

STRUCTURAL LOADS AND DELEGATED DESIGN:

- THE LOADS ILLUSTRATED HEREIN SUMMARIZE THE LOAD CASES ANALYZED FOR THE GARAGE SUPERSTRUCTURE, INCLUSIVE OF THE OFFICE AND HOTEL TOWERS.
- THE LOADS SHOWN ARE INCLUSIVE OF LOADS IMPARTED ON THE TOP OF THE PILE CAP AND MAT FOUNDATIONS, INCLUDING RETAINING WALLS AND ELEVATOR EQUIPMENT. GRAVITY AND LATERAL LOADS ARE PROVIDED. THE CONTROLLING LATERAL LOADS (SEISMIC) ARE PROVIDED. THE LOADS PROVIDED SHALL BE COMBINED PER NC BUILDING CODE AND ACI 318 LOAD COMBINATIONS FOR PILE AND CAP/MAT DESIGN.
- THE SELF WEIGHT OF CAPS OR PILES HAVE NOT BEEN INCLUDED.
- THE PILE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THE DELEGATED DESIGN SCOPE ASSOCIATED WITH THE FOUNDATION ELEMENTS (ALL ELEMENTS BELOW BOTTOM OF COLUMN/SHAEARWALL. THE DELEGATED DESIGN SCOPE DOES NOT INCLUDE ANY SHALLOW STRIP FOOTINGS OR GRADE BEAMS THAT ARE NOT PILE-SUPPORTED; DETAILS FOR THOSE ELEMENTS ARE INCLUDED HEREIN.
- THE CONTRACTOR'S DELEGATED DESIGN ENGINEER SHALL PROVIDE A SEALED SUBMITTAL ILLUSTRATING THE STRUCTURAL DESIGN AND CONSTRUCTION DETAILS FOR THE PILES AND CAP/MAT ELEMENTS.
- WHERE SIZES, DIMENSIONS, REINFORCING, AND LOCATIONS OF FOUNDATION ELEMENTS ARE ILLUSTRATED HEREIN THEY SHALL BE CONSTRUED AS DESIGN INTENT, BUT SHALL NOT TAKE PRECEDENT OVER THE DESIGNS PROVIDED BY THE DELEGATED DESIGN ENGINEER. ANY CHANGES TO THE TOP OF CAP/MAT ELEVATIONS SHALL BE SUBJECT TO REVIEW BY CIVIL AND STRUCTURAL ENGINEERS.
- REFER TO THE ACIP SPECIFICATION FOR ADDITIONAL INFORMATION.

MAT MARK	1.0 WIND				0.7 EQ				AXIAL		
	E-W		N-S		E-W		N-S		DEAD	LIVE	D + L
	V (KIP)	M (KIP'FT)	V (KIP)	M (KIP'FT)	V (KIP)	M (KIP'FT)	V (KIP)	M (KIP'FT)			
STAIR 1/ELEV	290	28450	DOES NOT CONTROL DESIGN	DOES NOT CONTROL DESIGN	310	32360	190	5600	5600	775	6375
STAIR 2	250	16940			110	4980	100	2750	475	3225	
STAIR 3	250	17440			100	5270	120	3500	975	4475	
STAIR 4/ELEV	250	26970			310	38440	210	6025	1150	7175	

* MAT FOUNDATIONS SUPPORTING ELEVATORS SHALL CONSIDER ADDITIONAL 85 KIPS PER ELEVATOR CAB.

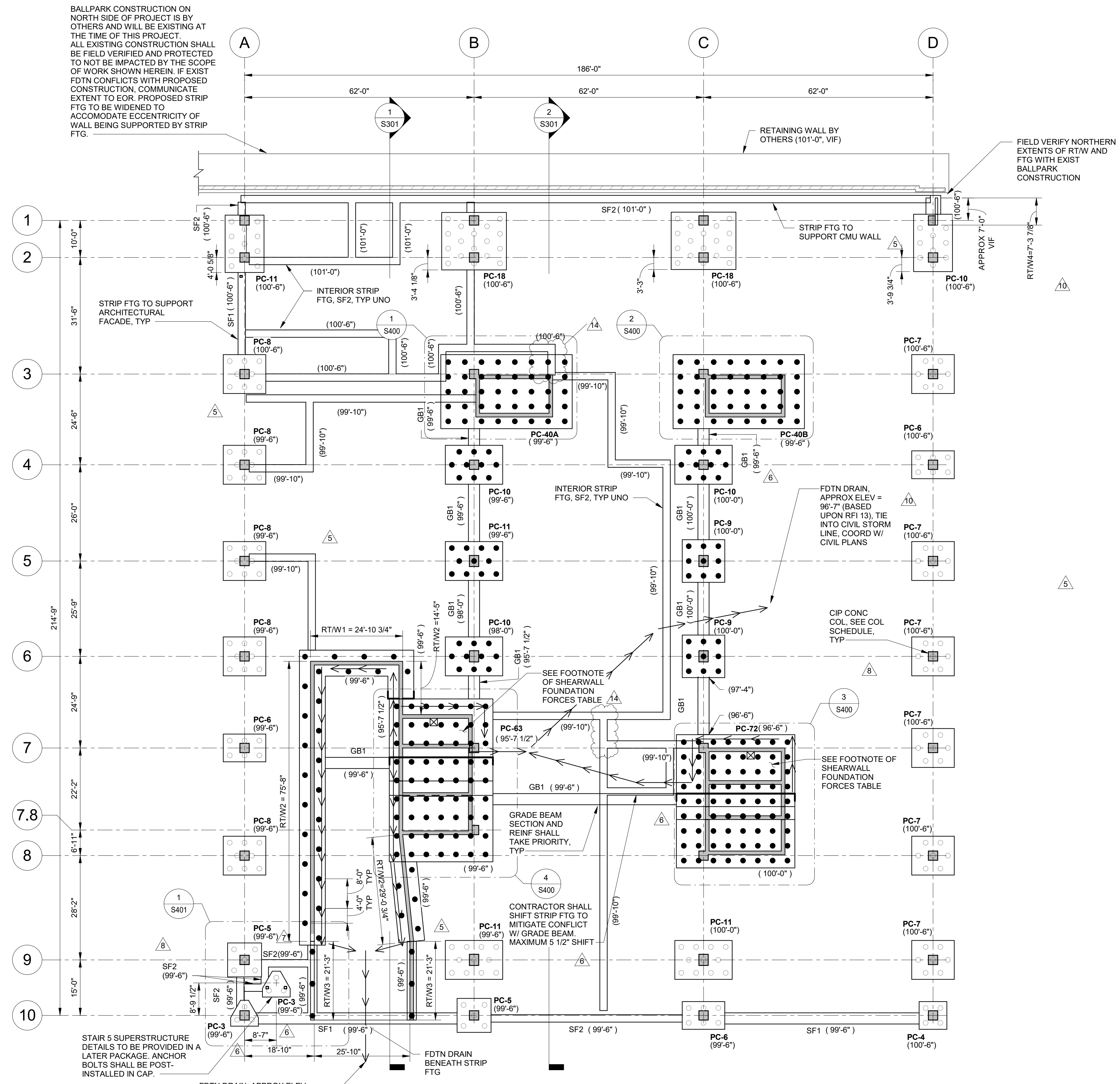
COLUMN FOUNDATION FORCES			
COL MARK	DEAD (KIP)	LIVE (KIP)	TOTAL (KIP)
A-9	925	175	1100
A-8	1425	250	1675
A-7	1075	250	1325
A-6	1300	300	1600
A-5	1400	300	1700
A-4	1300	300	1600
A-3	1475	325	1800
A-2	1225	225	1450
D-9	1200	200	1400
D-8	1300	200	1500
D-7	1200	200	1400
D-6	1200	200	1400
D-5	1200	200	1400
D-4	1100	200	1300
D-3	1300	200	1500
D-2	1150	200	1350
B-9	2175	325	2500
B-7.8	850	150	1000
B-7	650	100	750
B-6	1700	400	2100
B-5	1900	450	2350
B-4	1750	450	2200
B-3	900	200	1100
B-2	1825	425	2250
C-9	2100	350	2450
C-8	850	150	1000
C-7	725	175	900
C-6	1700	350	2050
C-5	1700	350	2050
C-4	1750	350	2100
C-3	1125	300	1425
C-2	1800	400	2200
A-1	750	100	850
B-1	1575	200	1775
C-1	1625	175	1800
D-1	800	75	875
A-10	525	100	625
B-10	950	125	1075
C-10	1275	150	1425
D-10	800	125	925

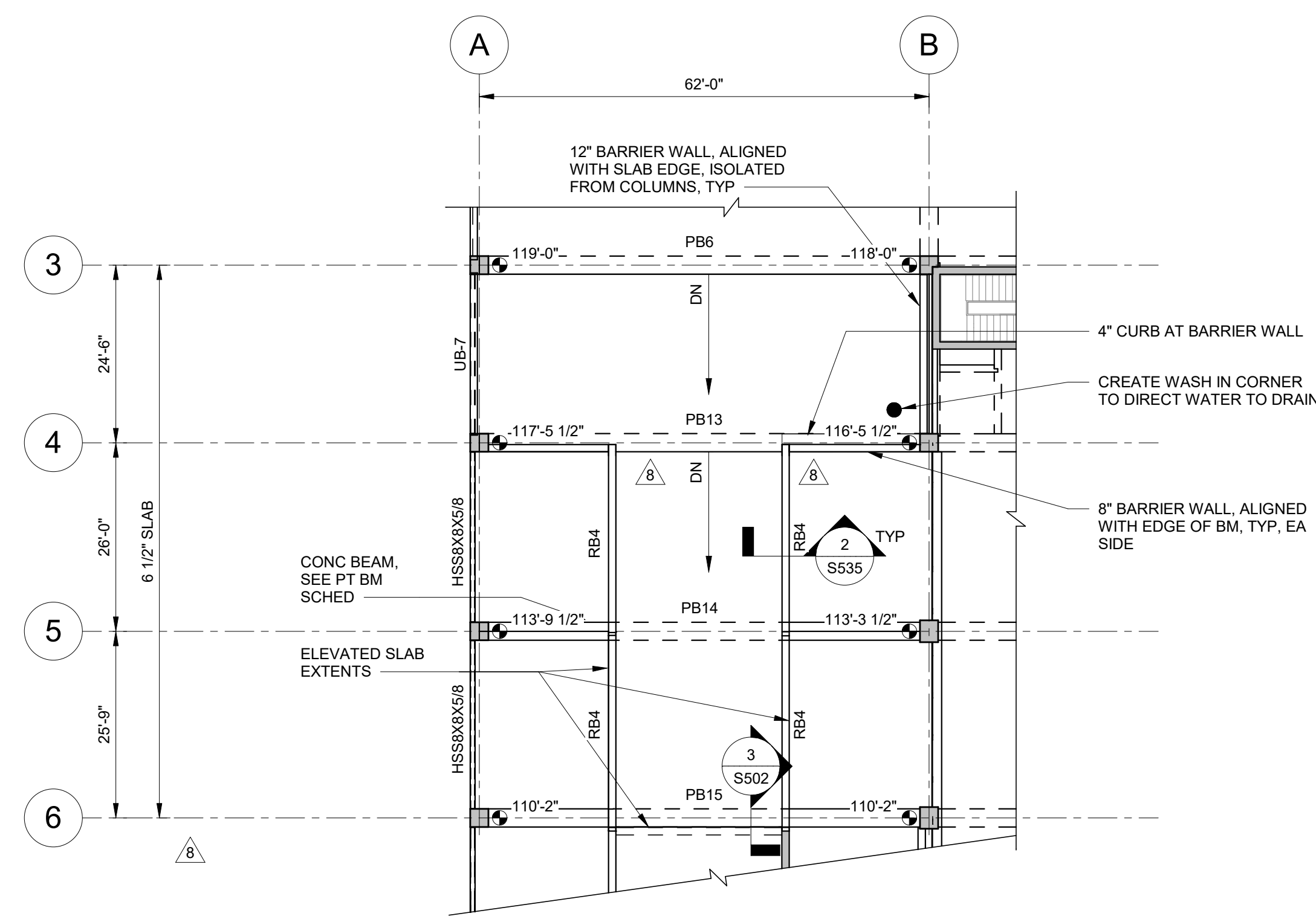
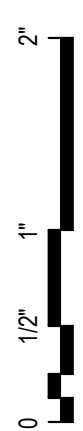
NOTES:

- COMPLY WITH SPECIFICATIONS AND STRUCTURAL GENERAL NOTES. UNLESS OTHERWISE SPECIFIED, THE FOLLOWING NOTES RELATING TO THE FOUNDATION PLAN SHALL GOVERN.
- REFER TO CIVIL, PLUMBING, MECHANICAL, FIRE PROTECTION, AND ELECTRICAL PLANS FOR LOCATIONS AND SIZES OF OPENINGS THROUGH CIP CONCRETE AND ALL NECESSARY EMBEDDED ITEMS AS REQUIRED.
- FOUNDATIONS SHALL BE CENTERED ON COLUMN GRID LINES (EG COLUMNS, WALLS, ETC.) UNLESS NOTED OTHERWISE.
- FILL ALL CMU BELOW GRADE WITH 3,000 PSI STRENGTH GROUT.
- REFER TO CIVIL PLANS FOR PROPERTY LINES AND LOCATION OF PARKING DECK.
- WHERE SHOWN, BUT NOT SPECIFICALLY NOTED, PROVIDE STANDARD ACI 90 DEGREE OR 180 DEGREE HOOKS, AS APPLICABLE, TO REBAR.
- FOUNDATION AND RETAINING WALL DESIGN ARE BASED ON GEOTECHNICAL ENGINEERING INFORMATION PROVIDED BY FROELING & ROBERTSON, INC (F&R PROJ #68U-012-0001) DATED SEPTEMBER 18, 2017.
 - DEEP FOUNDATION ELEMENTS SHALL BE 16" Ø AUGER CAST FULL OR PARTIAL DISPLACEMENT CONCRETE PILES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PILE FOUNDATIONS THAT CAN ACHIEVE THE ALLOWABLE DESIGN CAPACITIES BELOW. DESIGN CAPACITIES SHALL BE VERIFIED BY FIELD TESTING AND ENGINEERING LETTER PROVIDED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
 - 4.5 TONS TRAILING PILE (IN MAT FOUNDATIONS)
 - INDIVIDUAL PILE DESIGN CAPACITY IS BASED ON THE FOLLOWING ALLOWABLE LOADS:
 - 120 TONS AXIAL COMPRESSION
 - 37 TONS AXIAL UPLIFT (TENSION)
 - 8 TONS (LATERAL) ON AN INDIVIDUAL PILE
 - RETAINING WALL DESIGN IS BASED ON THE FOLLOWING:
 - SOIL DENSITY = 125 PCF (MOIST)
 - ACTIVE EARTH PRESSURE COEFFICIENT = 0.35
 - AT-REST EARTH PRESSURE COEFFICIENT = 0.50
 - PASSIVE EARTH PRESSURE COEFFICIENT = 1.5
- RETAINING WALL BACKFILL REQUIREMENTS:
 - WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT ADEQUATE BRACING UNTIL WALLS HAVE REACHED 100% OF SPECIFIED CONCRETE STRENGTH AND BACKFILL IS PLACED TO TOP OF FOOTING ON TOE SIDE.
 - SELECT AND PLACE POROUS BACKFILL (MCDOT NO. 57) AT RETAINING WALLS CAREFULLY BY HAND OPERATED EQUIPMENT ONLY, WITHIN A DISTANCE EQUAL TO 5-FT FROM THE WALL.
 - WALLS SPECIFIED TO HAVE BACKFILL ON BOTH SIDES SHALL NOT HAVE A DIFFERENTIAL OF MORE THAN 2'-0" UNTIL THE SPECIFIED ELEVATION IS REACHED ON THE TOE SIDE.
- FOR CONCRETE WALL JOINTS:
 - PROVIDE VERTICAL FORMED CONTROL JOINTS IN THE CIP RETAINING WALLS. LOCATE CONTROL JOINTS AS FOLLOWS:
 - AT EACH FOOTING STEP
 - WITHIN 5' - 10' OF EACH CORNER
 - NO FURTHER THAN 15'-0" MAXIMUM ON CENTER
 - CUT EVERY OTHER HORIZONTAL BAR AT CONTROL JOINT LOCATIONS EXCEPT TOP AND BOTTOM BARS. PROVIDE A "Y" JOINT ON ONE SIDE OF THE WALL (NON-FORMLINER SIDE) AT EACH CONTROL JOINT LOCATION.
 - WALL CONSTRUCTION JOINTS SHALL BE LOCATED AT CONTROL JOINT LOCATIONS.
- RETAINING WALL FOOTINGS SHALL BE POURED MONOLITHICALLY WITH PILE CAPS WITH TOP AND BOTTOM WALL FOOTING REINFORCING CONTINUOUS THROUGH PILE CAPS. IF TOP LAYER REINFORCING CONFLICT OCCURS BETWEEN WALL FOOTING AND PILE CAP, THE GREATER TOP LAYER REINFORCING WILL TAKE PRIORITY.
- PROVIDE CLASS 3 BARS FOR ALL REBAR SPICES RELATING TO FOUNDATION WORK UNLESS NOTED OTHERWISE. REFER TO OTHER STRUCTURAL SHEETS FOR SPICES RELATING TO OTHER STRUCTURAL DRAWINGS.
- REFER TO SPECIFICATION FOR MASS CONCRETE POUR.
- COORDINATE LOCATION OF CMU WALLS WITH SLAB-ON-GRADE PLAN. DOWELS MAY BE CAST INTO PILE CAPS OR POST-INSTALLED AT CONTRACTOR'S OPTION.
- CONTRACTOR MAY ADJUST TOP OF STRIP FOOTINGS SUPPORTING CMU WALLS TO FACILITATE BLOCK COURSING IF DESIRED. IF ELEVATIONS ARE ADJUSTED, IT SHALL NOT IMPACT THE SLAB CONSTRUCTION OR ANY ITEMS EMBEDDED IN SLAB BY ARCH OR MEP.

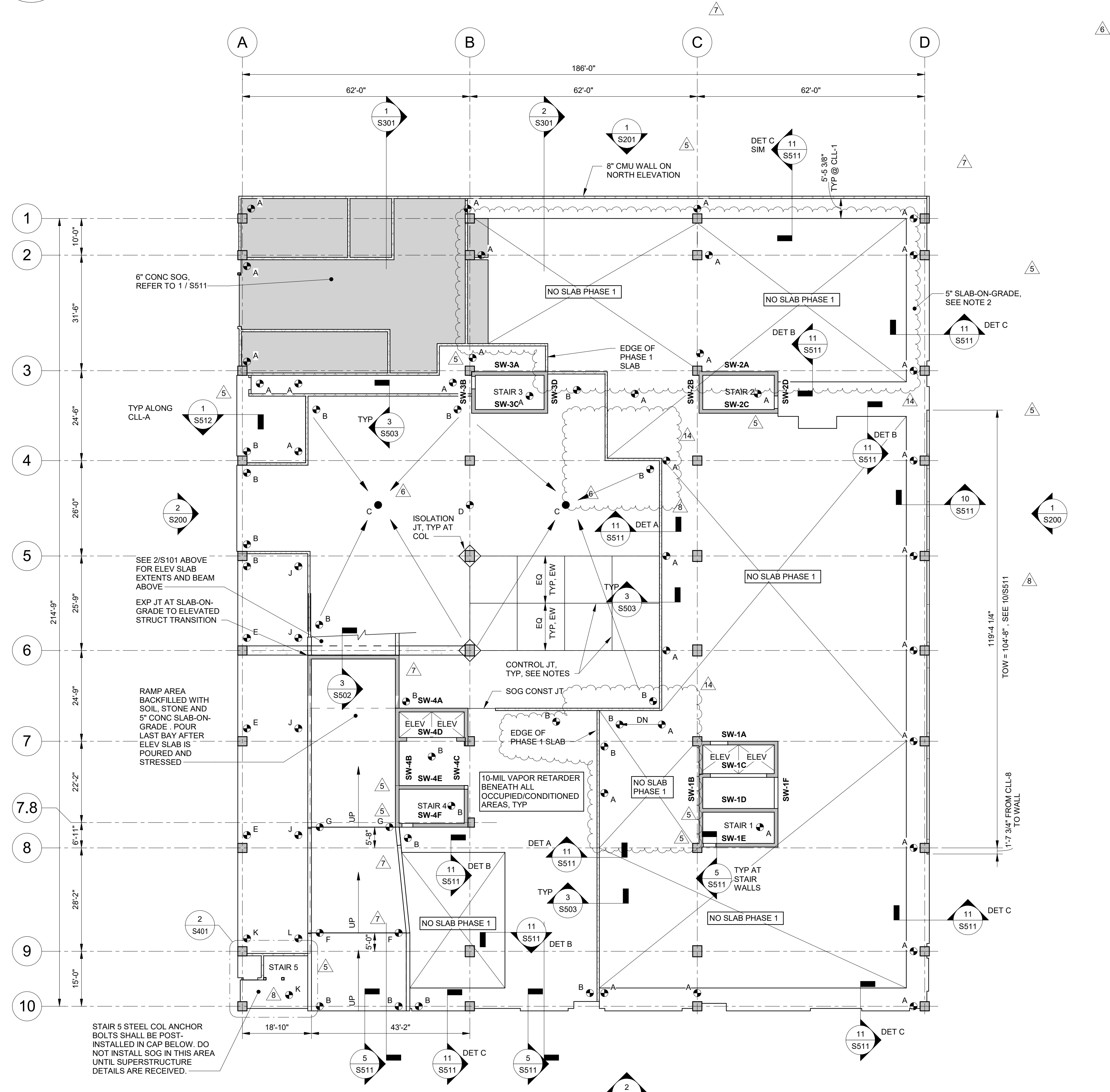
LEGEND:

- PC-3 (100'-6") DENOTES CIP CONCRETE PILE CAP, TYPE 3, REFER TO S500. ABSOLUTE TOP OF PILE CAP ELEVATION AS SHOWN.
- SF1 (99'-6") DENOTES CIP CONCRETE STRIP FOOTING, TYPE 1, WITH AN ABSOLUTE TOP OF FOOTING ELEVATION AS SHOWN, REFER TO 1/S503.
- RT/W1 DENOTES CIP CONCRETE RETAINING WALL NUMBER 1, REFER TO 1/S502.
- CIP CONCRETE COLUMN, SEE COLUMN SCHEDULE.
- 4" FOUNDATION DRAIN (APPROXIMATE LOCATION SHOWN ON FDTN PLAN), LOCATE PER TYP RT/W DETAIL.
- GB1 DENOTES CIP CONCRETE GRADE BEAM, GRADE BEAM, TYPE 1, SEE 8/S501.
- 16" Ø AUGER CAST FULL OR PARTIAL DISPLACEMENT PILE, AXIAL COMPRESSION ONLY.
- 16" Ø AUGER CAST FULL OR PARTIAL DISPLACEMENT PILE WITH LATERAL AND/OR UPLIFT LOAD IN ADDITION TO AXIAL COMPRESSION. FINAL NUMBER OF LATERAL PILES AND LOCATION OF LATERAL PILES TO BE CONFIRMED BY DELEGATED DESIGNER.





2 LEVEL P2 EXPRESS RAMP
S101 SCALE: 1/16" = 1'-0"



1 SLAB-ON-GRADE PLAN
S101 SCALE: 1/16" = 1'-0"

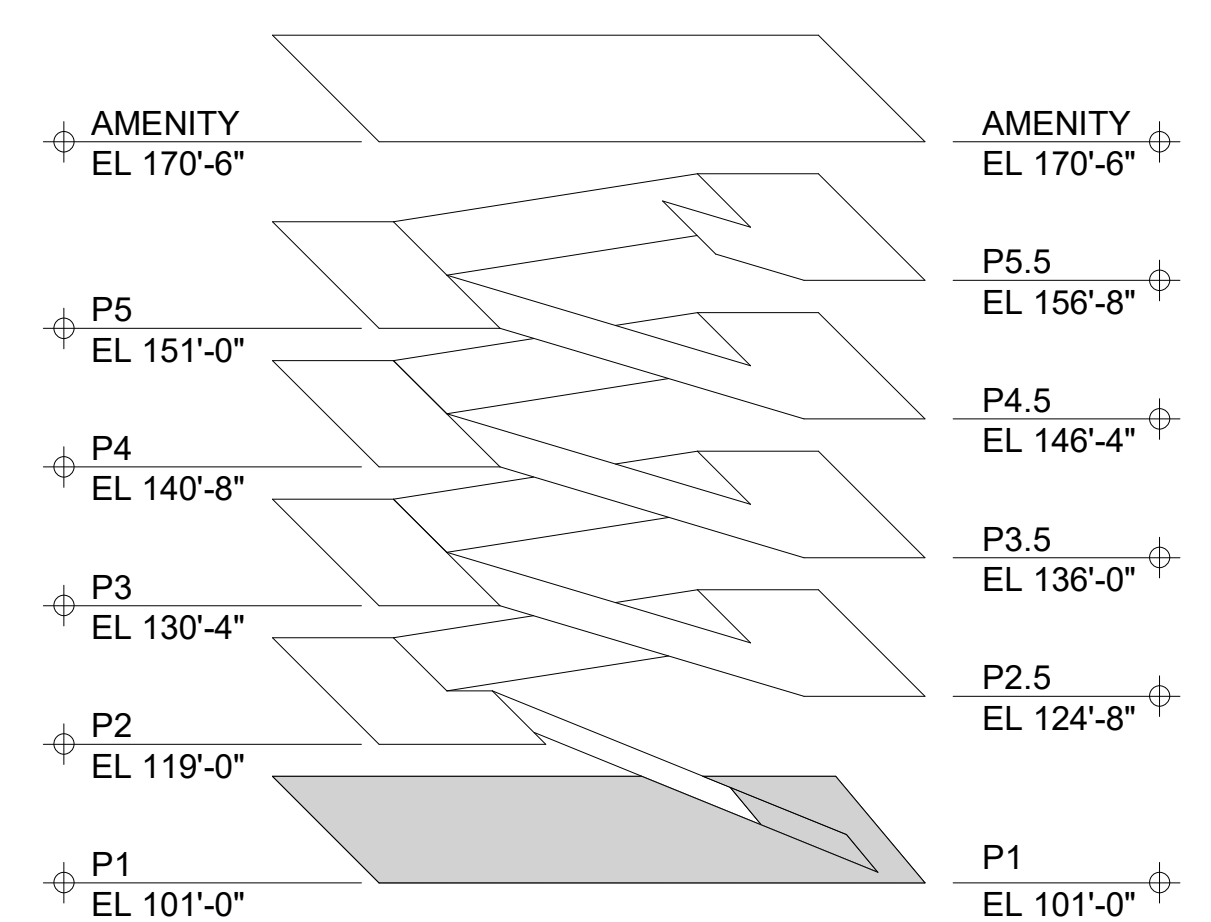
NOTES:

- COMPLY WITH SPECIFICATIONS AND THE GENERAL NOTES ON SHEET S001. UNLESS NOTED OTHERWISE, THE FOLLOWING NOTES RELATING TO THIS SHEET SHALL GOVERN.
- EXCEPT AS SHOWN OTHERWISE ON THIS PLAN, PROVIDE A UNIFORM 5" THICK SLAB-ON-GRADE CONSTRUCTED ON A MINIMUM OF 4" COMPACTED NCDOT NO. 57 STONE. REFER TO DETAILS ON S511.
- MINIMUM YIELD STRENGTH OF REINFORCEMENT TO BE AS FOLLOWS:
3.01 WELDED WIRE FABRIC: 65,000 PSI (ASTM-A185)
3.02 REBAR: 60,000 PSI (ASTM-A615)
- CONSTRUCTION PROCEDURE FOR THE SLAB-ON-GRADE SHALL BE BASED ON LINE STRIP CONSTRUCTION METHOD. SLAB SHALL BE PLACED WITH CONSTRUCTION JOINTS AS SHOWN. ANY DEVIATIONS SHALL BE SUBJECT TO ENGINEERS APPROVAL. ALL CONTROL JOINTS SHALL BE SAWED IN ACCORDANCE WITH THE SPECIFIC LOCATIONS SHOWN. CONTROL JOINTS SHALL FOLLOW THE DESIGN INTENT BELOW AND SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW.
A. CONTROL JOINT SPACING SHALL NOT EXCEED 36x SLAB THICKNESS.
B. SLAB PANEL ASPECT RATIOS SHALL NOT EXCEED 1.5 : 1.0.
- AT CONTRACTOR'S OPTION, CONTROL JOINTS MAY BE ELIMINATED IF A MINIMUM OF 1/2 % OF REINFORCING IS PROVIDED BASED UPON CROSS-SECTIONAL AREA OF THE SLAB (IN EA ORTHOGONAL DIRECTION).
- ANY DEVIATION FOR LOCATION OF CONSTRUCTION JOINTS IN SLAB-ON-GRADE THAN WHAT IS SHOWN SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
- PRIOR TO SLAB CONSTRUCTION, THE SUBGRADE SHALL BE EVALUATED BY PROOF ROLLING WITH AT LEAST TWO OVERLAPPING PASSES OF A LOADED TANDEM AXLE DUMP TRUCK (MINIMUM LOADED WEIGHT OF 20 TONS). A MINIMUM OF A 4 INCH THICK LAYER OF CRUSHED AGGREGATE BASE COURSE (NCDOT NO. 57) STONE SHALL BE PLACED AND COMPACTED TO AT LEAST 95% OF ITS MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY. REFER TO GEOTECH REPORT PROVIDED BY F&R, INC. DATED SEPTEMBER 18, 2017, AND GEOTECH ADDENDUM #1 PROVIDED BY F&R, INC. DATED MARCH 1, 2018.
- CONCRETE CURBS AND RAISED ISLANDS ARE NOT FULLY SHOWN ON SOG PLANS FOR CLARITY. REFER TO ARCH AND MEP PLANS FOR LOCATIONS AND EXTENTS.
- REFER TO PLUMBING PLANS FOR EXACT LOCATION OF FLOOR DRAINS.
- COORDINATE AREAS OF SLOPING FLOORS TO DRAINS WITH MEP PLANS IN SPECIFIC ROOMS, INCLUDING BUT NOT LIMITED TO, TRASH, FIRE PUMP, AND LOADING DOCK.
- CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCIES IN DRAINAGE INTENT ARE DISCOVERED.
- SEE CIVIL FOR GRADES TO MATCH AT VEHICULAR ENTRIES AND PEDESTRIAN ENTRIES.
- COORDINATE DOWEL REQUIREMENTS FOR CMU WALLS WITH TYP DETAILS. IF DOWELS ARE NOT CAST INTO FOUNDATION, THE DOWELS SHALL BE POST-INSTALLED INTO STRIP FOOTING, GRADE BEAM OR PILE CAP.
- COORDINATE SLAB RECESSES FOR FLOOR FINISHES WITH ARCH PLANS. USE DETAIL 7/S511 FOR RECESS. IF RECESS IS LESS THAN 1", THE DETAIL IS NOT REQUIRED AND MAY BE FORMED WITHIN SLAB THICKNESS. MAINTAIN 1" MIN TOP COVER AT RECESS.
- VAPOR BARRIER SHALL BE PROVIDED BENEATH ALL OCCUPIED AREA. WHERE RIBBON SLABS ARE PLACED IN PHASE 2 BUILD-OUT AREAS, THE VAPOR BARRIER SHALL BE PLACED UNDER SLAB WITH ENOUGH BARRIER EXTENDING OUT TO PROPERLY LAP ONTO AND EXTEND IN PHASE 2.

LEGEND:

- A DENOTES FLOOR DRAIN AT FFE MARK "A". REFER TO FFE TABLE.
- B DENOTES TOP OF SLAB-ON-GRADE FINISHED FLOOR MARK "B". REFER TO FFE TABLE.
- CIP CONCRETE COLUMN
- WALL LEGEND
■ CIP CONCRETE RETAINING WALL
■ CMU WALL, NOT ALL SHOWN, REF ARCH
- DENOTES FLOOR DRAINAGE SLOPE FROM HIGH TO LOW POINT.
- SW-#X DENOTES CIP CONCRETE SHEARWALL, REFER TO CORRESPONDING WALL ELEVATIONS ON S300 SERIES SHEETS.

SLAB-ON-GRADE FFE TABLE	
MARK	ELEVATION (FT)
A	102'-0"
B	101'-1 1/2" ⁶
C	100'-4 1/2"
D	100'-9"
E	101'-3 1/2"
F	101'-5"
G	103'-5"
H	110'-1"
J	101'-7"
K	101'-6"
L	101'-9"



LEVEL KEY

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RALEIGH, NC 27601
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SCOPE OF DOCUMENT
1. THIS DOCUMENT WITH THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS, DESCRIBES THE GENERAL SCOPE OF THE PROJECT AND DESIGN CONCEPT IN TERMS OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THESE DOCUMENTS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT.
2. ON THE BASIS OF THE SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL DETERMINE AND INCLUDE IN HIS PROPOSALS ALL ITEMS NECESSARY TO PROVIDE THE PROPER EXECUTION AND COMPLETION OF THE WORK.

STAMP
NORTH CAROLINA
SEAL
ENGINEER
JOSHUA W. GRIFFIN
2/19/2019
E

NUMBER	ISSUED FOR	DATE
14	ISSUED FOR PHASE 1 IFC ADDENDUM 1	2/20/2019
8	ISSUE FOR PHASE 1 CONSTRUCTION	9/7/2018
7	ISSUED FOR PRICING - PHASE 2	8/29/2018
6	ISSUE FOR PHASE 1 (POOL) PERMIT	7/17/2018
5	ISSUE FOR FOUNDATION PERMIT COMMENT RESPONSES	4/20/2018
4	ISSUE FOR PRICING	3/23/2018
3	ISSUE FOR FOUNDATION PERMIT	3/16/2018
1	PROGRESS SET FOR PARKING DECK GMP	3/1/2018

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ARCHITECTURE 935 W Chestnut St., Ste # 520
Chicago, IL 60642
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300 W. Adams Street, Suite 420, Chicago, IL 60606
POOL CONSULTANT
TBD
ACOUSTICAL CONSULTANT
TBD
PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301
SHEET TITLE
SLAB-ON-GRADE PLAN
PROJECT NO.
013038000
DATE
3/1/2018
S101
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SCOPE OF DOCUMENT

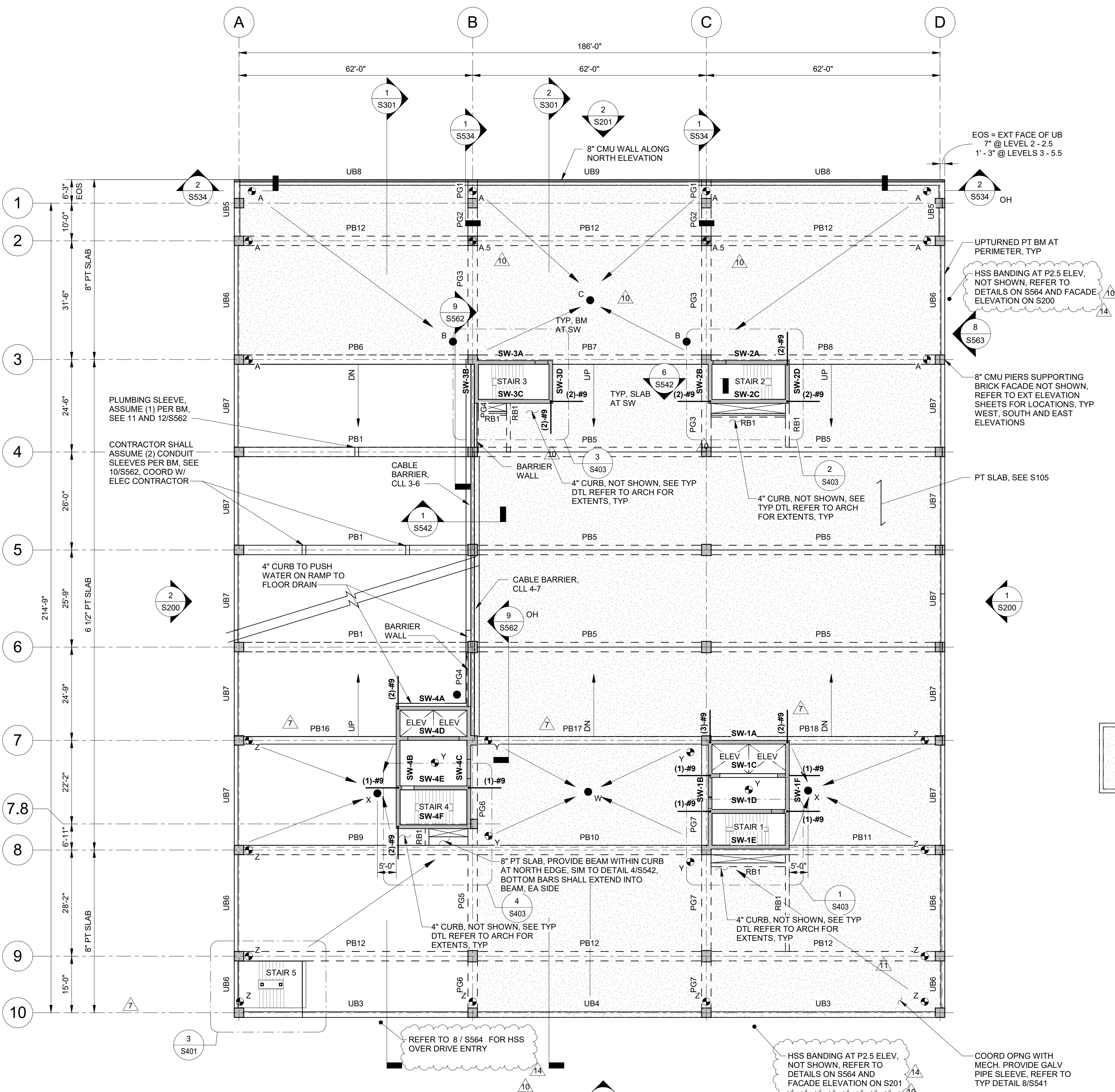
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NOTES:

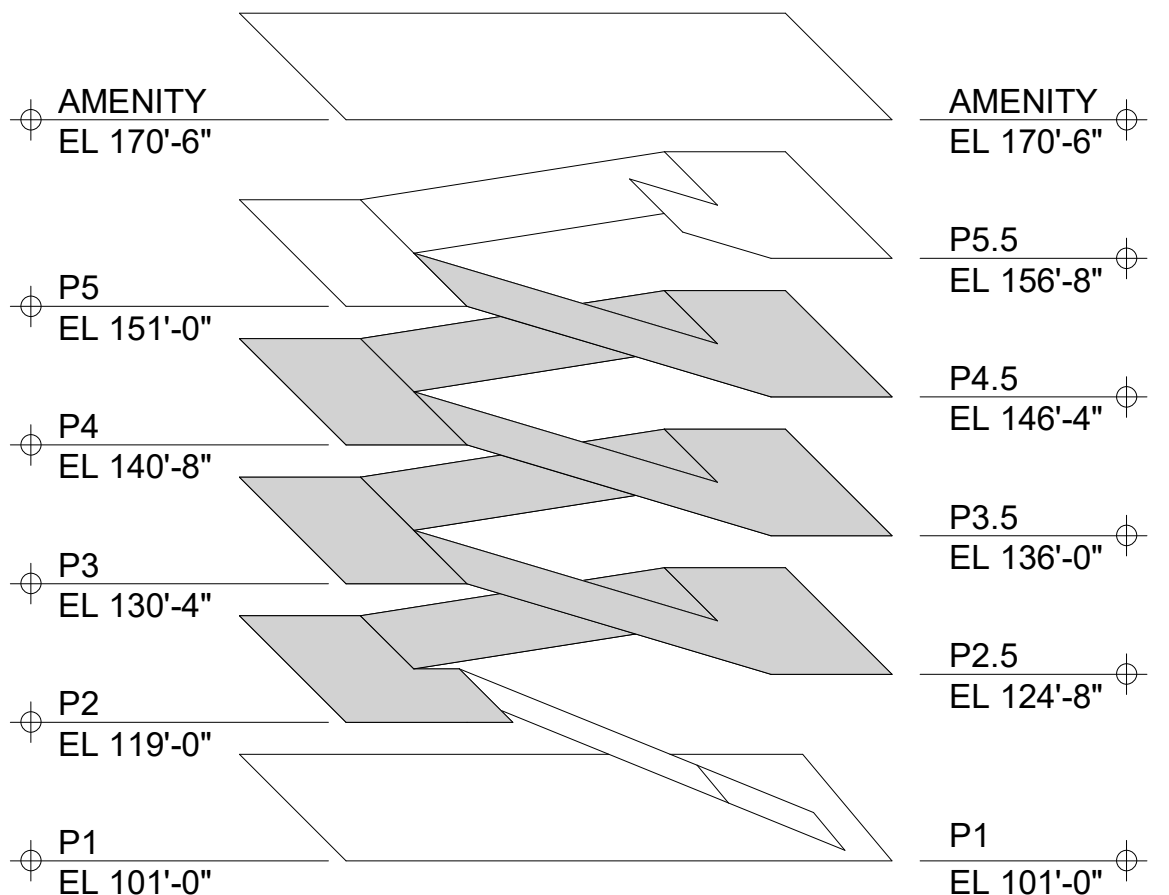
1. TOP OF BEAM AND TOP OF SLAB TO CORRESPOND WITH SPOT ELEVATIONS SHOWN.
2. BOTTOM OF BEAMS ALONG RAMP SHALL BE FLAT, REFER TO 6/S531.
3. NOT USED.
4. REFER TO SHEETS S531 AND S532 FOR PT BEAM DETAILS.
5. ALL CONCRETE CURBS AND RAISED ISLANDS ARE NOT SHOWN ON FRAMING PLANS FOR CLARITY. REFER TO ENLARGED PLANS OR ARCH SHEETS FOR LOCATIONS.
6. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCIES IN DRAINAGE INTENT ARE IDENTIFIED.
7. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS OF FLOOR DRAINS. FLOOR DRAINS SHOULD BE LOCATED ADJACENT TO BEAMS AND SLAB SHOULD MAINTAIN POSITIVE SLOPE TO DRAIN.
8. REFER TO DETAILS ON SHEET S562 FOR MISCELLANEOUS STEEL IN THE ELEVATOR SHAFTS.
9. REFER TO S105 FOR TYP POUR SEQUENCE PLAN.
10. GENERAL CONTRACTOR SHALL COORDINATE BETWEEN CONCRETE, ELECTRICAL AND PLUMBING FOR REQUIRED SLEEVES. SEE TYPICAL DETAILS ON S562. SUBMIT COORDINATION DRAWINGS FOR ENGINEER REVIEW.
11. REFER TO EXTERIOR ELEVATIONS AND ARCH PLANS FOR FACADE COORD. GENERAL CONTRACTOR SHALL FACILITATE COORD DWGS BTWN FACADE CONTRACTORS, STEEL FABRICATOR, AND PT ENGINEER TO COORD ALL EMBEDS AND MISC STL. SUBMIT COORD DWGS TO ENGINEER AND ARCH FOR REVIEW.

LEGEND:

1. DENOTES FLOOR DRAIN AT FFE MARK "A". REFER TO FFE TABLE FOR ELEVATION AT COLUMN GRID. REFER TO PLUMBING PLANS FOR ACTUAL DRAIN LOCATIONS.
2. DENOTES TOP OF PT SLAB FINISHED FLOOR ELEVATION MARK "B". REFER TO FFE TABLE.
3. CIP CONCRETE COLUMN, SEE S601.
4. WALL LEGEND:
 CIP CONCRETE WALL
 CMU WALL
5. POST TENSION BEAM/GIRDER LEGEND:
 PB - 1 BEAM NUMBER
PB = POST TENSIONED CONCRETE BEAM
PG = POST-TENSIONED CONCRETE GIRDER
UB = POST-TENSIONED UPTURNED CONCRETE BEAM
6. CONC RC BEAM LEGEND:
 RB - 1 BEAM NUMBER
RB = CONVENTIONAL REINFORCED CONCRETE BEAM
SB = CONVENTIONAL REINFORCED CONCRETE STAIR BEAM
7. DENOTES FLOOR DRAINAGE SLOPE FROM HIGH TO LOW POINT.
8. SW-1A DENOTES SHEAR WALL ELEVATION 1A, SEE SHEETS S311-S315.
9. DENOTES (2) - #9 COLLECTOR REINF. DEVELOP BARS Ldn INTO SHEAR WALL, AND 2 x Ld, MIN INTO PT SLAB.



NOTE:
TRAFFIC COATING ON LEVEL P2 ABOVE OCCUPIED SPACE SHOWN WITH GRAY STIPPLE PATTERN.



FRAMING PLAN - LEVELS P2-P4

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

STAMP



NUMBER	ISSUED FOR	DATE
14	ISSUED FOR PHASE 1 IFC ADDENDUM 1	2/20/2019
11	SSK - 1	11/12/2018
10	ISSUE FOR PHASE 1 CONSTRUCTION	11/2/2018
7	ISSUED FOR PRICING - PHASE 2	8/20/2018
6	ISSUE FOR PHASE 1 (PODIUM) PERMIT	7/17/2018
4	ISSUE FOR PRICING	3/23/2018
1	PROGRESS SET FOR PARKING DECK GMP	3/1/2018

BUILT FORM ARCHITECTURE

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PROJECT HAY STREET MIXED-USE DEVELOPMENT
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SHEET TITLE FRAMING PLAN - LEVELS P2-P4

PROJECT NO. 013038000

DATE 3/1/2018

SCOPE OF DOCUMENT

1. THIS DOCUMENT WITH THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS, DESCRIBES THE GENERAL SCOPE OF THE PROJECT AND DESIGN CONCEPT IN TERMS OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THESE DOCUMENTS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT.
2. ON THE BASIS OF THE SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL DETERMINE AND INCLUDE IN HIS PROPOSALS ALL ITEMS NECESSARY TO PROVIDE THE PROPER EXECUTION AND COMPLETION OF THE WORK.

NOTES:

1. REFER TO NOTES ON S102.
2. REFER TO 1/5S23 FOR CONCRETE COLUMNS SUPPORTING STEEL COLUMNS AND ANCHOR BOLTS REQUIRED.
3. LOCATE REINFORCED BEAMS UNDER FUTURE PH 2 COLD-FORMED BEARING WALLS.
4. TO SLAB EL = 170'-6", UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS AND POUR SEQUENCE TO ENGINEER FOR REVIEW.
6. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS OF FLOOR DRAINS.
7. REFER TO NOTES ON S107 REGARDING FUTURE SHAFT OPENINGS ADJACENT TO EACH STAIR CORE.

LEGEND:

1. DENOTES FLOOR DRAIN AT FFE MARK "A". REFER TO FFE TABLE FOR ELEVATION AT COLUMN GRID. REFER TO PLUMBING PLANS FOR ACTUAL DRAIN LOCATIONS.
2. DENOTES TOP OF PT SLAB FINISHED FLOOR ELEVATION MARK "B". REFER TO FFE TABLE.
3. CIP CONCRETE COLUMN, SEE S601.
4. WALL LEGEND:
 CIP CONCRETE WALL
 CMU WALL
5. POST TENSION BEAM/GIRDER LEGEND:
 PB - 1
BEAM NUMBER
PB = POST TENSIONED CONCRETE BEAM
PG = POST-TENSIONED CONCRETE GIRDER
UB = POST-TENSIONED UPTURNED CONCRETE BEAM
6. CONC RC BEAM LEGEND:
 RB - 1
BEAM NUMBER
RB = CONVENTIONAL REINFORCED CONCRETE BEAM
SB = CONVENTIONAL REINFORCED CONCRETE STAIR BEAM
7. INDICATES A STEP/RECESS OF "X" IN FFE
8. SW-1A DENOTES SHEARWALL ELEVATION 1A, SEE SHEETS S311-S315
9. DENOTES (2) - #9 COLLECTOR REINF. DEVELOP BARS LBN INTO SHEAR WALL, AND LBN INTO PT SLAB. ALIGN REINF WITH HORIZ SHEAR WALL REINF.
10. INDICATES FUTURE PHASE 2 SHAFT, TO BE SAWCUT AT FACE OF BEAM OR WALL

STAMP



Designed by: Joshua W. Griffin
2/19/2019

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14	ISSUED FOR PHASE 1 IFC ADDENDUM 1	2/20/2019
13	ISSUED FOR PHASE 2 GMP	02/01/2019
12	SSK - 2	02/11/2019
11	SSK - 1	11/12/2018
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4	ISSUE FOR PRICING	3/23/2018
1	PROGRESS SET FOR PARKING DECK GMP	3/1/2018

BUILT FORM
ARCHITECTURE 935 W Chestnut St., Ste # 520
Chicago, IL 60642

CLIENT
PRINCE CHARLES HOLDINGS, LLC
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POOL CONSULTANT
TBD

ACOUSTICAL CONSULTANT
TBD

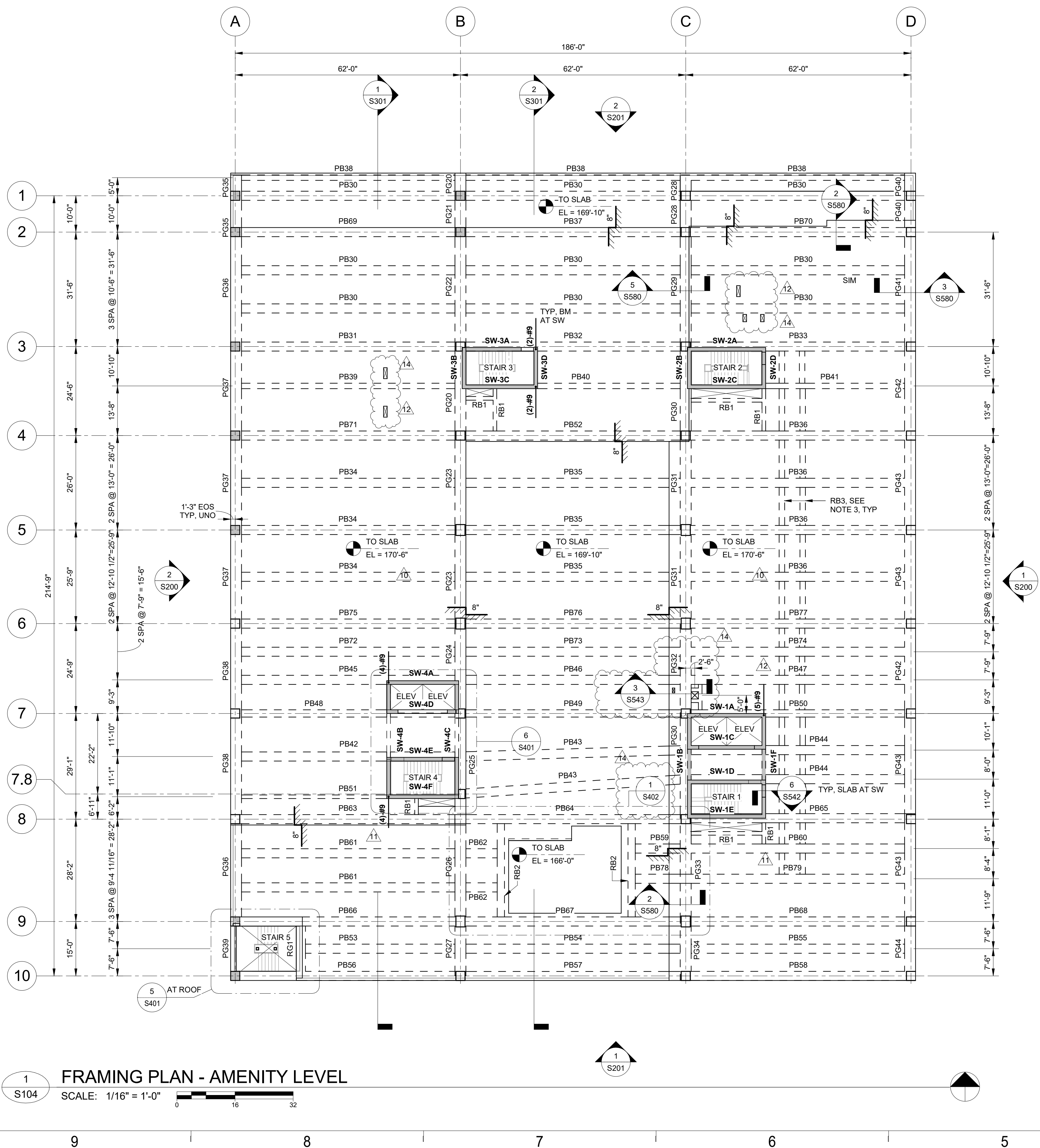
PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

SHEET TITLE
FRAMING PLAN - AMENITY LEVEL

PROJECT NO.
013038000

DATE
3/1/2018

S104



FRAMING PLAN - AMENITY LEVEL

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

SCOPE OF DOCUMENT

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NOTES:

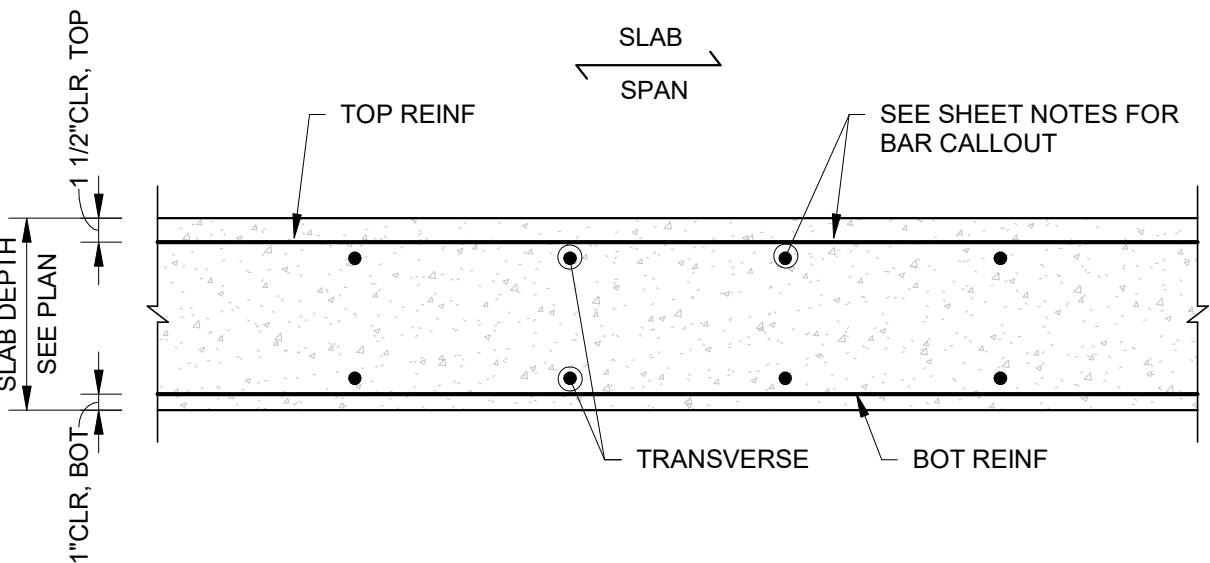
1. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE S000 SHEETS.
2. TO SLAB EL = 170'-6", UNLESS NOTED OTHERWISE.
3. SEE ARCH AND MEP PLANS FOR LOCATIONS AND SIZES OF OPENING THROUGH CIP CONCRETE.
4. FOR NON-LOAD BEARING WALL LOCATIONS AND THICKNESS, SEE ARCH.
5. IN AREAS WHERE FUTURE SLAB OPENINGS ARE TO BE LOCATED, SLAB REINFORCING SHALL NOT BE CONNECTED TO CONCRETE WALLS. SLAB EXTENTS AS SHOWN ON PLANS SHALL BE SAWCUT AND REMOVED TO FACILITATE FUTURE SLAB OPENING IN PHASE II.
6. REFER TO PLUMBING PLANS FOR EXACT LOCATIONS OF FLOOR DRAINS. FLOOR DRAINS SHOULD BE LOCATED ADJACENT TO BEAMS AND SLAB SHOULD MAINTAIN POSITIVE SLOPE TO DRAIN.
7. REFER TO LANDSCAPE ARCH PLANS FOR LOCATION AND SIZE OF NEW PLANTER WALLS IN PLAZA SPACE. REFER TO DETAIL 6/S580.
8. SEE 1/S570 FOR OFFICE TOWER COLUMN SCHEDULE AND 1/S523 FOR ANCHOR BOLT AND BASE PLATE REQUIREMENTS. ALL TOWER COLUMNS ARE CENTERED ON C/L UNO.
9. FOR HOTEL TOWER, CONFIRM ALL EDGE OF SLABS AND SLAB STEPS WITH CFS SUPPLIER AND ARCH PLANS.
10. WITHIN THE FOOTPRINT OF THE HOTEL AND OFFICE TOWERS, THE FOLLOWING FLOOR FLATNESS AND LEVELNESS SHALL BE ACHIEVED, UNLESS A MORE STRINGENT LIMIT IS PROVIDED BY THE HOTEL CONTRACTOR FOR THE AREA BENEATH THE HOTEL:
 - A. AT HOTEL: MEASURE SURFACE SO GAP AT ANY POINT BETWEEN CONCRETE SURFACE AND AN UNLEVEL FREESTANDING 10 FT LONG STRAIGHTEDGE RESTING ON TWO HIGH SPOTS AND PLACED ANYWHERE ON THE SURFACE DOES NOT EXCEED 1/4 INCH.
 - B. AT OFFICE:
 - a. OVERALL VALUES OF FLATNESS: F(0) 30
 - b. OVERALL VALUES OF LEVELNESS: F(0) 20
 - c. MINIMUM LOCAL VALUES OF FLATNESS: F(0) 24
 - d. MINIMUM LOCAL VALUES OF LEVELNESS: F(0) 15

LEGEND:

1. CONCRETE SHEAR WALL (SEE S311 - S316)
2. CONCRETE COLUMN
3. ONE WAY SLAB SPAN (SEE SCHED THIS SHEET AND 1/S543 FOR DETAILS)
4. SLAB STEP

AMENITY SLAB SCHEDULE				
SLAB MARK	SLAB THICKNESS	TOP REINF	BOT REINF	TRANSVERSE REINF (EW)
S1	6"	#5@12"	#5@12"	#5@12"
S2	8"	#5@9"	#5@9"	#5@12"
S3	6"	#5@9"	#5@9"	#5@12"
S4	12"	#5@9"	#5@4"	#5@12"
S5	6"	#5@9"	#5@12"	#5@12"
S6	24"	#8@12"	#9@12"	#5@12"
S7	6.5"	#5@9"	#5@9"	#5@12"

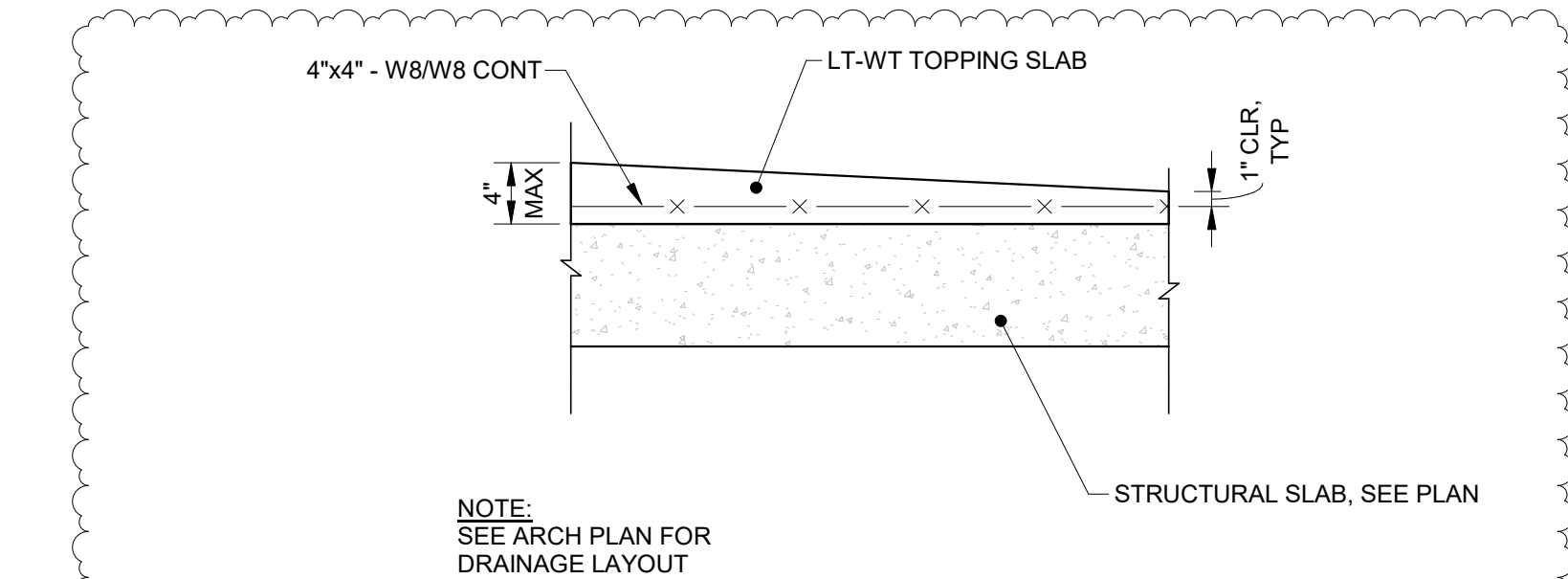
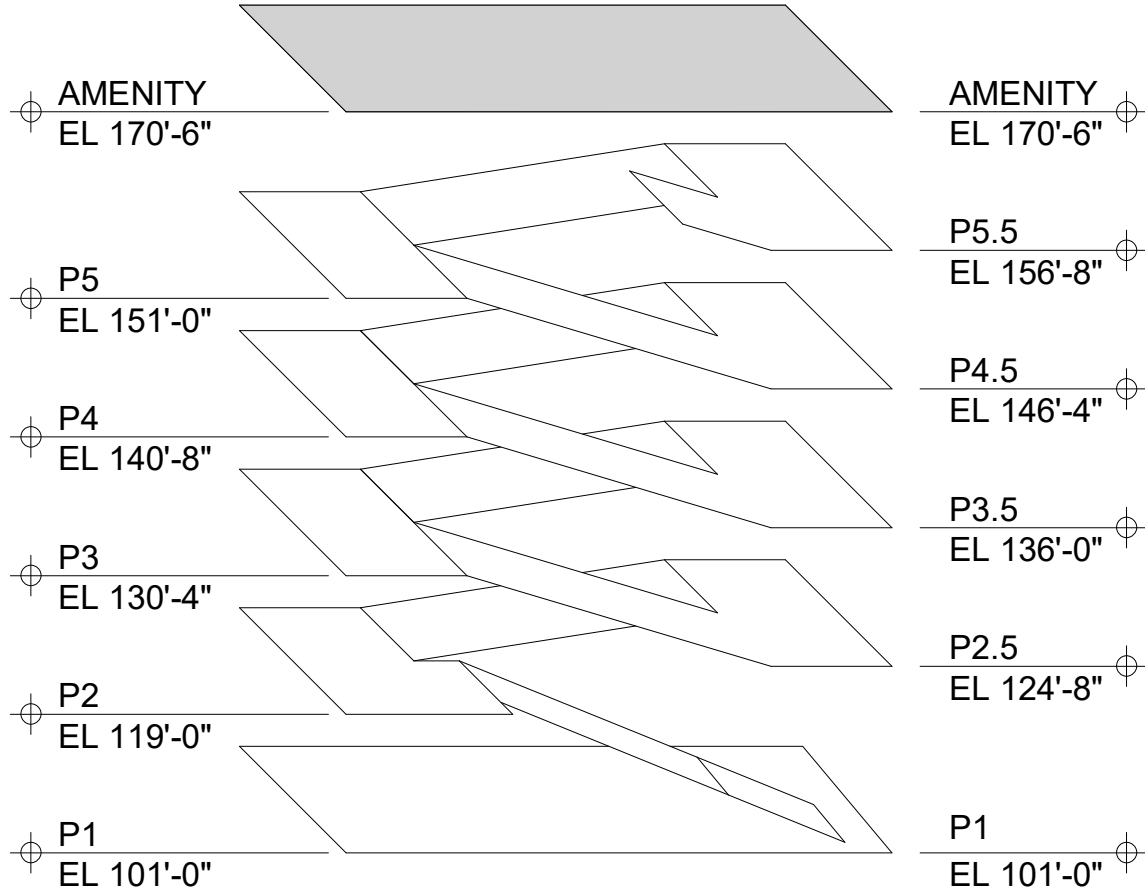
* HATCHED AREAS ON PLAN ARE USED TO DELINEATE SLAB EXTENTS.



- NOTES:
1. UNLESS NOTED OTHERWISE, WHERE SLAB TERMINATES INTO SUPPORTING BEAMS, WALLS, OR COLUMNS, TOP BAR REINF SHALL BE DEVELOPED INTO BEAM, WALL, OR COLUMN WITH STANDARD 90° HOOKS.
 2. REFER TO PLAN FOR TYPICAL AND ADDITIONAL SLAB REINFORCING.

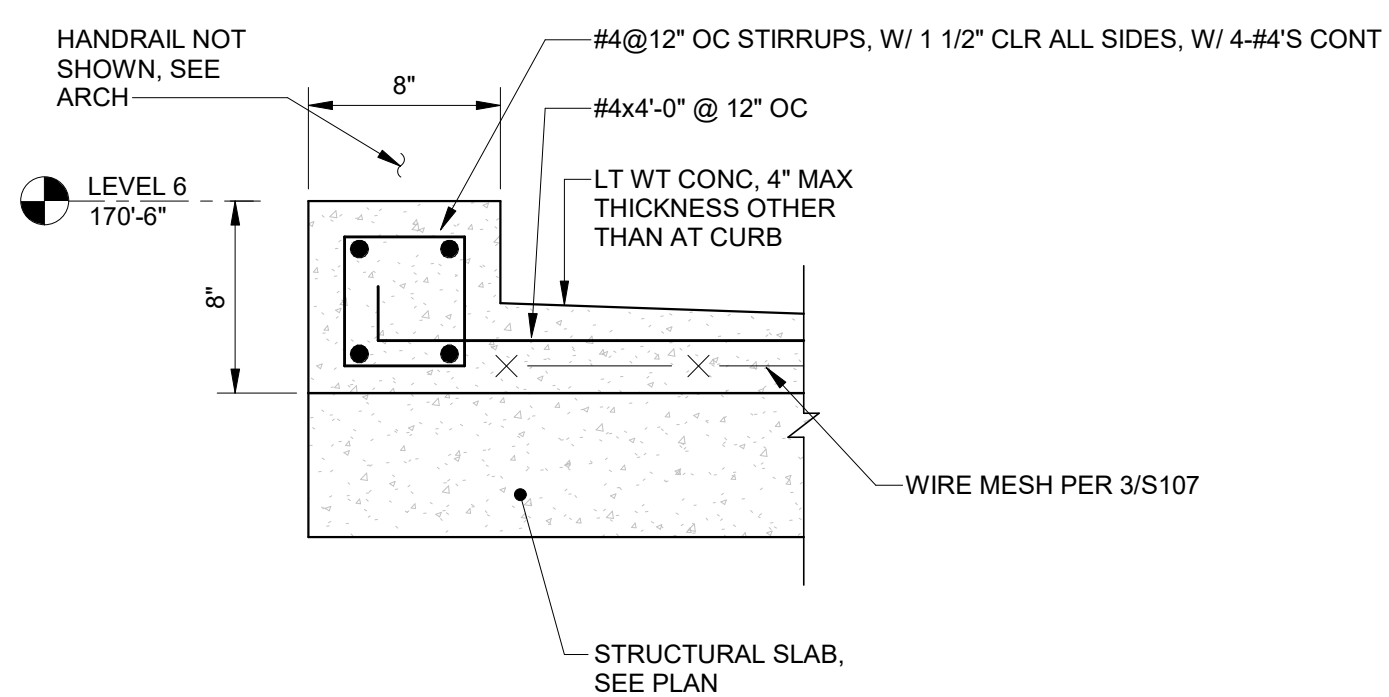
REINFORCED SLAB

SCALE: 1" = 1'-0"



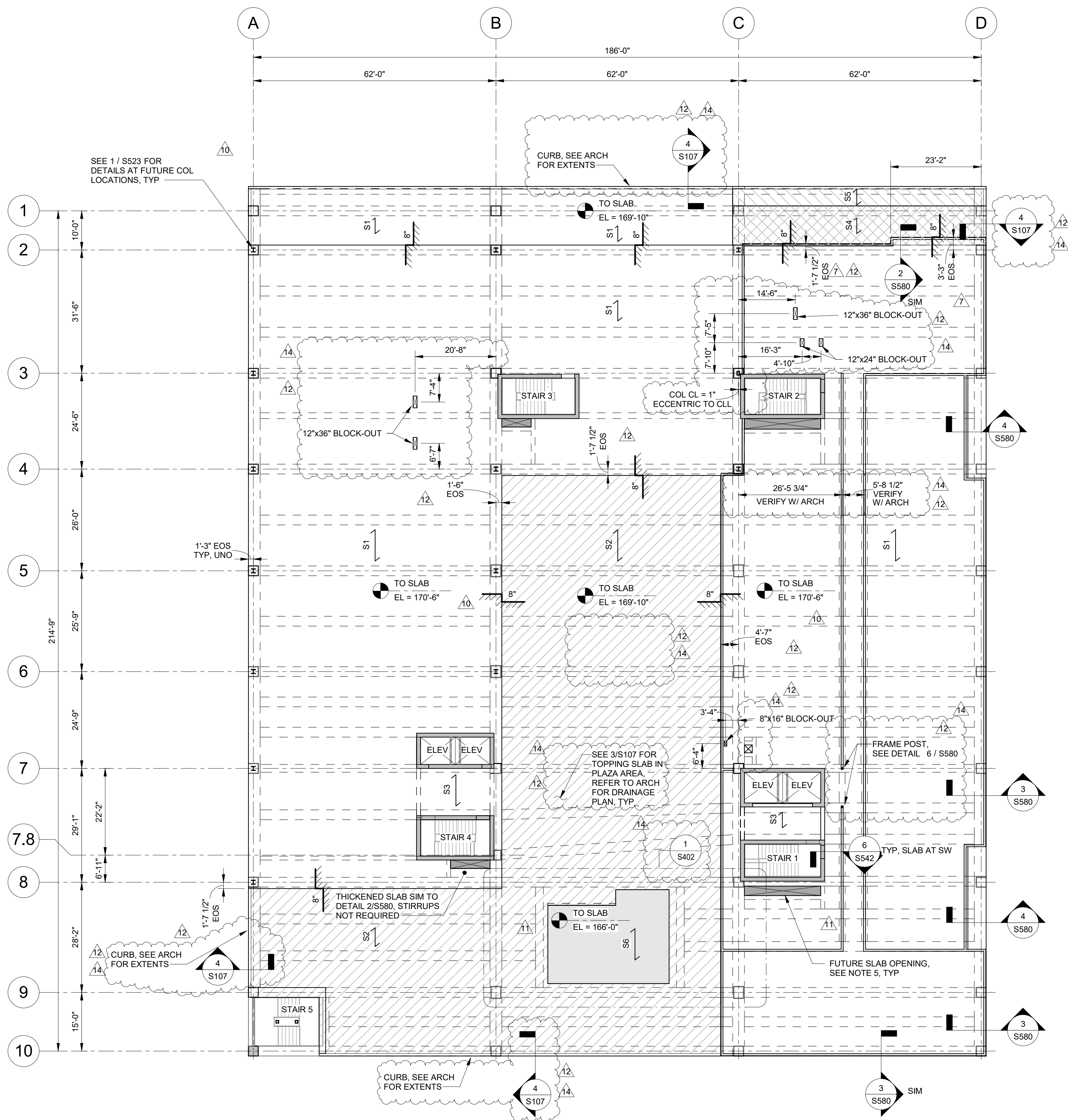
PLAZA TOPPING SLAB - PHASE 2

SCALE: 1" = 1'-0"



CURB AT AMENITY LEVEL - PHASE 2

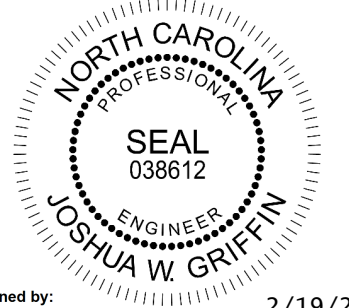
SCALE: 1 1/2" = 1'-0"



SLAB PLAN - AMENITY LEVEL

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

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BUILT FORM ARCHITECTURE

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TBD

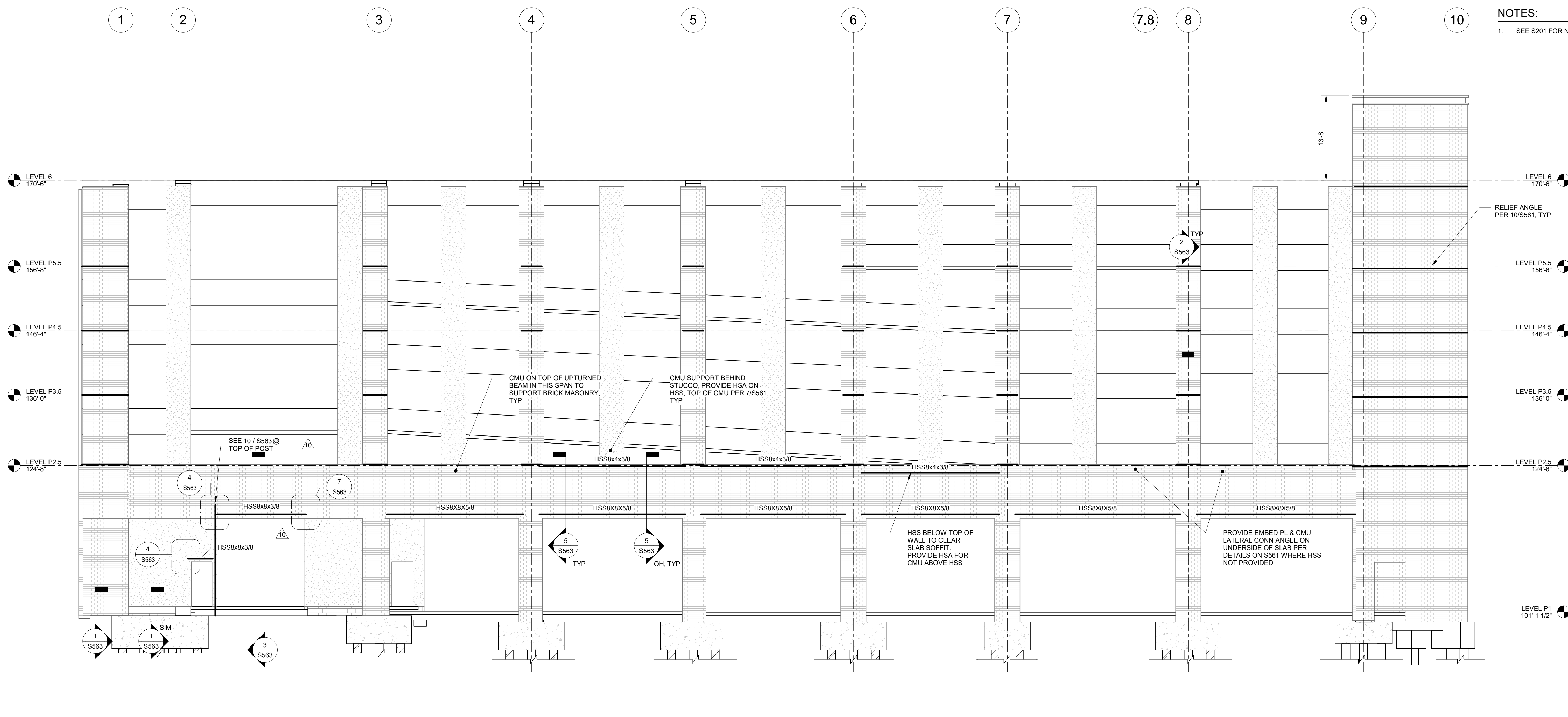
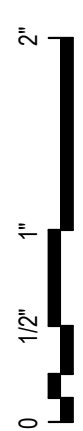
PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

SHEET TITLE
SLAB PLAN AMENITY LEVEL

PROJECT NO.
013038000

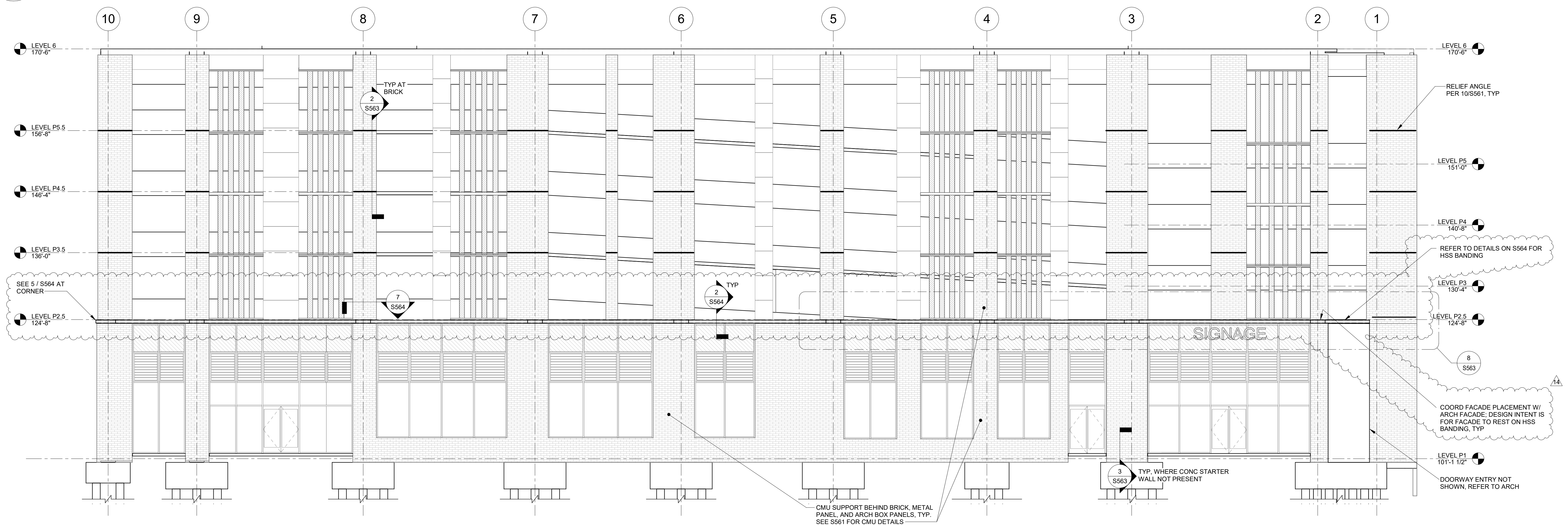
DATE
3/1/2018

S107



NOTES:
1. SEE S201 FOR NOTES.

2 WEST FACADE ELEVATION
SCALE: 1/8" = 1'-0"



1 EAST FACADE ELEVATION
SCALE: 1/8" = 1'-0"

Kimley»Horn
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PHONE: 919.677.2000
FAX: 919.677.2050
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Disseminated by: *Joshua W. Griffin*
EJC04031888AMF 2/19/2019

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Chicago, IL 60642
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421 Fayetteville St., Suite 400, Raleigh, NC 27601
STRUCTURAL ENGINEER: KIMLEY-HORN
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PLANNING CONSULTANT: J TATLOCK DESIGN LLC
11033 Kiskadee Park Road, Miami, FL 33156
MECHANICAL / ELECTRICAL / PLUMBING ENGINEER: ADVANCE CONSULTING GROUP INTERNATIONAL
300 W. Adams Street, Suite 420, Chicago, IL 60606
POOL CONSULTANT: TBD
ACOUSTICAL CONSULTANT: TBD
PROJECT: HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301
SHEET TITLE: EXTERIOR FACADE ELEVATIONS
PROJECT NO.: 013038000
DATE: 05/10/18
S200
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Joshua W. Griffin
E0388120804F

2/19/2019

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TBD

ACOUSTICAL CONSULTANT
TBD

PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

SHEET TITLE
SHEARWALL ELEVATIONS

PROJECT NO.
013038000

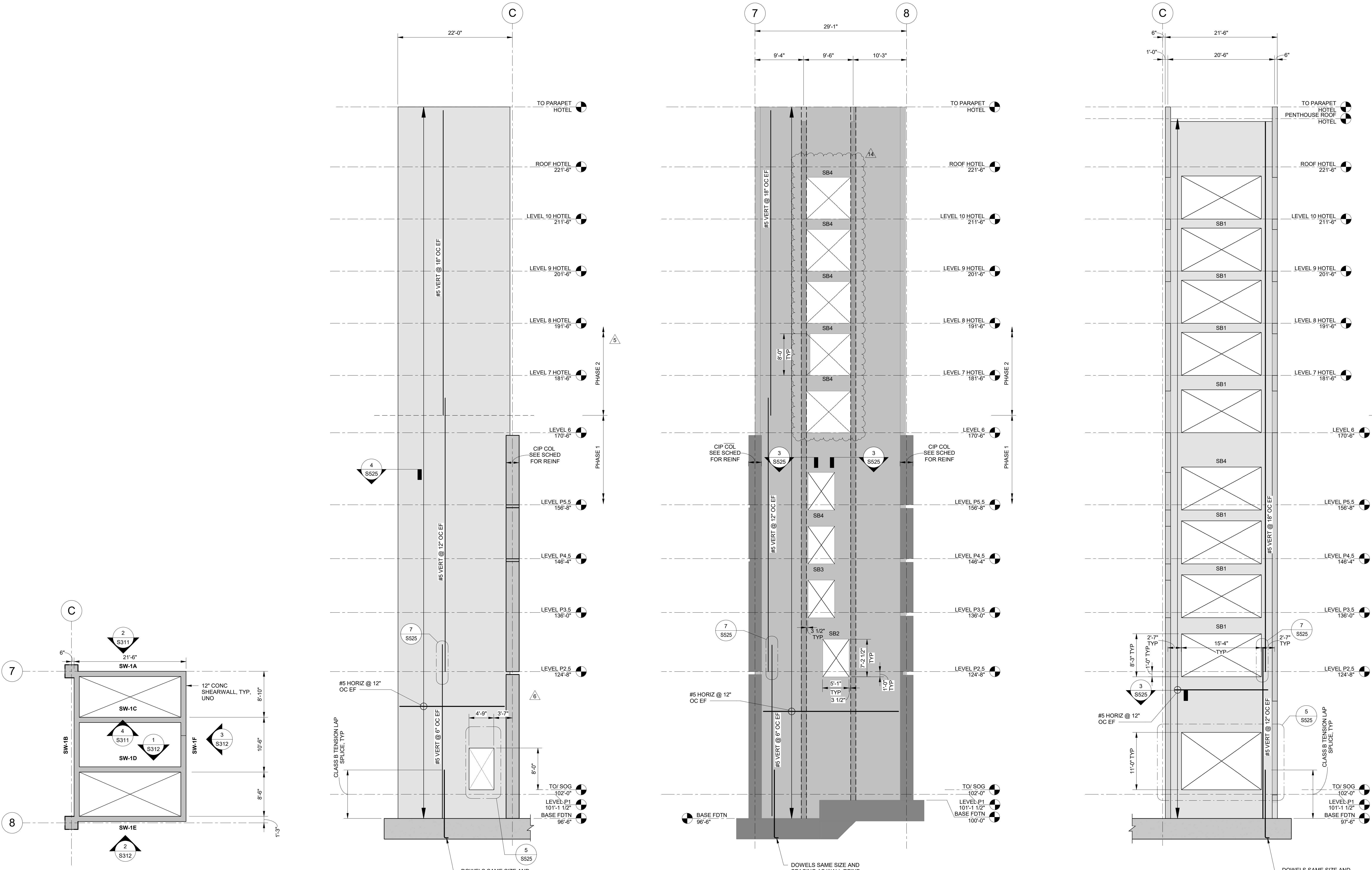
DATE
3/1/2018

S311

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NOTES:

1. ALL ROUGH OPENINGS SHALL BE COORDINATED WITH ARCH DRAWINGS AND ELEVATOR SHOP DRAWINGS. COORDINATE STAIR SHAFT PRESSURIZATION OPENINGS WITH MEP DRAWINGS.
2. DRAINAGE SLOPES FOR FLOOR SLABS ARE NOT SHOWN HEREIN. REFER TO SLAB-ON-GRADE PLAN OR FRAMING PLANS FOR SPOT ELEVATIONS.
3. ALL REINFORCING SHALL BE FULLY DEVELOPED IN FOUNDATIONS. REINFORCING WITHIN THE WALL SHALL BE LAPPED WITH A CLASS B TENSION LAP SPLICE.
4. SB DENOTES SHEAR WALL SPANDREL BEAM. SEE DETAIL 8/S525.
5. REFER TO S3/S51 FOR PHASE 1 TEMP ROOF DETAIL, TYP ALL CORES, ALL WALLS.

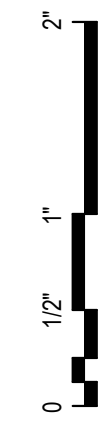


1 STAIR 1 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

2 SHEARWALL ELEVATION - SW-1A
SCALE: 1/8" = 1'-0"

3 SHEARWALL ELEVATION - SW-1B
SCALE: 1/8" = 1'-0"

4 SHEARWALL ELEVATION - SW-1C
SCALE: 1/8" = 1'-0"



NOTES:

1. REFER TO NOTES ON S311.

Kimley»Horn

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Designed by:
Joshua W. Griffin
E000431888AMF

2/19/2019

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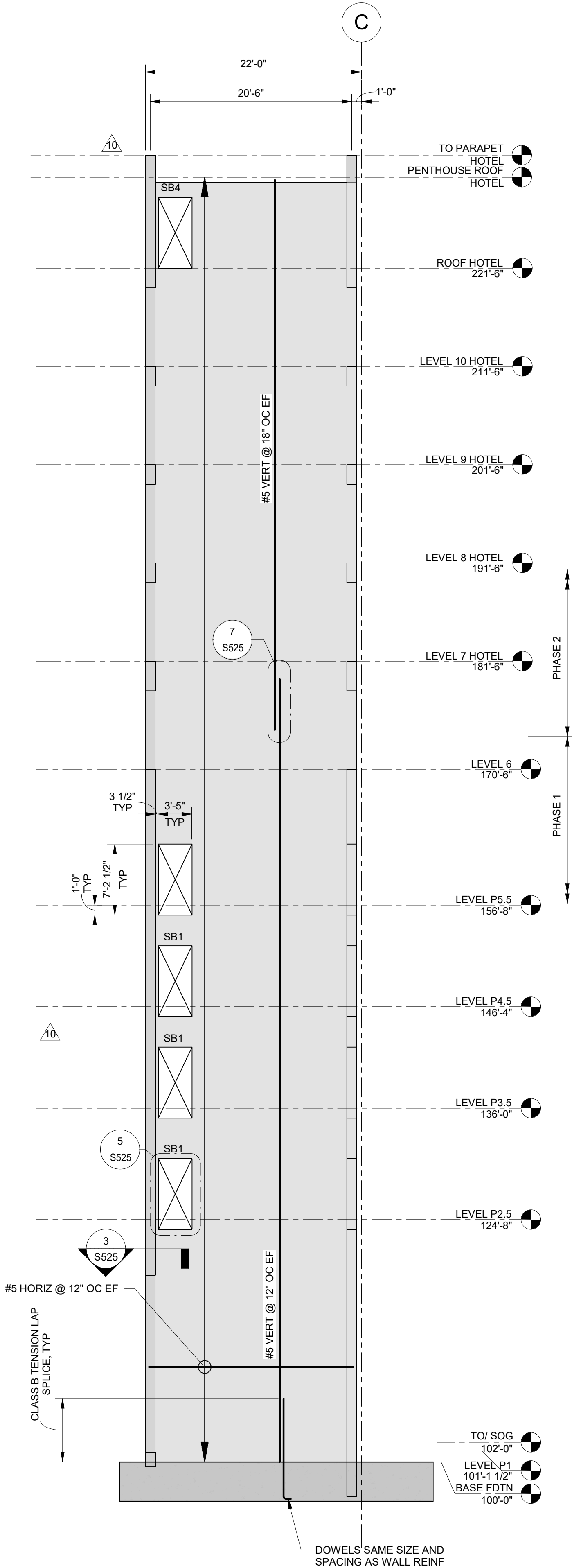
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SHEET TITLE
SHEARWALL ELEVATIONS

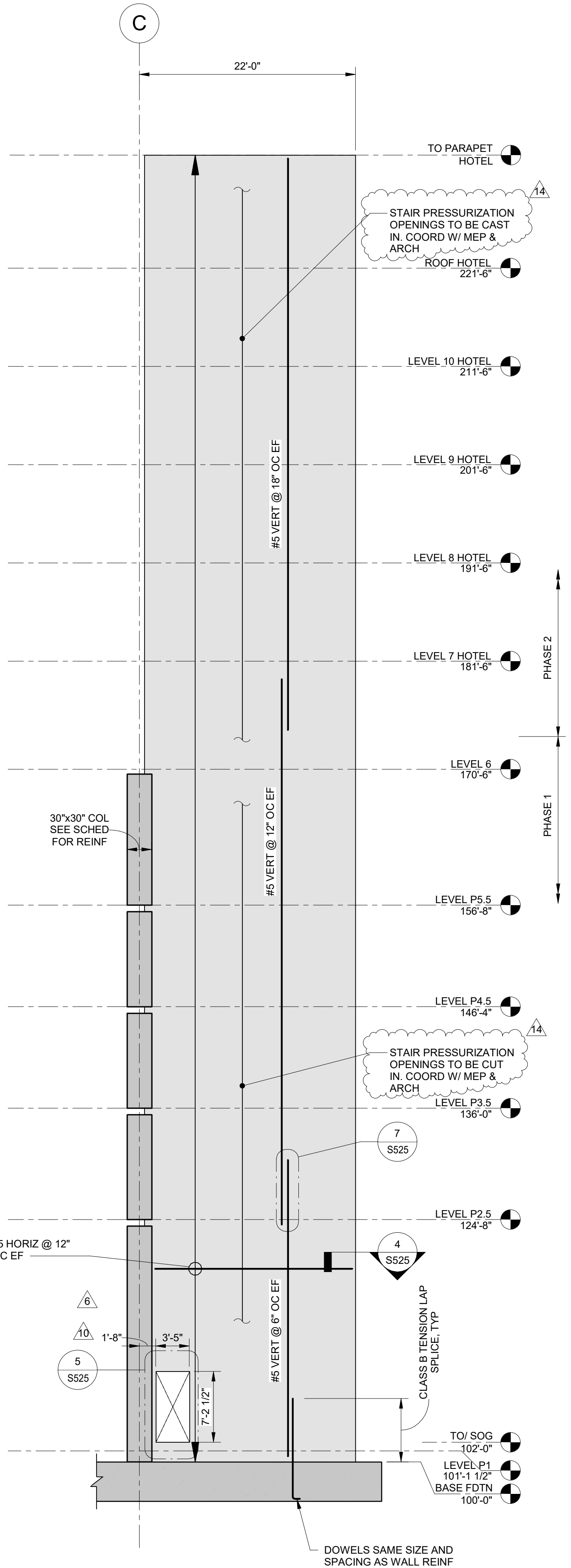
PROJECT NO.
013038000

DATE
05/15/18

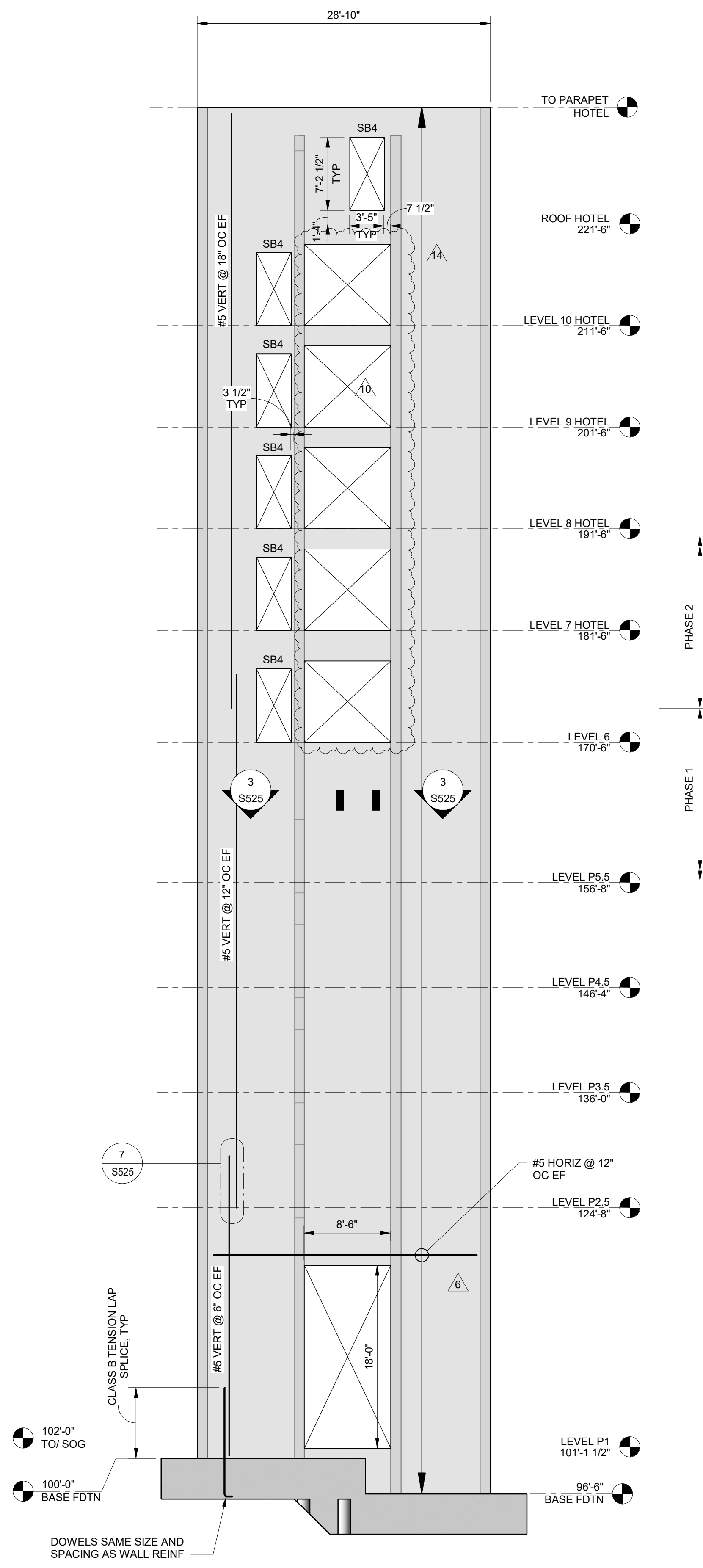
S312



1
S312
SHEARWALL ELEVATION - SW-1D
SCALE: 1/8" = 1'-0"

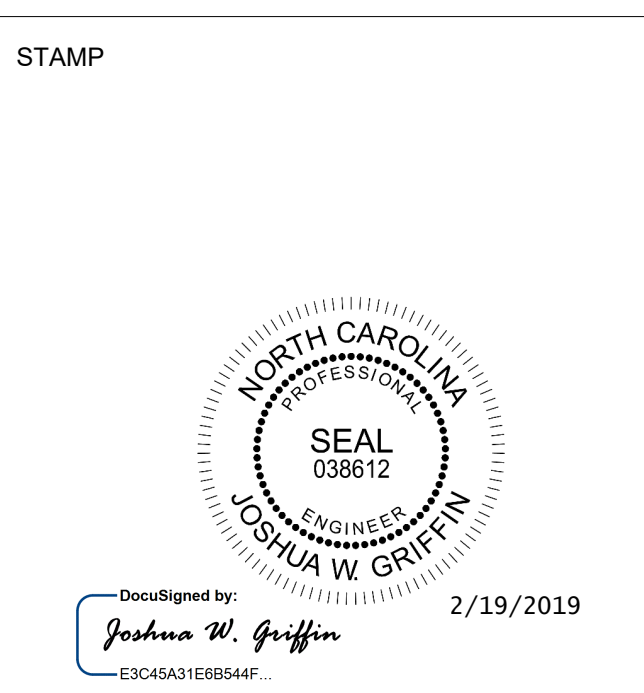


2
S312
SHEARWALL ELEVATION - SW-1E
SCALE: 1/8" = 1'-0"



3
S312
SHEARWALL ELEVATION - SW-1F
SCALE: 1/8" = 1'-0"

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TBD

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SHEET TITLE
SHEARWALL ELEVATIONS

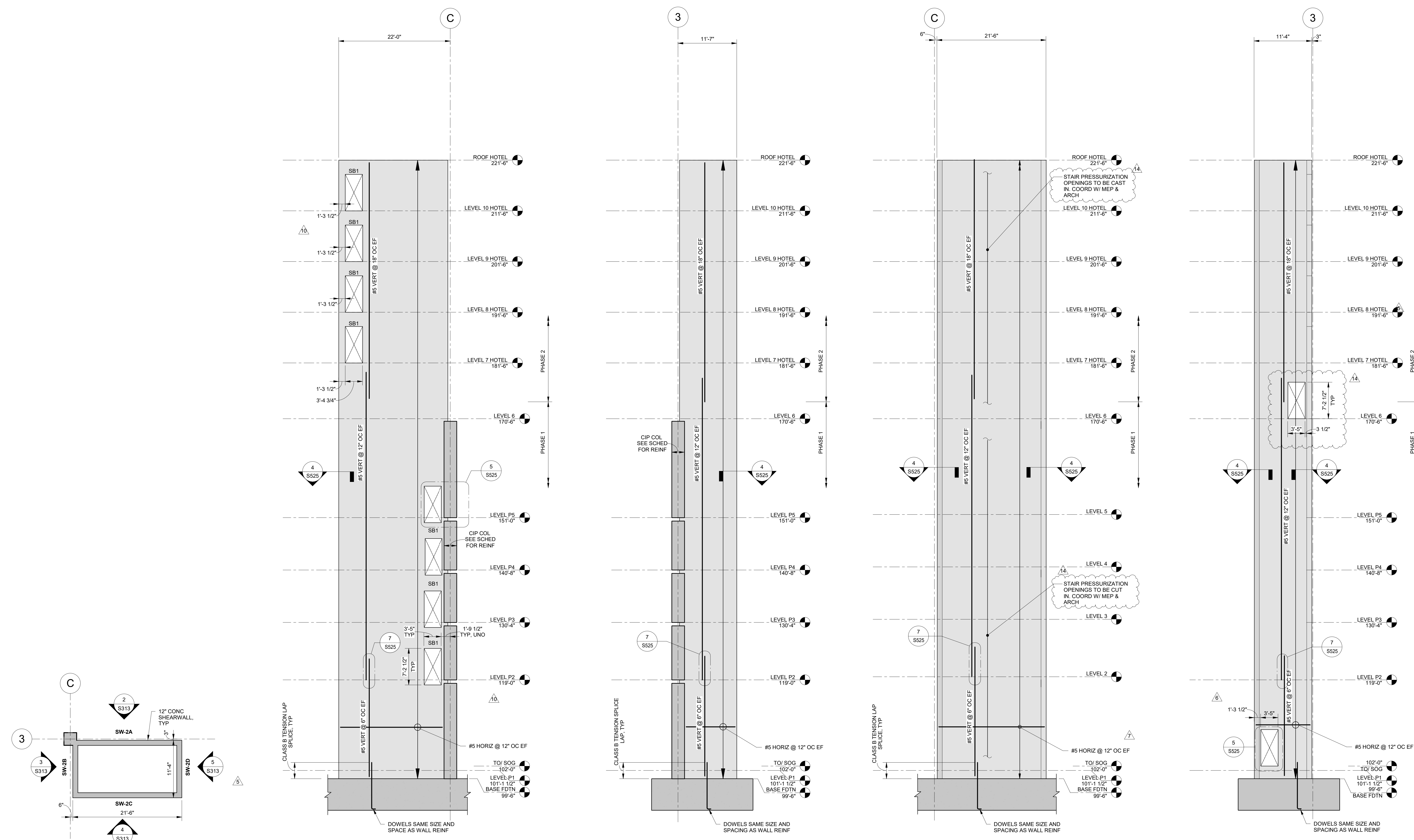
PROJECT NO.
013038000

DATE
3/1/2018

S313

NOTES:

1. REFER TO NOTES ON S311.
2. TOP OF WALL MATCHES TOP OF ROOF DECK ON ALL SIDES OF CORE.



1
S313
STAIR 2 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

2
S313
SHEARWALL ELEVATION - SW-2A
SCALE: 1/8" = 1'-0"

3
S313
SHEARWALL ELEVATION - SW-2B
SCALE: 1/8" = 1'-0"

4
S313
SHEARWALL ELEVATION - SW-2C
SCALE: 1/8" = 1'-0"

5
S313
SHEARWALL ELEVATION - SW-2D
SCALE: 1/8" = 1'-0"

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STAMP

NORTH CAROLINA
SEAL
038812
ENGINEER
JOSEPH W. GRIFFIN
Decommissioned by:
Joshua W. Griffin
EIC04018884MF 2/19/2019

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POOL CONSULTANT
TBD

ACOUSTICAL CONSULTANT
TBD

PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

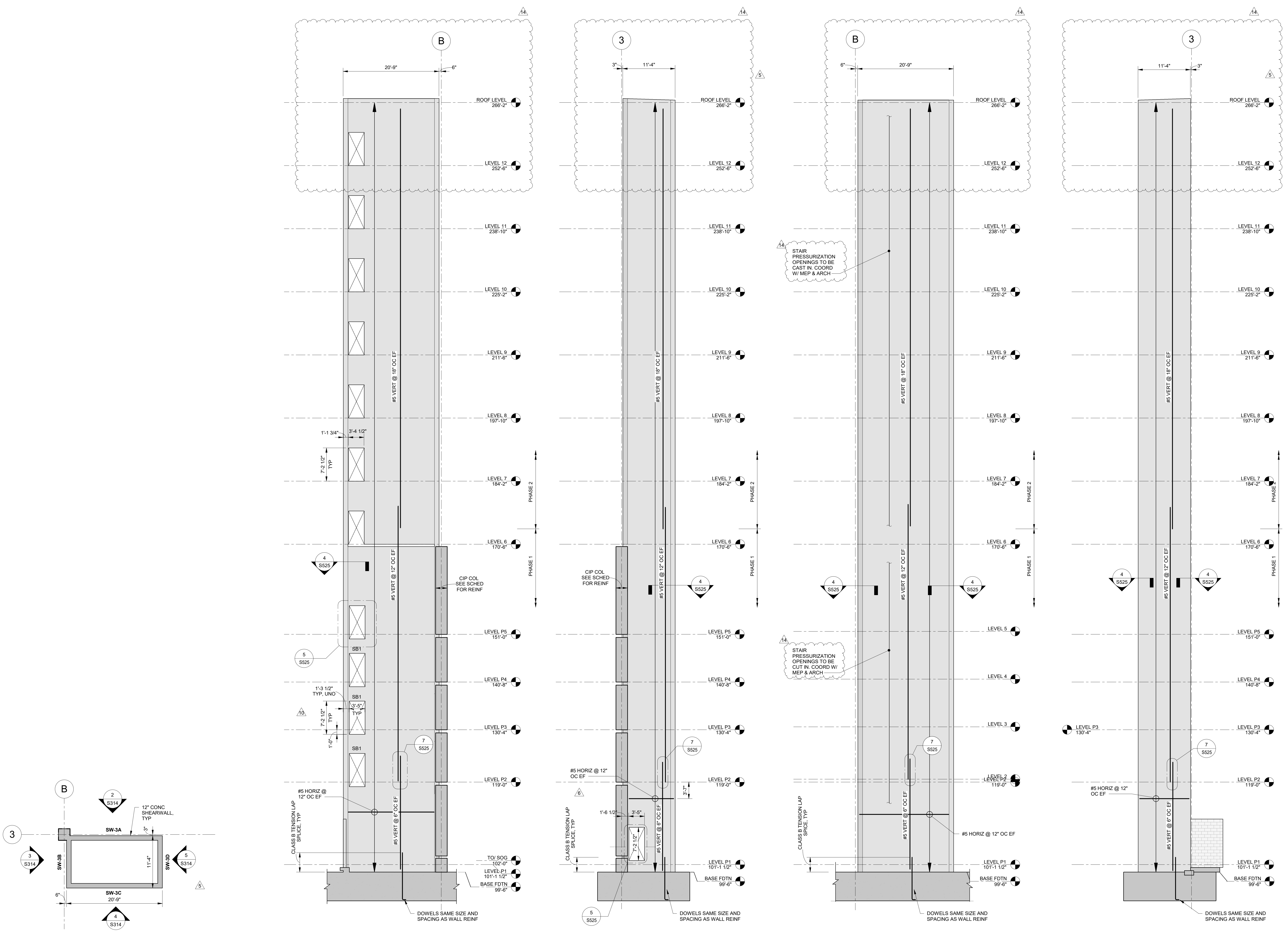
SHEET TITLE
SHEARWALL ELEVATIONS

PROJECT NO.
013038000
S314

DATE
3/1/2018

NOTES:

- REFER TO NOTES ON S311.
- TOP OF WALL MATCHES TOP OF ROOF DECK ON ALL SIDES OF CORE.



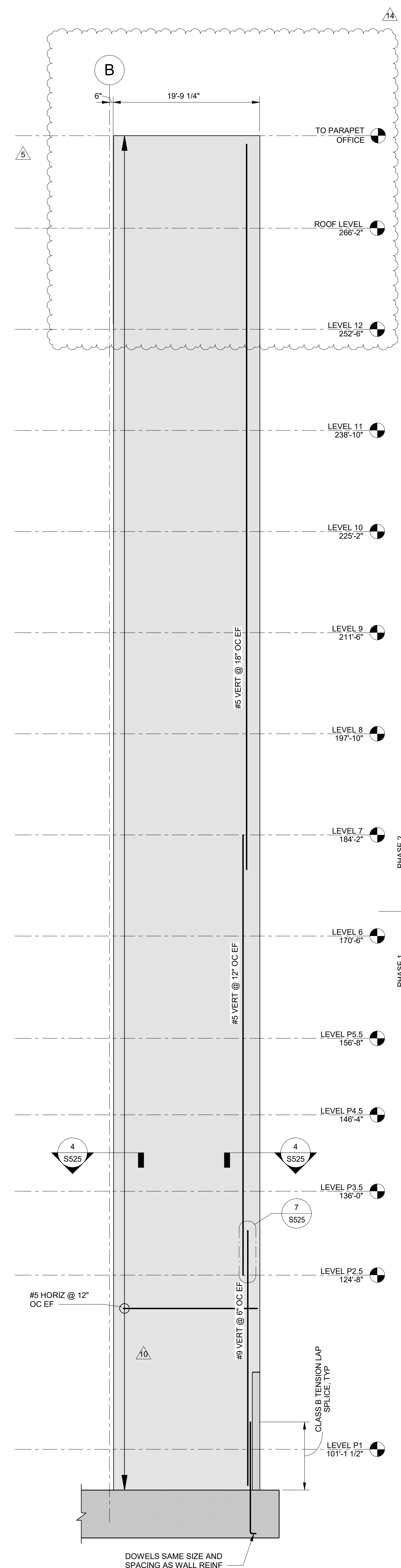
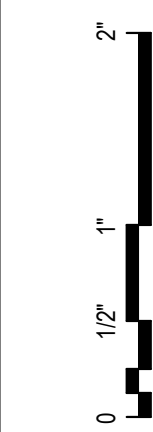
1
S314 STAIR / ELEVATOR 3 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

2
S314 SHEARWALL ELEVATION - SW-3A
SCALE: 1/8" = 1'-0"

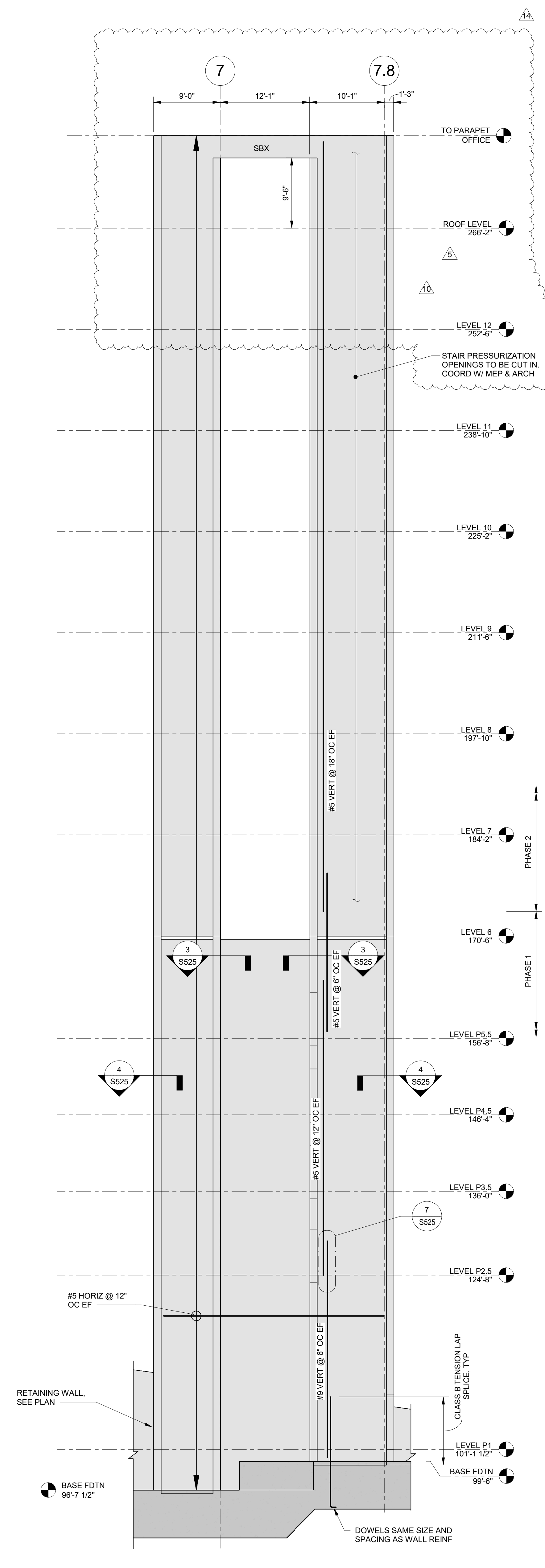
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S314 SHEARWALL ELEVATION - SW-3B
SCALE: 1/8" = 1'-0"

4
S314 SHEARWALL ELEVATION - SW-3C
SCALE: 1/8" = 1'-0"

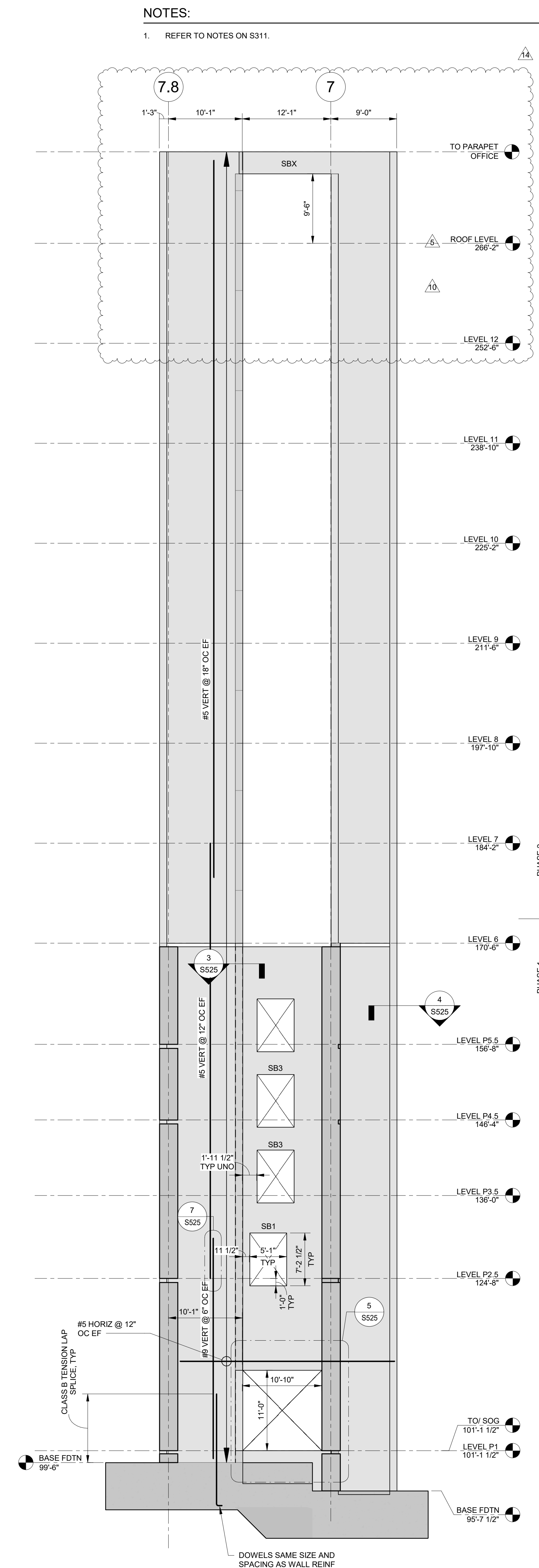
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S314 SHEARWALL ELEVATION - SW-3D
SCALE: 1/8" = 1'-0"



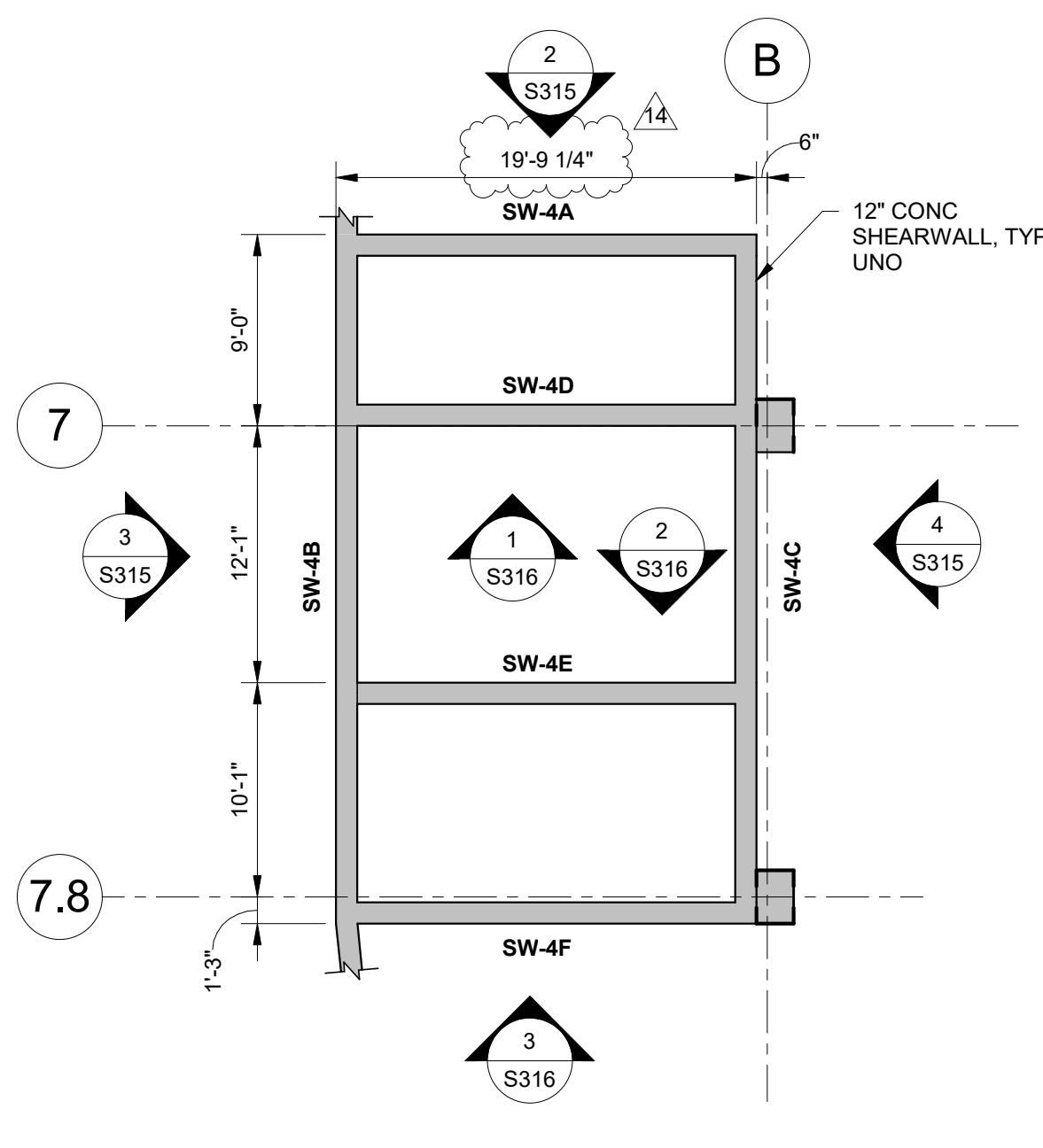
2 SHEARWALL ELEVATION - SW-4A
SCALE: 1/8" = 1'-0"



3 SHEARWALL ELEVATION - SW-4B
SCALE: 1/8" = 1'-0"



4 SHEARWALL ELEVATION - SW-4C
SCALE: 1/8" = 1'-0"



1 STAIR/ELEVATOR 4 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

NOTES:

1. REFER TO NOTES ON S311.

Kimley»Horn

NC LICENSE #F-0102 2019, ©

SUITE 600
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RALEIGH, NC 27601

PHONE: 919.677.2000
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SCOPE OF DOCUMENT

1. THIS DOCUMENT WITH THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS, DESCRIBES THE GENERAL SCOPE OF THE PROJECT AND DESIGN CONCEPT IN TERMS OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. THESE DOCUMENTS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT.
2. ON THE BASIS OF THE SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL DETERMINE AND INCLUDE IN HIS PROPOSALS ALL ITEMS NECESSARY TO PROVIDE THE PROPER EXECUTION AND COMPLETION OF THE WORK.

STAMP



Designed by: *Joshua W. Griffin*
E0388120804F 2/19/2019

NUMBER	ISSUED FOR	DATE
14	ISSUED FOR PHASE 1 IFC ADDENDUM 1	2/20/2019
13	ISSUE FOR PHASE 2 GMP	02/01/2019
10	ISSUE FOR PHASE 1 CONSTRUCTION	11/2/2018
7	ISSUED FOR PHASE 2	8/20/2018
6	ISSUE FOR PHASE 1 (PODUM) PERMIT	7/17/2018
5	ISSUE FOR FOUNDATION PERMIT COMMENT RESPONSES	4/20/2018
4	ISSUE FOR PHASE 1	3/23/2018
3	ISSUE FOR FOUNDATION PERMIT	3/16/2018
1	PROGRESS SET FOR PARKING DECK GMP	3/1/2018

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POOL CONSULTANT
TBD

ACOUSTICAL CONSULTANT
TBD

PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

SHEET TITLE
SHEARWALL ELEVATIONS

PROJECT NO.
013038000

DATE
3/1/2018

S315



1. REFER TO NOTES ON S311.

S316

STAMP



DocuSigned by:
Joshua W. Griffin
2/19/2019

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7	ISSUED FOR PRICING - PHASE 2	8/20/2018
6	ISSUE FOR PHASE 1 (PODIUM) PERMIT	7/17/2018
NUMBER	ISSUED FOR	DATE

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POOL CONS
TBD

ACOUSTICAL CONSULTANT
TRD

PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

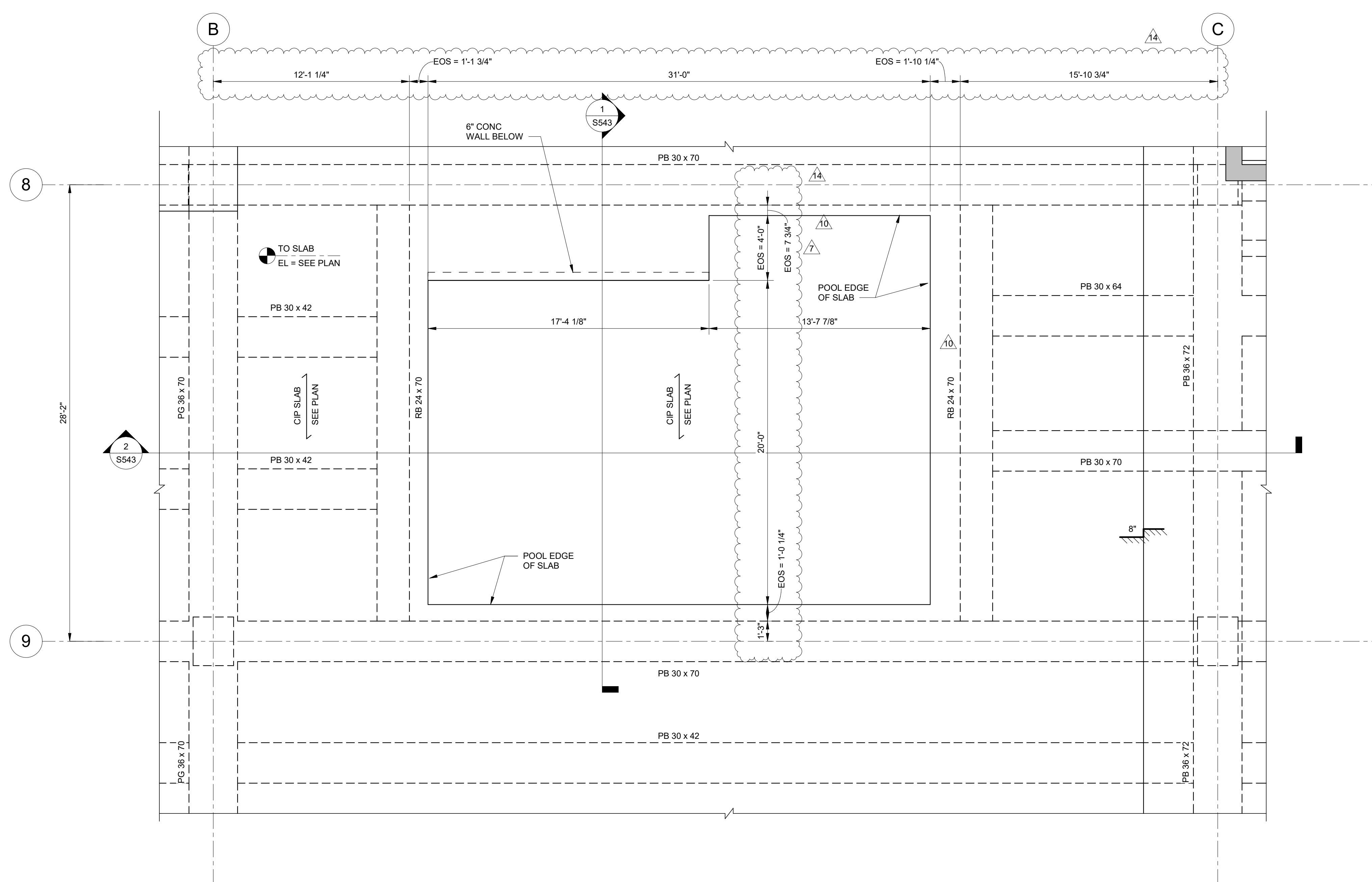
SHEET TITLE

ENLARGED POOL FRAMING PLAN

PROJECT NO.	013038000
DATE	08/08/10

S402

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1
S402

ENLARGED POOL FRAMING PLAN - AMENITY LEVEL

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0'



SCOPE OF DOCUMENT

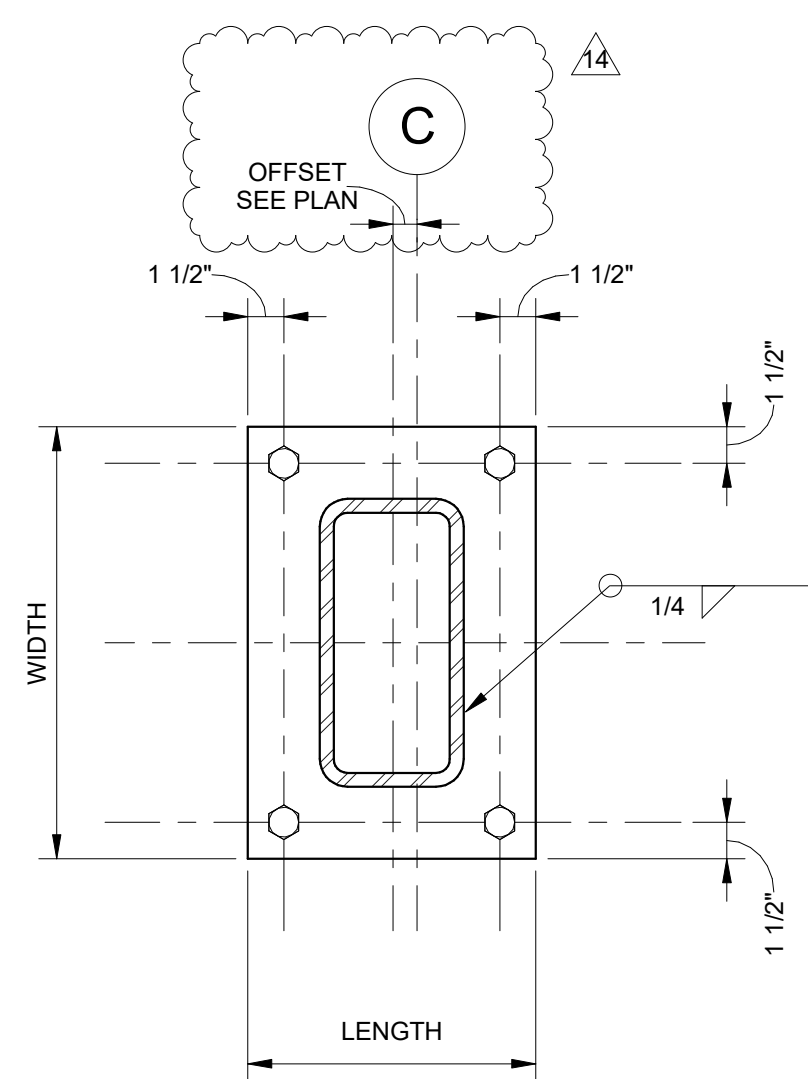
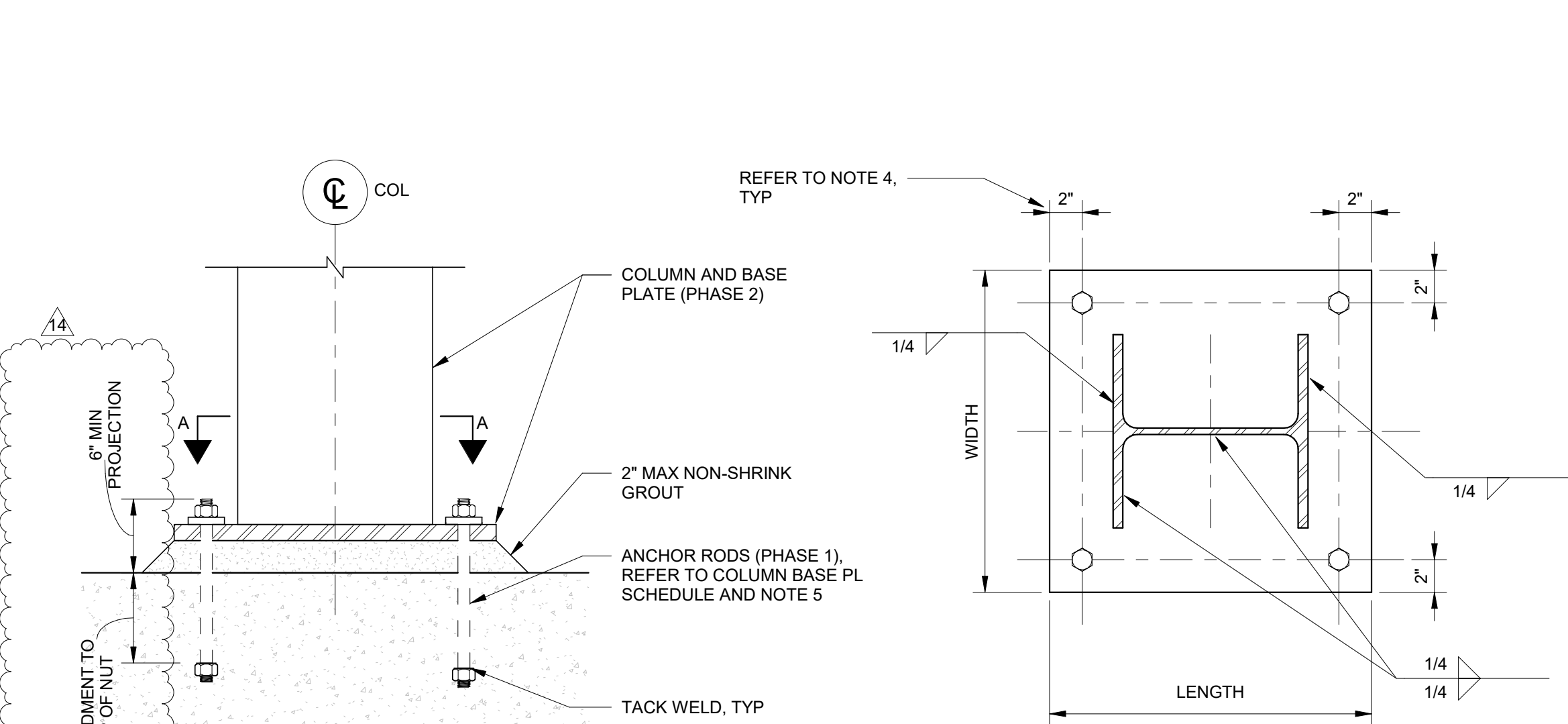
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STAMP



Designed by:
Joshua W. Griffin
EJC40A18884MF

2/19/2019



COLUMN BASE PLATE SCHEDULE			
COL LOCATION	BP SIZE (T x L x W)	ANCHORS	COMMENTS
A-2, 3, 4, 5, 6, 7, 8 B-4, 5, 6 C-2, 4	1 3/4" x 18" x 1'-6"	(4) 1" Ø x 12" EMBED	
B-2	2" x 20" x 1'-8"	(4) 1" Ø x 12" EMBED	
C-3	1 1/2" x 1'-2" x 1'-6"	(4) 1" Ø x 12" EMBED	COL IS OFFSET FROM PRIMARY GRID LINE

- NOTES:
1. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
 2. PLATE WASHERS WITH STANDARD HOLES SHALL BE INSTALLED OVER OVERSIZED HOLES. PLATE WASHERS SHALL BE WELDED TO BASE PLATE ONCE INSTALLED.
 3. CONTRACTOR SHALL PROVIDE TEMPLATE FOR ANCHOR ROD INSTALLATION.
 4. INCREASE EDGE DISTANCE TO 3" MINIMUM FOR ANCHOR ROD SIZES OF 1 1/2" DIA OR GREATER. CONFORM TO MINIMUM EDGE DISTANCE REQUIREMENTS.
 5. CONTRACTOR TO PROTECT ANCHOR BOLTS FROM WEATHER AFTER PLACEMENT, PRIOR TO PHASE 2 WORK.
 6. ANCHOR BOLTS SHALL BE ASTM F1554 GR. 50, WELDABLE.

BUILT FORM
ARCHITECTURE

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TBD

ACOUSTICAL CONSULTANT
TBD

PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

SHEET TITLE
COLUMN DETAILS

PROJECT NO.
013038000

DATE
07/06/18

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STAMP



Decommissioned by: Joshua W. Griffin
EJC0404185854F 2/19/2019

14	ISSUED FOR PHASE 1 IFC ADDENDUM 1	2/20/2019
13	ISSUE FOR PHASE 2 GMP	02/01/2019
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6	ISSUE FOR PHASE 1 (PODIUM) PERMIT	7/17/2018

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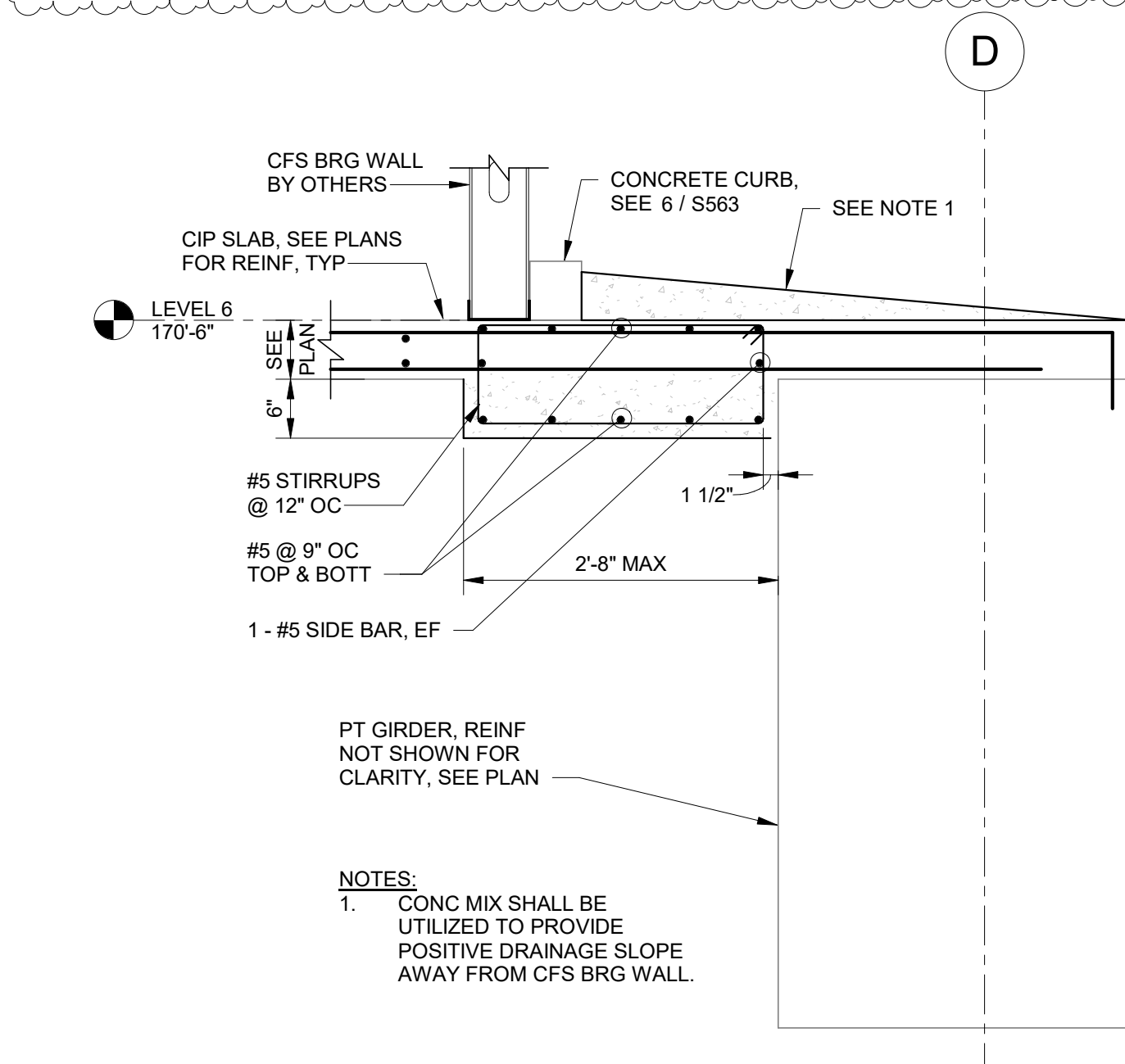
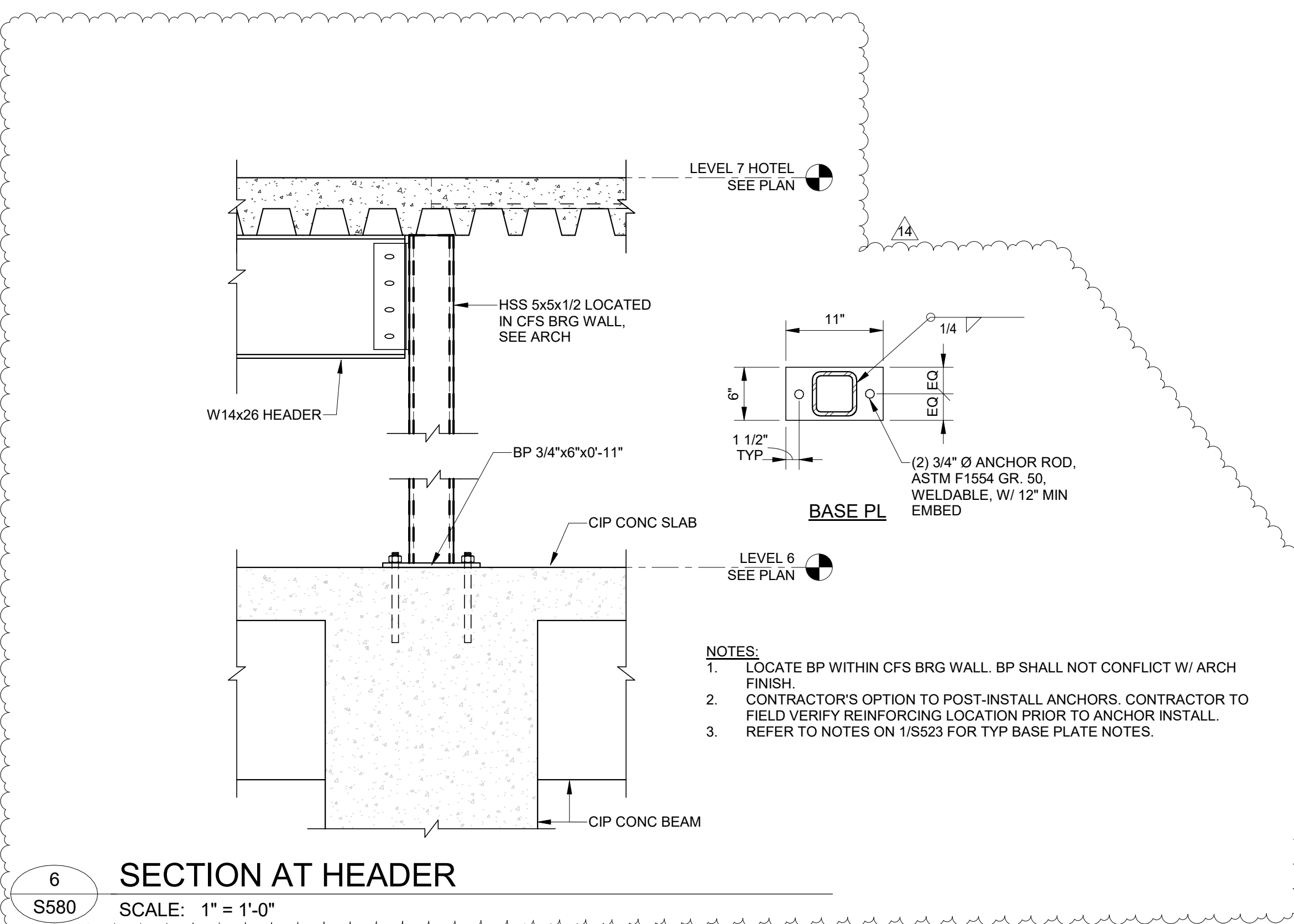
PROJECT
HAY STREET MIXED-USE DEVELOPMENT
500 Hay Street, Fayetteville, NC 28301

SHEET TITLE
FUTURE HOTEL FRAMING DETAILS

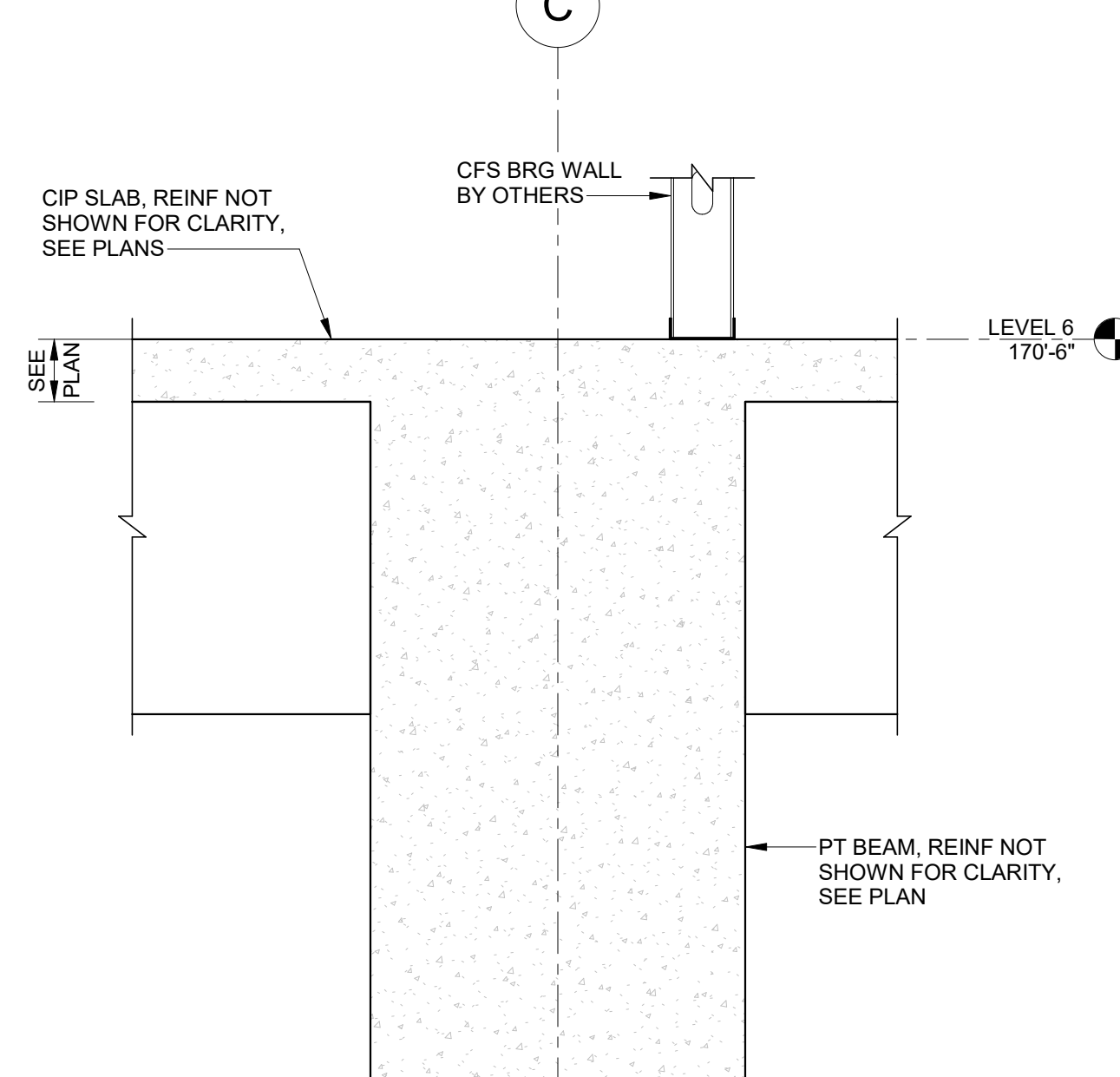
PROJECT NO.
013038000

DATE
06/20/18

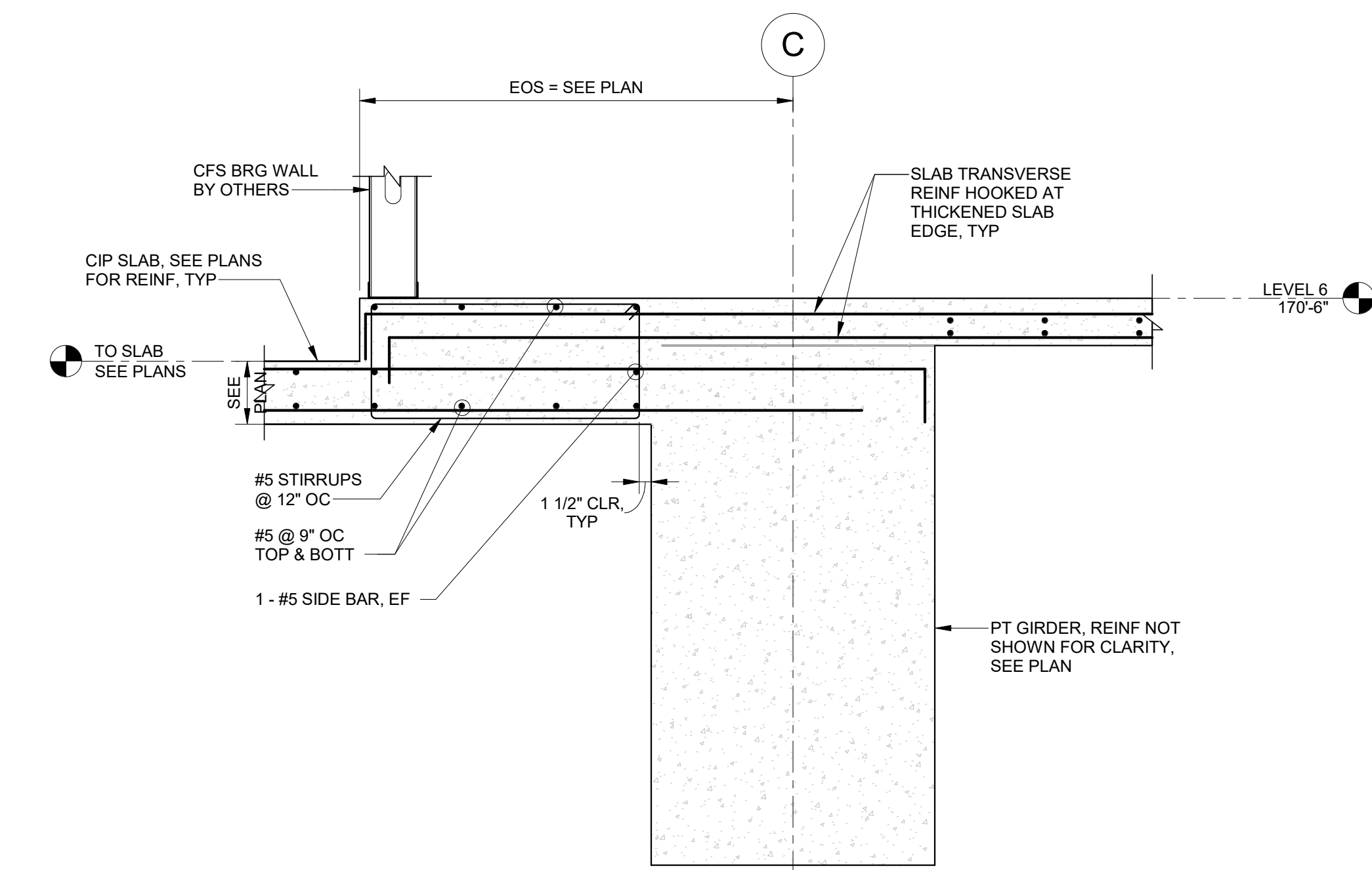
S580



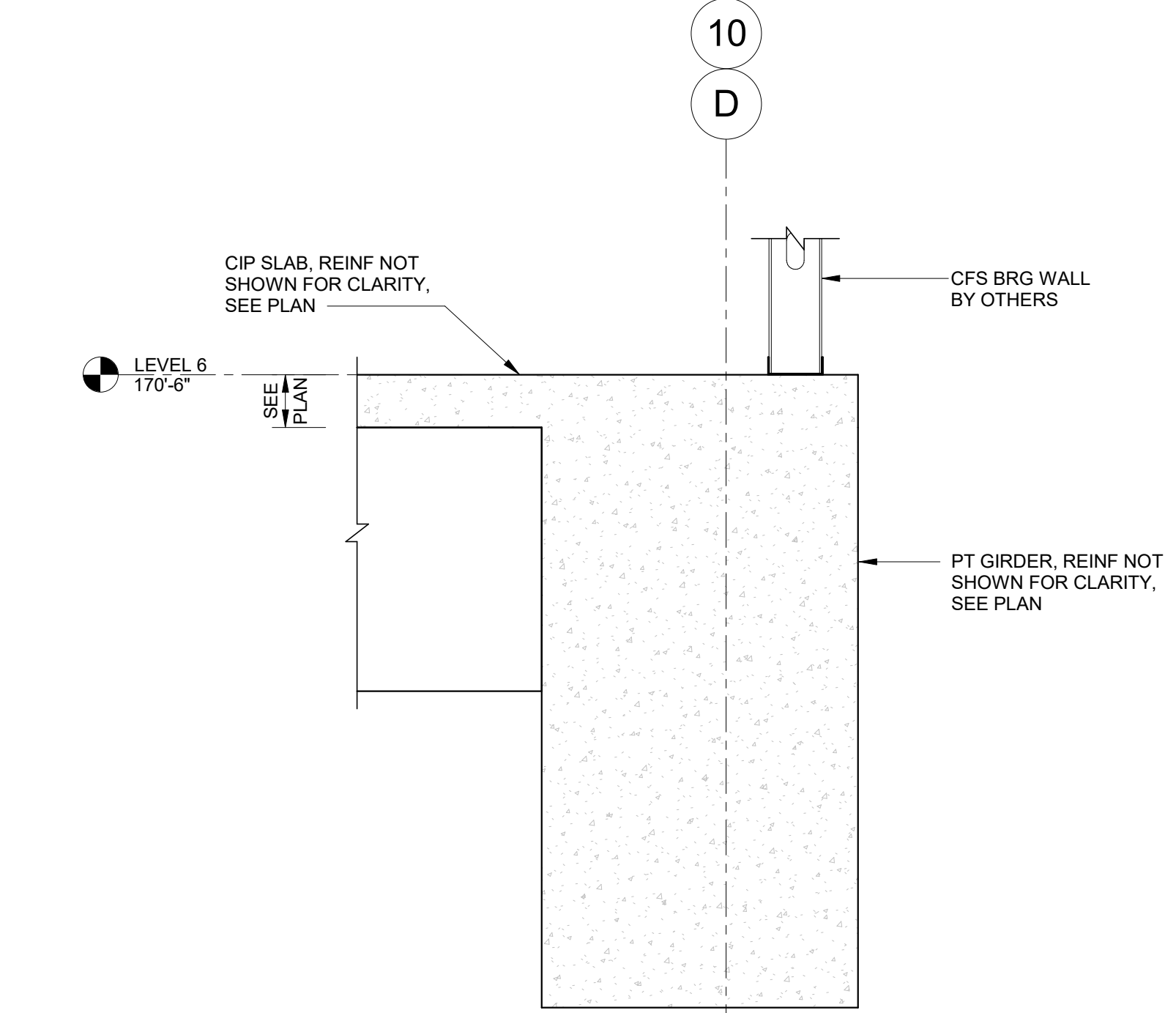
4 CFS BEARING WALL AT THICKENED SLAB EDGE DETAIL
S580 SCALE: 3/4" = 1'-0"



5 CFS BEARING WALL AT INTERIOR BEAM DETAIL
S580 SCALE: 3/4" = 1'-0"



2 CFS BEARING WALL AT SLAB STEP DETAIL
S580 SCALE: 3/4" = 1'-0"



3 CFS BEARING WALL AT EXTERIOR GIRDER DETAIL
S580 SCALE: 3/4" = 1'-0"

1 NOT USED
S580 SCALE: NTS