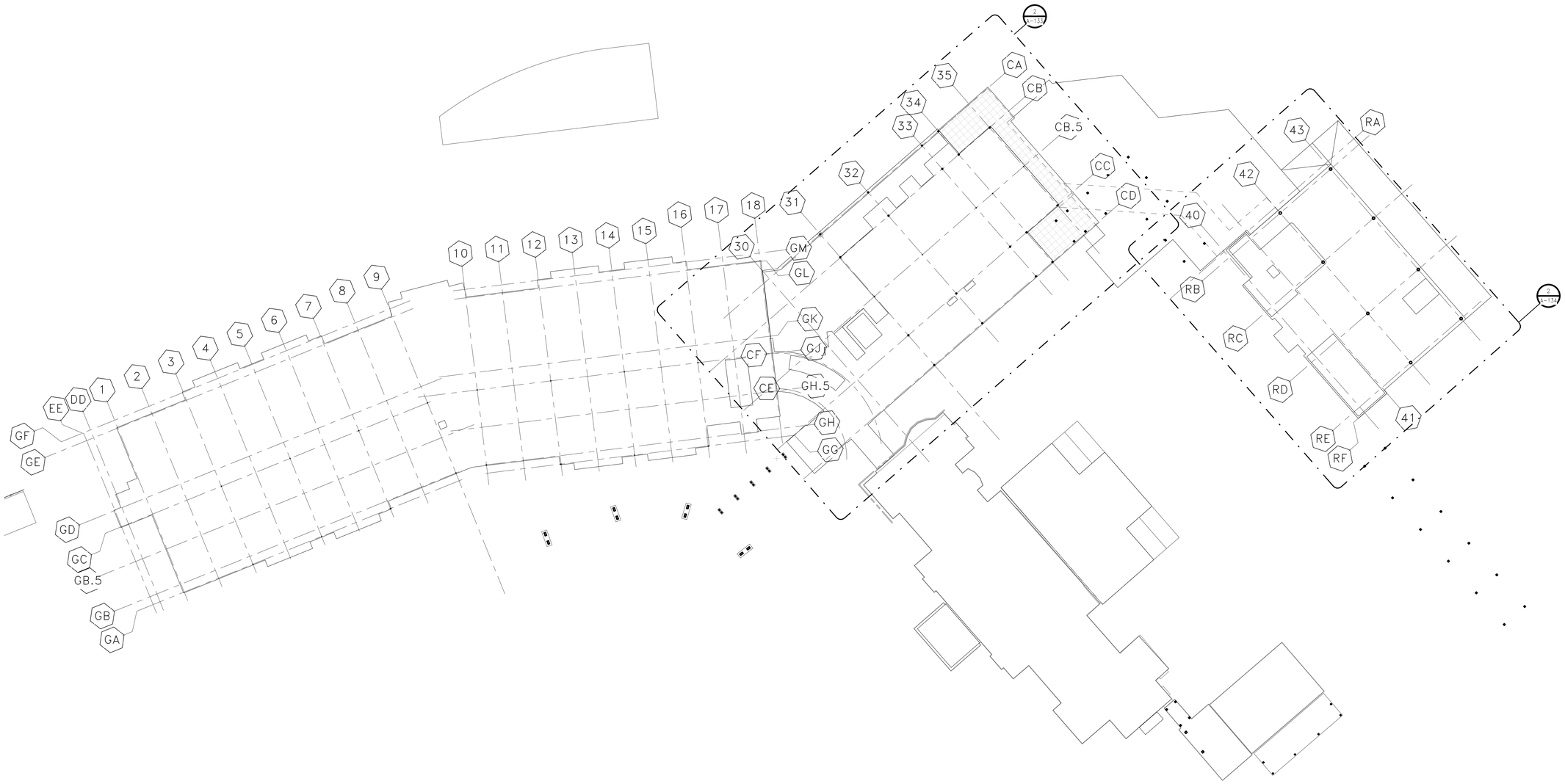

1 A-131 SLAB PLAN - LEVEL 2 - 910'-10.5"

SCALE: 1/16" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
A	02/19/2020	Footings & Found. Permit
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
L2 OVERALL SLAB PLAN

A-131
Sheet Number

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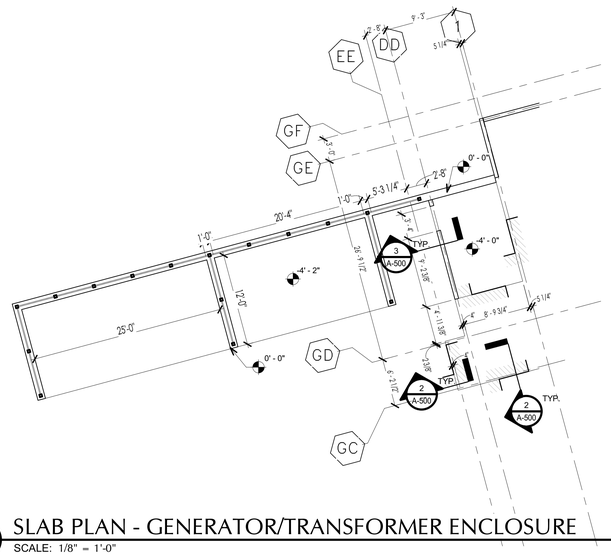

2 A-132 SLAB PLAN - GENERATOR/TRANSFORMER ENCLOSURE
SCALE: 1/8" = 1'-0"

1 A-132 SLAB PLAN - HOTEL LEVEL 1 - 898'-10.5"
SCALE: 1/8" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HOTEL L1 - SLAB PLAN

A-132
Sheet Number

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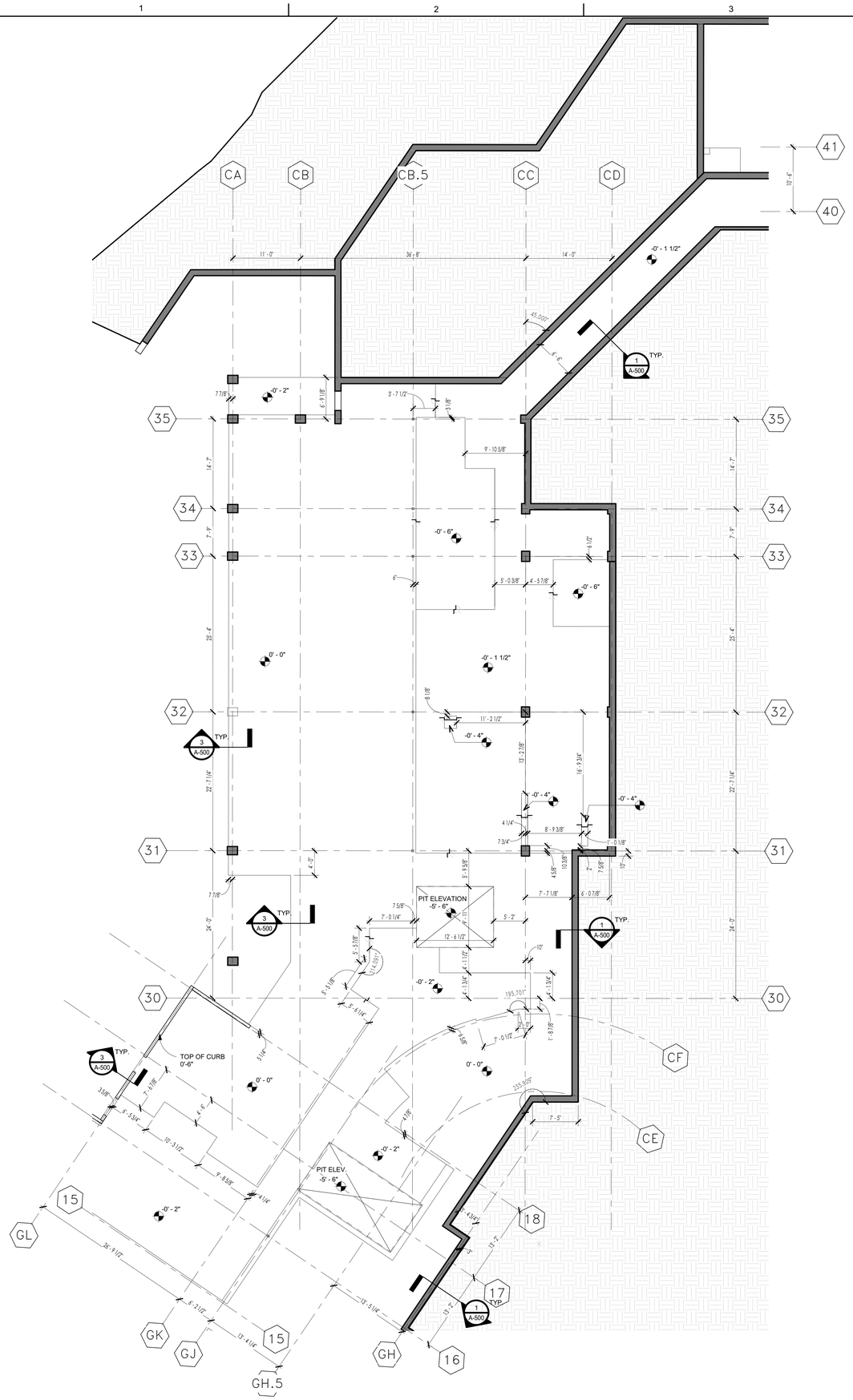
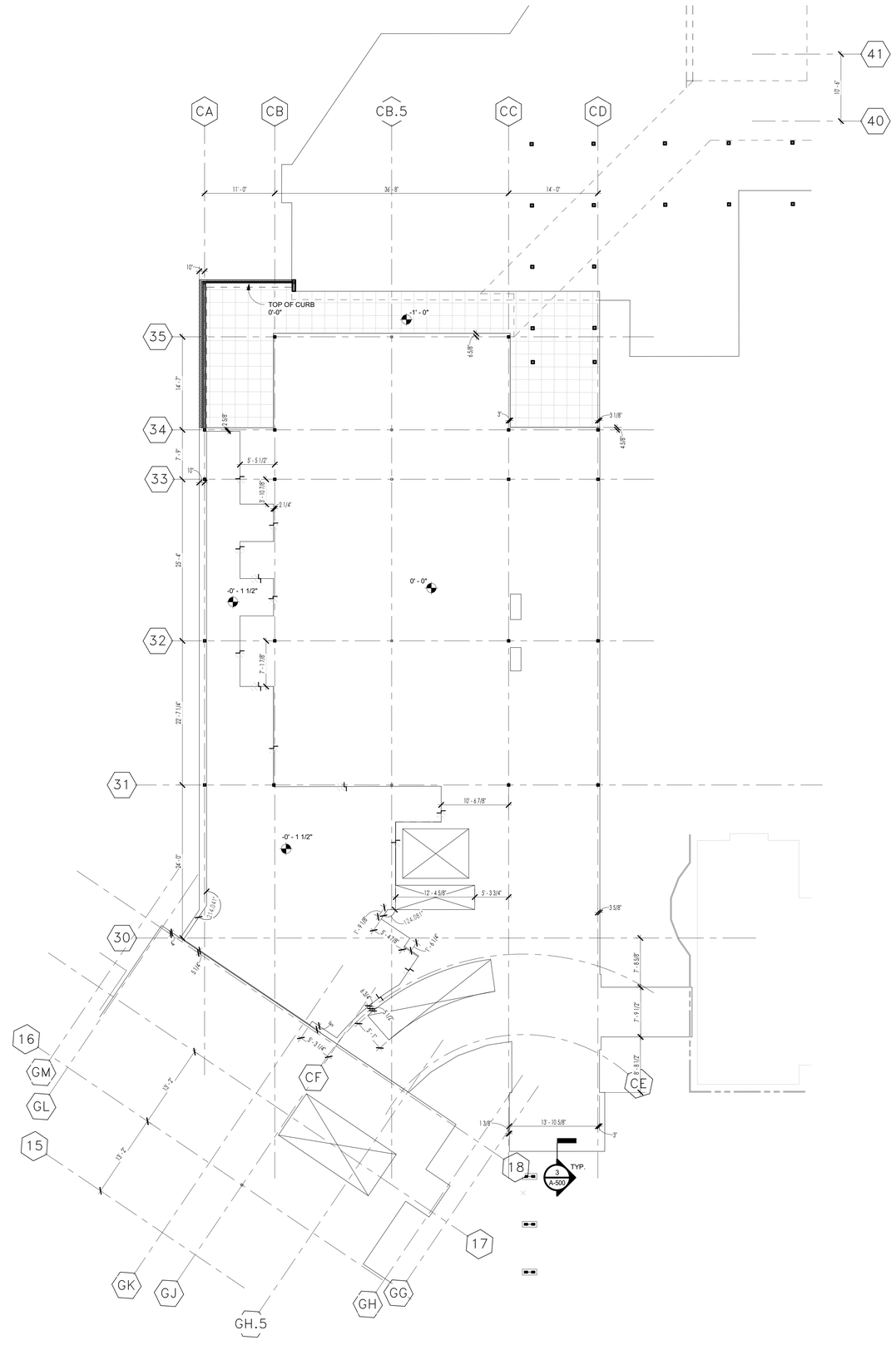


1 A-133 SLAB PLAN - CONFERENCE CENTER LEVEL 1 - 898'-10.5"

SCALE: 1/8" = 1'-0"



2 A-133 SLAB PLAN - CONFERENCE CENTER LEVEL 2 - 910'-10.5"

SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
CONFERENCE CENTER - SLAB PLANS

A-133
Sheet Number

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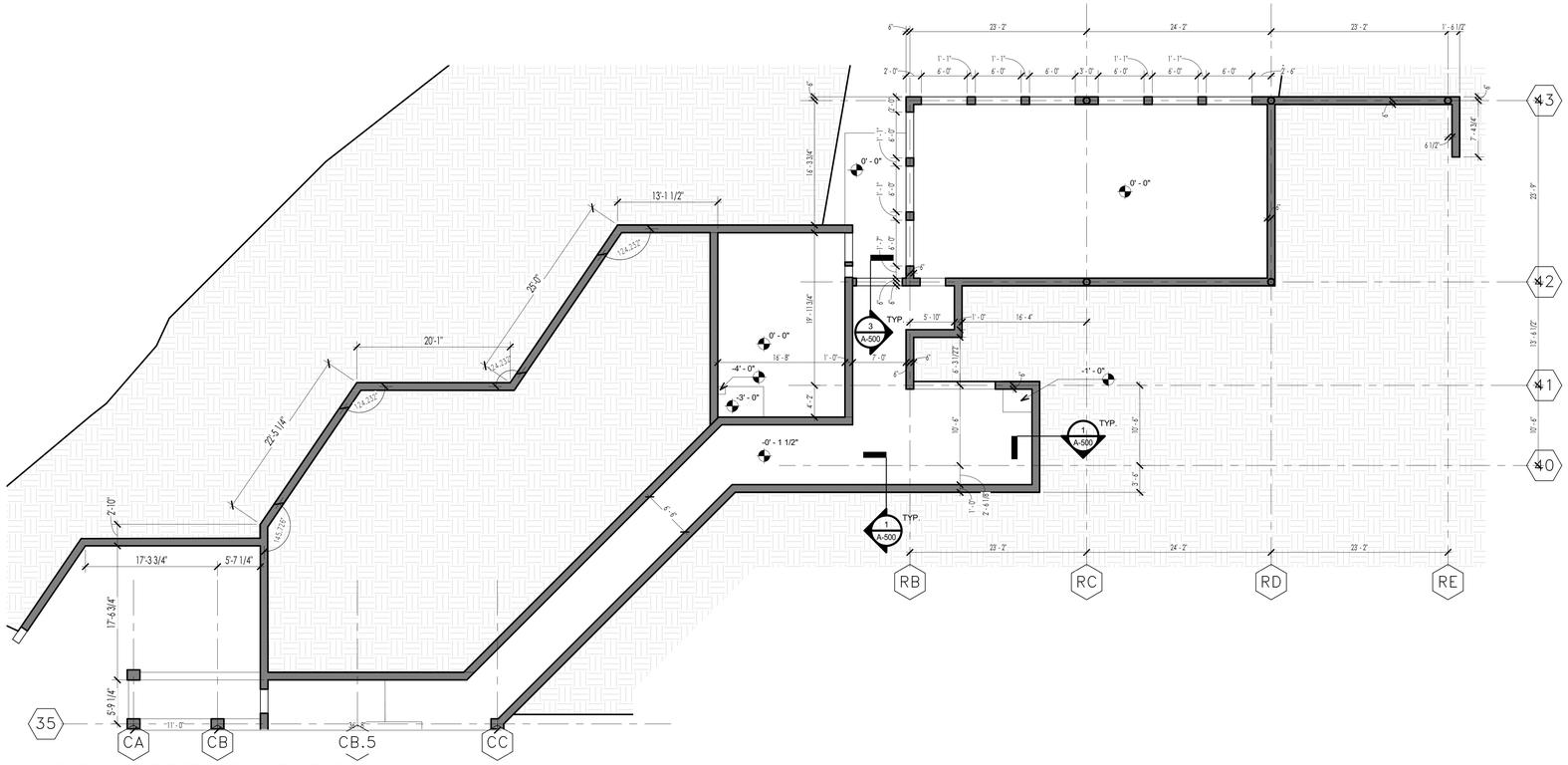
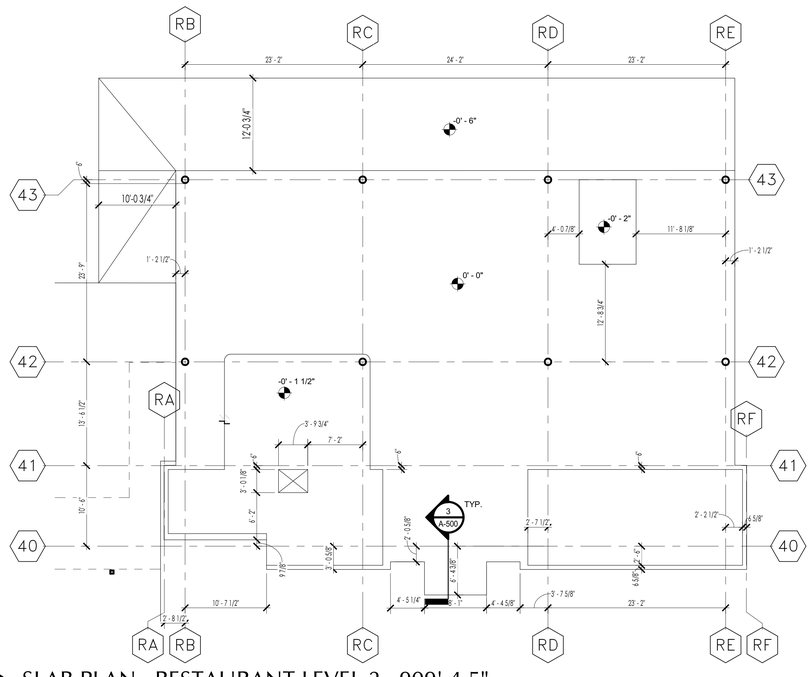


1 A-134 SLAB PLAN - RESTAURANT LEVEL 1 - 898'-10.5"

SCALE: 1/8" = 1'-0"



2 A-134 SLAB PLAN - RESTAURANT LEVEL 2 - 909'-4.5"

SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
RESTAURANT SLAB PLANS

A-134
Sheet Number

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2 A-150 HOTEL L1 CONFERENCE CENTER RCP
SCALE: 1/8" = 1'-0"

1 A-150 HOTEL L1 GUESTROOM/BOH RCP
SCALE: 1/8" = 1'-0"

3 A-150 TYPICAL GR CORRIDOR DOOR DROP
SCALE: 1/4" = 1'-0"

7

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NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

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Sheet Title
L1 REFLECTED CEILING PLANS

A-150
Sheet Number

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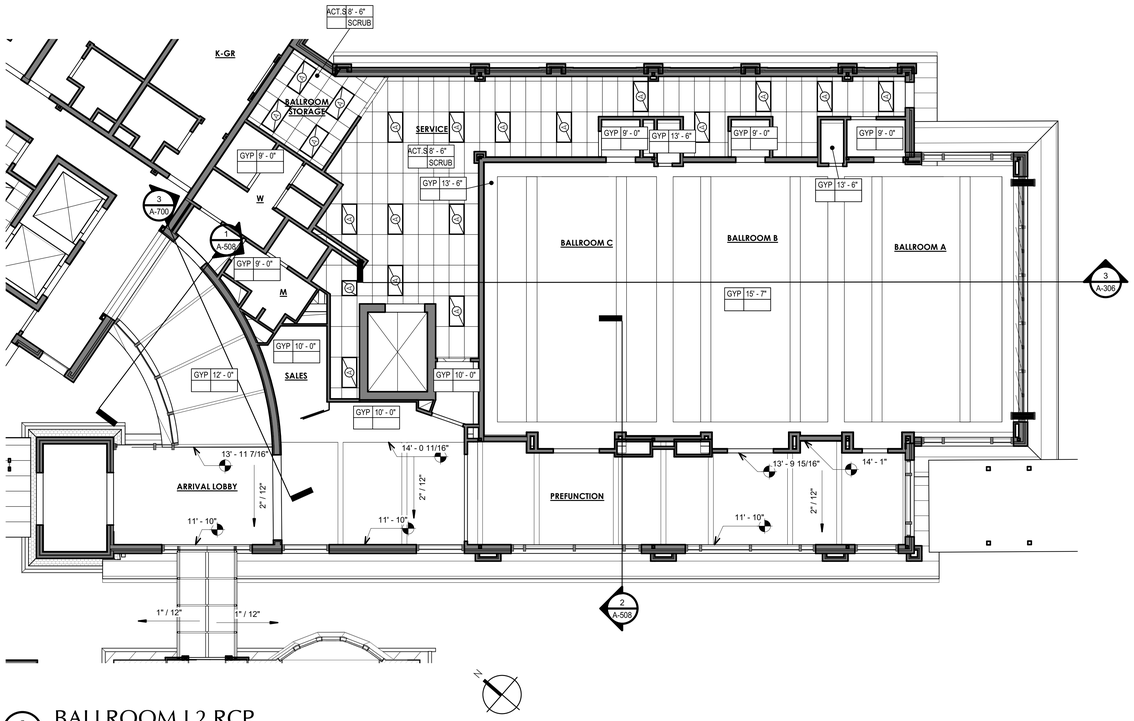
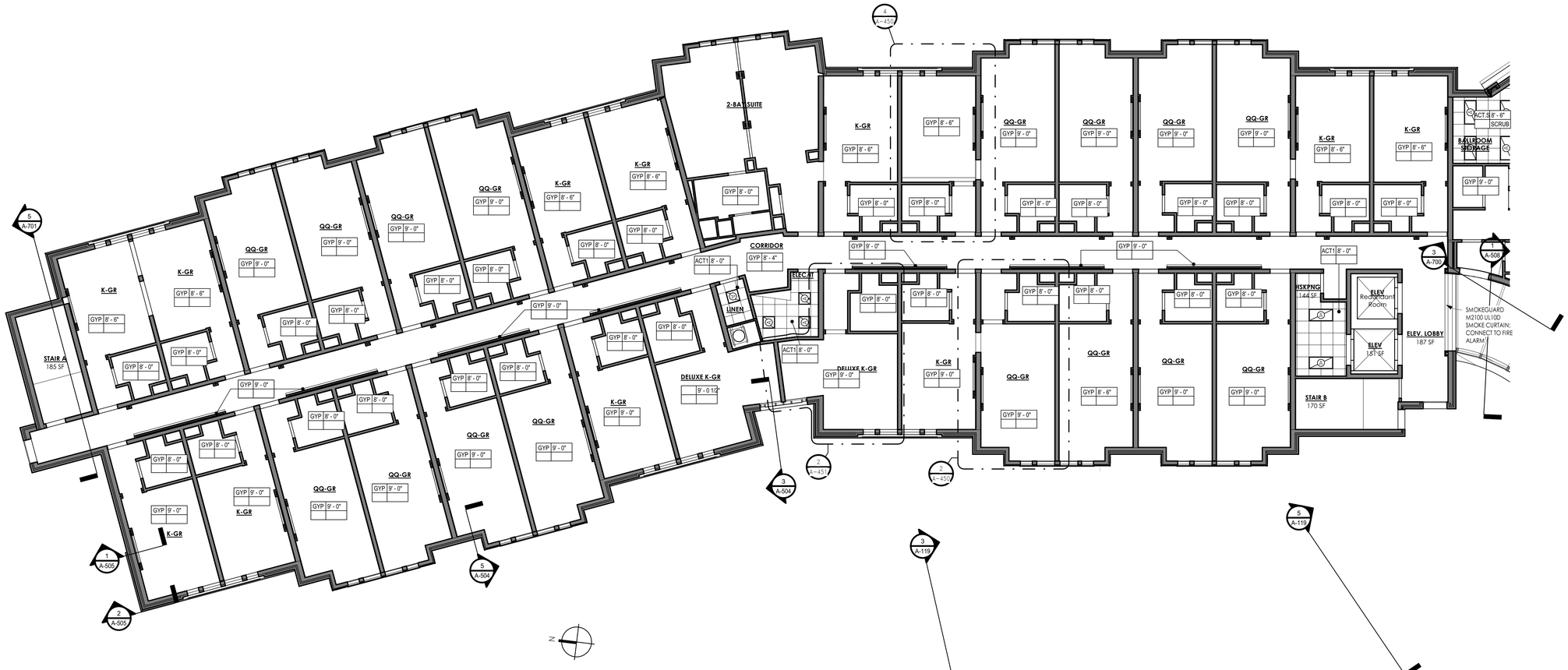


2 A-151 BALLROOM L2 RCP

SCALE: 1/8" = 1'-0"



1 A-151 HOTEL L2 RCP

SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
L2 REFLECTED CEILING PLANS

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Sheet Number

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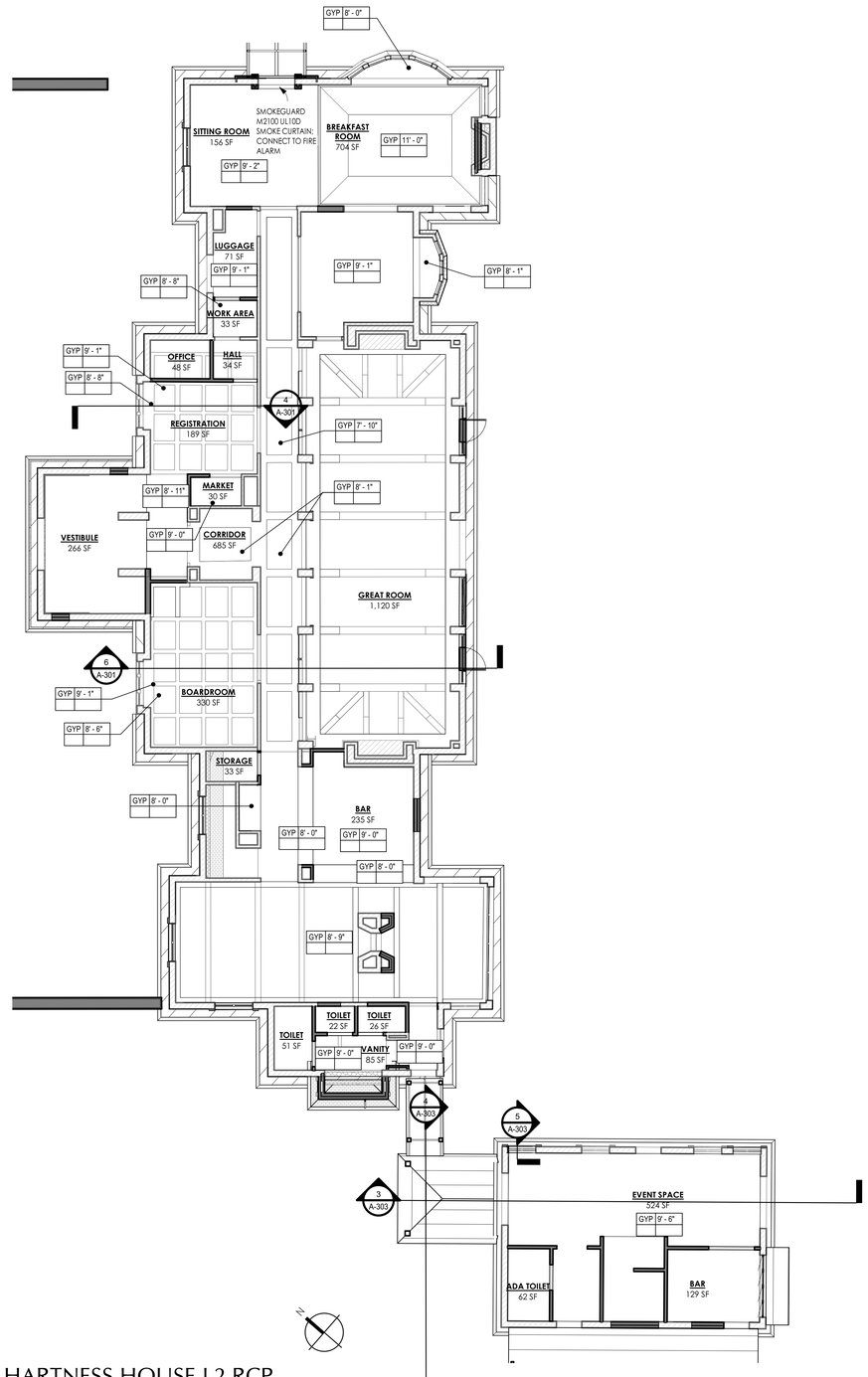
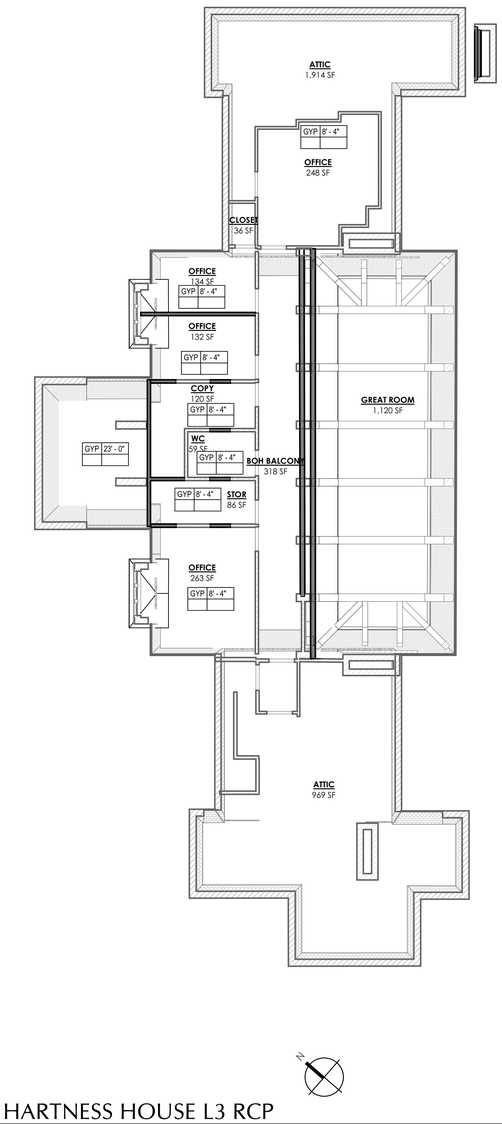


1 A-152 HARTNESS HOUSE L2 RCP
SCALE: 1/8" = 1'-0"



2 A-152 HARTNESS HOUSE L3 RCP
SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
L2 REFLECTED CEILING PLANS

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Sheet Number

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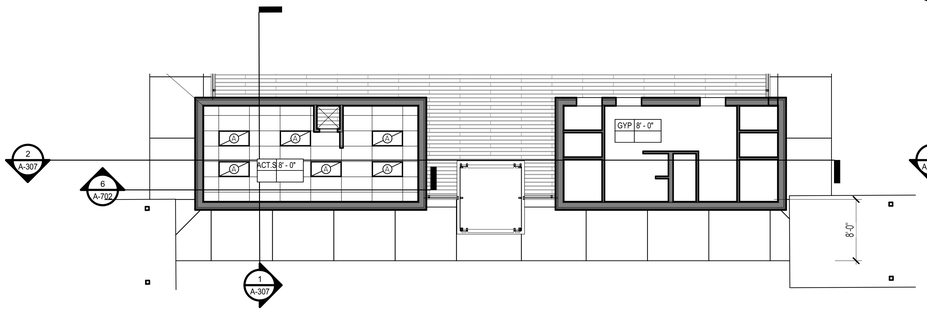
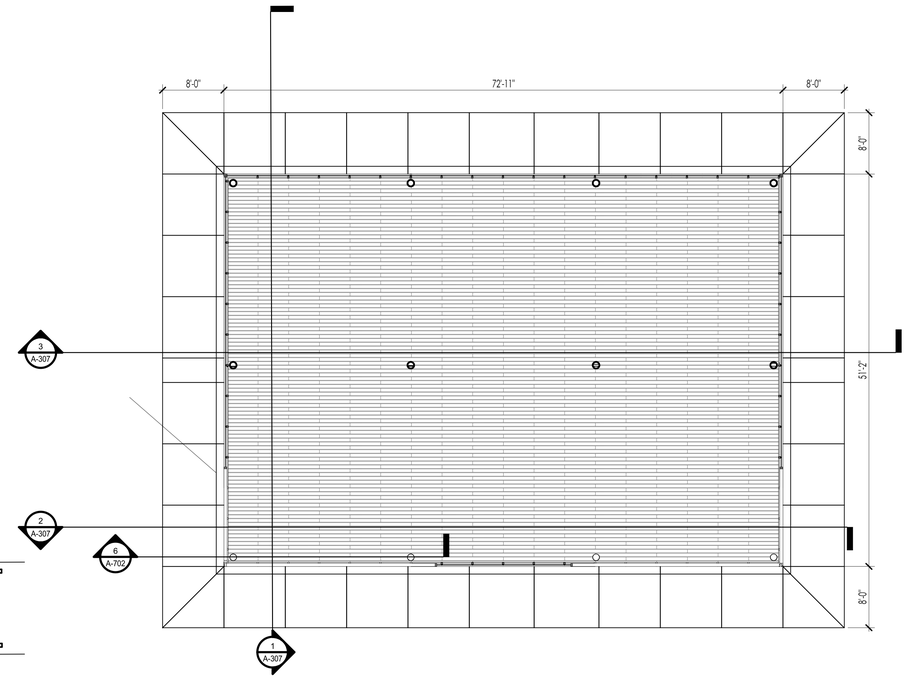


3 A-153 LEVEL 2 - REST. LOW CEILING
SCALE: 1/8" = 1'-0"



2 A-153 LEVEL 2 - REST. HIGH CEILING
SCALE: 1/8" = 1'-0"

1 A-153 HOTEL L3 RCP
SCALE: 1/8" = 1'-0"

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NO.	DATE	DESCRIPTION
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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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L3 REFLECTED CEILING PLAN

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Sheet Number

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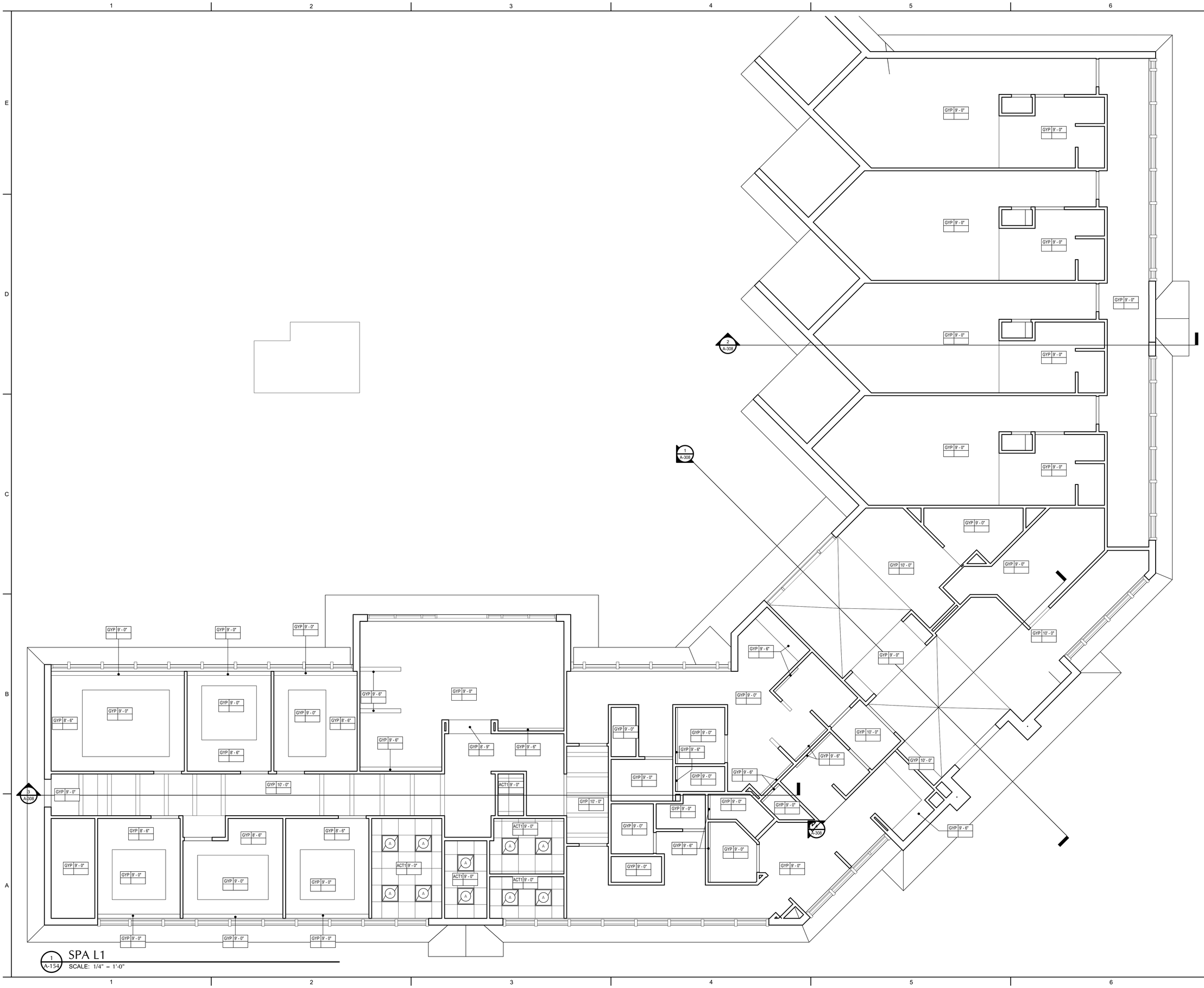

1 A-154 SPA L1
SCALE: 1/4" = 1'-0"

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Sheet Title
SPA REFLECTED CEILING PLAN

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Sheet Number

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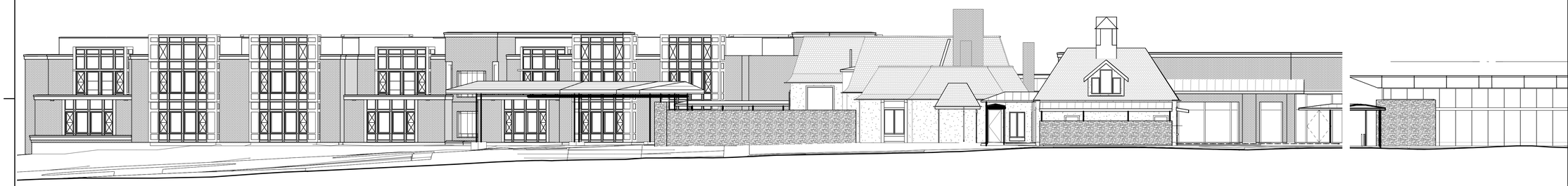

1 A-201 Southeast Elevation
SCALE: 3/32" = 1'-0"

2 A-201 Northeast Elevation
SCALE: 3/32" = 1'-0"

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Kevin Vogel, Partner -704.333.0325

LANDSCAPE ARCHITECT
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Dallas, TX, 75207
Chuck McDaniel, Principal - 214.954.0016

STATE OF SOUTH CAROLINA
WILLIAM C. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
OVERALL ELEVATIONS

A-201
Sheet Number

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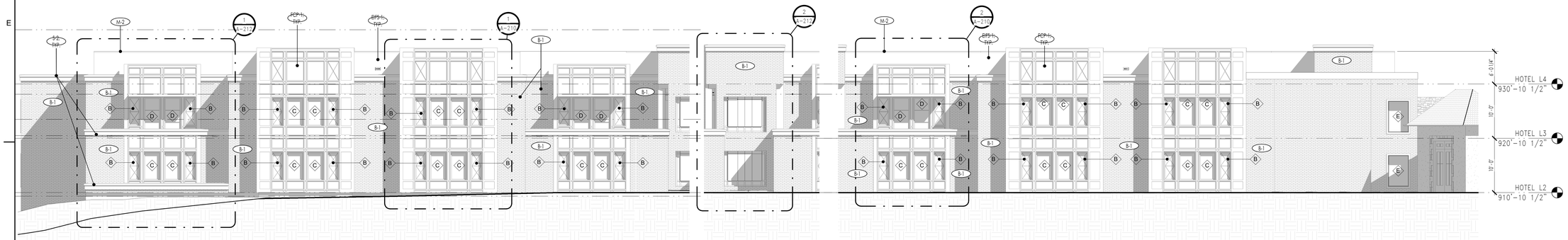
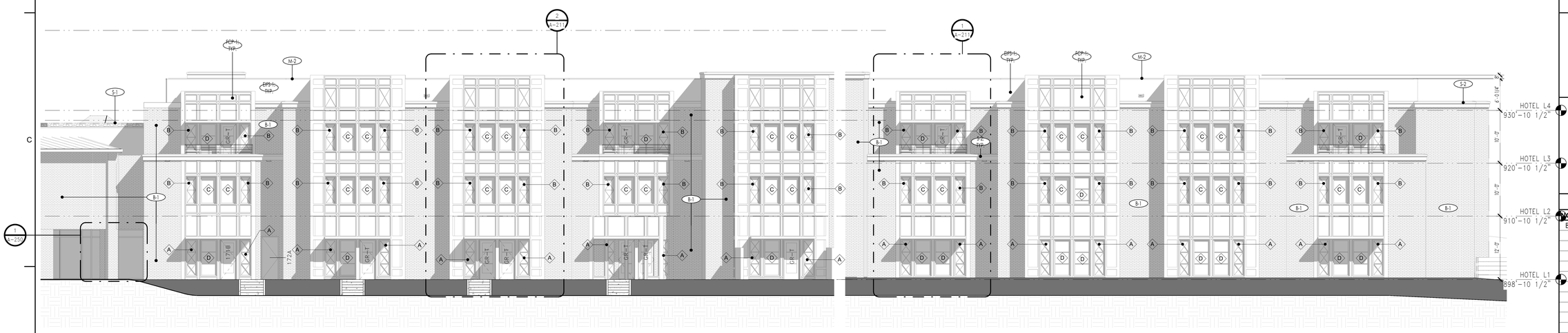


2 A-202 HOTEL ELEVATION C
SCALE: 1/8" = 1'-0"

6 A-202 HOTEL ELEVATION B
SCALE: 1/8" = 1'-0"

1 A-202 HOTEL ELEVATION A
SCALE: 1/8" = 1'-0"



4 A-202 HOTEL ELEVATION E
SCALE: 1/8" = 1'-0"

3 A-202 HOTEL ELEVATION D
SCALE: 1/8" = 1'-0"

EXTERIOR FINISH LEGEND

B-1: CHEROKEE BRICK - VELOUR MEDIUM GRAY
B-2: CHEROKEE BRICK - VELOUR MEDIUM GRAY - PAINTED WHITE

S-1: EL DORADO STACKED STONE CHAPEL HILL
S-2: CAST STONE MATCHING P2

P-1: SW 7019 GAUNTLET GRAY
P-2: SW 7643 PUSSYWILLOW
P-3: SW 7757 HIGH REFLECTIVE WHITE

M-1: ALUCOBOND STATUARY BRONZE ACM
M-2: BLACK PAINTED BRAKE METAL CAP
M-3: BLACK STANDING SEAM METAL ROOF & FASCIA

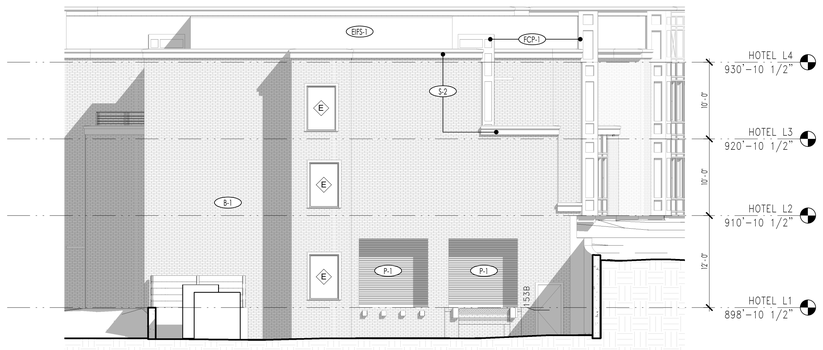
FCP-1: HARDIE PANEL & TRIM BOARDS W/P2

EIFS-1: EIFS W/P2

STUCCO-1: HARD-COAT STUCCO MATCHING P3

G-1: VISION GLAZING

ROOF-1: ARCH-1 TECTURAL ASPHALT SHINGLES



5 A-202 HOTEL ELEVATION F
SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HOTEL ELEVATIONS

A-202
Sheet Number

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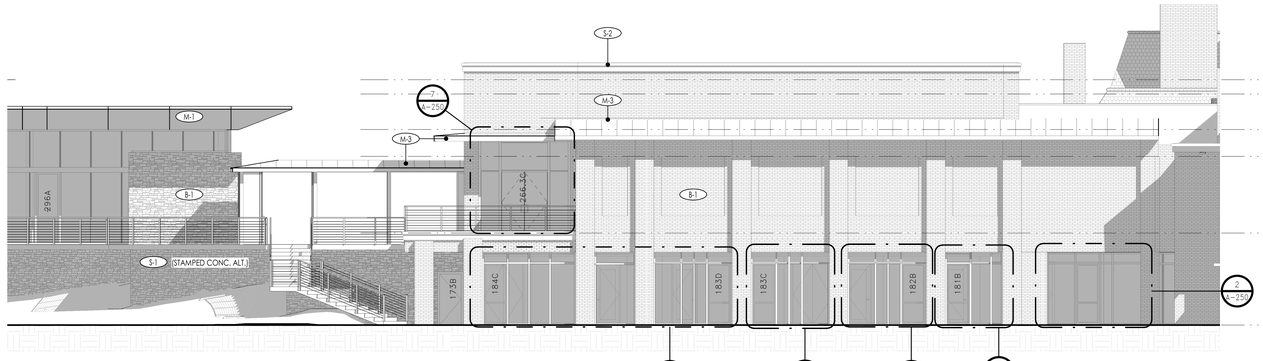
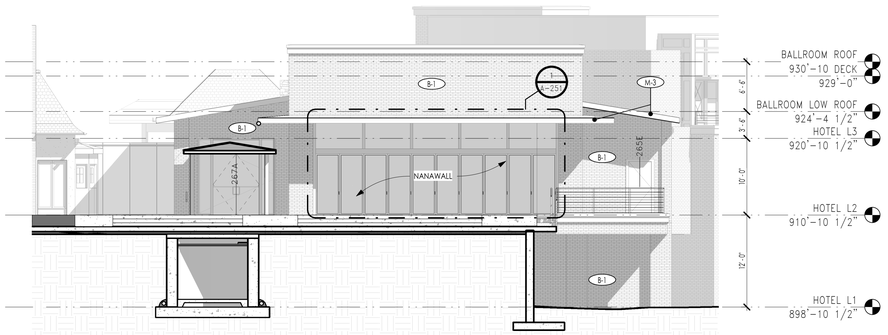
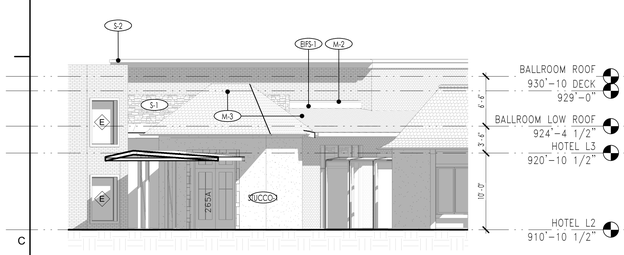


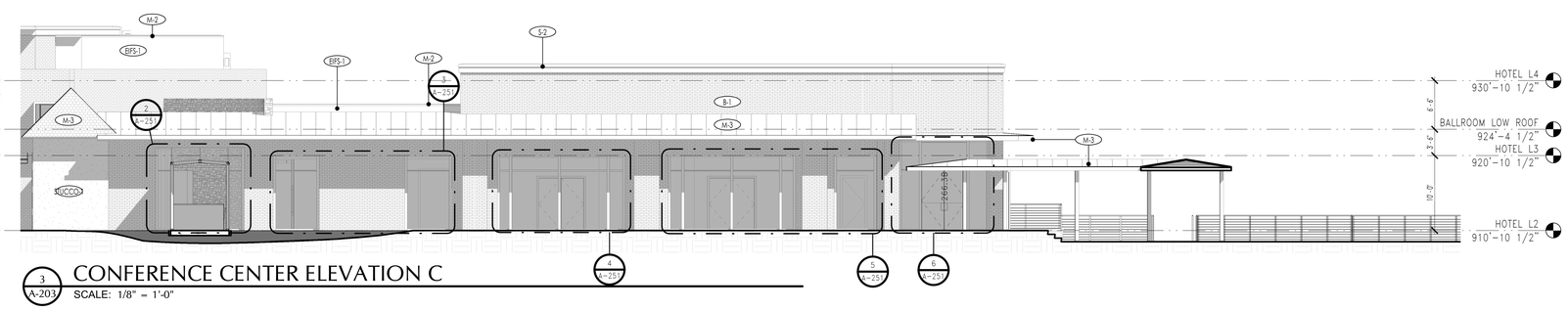
1 A-203 CONFERENCE CENTER ELEVATION A
SCALE: 1/8" = 1'-0"



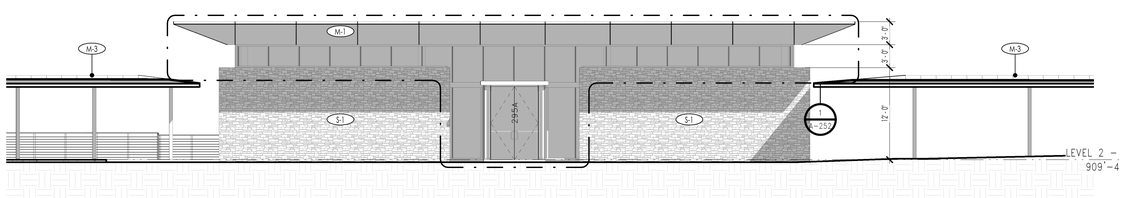
2 A-203 CONFERENCE CENTER ELEVATION B
SCALE: 1/8" = 1'-0"



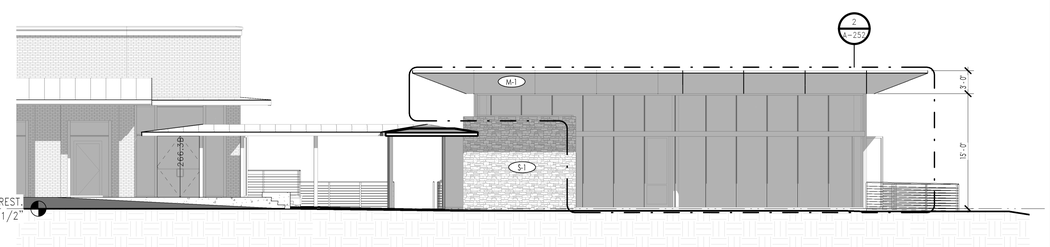
8 A-203 CONFERENCE CENTER ENTRY
SCALE: 1/8" = 1'-0"



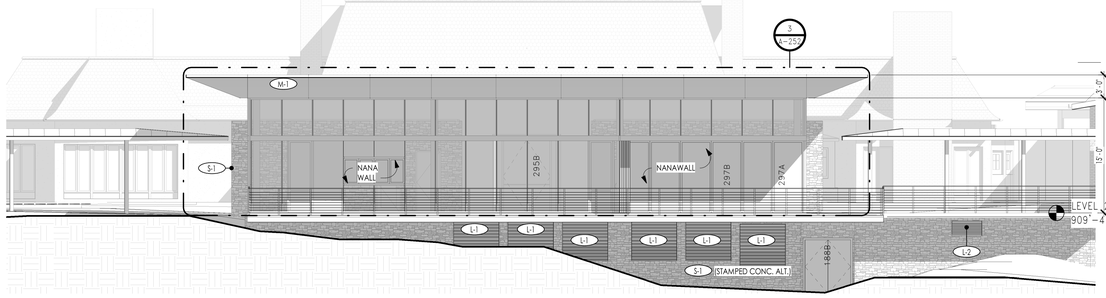
3 A-203 CONFERENCE CENTER ELEVATION C
SCALE: 1/8" = 1'-0"



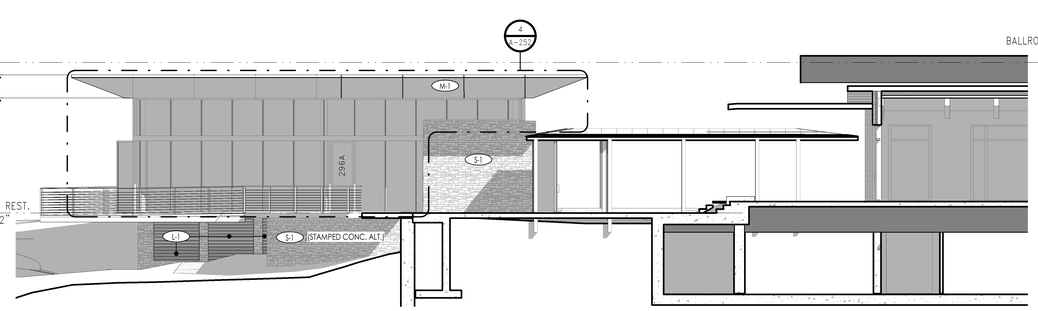
4 A-203 RESTAURANT ELEVATION A
SCALE: 1/8" = 1'-0"



5 A-203 RESTAURANT ELEVATION B
SCALE: 1/8" = 1'-0"



6 A-203 RESTAURANT ELEVATION C
SCALE: 1/8" = 1'-0"



7 A-203 RESTAURANT ELEVATION D
SCALE: 1/8" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
CONFERENCE CENTER AND RESTAURANT ELEVATIONS

A-203
Sheet Number

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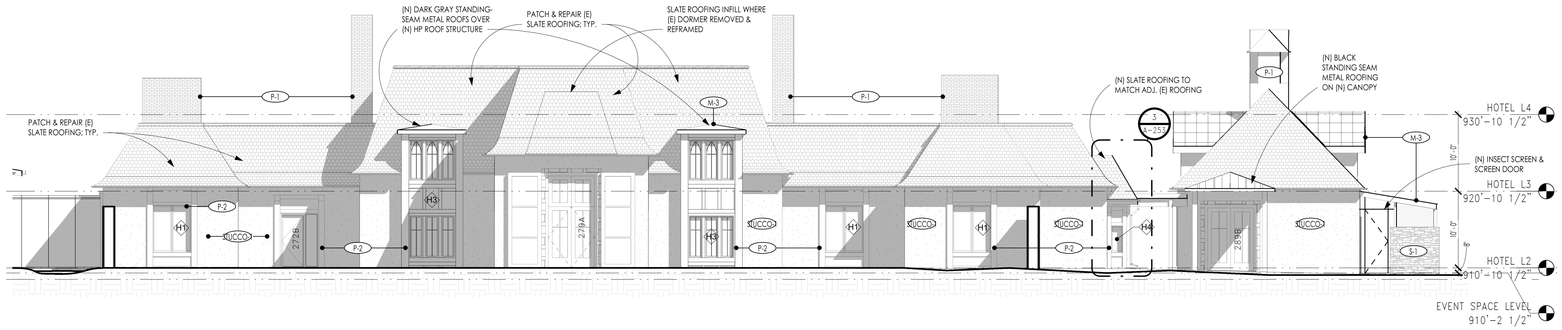
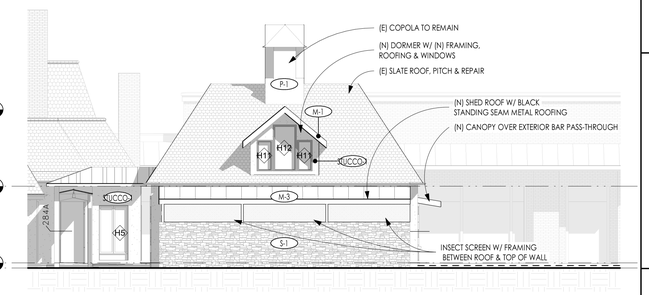
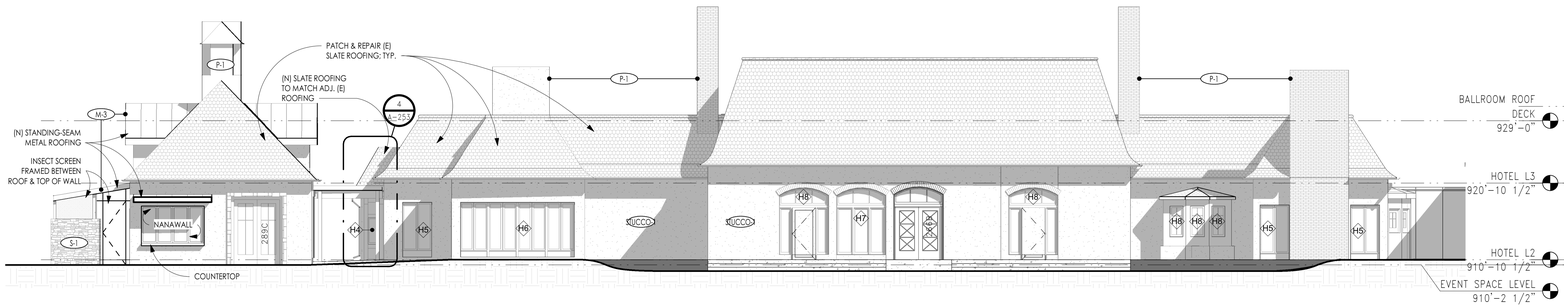


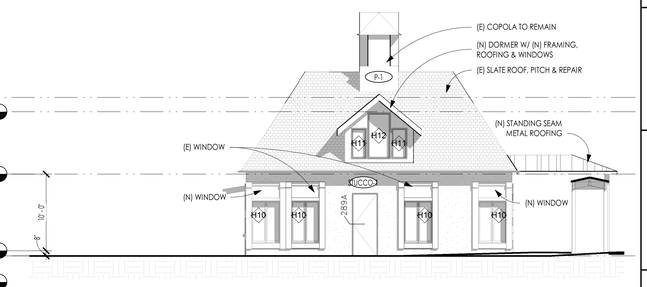
1 A-204 HARTNESS HOUSE FRONT ELEVATION
SCALE: 1/8" = 1'-0"



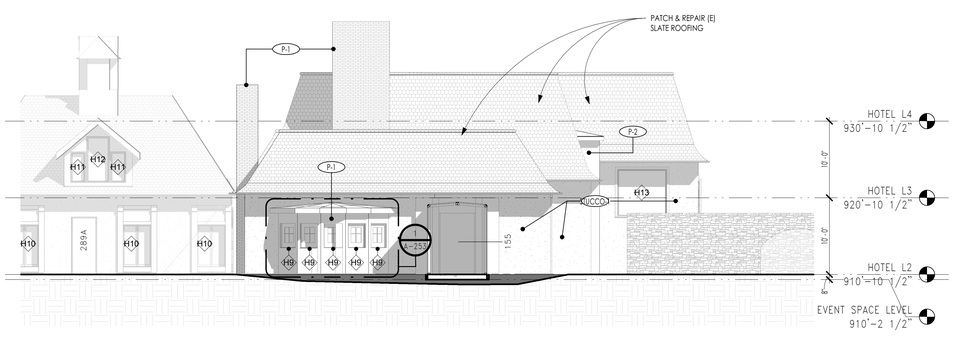
2 A-204 HARTNESS HOUSE GARAGE - SIDE ELEV A
SCALE: 1/8" = 1'-0"



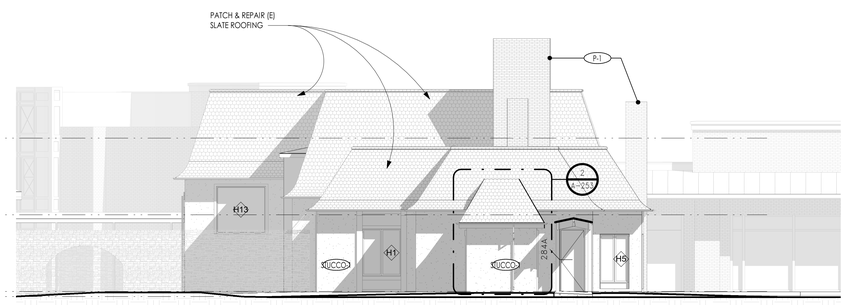
3 A-204 HARTNESS HOUSE BACK ELEVATION
SCALE: 1/8" = 1'-0"



4 A-204 HARTNESS HOUSE GARAGE - SIDE ELEV B
SCALE: 1/8" = 1'-0"



5 A-204 HARTNESS HOUSE SIDE/ BAY WINDOW ELEVATION
SCALE: 1/8" = 1'-0"



6 A-204 HARTNESS HOUSE SIDE ELEVATION
SCALE: 1/8" = 1'-0"

EXTERIOR FINISH LEGEND

B-1: CHEROKEE BRICK - VELOUR MEDIUM GRAY
B-2: CHEROKEE BRICK - VELOUR MEDIUM GRAY - PAINTED WHITE

S-1: EL DORADO STACKED STONE CHAPEL HILL
S-2: CAST STONE MATCHING P2

P-1: SW 7019 GAUNTLET GRAY
P-2: SW 7643 PUSSYWILLOW
P-3: SW 7757 HIGH REFLECTIVE WHITE

M-1: ALUCOBOND STATUARY BRONZE ACM
M-2: BLACK PAINTED BRAKE METAL CAP
M-3: BLACK STANDING SEAM METAL ROOF & FASCIA

FCP-1: HARDIE PANEL & TRIM BOARDS W/P2

EIFS-1: EIFS W/P2

STUCCO-1: HARD-COAT STUCCO MATCHING P3

G-1: VISION GLAZING

ROOF-1: ARCH-1 TECTURAL ASPHALT SHINGLES

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HARTNESS HOUSE ELEVATIONS

A-204
Sheet Number

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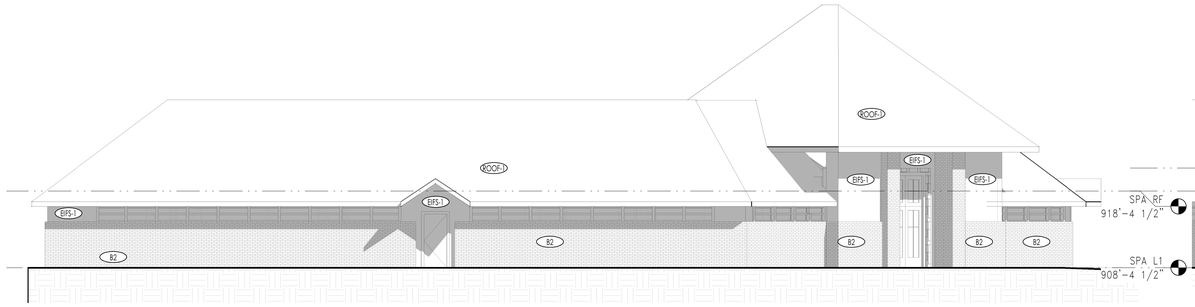
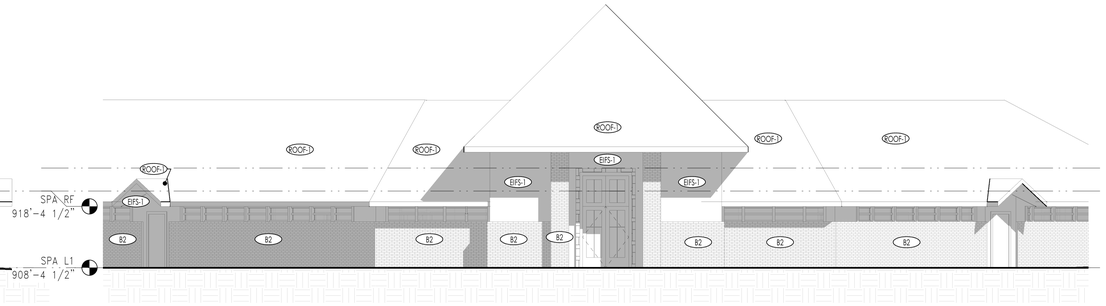
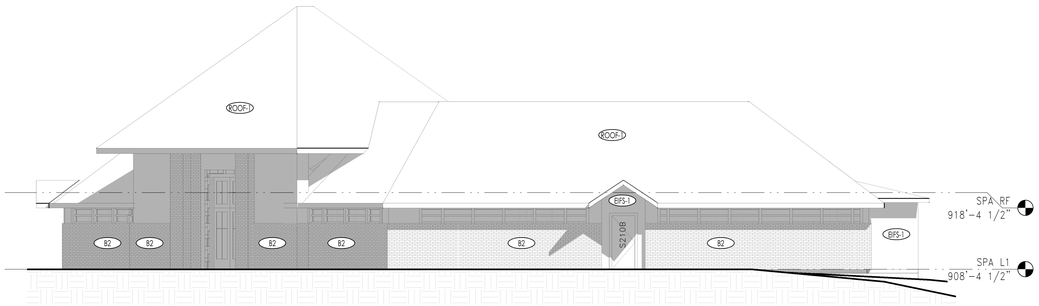


1 A-205 Spa Elevation A
SCALE: 1/8" = 1'-0"



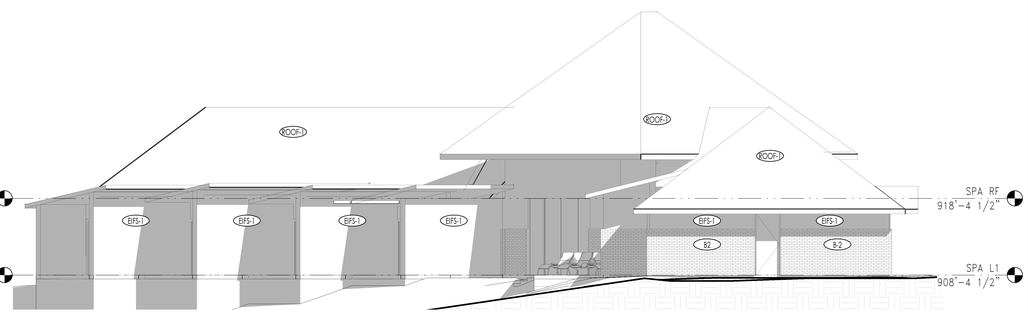
2 A-205 Spa Elevation B
SCALE: 1/8" = 1'-0"



3 A-205 Spa Elevation C
SCALE: 1/8" = 1'-0"

4 A-205 Spa Elevation E
SCALE: 1/8" = 1'-0"

5 A-205 Spa Elevation F
SCALE: 1/8" = 1'-0"



6 A-205 Spa Elevation G
SCALE: 1/8" = 1'-0"

EXTERIOR FINISH LEGEND

B-1: CHEROKEE BRICK - VELOUR MEDIUM GRAY
B-2: CHEROKEE BRICK - VELOUR MEDIUM GRAY - PAINTED WHITE

S-1: EL DORADO STACKED STONE CHAPEL HILL
S-2: CAST STONE MATCHING P2

P-1: SW 7019 GAUNTLET GRAY
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M-1: ALUCOBOND STATUARY BRONZE ACM
M-2: BLACK PAINTED BRAKE METAL CAP
M-3: BLACK STANDING SEAM METAL ROOF & FASCIA

FCP-1: HARDIE PANEL & TRIM BOARDS W/P2

EIFS-1: EIFS W/P2

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G-1: VISION GLAZING

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
SPA ELEVATIONS

A-205
Sheet Number

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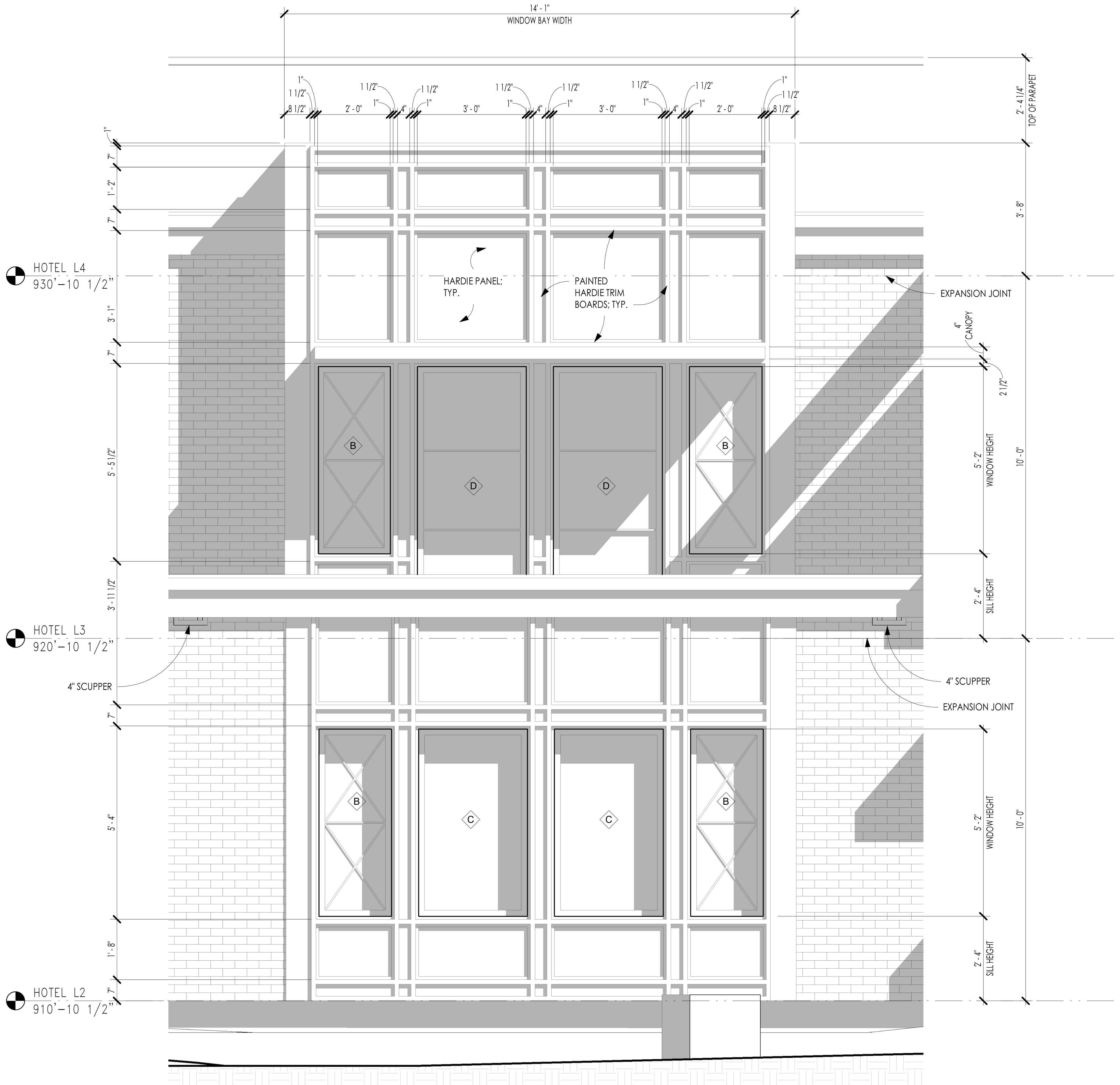
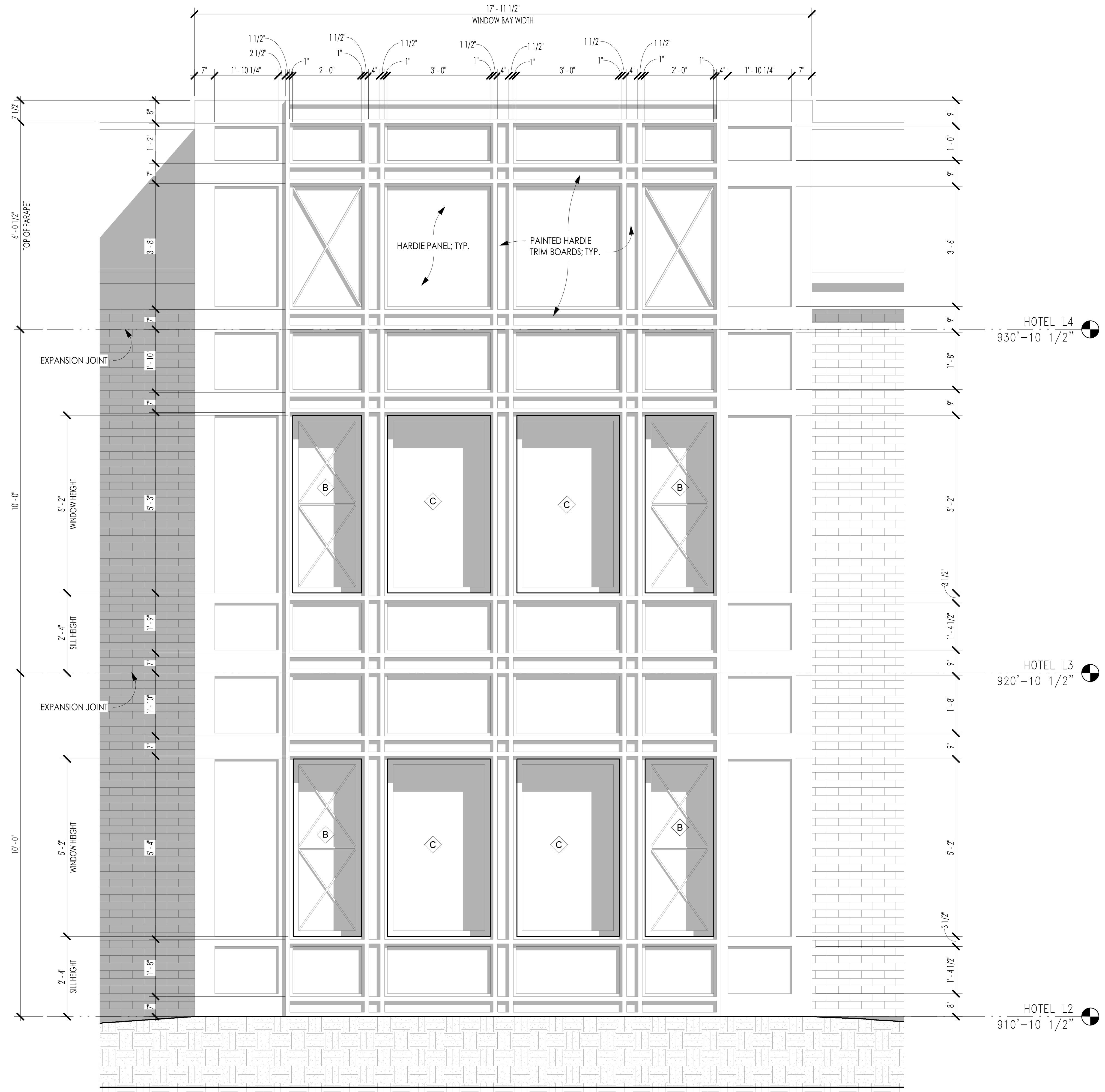


2
A-210
ENLARGED HOTEL ELEVATION A
SCALE: 1/2" = 1'-0"



1
A-210
ENLARGED HOTEL ELEVATION C
SCALE: 1/2" = 1'-0"

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BARRETT WOODYARD

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Owners Consultants

CIVIL ENGINEER
LANDDESIGN

LANDSCAPE ARCHITECT
SWA

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT No. 7703 Atlanta, GA

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ENLARGED ELEVATIONS

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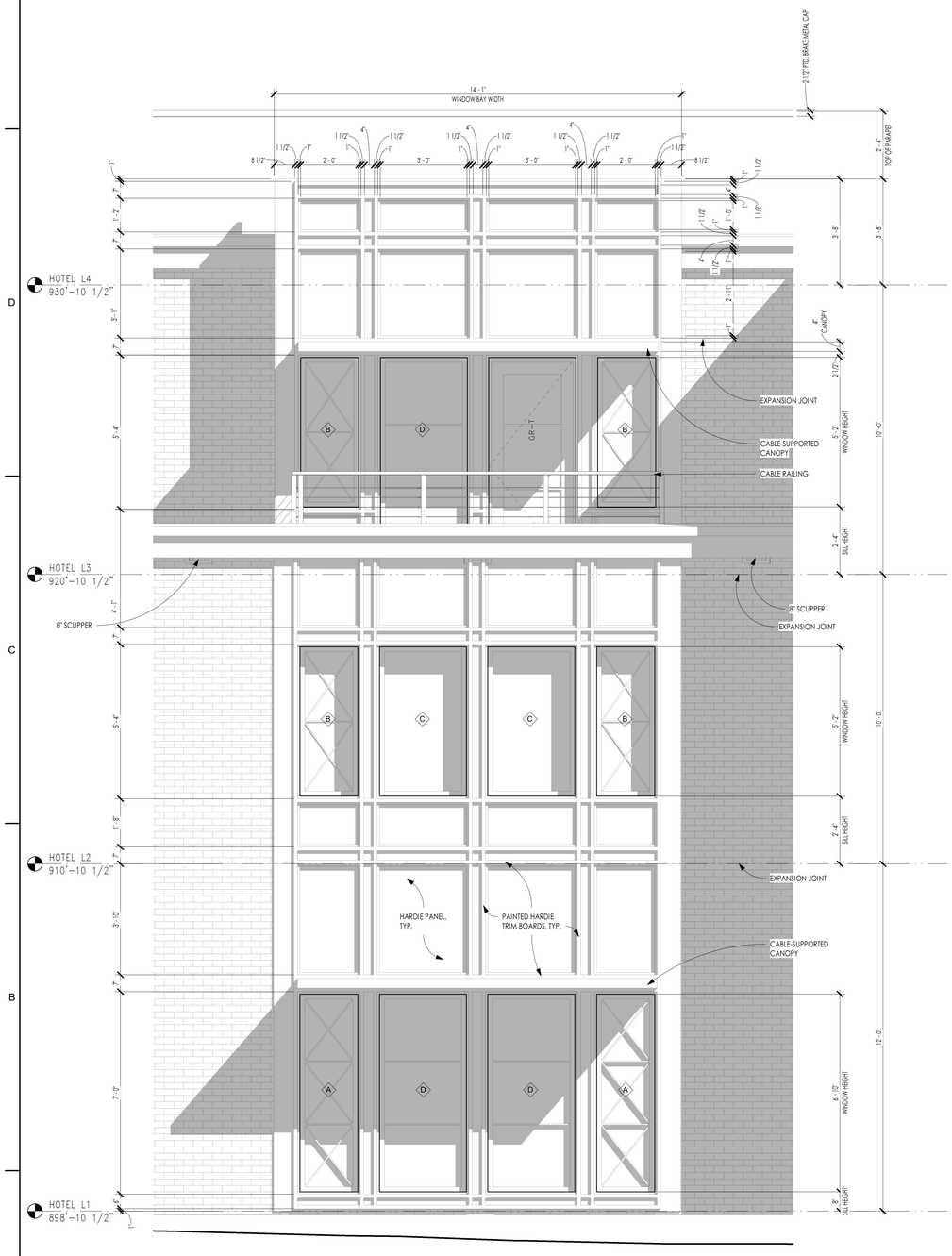
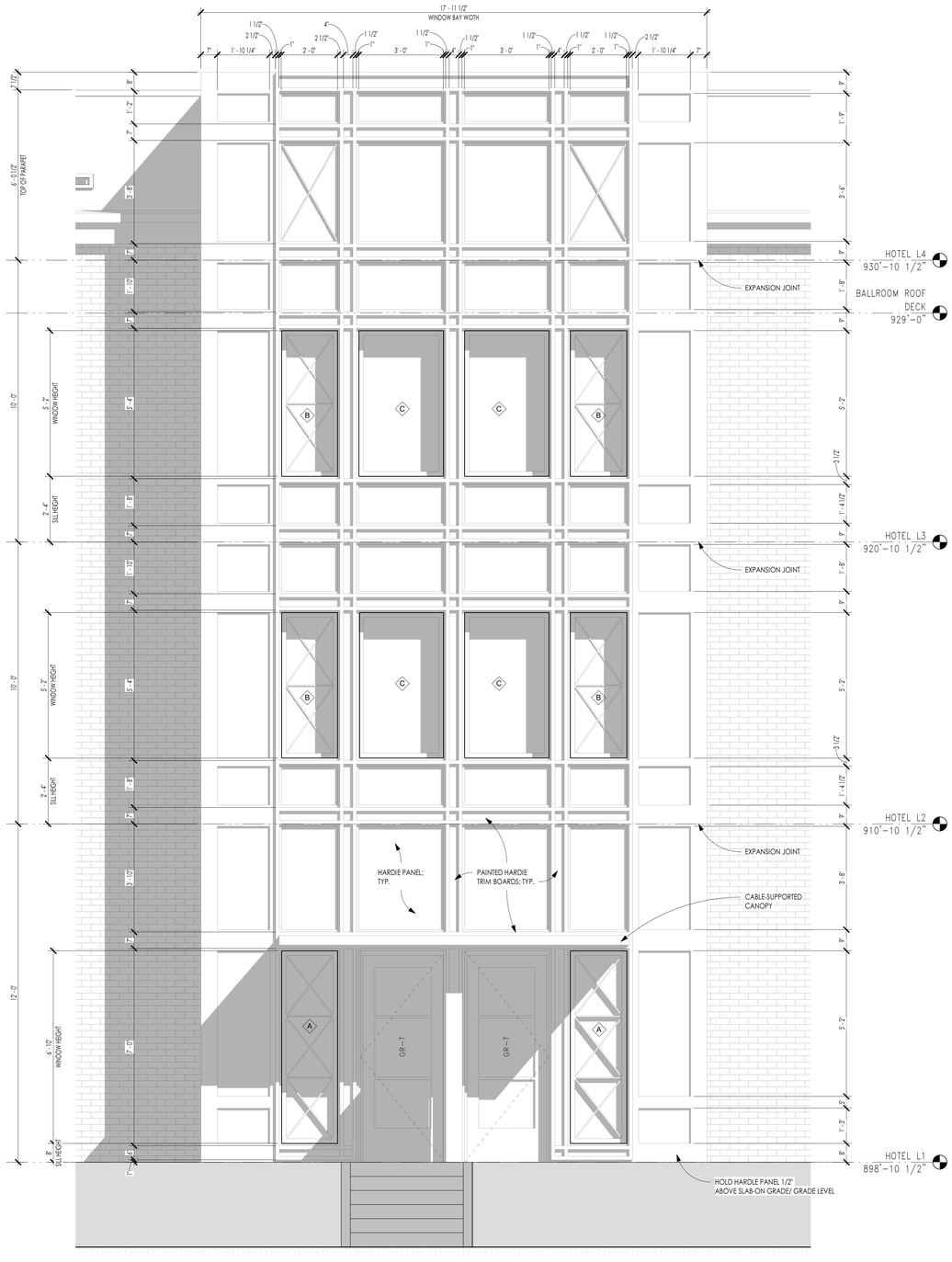


1 A-211 ENLARGED HOTEL ELEVATION D

SCALE: 1/2" = 1'-0"



2 A-211 ENLARGED HOTEL ELEVATION E

SCALE: 1/2" = 1'-0"

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STATE OF SOUTH CAROLINA
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No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED ELEVATIONS

A-211
Sheet Number

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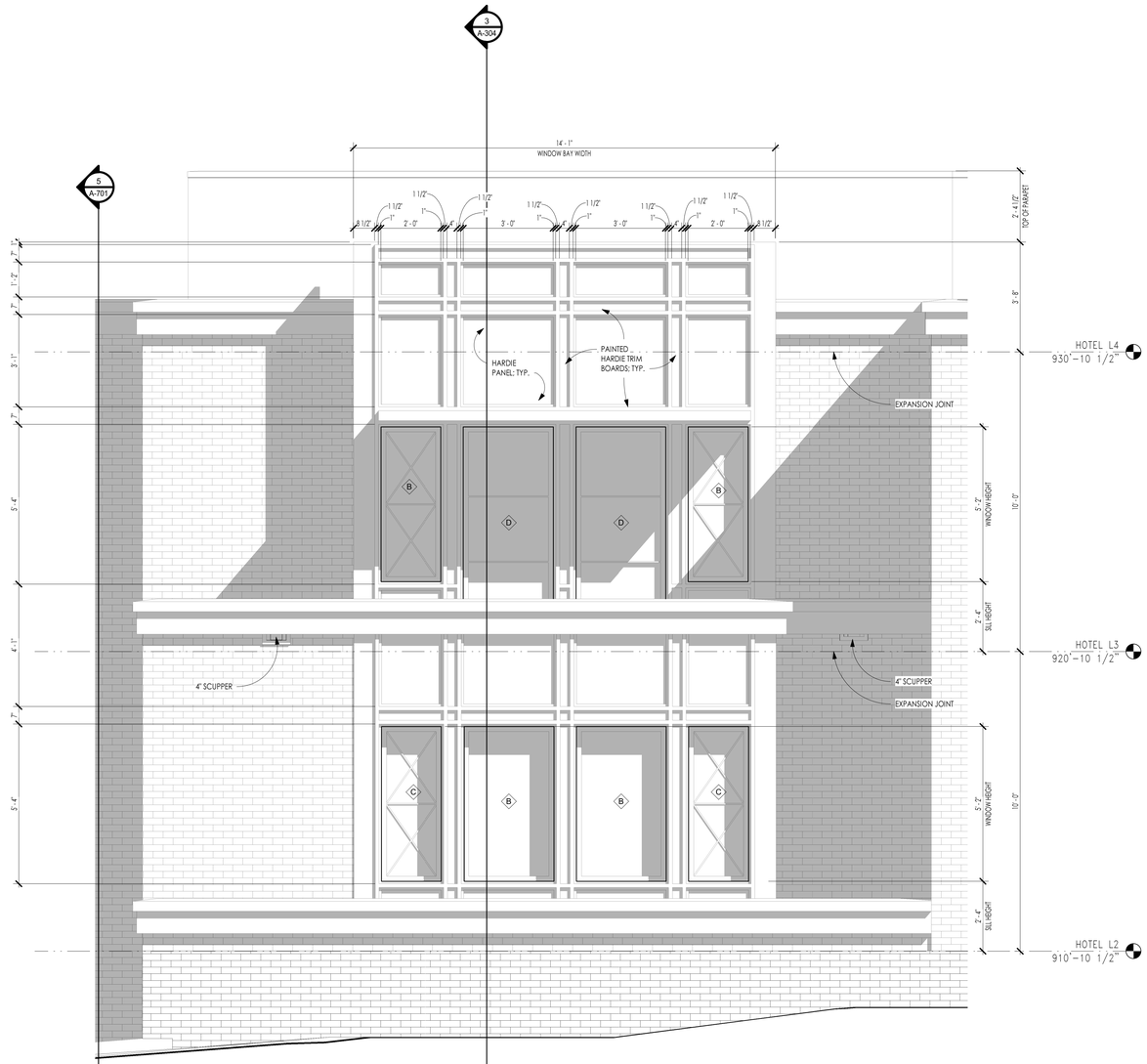
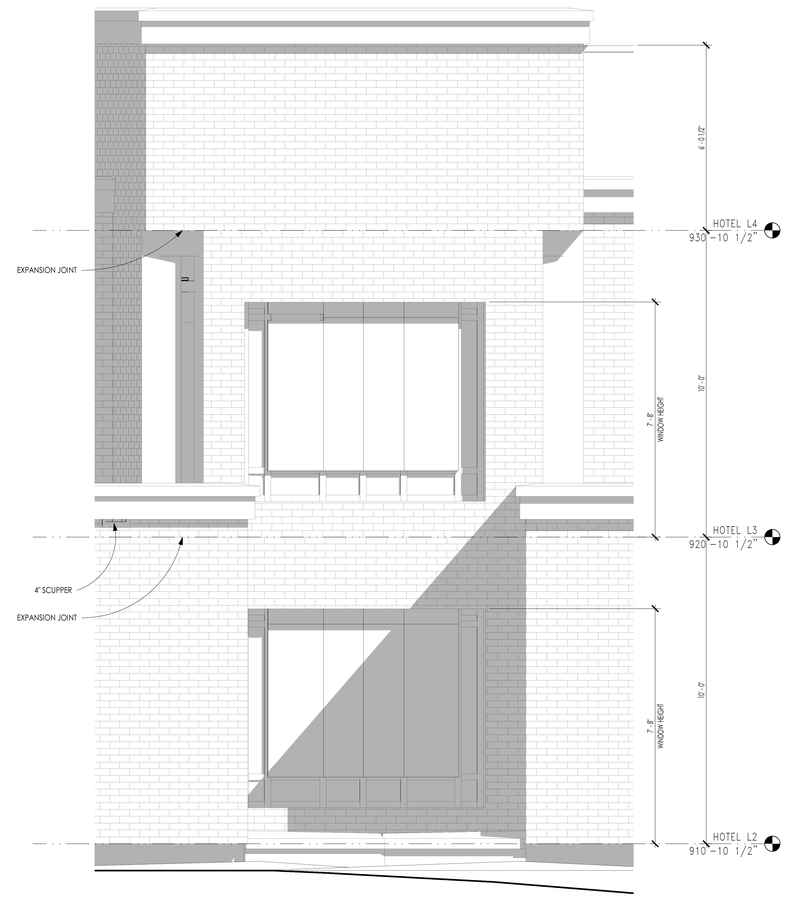


1 A-212 ENLARGED HOTEL ELEVATION C

SCALE: 1/2" = 1'-0"



2 A-212 ENLARGED HOTEL ELEVATION B

SCALE: 1/2" = 1'-0"

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NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED ELEVATIONS

A-212
Sheet Number

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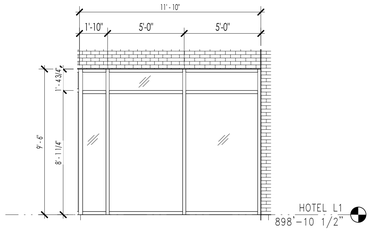
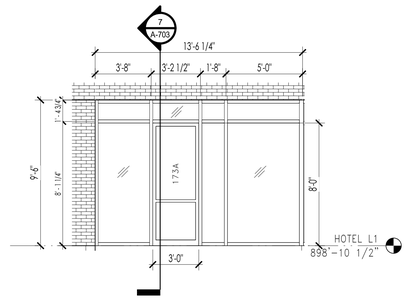
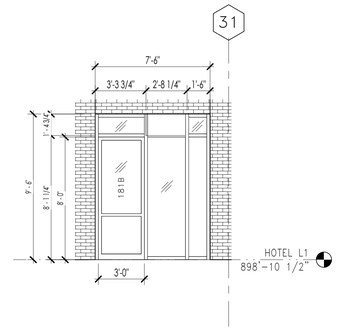


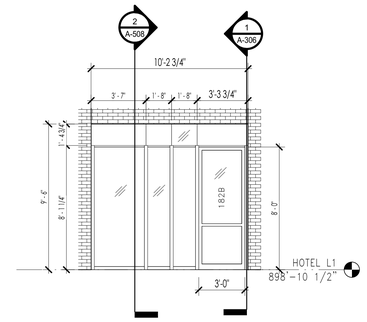
1 A-250 L1 PREFUNCTION STOREFRONT
SCALE: 1/4" = 1'-0"



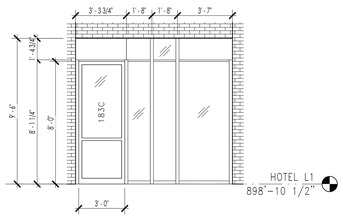
2 A-250 L1 PREFUNCTION STOREFRONT
SCALE: 1/4" = 1'-0"



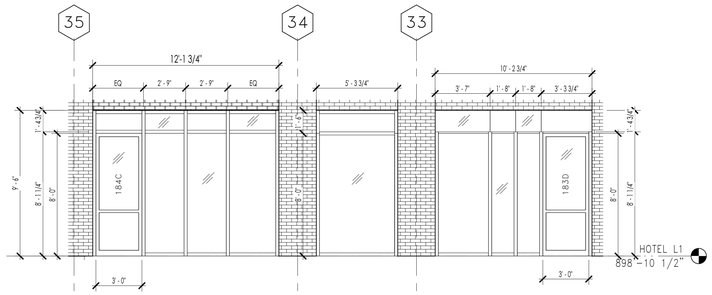
3 A-250 MTG A STOREFRONT
SCALE: 1/4" = 1'-0"



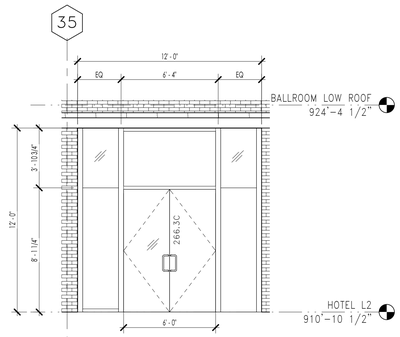
4 A-250 MTG B STOREFRONT
SCALE: 1/4" = 1'-0"



5 A-250 MTG C STOREFRONT
SCALE: 1/4" = 1'-0"



6 A-250 MTG C & D STOREFRONT
SCALE: 1/4" = 1'-0"



7 A-250 BALLROOM B STOREFRONT
SCALE: 1/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED STOREFRONT ELEVATIONS

A-250
Sheet Number

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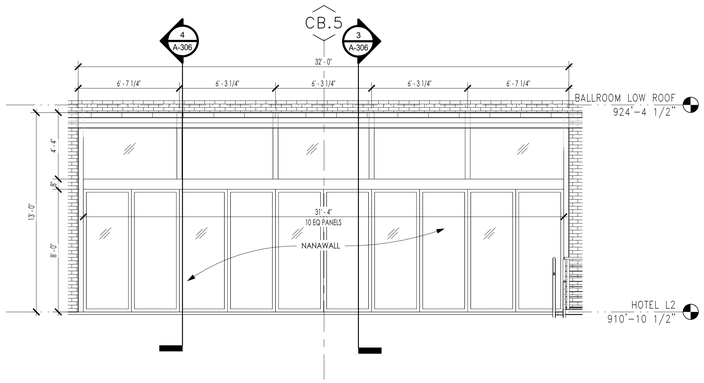
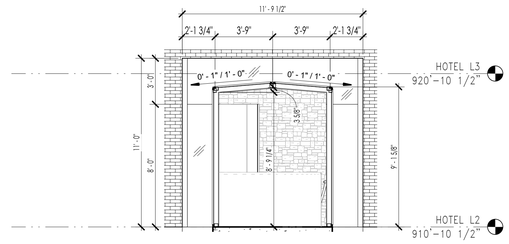
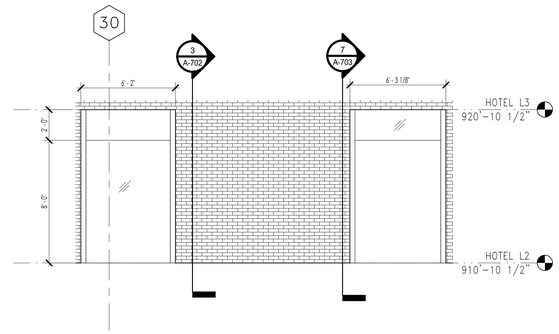


1 A-251 BALLROOM B STOREFRONT
SCALE: 1/4" = 1'-0"



2 A-251 ARRIVAL LOBBY STOREFRONT
SCALE: 1/4" = 1'-0"



3 A-251 L2 PREFUNCTION STOREFRONT
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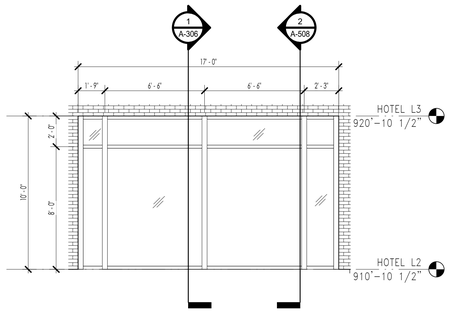

4 A-251 L2 PREFUNCTION STOREFRONT
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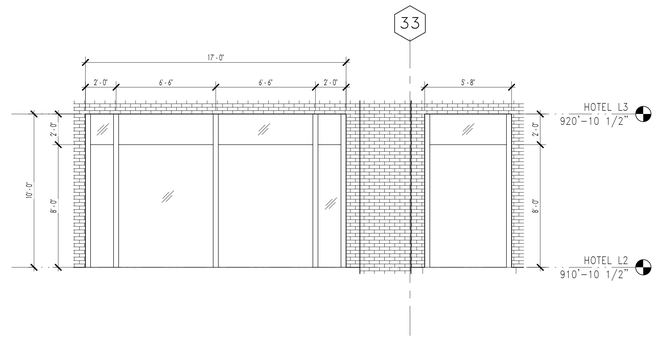
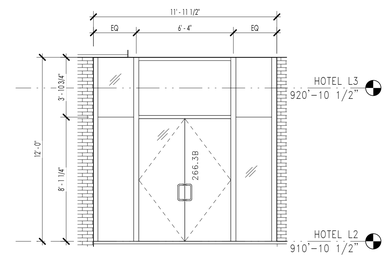


5 A-251 L2 PREFUNCTION STOREFRONT
SCALE: 1/4" = 1'-0"



6 A-251 BALLROOM B STOREFRONT
SCALE: 1/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED STOREFRONT ELEVATIONS

A-251
Sheet Number

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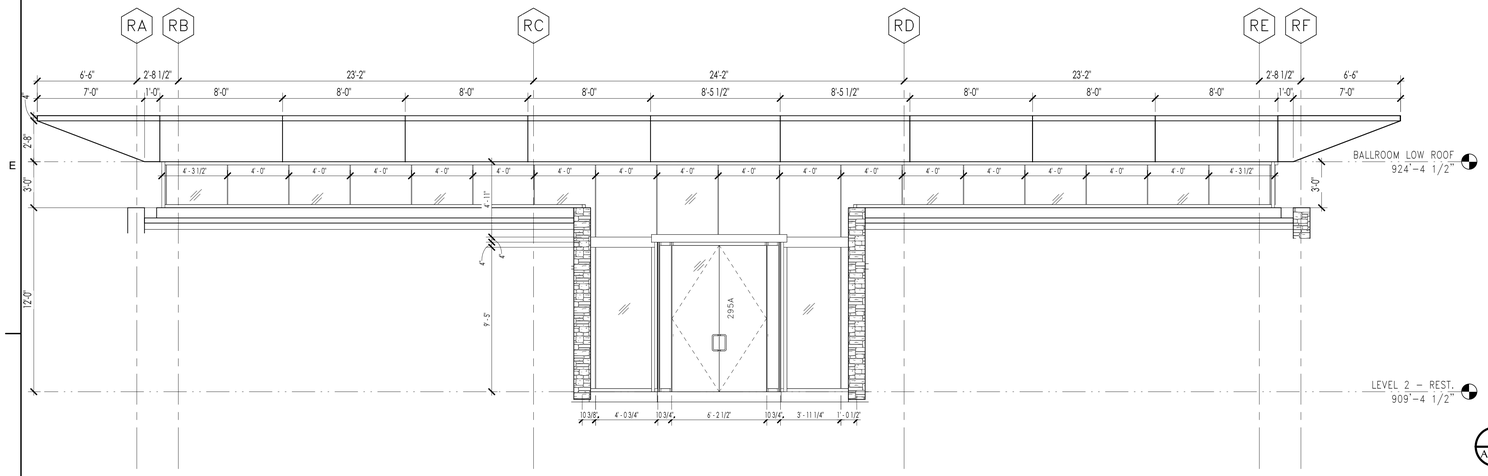
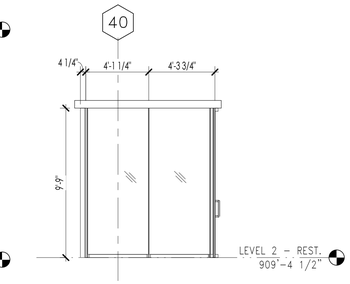
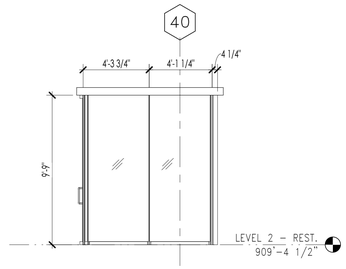


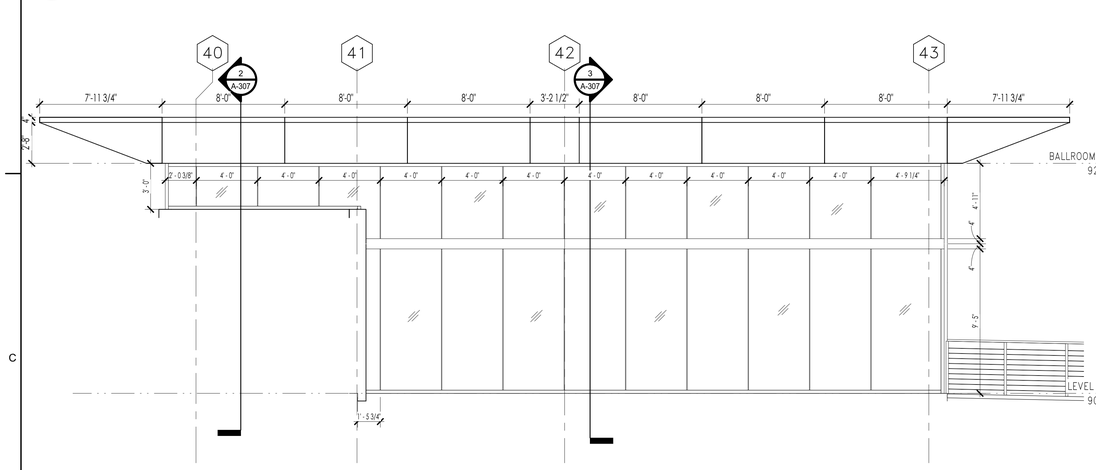
1 A-252 RESTAURANT STOREFRONT - FRONT
SCALE: 1/4" = 1'-0"



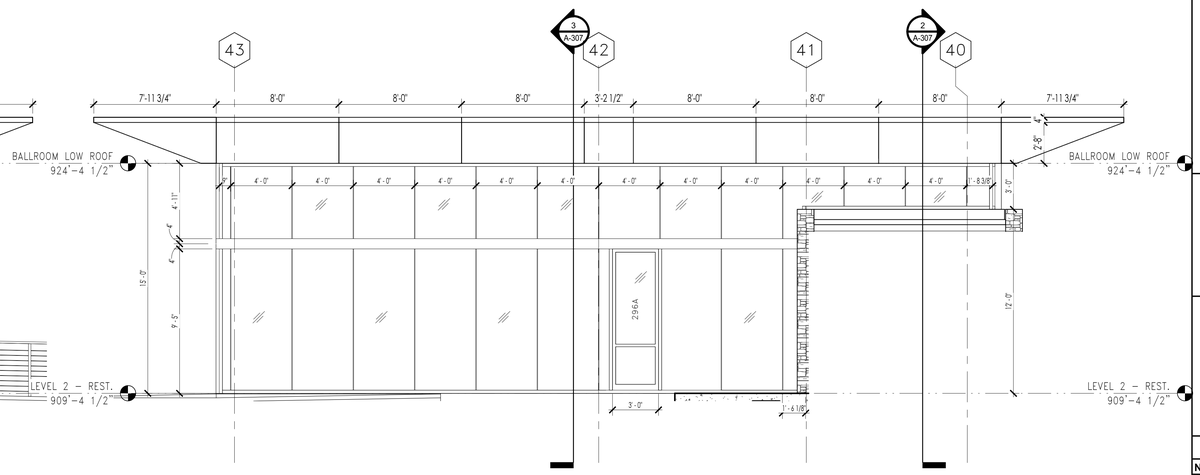
5 A-252 RESTAURANT ENTRY - LEFT
SCALE: 1/4" = 1'-0"



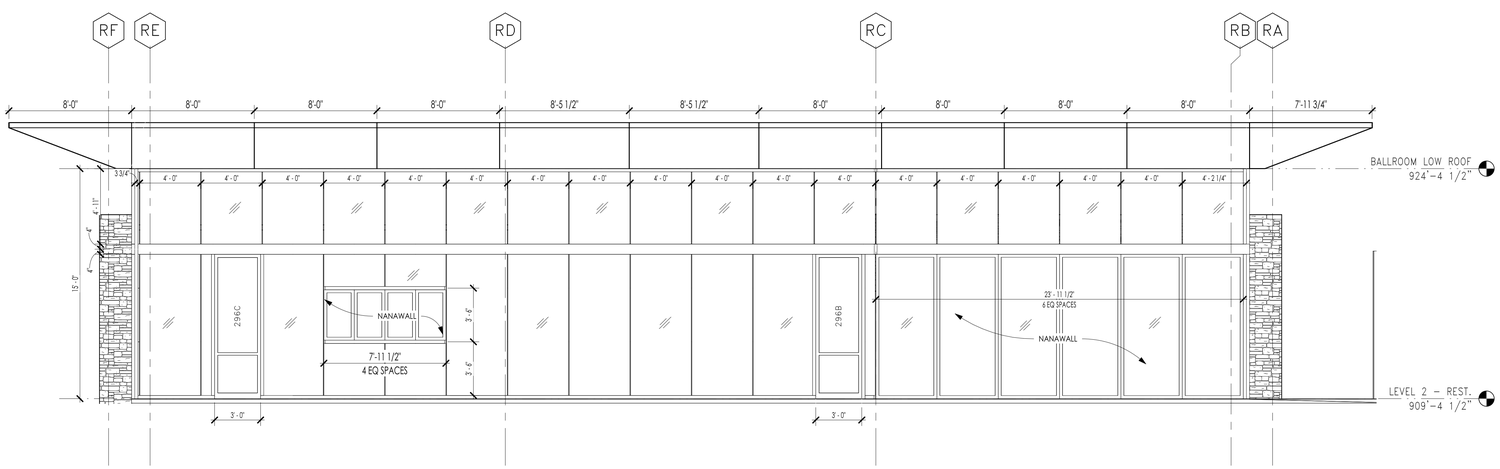
6 A-252 RESTAURANT ENTRY - RIGHT
SCALE: 1/4" = 1'-0"



2 A-252 RESTAURANT STOREFRONT - SIDE
SCALE: 1/4" = 1'-0"



4 A-252 RESTAURANT STOREFRONT - SIDE
SCALE: 1/4" = 1'-0"



3 A-252 RESTAURANT STOREFRONT - REAR
SCALE: 1/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
ENLARGED STOREFRONT ELEVATIONS

A-252
Sheet Number

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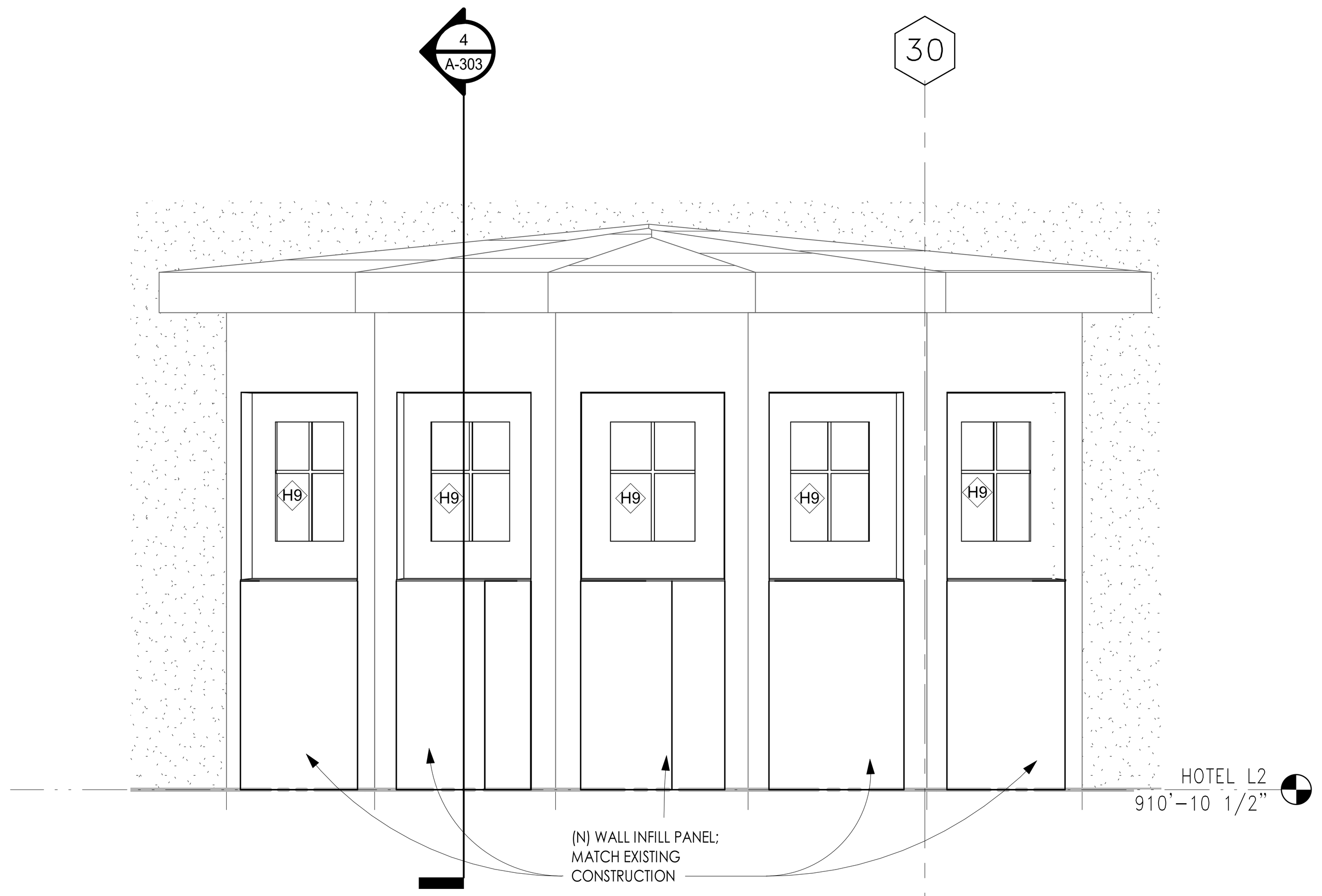
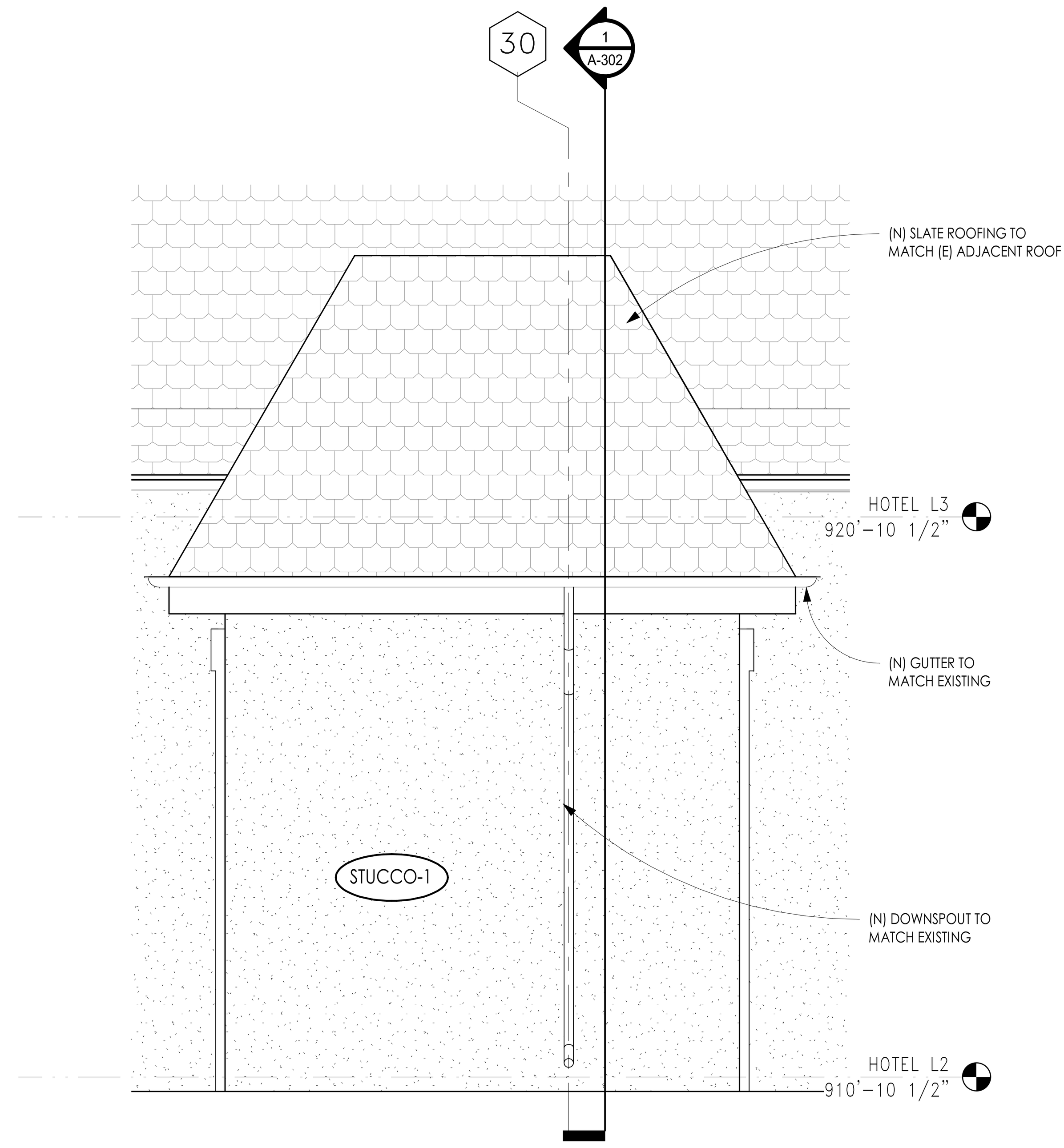
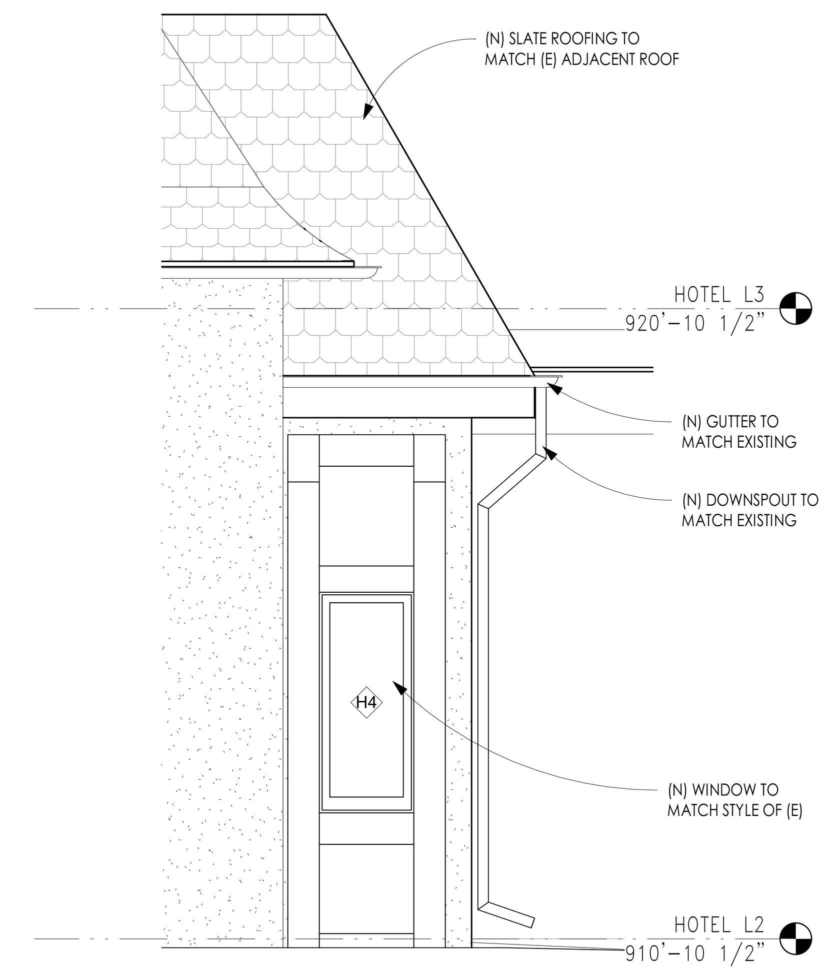


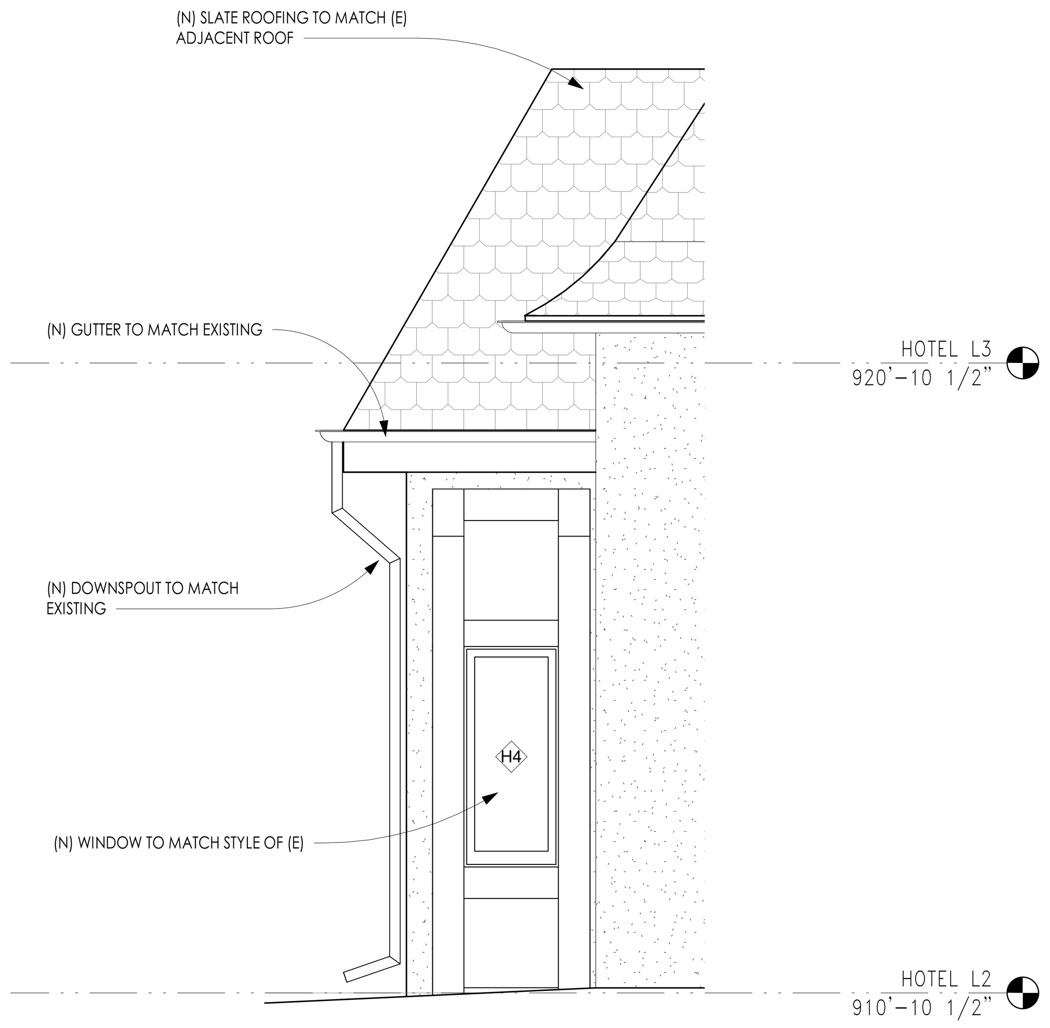
1 A-253 HOUSE BAY WINDOW ELEVATION
SCALE: 1/2" = 1'-0"



2 A-253 HOUSE VANITY ELEVATION
SCALE: 1/2" = 1'-0"



3 A-253 HOUSE VANITY ELEVATION - SIDE
SCALE: 1/2" = 1'-0"



4 A-253 HOUSE VANITY ELEVATION - SIDE
SCALE: 1/2" = 1'-0"

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STATE OF SOUTH CAROLINA
WILLIAM E. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
ENLARGED WINDOW ELEVATIONS

A-253
Sheet Number

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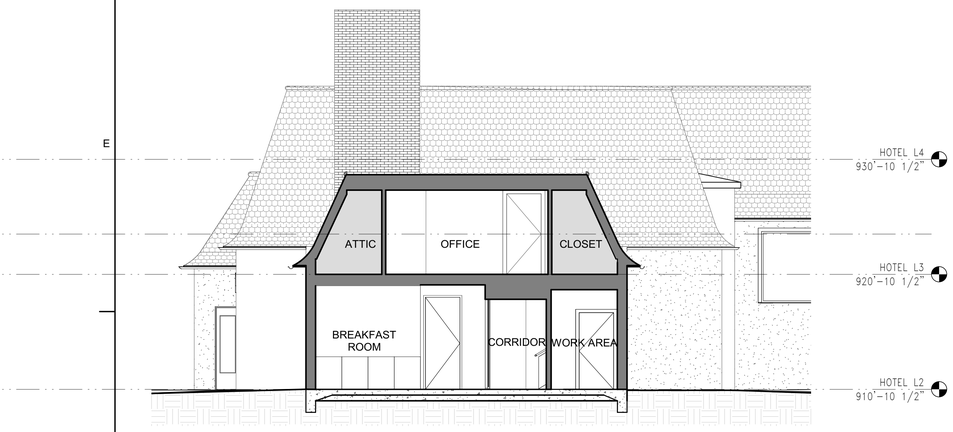
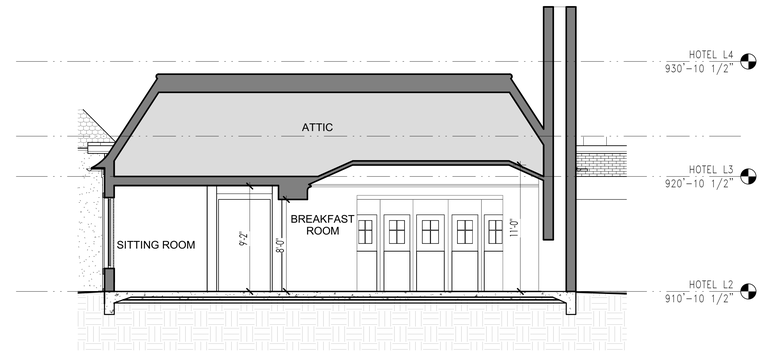
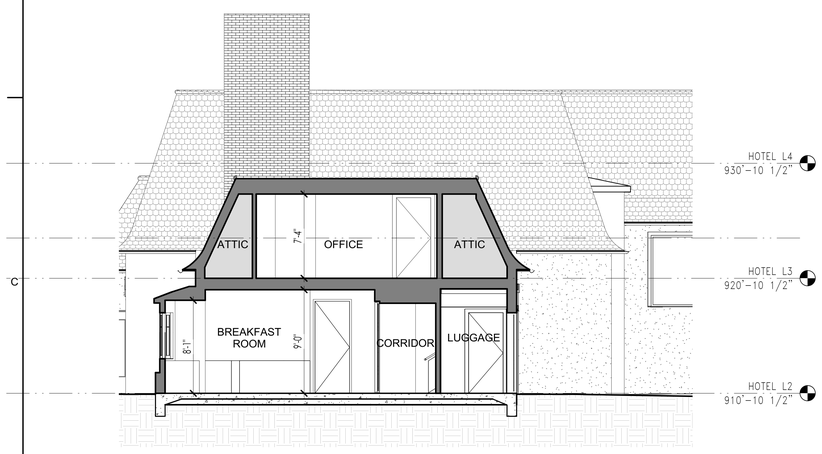


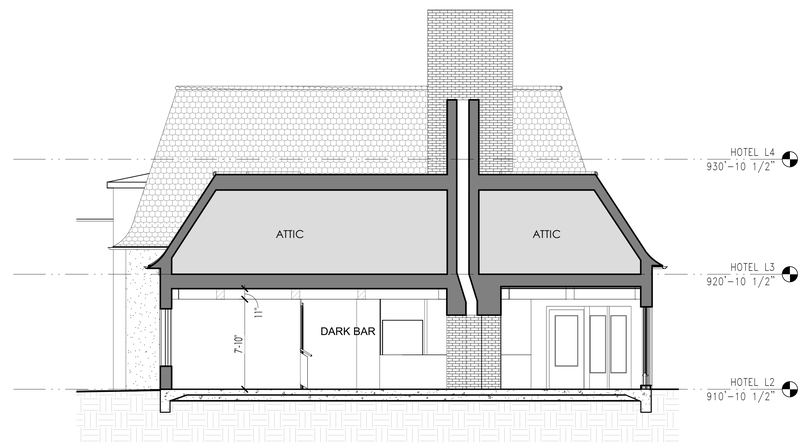
1 A-301 West Wing Section A
SCALE: 3/16" = 1'-0"



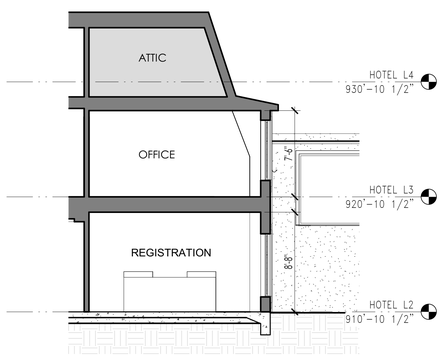
2 A-301 West Wing Section B
SCALE: 3/16" = 1'-0"



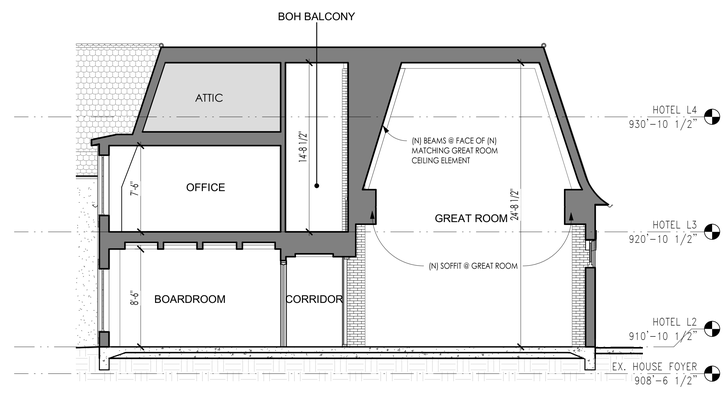
3 A-301 West Wing Section C
SCALE: 3/16" = 1'-0"



5 A-301 East Wing Section A
SCALE: 3/16" = 1'-0"



4 A-301 West Wing Section D
SCALE: 3/16" = 1'-0"



6 A-301 East Wing Section B
SCALE: 3/16" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
BUILDING SECTIONS

A-301
Sheet Number

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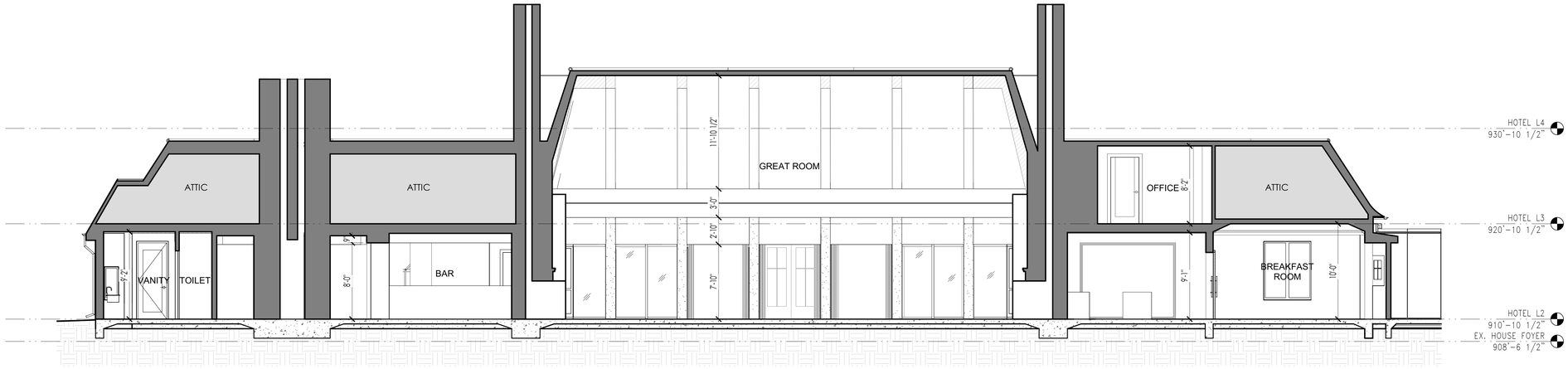
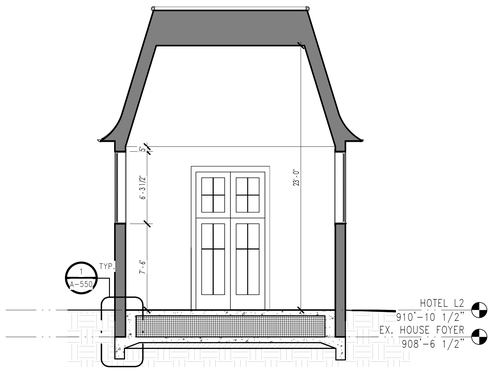
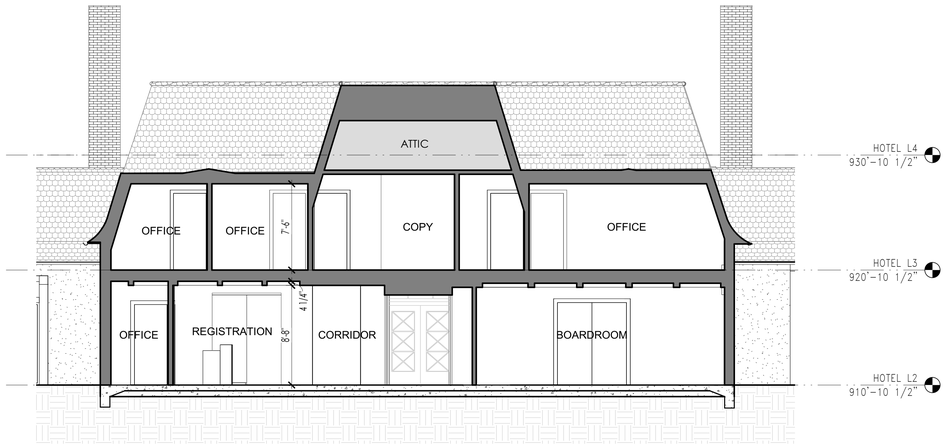


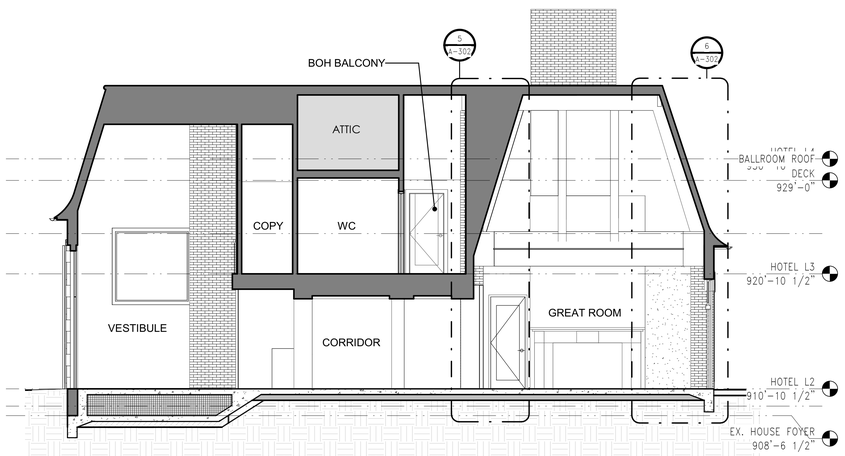
1 A-302 Main House Section A
SCALE: 3/16" = 1'-0"



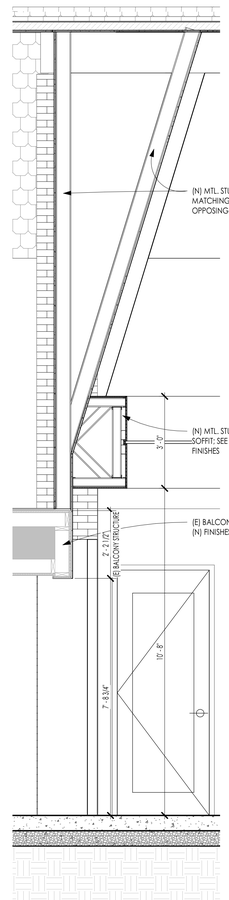
2 A-302 FOYER SECTION
SCALE: 3/16" = 1'-0"



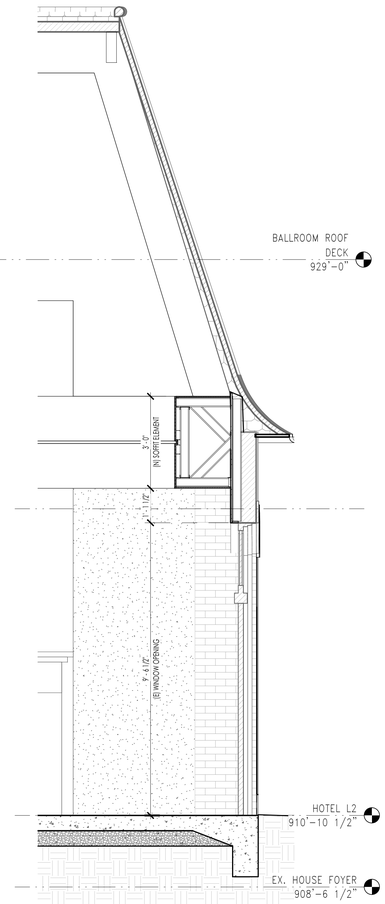
3 A-302 Main House Section B
SCALE: 3/16" = 1'-0"



4 A-302 Main House Section C
SCALE: 3/16" = 1'-0"



5 A-302 Wall Detail A
SCALE: 1/2" = 1'-0"



6 A-302 Wall Detail B
SCALE: 1/2" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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BUILDING SECTIONS

A-302
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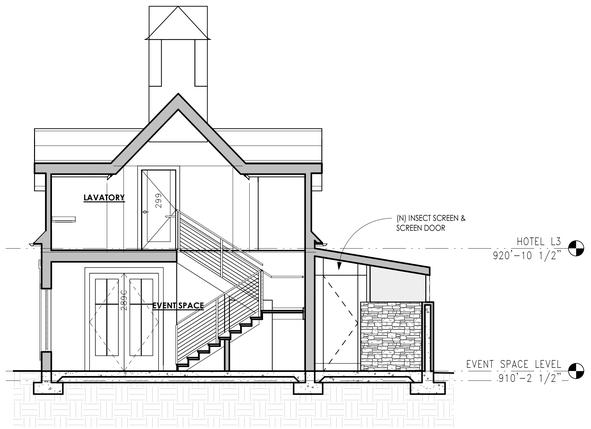
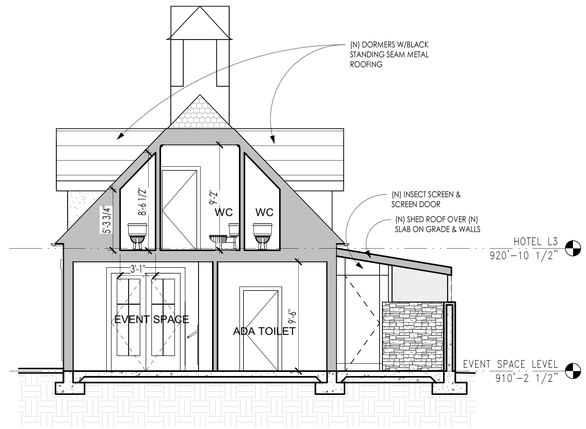
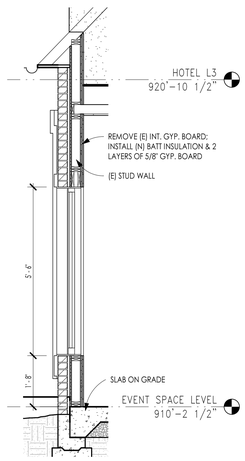


1 A-303 Event Space Section A
SCALE: 3/16" = 1'-0"

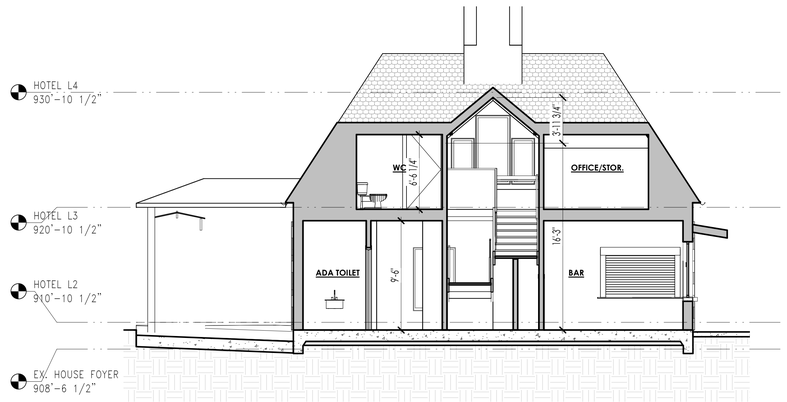


6 A-303 Event Space Section D
SCALE: 3/16" = 1'-0"

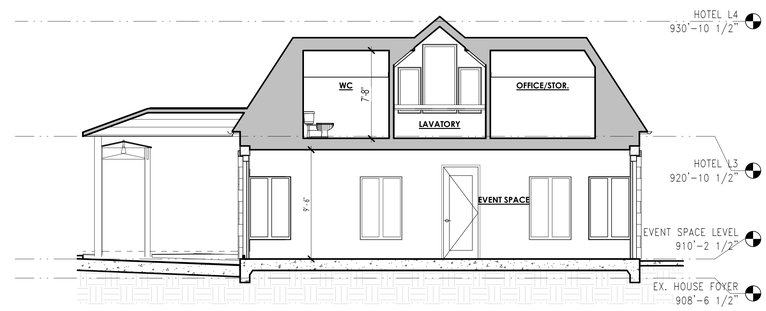
4 A-303 Event Space Section E
SCALE: 3/16" = 1'-0"



EVENT SPACE - WALL DETAIL
5 A-303
SCALE: 1/2" = 1'-0"



2 A-303 Event Space Section B
SCALE: 3/16" = 1'-0"



3 A-303 Event Space Section C
SCALE: 3/16" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
BUILDING SECTIONS

A-303
Sheet Number

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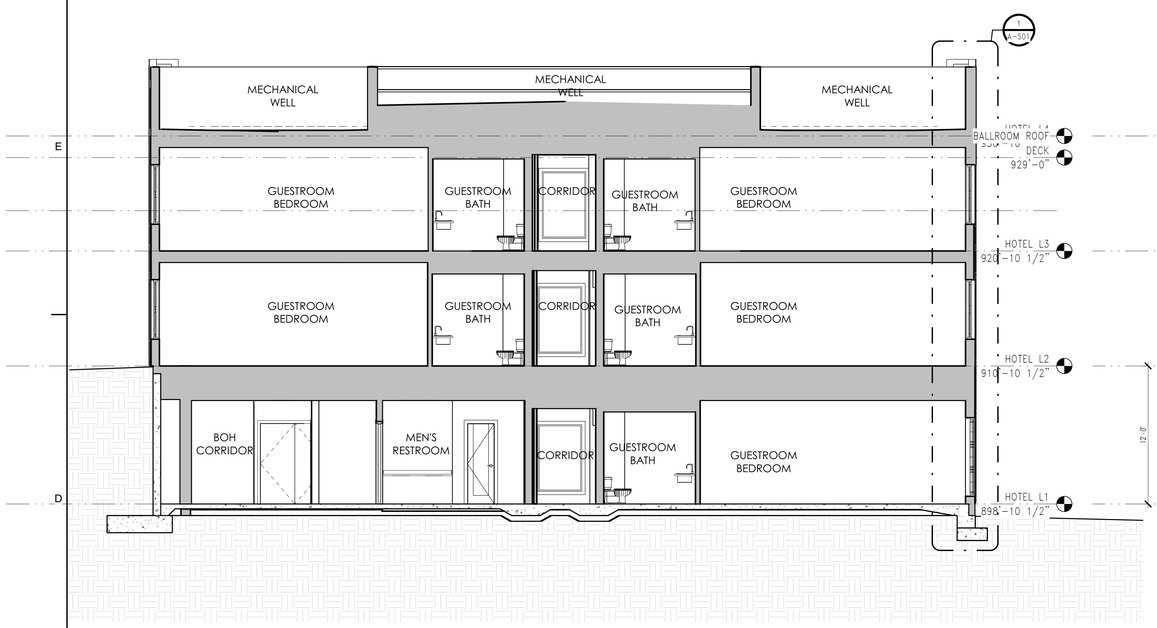
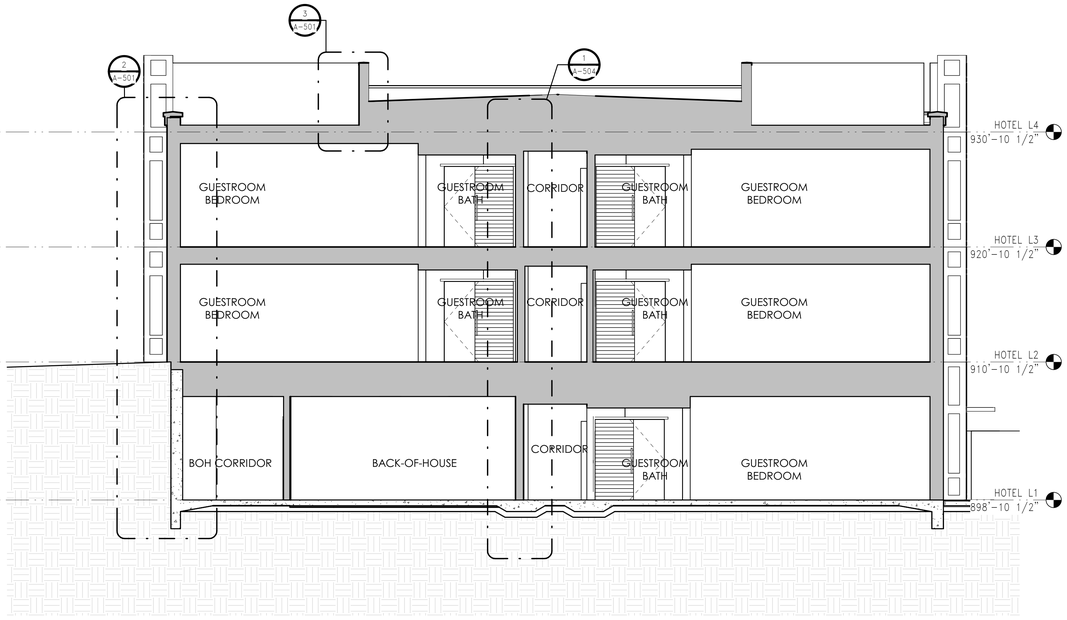


1 A-304 HOTEL - BUILDING SECTION 1
SCALE: 3/16" = 1'-0"



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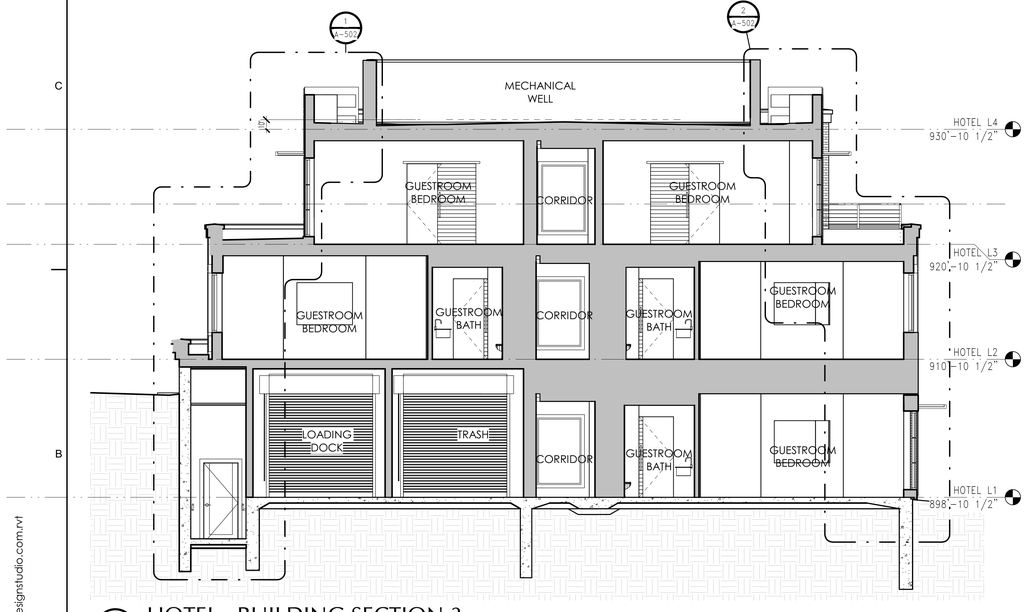

3 A-304 HOTEL - BUILDING SECTION 3
SCALE: 3/16" = 1'-0"

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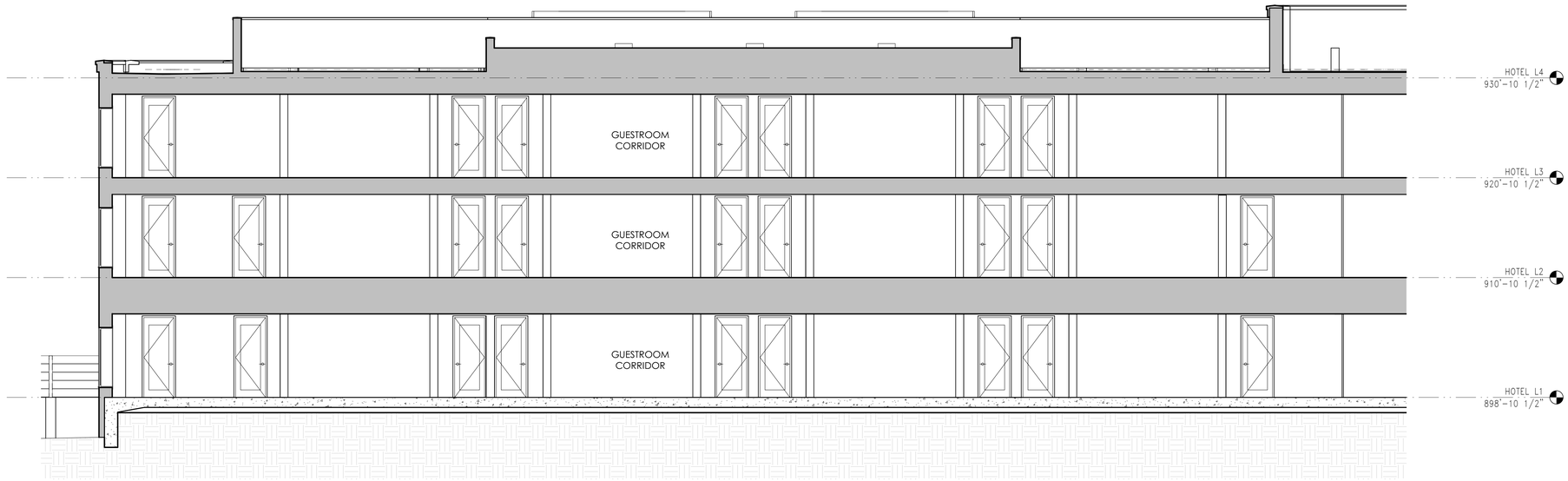
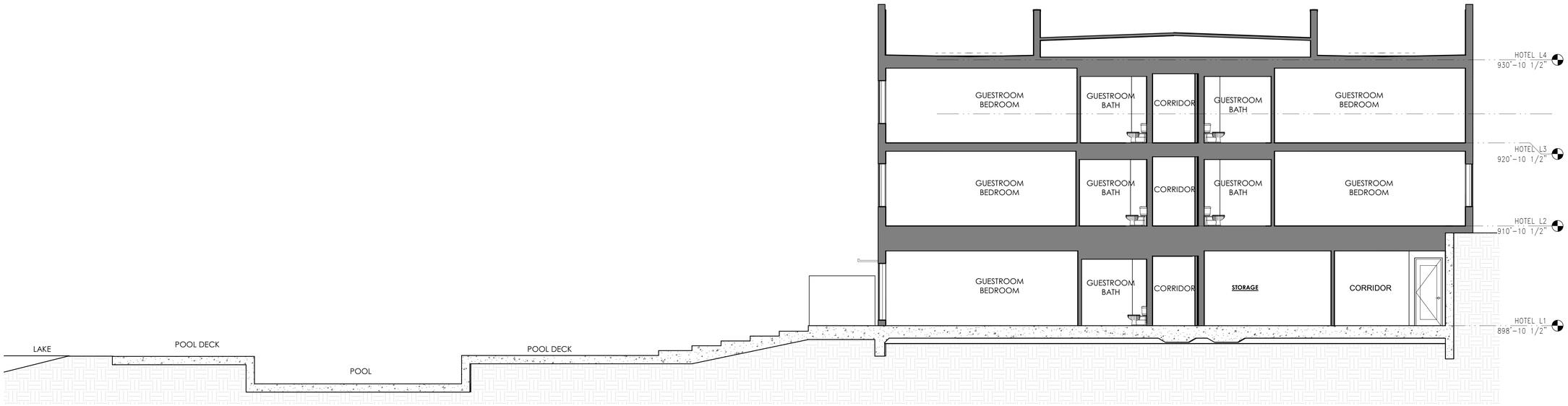


1 A-305 HOTEL BUILDING SECTION 4
SCALE: 3/16" = 1'-0"



2 A-305 HOTEL BUILDING SECTION 5
SCALE: 3/16" = 1'-0"

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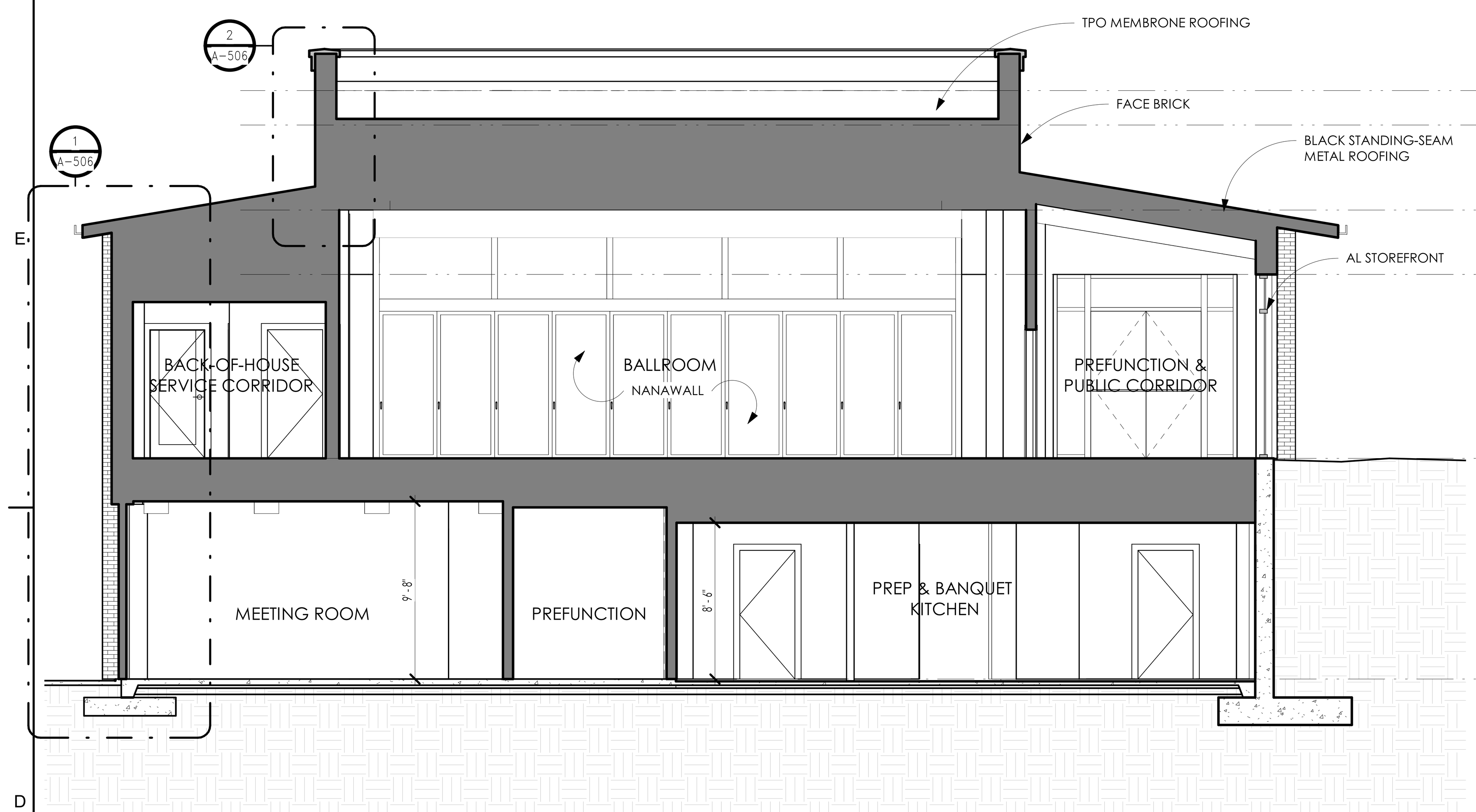
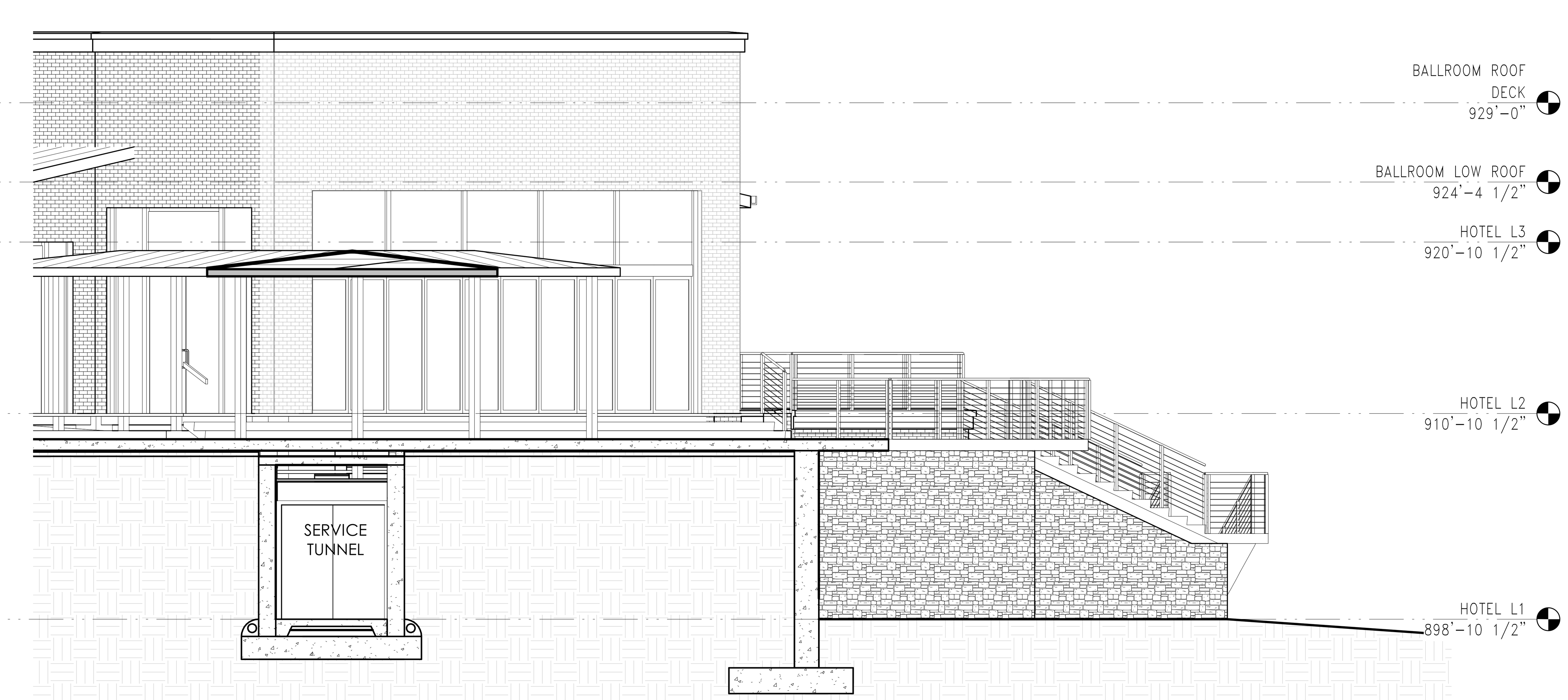
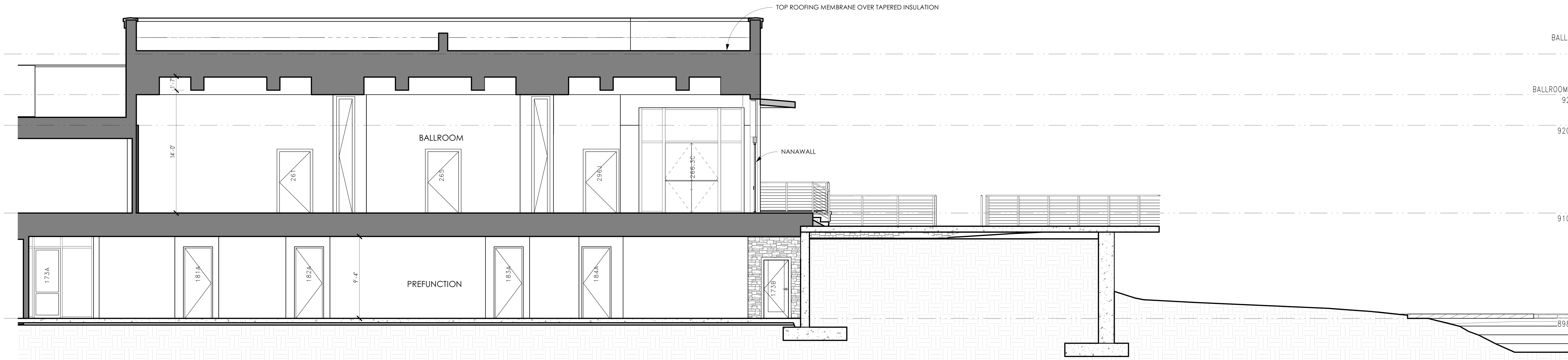


1 A-306 CONFERENCE BUILDING SECTION A
SCALE: 3/16" = 1'-0"



2 A-306 RESTAURANT TO CONFERENCE BUILDING SECTION
SCALE: 3/16" = 1'-0"



3 A-306 CONFERENCE BUILDING SECTION C
SCALE: 3/16" = 1'-0"

4 A-306 CONFERENCE BUILDING SECTION B
SCALE: 3/16" = 1'-0"

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Sheet Title
BUILDING SECTIONS

A-306
Sheet Number

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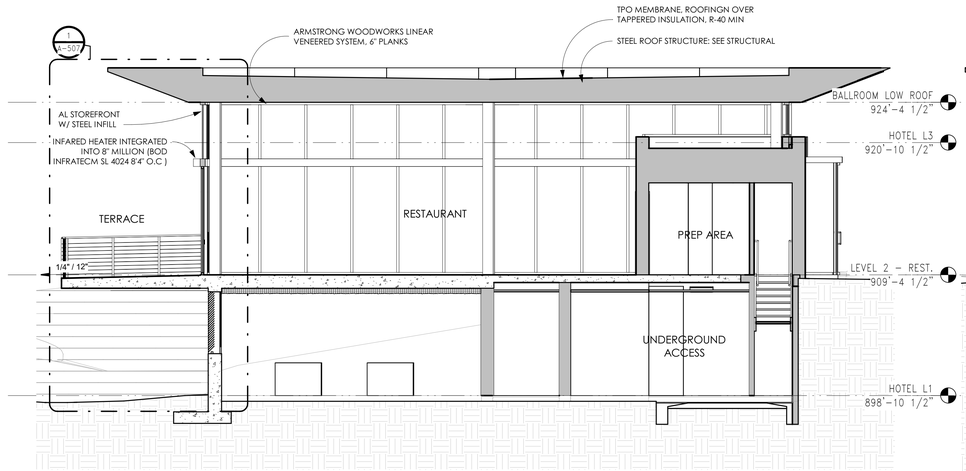
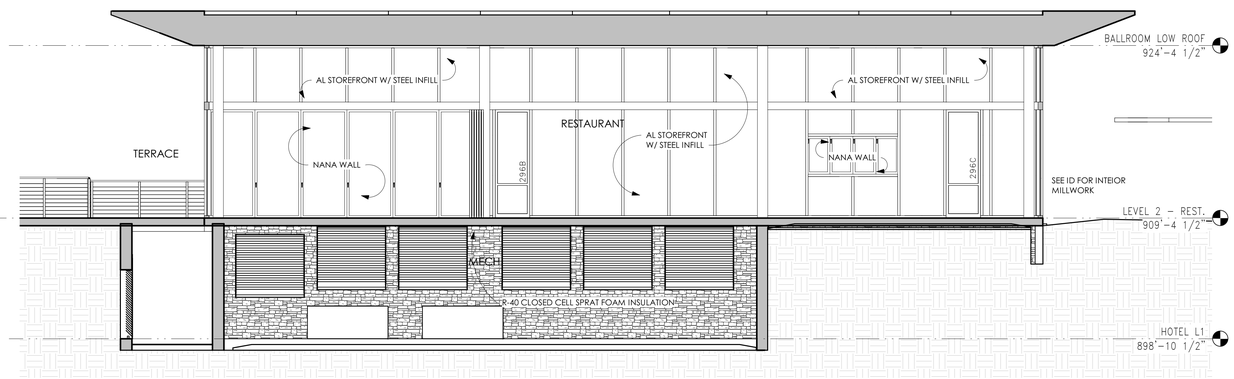


1 A-307 RESTAURANT BUILDING SECTION A

SCALE: 3/16" = 1'-0"

2 A-307 RESTAURANT BUILDING SECTION B

SCALE: 3/16" = 1'-0"



3 A-307 RESTAURANT BUILDING SECTION C

SCALE: 3/16" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
BUILDING SECTIONS

A-307
Sheet Number

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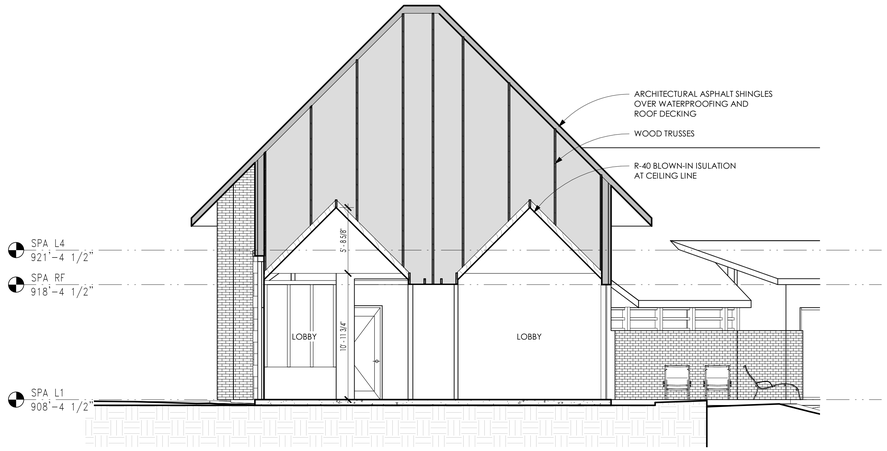
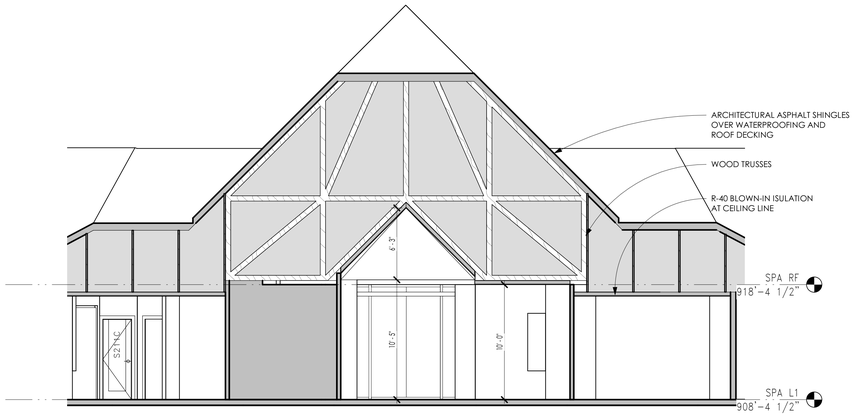


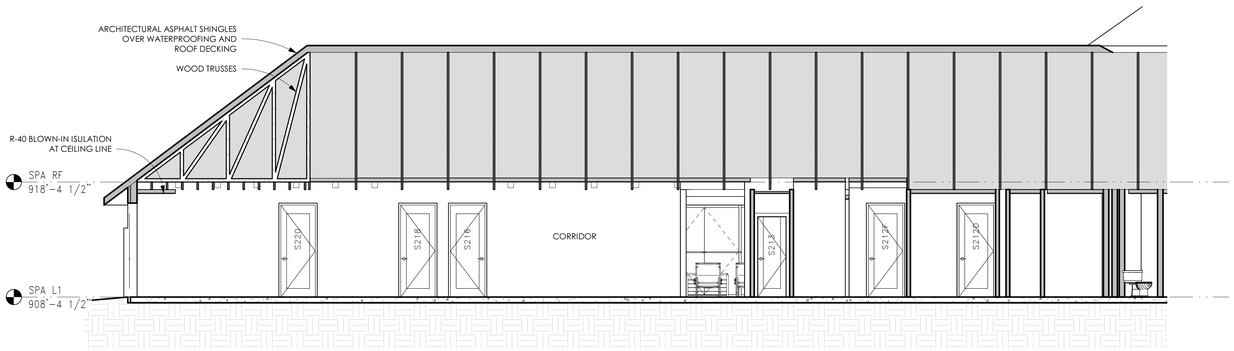
1 / A-308 SPA BUILDING SECTION A

SCALE: 3/16" = 1'-0"



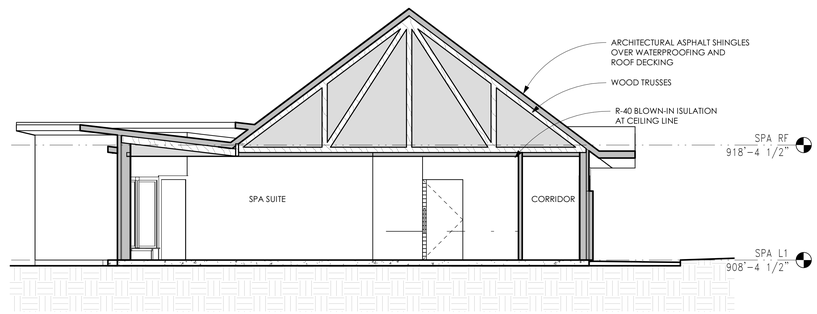
4 / A-308 SPA BUILDING SECTION B

SCALE: 3/16" = 1'-0"



3 / A-308 SPA BUILDING SECTION C

SCALE: 3/16" = 1'-0"



2 / A-308 SPA BUILDING SECTION D

SCALE: 3/16" = 1'-0"

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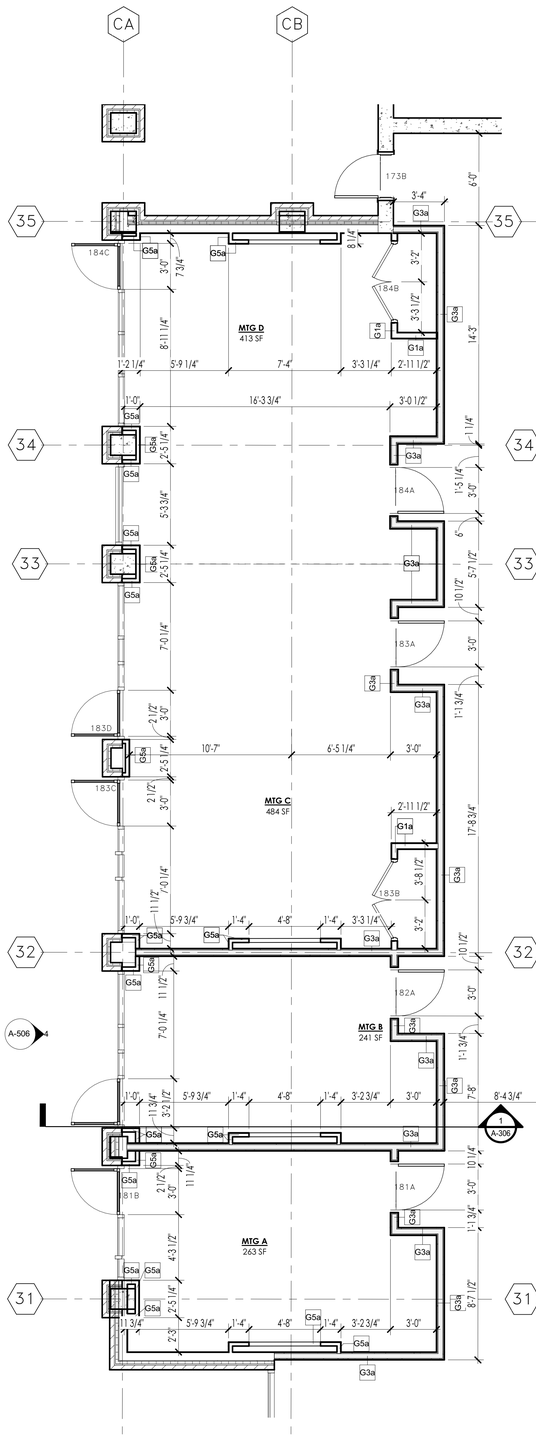
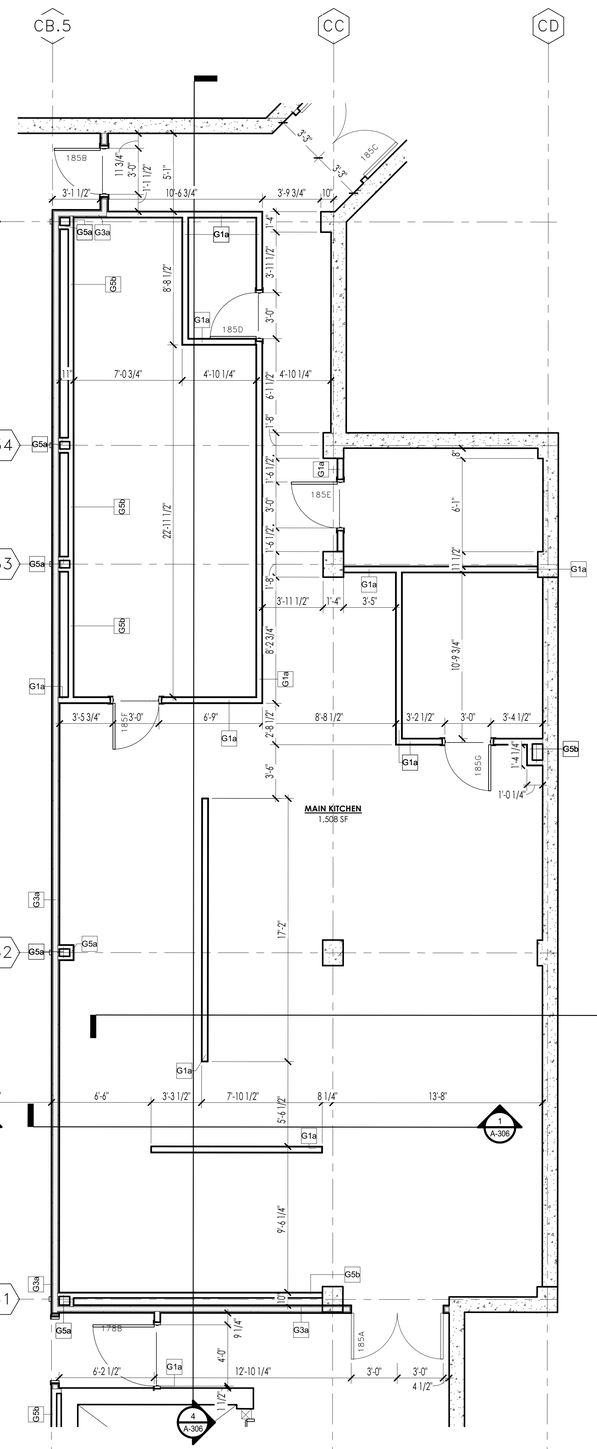
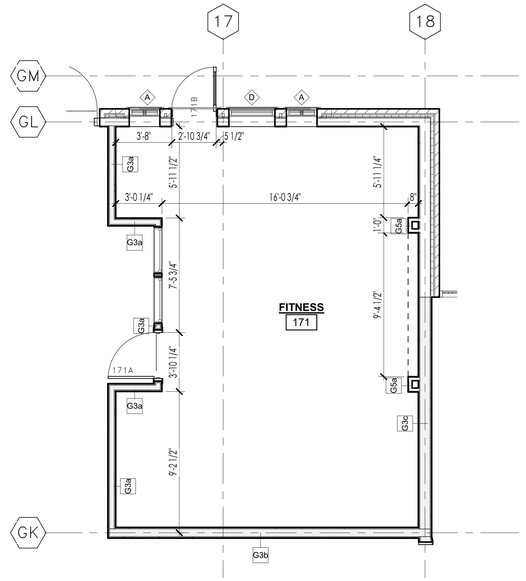


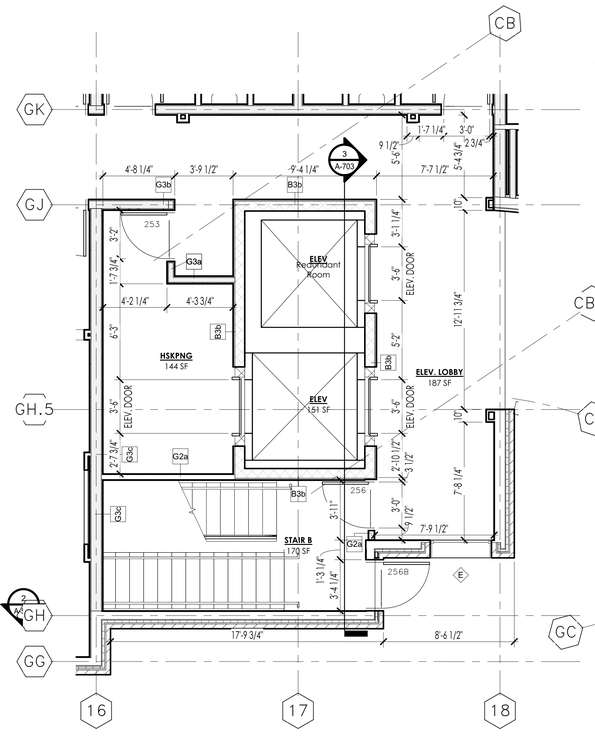
2 A-400 MEETING ROOMS ENLARGED PLAN
SCALE: 1/4" = 1'-0"



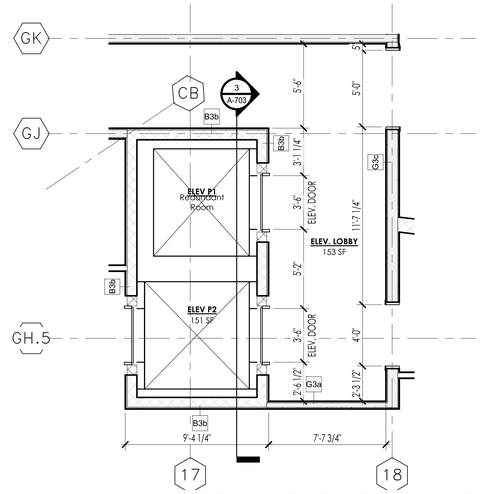
3 A-400 KITCHEN ENLARGED PLAN
SCALE: 1/4" = 1'-0"



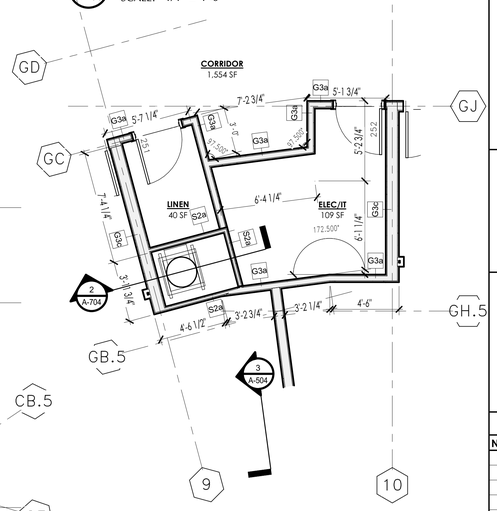
1 A-400 ENLARGED FITNESS CENTER PLAN
SCALE: 1/4" = 1'-0"



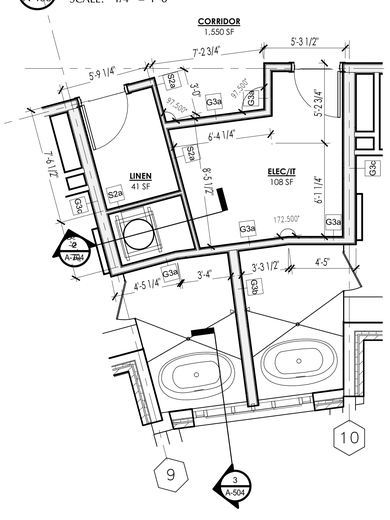
6 A-400 HOTEL HARTNESS ELEV. LOBBY PLAN - LEVEL 2
SCALE: 1/4" = 1'-0"



4 A-400 HOTEL HARTNESS ELEV. LOBBY PLAN - LEVEL 1
SCALE: 1/4" = 1'-0"



5 A-400 HOTEL HARTNESS ENLARGED LINEN & ELEC/ IT - LEVEL 2
SCALE: 1/4" = 1'-0"



7 A-400 HOTEL HARTNESS ENLARGED LINEN & ELEC/ IT - LEVEL 3
SCALE: 1/4" = 1'-0"

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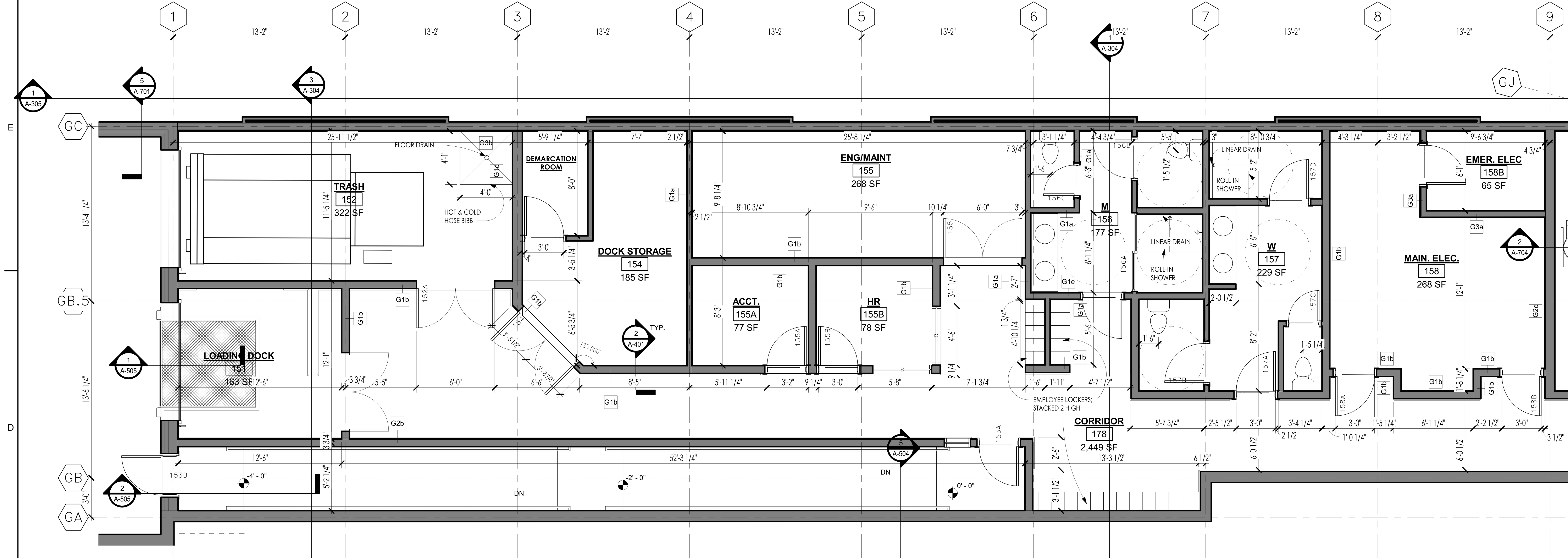
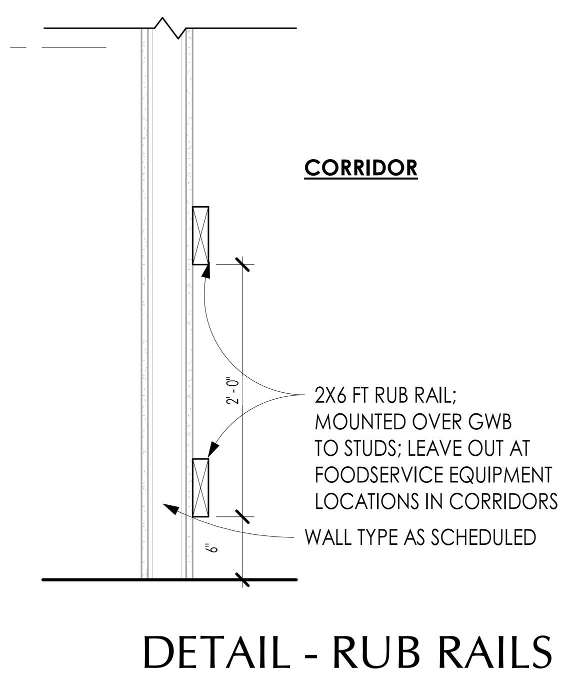


ENLARGED PLAN - LOADING DOCK

1 A-401 SCALE: 1/4" = 1'-0"



DETAIL - RUB RAILS @ BOH CORRIDOR

2 A-401 SCALE: 1" = 1'-0"

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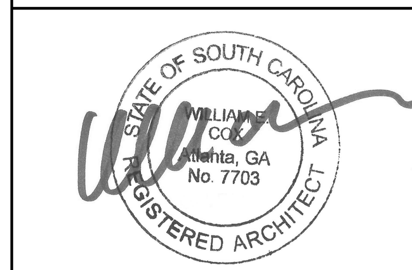

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Sheet Title
ENLARGED PLANS - L1 BOH

A-401
Sheet Number

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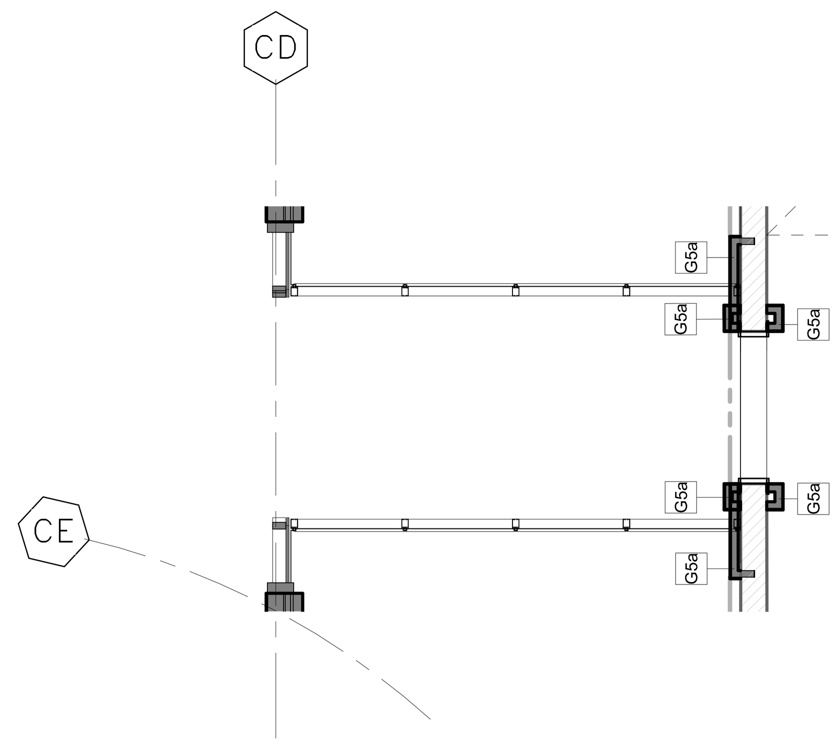

ARRIVAL LOBBY BRIDGE ENLARGED PLAN - LEVEL 2

1
A-402
SCALE: 1/4" = 1'-0"

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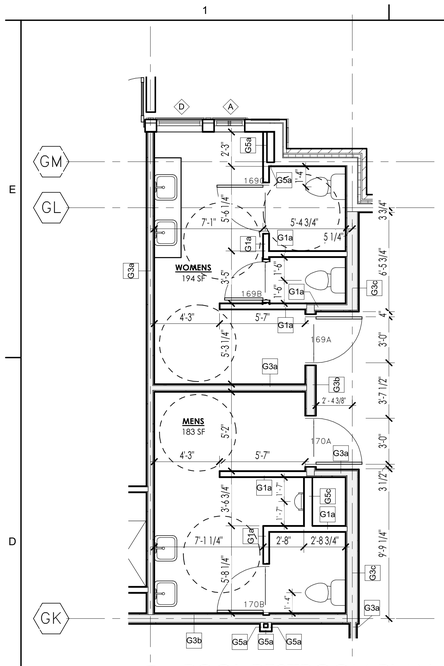
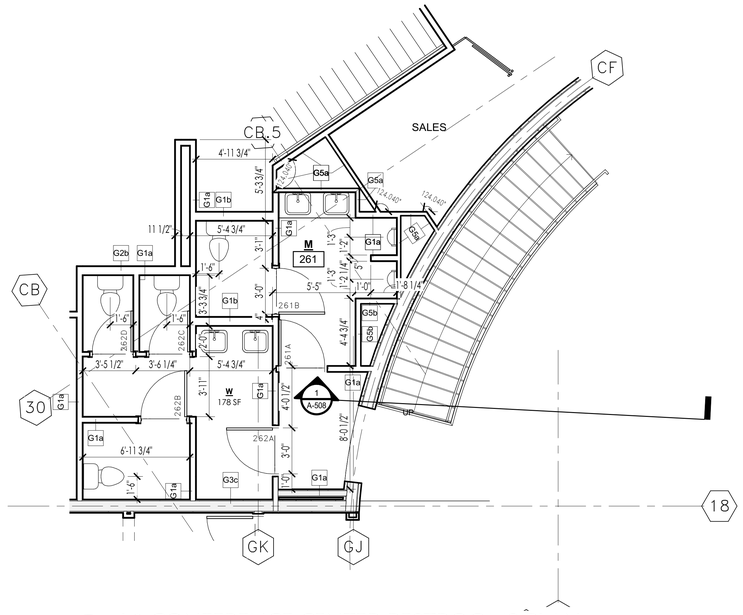
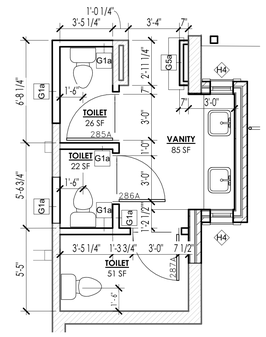


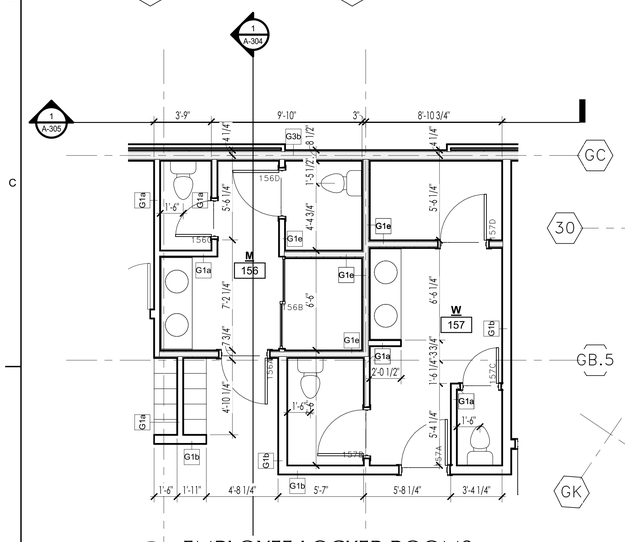
6 A-420 POOL RESTROOM PLAN
SCALE: 1/4" = 1'-0"



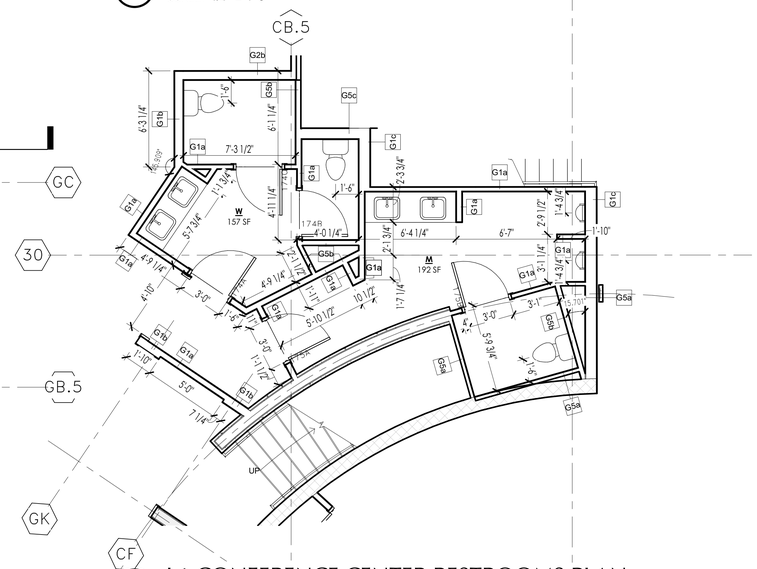
2 A-420 L2 CONFERENCE CENTER RESTROOMS PLAN
SCALE: 1/4" = 1'-0"



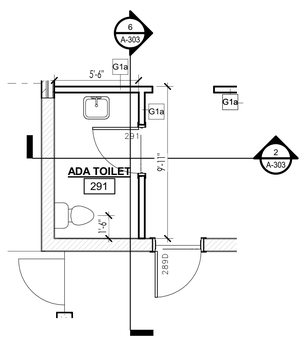
4 A-420 THE CAPTAIN RESTROOMS PLAN
SCALE: 1/4" = 1'-0"



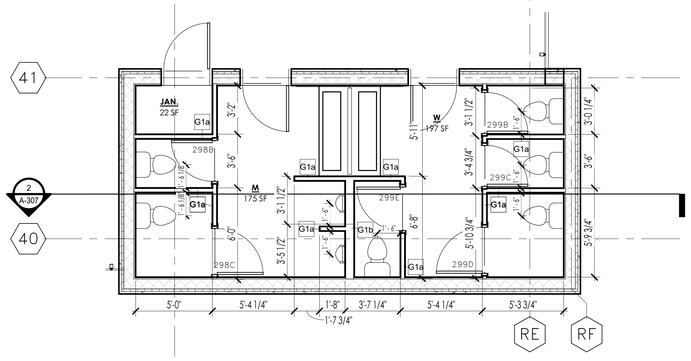
7 A-420 EMPLOYEE LOCKER ROOMS
SCALE: 1/4" = 1'-0"



1 A-420 L1 CONFERENCE CENTER RESTROOMS PLAN
SCALE: 1/4" = 1'-0"



5 A-420 L2 EVENT SPACE RESTROOM PLAN
SCALE: 1/4" = 1'-0"



3 A-420 PATTERSONS - ENLARGED RESTROOM PLAN
SCALE: 1/4" = 1'-0"
RD

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RESTROOM PLANS

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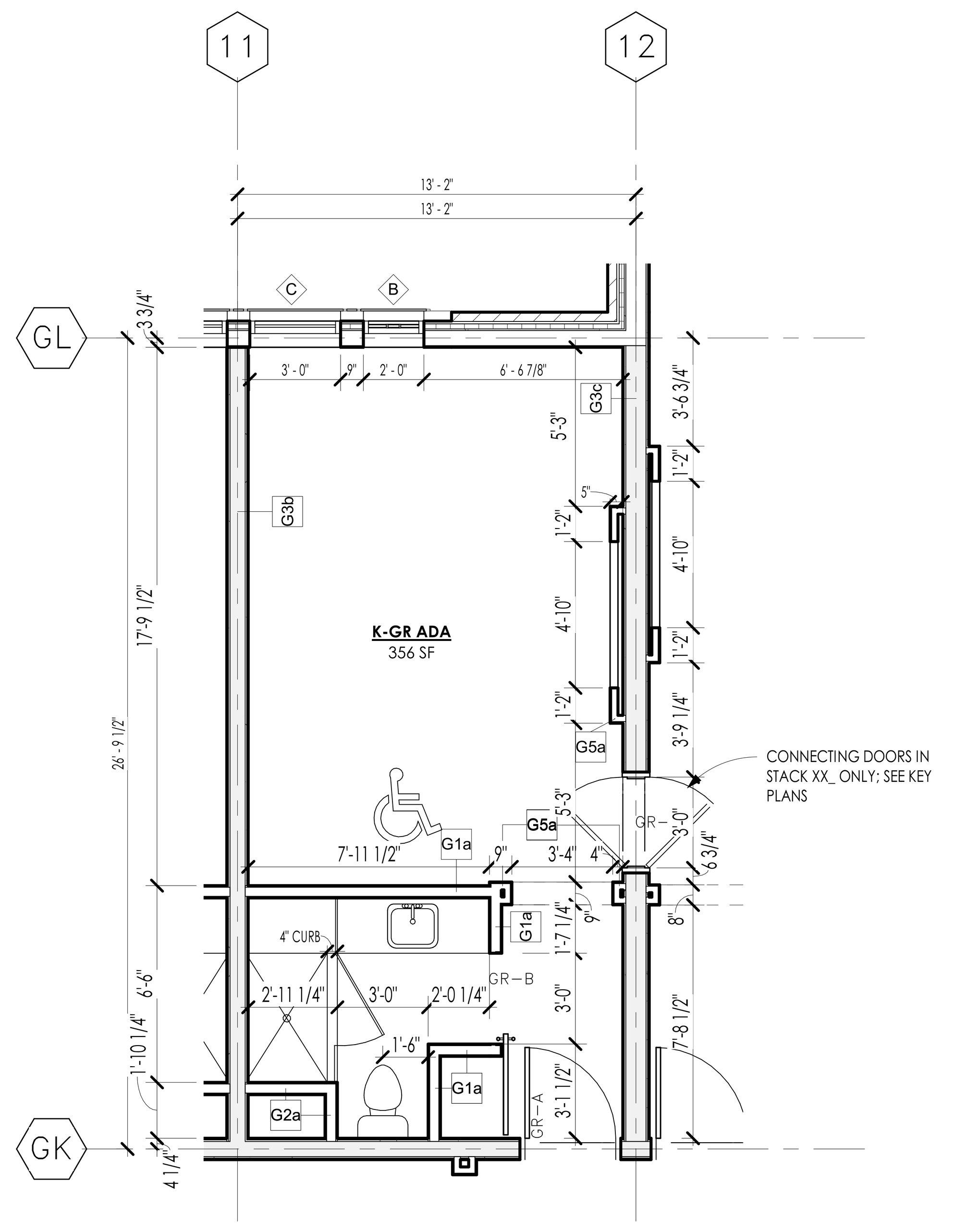
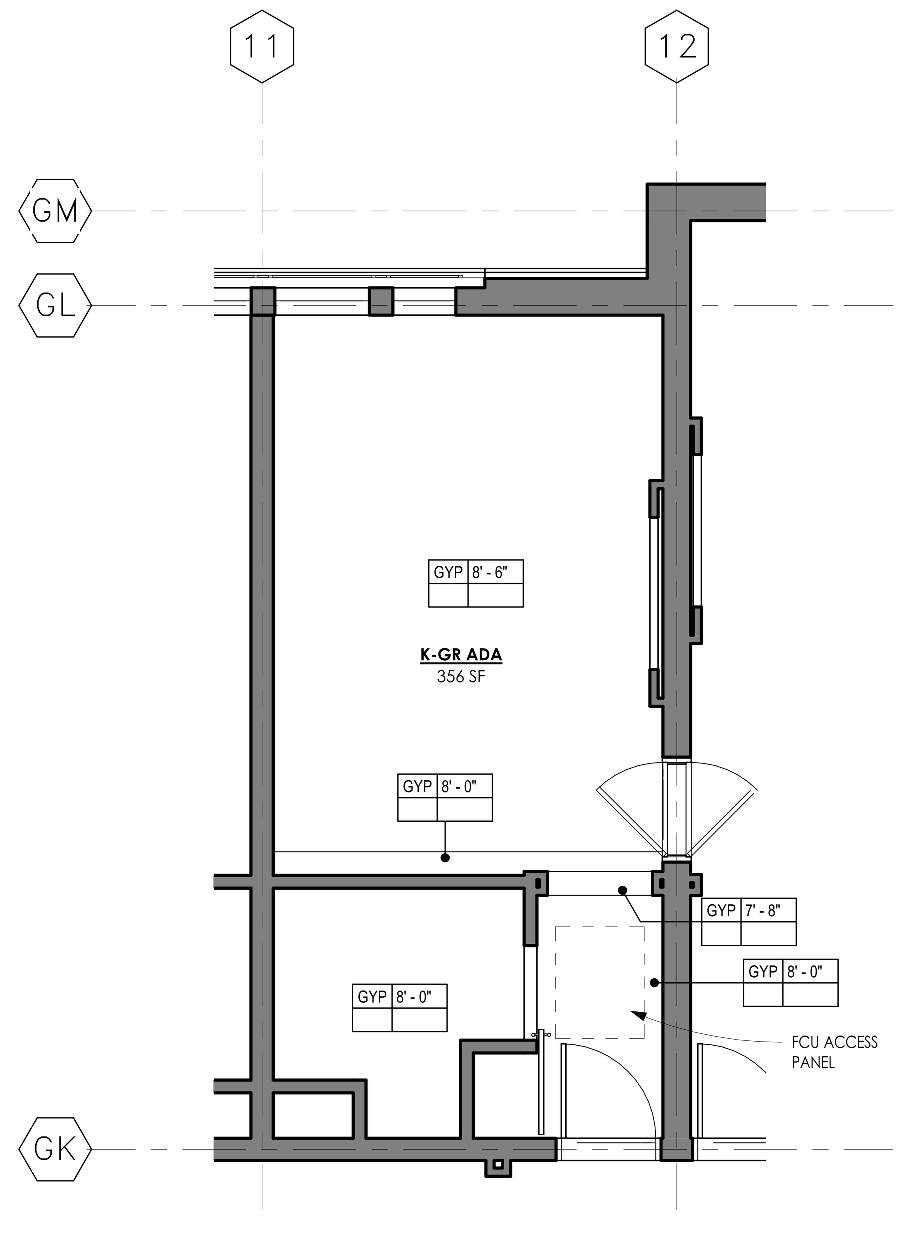
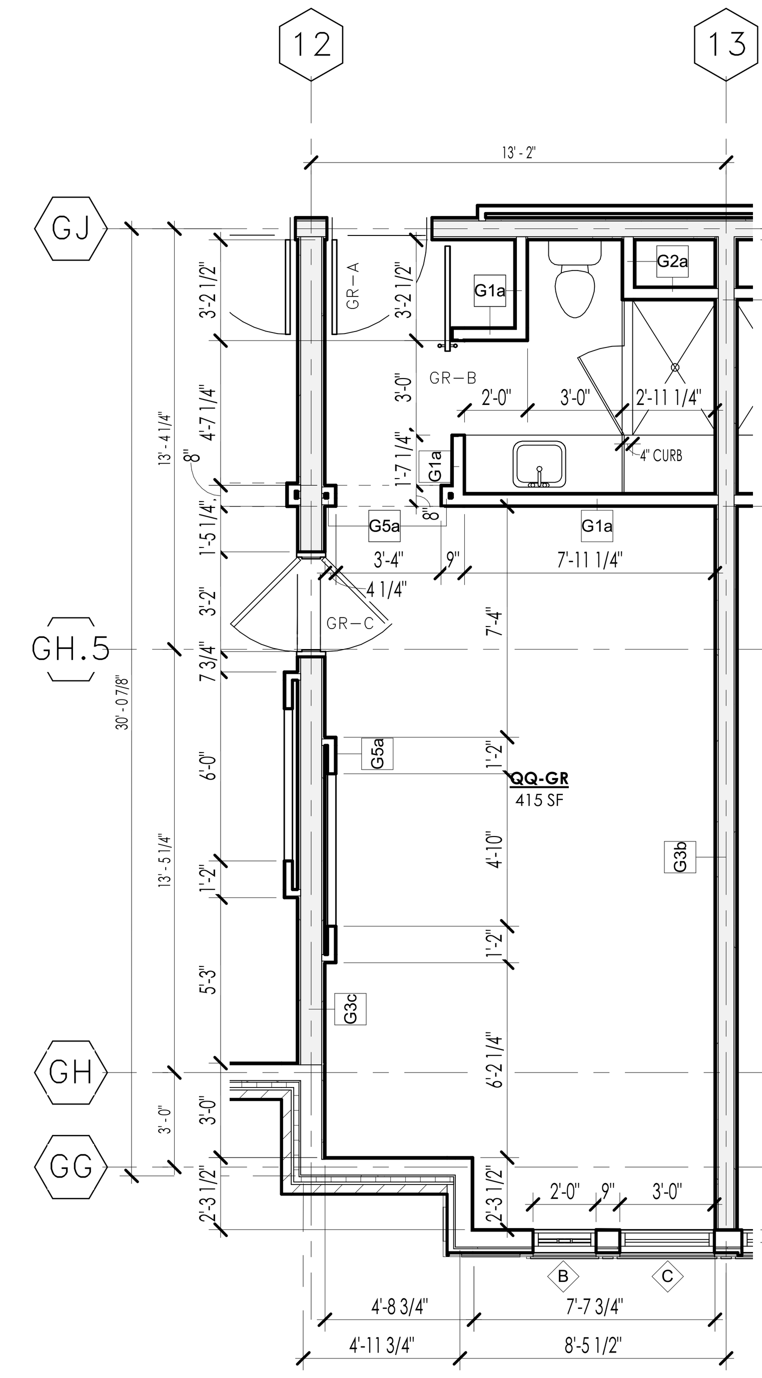


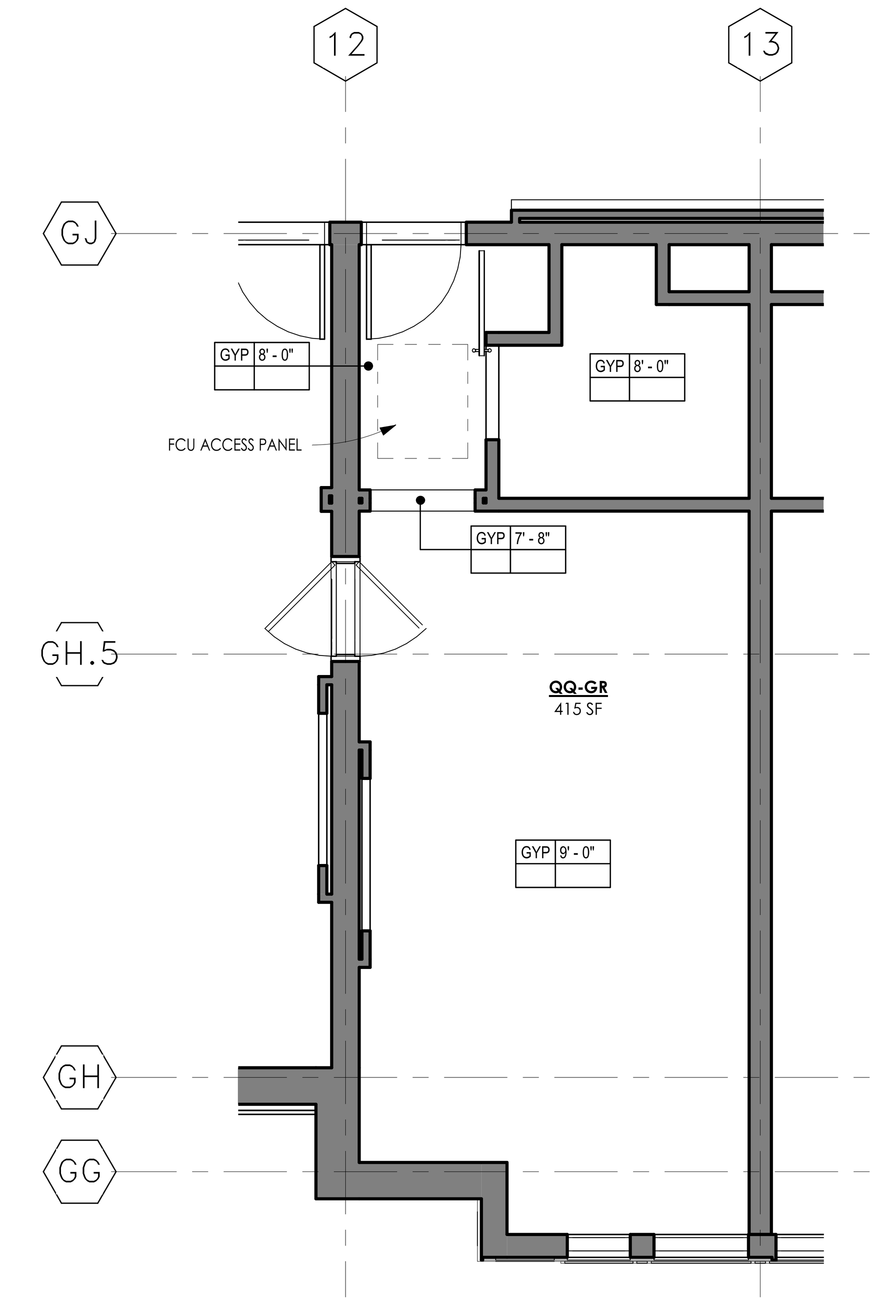
3 A-450 K GR - Enlarged Plan
SCALE: 1/4" = 1'-0"



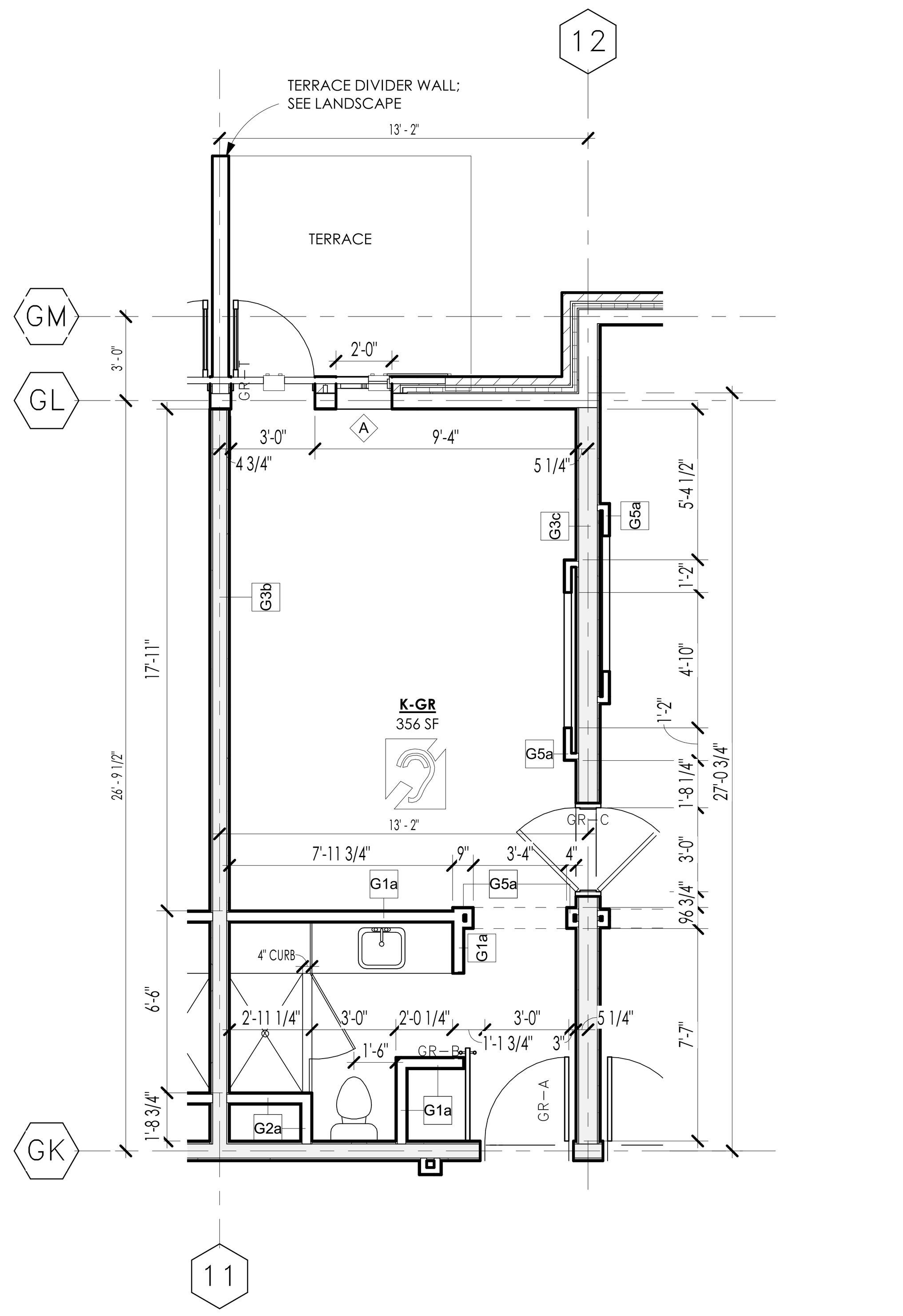
4 A-450 K GR - Enlarged RCP
SCALE: 1/4" = 1'-0"



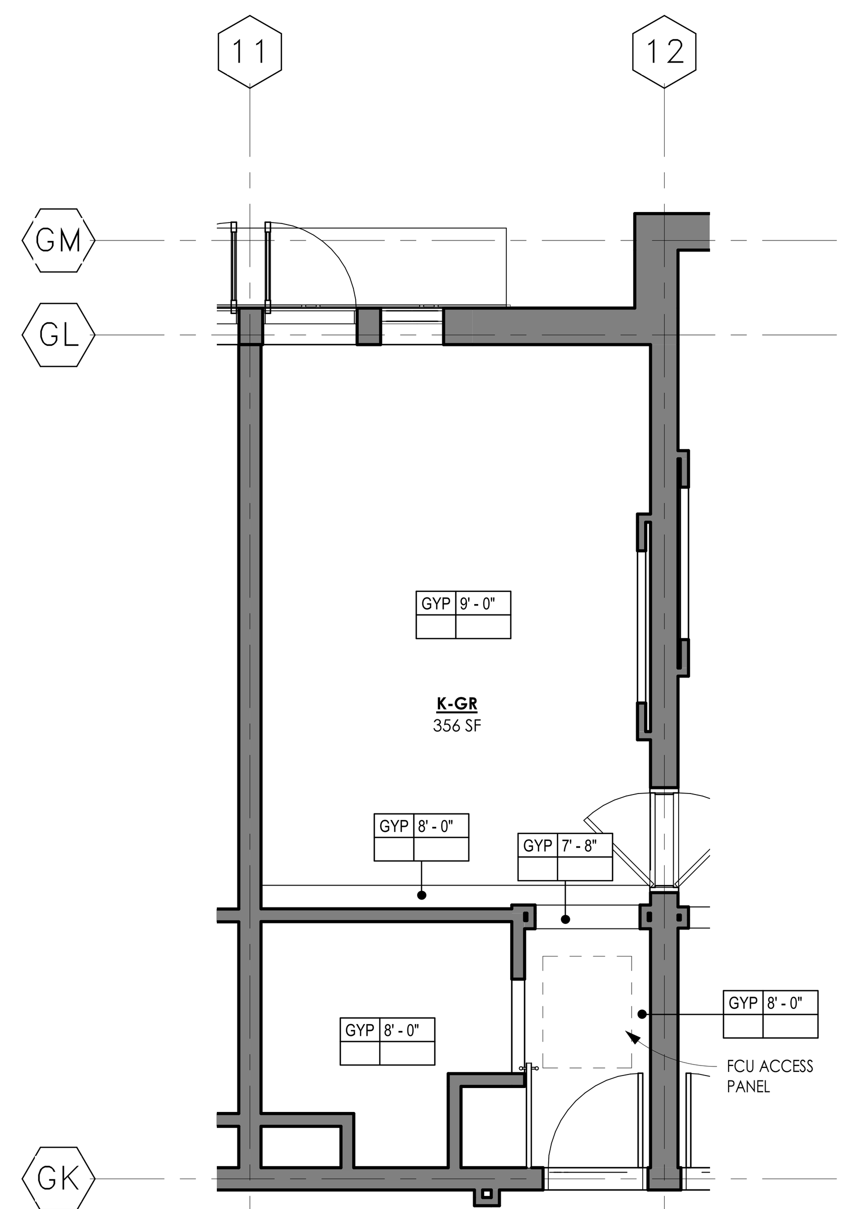
1 A-450 QQ GR - Enlarged Plan
SCALE: 1/4" = 1'-0"



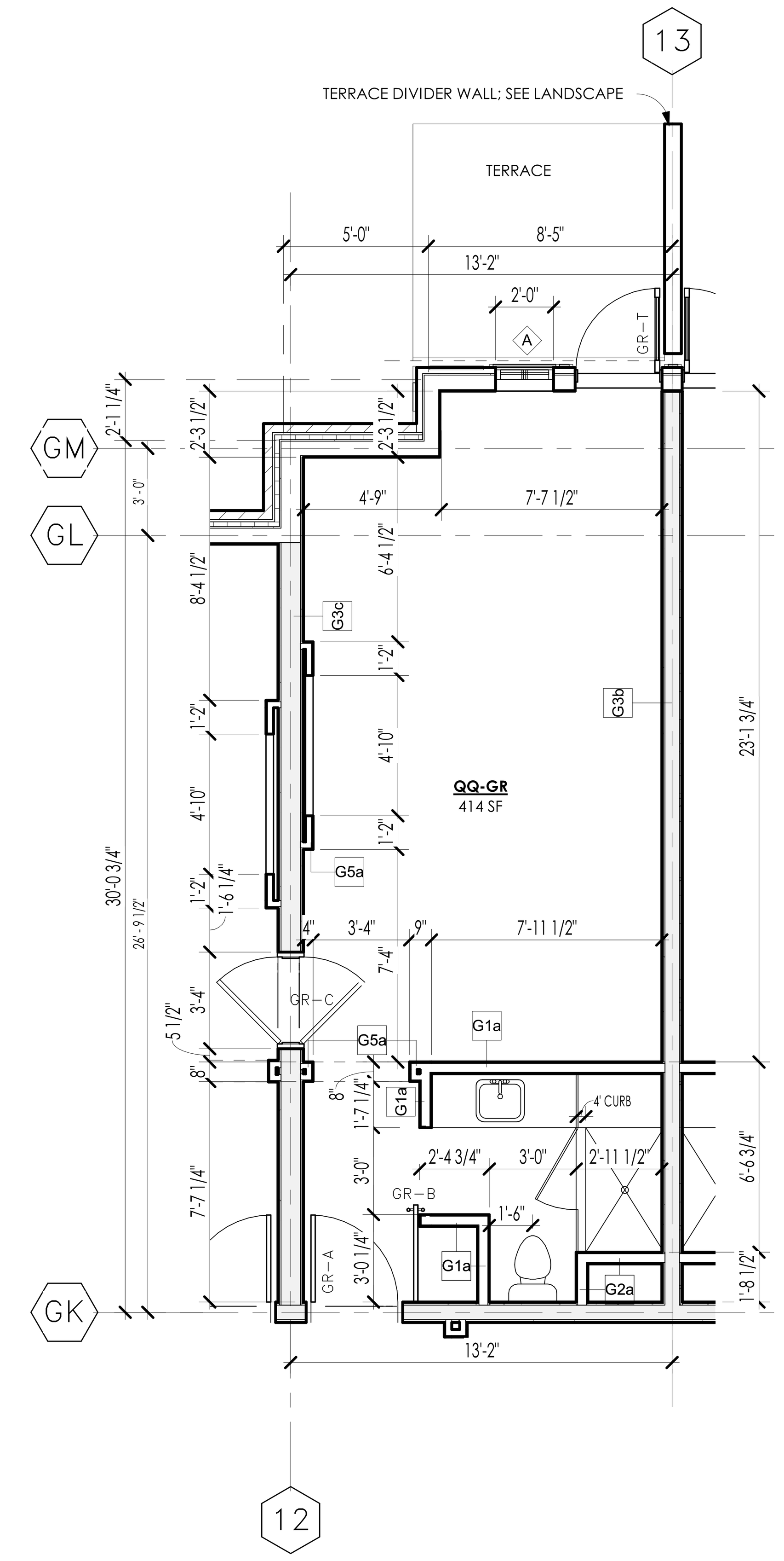
2 A-450 QQ GR - Enlarged RCP
SCALE: 1/4" = 1'-0"



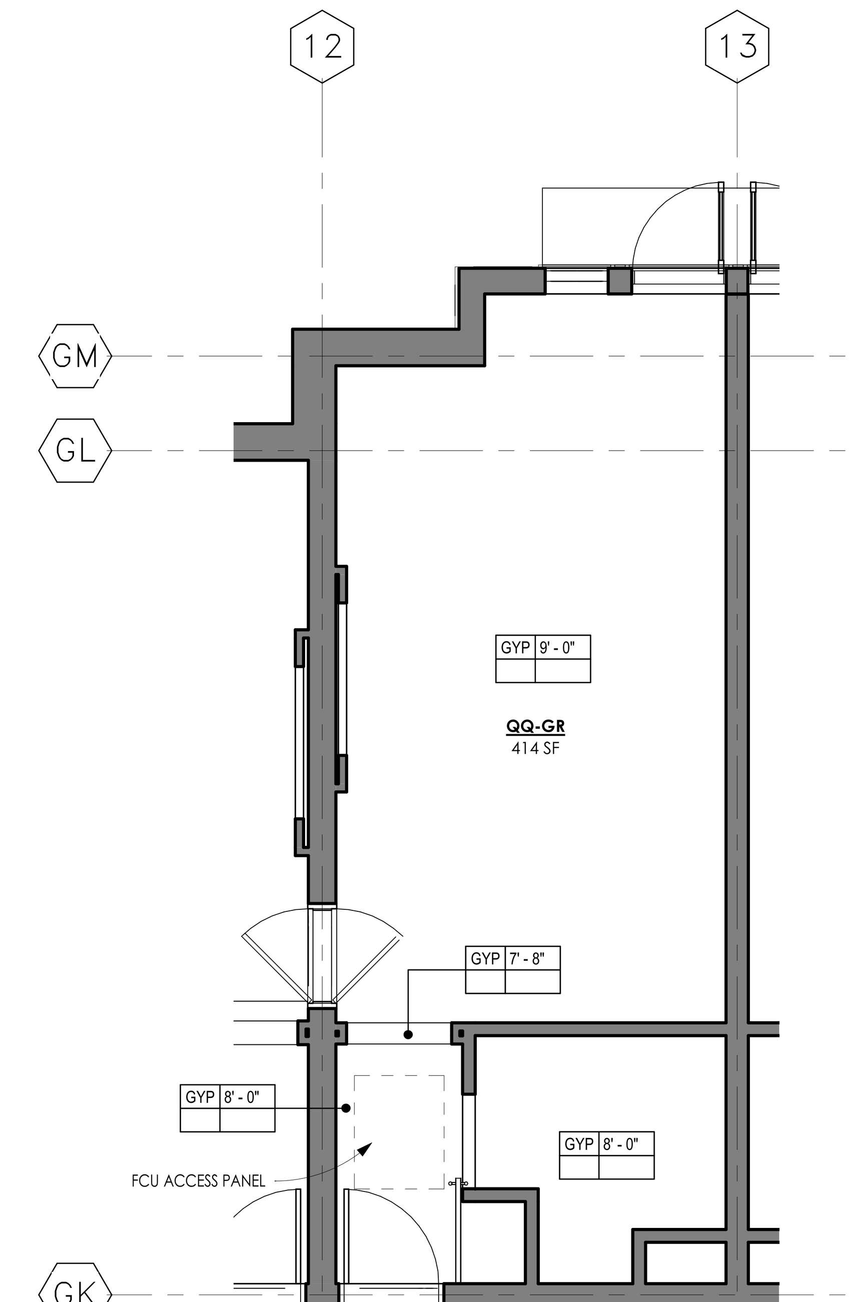
5 A-450 K GR w/Terrace - Enlarged Plan
SCALE: 1/4" = 1'-0"



6 A-450 K GR w/Terrace - Enlarged RCP
SCALE: 1/4" = 1'-0"



7 A-450 QQ GR w/Terrace - Enlarged Plan
SCALE: 1/4" = 1'-0"



8 A-450 QQ GR w/Terrace - Enlarged RCP
SCALE: 1/4" = 1'-0"

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WILLIAM E. COX
Atlanta, GA
No. 7703

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
GUESTROOM PLANS

A-450
Sheet Number

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GUESTROOMS w/ COMMUNICATION FEATURES

TOTAL NUMBER OF GUESTROOMS AND SUITES: 69
REQUIRED COMMUNICATION ACCESSIBLE ROOMS (PER TABLE 224.4, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 806.3) REQUIRED GUEST ROOMS WITH COMMUNICATION FEATURES SHALL BE DISPERSED AMONG ALL CLASSES OF GUESTSROOMS:

 # OF UNITS PROVIDED: 7

PROVIDE A MINIMUM OF -- UNITS COMPLYING ADAAG REQUIREMENTS FOR ACCESSIBLE COMMUNICATION FEATURES. THESE INCLUDE:

1. GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH 806.3

2. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, ALARMS COMPLYING WITH 702 SHALL BE PROVIDED.

3. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (1999 OR 2002 EDITION)(INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1), EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 dB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION)

4. PER ADAAG; VISIBLE NOTIFICATION DEVICES SHALL BE PROVIDED TO ALERT ROOM OCCUPANTS OF INCOMING TELEPHONE CALLS AND A DOOR KNOCK OR BELL. NOTIFICATION DEVICES SHALL NOT BE CONNECTED TO VISIBLE ALARM SIGNAL APPLIANCES. TELEPHONES SHALL HAVE VOLUME CONTROLS COMPATIBLE WITH THE TELEPHONE SYSTEM AND SHALL COMPLY WITH 704.3. TELEPHONES SHALL BE SERVED BY AN ELECTRICAL OUTLET COMPLYING WITH 309 LOCATED WITHIN 48 INCHES (1220 mm) OF THE TELEPHONE TO FACILITATE THE USE OF A TTY.

GUESTROOMS w/ MOBILITY FEATURES

REFER TO SHEET G-010 FOR ACCESSIBILITY ACCESSORIES AND MOUNTING HEIGHTS
TOTAL NUMBER OF GUESTROOMS AND SUITES: 69
REQUIRED MOBILITY ACCESSIBLE ROOMS (PER TABLE 224.2, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN):

W/o ROLL-IN SHOWER:	3
W/ ROLL-IN SHOWER:	1
TOTAL:	**4**

TYPICAL ACCESSORIES AT TUB ROOMS			
ITEM	**MANUFACTURER**	**MODEL**	**FINISH**
GRAB BARS AT TOILET	BOBRICK	B-5806 (1@42" + 1@36") - MOUNTED @ 36" A.F.F. - SEE PLAN	TYPE 304 SATIN S.S.
GRAB BARS AT TUB	BOBRICK	B-5806 (3@24" + 1@12") - MOUNTED @ 10" ABOVE TUB RIM. & 36" A.F.F. -B-5806 (1@24") MOUNTED @ 9" ABOVE TUB RIM - SEE PLAN	TYPE 304 SATIN S.S.
REMOVABLE SEAT FOR TUB	ACCESS-ABLE DESIGNS, INC	SH-426	WHITE

TYPICAL ACCESSORIES AT ROLL-IN SHOWER ROOMS			
ITEM	**MANUFACTURER**	**MODEL**	**FINISH**
GRAB BARS AT TOILET	BOBRICK	B-5806 (1@42" + 1@36") - MOUNTED @ 36" A.F.F.	TYPE 304 SATIN S.S.
GRAB BARS AT SHOWER	BOBRICK	B-5806 (1@24" + 1@36") - MOUNTED @ 36" A.F.F.	TYPE 304 SATIN S.S.
FOLDING SEAT FOR SHOWER	BOBRICK	B-5193 (SEAT HEIGHT @ 17" A.F.F.)	IVORY

ACCESSIBLE UNIT DISPERSION

MOBILITY ACCESSIBLE UNITS	
UNIT NUMBER	**UNIT TYPE**
117	2-BAY
221	K-GR
316	QQ-GR
302	JR

COMMUNICATION ACCESSIBLE UNITS	
UNIT NUMBER	**UNIT TYPE**
117	2-BAY
121	KK-GR
216	DELUXE K
225	QQ-GR
308	QQ-GR
312	DELUXE JR SUITE
315	JUNIOR SUITE

GUESTROOM NOTES

1. SEE SHEET A-602 FOR TYPICAL PARTITION TYPES.
L & R AFTER UNIT TYPE MARK DESIGNATES L & R HAND ORIENTATIONS.

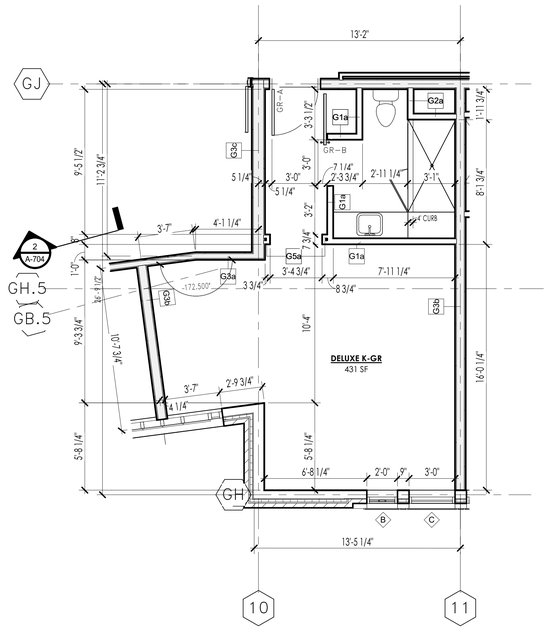
2. ALL SLOPES TO DRAIN SHALL BE 1/8":1'-0" MIN.

3. ALL WALL BEHIND TILE TO HAVE CEMENTITIOUS BACKER BOARD.

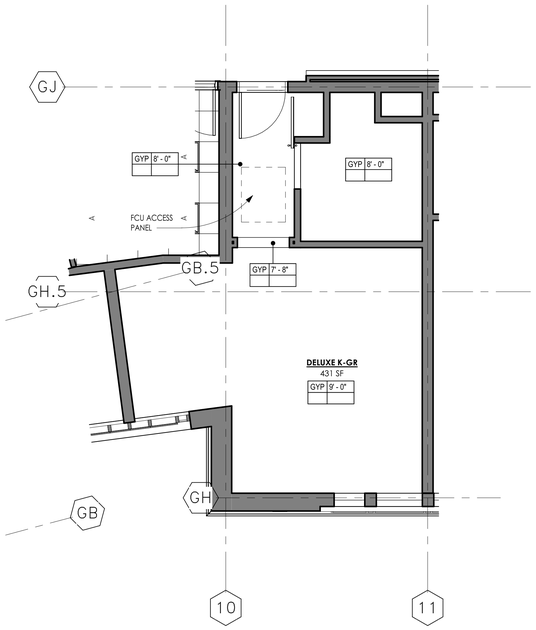
4. UNDERNEATH ALL RIGID FLOORING (FOR EXAMPLE, TILE, HARDWOOD, VCT, OR LVT), PROVIDE SOUND CONTROL MEMBRANE - PROFLEX 90 MSC.

5. ALL DEMISING WALLS BETWEEN ADJACENT GUESTROOMS, AND BETWEEN GUESTROOM AND PUBLIC CORRIDORS SHALL HAVE A SOUND TRANSMISSION CLASS (STC) RATING OF NOT LESS THAN 55 (45 IF TESETD IN FIELD) WHEN TESTED IN ACCORDANCE WITH ASTM E 90, PER IBC 1207.2. ADDITIONALLY, PER OMNI STANDARDS, GUESTROOM WALL ASSEMBLIES ADJACENT TO MECHANICAL AREAS OR ELEVATOR SHAFTS SHALL HAVE A STC OF NOT LESS THAT 85.

6. FLOOR CEILING ASSEMBLIES AT ALL GUESTROOMS SHALL HAVE AN IMPACT INSULATION CLASS (IIC) RATING OF NOT LESS THAT 50 (45 IF TESTED IN FIELD) WHEN TESTED IN ACCORDANCE WITH ASTM E 492, PER IBC 1207.3



1 A-451 DELUXE K GR - Enlarged Plan
SCALE: 1/4" = 1'-0"



2 A-451 DELUXE K GR - Enlarged RCP
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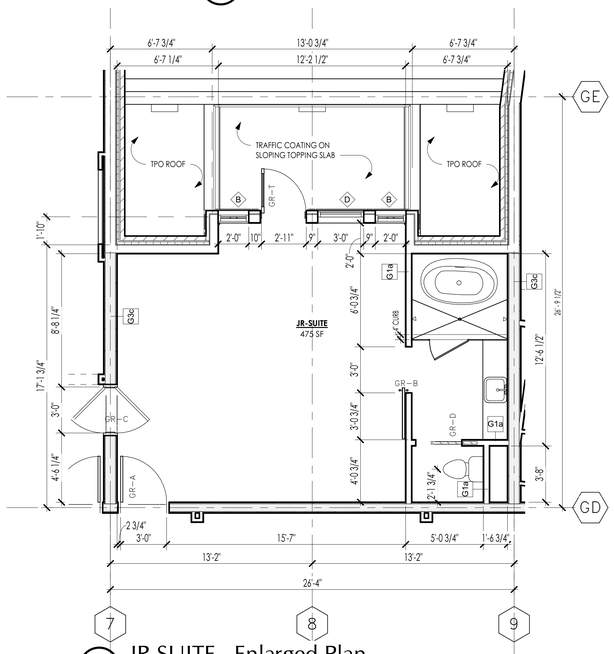
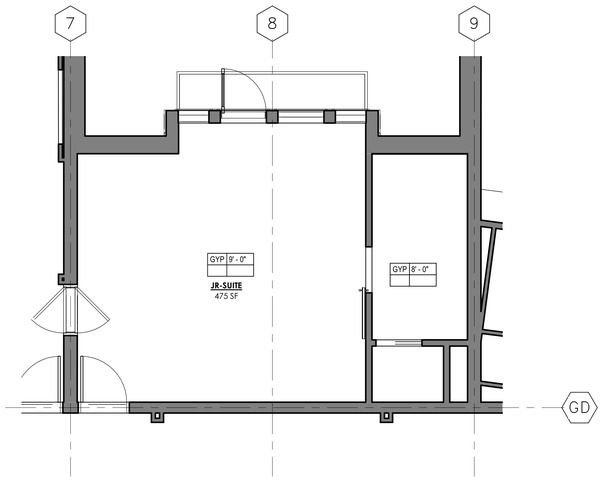


3 A-451 JR SUITE - Enlarged Plan
SCALE: 1/4" = 1'-0"



4 A-451 JR SUITE - Enlarged RCP
SCALE: 1/4" = 1'-0"

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
GUESTROOM PLANS

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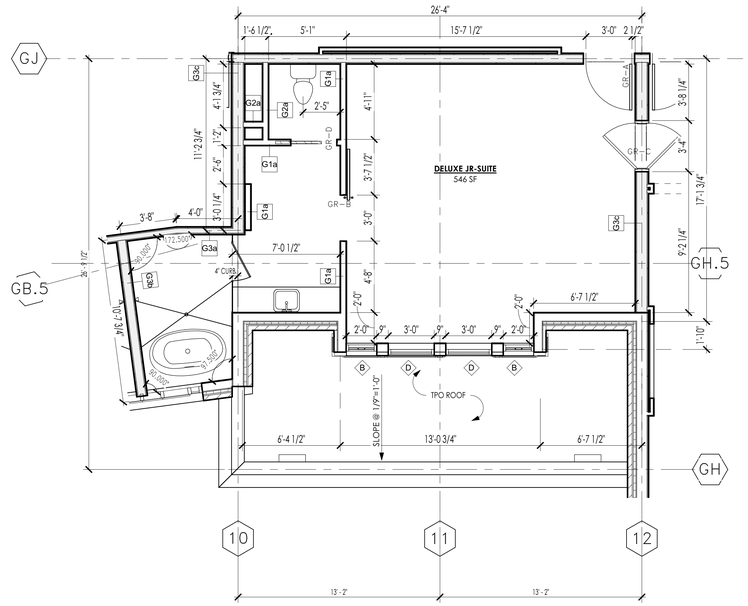
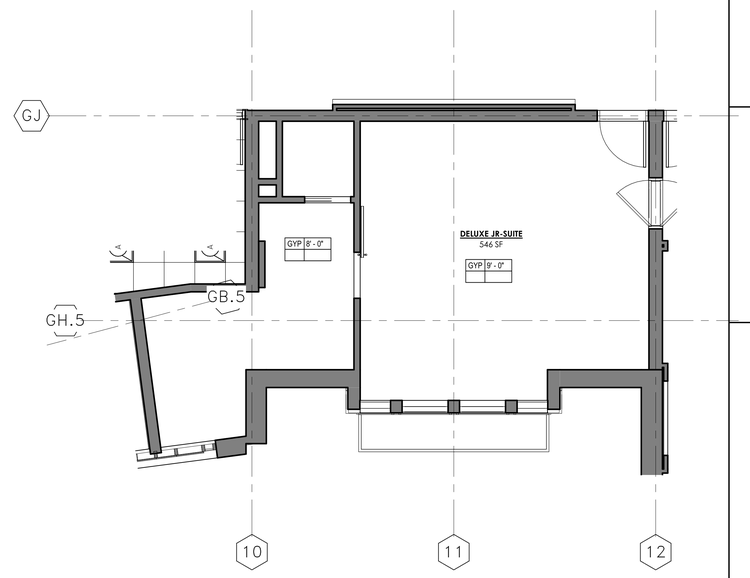


1 A-452 DELUXE JR SUITE - Enlarged Plan
SCALE: 1/4" = 1'-0"



2 A-452 DELUXE JR SUITE - Enlarged RCP
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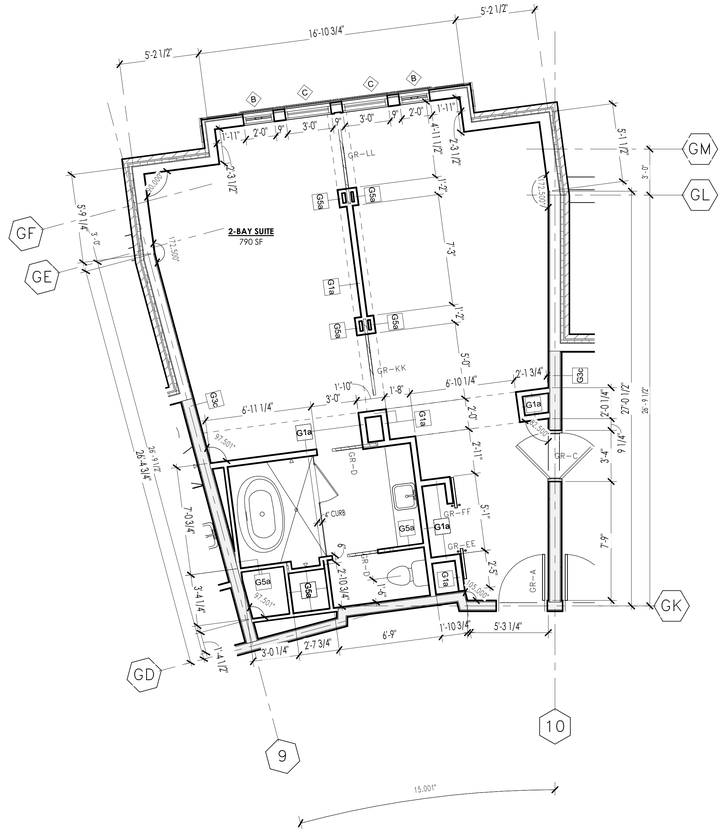

3 A-452 2-BAY SUITE - Enlarged Plan
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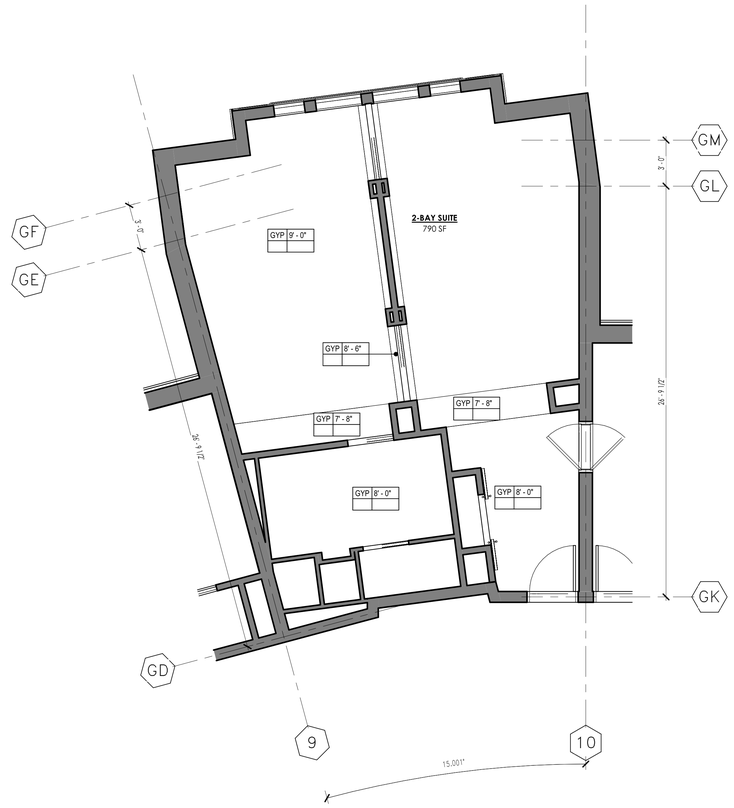

4 A-452 2-BAY SUITE - Enlarged RCP
SCALE: 1/4" = 1'-0"

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GUESTROOM PLANS

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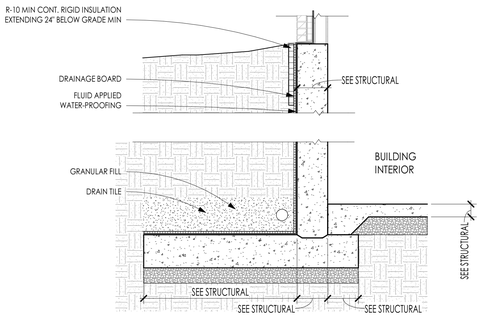
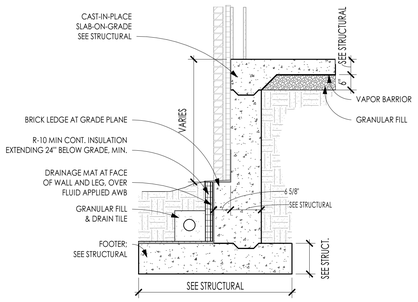


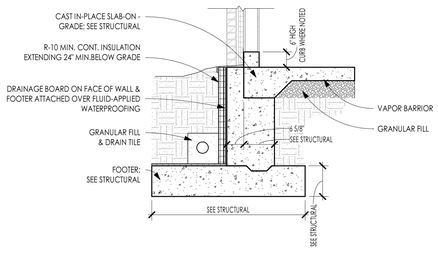
1 A-500 TYP. FULL-FLOOR HEIGHT RETAINING WALL

SCALE: 1/2" = 1'-0"



2 A-500 TYP. BRICK CLAD RETAINING WALL OUT-OF-GRADE CONDITION

SCALE: 1/2" = 1'-0"



3 A-500 TYP. AT-GRADE EDGE OF SLAB

SCALE: 1/2" = 1'-0"

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B.	02/28/2020	GMP Package

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Sheet Title
WALL SECTIONS

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Sheet Number

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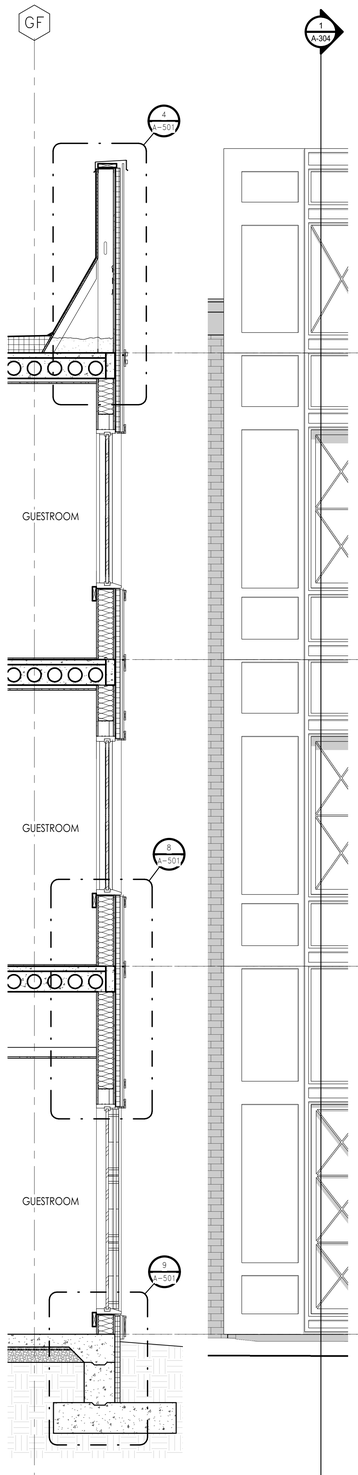
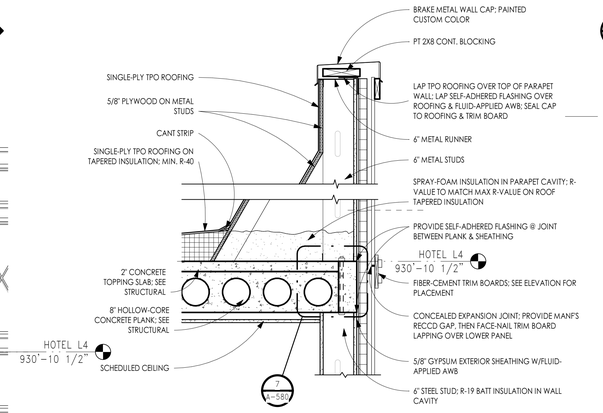
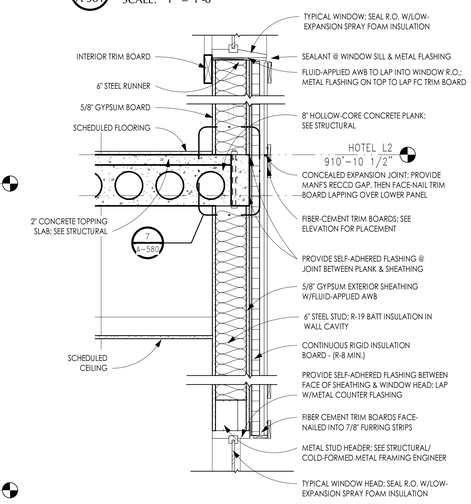


HOTEL - WALL SECTION 1.1
1 A-501 SCALE: 1/2" = 1'-0"

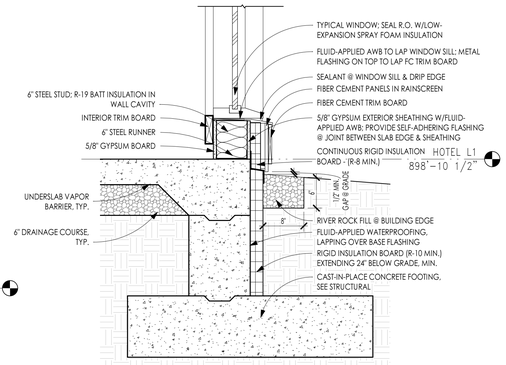
HOTEL - ELEVATION 1.1
5 A-501 SCALE: 1/2" = 1'-0"



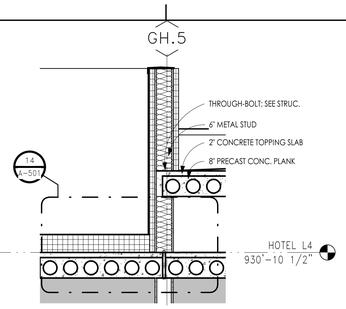
HOTEL - WALL SECTION DETAIL 1.1.1
4 A-501 SCALE: 1" = 1'-0"



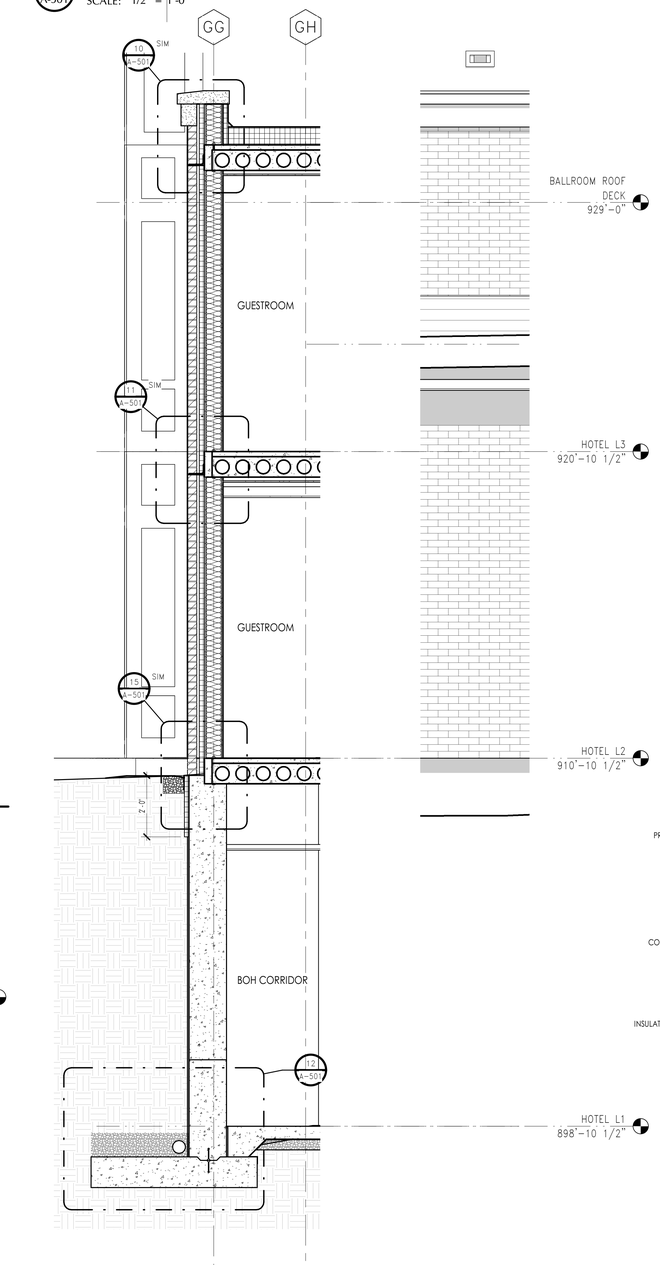
HOTEL - WALL SECTION DETAIL 1.1.2
8 A-501 SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL 1.1.3
9 A-501 SCALE: 1" = 1'-0"

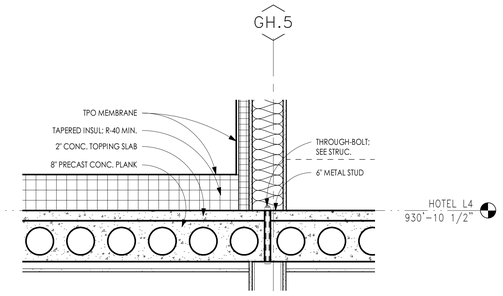


HOTEL - WALL SECTION 2.2
3 A-501 SCALE: 1/2" = 1'-0"

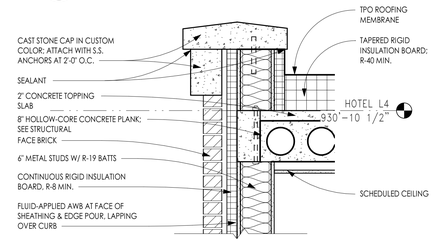


HOTEL - WALL SECTION 2.1
2 A-501 SCALE: 1/2" = 1'-0"

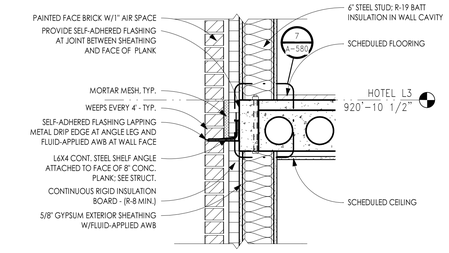
HOTEL - ELEVATION 2.1
6 A-501 SCALE: 1/2" = 1'-0"



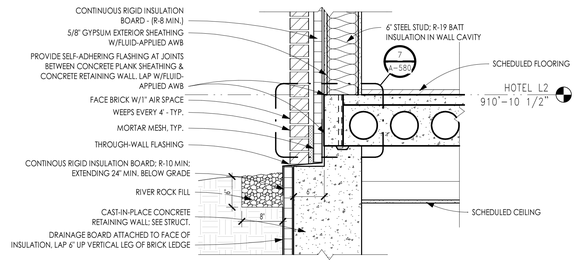
HOTEL - WALL SECTION DETAIL 2.2.2
14 A-501 SCALE: 1" = 1'-0"



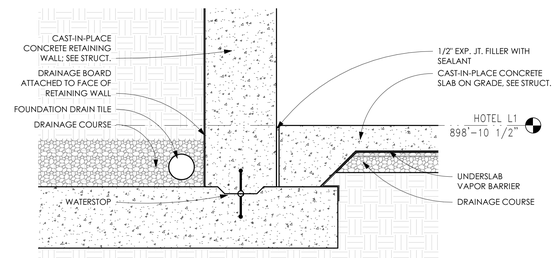
HOTEL - WALL SECTION DETAIL 2.1.1
10 A-501 SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL 2.1.2
11 A-501 SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL 2.1.3
15 A-501 SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL 2.1.4
12 A-501 SCALE: 1" = 1'-0"

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No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title:
WALL SECTIONS

A-501
Sheet Number

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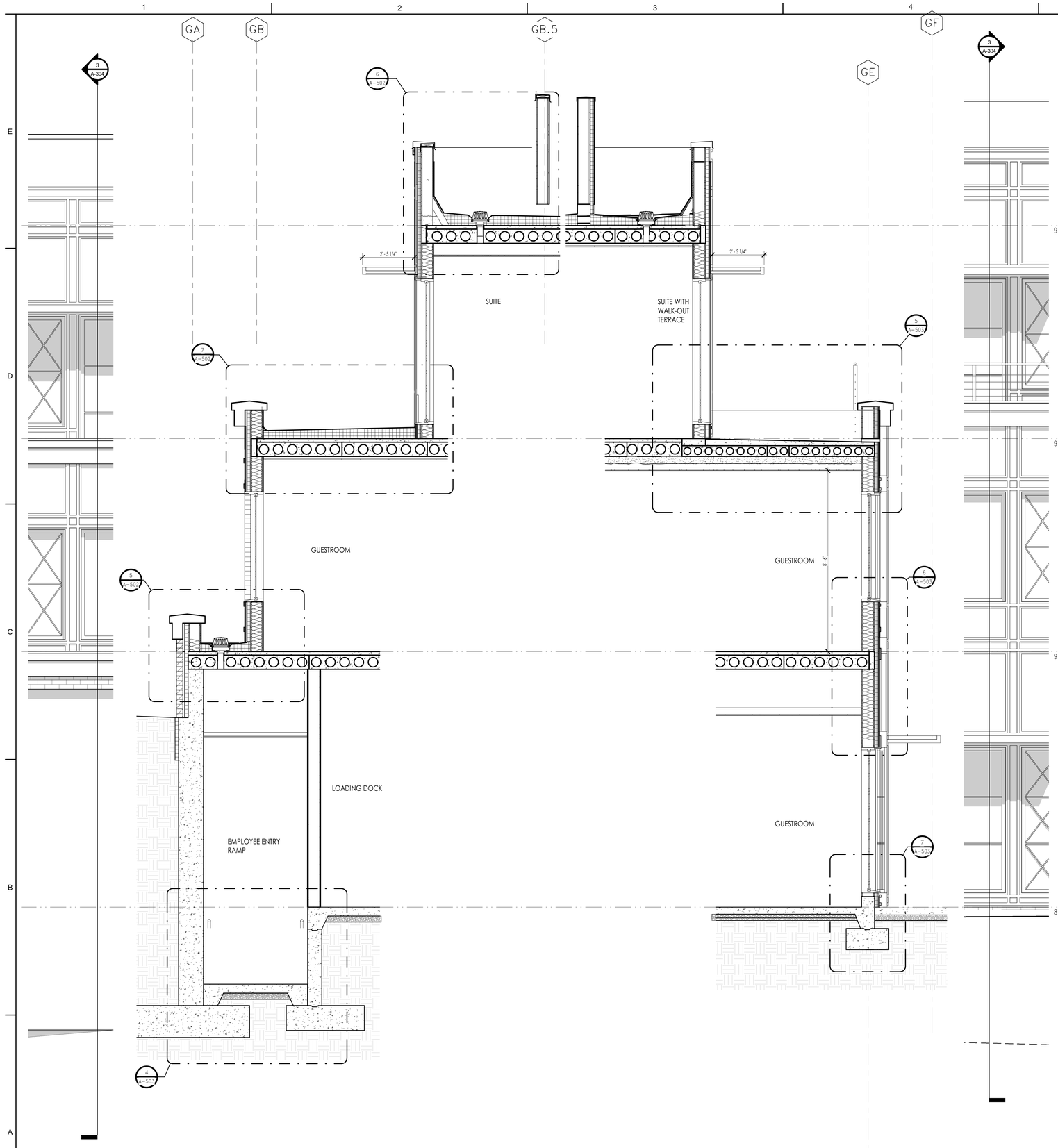
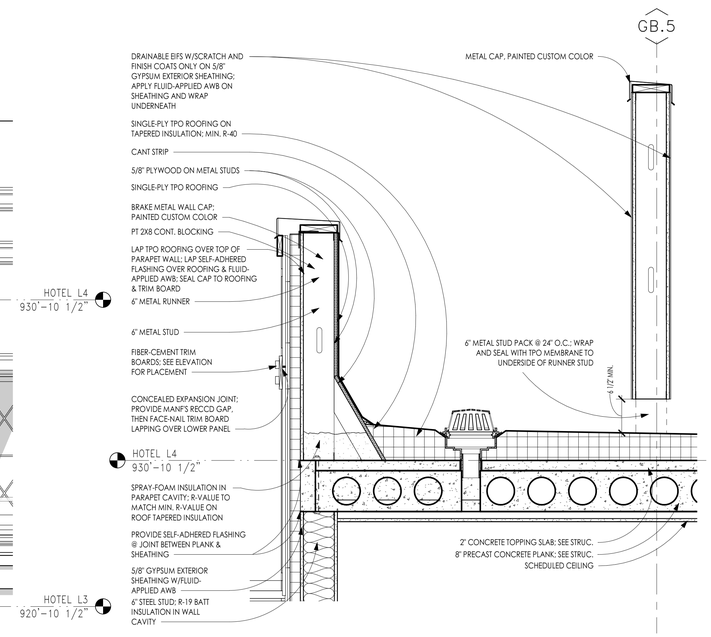


HOTEL - ELEVATION 3.1
3 A-502 SCALE: 1/2" = 1'-0"

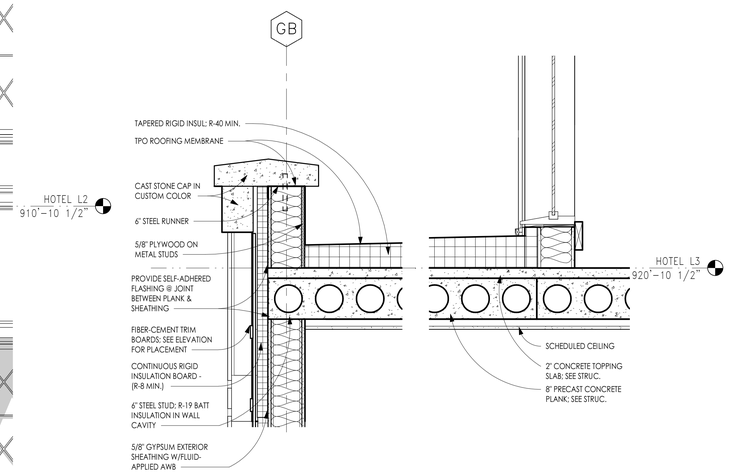
HOTEL - WALL SECTION 3.1
1 A-502 SCALE: 1/2" = 1'-0"

HOTEL - WALL SECTION 3.2
2 A-502 SCALE: 1/2" = 1'-0"

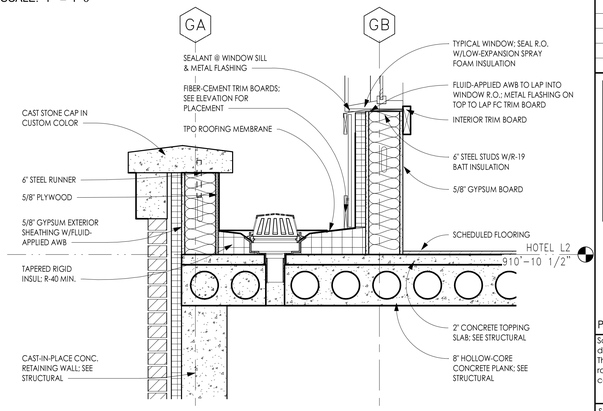
HOTEL - ELEVATION 3.2
4 A-502 SCALE: 1/2" = 1'-0"



HOTEL - WALL SECTION DETAIL 3.1.1
6 A-502 SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL 3.1.2
7 A-502 SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL 3.1.3
5 A-502 SCALE: 1" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
WALL SECTIONS

A-502
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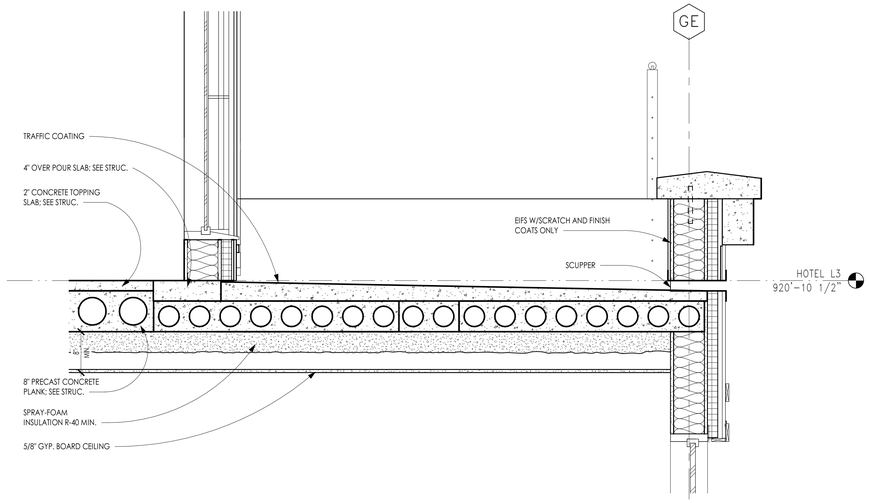
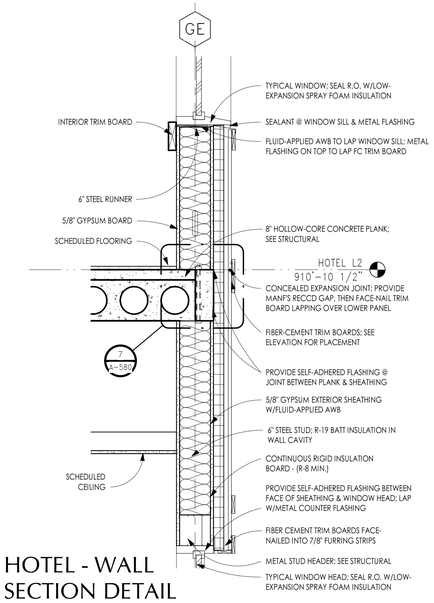


HOTEL - WALL SECTION DETAIL

5 / A-503 3.2.1

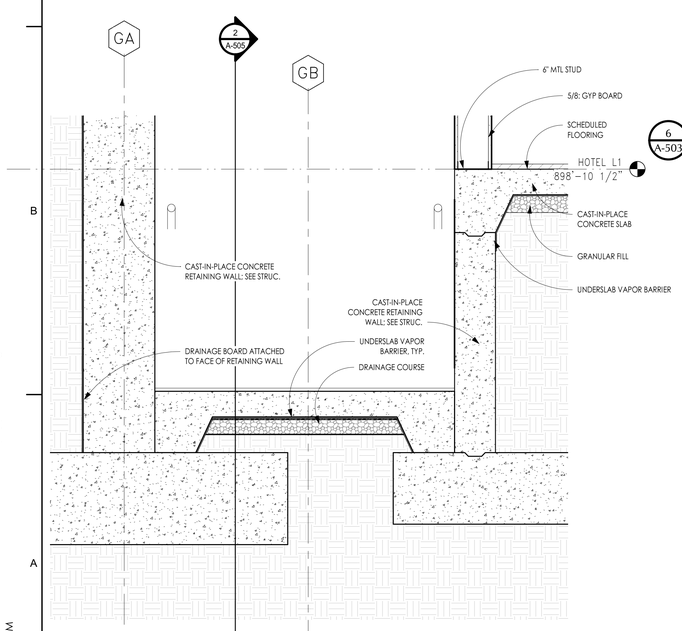
SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL

6 / A-503 3.2.2

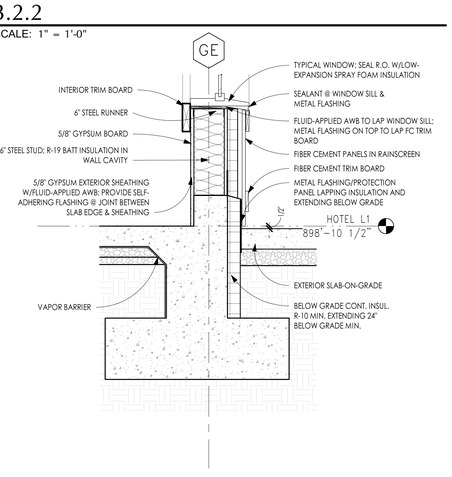
SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL

4 / A-503 3.1.4

SCALE: 1" = 1'-0"



HOTEL - WALL SECTION DETAIL

7 / A-503 3.2.3

SCALE: 1" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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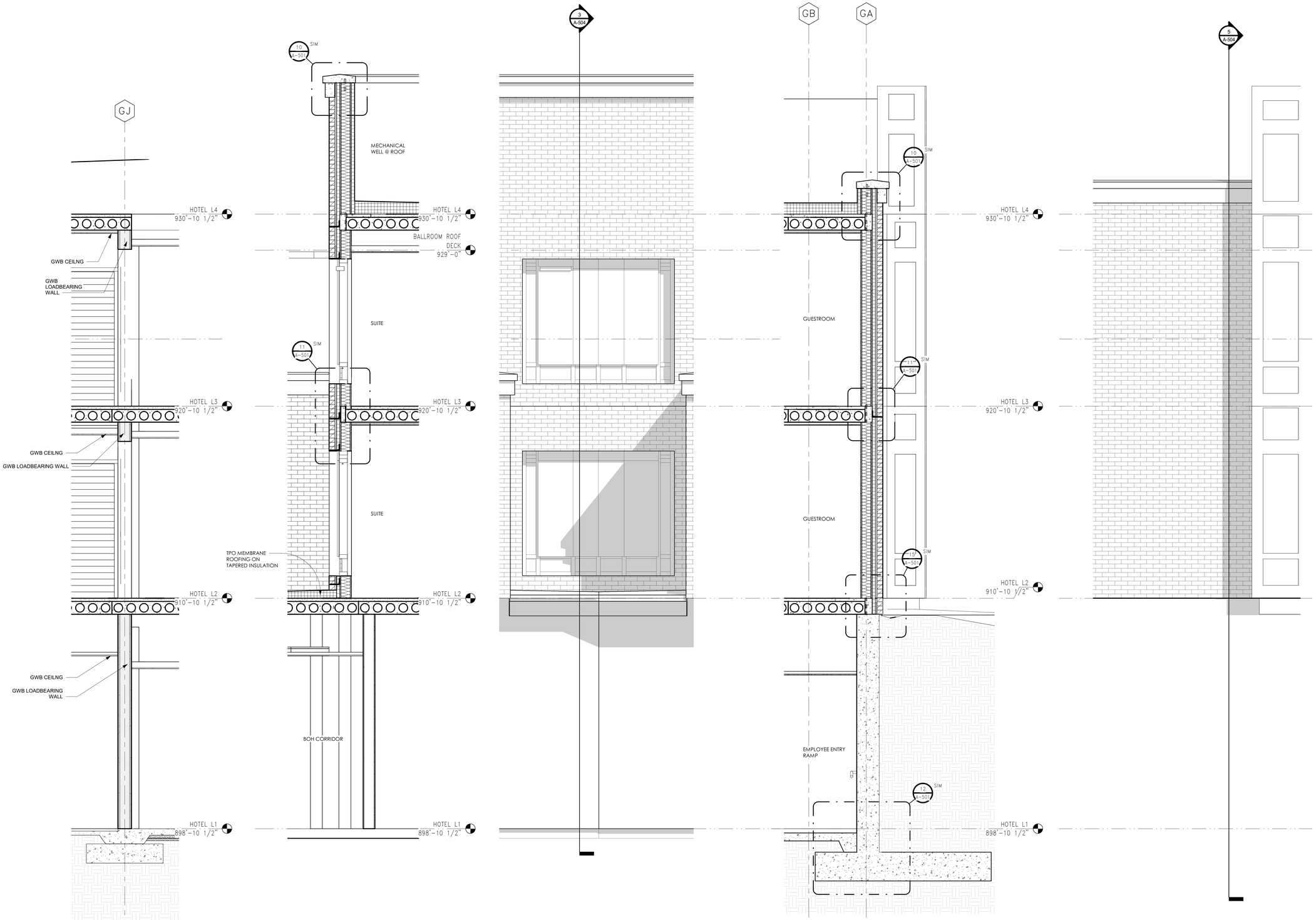

1 A-504 HOTEL - WALL SECTION 2.3
SCALE: 1/2" = 1'-0"

3 A-504 HOTEL - WALL SECTION 2.4
SCALE: 1/2" = 1'-0"

4 A-504 HOTEL - ELEVATION 2.4
SCALE: 1/2" = 1'-0"

5 A-504 HOTEL - WALL SECTION BOH ENTRY
SCALE: 1/2" = 1'-0"

6 A-504 HOTEL - ELEVATION BOH ENTRY
SCALE: 1/2" = 1'-0"

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HOTEL HARTNESS

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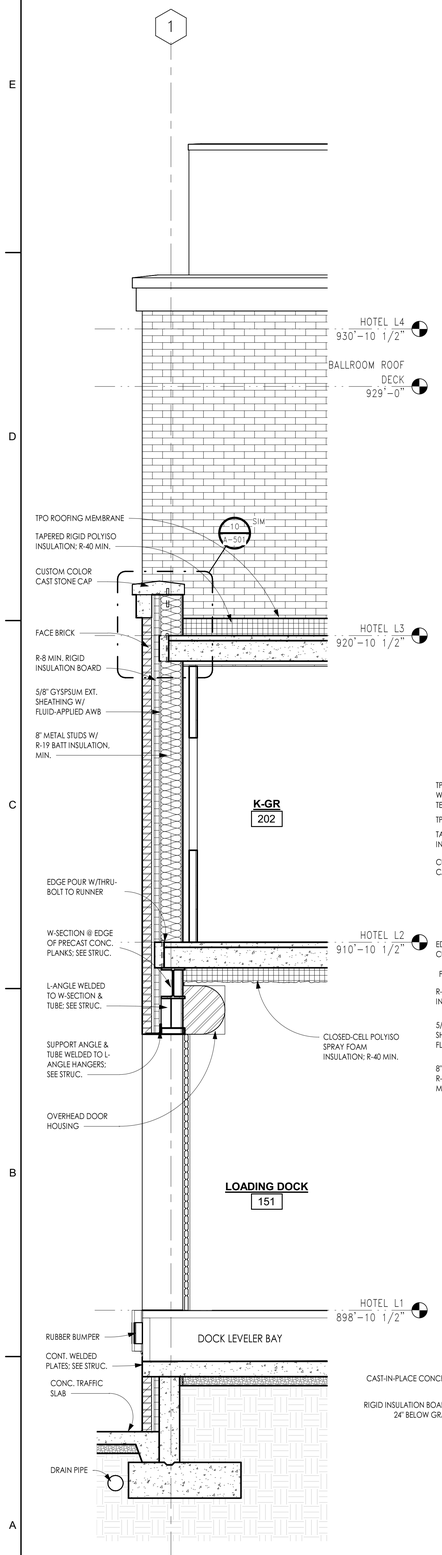
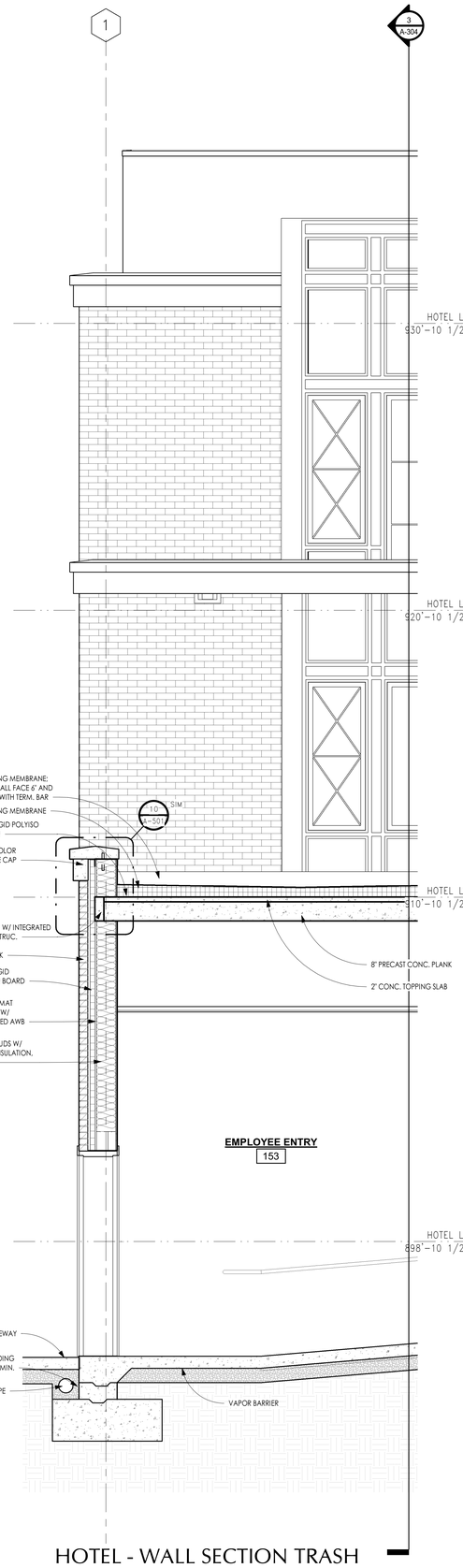
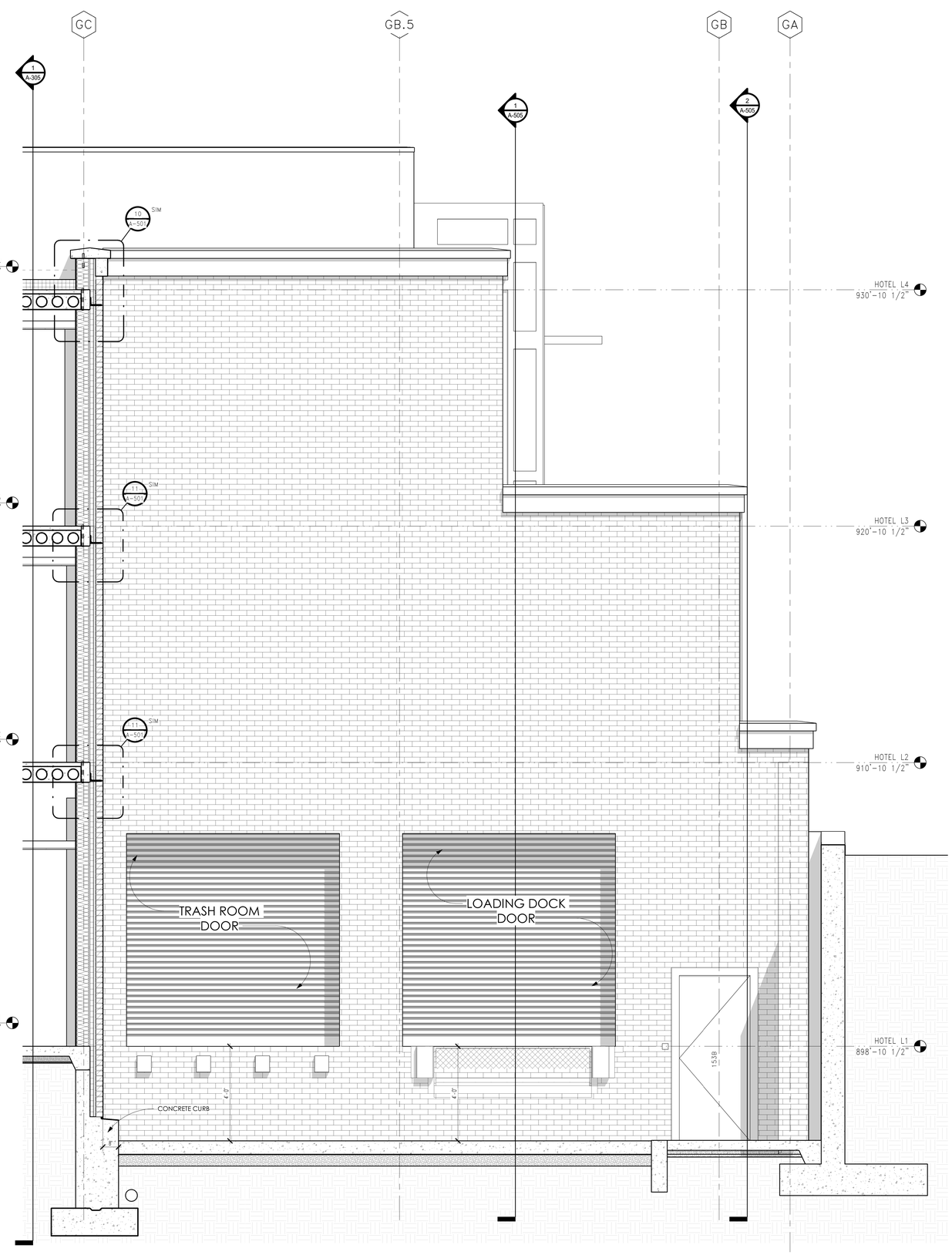


1 A-505 HOTEL - WALL SECTION LOADING DOCK
SCALE: 1/2" = 1'-0"



2 A-505 HOTEL - WALL SECTION TRASH ROOM
SCALE: 1/2" = 1'-0"



3 A-505 LOADING DOCK ELEVATION
SCALE: 1/2" = 1'-0"

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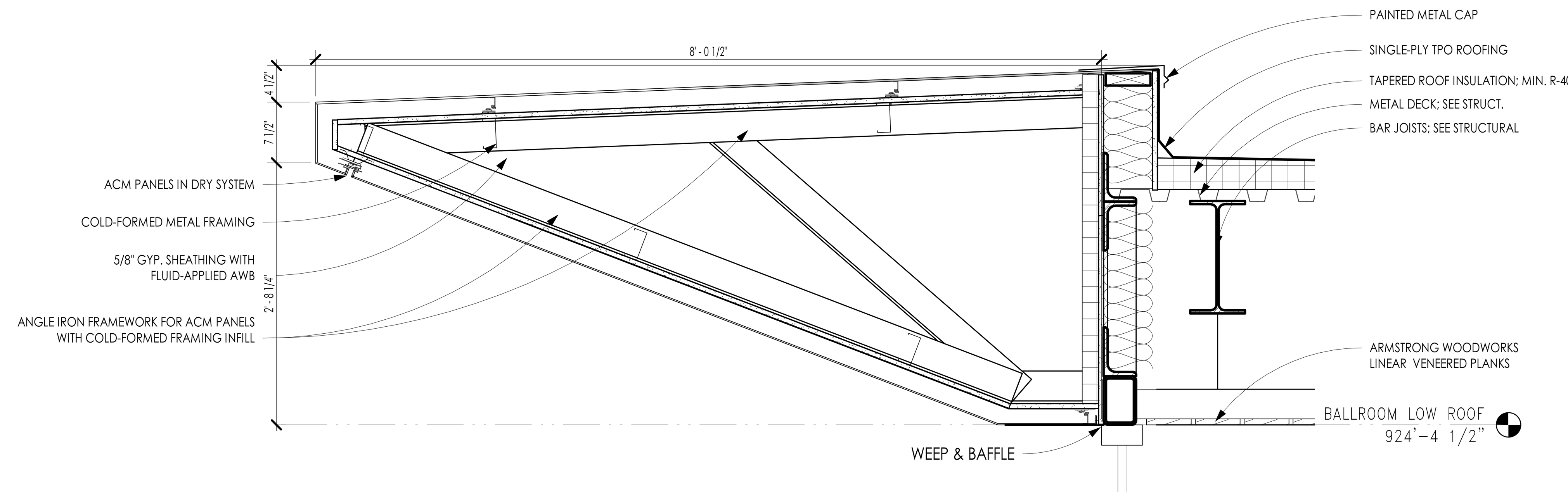
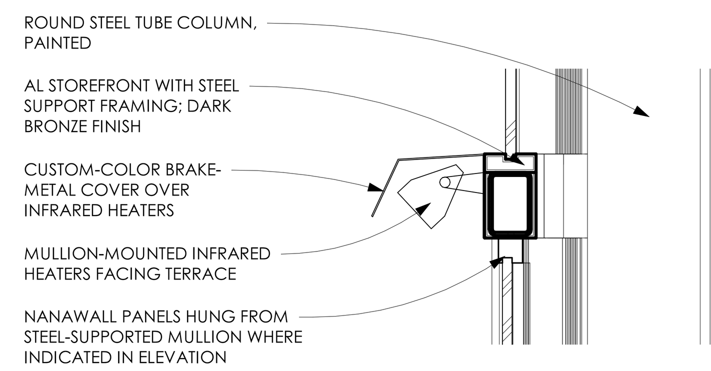
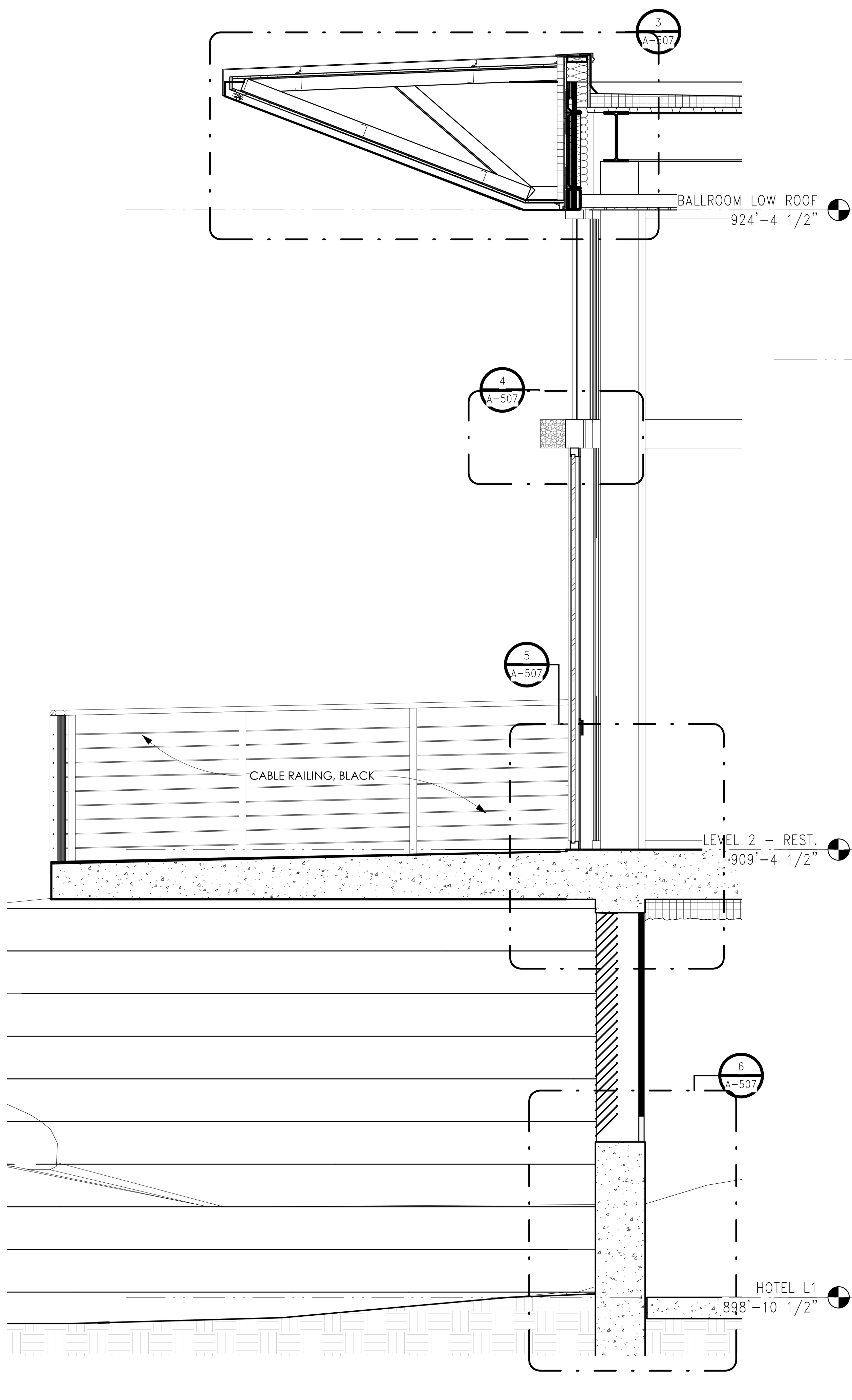


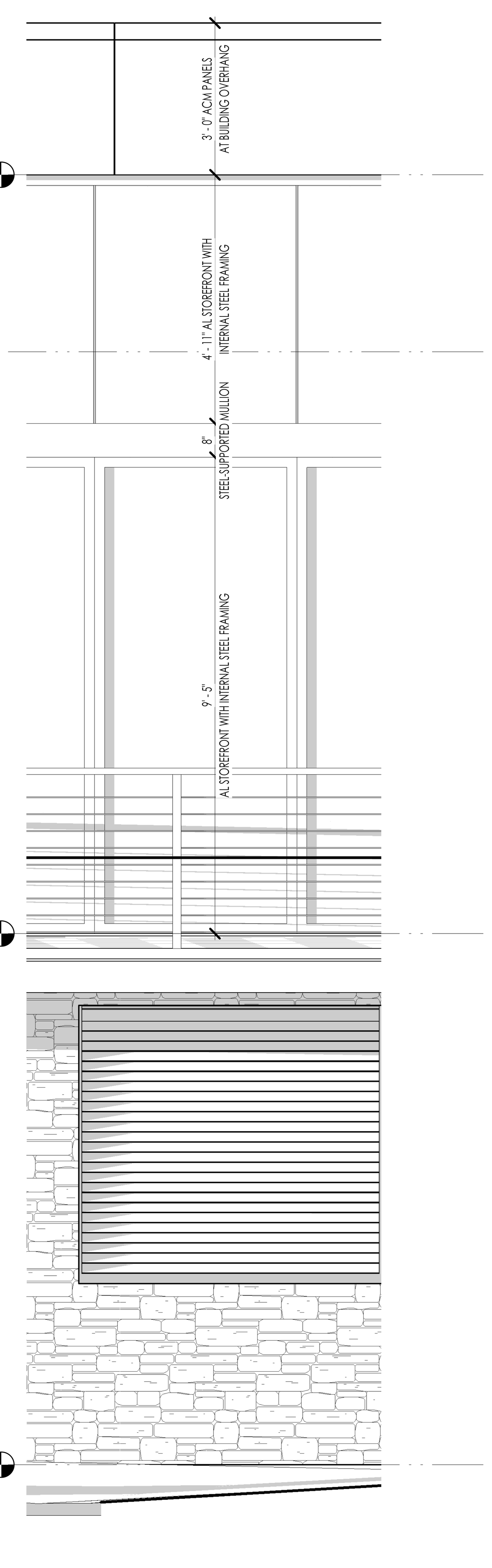
3 A-507 RESTAURANT - WALL SECTION DETAIL 1
SCALE: 1" = 1'-0"



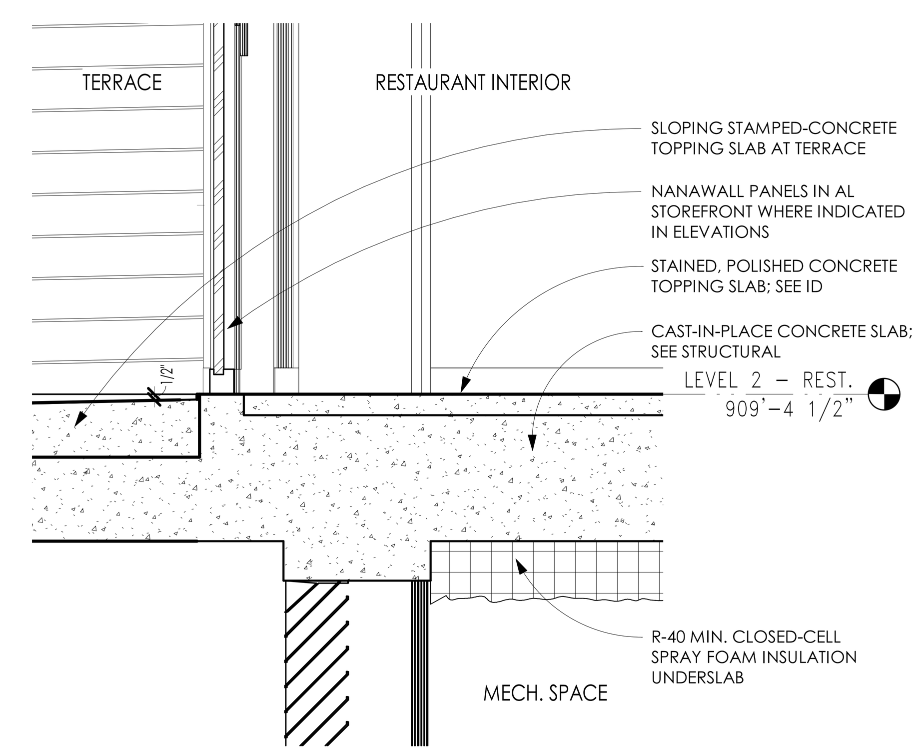
4 A-507 RESTAURANT - WALL SECTION DETAIL 2
SCALE: 1" = 1'-0"



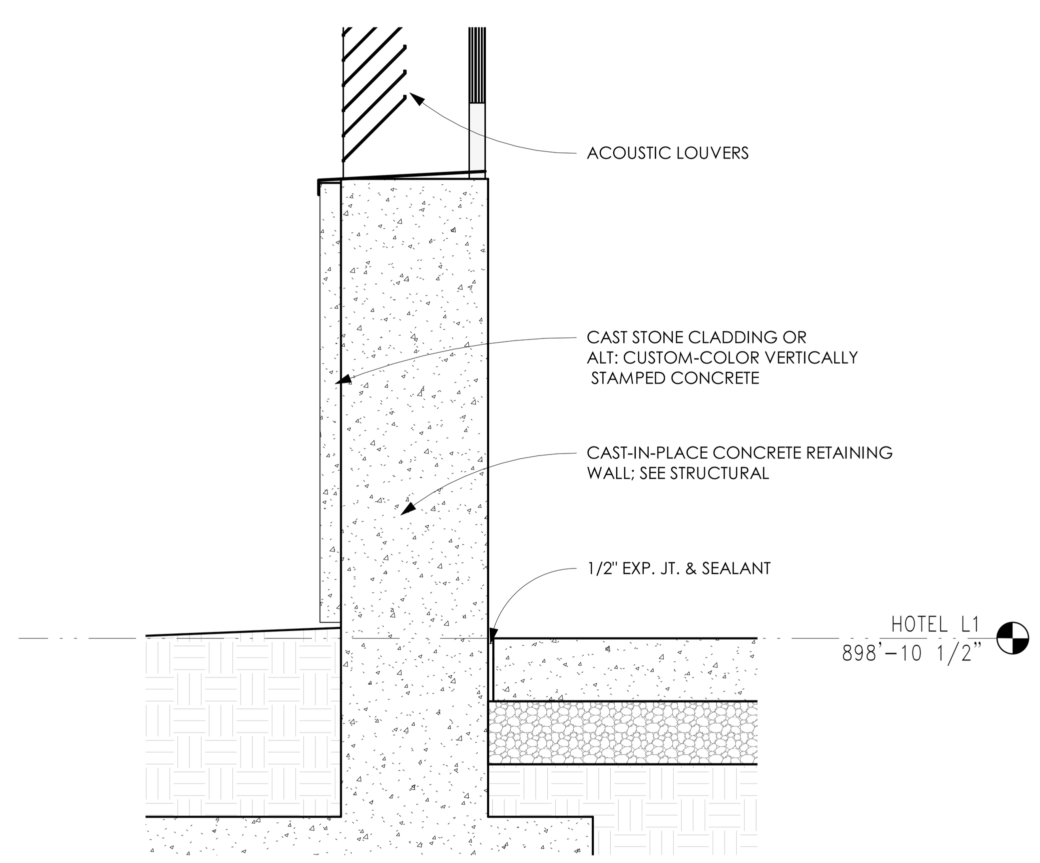
1 A-507 RESTAURANT - WALL SECTION
SCALE: 1/2" = 1'-0"



2 A-507 RESTAURANT - ELEVATION
SCALE: 1/2" = 1'-0"



5 A-507 RESTAURANT - WALL SECTION DETAIL 3
SCALE: 1" = 1'-0"



6 A-507 RESTAURANT - WALL SECTION DETAIL 4
SCALE: 1" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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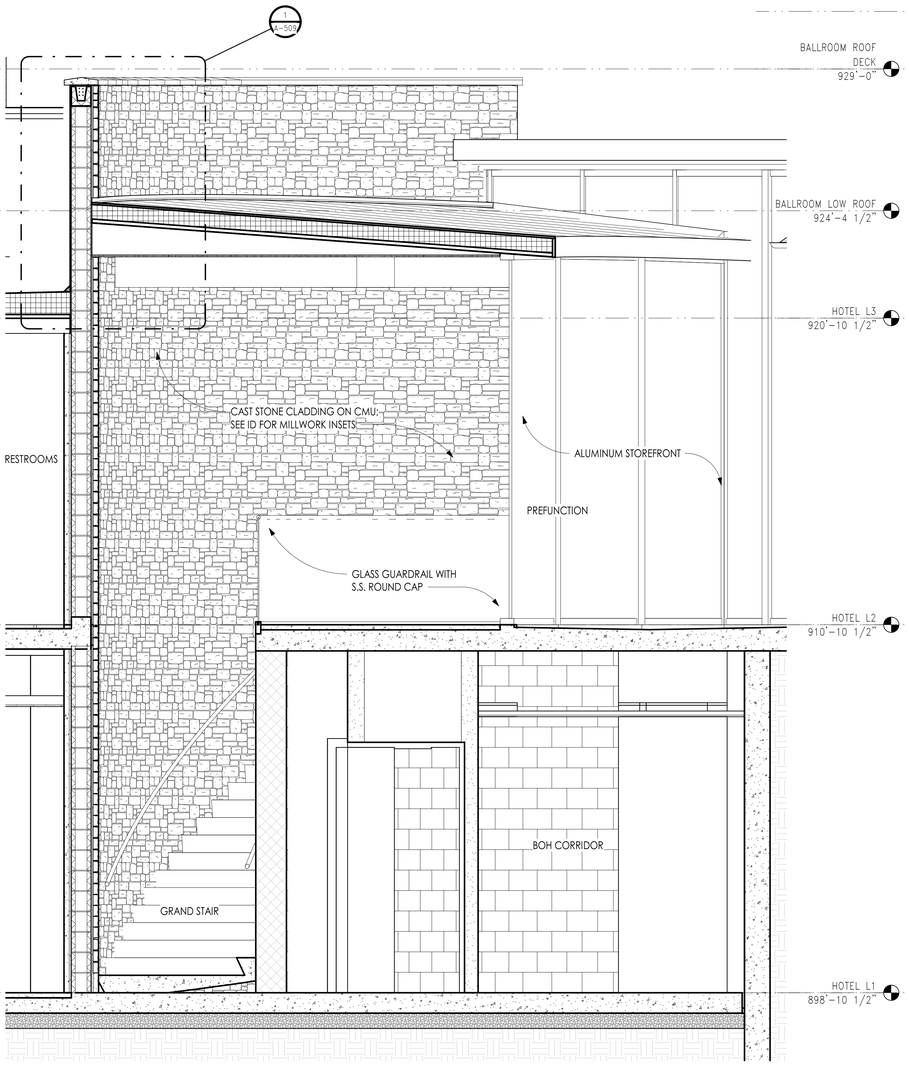
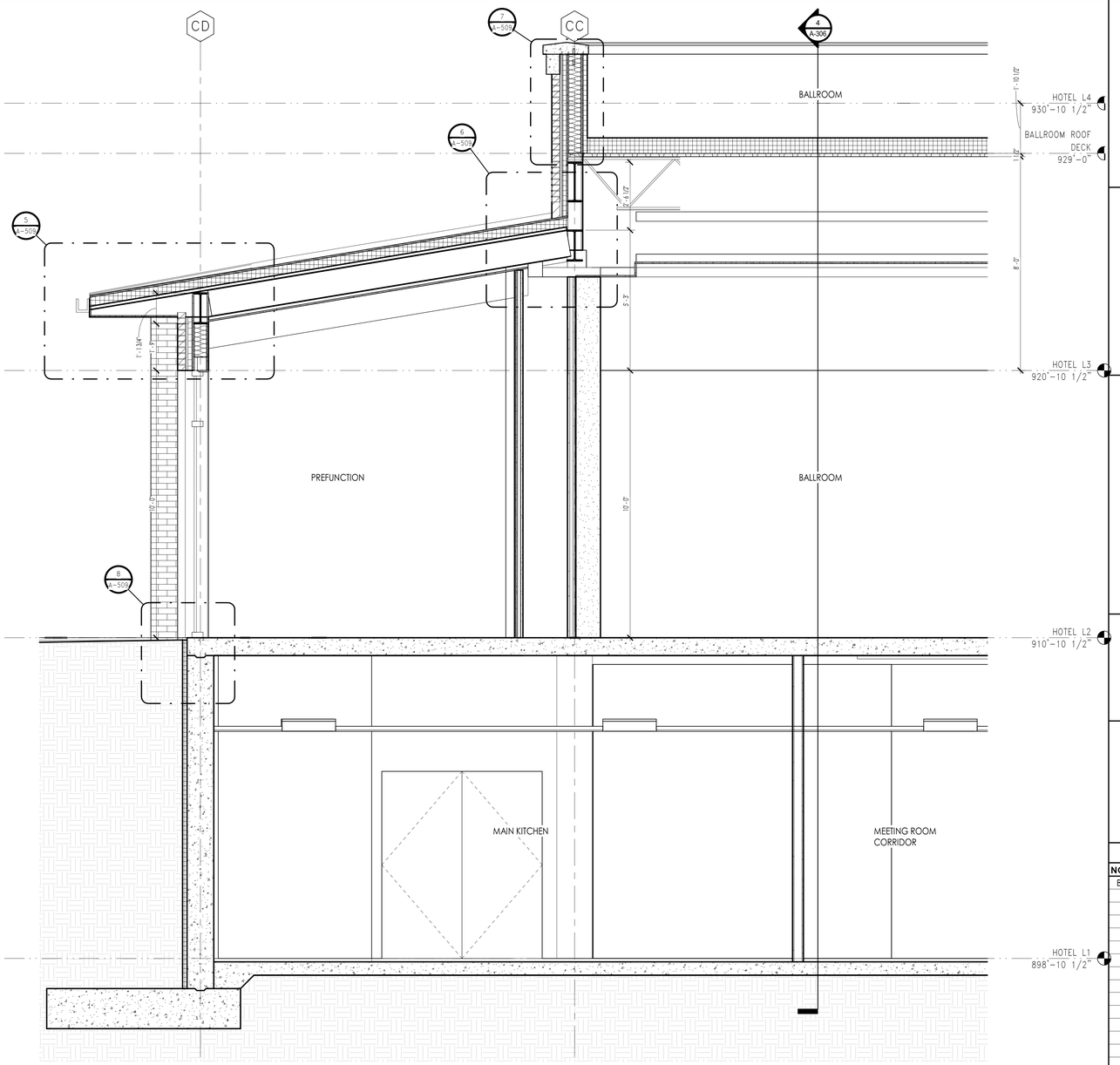


1 A-508 GRAND STAIR SECTION
SCALE: 1/2" = 1'-0"



2 A-508 PREFUNCTION SECTION
SCALE: 1/2" = 1'-0"

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STATE OF SOUTH CAROLINA
WILLIAM C. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
WALL SECTIONS

A-508
Sheet Number

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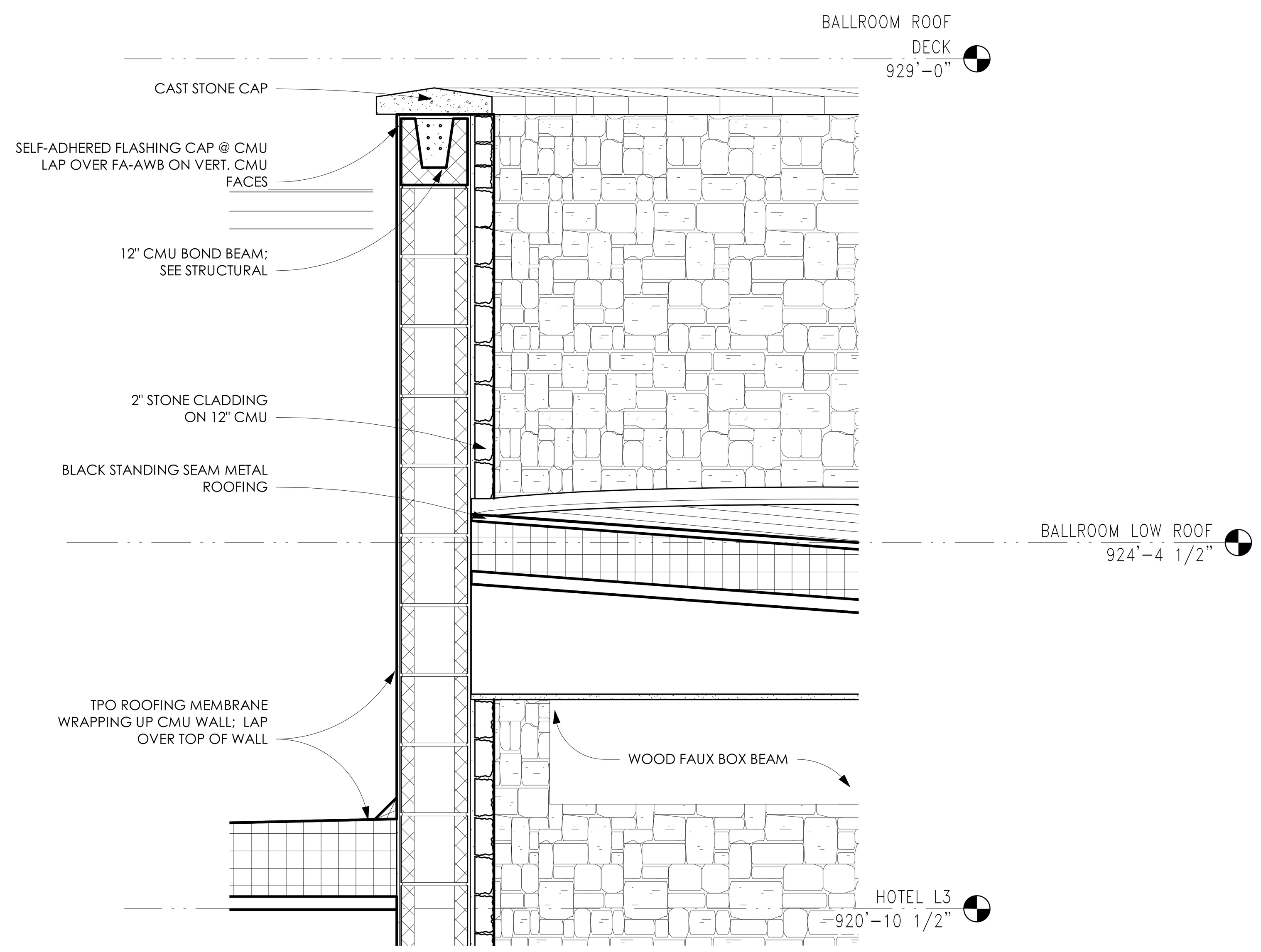
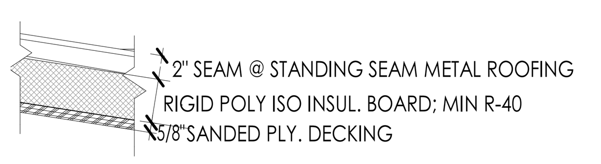
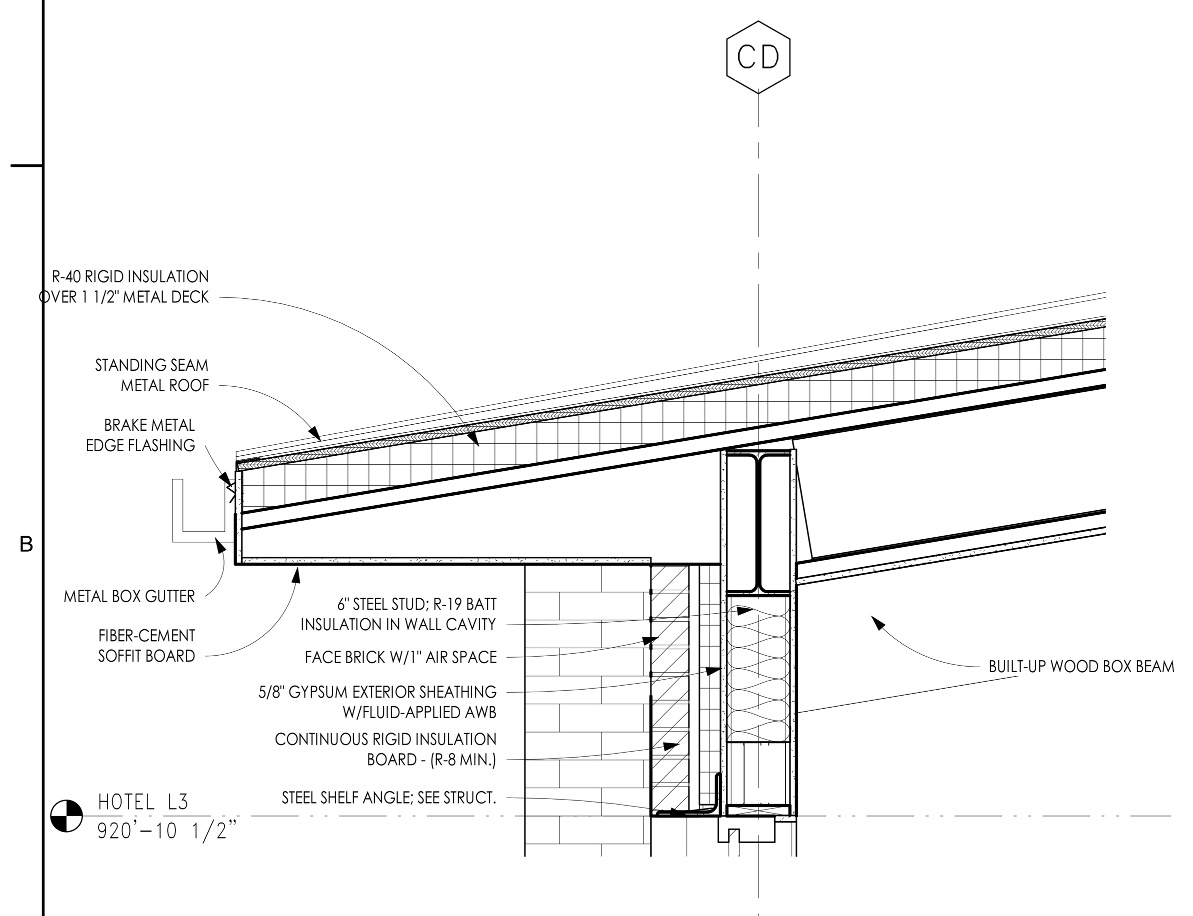


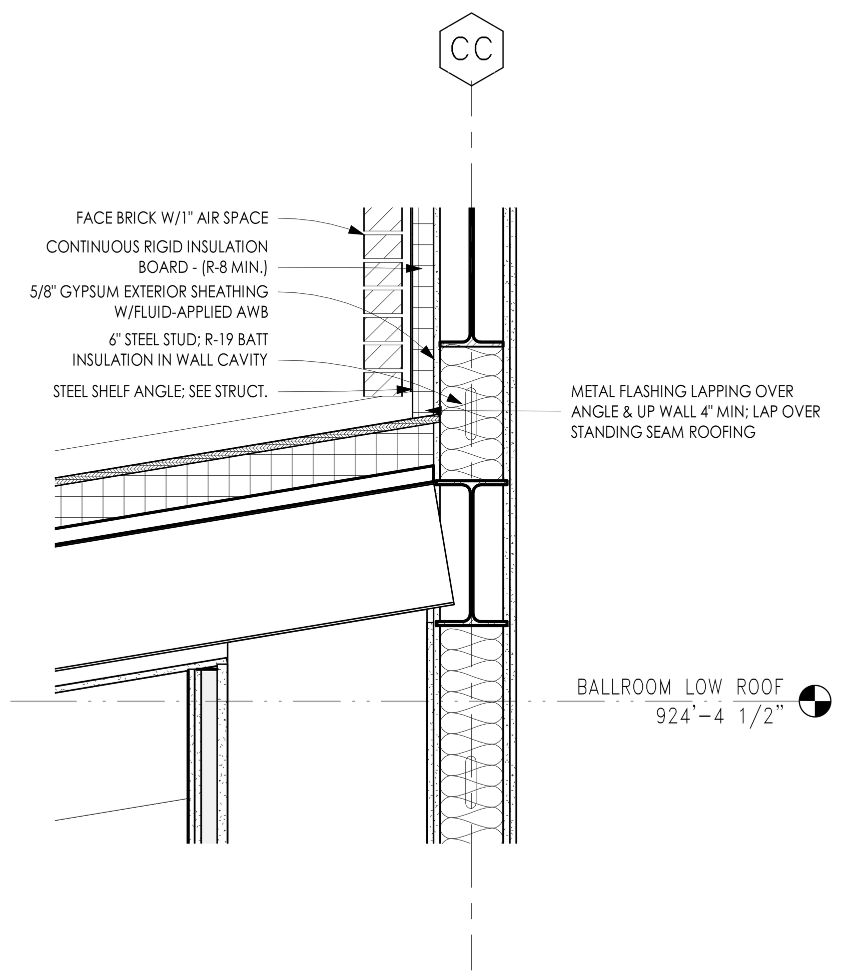
1 A-509 CONFERENCE CENTER CEILING DETAIL
SCALE: 1" = 1'-0"



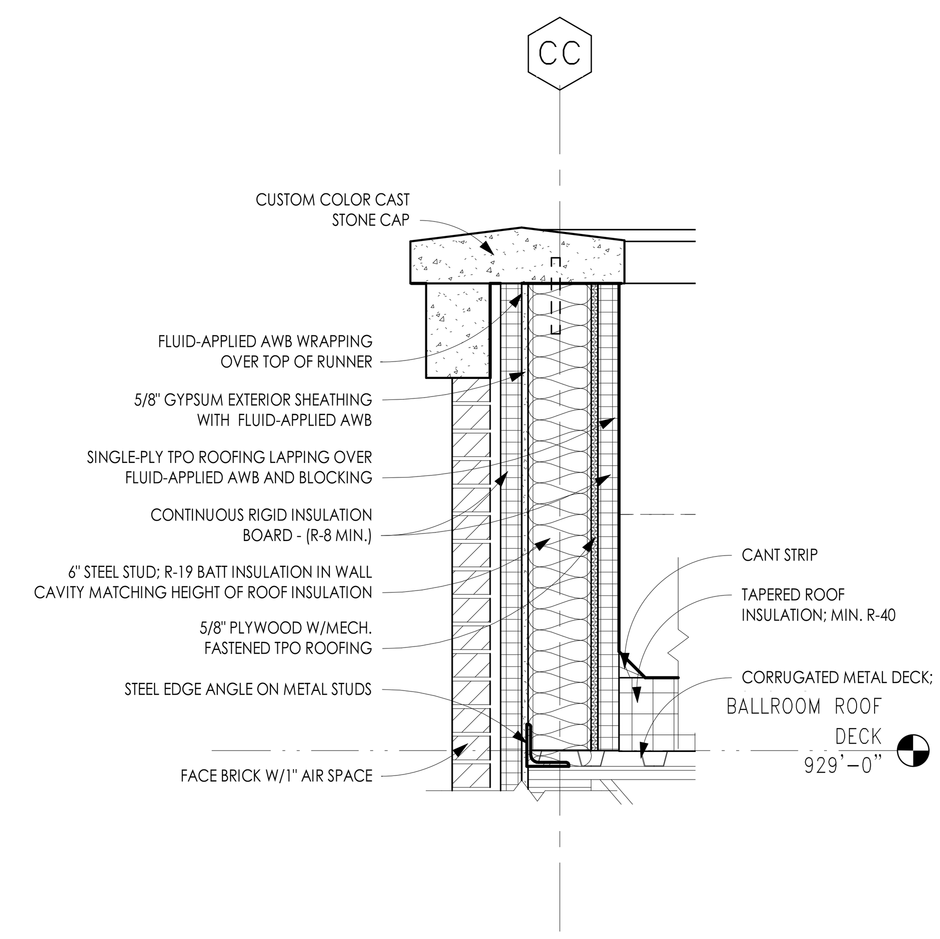
11 A-509 CONFERENCE CENTER ROOF - TYP. SECTION
SCALE: 1 1/2" = 1'-0"



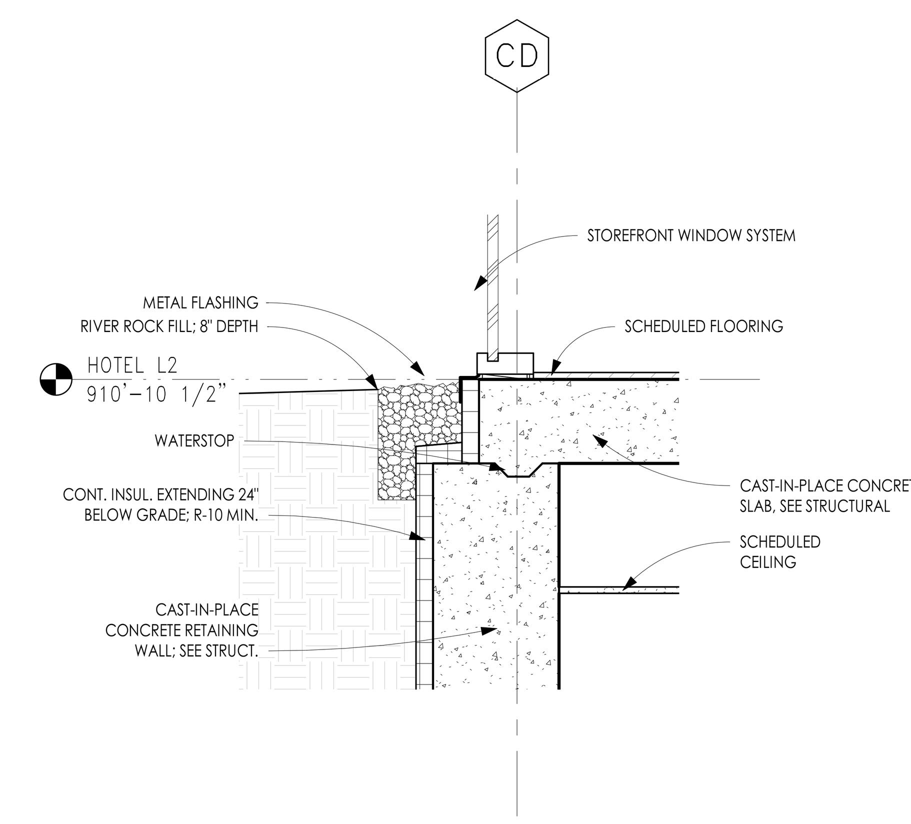
5 A-509 PREFUNCTION EXTERIOR WALL/ROOF DETAIL
SCALE: 1" = 1'-0"



6 A-509 PREFUNCTION HIGH EXT. WALL/ROOF DETAIL
SCALE: 1" = 1'-0"



7 A-509 BALLROOM HIGH PARAPET DETAIL
SCALE: 1" = 1'-0"



8 A-509 PREFUNCTION SILL/SLAB DETAIL
SCALE: 1" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
WALL SECTIONS

A-509
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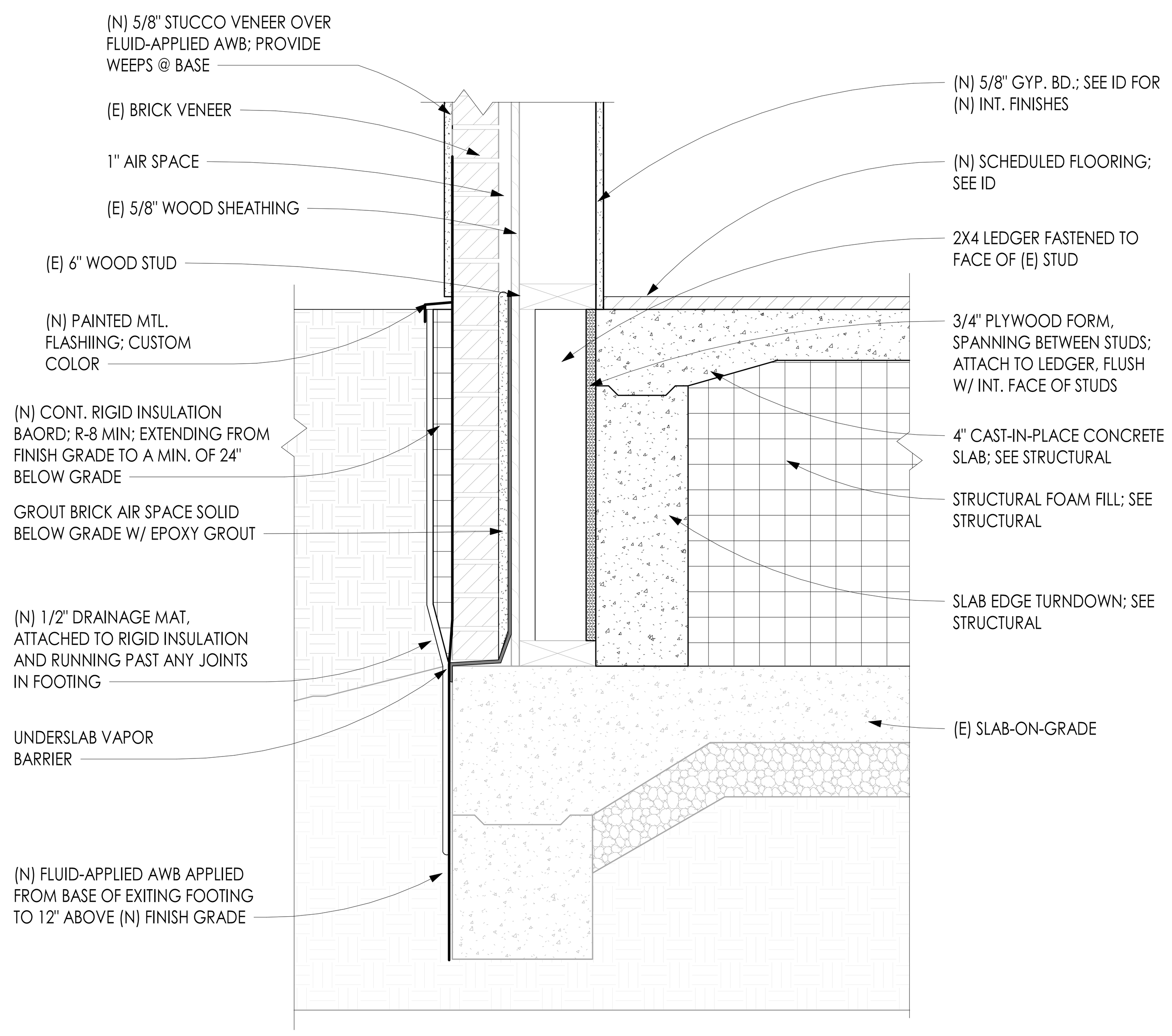

1 / A-550 DETAIL - MAIN HOUSE FOYER @ BASE
SCALE: 1 1/2" = 1'-0"

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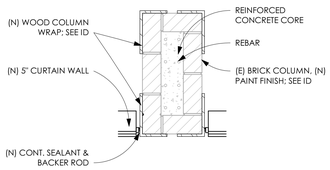
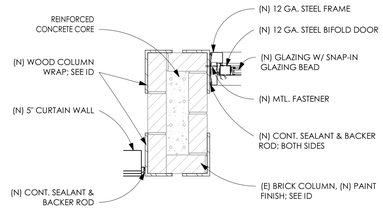
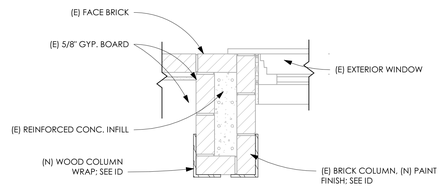


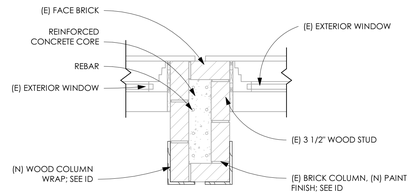
1 A-560 PLAN DETAIL - BRICK COLUMN @ GREAT ROOM
SCALE: 1" = 1'-0"



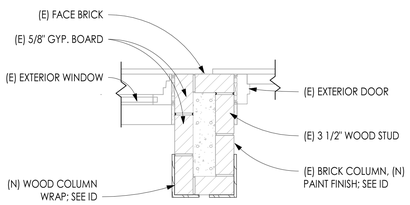
2 A-560 PLAN DETAIL - BRICK COLUMN @ GREAT ROOM
SCALE: 1" = 1'-0"



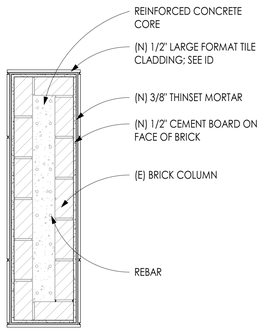
3 A-560 PLAN DETAIL - BRICK COLUMN @ GREAT ROOM
SCALE: 1" = 1'-0"



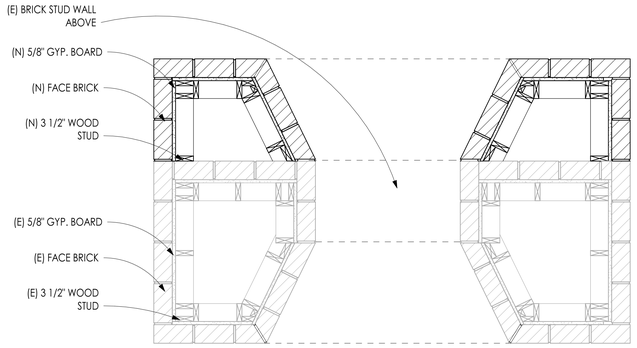
4 A-560 PLAN DETAIL - BRICK COLUMN @ GREAT ROOM
SCALE: 1" = 1'-0"



5 A-560 PLAN DETAIL - BRICK COLUMN @ GREAT ROOM
SCALE: 1" = 1'-0"



6 A-560 PLAN DETAIL - BRICK COLUMN @ FOYER
SCALE: 1" = 1'-0"



7 A-560 PLAN DETAIL - BRICK WALL @ DARK BAR
SCALE: 1" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
DETAILS

A-560
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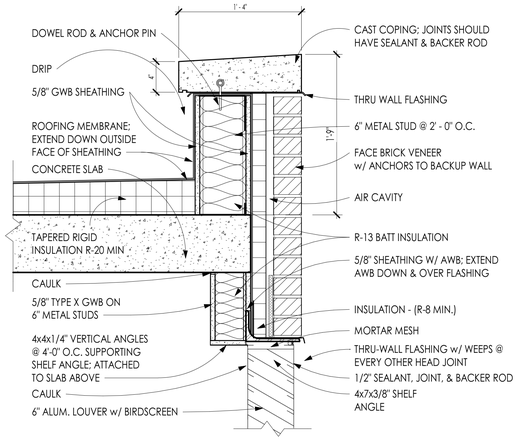
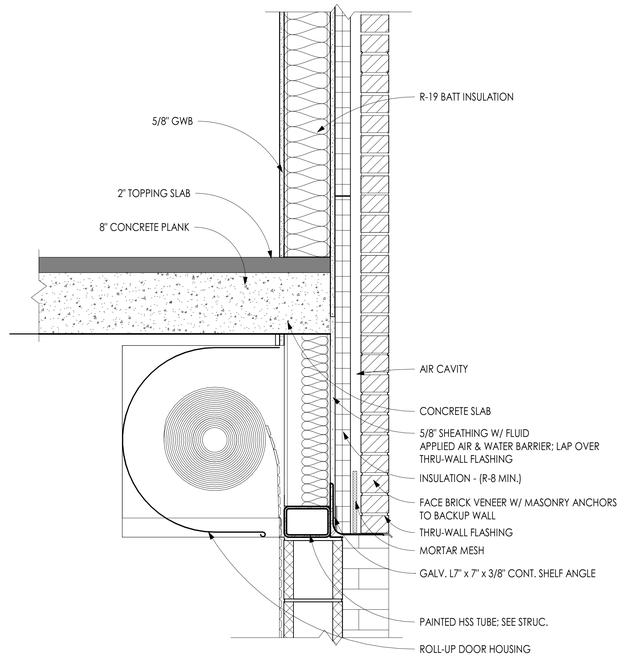
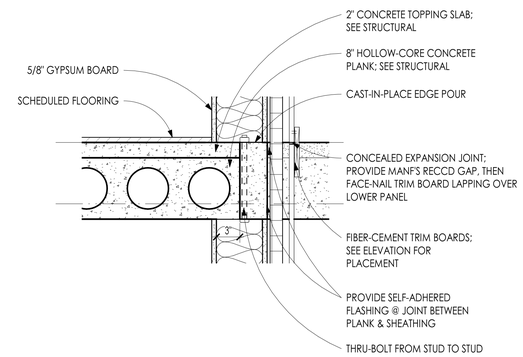


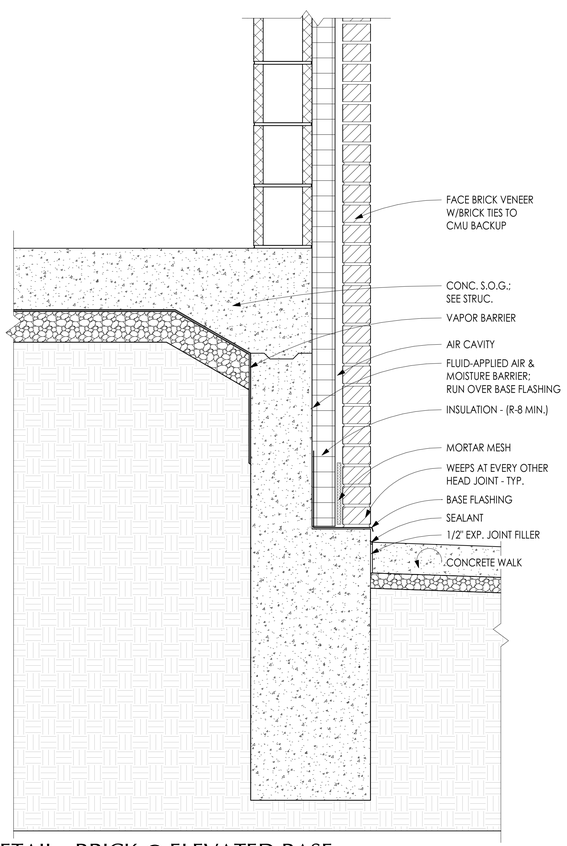
3 A-580 DETAIL - LOW COPING
SCALE: 1 1/2" = 1'-0"



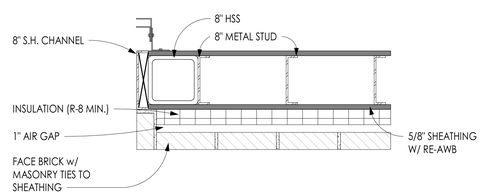
6 A-580 DETAIL - LOADING DOCK HEAD
SCALE: 1 1/2" = 1'-0"



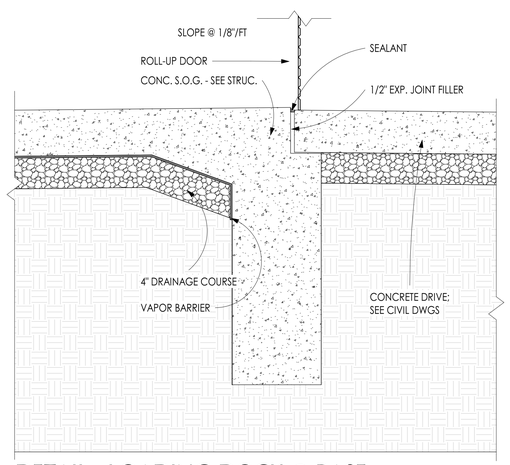
7 A-580 DETAIL - HOTEL WALL DETAIL
SCALE: 1 1/2" = 1'-0"



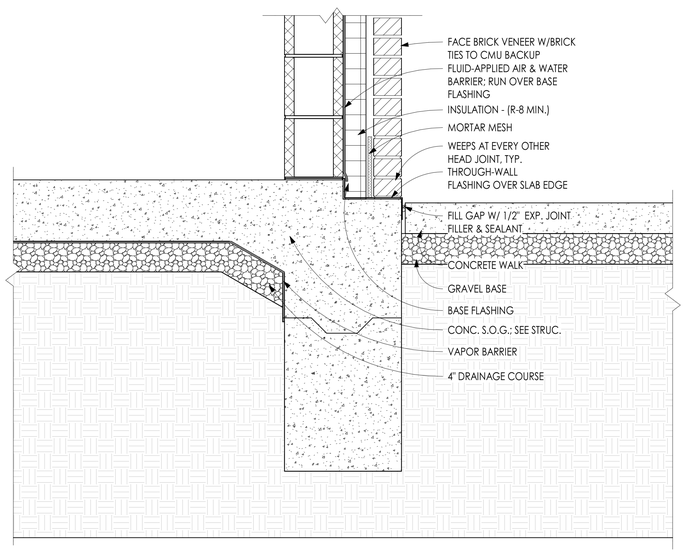
2 A-580 DETAIL - BRICK @ ELEVATED BASE
SCALE: 1 1/2" = 1'-0"



5 A-580 JAMB DETAIL - OVERHEAD DOOR @ LOADING DOCK
SCALE: 1 1/2" = 1'-0"



4 A-580 DETAIL - LOADING DOCK @ BASE
SCALE: 1 1/2" = 1'-0"



1 A-580 DETAIL - BASE AT RAMP
SCALE: 1 1/2" = 1'-0"

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HOTEL HARTNESS

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DETAILS

A-580
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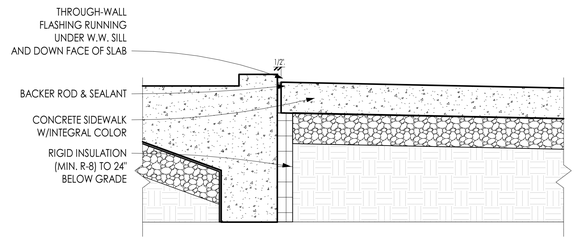
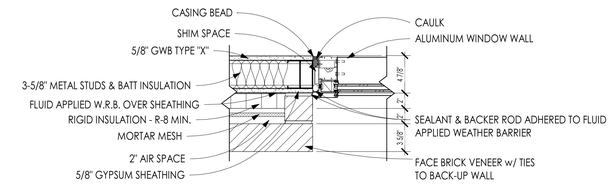
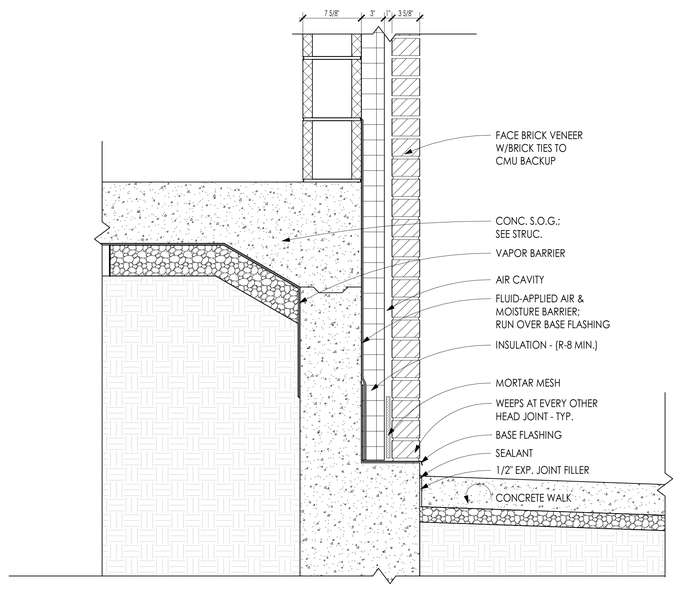


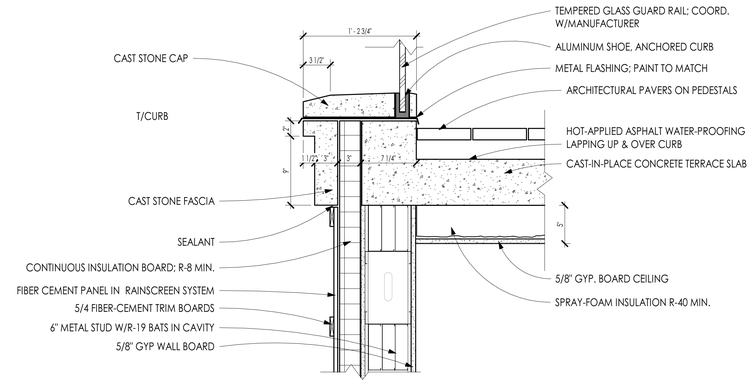
1 A-581 DETAIL - WINDOW WALL @ ELEVATOR LOBBY - BASE
SCALE: 1 1/2" = 1'-0"



2 A-581 DETAIL - BRICK @ STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0"



3 A-581 DETAIL - BASE @ BRICK - TYP.
SCALE: 1 1/2" = 1'-0"



4 A-581 DETAIL - TYPICAL GUARD RAIL @ BRICK
SCALE: 1 1/2" = 1'-0"

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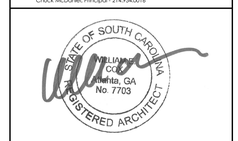

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FINISH SCHEDULE - BOH

Room Number	Name	Floor Finish	Wall Finish	Ceiling Finish	Base Finish
151	LOADING DOCK	Sealed Concrete	Epoxy Paint	Open to structure	Rubber Base
152	TRASH	Sealed Concrete	Epoxy Paint	Open to structure	Rubber Base
154	DOCK STORAGE	Sealed Concrete	Epoxy Paint	Open to structure	Rubber Base
155	ENG/MAINT	Sealed Concrete	Epoxy Paint	Open to structure	Rubber Base
155B	HR	Carpet Tile	Paint	ACT	Rubber Base
156	M	Porcelain Tile	Wall tile/epoxy paint	Scrubbable ACT	Cove Tile Base
157	W	Porcelain Tile	Wall tile/epoxy paint	Scrubbable ACT	Cove Tile Base
158	MAIN. ELEC.	Sealed Concrete	Paint	Open to structure	Rubber Base
159	LAUNDRY	Sealed Concrete	Paint	Scrubbable ACT	Rubber Base
160	MECH.	Sealed Concrete	Paint	Open to structure	Rubber Base
161	EMPLOYEE DINING	Epoxy Flooring	Epoxy Paint	Scrubbable ACT	Integrated Epoxy Base
162	FOOD STOR	Epoxy Flooring	FRP	Scrubbable ACT	Integrated Epoxy Base
163	STORAGE	Sealed Concrete	Paint	ACT	Rubber Base
178	CORRIDOR	Sealed Concrete	Paint	ACT	Rubber Base
185	MAIN KITCHEN	Epoxy Flooring	FRP	Scrubbable ACT	Integrated Epoxy Base
187	CORRIDOR	Epoxy Flooring	Paint	Scrubbable ACT	Integrated Epoxy Base
188	KITCHEN	Epoxy Flooring	FRP	Scrubbable ACT	Integrated Epoxy Base
190	MECH	Sealed Concrete	Paint	Open to structure	Rubber Base
S203	PANTRY	Porcelain Tile	Wall tile/paint	PTD. GYP. BD.	Designer Vinyl Base
S204	ADMIN	Carpet Tile	Paint	PTD. GYP. BD.	Designer Vinyl Base
S213	JAN	Sealed Concrete	Epoxy Paint	ACT	Rubber Base
S221	MECH.	VCT	Paint	ACT	Rubber Base
S222	LINEN	VCT	Paint	ACT	Rubber Base
S223	LINEN	VCT	Paint	ACT	Rubber Base
S224	WC	Porcelain Tile	Wall tile/paint	PTD. GYP. BD.	Cove Tile Base
S225	PREP	VCT	Paint	ACT	Rubber Base
251	LINEN	Sealed Concrete	Paint	ACT	Rubber Base
252	ELEC/IT	AS/VCT	Paint	Open to structure	Rubber Base
253	HSKPNG	VCT	Paint	ACT	Rubber Base
263	BALLROOM STORAGE	Epoxy Flooring	Paint	Scrubbable ACT	Integrated Epoxy Base
265	SERVICE	Epoxy Flooring	FRP	Scrubbable ACT	Integrated Epoxy Base
272	LUGGAGE	VCT	Paint	PTD. GYP. BD.	Rubber Base
273	WORK AREA	Carpet Tile	Paint	PTD. GYP. BD.	Rubber Base
274	OFFICE	Carpet Tile	Paint	PTD. GYP. BD.	Rubber Base
275	HALL	Carpet Tile	Paint	PTD. GYP. BD.	Rubber Base
281	STORAGE	Sealed Concrete	Paint	PTD. GYP. BD.	Rubber Base
296.1	JAN.	Sealed Concrete	Paint	ACT	Rubber Base
297	SUPPORT	Sealed Concrete	Paint	ACT	Rubber Base
339	EXTERIOR SERVICE TERRACE	Sealed Concrete	-	Open to structure	-
307	ATTIC	VCT	Existing to remain	Existing to remain	Existing to remain
308	ATTIC	VCT	Existing to remain	Existing to remain	Existing to remain
351	LINEN	Sealed Concrete	Paint	ACT	Rubber Base
352	ELEC/IT	AS/VCT	Paint	Open to structure	Rubber Base
353	HSKPG	VCT	Paint	ACT	Rubber Base

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STATE OF SOUTH CAROLINA
WILLIAM E. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
BOH FINISH SCHEDULE

A-601
Sheet Number

NOT ISSUED FOR CONSTRUCTION

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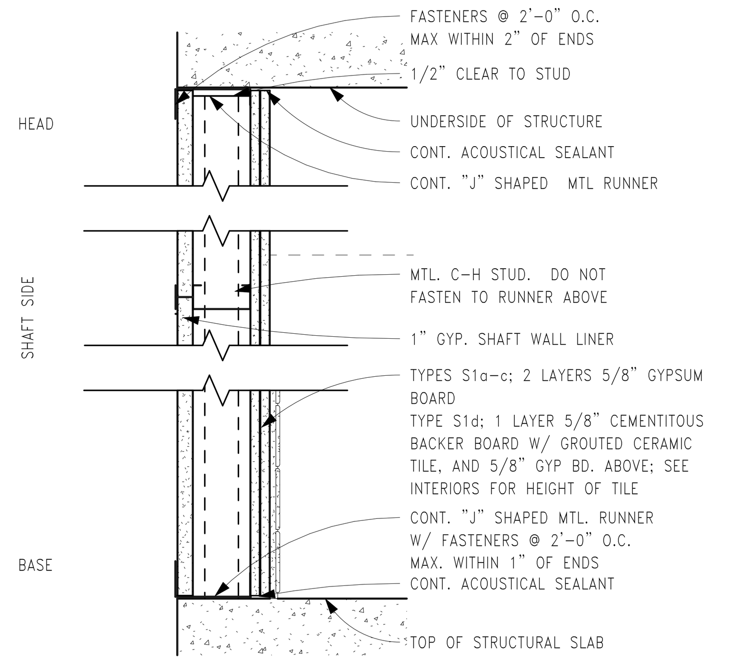
3/2/2020 2:43:57 PM

SHAFT WALL PARTITION DETAILS

TYPE	DESCRIPTION
S1a	SHAFT WALL PARTITION – 1 FINISHED SIDE 2 1/2" METAL C-H STUDS @ 12" O.C. 2-HOUR RATED U.L. # U438
S1b	SHAFT WALL PARTITION – 1 FINISHED SIDE 4" METAL C-H STUDS @ 24" O.C. 2-HOUR RATED U.L. # U438
S1c	SHAFT WALL PARTITION – 1 FINISHED SIDE 4" METAL C-H STUDS @ 24" O.C. CEMENTITIOUS BOARD & TILE 2-HOUR RATED U.L. # U438
S1d	SHAFT WALL PARTITION – 1 FINISHED SIDE 4" METAL C-H STUDS @ 24" O.C. GROUTED CERAMIC TILE 2-HOUR RATED U.L. # U438

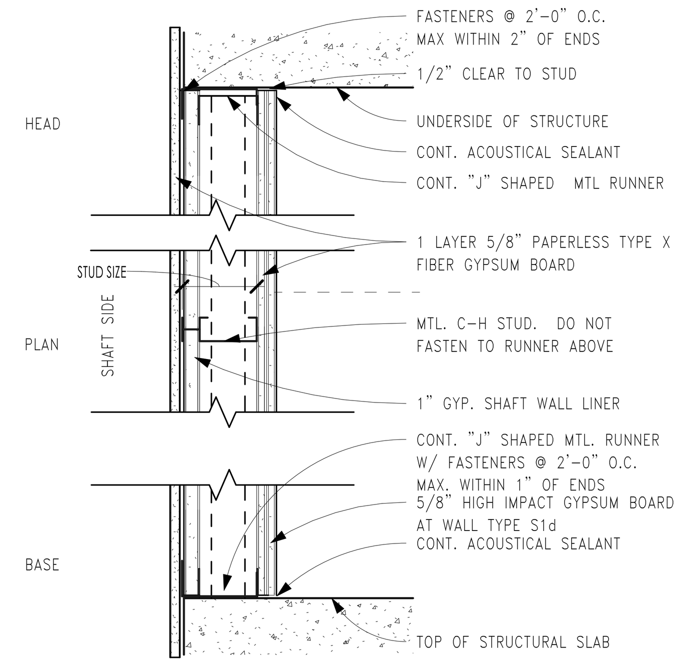
DETAILS



SHAFT WALL PARTITION DETAILS

TYPE	DESCRIPTION
S2a	SHAFT WALL PARTITION – 1 FINISHED SIDE 2 1/2" METAL C-H STUDS @ 12" O.C. 2-HOUR RATED U.L. # U467
S2b	SHAFT WALL PARTITION – 1 FINISHED SIDE 4" METAL C-H STUDS @ 24" O.C. 2-HOUR RATED U.L. # U467
S2c	SHAFT WALL PARTITION – 1 FINISHED SIDE 6" METAL C-H STUDS @ 24" O.C. 2-HOUR RATED U.L. # U467
S2d	SHAFT WALL PARTITION – 1 FINISHED SIDE 4" METAL C-H STUDS @ 24" O.C. HIGH IMPACT GYPSUM BOARD 2-HOUR RATED U.L. # U467

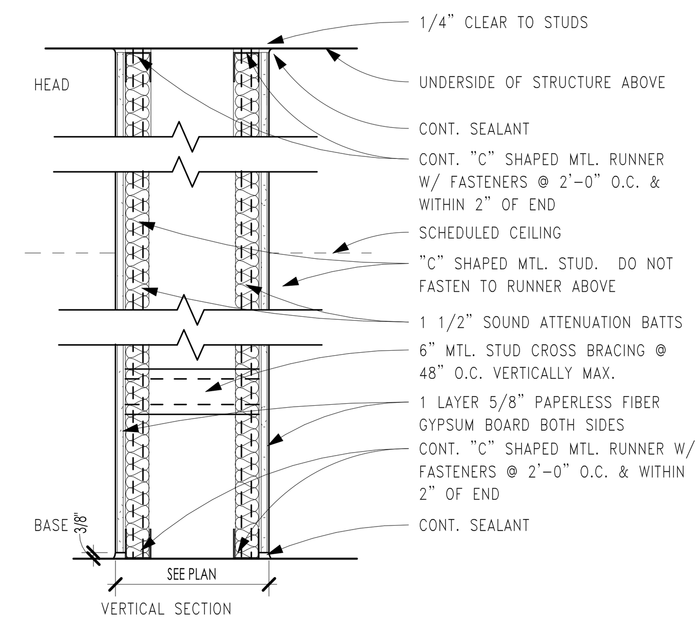
DETAILS



CHASE WALL PARTITION DETAILS

TYPE	DESCRIPTION
C1a	GYP. BD. & MTL STUD CHASE WALL TO STRUCTURE. 1 5/8" STUDS @ 16" O.C. w/ S.A.B. NON-COMBUSTIBLE
C1b	GYP. BD. & MTL STUD CHASE WALL TO STRUCTURE. 2 1/2" STUDS @ 16" O.C. w/ S.A.B. NON-COMBUSTIBLE

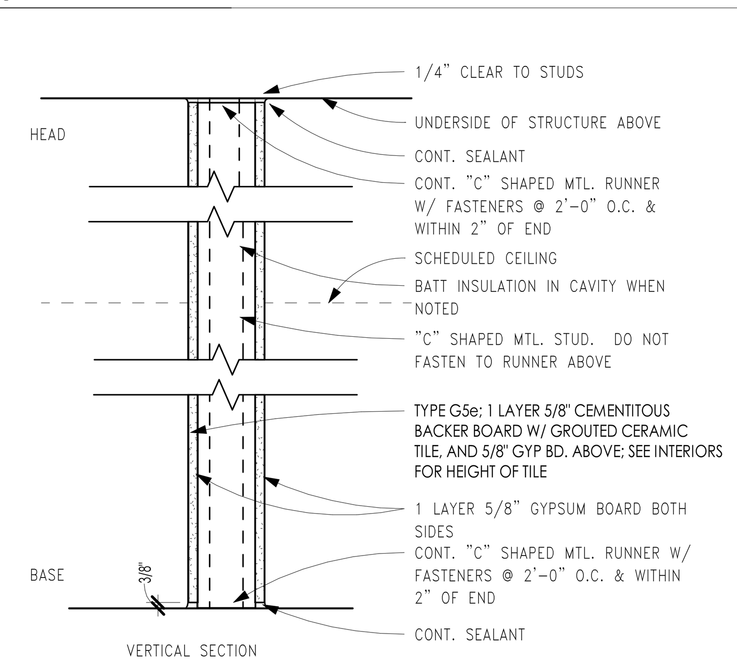
DETAILS



GYPSUM PARTITION DETAILS

TYPE	DESCRIPTION
G1a	GYP. BD. & MTL STUD TO STRUCTURE. 3 5/8" STUDS 1 HOUR RATED UL# U419 STC 49
G1b	GYP. BD. & MTL STUD TO STRUCTURE. 6" STUDS
G1c	GYP. BD. & MTL STUD TO STRUCTURE. 8" STUDS HIGH IMPACT GYPSUM BOARD NON-COMBUSTIBLE
Gd	GYP. BD. & MTL STUD TO STRUCTURE. 6" STUDS @ W/ R-19 BATT INSULATION
G1e	GYP. BD. & MTL STUD TO STRUCTURE. 3 5/8" STUDS @ 24" O.C., W/TILE NON-COMBUSTIBLE

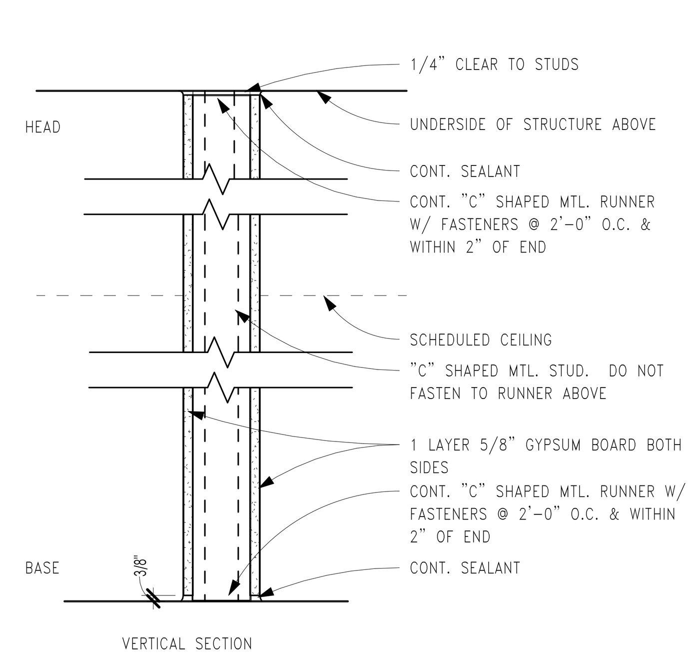
DETAILS



GYPSUM PARTITION DETAILS 1 HR RATED

TYPE	DESCRIPTION
G2a	GYP. BD. & MTL STUD TO STRUCTURE. 2 5/8" STUDS NON-COMBUSTIBLE UL U419
G2b	GYP. BD. & MTL STUD TO STRUCTURE. 36" STUDS NON-COMBUSTIBLE; UL U419
G2c	GYP. BD. & MTL STUD TO STRUCTURE. 8" STUDS NON-COMBUSTIBLE; UL U419

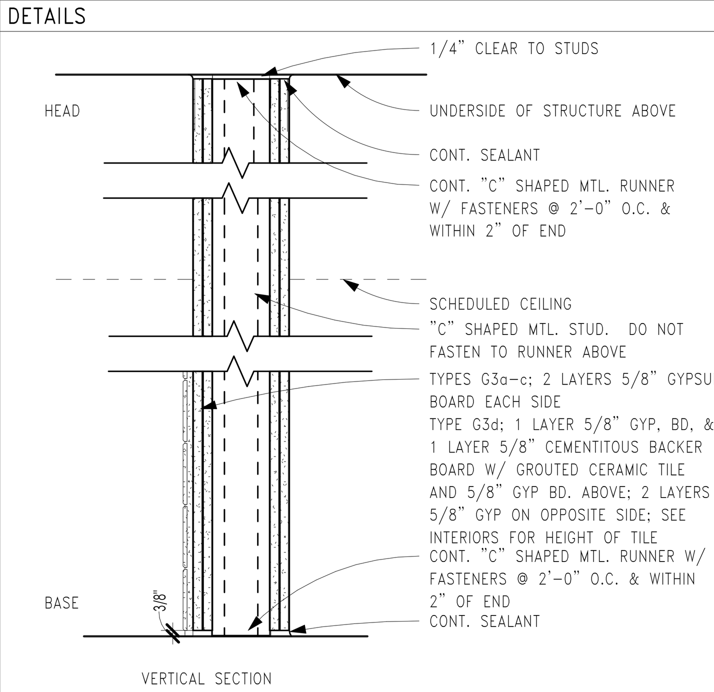
DETAILS



GYPSUM PARTITION DETAILS 2 HR RATED

TYPE	DESCRIPTION
G3a	GYP. BD. & MTL STUD TO STRUCTURE. 3 5/8" STUDS 2 HOUR RATED UL# U419 STC 56
G3b	GYP. BD. & MTL STUD TO STRUCTURE. 6" STUDS 2 HOUR RATED UL# U443 STC 56
G3c	GYP. BD. & MTL STUD TO STRUCTURE. 8" STUDS . 2 HOUR RATED UL# U443 STC 56
G3d	GYP. BD. & MTL STUD TO STRUCTURE. 3 5/8" STUDS TILE ON EXT. FACE 2 HOUR RATED UL# U443 STC 56

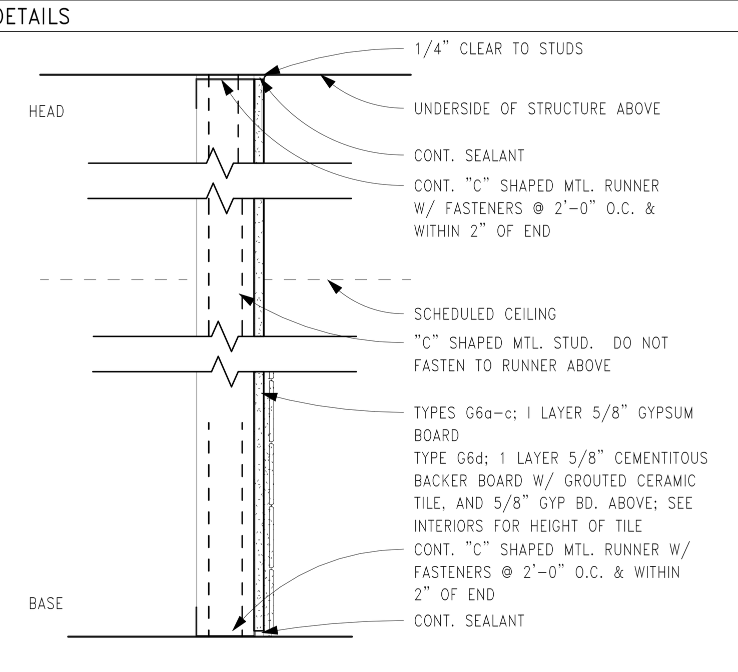
DETAILS



GYPSUM PARTITION DETAILS - ONE-SIDED

TYPE	DESCRIPTION
G5a	GYP. BD. & MTL STUD TO STRUCTURE. 2 1/2" STUDS @ 16" O.C. NON-COMBUSTIBLE
G5b	GYP. BD. & MTL STUD TO STRUCTURE. 3 5/8" STUDS @ 16" O.C. NON-COMBUSTIBLE
G5c	GYP. BD. & MTL STUD TO STRUCTURE. 6" STUDS @ 16" O.C. NON-COMBUSTIBLE
G5d	GYP. BD. & MTL STUD TO STRUCTURE. 3 5/8" STUDS @ 16" O.C. W/TILE NON-COMBUSTIBLE
G5e	GYP. BD. & MTL STUD TO STRUCTURE. 8" STUDS @ 16" O.C. NON-COMBUSTIBLE
G5f	GYP. BD. & MTL STUD TO STRUCTURE. 6" STUDS @ 2 LAYERS GWB NON-COMBUSTIBLE

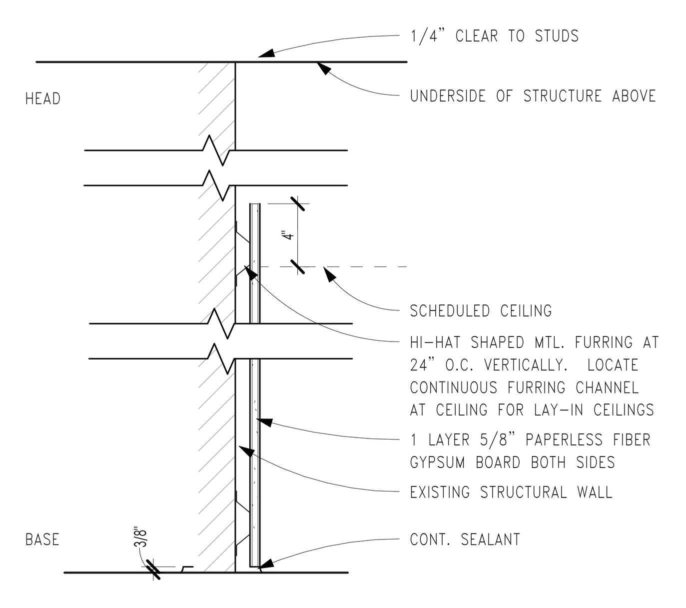
DETAILS



FURRING DETAILS

TYPE	DESCRIPTION
F1a	GYP. BD. ON MTL. FURRING 7/8" HI-HAT FURRING @ 24" O.C. VERTICALLY NON-COMBUSTIBLE
F1b	GYP. BD. ON MTL. FURRING 1 1/2" HI-HAT FURRING @ 24" O.C. VERTICALLY NON-COMBUSTIBLE

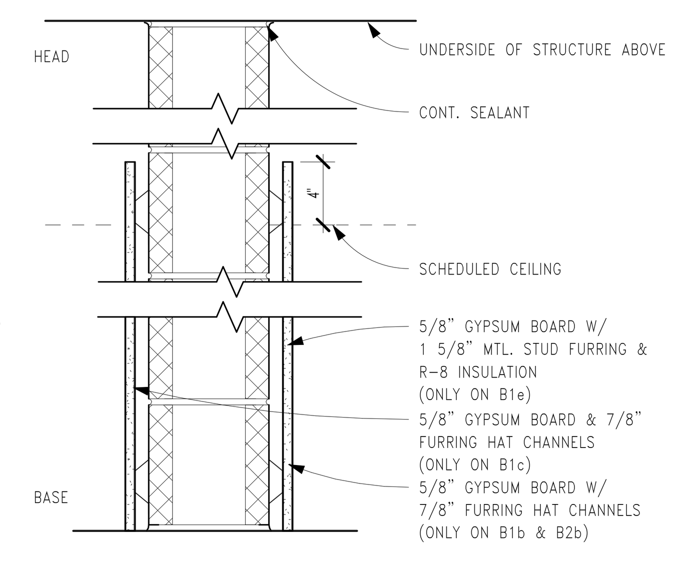
DETAILS



CONCRETE MASONRY PARTITION DETAILS

TYPE	DESCRIPTION
B1a	8"X8"X16" CMU TO STRUCTURE. SEE STRUCT. FOR REINFORCING NON-COMBUSTIBLE
B1b/c	8"X8"X16" CMU TO STRUCTURE, W/GYPSUM FURRING; b-FURRING ON ONE SIDE; c- BOTH SIDES SEE STRUCT. FOR REINFORCING NON-COMBUSTIBLE;
B1d	8"X8"X16" CMU TO STRUCTURE, W/EIFS; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE;
B1e	8"X8"X16" CMU TO STRUCTURE, W/1 5/8" STUD FURRING, 5/8" GYP. BD. & BATT INSULATION; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE;
B1f	8"X8"X16" CMU TO STRUCTURE, W/BRICK CLADDING; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE;

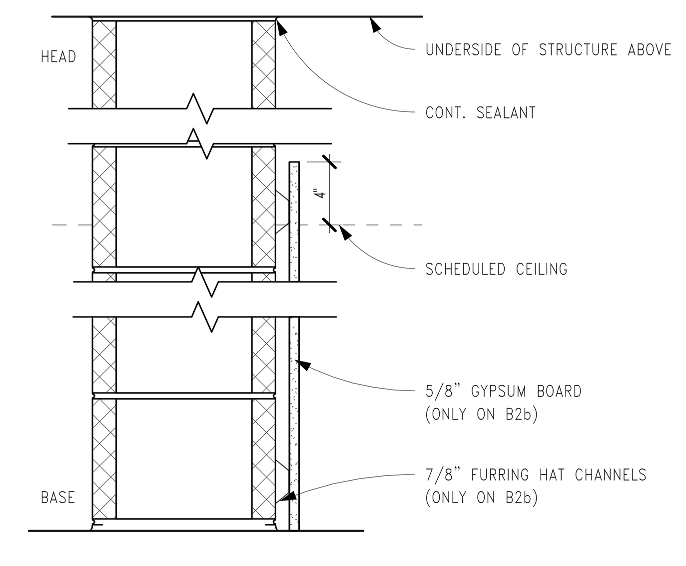
DETAILS



CONCRETE MASONRY PARTITION DETAILS

TYPE	DESCRIPTION
B2a	12"X8"X16" CMU TO STRUCTURE. SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE NON-RATED UL U907
B2b	12"X8"X16" CMU TO STRUCTURE, W/GYPSUM FURRING; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE 3 HR RATED UL U907

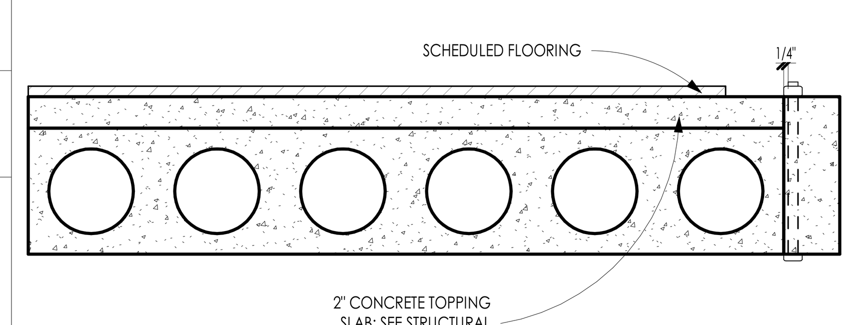
DETAILS



PRECAST PLANK STRUCTURAL FLOORS/CEILINGS

TYPE	DESCRIPTION
PP8	8" PRECAST PLANK W/2" CONCRETE TOPPING LOAD BEARING FLOOR SLAB; SEE STRUCTURAL
PP6	6" PRECAST PLANK

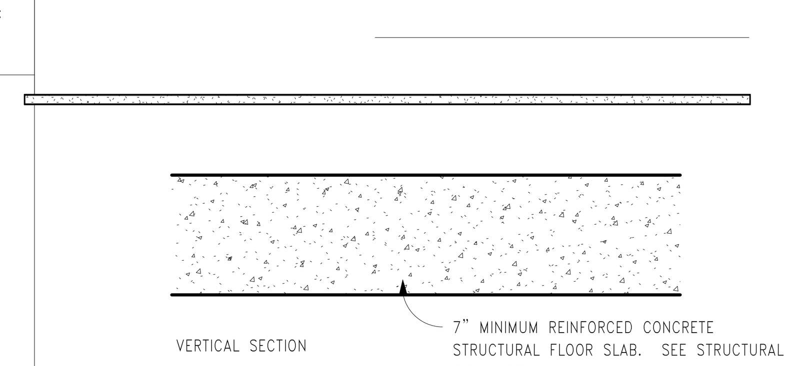
DETAILS



CONCRETE STRUCTURAL FLOORS/CEILINGS

TYPE	DESCRIPTION
F/C	7" CONCRETE STRUCTUAL LOAD BEARING FLOOR SLAB SEE STRUCTURAL DRAWINGS PERSCRIPTIVE FIRE RATING: 2006IBC Table 720.1(3) Item1-1.1 = 4 HR Min.

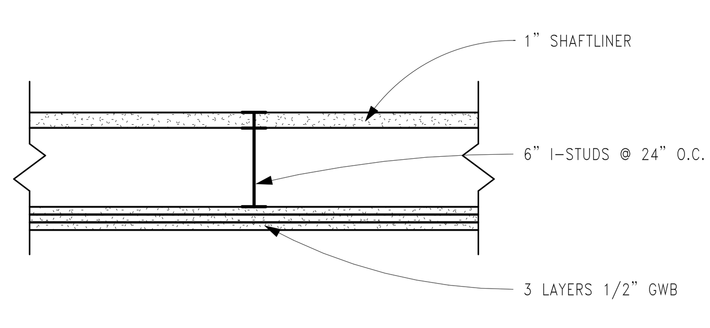
DETAILS



2-HR RATED HORIZONTAL GYP. SHAFT WALL

TYPE	DESCRIPTION
HSW -1	6" I-STUDS @ 24" O.C.; 1" SHAFTLINER, 3 LAYERS 1/2" GWB, W/BASE AND MIDDLE LAYERS PARALLEL TO STUDS; FACE LAYER PERPINDICULAR WHI 694-0300.1

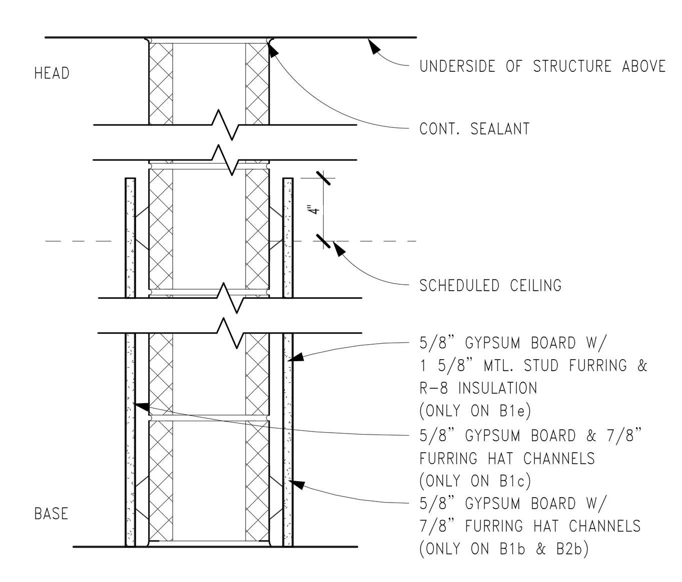
DETAILS



CONCRETE MASONRY PARTITION DETAILS

TYPE	DESCRIPTION
B3a	8"X8"X16" CMU TO STRUCTURE. SEE STRUCT. FOR REINFORCING NON-COMBUSTIBLE; 2-HOUR RATED; UL U906
B3b/c	8"X8"X16" CMU TO STRUCTURE, W/GYPSUM FURRING; b-FURRING ON ONE SIDE; c- BOTH SIDES SEE STRUCT. FOR REINFORCING NON-COMBUSTIBLE; 2 HR RATED UL U906
B3d	8"X8"X16" CMU TO STRUCTURE, W/EIFS; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE; 2 HR RATED UL U906
B3e	8"X8"X16" CMU TO STRUCTURE, W/1 5/8" STUD FURRING, 5/8" GYP. BD. & BATT INSULATION; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE; 2 HR RATED UL U906
B3f	8"X8"X16" CMU TO STRUCTURE, W/BRICK CLADDING; SEE STRUCTURAL FOR REINFORCING NON-COMBUSTIBLE; 2 HR RATED UL U906

DETAILS



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Chuck McDaniel, Principal - 214.954.0016

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No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT

HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
PARTITION TYPES SCHEDULE

A-602
Sheet Number

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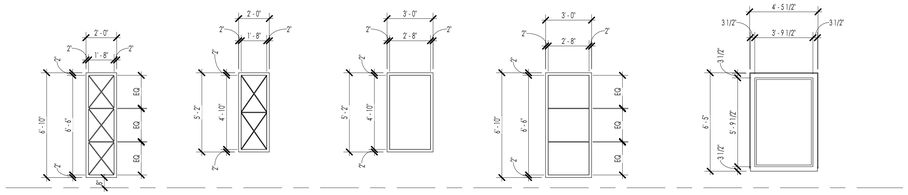


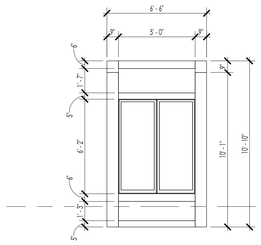
A
FIXED WINDOW
VISION GLASS

B
FIXED WINDOW
VISION GLASS

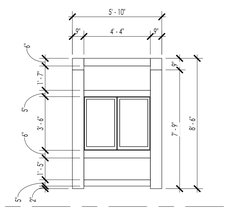
C
FIXED WINDOW
VISION GLASS

D
FIXED WINDOW
VISION GLASS

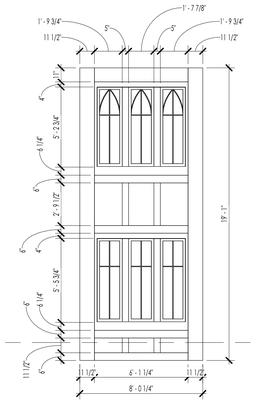
E
FIXED WINDOW
VISION GLASS



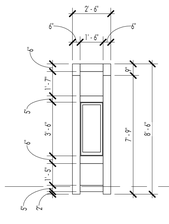
H1
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED



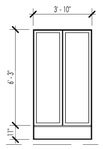
H2
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED



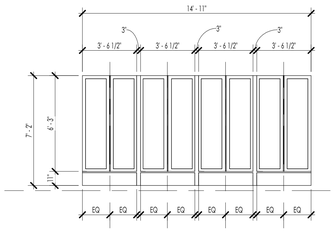
H3
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED



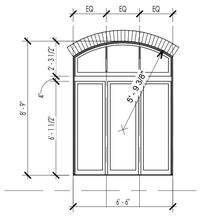
H4
FIXED WINDOW
OBSCURE FRITTED GLAZING
NEW TRIM



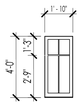
H5
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED



H6
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED

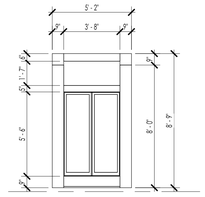


H7
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED

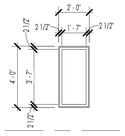


H8
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED

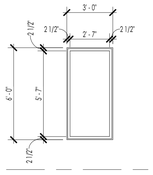
H9
FIXED WINDOW
VISION GLASS
1 HOUR RATED FRAME
AND GLAZING



H10
FIXED WINDOW
VISION GLASS
GLAZING AND SASHES TO
BE REPLACED



H11
FIXED WINDOW
VISION GLASS



H12
FIXED WINDOW
VISION GLASS

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STUDIO

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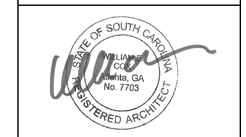

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing, the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
WINDOW AND LOUVER SCHEDULE

A-603
Sheet Number

NOT ISSUED FOR CONSTRUCTION

C:\RevitFiles\1801.01 Hartness Inn_Central_R19_V3_sculpepper@ctcdesignstudio.com.rvt
3/2/2020 2:44:02 PM

PUBLIC/BOH DOOR SCHEDULE

Mark	Location	Door Type	Width	Height	Thickness	Door Material	Door Finish	Door Glass	Frame Material	Frame Type	Frame Finish	Fire Rating	Hardware Set	Head	Jamb	Sill	Comments
88	COPY	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
91	STOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
150A	STAIR A	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					PANIC HARDWARE
150B		P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					PANIC HARDWARE
153A	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
153B		P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					WALL MOUNTED CARD READER / PANIC HARDWARE
154B	DOCK STORAGE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
155A	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
155B	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
156A	M	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
156C	M	P-M	2' - 4"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
156D	M	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
157A	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
157B	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
157C	W	P-M	2' - 4"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
157D	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
158A	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					PANIC HARDWARE
158B	MAIN. ELEC.	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					PANIC HARDWARE
158C	MAIN. ELEC.	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	90 MIN.					
159B	LAUNDRY	C	2' - 0"	7' - 0"	1 3/4"	SCWD	STND.	TEMPERED	HM	A	STND.	-					
161	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
162	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
167	STAIR B	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					PANIC HARDWARE
169A	WOMENS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
169B	WOMENS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
169C	WOMENS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
170A	MENS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
170B	MENS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
171A	FITNESS	P-GL	3' - 0"	7' - 0"	1 3/4"	SCWD	SPECIAL	-	WD.	A	SPECIAL	-					
172A		P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					PANIC HARDWARE
172B	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					DOOR MOUNTED CARD READER
173B	PREFUNCTION	P-Y	2' - 10"	6' - 8"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					WALL MOUNTED CARD READER / PANIC HARDWARE
174A	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
174B	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
174C	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
175A	M	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
175B	M	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
181A	MTG A	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER
182A	MTG B	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER
183A	MTG C	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
184A	PREFUNCTION	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
185B	MAIN KITCHEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
185D	MAIN KITCHEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
185E	DRY STORAGE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
185F	FREEZER/COOLER	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
185G	COOLER	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
189A	POOL EQUIP. RM.	P-B	3' - 6"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
190	MECH	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
250	STAIR A	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					PANIC HARDWARE
251	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
252	ELEC/IT	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
256	STAIR B	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					PANIC HARDWARE
256B	STAIR B	P-X	3' - 0"	8' - 0"	1 3/4"	HM	PT	-	HM	B	STND.	-					PANIC HARDWARE
261A	M	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
261B	M	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
262A	W	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
262B	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
262C	W	P-R	2' - 8"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
262D	W	P-R	2' - 8"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
265B	SERVICE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
265C	SERVICE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
265D	SERVICE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
265E	SERVICE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					WALL MOUNTED CARD READER / PANIC HARDWARE
266.2B	BALLROOM B		1' - 6"	13' - 0"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
266.2C	SERVICE		1' - 6"	13' - 0"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
266.3A	BALLROOM A	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
270D	GREAT ROOM	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
272A	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER
272C	LUGGAGE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
274A	OFFICE	P-O	2' - 10"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
275A	REGISTRATION	P-MI	2' - 10"	7' - 0"	1 3/4"	SCWD	PTD.	-	HM / WD CASING	A	PTD.	-					
281A	STORAGE	P-R	2' - 8"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
285A	TOILET	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
286A	VANITY	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
287A	TOILET	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
289A	EVENT SPACE	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					PANIC HARDWARE
289D	EVENT SPACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					PANIC HARDWARE
291	EVENT SPACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
294A	EXTERIOR SERVICE TERRACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
294B	BAR	P-B	3' - 0"	4' - 6"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
295	EVENT SPACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
296	EVENT SPACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
296.1	JAN.	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
297	EVENT SPACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
298A	RESTAURANT DINING	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
298B	M	P-R	2' - 8"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
298C	M	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
299	EVENT SPACE	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
299A	W	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
299B	W	P-R	2' - 8"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
299C	W	P-R	2' - 8"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
299D	W	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
299E	W	P-Y	2' - 10"	6' - 8"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
350	STAIR A	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					PANIC HARDWARE
351	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
352	ELEC/IT	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
353	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER
356	STAIR B	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	45 MIN.					PANIC HARDWARE
362	STOR	P-Y	2' - 10"	6' - 8"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
363	BOH BALCONY	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
364	COPY	P-Y	2' - 10"	6' - 8"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
366A	BOH BALCONY	P-Y	2' - 10"	6' - 8"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
S204	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					DOOR MOUNTED CARD READER
S210A	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER
S210B	CORRIDOR	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					WALL MOUNTED CARD READER / PANIC HARDWARE
S211A	WOMEN LOCKERS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S211B	WOMEN LOCKERS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S211C	WOMEN LOCKERS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S211D	WOMEN LOCKERS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S211E	WOMEN LOCKERS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S211F	WOMEN LOCKERS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S211G	WOMEN LOCKERS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S212A	MEN LOCKERS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S212B	MEN LOCKERS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S212C	MEN LOCKERS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S212D	MEN LOCKERS	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S212E	MEN LOCKERS	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S212F	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S213	JAN	P-W	2' - 6"	7' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	A	STND.	-					
S215	TRMT 1	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S216	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S217	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S218	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S219	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S220	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					
S221	CORRIDOR	P-Y	2' - 10"	6' - 8"	1 3/4"	SCWD	PTD.	-	HM	A	PTD.	-					
S222	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
S223A	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					DOOR MOUNTED CARD READER / PANIC HARDWARE
S223B	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					WALL MOUNTED CARD READER / PANIC HARDWARE
S224	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
S225	LINEN	P-B	3' - 0"	7' - 0"	1 3/4"	HM	PTD.	-	HM	A	PTD.	-					
S226A	CORRIDOR	P-S	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	-					WALL MOUNTED CARD READER / PANIC HARDWARE

PUBLIC/BOH DOOR SCHEDULE

Mark	Location	Door Type	Width	Height	Thickness	Door Material	Door Finish	Door Glass	Frame Material	Frame Type	Frame Finish	Fire Rating	Hardware Set	Head	Jamb	Sill	Comments

GUESTROOM DOOR SCHEDULE

Mark	Location	Door Category	Door Type	Width	Height	Thickness	Door Material	Door Finish	Door Glass	Frame Material	Frame Type	Frame Finish	Fire Rating	Hardware Set	Head	Jamb	Sill	Comments
		Guestrooms	GR-A	3' - 0"	8' - 0"	1 3/4"	SCWD	STND.	-	HM / WD CASING	B	STND.	20 MIN.					
		Guestrooms	GR-B		7' - 0"	0"	SCWD	SPECIAL		HM / WD CASING		PTD.						
GR-C		Guestrooms	GR-C	3' - 0"	7' - 10"	1 3/4"	SCWD	STND.		HM / WD CASING		STND.						
		Guestrooms	P															
GR-T2		Guestrooms	P-GL	3' - 0"	7' - 0"	1 3/4"	SCWD	SPECIAL	-	WD.	A	SPECIAL	-					
GR-D	DELUXE JR-SUITE	Guestrooms	P-PO	3' - 0"	7' - 0"	2"												

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ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

Scale as stated herein are valid on the original drawing. the dimensions of which are 30 x 42 inches. The scales noted herein are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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Sheet Title
DOOR SCHEDULE

A-610
Sheet Number

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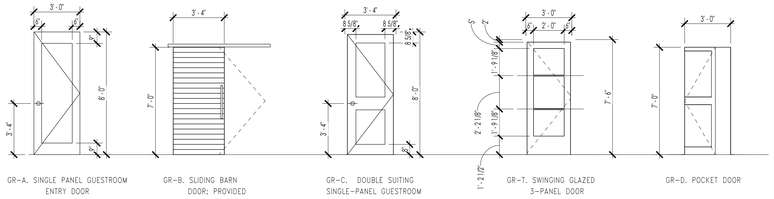
GUESTROOM DOOR TYPES



GR-A. SINGLE PANEL GUESTROOM ENTRY DOOR

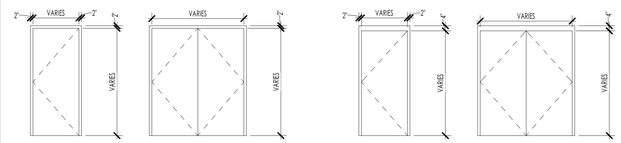
GR-B. SLIDING BARN DOOR; PROVIDED AS FF&E, SEE ID

GR-C. DOUBLE SUITING SINGLE-PANEL GUESTROOM CONNECTING DOOR

GR-T. SWINGING GLAZED 3-PANEL DOOR

GR-D. POCKET DOOR

FRAME TYPES



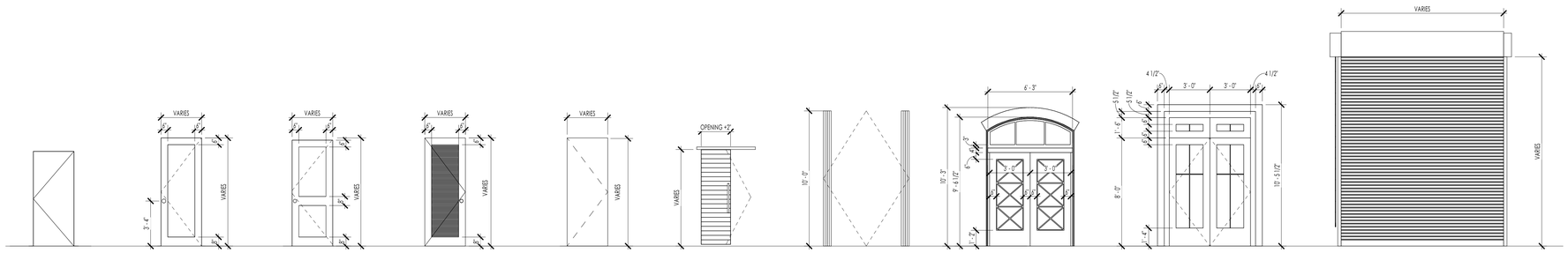
A. INTERIOR SINGLE

B. INTERIOR DOUBLE

A. EXTERIOR SINGLE IN MASONRY

B. EXTERIOR DOUBLE IN MASONRY

PUBLIC DOOR TYPES



P-A. SINGLE FLUSH SWING DOOR

P-B. SINGLE FULL-LITE WOOD DOOR

P-C. SINGLE TWO-PANEL WOOD DOOR

P-D. SINGLE LOUVERED WOOD DOOR

P-E. PUSH DOOR WITH APPLIED MILLWORK TRIM & FINISHES SEE ID FOR DETAILS

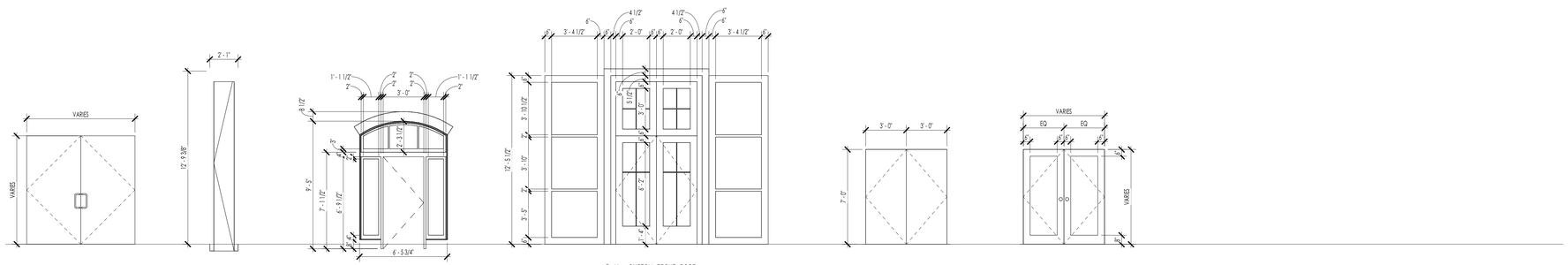
P-F. SLIDING BARN DOOR

P-G. BIFOLD DOOR

P-H. ARCHED SWINGING FLUSH 3-PANEL DOOR

P-K. CUSTOM GARAGE DOOR

P-L. INSULATED OVERHEAD SERVICE DOOR



P-N. PAIR FRAMELESS TEMPERED GLASS DOOR

P-P. MOVABLE PARTITION ENCLOSURE DOOR

P-T. ARCHED SWING FULL-LITE DOOR

P-V. CUSTOM FRONT DOOR

P-AA. PAIR FLUSH DOORS

P-BB. DOUBLE FULL-LITE WOOD DOORS

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
DOOR DETAILS

A-611

Sheet Number

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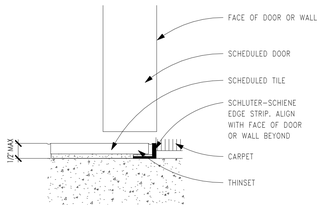
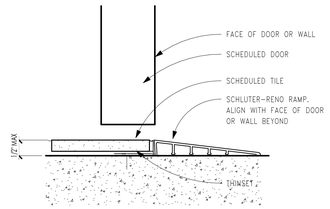
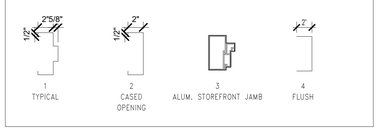


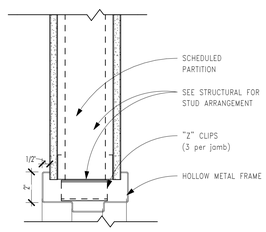
1 A-612 THRESHOLD - TILE TO CARPET
SCALE: 6" = 1'-0"



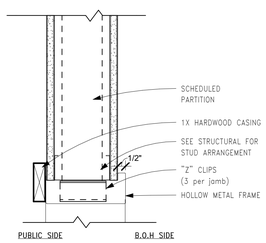
2 A-612 THRESHOLD - TILE TO CONCRETE
SCALE: 6" = 1'-0"

DOOR FRAME PROFILES

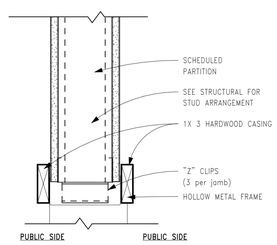




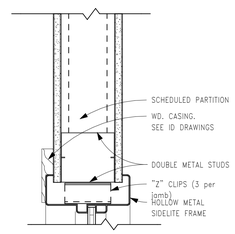
3 A-612 Head/Jamb - HM
SCALE: 3" = 1'-0"



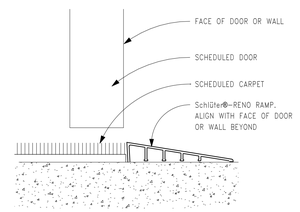
4 A-612 Head/Jamb - HM-WD Cased Opg
SCALE: 3" = 1'-0"



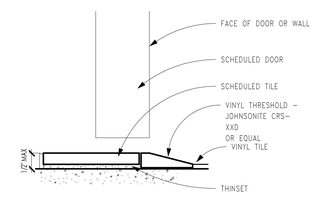
5 A-612 Head/Jamb - HM-WD Cased Opg.
SCALE: 3" = 1'-0"



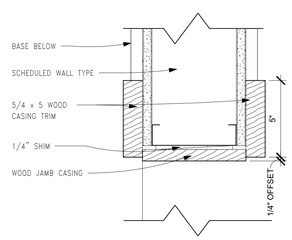
6 A-612 HEAD/JAMB- GLAZING
SCALE: 3" = 1'-0"



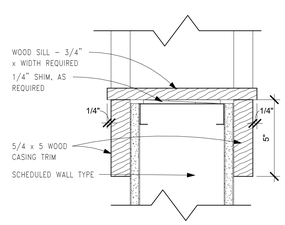
7 A-612 THRESHOLD - CARPET TO CONCRETE
SCALE: 6" = 1'-0"



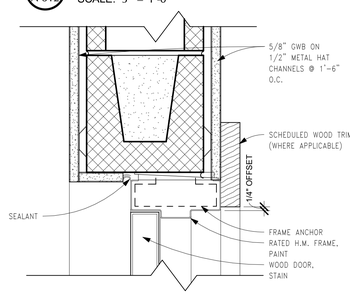
8 A-612 THRESHOLD - TILE TO VINYL
SCALE: 6" = 1'-0"



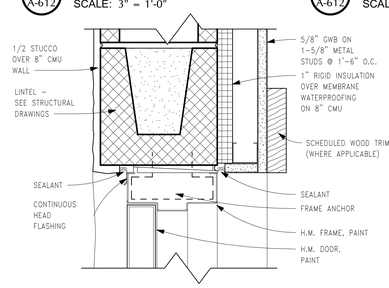
9 A-612 C.O. HEAD/JAMB
SCALE: 3" = 1'-0"



10 A-612 C.O. SILL
SCALE: 3" = 1'-0"

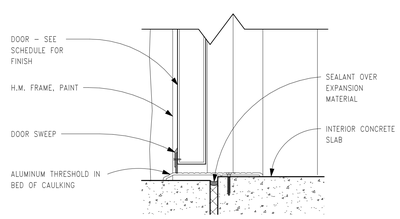


11 A-612 EXIT DOOR HEAD (JAMB SIM.)
SCALE: 3" = 1'-0"

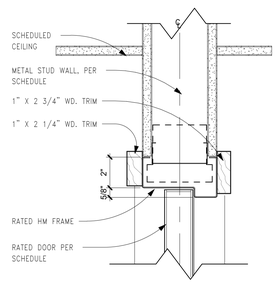


NOTES:
1. REFER TO ATTACHED MIAMI DADE NOTICE OF ACCEPTANCE FOR REQUIRED ATTACHMENT OF FRAME TO WALL.
2. SEE STRUCTURAL DRAWINGS SHEETS S 107.1, S 107.2 AND S 107.3 FOR DESIGN WIND PRESSURES.

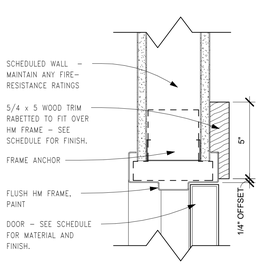
12 A-612 EXT HM HEAD (JAMB SIM.)
SCALE: 3" = 1'-0"



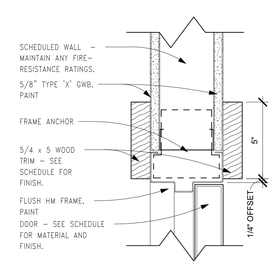
13 A-612 EXT HM THRESHOLD
SCALE: 3" = 1'-0"



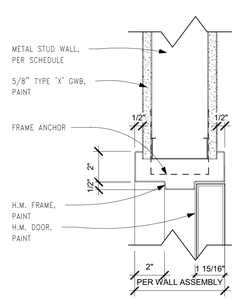
14 A-612 FIRE-RATED HM/WD DOOR HEAD (JAMB SIM.)
SCALE: 3" = 1'-0"



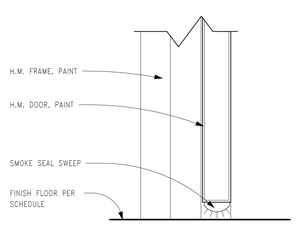
15 A-612 HM/WD 1
SCALE: 3" = 1'-0"



16 A-612 HM/WD 2
SCALE: 3" = 1'-0"

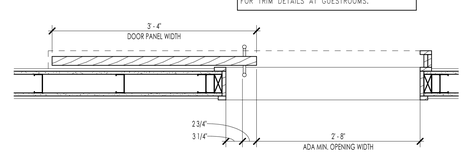


17 A-612 INT HM HEAD/JAMB
SCALE: 3" = 1'-0"

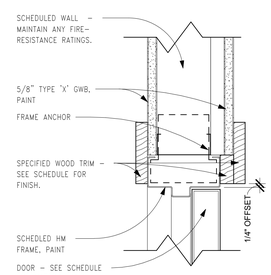


18 A-612 INT HM THRESHOLD
SCALE: 3" = 1'-0"

REFER TO UNIT PLANS FOR WALL TYPES AND DOOR LOCATIONS; SEE ID DRAWINGS FOR TRIM DETAILS AT GUESTROOMS.



19 A-612 GUEST BATHROOM BARN DOOR
SCALE: 1" = 1'-0"



20 A-612 HM/WD 3
SCALE: 3" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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DOOR DETAILS

A-612
Sheet Number

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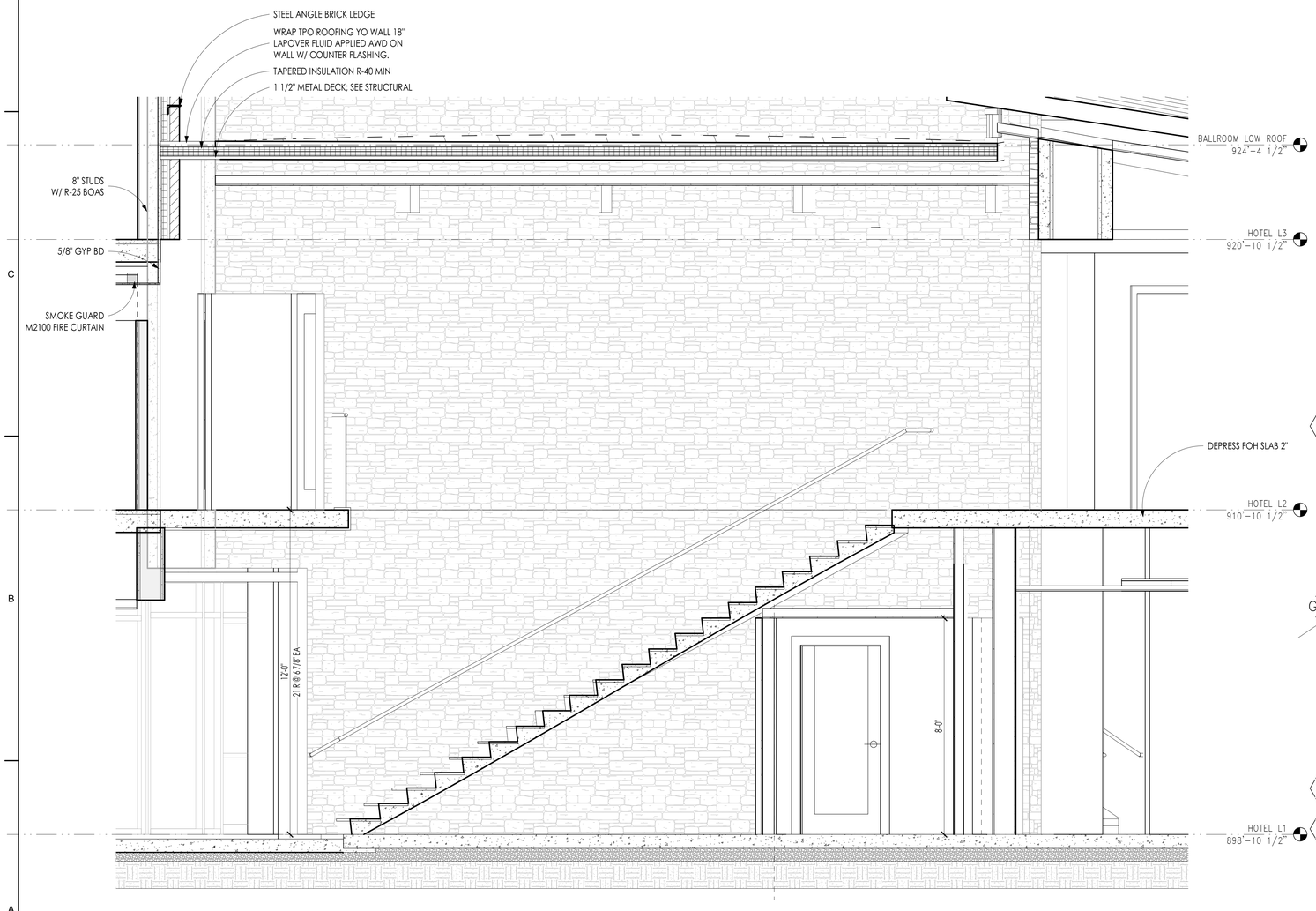
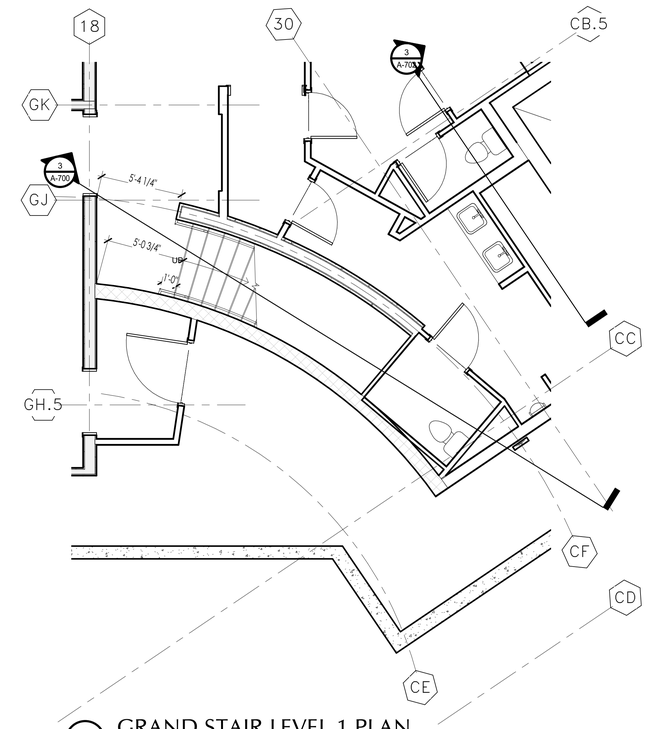
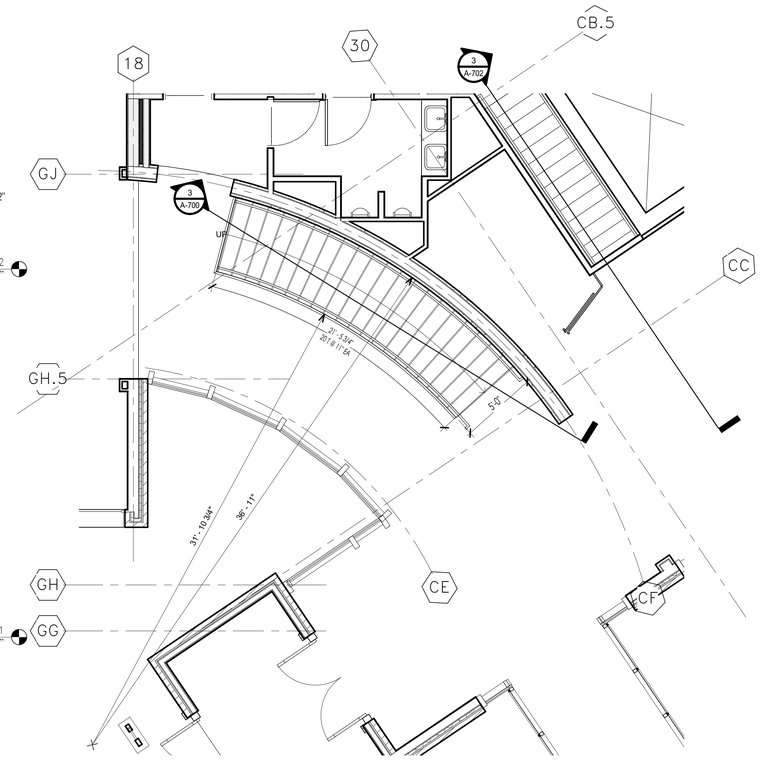


3 A-700 Grand Stair Section
SCALE: 1/2" = 1'-0"



1 A-700 GRAND STAIR LEVEL 1 PLAN
SCALE: 1/4" = 1'-0"



2 A-700 GRAND STAIR LEVEL 2 PLAN
SCALE: 1/4" = 1'-0"

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STATE OF SOUTH CAROLINA
WILLIAM R. COX
Atlanta, GA
No. 7703
REGISTERED ARCHITECT

ISSUANCES/REVISIONS

NO.	DATE	DESCRIPTION
B	02/28/2020	GMP Package

HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
GRAND STAIR PLANS

A-700
Sheet Number

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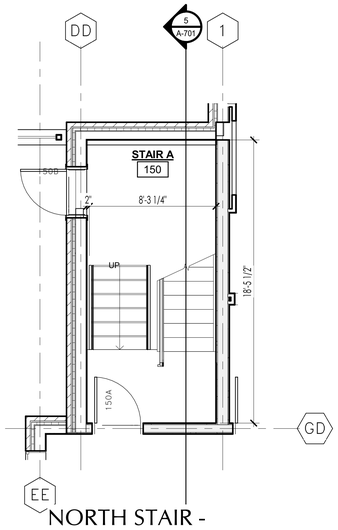
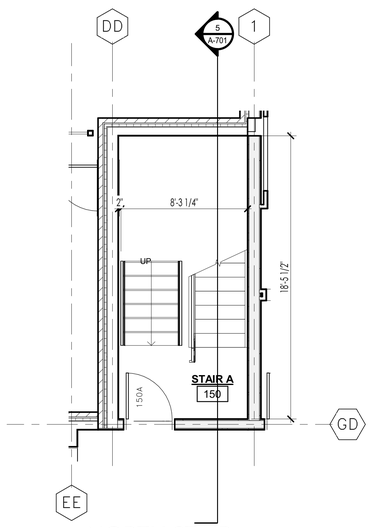


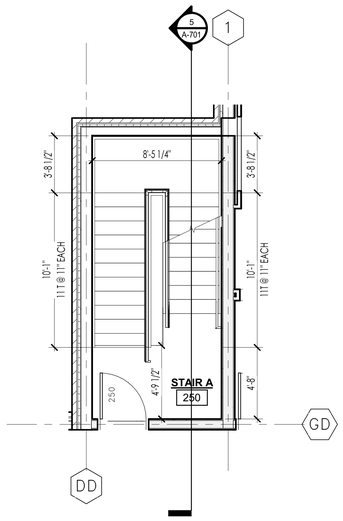
NORTH STAIR - LEVEL 1 EXIT AT GRADE

2 A-701 SCALE: 1/4" = 1'-0"



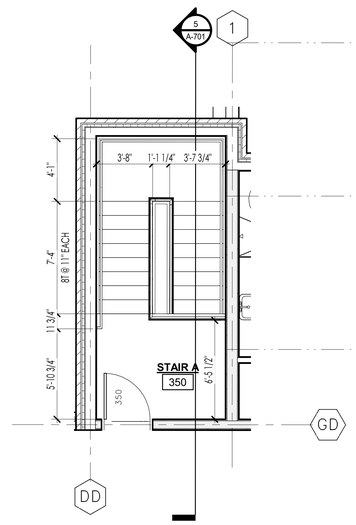
NORTH STAIR - LEVEL 1

1 A-701 SCALE: 1/4" = 1'-0"



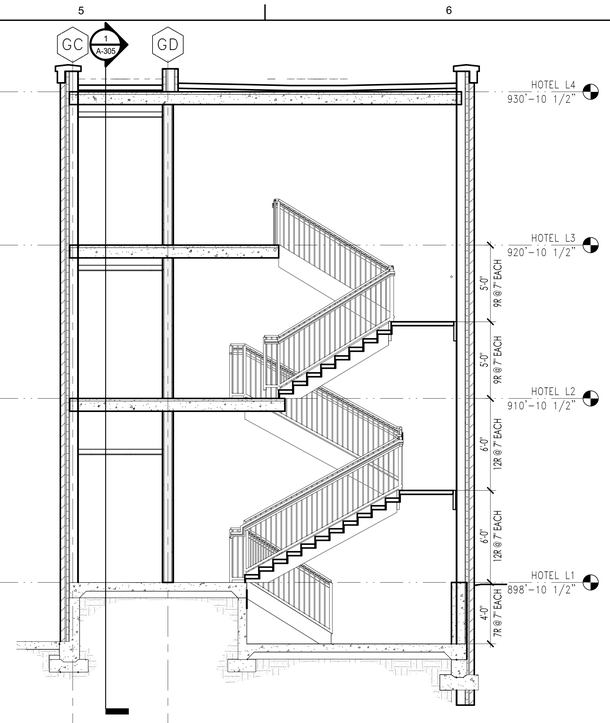
NORTH STAIR - LEVEL 2

3 A-701 SCALE: 1/4" = 1'-0"



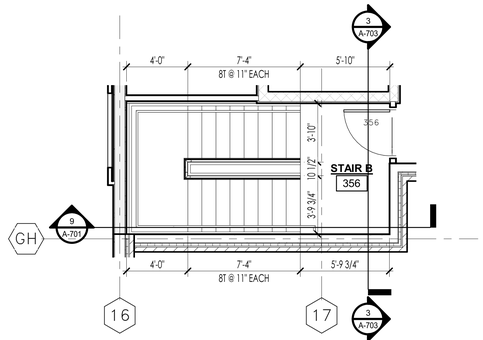
NORTH STAIR - LEVEL 3

4 A-701 SCALE: 1/4" = 1'-0"



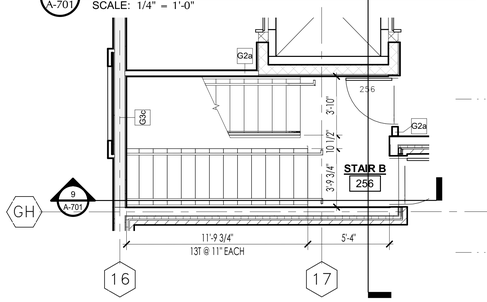
NORTH STAIR - SECTION

5 A-701 SCALE: 1/4" = 1'-0"



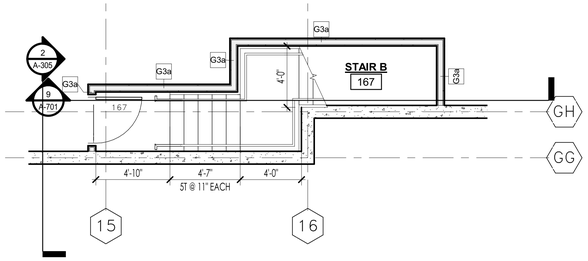
SOUTH STAIR LEVEL 3

8 A-701 SCALE: 1/4" = 1'-0"



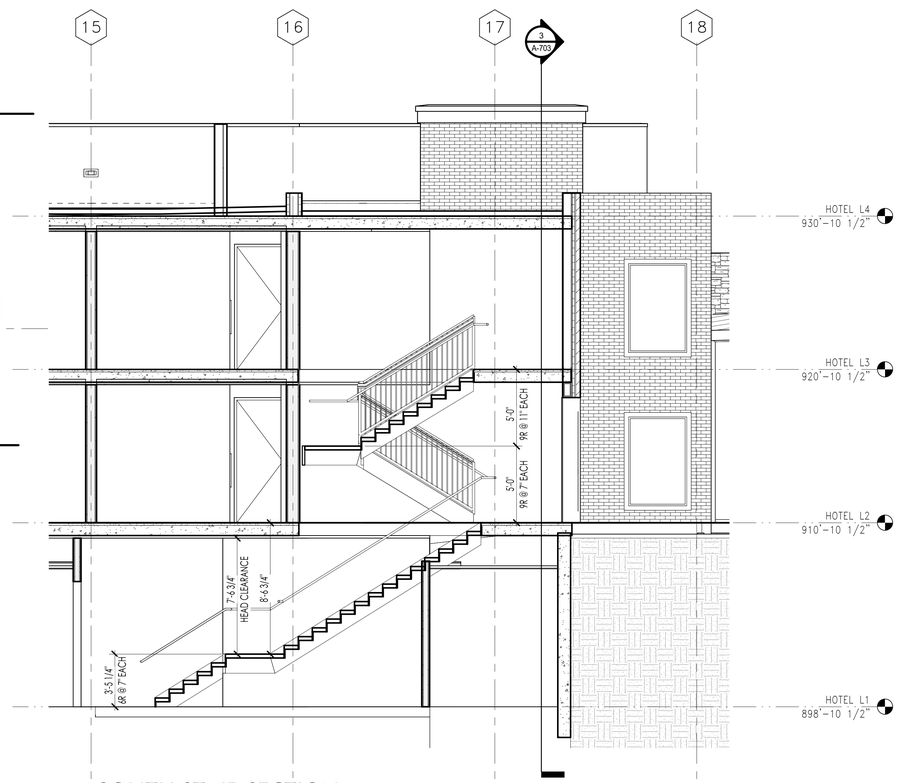
SOUTH STAIR LEVEL 2

6 A-701 SCALE: 1/4" = 1'-0"



SOUTH STAIR LEVEL 1

7 A-701 SCALE: 1/4" = 1'-0"



SOUTH STAIR SECTION

9 A-701 SCALE: 1/4" = 1'-0"

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HARTNESS DEVELOPMENT
HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
HOTEL STAIR PLANS

A-701
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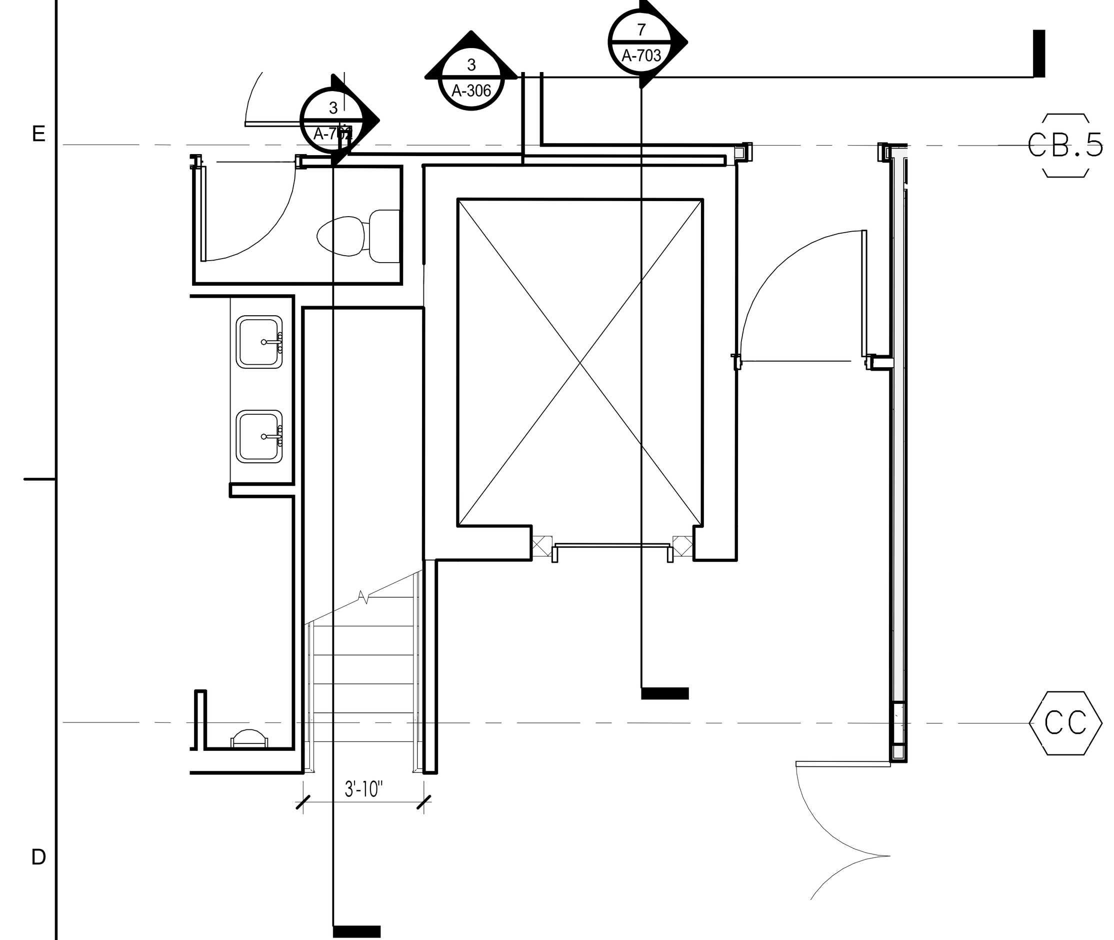
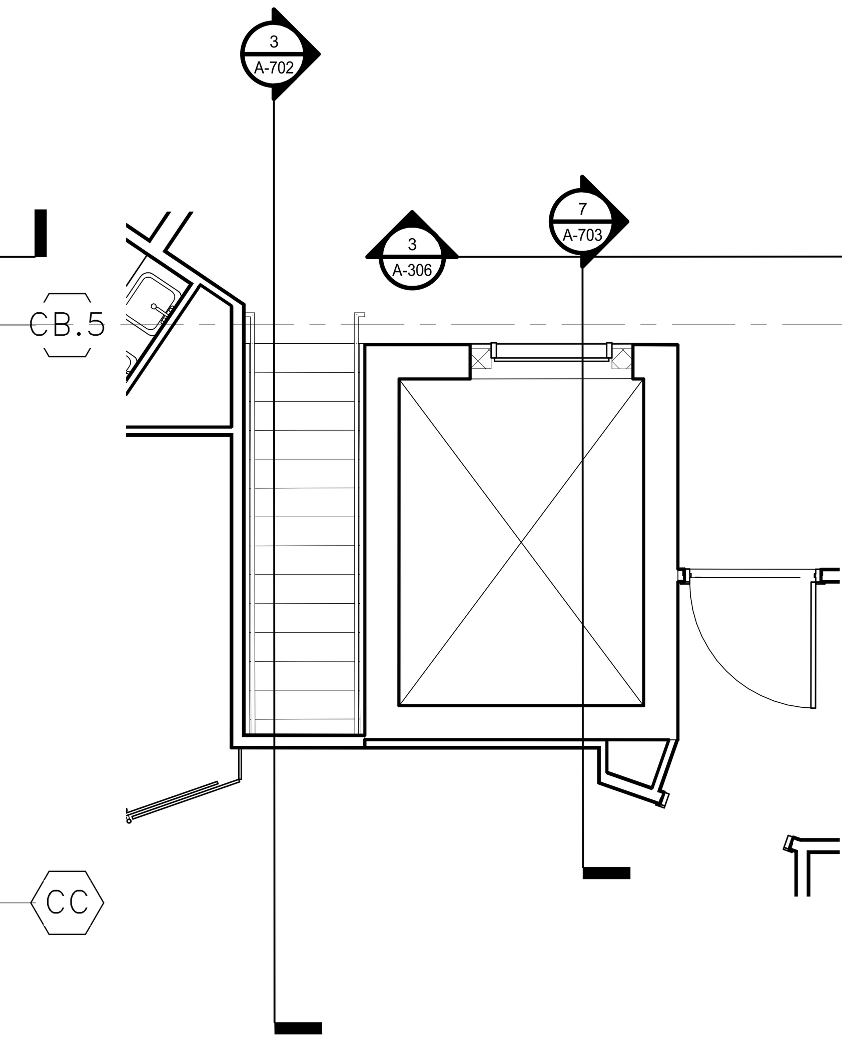
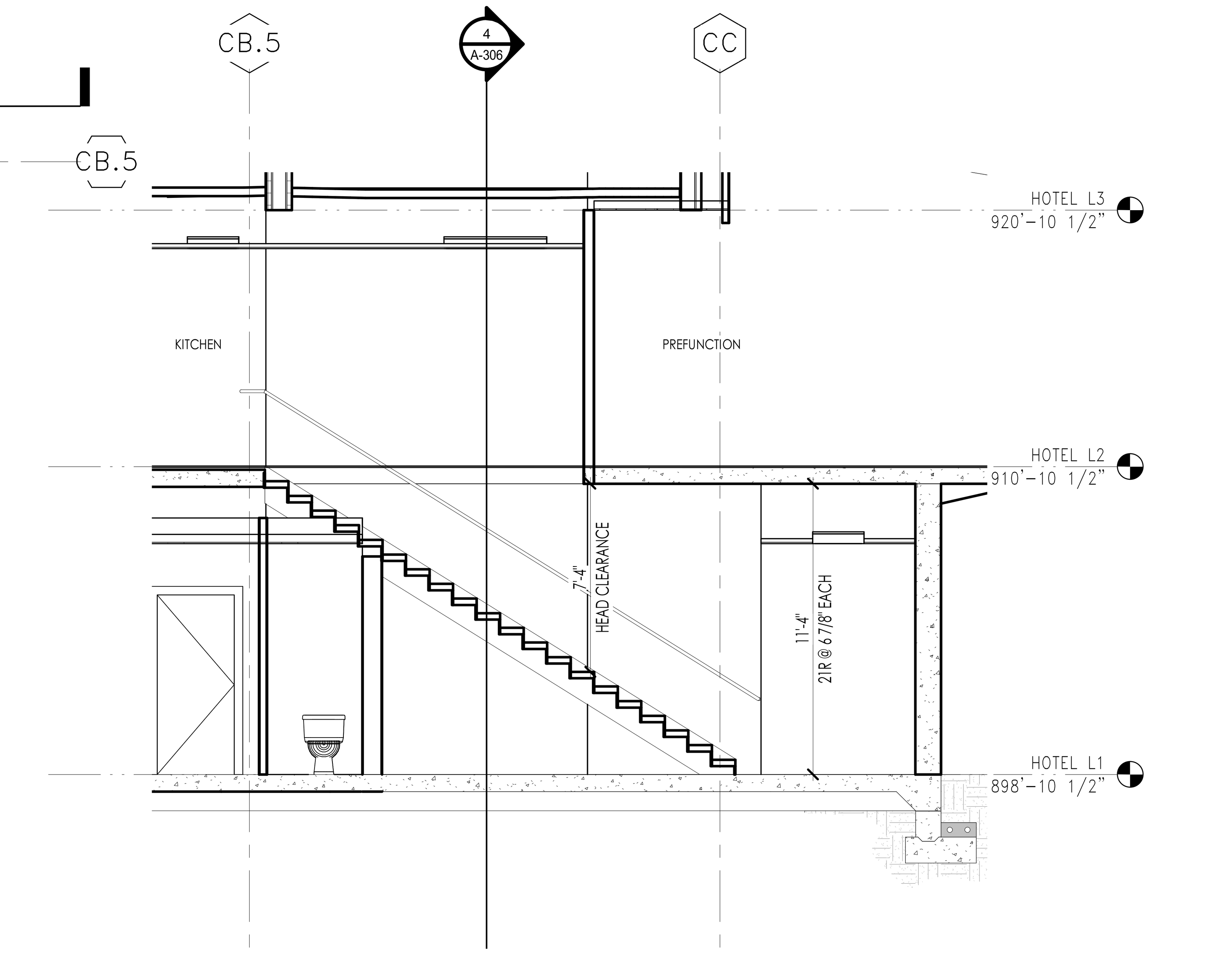


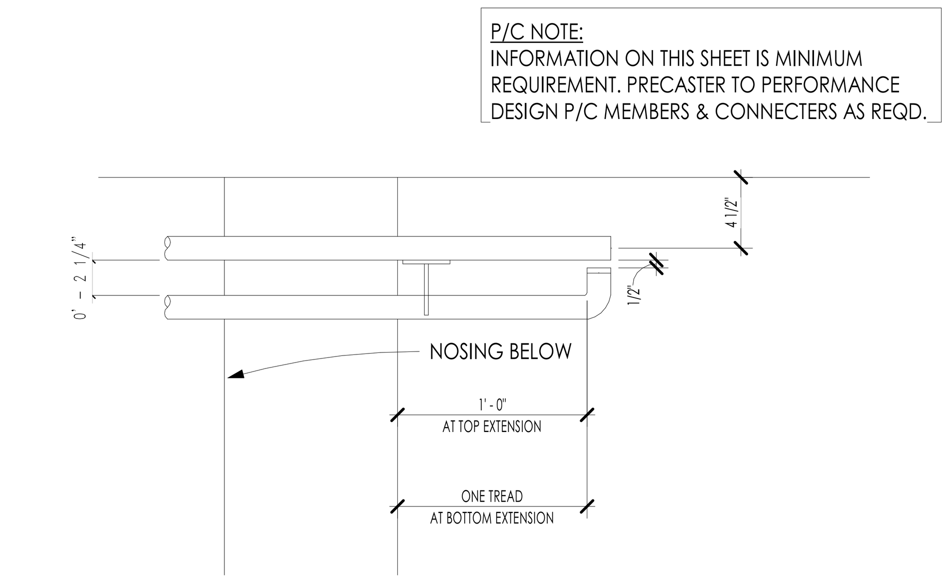
1 A-702 BALLROOM SERVICE STAIR - LEVEL 1
SCALE: 1/4" = 1'-0"



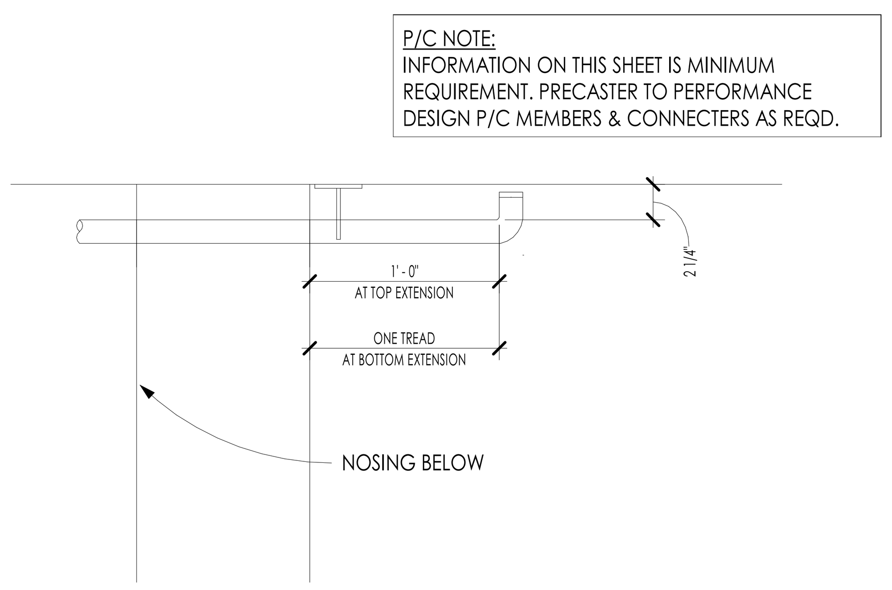
2 A-702 BALLROOM SERVICE STAIR - LEVEL 2
SCALE: 1/4" = 1'-0"



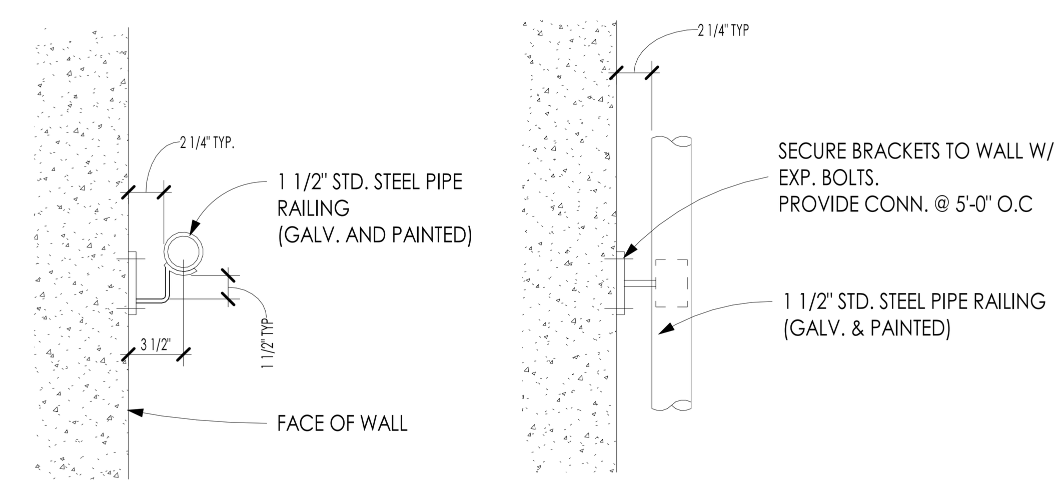
3 A-702 BALLROOM SERVICE STAIR - SECTION
SCALE: 1/4" = 1'-0"



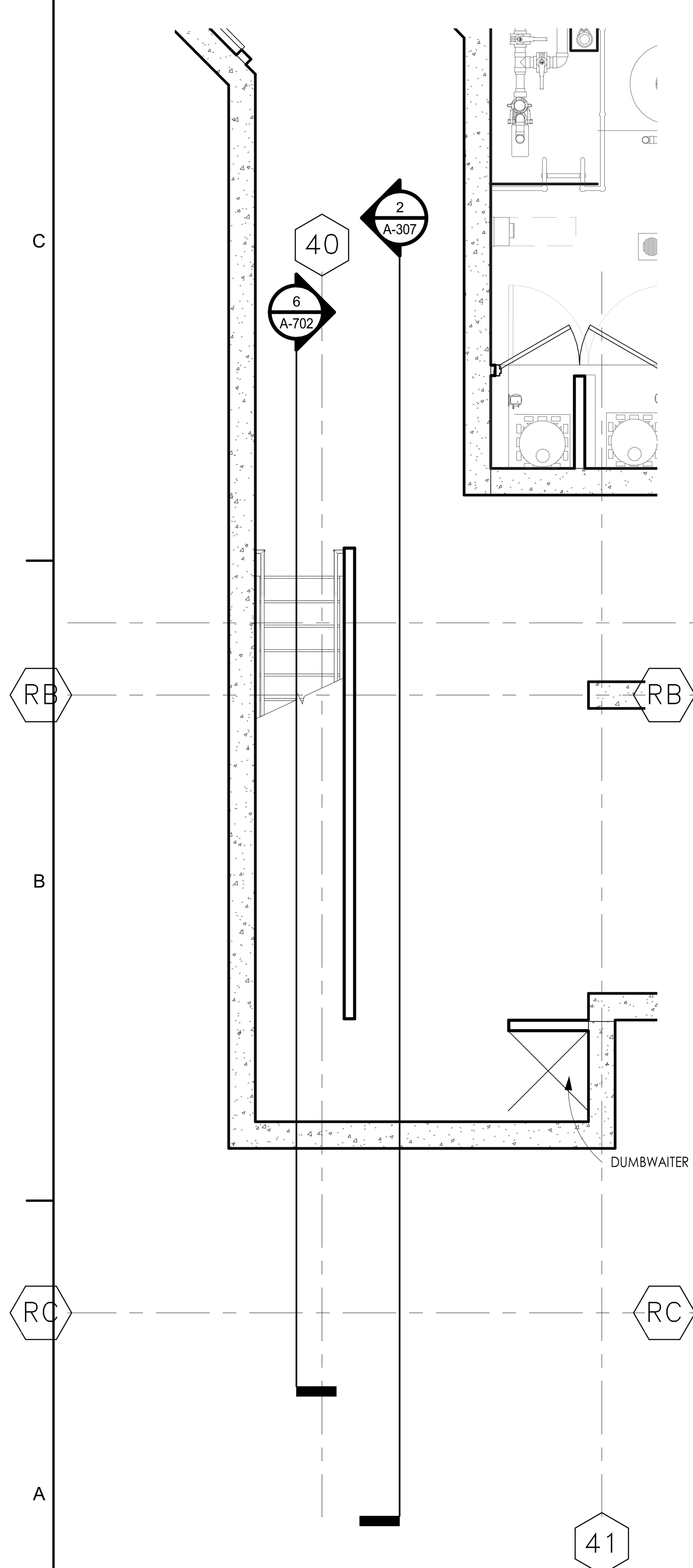
9 A-702 HANDRAIL EXTENSION DETAIL
SCALE: 1 1/2" = 1'-0"



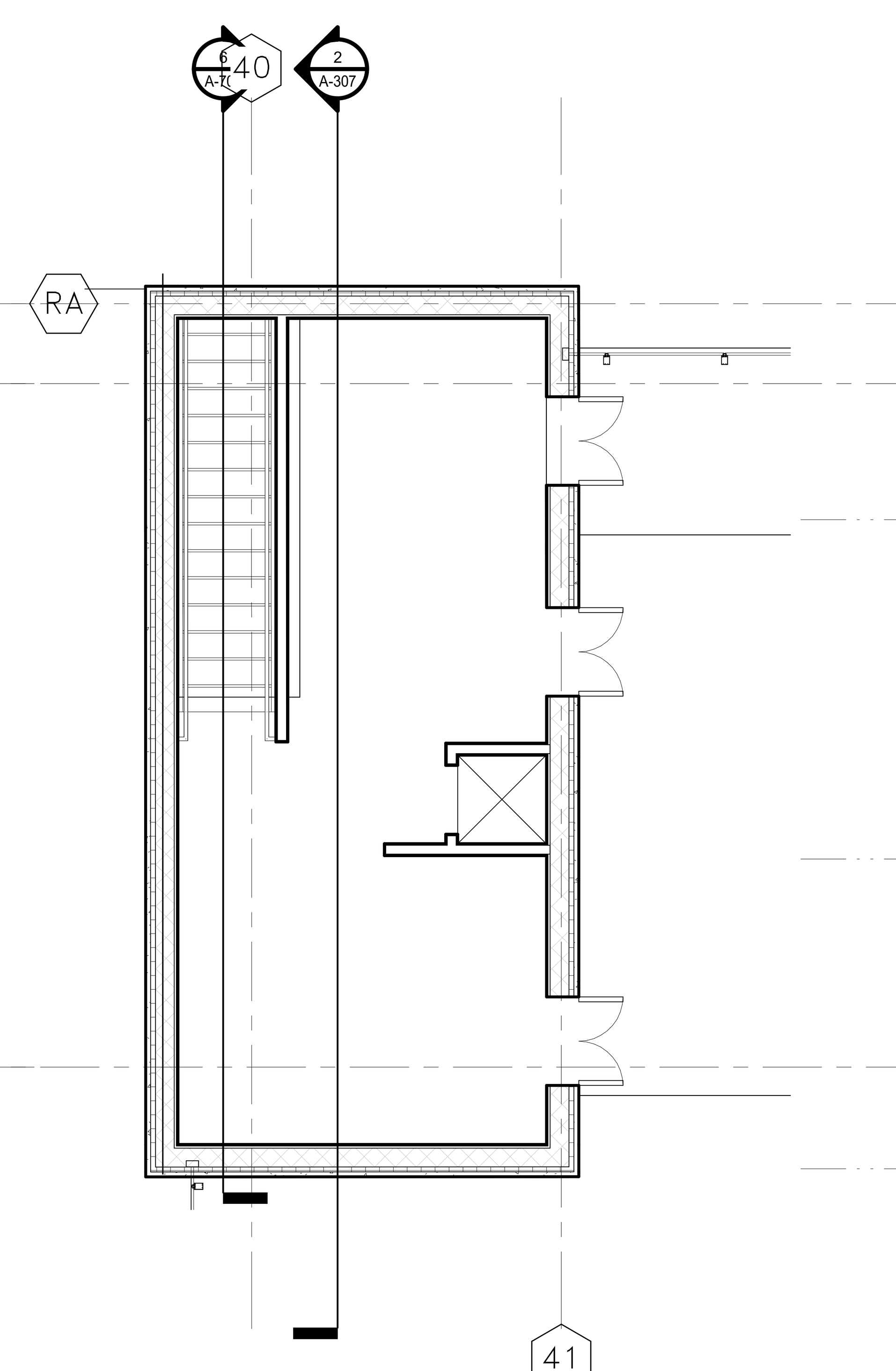
8 A-702 HANDRAIL EXTENSION @ WALL DETAIL
SCALE: 1 1/2" = 1'-0"



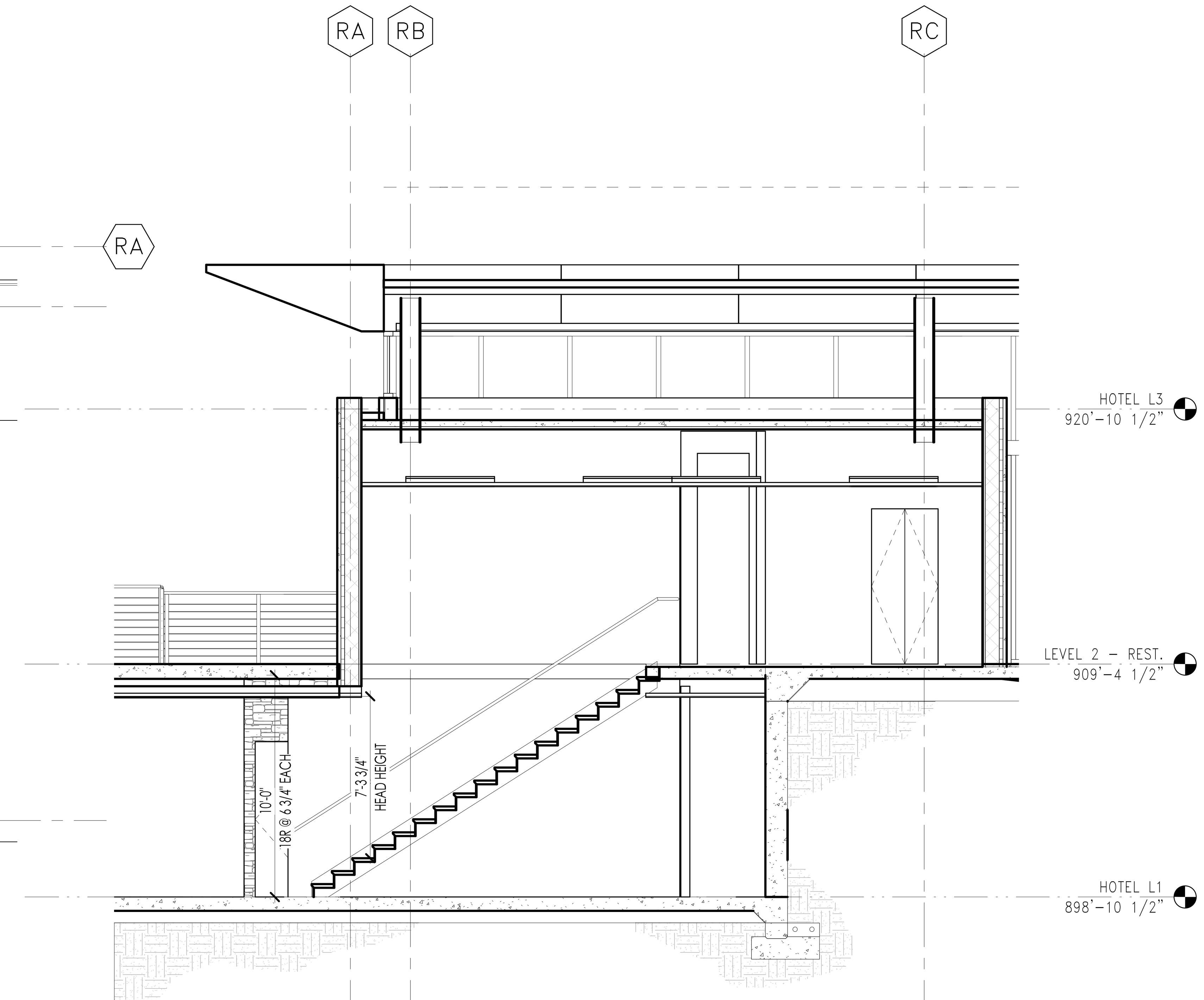
10 A-702 HANDRAIL WALL MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



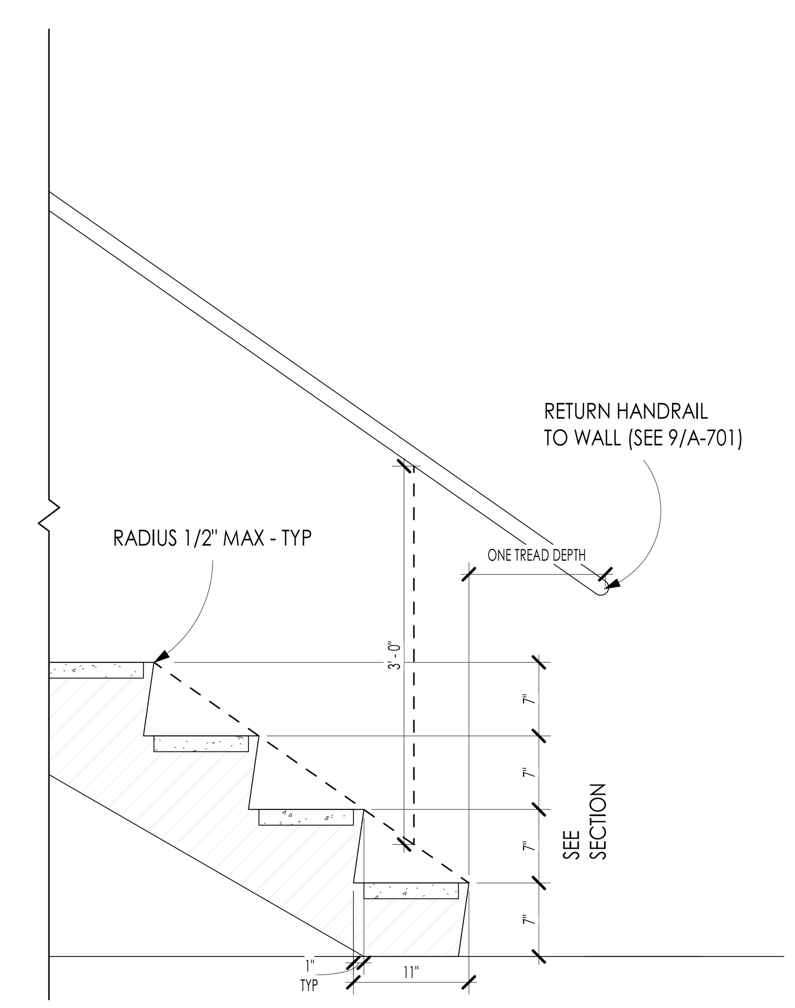
4 A-702 RESTAURANT SERVICE STAIR - LEVEL 1
SCALE: 1/4" = 1'-0"



5 A-702 RESTAURANT SERVICE STAIR - LEVEL 2
SCALE: 1/4" = 1'-0"



6 A-702 RESTAURANT SERVICE STAIR - SECTION
SCALE: 1/4" = 1'-0"



7 A-702 DETAIL - STEEL/CONC. STAIR LANDING - TYP.
SCALE: 1" = 1'-0"

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HOTEL HARTNESS

Project Number: 1801.01

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Sheet Title
SERVICE STAIRS

A-702
Sheet Number

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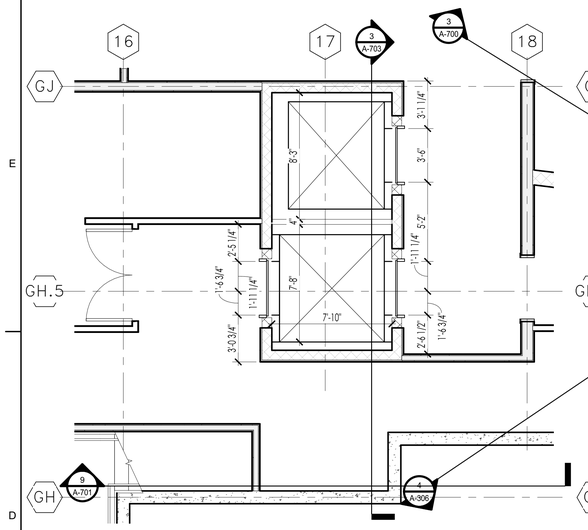
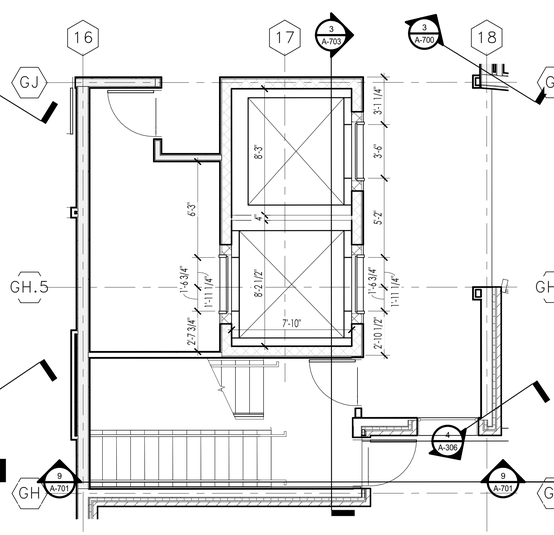


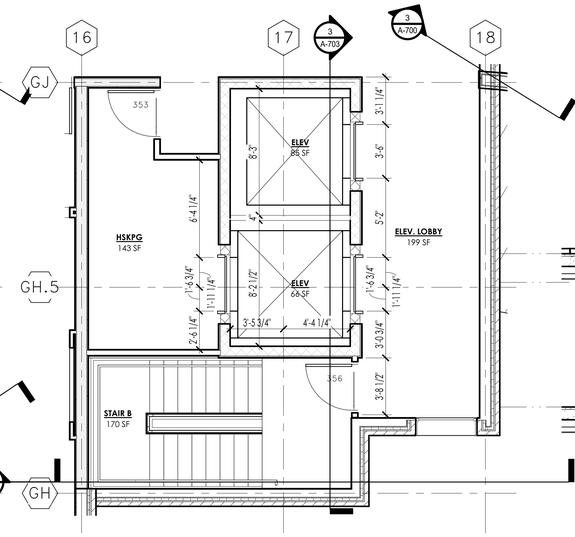
HOTEL ELEVATORS - LEVEL 1

1 A-703 SCALE: 1/4" = 1'-0"



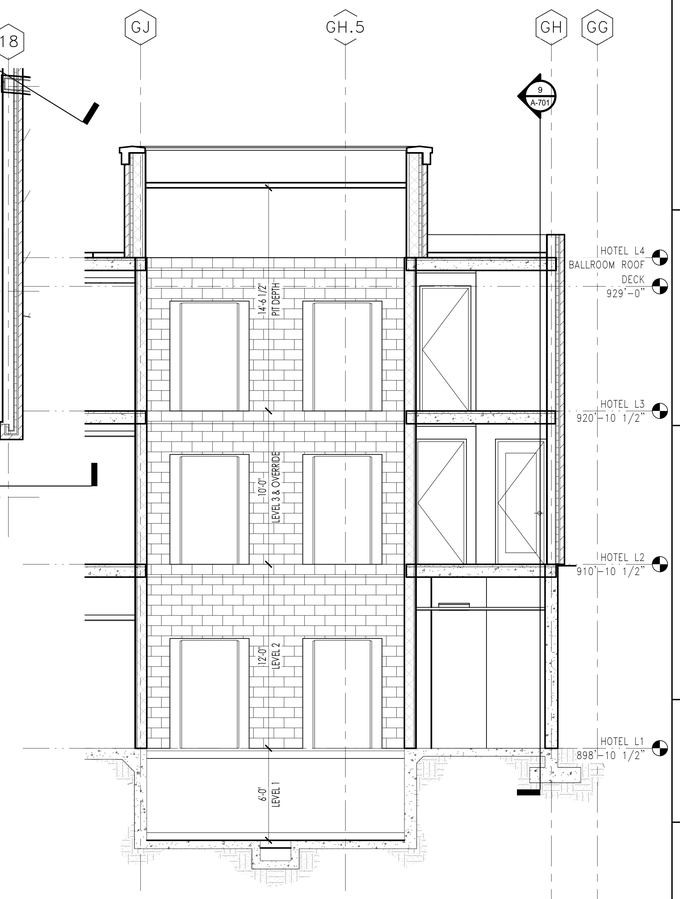
HOTEL ELEVATORS - LEVEL 2

2 A-703 SCALE: 1/4" = 1'-0"



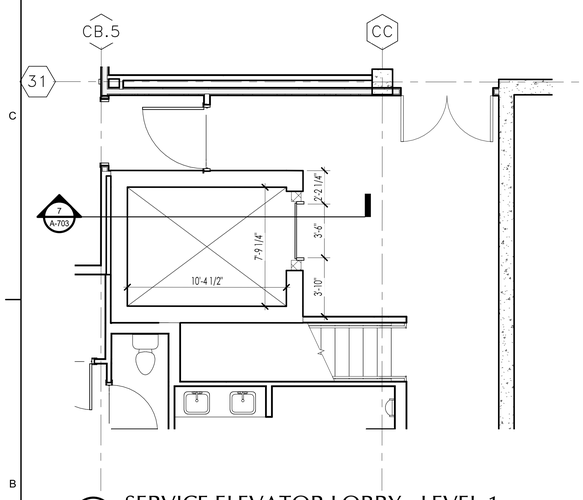
HOTEL HARTNESS ELEV. LOBBY PLAN - LEVEL 3

4 A-703 SCALE: 1/4" = 1'-0"



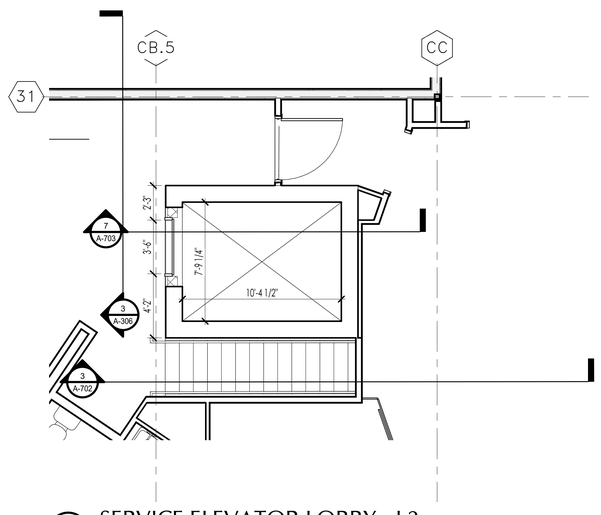
HOTEL ELEVATORS - SECTION

3 A-703 SCALE: 1/4" = 1'-0"



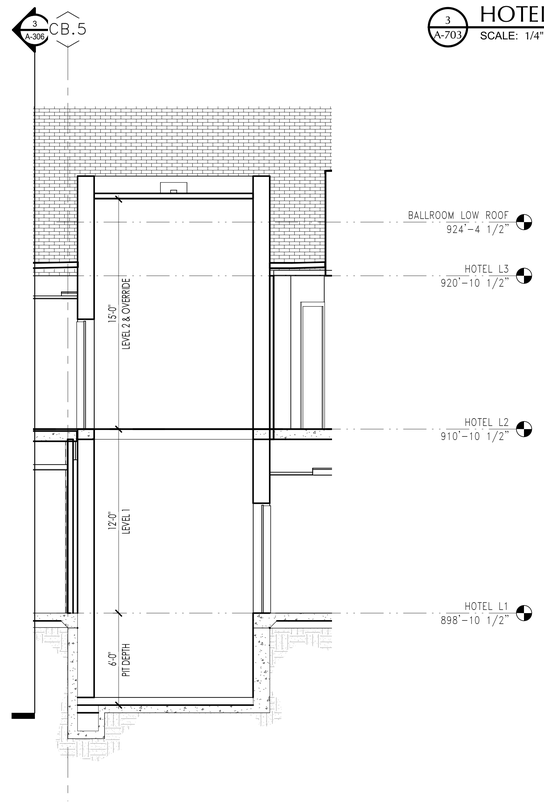
SERVICE ELEVATOR LOBBY - LEVEL 1

5 A-703 SCALE: 1/4" = 1'-0"



SERVICE ELEVATOR LOBBY - L2

6 A-703 SCALE: 1/4" = 1'-0"



BALLROOM ELEVATOR - SECTION

7 A-703 SCALE: 1/4" = 1'-0"

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HOTEL HARTNESS

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Sheet Title
ELEVATORS

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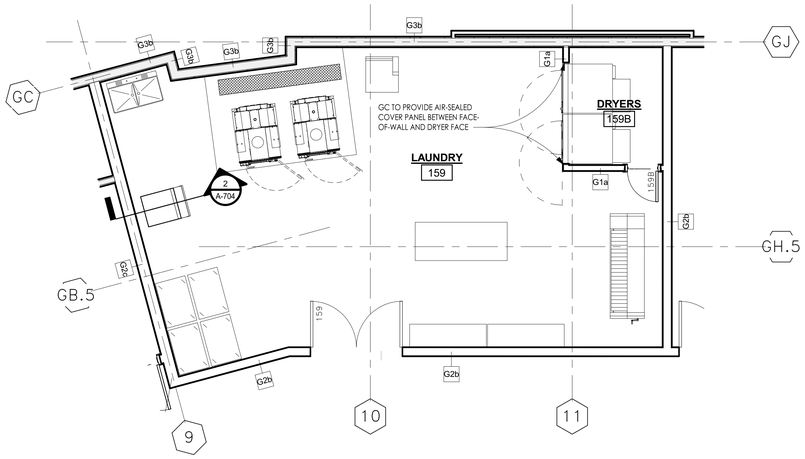
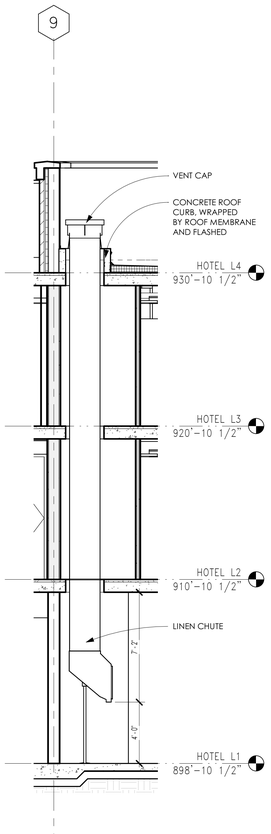


1 A-704 LAUNDRY ROOM ENLARGED PLAN

SCALE: 1/4" = 1'-0"



2 A-704 LINEN CHUTE SECTION

SCALE: 1/4" = 1'-0"

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