

CHAPEL HILL SKATE PARK



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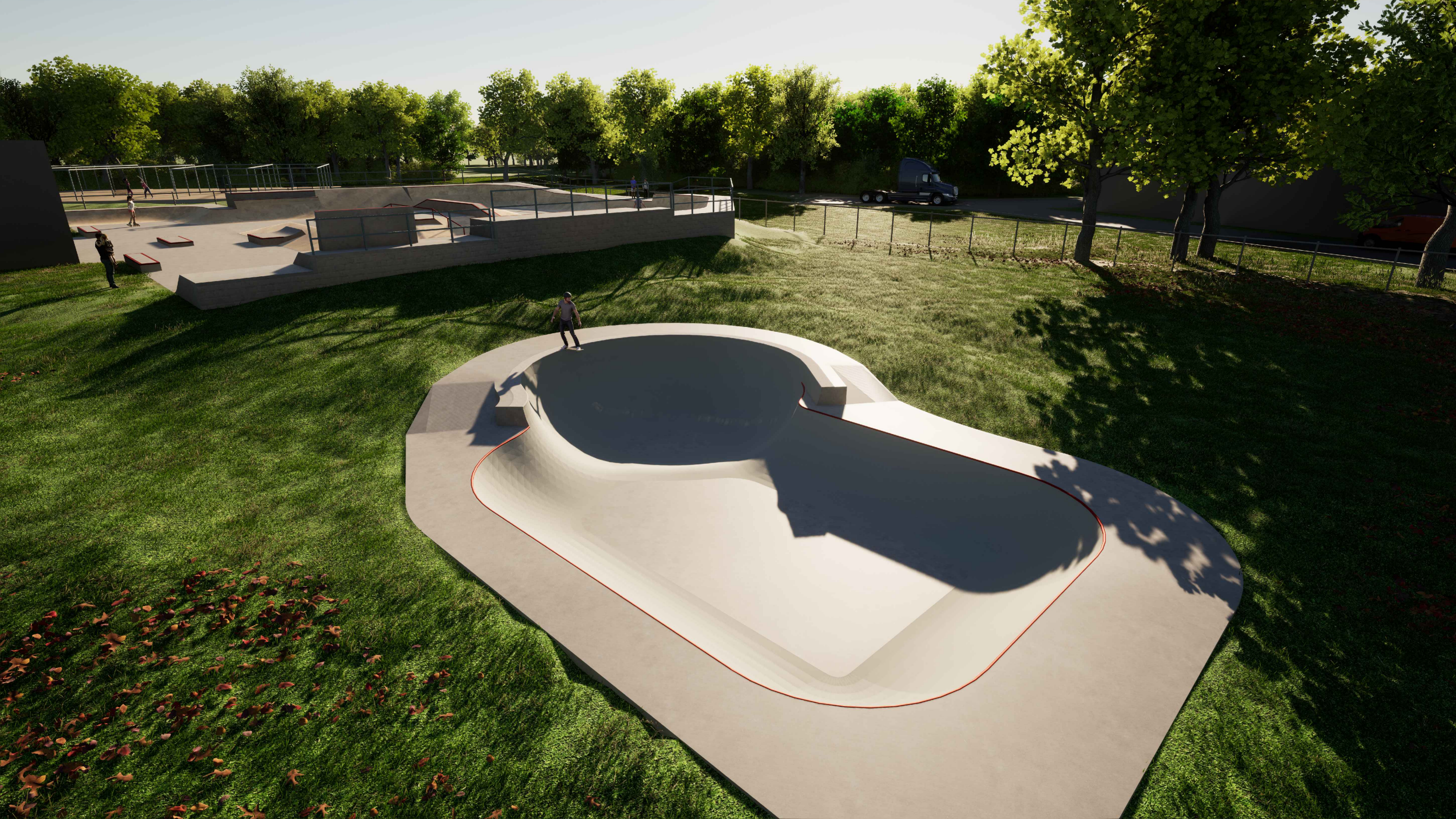
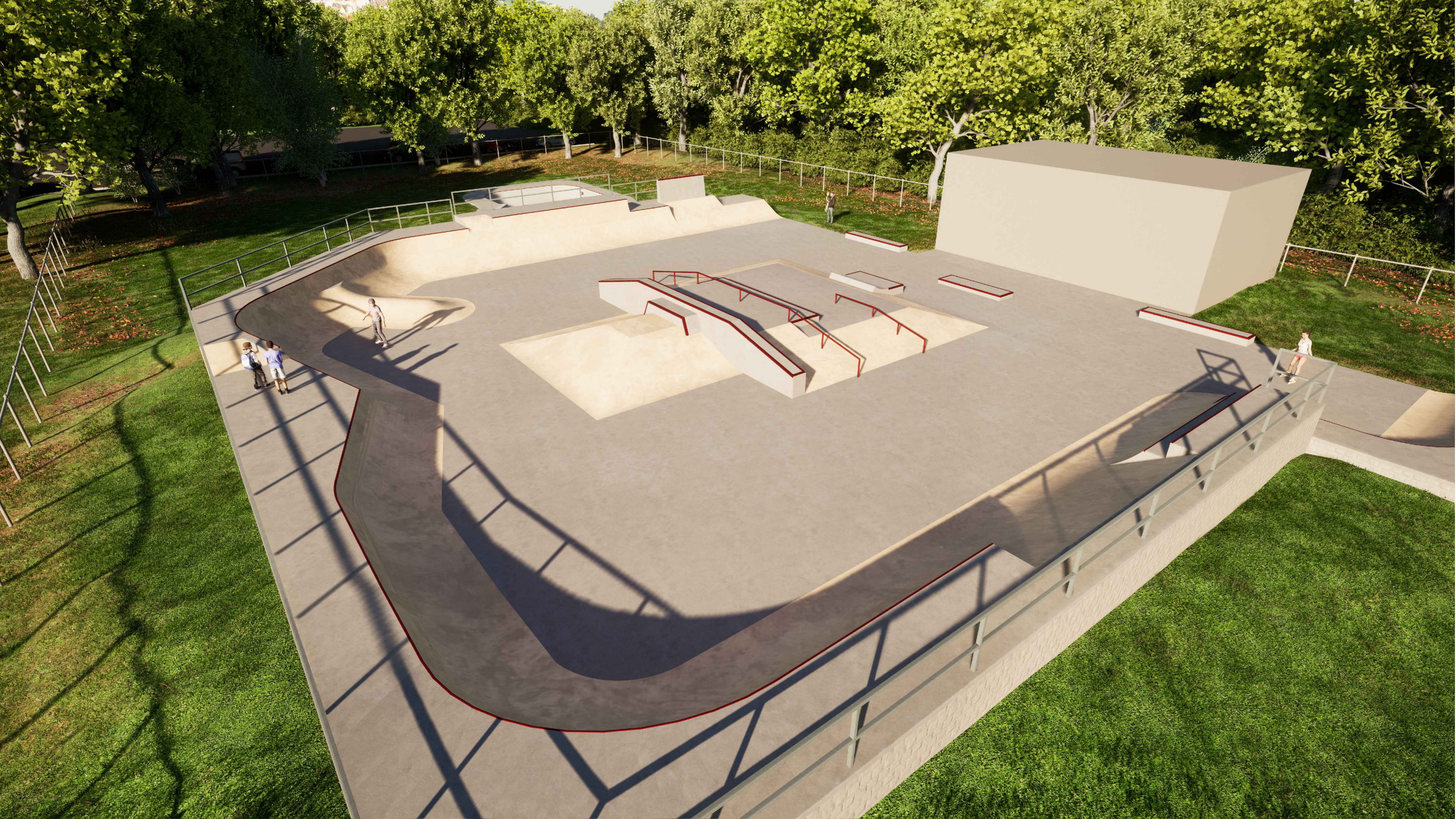
NORTH CAROLINA

GENERAL NOTES:

1. SURVEY / SITE INFORMATION IS PROVIDED BY OTHERS AND IS ASSUMED TO BE TRUE AND ACCURATE. DISCREPANCIES IN THE SURVEY ARE NOT THE FAULT OF THE DESIGNER / CONTRACTOR. FIELD ADJUSTMENTS WILL BE DETERMINED AS NEEDED WITH PRIOR APPROVAL BY THE DESIGNER. THE SURVEY SHOULD BE USED FOR PLANNING PURPOSES ONLY. EXISTING CONDITIONS SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

2. CONTRACTOR SHOULD NOT SCALE FROM DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENT. CONTRACTOR TO REPORT AND DISCREPANCIES IN THE DRAWING SET WITH THE DESIGNER FOR CLARIFICATION PRIOR TO ACTION TAKEN IN THE FIELD.

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100% FOR CONSTRUCTION

REVISIONS:

DATE NAME

ISSUE DATE: 08/04/2024

COVER

SP 000

GENERAL NOTES

1. GENERAL

- 1.1 CONSIDER GENERAL NOTES AS APPLYING TO ALL DRAWINGS
- 1.2 NOTIFY DESIGNER OF ANY DISCREPANCIES TO THESE PLANS
- 1.3 PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE, AND/OR LOCAL BUILDING CODES
- 1.4 THE SKATE PARK DESIGNER SHALL HAVE NO CONTROL OR CHARGE OF, NOR BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY PERSON PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT HE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- 1.5 PROVIDE SPECIAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:
 - 1.5.1 PLACEMENT OF REINFORCING STEEL.
 - 1.5.2 TAKING OF TEST SPECIMENS, IF REQUIRED, AND PLACING ALL CONCRETE.
 - 1.5.3 BOLTS IN CONCRETE
 - 1.5.4 TAKING OF TEST SPECIMENS, IF REQUIRED, AND PLACING ALL SHOTCRETE
- 1.6 THE CONTRACTOR SHALL WARRANTY THEIR WORK FOR ONE YEAR AFTER PROJECT COMPLETION.
- 1.7 THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACCURACY OF THEIR WORK

2. CONCRETE WORK

- 2.1 CONCRETE MIXES SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS, REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. MIX DESIGNS SHALL BE SUBMITTED TO THE SKATE PARK DESIGNER FOR APPROVAL BEFORE USE. DESIGNS SHALL SHOW PROPORTIONS OF CEMENT, FINE AND COARSE AGGREGATES AND WATER AND GRADATION OF COMBINED AGGREGATES.
- 2.2 CEMENT: ASTM C150 CEMENT SHALL BE OF SAME BRAND, TYPE AND SOURCE THROUGHOUT PROJECT. WHERE AGGREGATES ARE POTENTIALLY REACTIVE, USE LOW AKALI CEMENT
- 2.3 AGGREGATES SHALL CONFORM TO ASTM C33
- 2.4 ADMIXTURES AT DISCRETION OF THE CONTRACTOR. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM
- 2.5 CONCRETE MIX DESIGN:
 - 2.5.1 PROVIDE MIX DESIGNS HAT WILL MEET THE MINIMUM REQUIREMENTS LISTED BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:
 - 4000 PSI- MIN 28 DAY COMPRESSIVE STRENGTH**
 - 480 LBS - MIN. CEMENT CONTENT**
 - 4"- MAX SLUMP**
 - 1" MAX AGG. SIZE**
 - 1.5-3%- MAX AIR ENTRAINING**
- 2.6 SHOTCRETE MIX DESIGN
 - 4000 PSI- MIN 28 DAY COMPRESSIVE STRENGTH**
 - 600 LBS - MIN. CEMENT CONTENT**
 - 2"- MAX SLUMP**
 - 3/8" MAX AGG. SIZE**
 - 1.5-3%- MAX AIR ENTRAINING**
- 2.6.1 ACI STANDARD 506, LATEST EDITION, "SPECIFICATION FOR MATERIALS, PROPORTIONING AND APPLICATION OF SHOTCRETE" AND ACI 506.2, LATEST EDITION, "RECOMMENDED PRACTICES FOR SHOTCRETING" SHALL BE FOLLOWED
- 2.6.2 MIX DESIGNS FOR SHOTCRETE CONTAINING FLY ASH SHALL BE BY AN INDEPENDENT TESTING LABORATORY. ONLY ASTM C618 CLASS F FLY ASH SHALL BE USED. THE AMOUNT OF THE FLY ASH USED SHALL NOT EXCEED 20% BY WEIGHT OF THE COMBINED WEIGHT OF FLY ASH PLUS CEMENT
- 2.6.3 PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED BELOW. INCREASE CEMENT CONTENT OVER THAT SHOWN, IF REQUIRED TO OBTAIN THE COMPRESSIVE STRENGTH:
- 2.6.4 SURFACES SHALL BE BY WET AND DAMP DRYING PROCESS JUST PRIOR TO SHOTCRETE APPLICATION
- 2.6.5 ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE SHALL BE REMOVED FROM THE SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR NY SUCCEEDING LAYERS OF SHOTCRETE. REBOUND SHALL NOT BE REUSED AS AGGREGATE.

3. REINFORCING

- 3.1. SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING CONCRETE OR GROUT
- 4. STRUCTURAL STEEL
 - 4.1 SCHEDULE 40 PIPE
 - 4.2. ASTM A-36 FOR ANGLES
- 5. STRUCTURAL STEEL & REINFORCEMENT WELDING
 - 5.1. ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS.
 - 5.2 WELDING RODS TO BE OW HYDROGEN TYPE, E70 SERIES, PER AWS D1.1 TYPICALLY EXCEPT E-6010 SERIES FOR STEEL SHEET METAL PER AWS D1.3 ND REINFORCING ELDMENTS PER AWS D1.4 USE E80 SERIES WELDING RODS FOR A706 REBAR
 - 5.3 FIELD INDICATED WELDS MAY BE DONE IN THE SHOP, AND SHOP INDICATED WELDS MAY BE DONE IN FIELD IF APPROVED PRIOR TO CONSTRUCTION
- 6. SUPPLEMENTARY NOTES

- 2.6.6 JOINTS IN WALL POURS ARE PERMISSABLE. AT JOINTS SHOTCRETE SHALL BE SLOPED TO A THIN EDGE. BEFORE PLACING DDITIONAL MATERIAL, ALL SURFACES SHALL BE THOROUGHLY CLEANED AND WETTED AND ALL REINFORCING STEEL SHALL BE BRUSHED FREE OF LATENT MATERIAL.
- 2.6.7 ANY IN-PLACE SHOTCRETE MATERIAL WHICH EXHIBITS SAGS OR SLOUGHS, SEGREGATION, HONEYCOMBING, SAND POCKETS OR OTHER OBVIOUS DEFECTS SHALL BE REMOVED AND REPLACED.
- 2.6.8 TESTING AND INSPECTION OF INPLACE SHOTCRETE SHALL BE IN ACCORDANCE WITH 2012 IBC.
- 2.7 CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCHING AND SHALL NOT EXCEED A TEMPERATURE OF 90° F (32°C) UNLESS PRE-APPROVED BY THE SKATE PARK CONCRETE DESIGNER.
- 2.9 DURING THE CURING PERIOD, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 40°F AND IN MOIST CONDITION. FOR INITIAL CURING, CONCRETE SHALL BE KEPT MOIST FOR 24 HOURS AFTER PLACEMENT IS COMPLETE. FINAL CURING SHALL CONT. FOR SEVEN DAYS AFTER PLACEMENT AND SHALL CONSIST OF APPLICATION OF CURING COMPOUND PER ASTM C309. APPLY AT A RATE SUFFICIENT TO RETAIN MOISTURE, BUT NOT LESS HAN 1 GALLON[4.55l] PER 200 SQUARE FEET [18.58m²2]
- 2.10 THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 1/16" 2.11 ALL CONCRETE WHICH DURING THE LIFE OF THE STRUCTURE WILL BE SUBJECTED TO FREEZING TEMPERATURES WHILE WET, SHALL HAVE A WATER TO CEMENT RATIO NO EXCEEDING 0.53 BY WEIGHT AND SHALL CONTAIN ENTRAINED AIR AS PER ACI 301. SUCH CONCRETE SHALL INCLUDE EXTERIOR SLABS, PERIMETER FOUNDATIONS, EXTERIOR CURBS AND GUTTERS, ETC.
- 2.12 CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF UBS SECTION 1906.
- 2.13 UST INTERMEDIATE GRADE ASTM A615, GRADE 60 FOR ALL REINFORCING. USER ASTM A706, GRADE 60 FOR ALL REINFORCING THAT IS TO BE WELDED. USEA108 GRADE 60 FOR ALL WELDED ANCHORS REFER TO AWS SPEC FOR WELDING WITHOUT PREHEAT. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH ALL BUILDING CODES.
- 2.14 ALL WELDED WIRE FABRIC REINFORCING SHALL BE ASTM A185 GRADE 65. LAP OF AT LEAST TWO CROSS WIRES
- 2.15 OBSERVE FOLLOWING REINFORCEMENT CLEARANCES:
 - 3" AT SURFACES POURED AGAINST EARTH
 - 2" AT FORMED SURFACES EXPOSED TO EARTH OR WEATHER
 - 1-1/2" AT OTHER SURFACES EXCEPT WHERE SHOWN OTHERWISE
- 2.16 SECURE REINFORCING ANCHOR BOLTS, INSERTS, ETC. RIGIDLY IN PLACE PRIOR TO POURING CONCRETE
- 2.17 SUPPORT HORIZONTAL REINFORCING FOOTINGS AND SLABS ON GRADE
- 2.18 REMOVE FORMS AT FOLLOWING MINIMUM TIMES AFTER POURING : AT SLAB EDGES - 24 HOURS; AT WALLS LESS THAN 4'-0" HIGH - 36 HOURS
- 2.19 MAKE HOOKS ACI 318-99 STANDARD HOOKS UNLESS OTHERWISE NOTED. PROVIDE 135 DEGREE MINIMUM TURN, PLUS 4" EXTENSION AT FREE ENDS OF COLUMN PILASTER TIES.
- 2.20 MAKE LAPS CONTACT SPLICES, DEVELOPMENT LENGTHS, HOOK EMBEDMENTS PER ACI 318-99, UNLESS OTHERWISE NOTED. STAGGER LAP SPLICES WHERE POSSIBLE.
- 2.21 ALL REBAR SHALL BE COLD BENT
- 2.22 STUB REBAR OUT FROM BOTTOM FORM 18". SLIP DOWELS MAY ALSO BE USED AT CONTRACTORS DISCRETION
- 2.23 MINIMUM CLEARANCE BETWEEN PARALLEL REINFORCEMENT BARS SHALL BE 2-1/2" [6.35cm]. LAP SPLICES IN REINFORCING BARS SHALL BE Y THE NONCONTACT LAP SPLICE METHOD WITH AT LEAST 2" [5.08cm] CLARENCE BETWEEN BARS
- 2.24 AGGREGATE BASE COURSE TO BE 4" [10.16cm] OF COMPACTED 1" [2.54cm] CRUSHED LIMESTONE AND SUBGRADE TO BE 95% COMPACTED NATIVE SOIL AND/OR ENGINEERED FILL. IF THESE GUIDELINES CONFLICT WITH THE GEO-TECHNICAL REPORT, THE CONTRACTOR TO FOLLOW THE MORE STRINGENT OF THE TWO GUIDELINES.

- 6.1 THESE CONTRACT DOCUMENT AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. HEY DO NOT INDICATE HE METHODS OF CONSTRUCTION. HE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURE SHALL INCLUDE, BUT NOT LIMITED TO, MEANS ND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. OBSERVATION VISITS TO HE SITE BY THE STRUCTURAL ENGINEER OR STRUCTURAL OBSERVERS SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- 6.2 REINFORCING OR THREADED RODS DRILLED AND EPOXIED INTO EXISTING AS DETAILED ON THE DRAWINGS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT
 - 6.2.1 ICBO #5193: HILTY HY-150
 - 6.2.2 ICBO #4285 ITW RAMSET EPCON CERAMIC 6
 - 6.2.1 ICBO #4846 COVERT CIA GEL EPOXY
 - 6.2.4 ICBO #5279 SIMPSON EPOXY-TIE SET

- 6.3 INSTALLATION OF EPOXIED DOWELS SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ICBO REPORT AND HAVE A MINIMUM 9 DIAMETERS EMBEDMENT
- 6.4. INSTALLATION SHALL FOLLOW HE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ICBO REPORT. CONTRACTOR SHALL HAVE APPROPRIATE ICBO REPORT ONSITE DURING ALL INSTALLATIONS

STRUCTURAL NOTES

3. REINFORCING

- 3.1. SECURELY TIE ALL REBAR, INCLUDING DOWELS, IN LOCATION BEFORE PLACING CONCRETE OR GROUT

4. STRUCTURAL STEEL

- 4.1 ASTM A-53 GRADE B OR A-501 FOR STEEL PIPE COPING
- 4.2. ASTM A-36 FOR ANGLES

5. STRUCTURAL STEEL & REINFORCEMENT WELDING

- 5.1. ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS.
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100% FOR CONSTRUCTION

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GENERAL NOTES

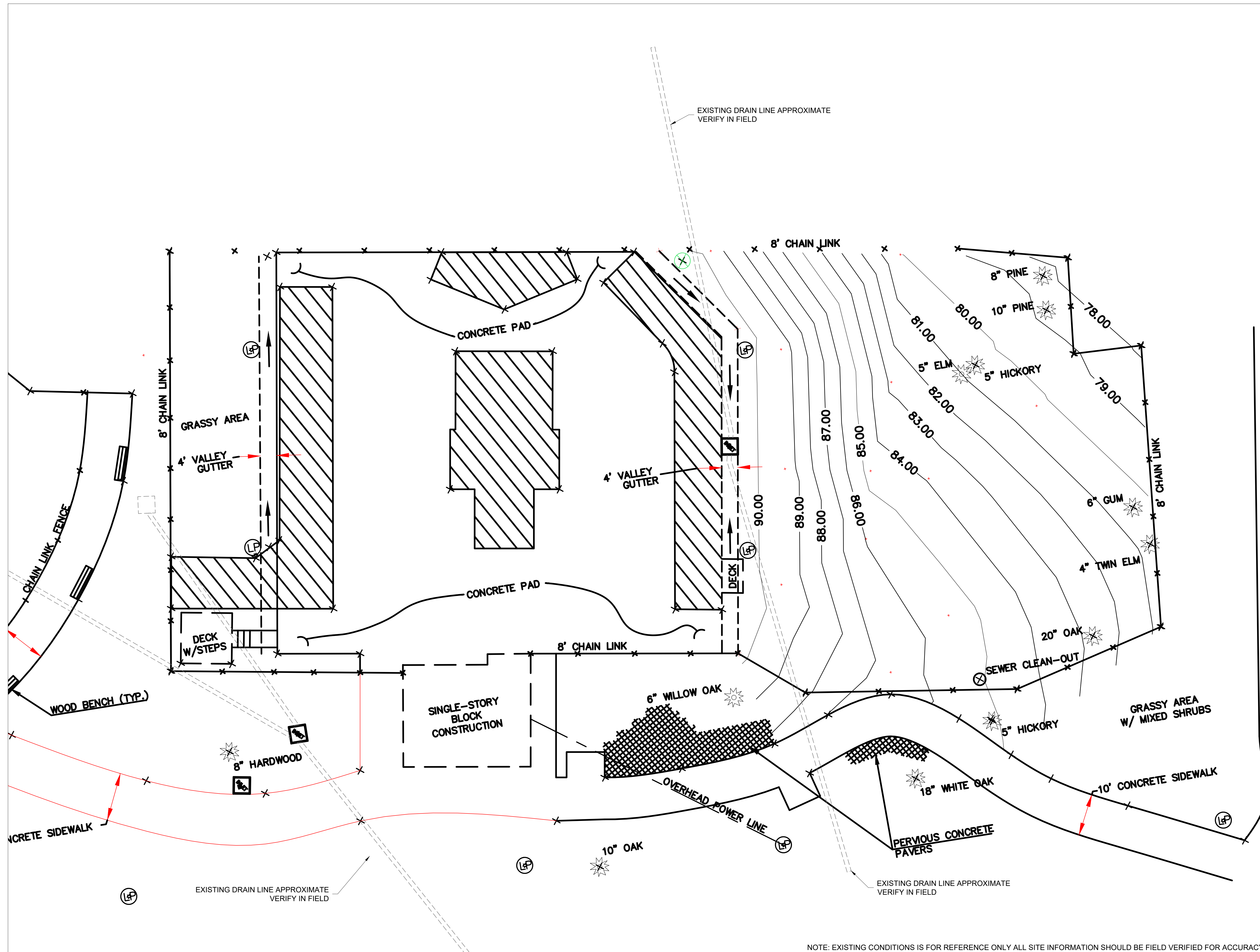
SP 001



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SCALE: 1"=10'-0"



**EXISTING
CONDITIONS
(REF)**

SP 002

NOTE: EXISTING CONDITIONS IS FOR REFERENCE ONLY ALL SITE INFORMATION SHOULD BE FIELD VERIFIED FOR ACCURACY



CHAPEL HILL SKATE PARK

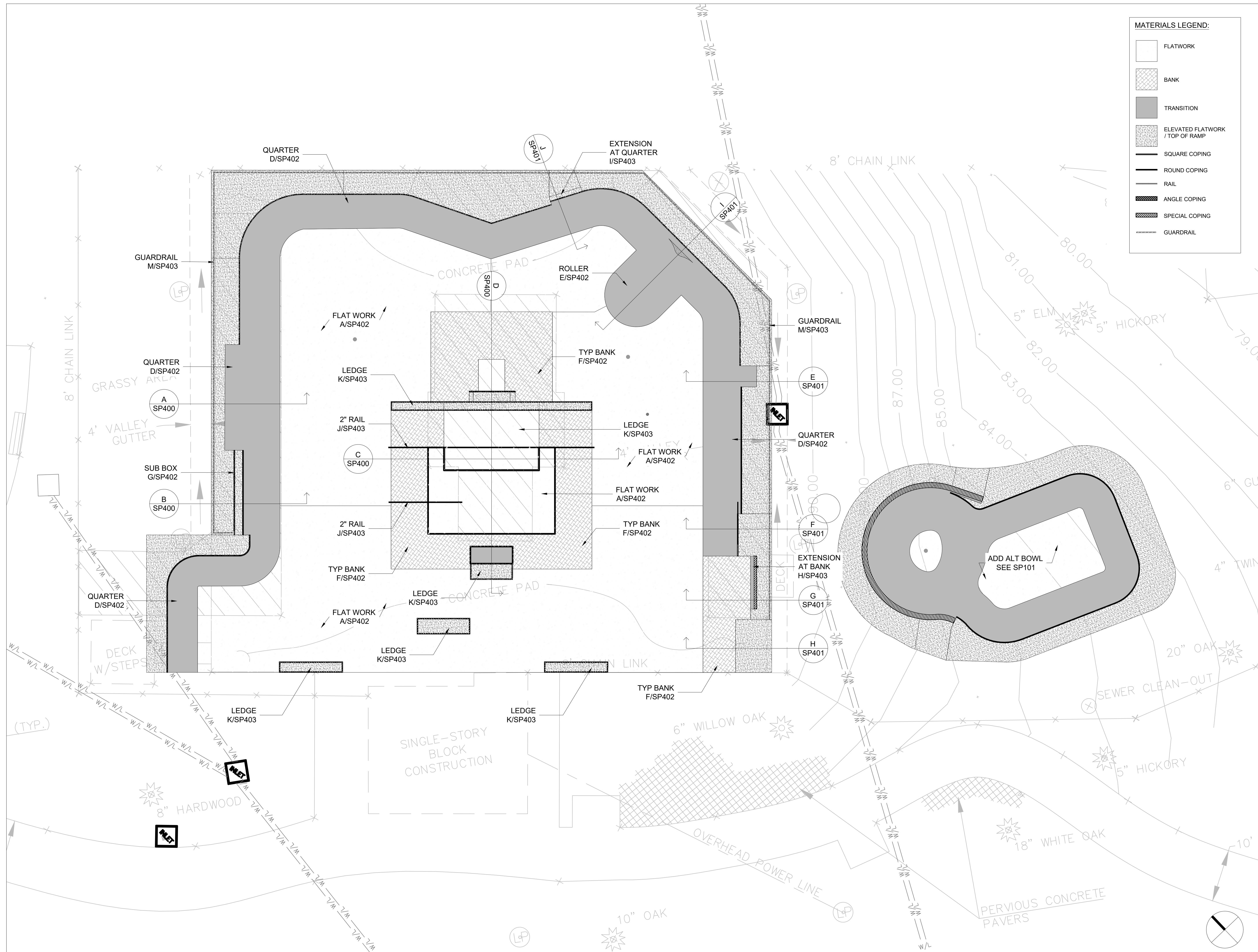
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MATERIALS LEGEND:

[Blank Box]	FLATWORK
[Cross-hatched Box]	BANK
[Solid Grey Box]	TRANSITION
[Dotted Box]	ELEVATED FLATWORK / TOP OF RAMP
[Line with Square]	SQUARE COPING
[Line with Circle]	ROUND COPING
[Line with Triangle]	RAIL
[Line with Diamond]	ANGLE COPING
[Line with Square]	SPECIAL COPING
[Line with Circle]	GUARDRAIL



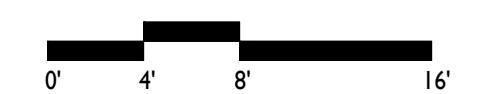
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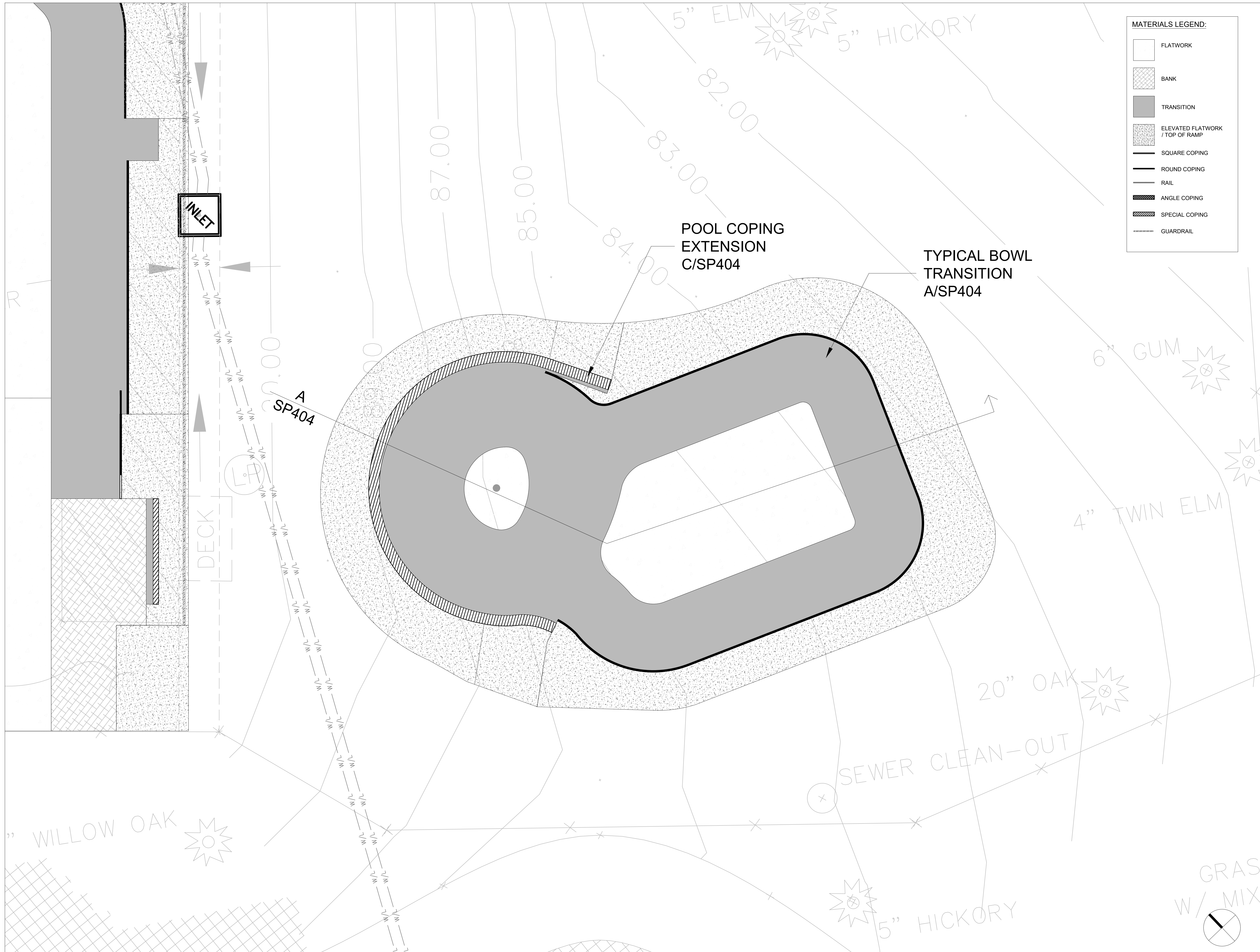
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SCALE: 1/4"=1'-0"



SITE PLAN

SP 100



MATERIALS LEGEND:

	FLATWORK
	BANK
	TRANSITION
	ELEVATED FLATWORK / TOP OF RAMP
	SQUARE COPING
	ROUND COPING
	RAIL
	ANGLE COPING
	SPECIAL COPING
	GUARDRAIL



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NORTH CAROLINA

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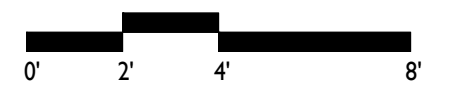
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REVISIONS:

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ADD ALT BOWL PLAN

SP 101



CHAPEL HILL SKATE PARK

NORTH CAROLINA

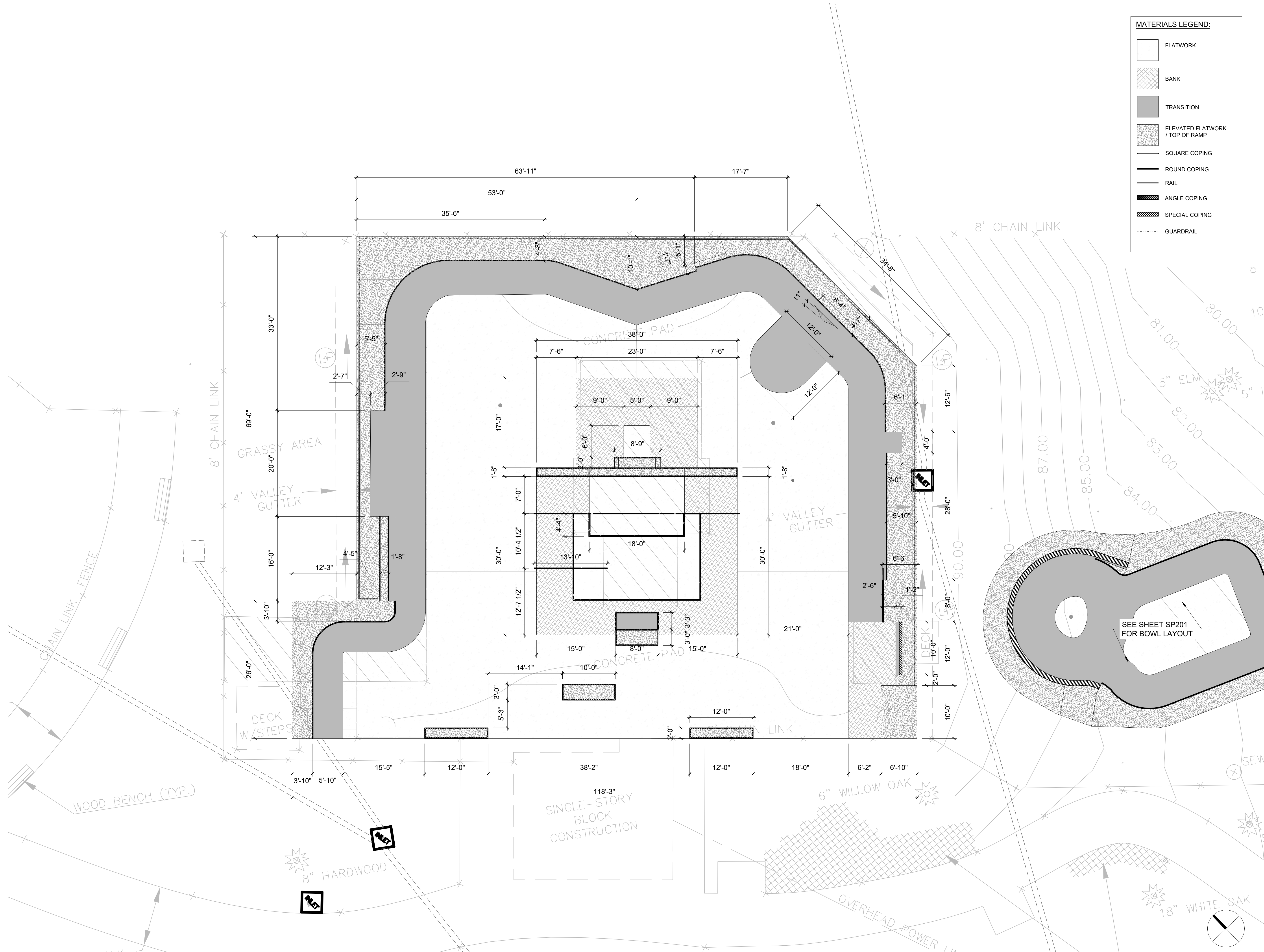
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	FLATWORK
	BANK
	TRANSITION
	ELEVATED FLATWORK / TOP OF RAMP
	SQUARE COPING
	ROUND COPING
	RAIL
	ANGLE COPING
	SPECIAL COPING
	GUARDRAIL



SEE SHEET SP201 FOR BOWL LAYOUT

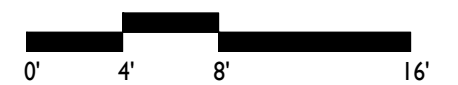
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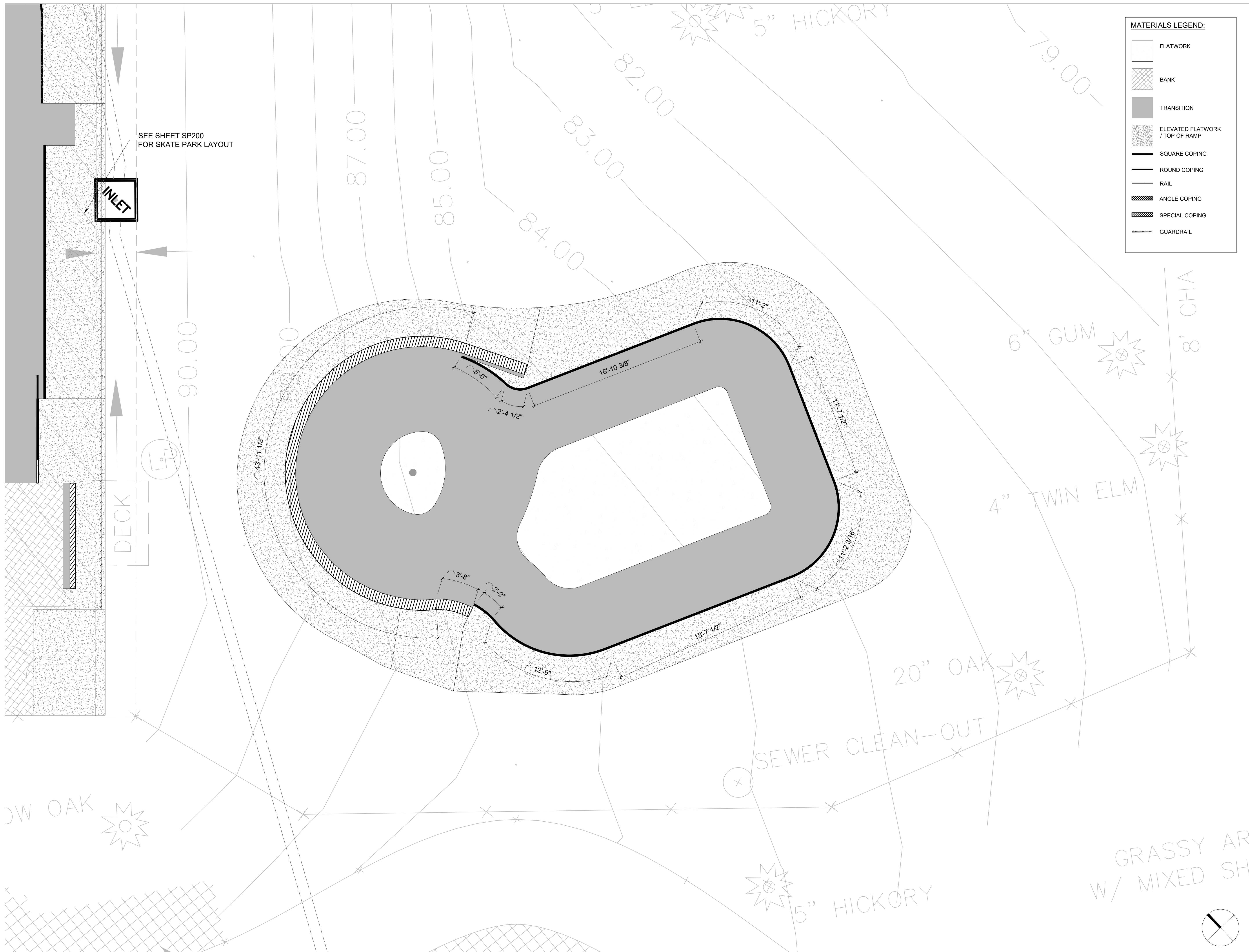
ISSUE DATE: 08/04/2024

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



SKATE PARK LAYOUT

SP 200



MATERIALS LEGEND:

- FLATWORK
- BANK
- TRANSITION
- ELEVATED FLATWORK / TOP OF RAMP
- SQUARE COPING
- ROUND COPING
- RAIL
- ANGLE COPING
- SPECIAL COPING
- GUARDRAIL



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ADD ALT BOWL LAYOUT

SP 201



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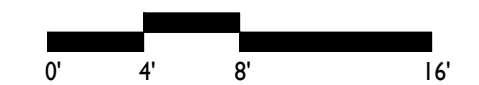
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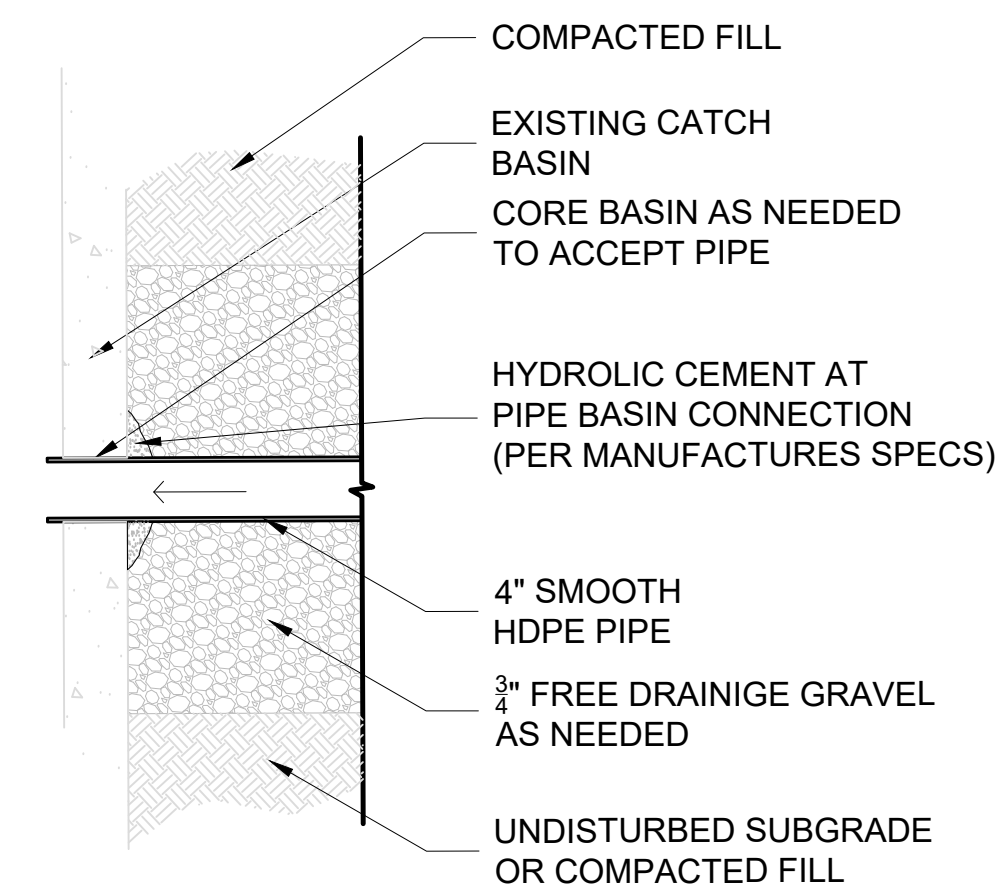
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SCALE: 1"=1'-0"



**SKATEPARK
GRADING AND
DRAINAGE
SP 300**

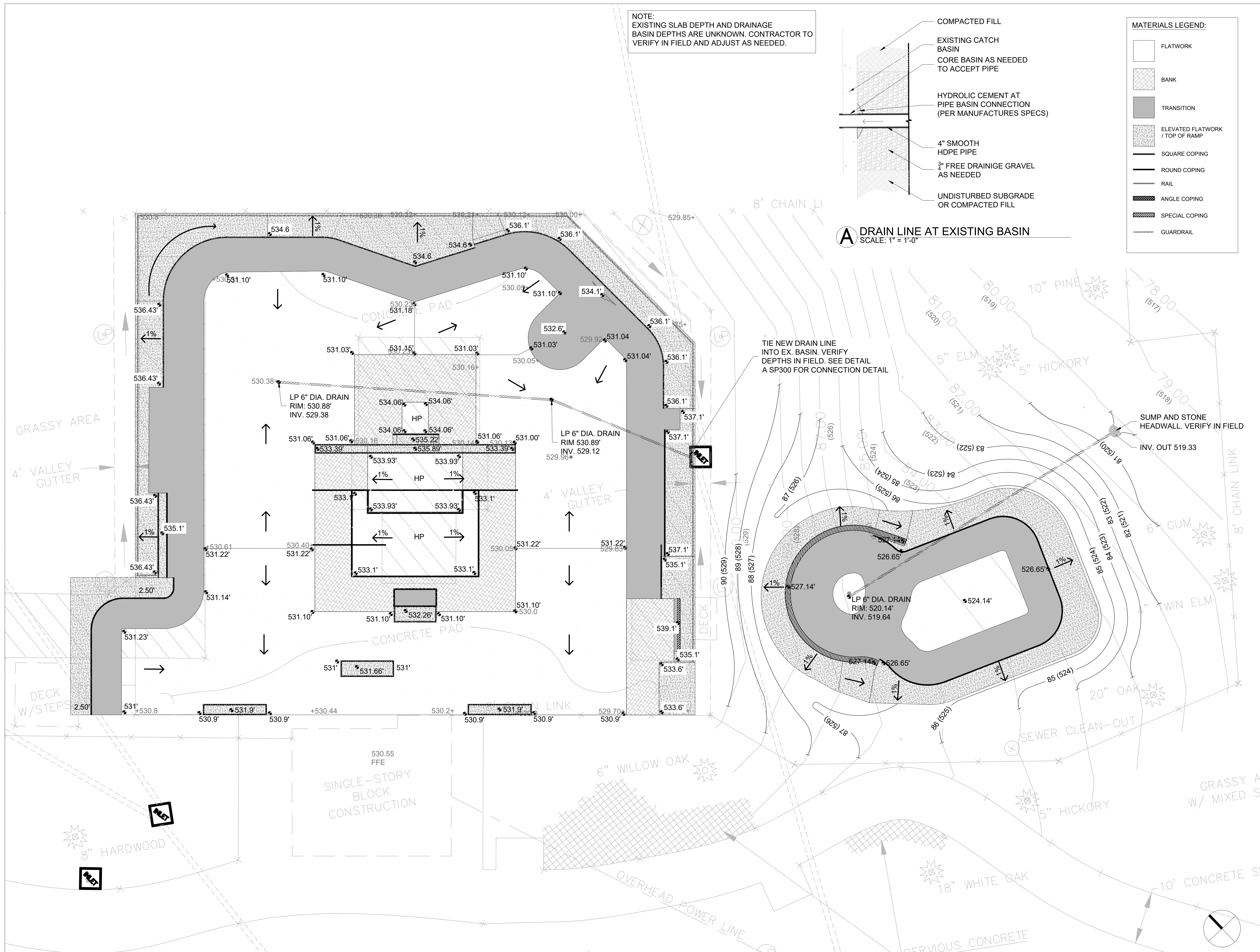
NOTE:
EXISTING SLAB DEPTH AND DRAINAGE
BASIN DEPTHS ARE UNKNOWN. CONTRACTOR TO
VERIFY IN FIELD AND ADJUST AS NEEDED.



A DRAIN LINE AT EXISTING BASIN
SCALE: 1"=1'-0"

MATERIALS LEGEND:

- FLATWORK
- BANK
- TRANSITION
- ELEVATED FLATWORK / TOP OF RAMP
- SQUARE COPING
- ROUND COPING
- RAIL
- ANGLE COPING
- SPECIAL COPING
- GUARDRAIL



TIE NEW DRAIN LINE
INTO EX. BASIN. VERIFY
DEPTHS IN FIELD. SEE DETAIL
A SP300 FOR CONNECTION DETAIL

SUMP AND STONE
HEADWALL. VERIFY IN FIELD
INV. OUT 519.33

GRASSY AREA
4' VALLEY
GUTTER

6" WILLOW OAK

SEWER CLEAN-OUT

GRASSY A
W/ MIXED S

OVERHEAD POWER LINE

18" WHITE OAK

PERVIOUS CONCRETE

SINGLE-STORY
BLOCK
CONSTRUCTION

DECK
W/STEPS

DECK

CONCRETE PAD

CONCRETE PAD

4' VALLEY
GUTTER

4' VALLEY
GUTTER

4' VALLEY
GUTTER

4' VALLEY
GUTTER

4' VALLEY
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4' VALLEY
GUTTER

4' VALLEY
GUTTER

4' VALLEY
GUTTER

4' VALLEY
GUTTER



**CHAPEL HILL
SKATE PARK**
NORTH CAROLINA

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100% FOR CONSTRUCTION

REVISIONS:

#	DATE	NAME

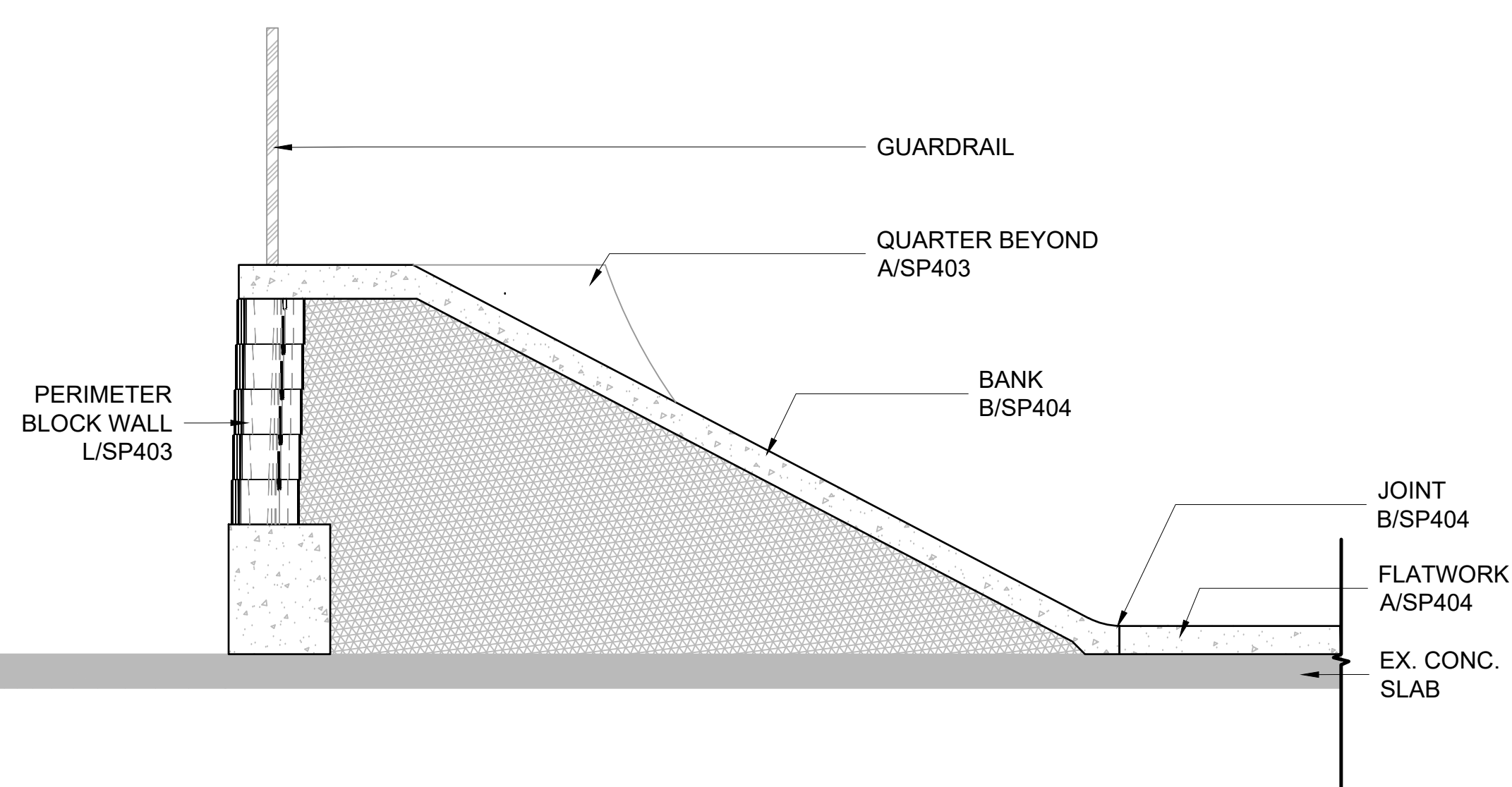
ISSUE DATE: 08/04/2024

SCALE NOTED

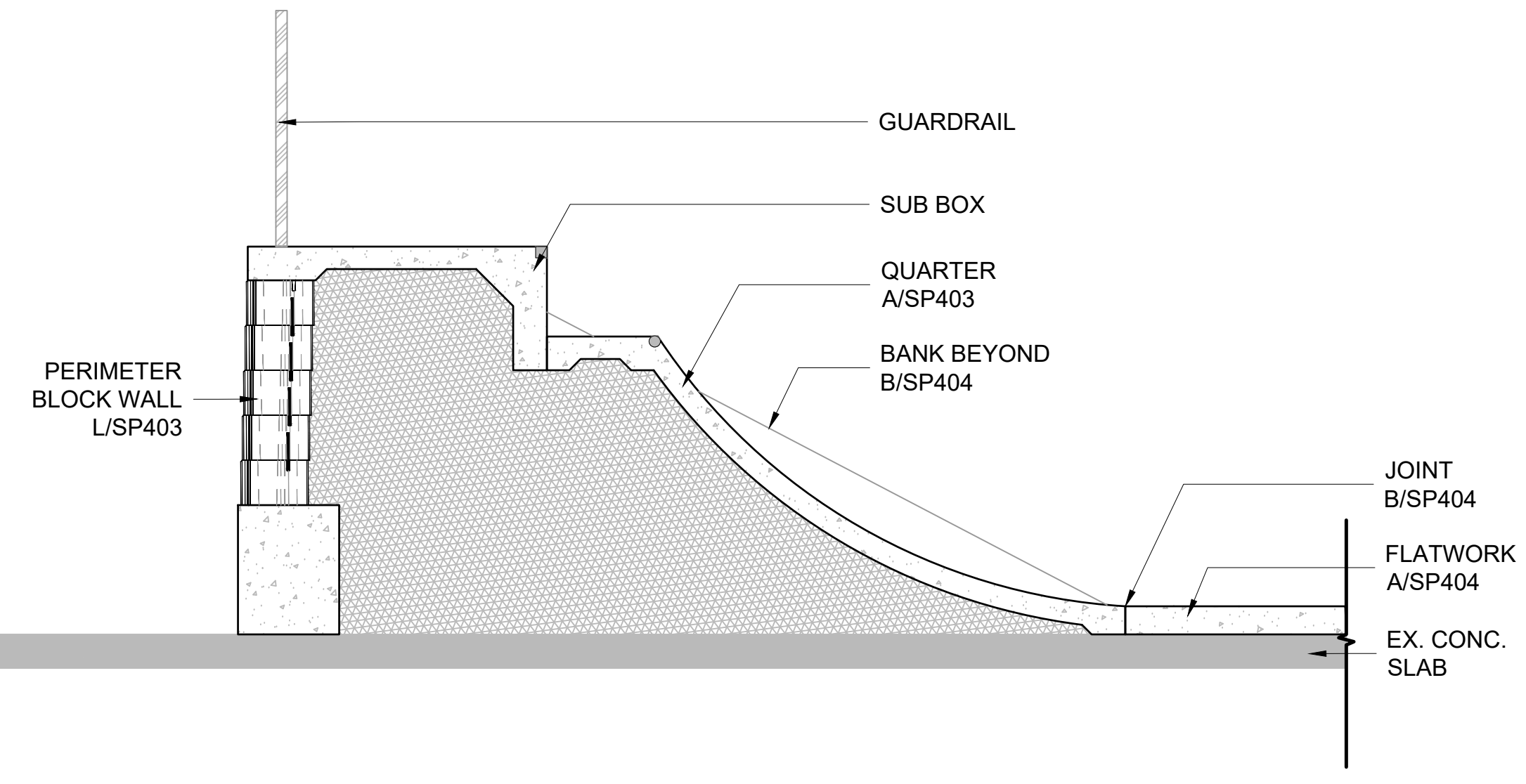


SECTIONS I

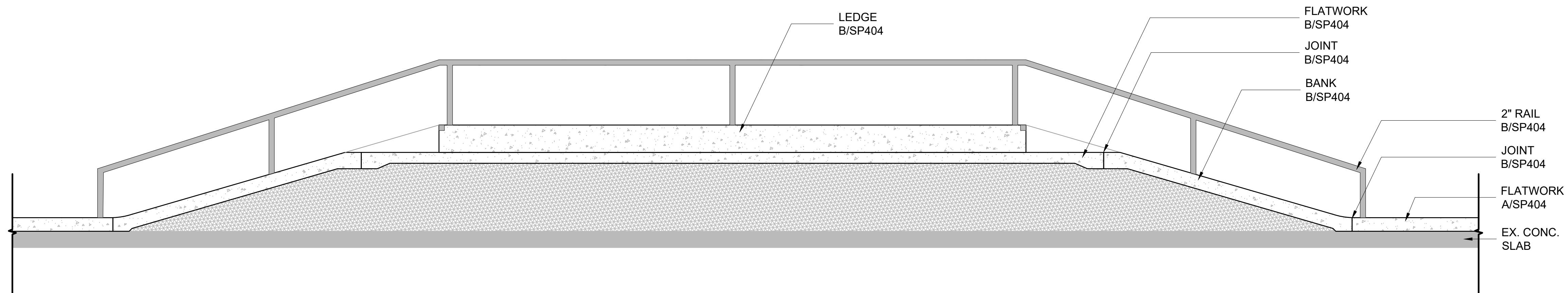
SP 400



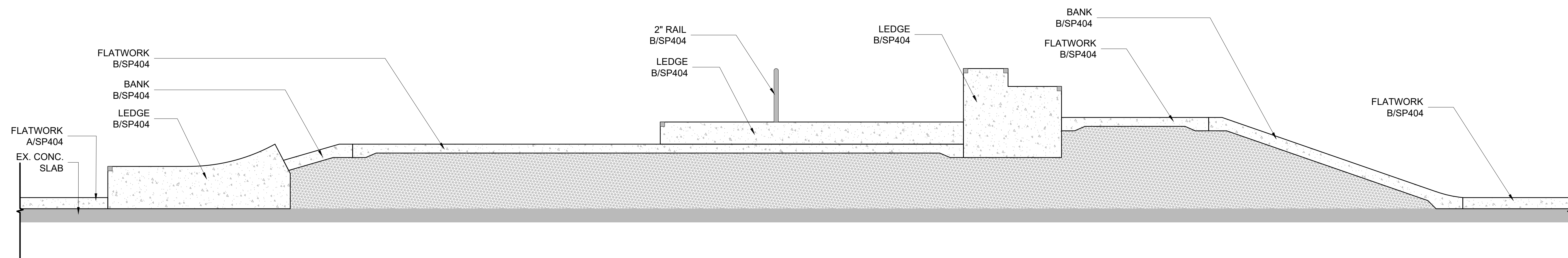
A SECTION 1
SCALE: 1/2"=1'-0"



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



C SECTION 3
SCALE: 1/2"=1'-0"

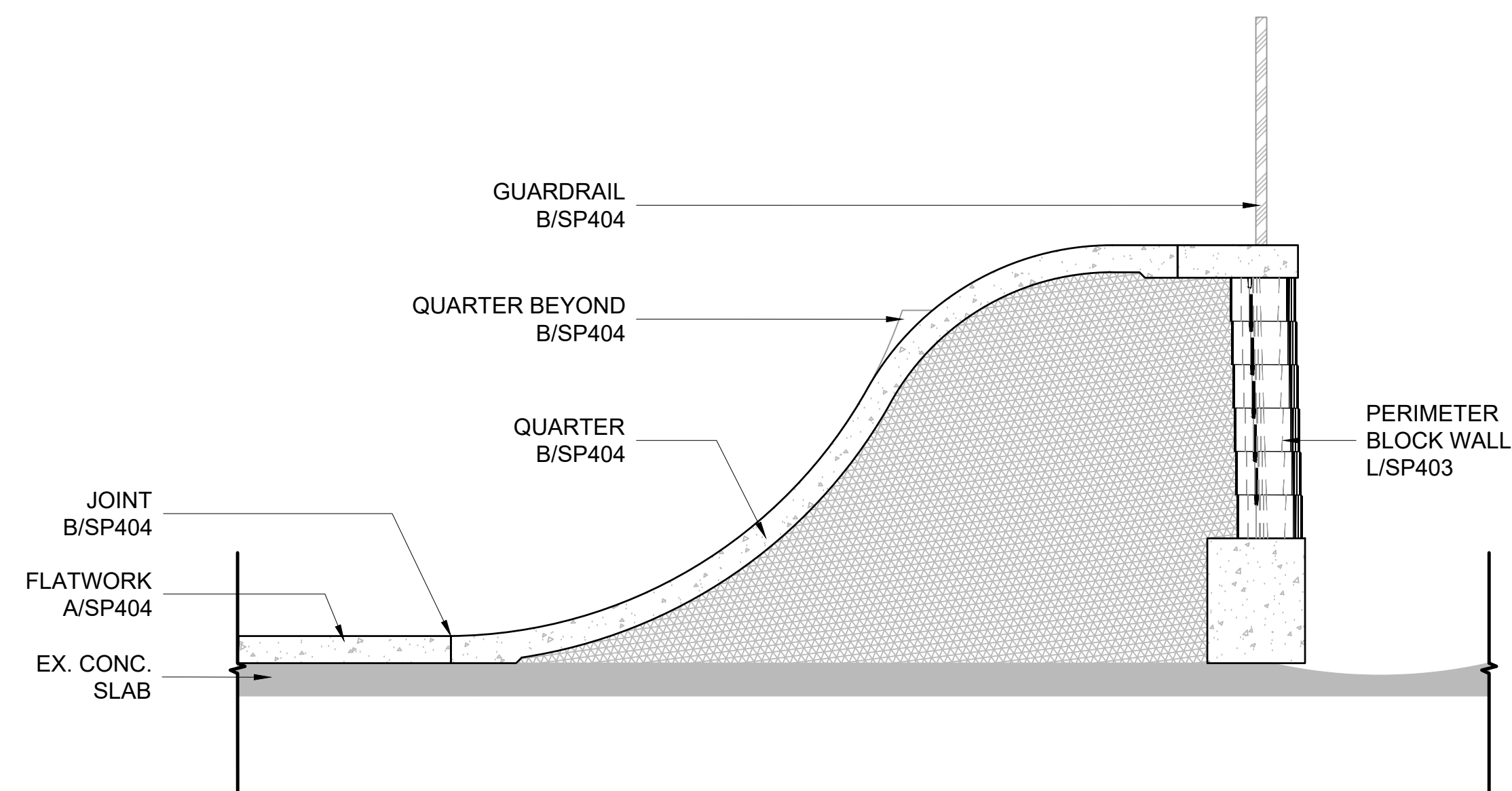


D SECTION 10
SCALE: 1/2"=1'-0"

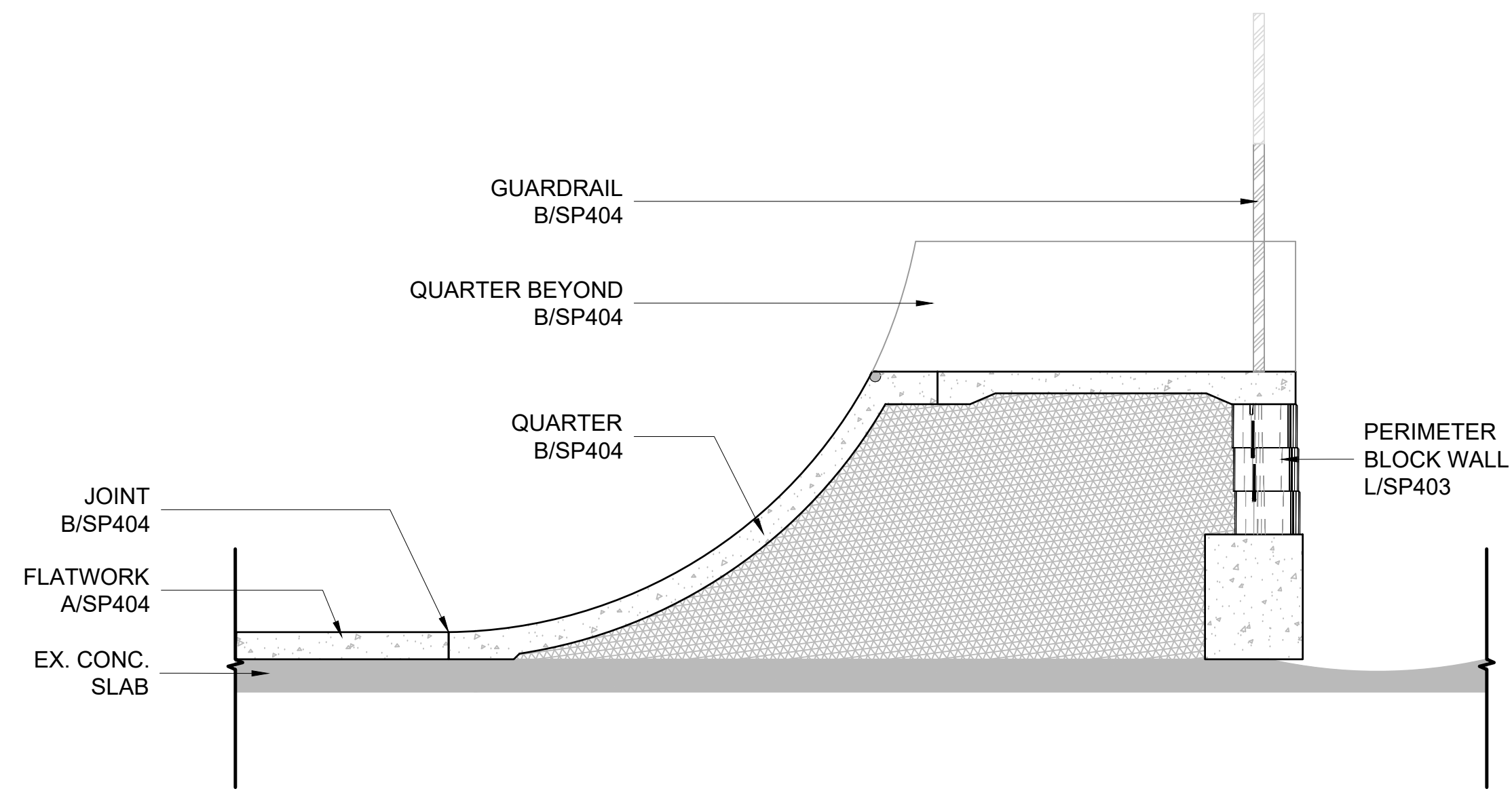


**CHAPEL HILL
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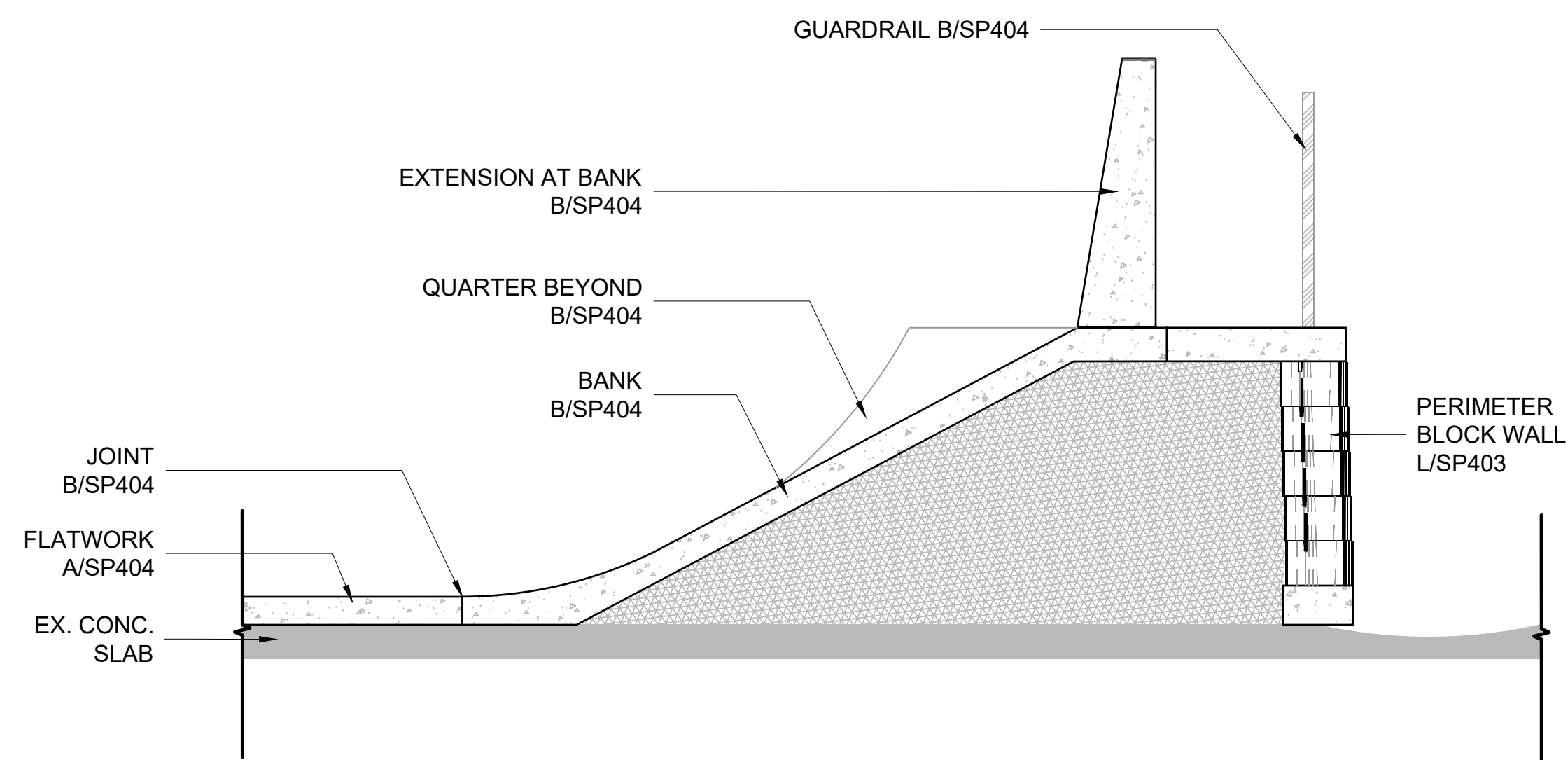
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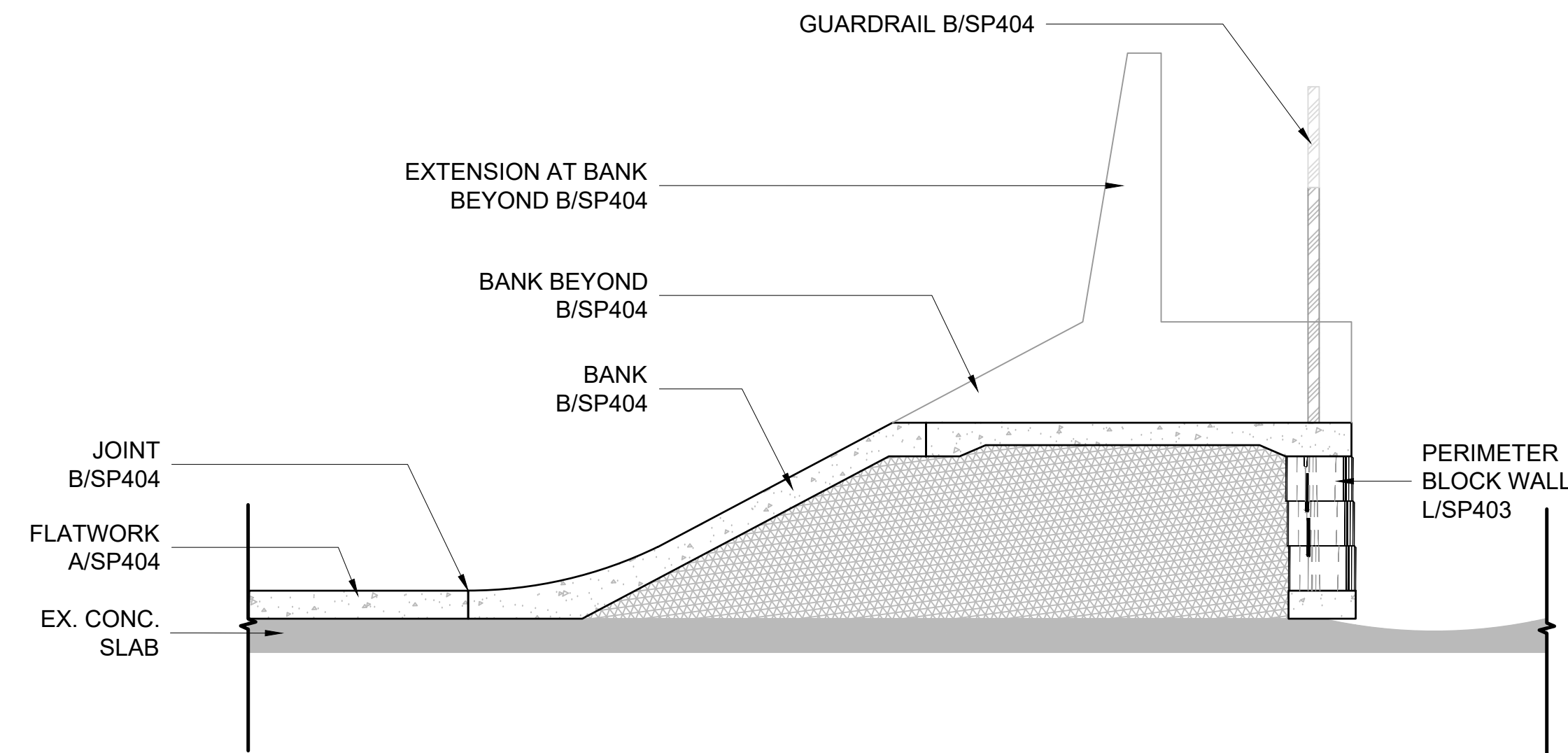
E SECTION 4
SCALE: 1/2"=1'-0"



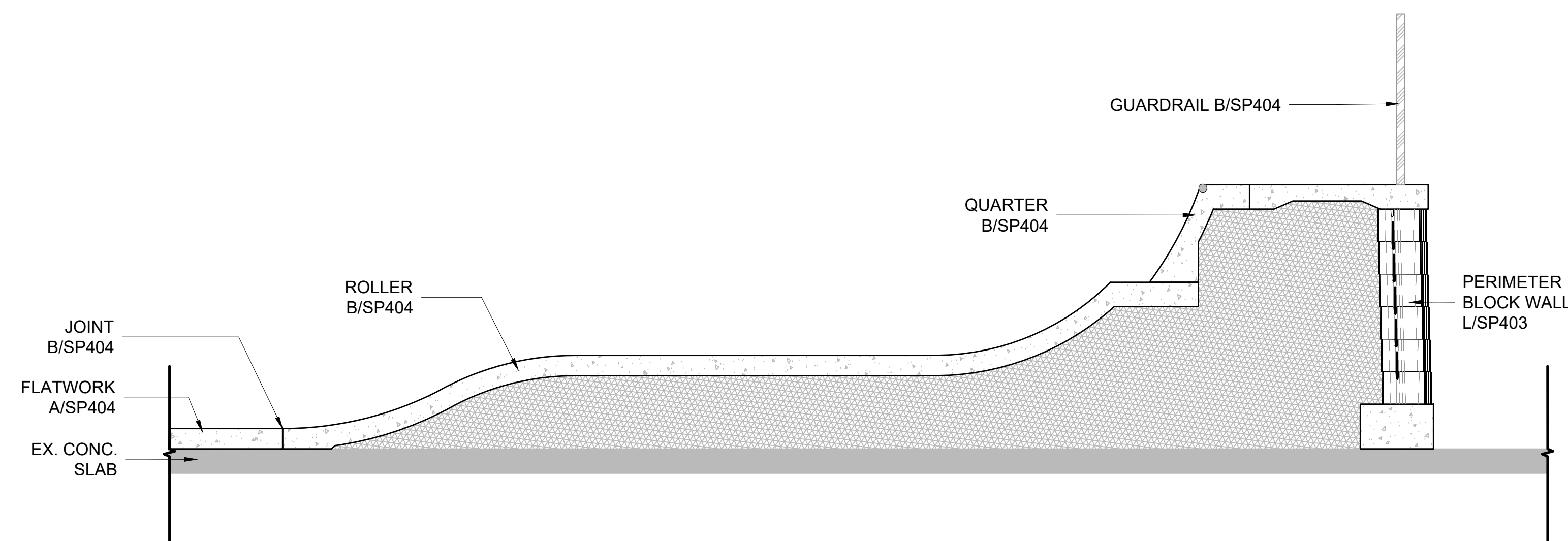
F SECTION 5
SCALE: 1/2"=1'-0"



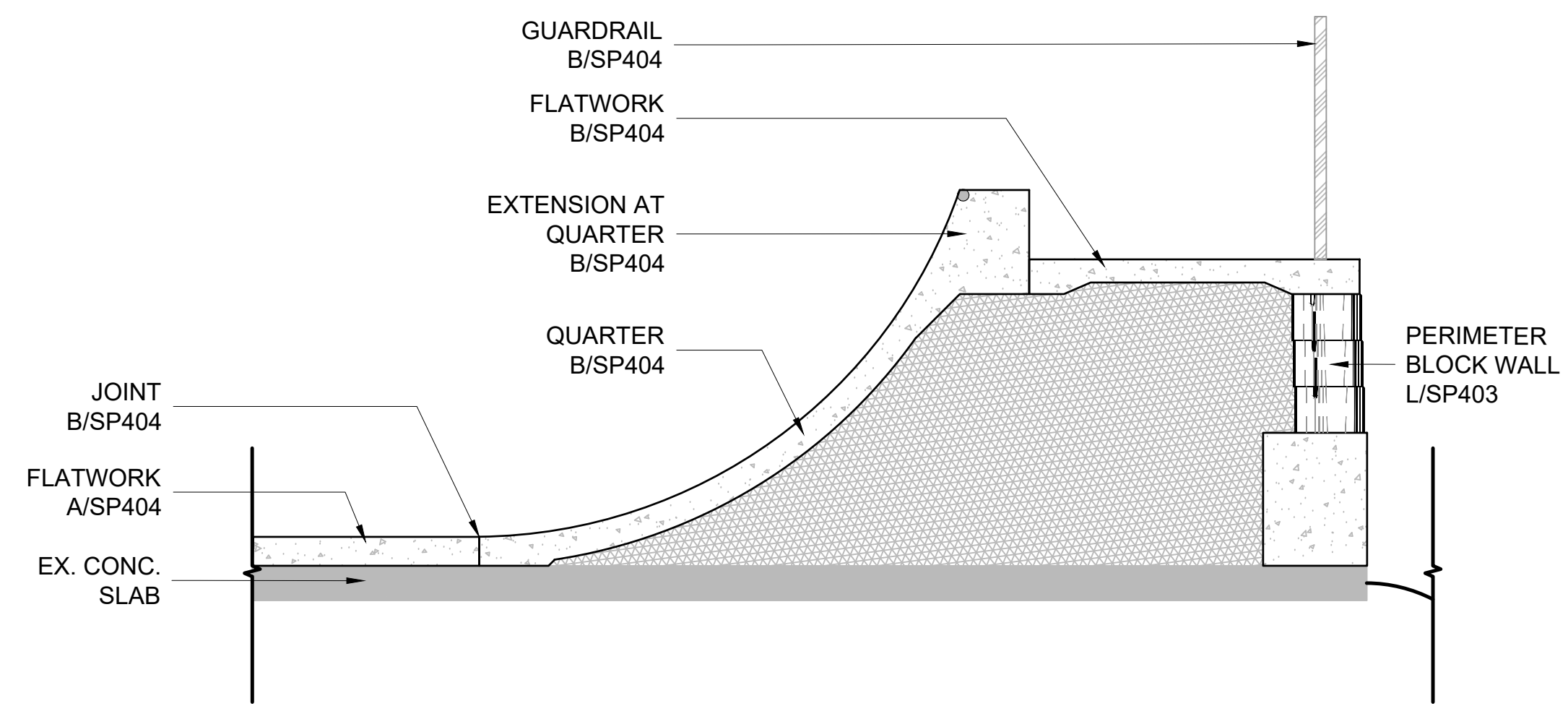
G SECTION 6
SCALE: 1/2"=1'-0"



H SECTION 7
SCALE: 1/2"=1'-0"



I SECTION 8
SCALE: 1/2"=1'-0"



J SECTION 9
SCALE: 1/2"=1'-0"

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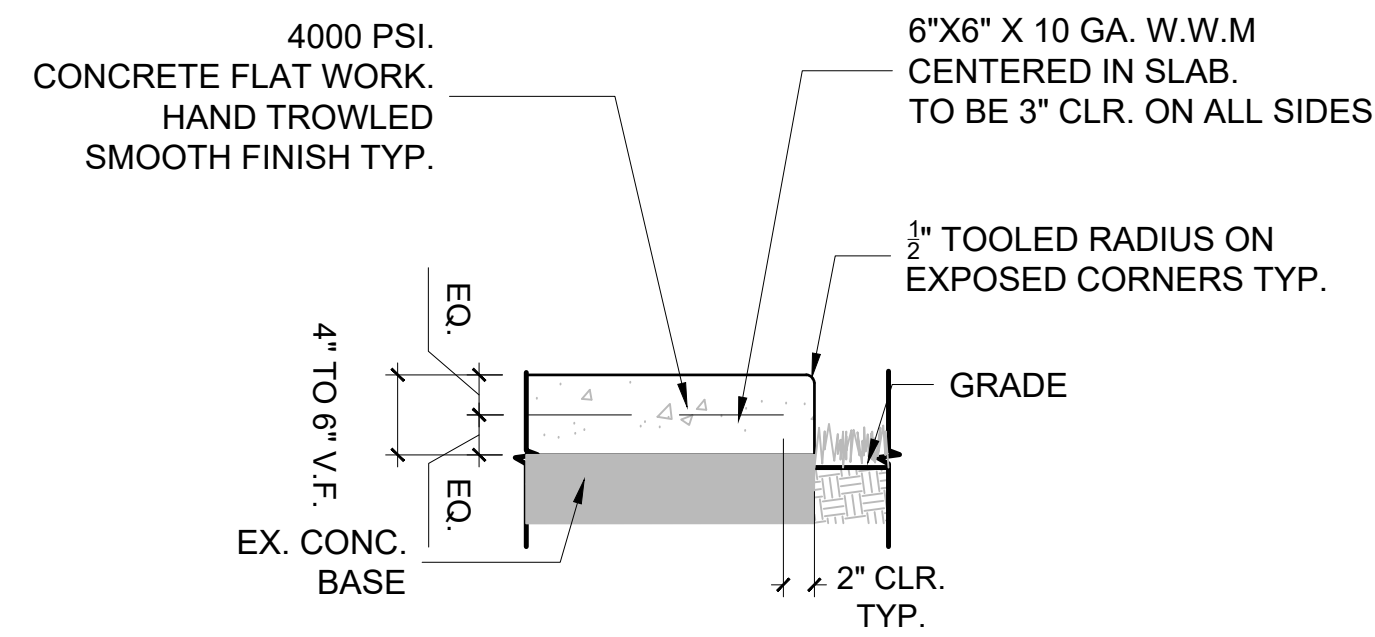
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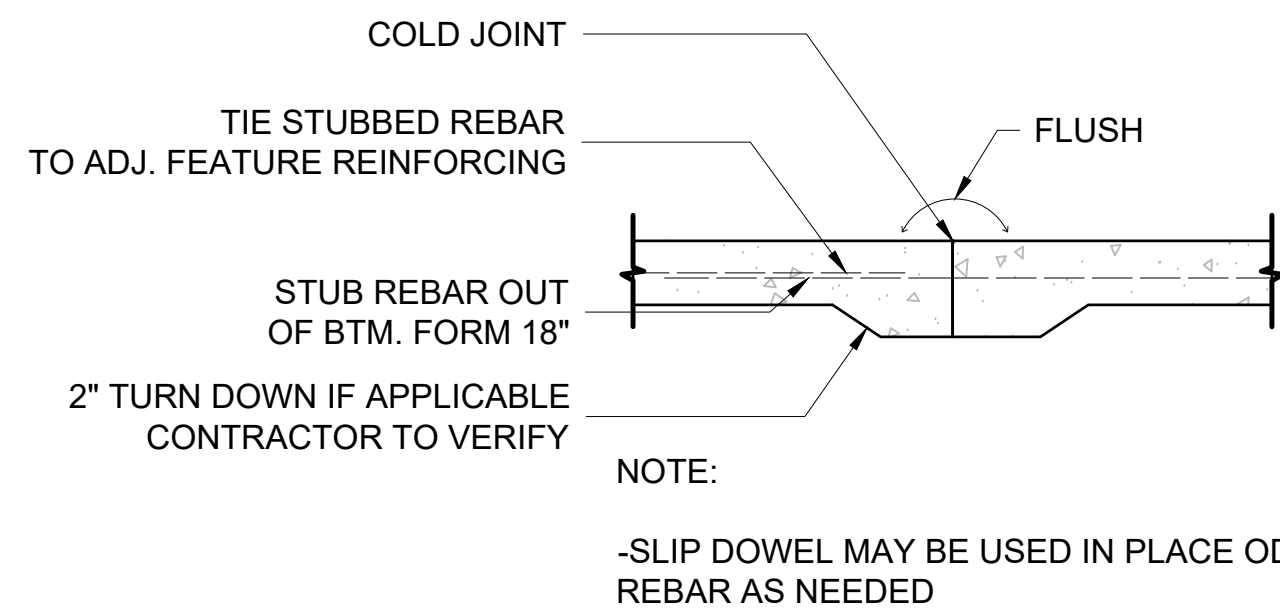


SECTIONS 2

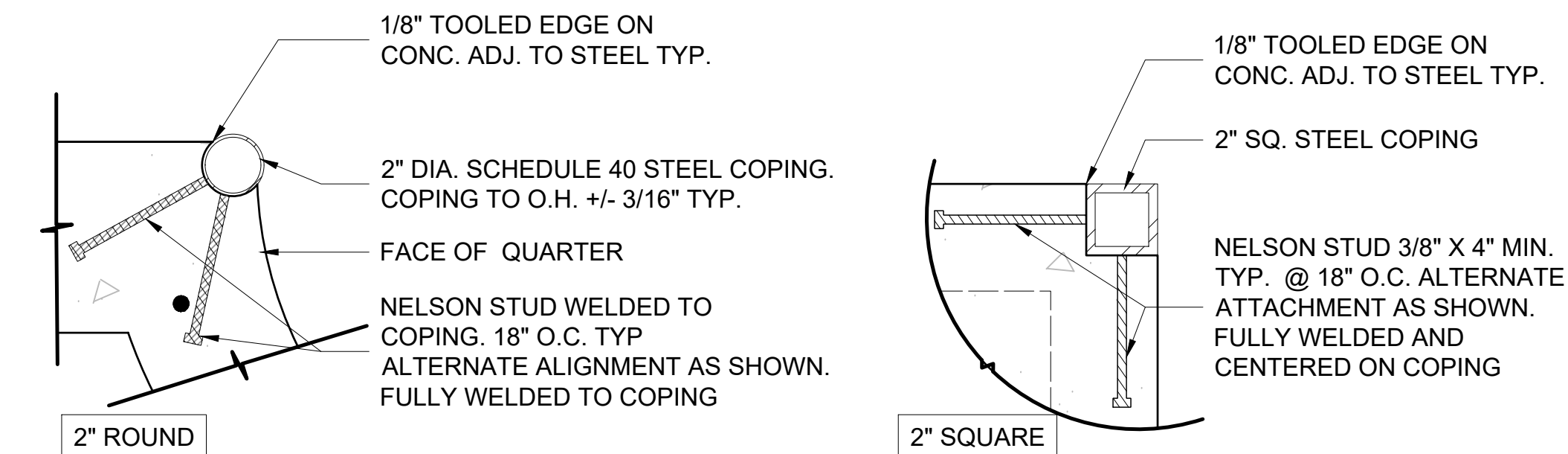
SP 401



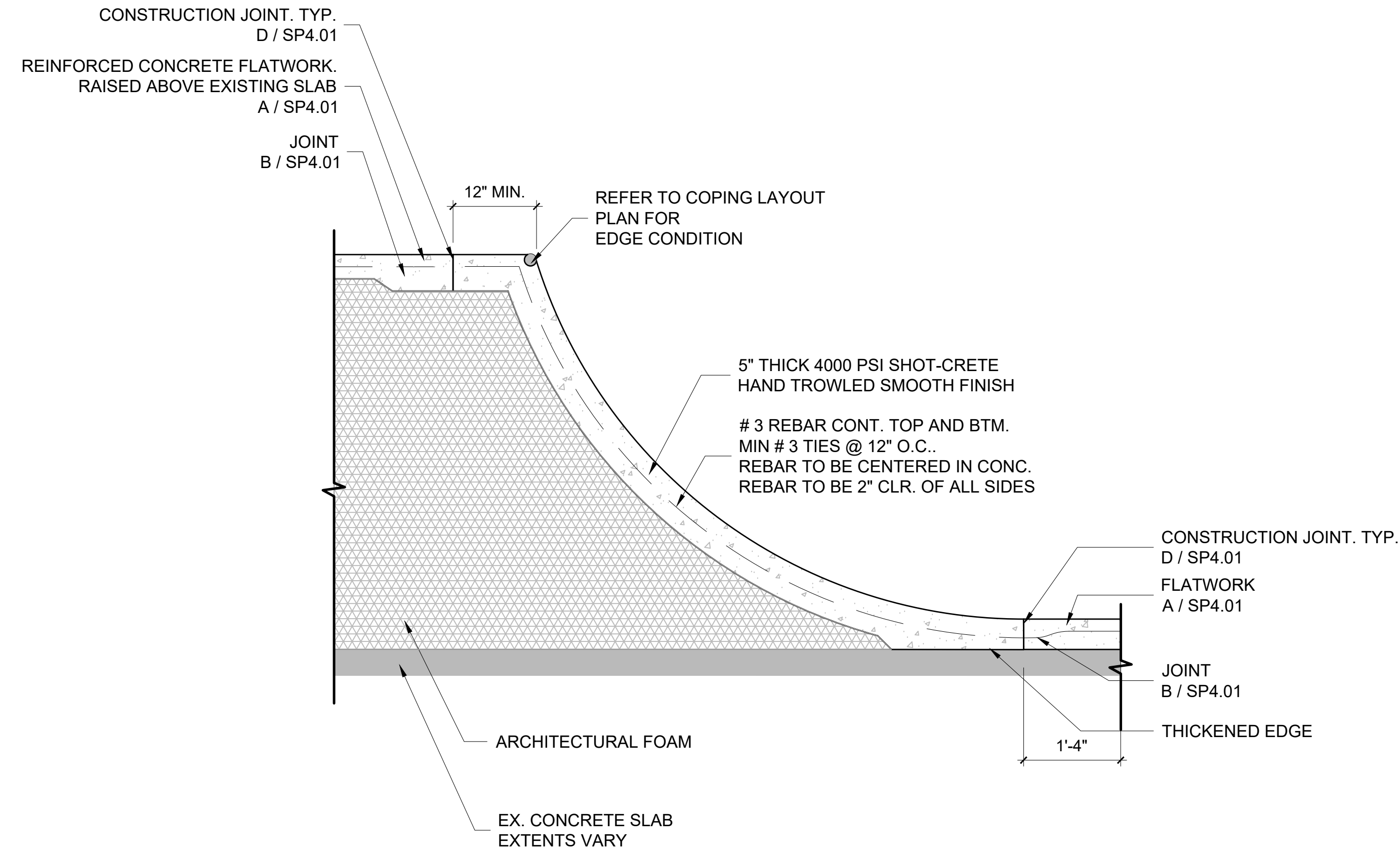
A TYPICAL FLATWORK
SCALE: 1"=1'-0"



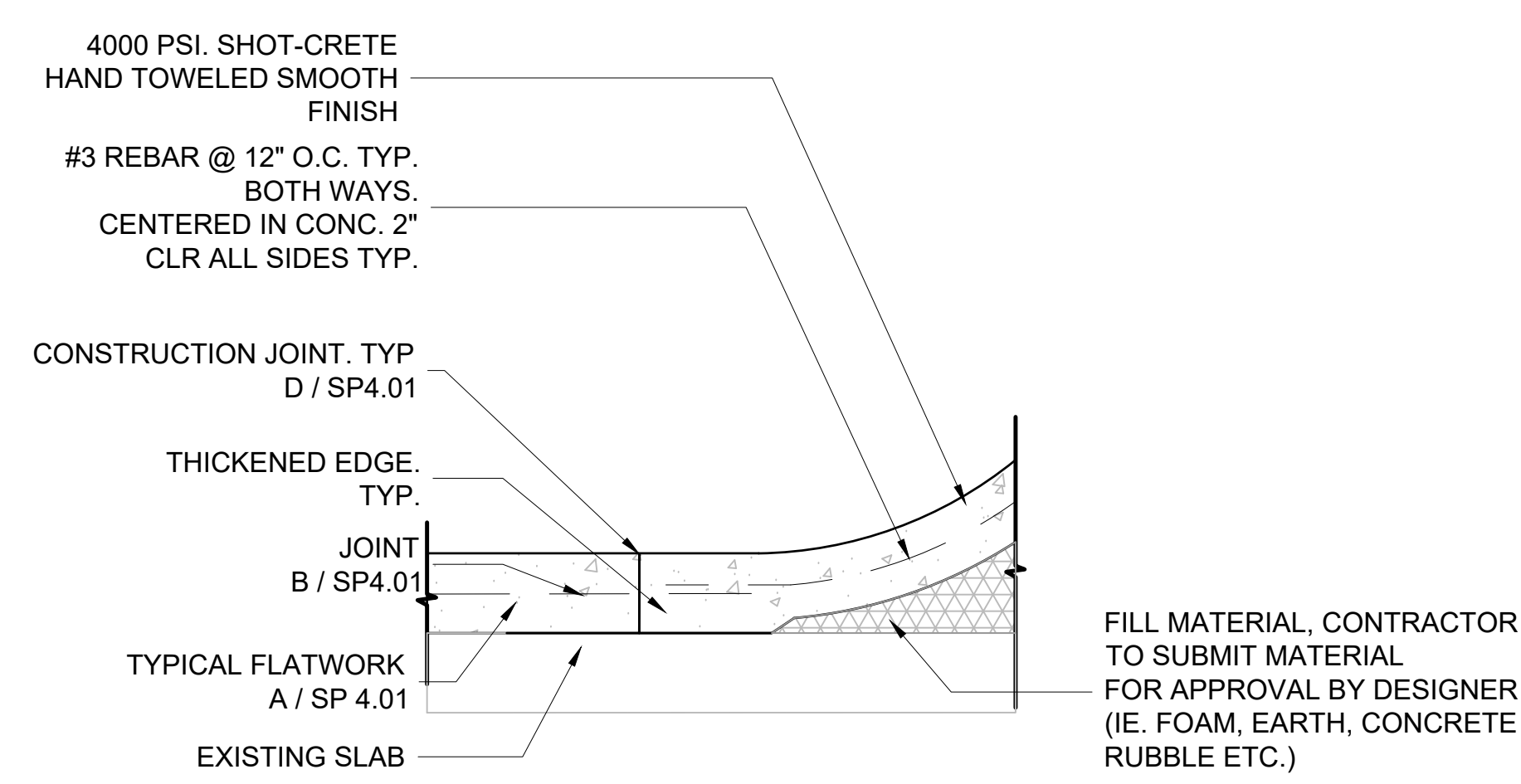
B TYPICAL JOINT
SCALE: 1"=1'-0"



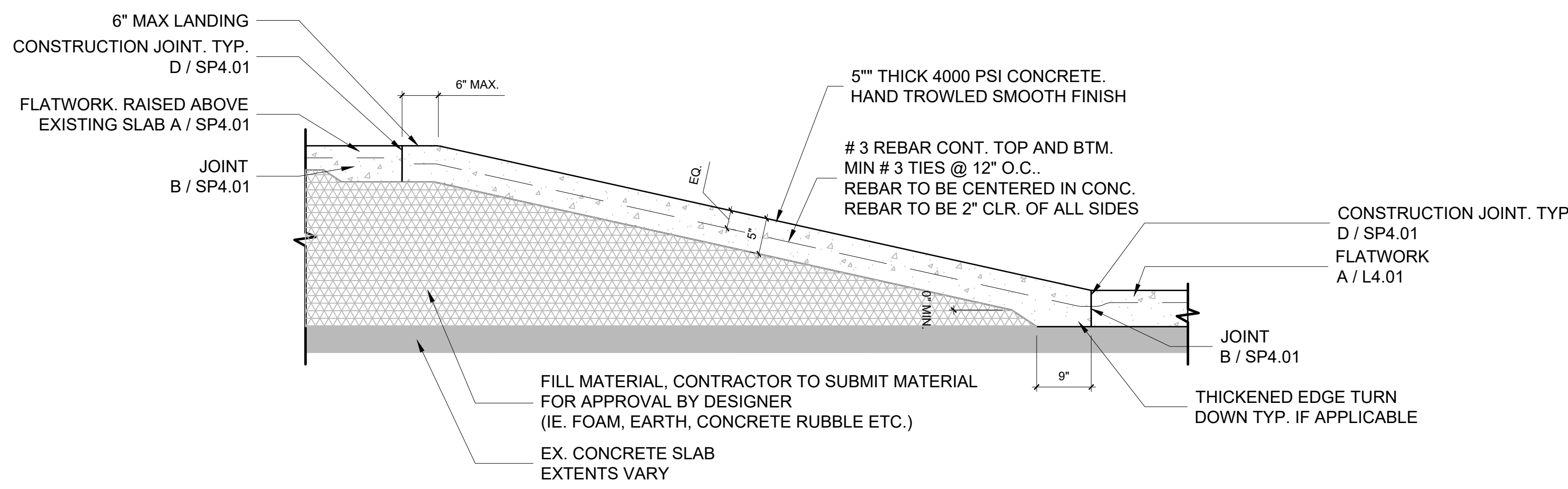
C TYPICAL COPING
SCALE: 3"=1'-0"



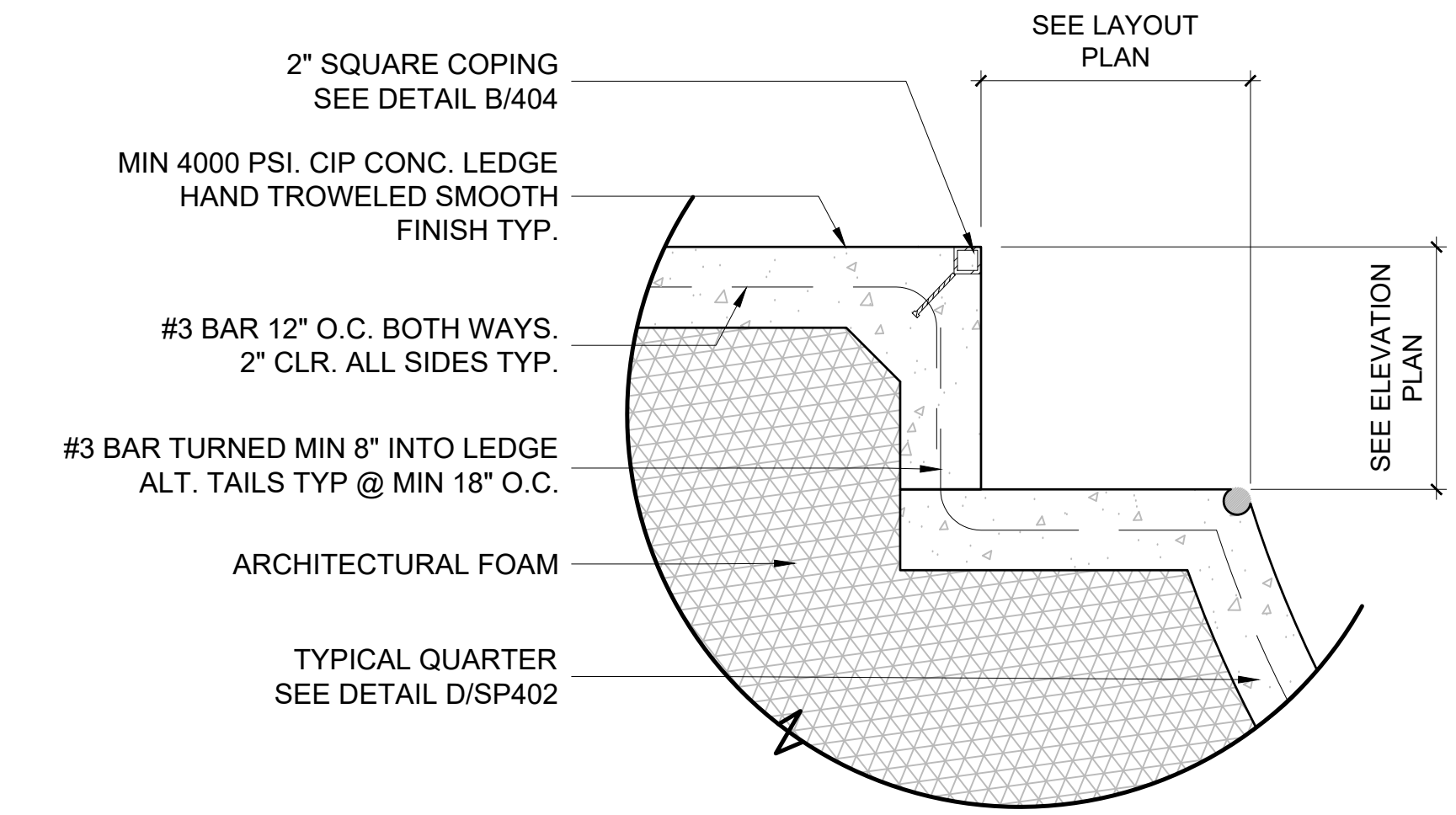
D TYPICAL TRANSITION DETAIL
SCALE: 3/4"=1'-0"



E ROLLER DETAIL
SCALE: 1"=1'-0"



F TYPICAL BANK DETAIL
SCALE: 3/4"=1'-0"



G SUB BOX
SCALE: 1"=1'-0"

CHAPEL HILL SKATE PARK
NORTH CAROLINA

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DETAILS

SP 402



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SKATE PARK**
NORTH CAROLINA

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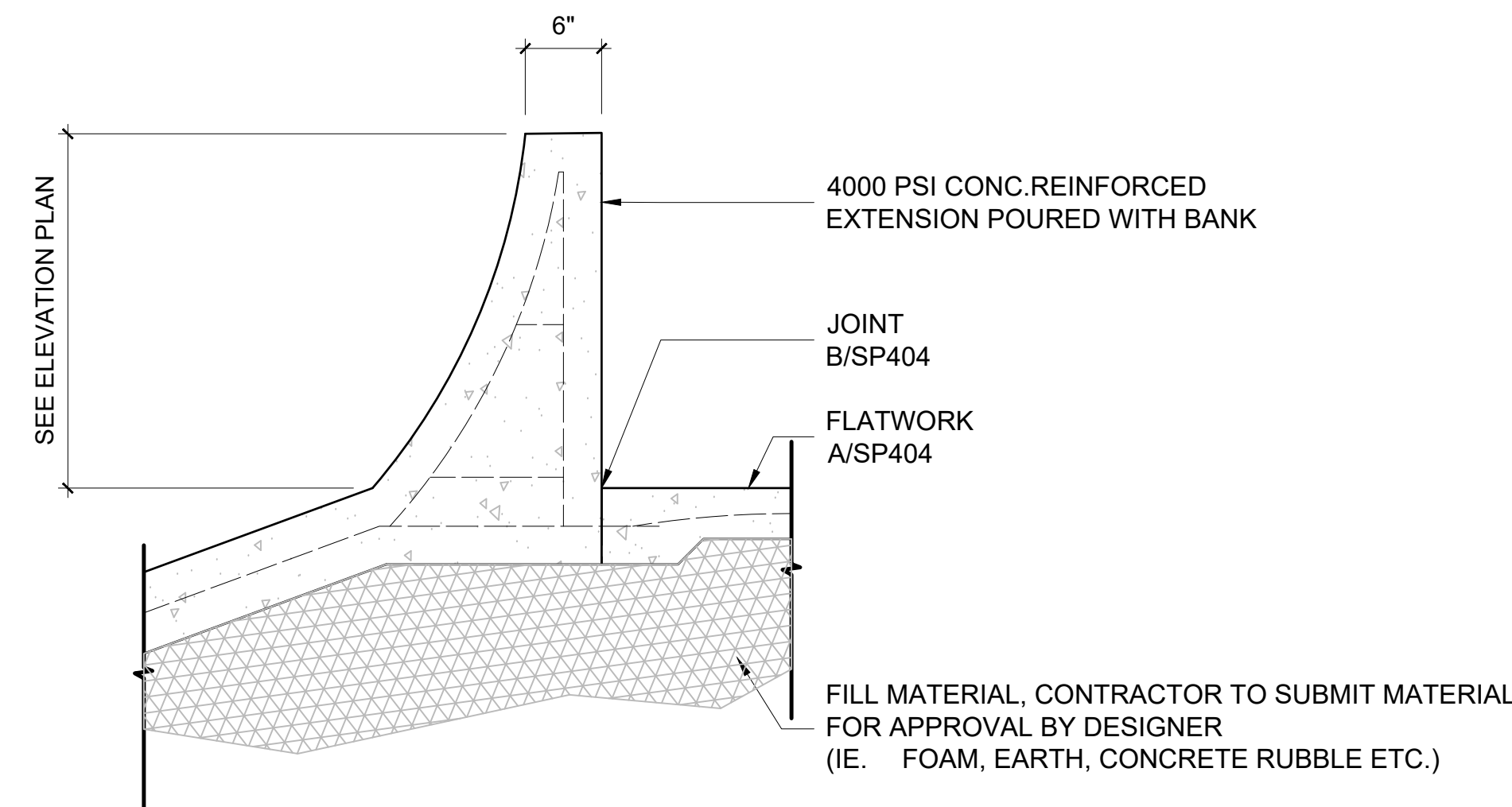
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SCALE NOTED

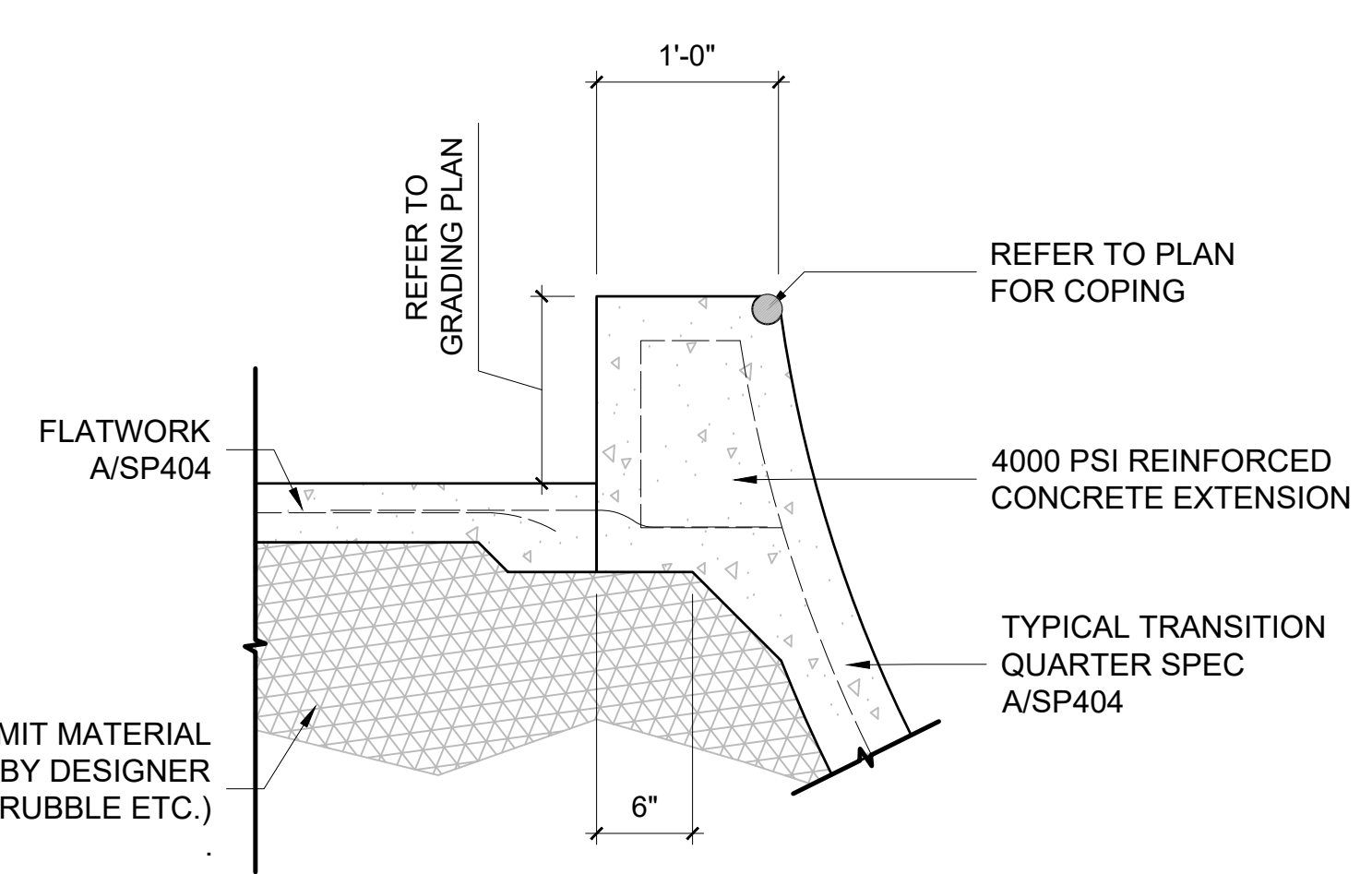


DETAILS 2

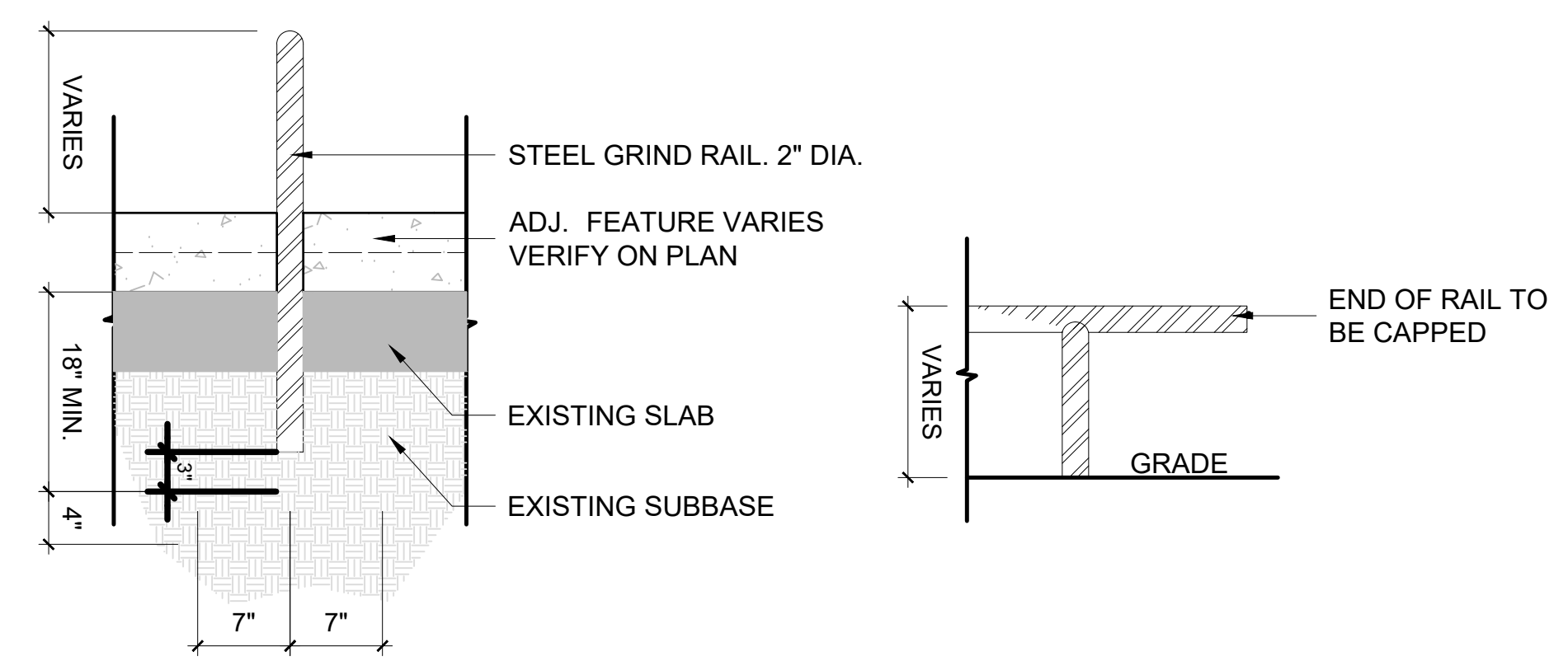
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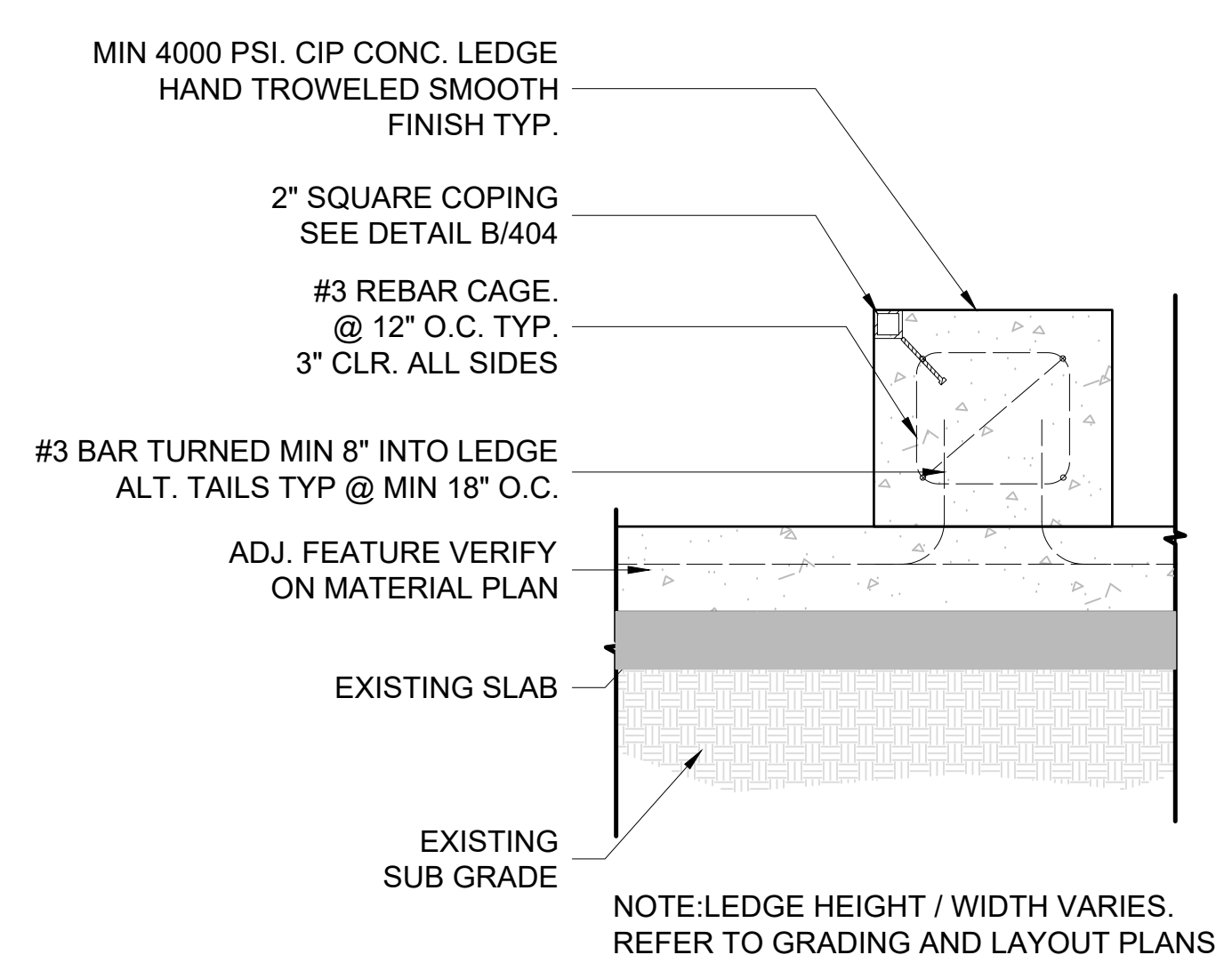
H EXTENSION AT BANK
SCALE: 1"=1'-0"



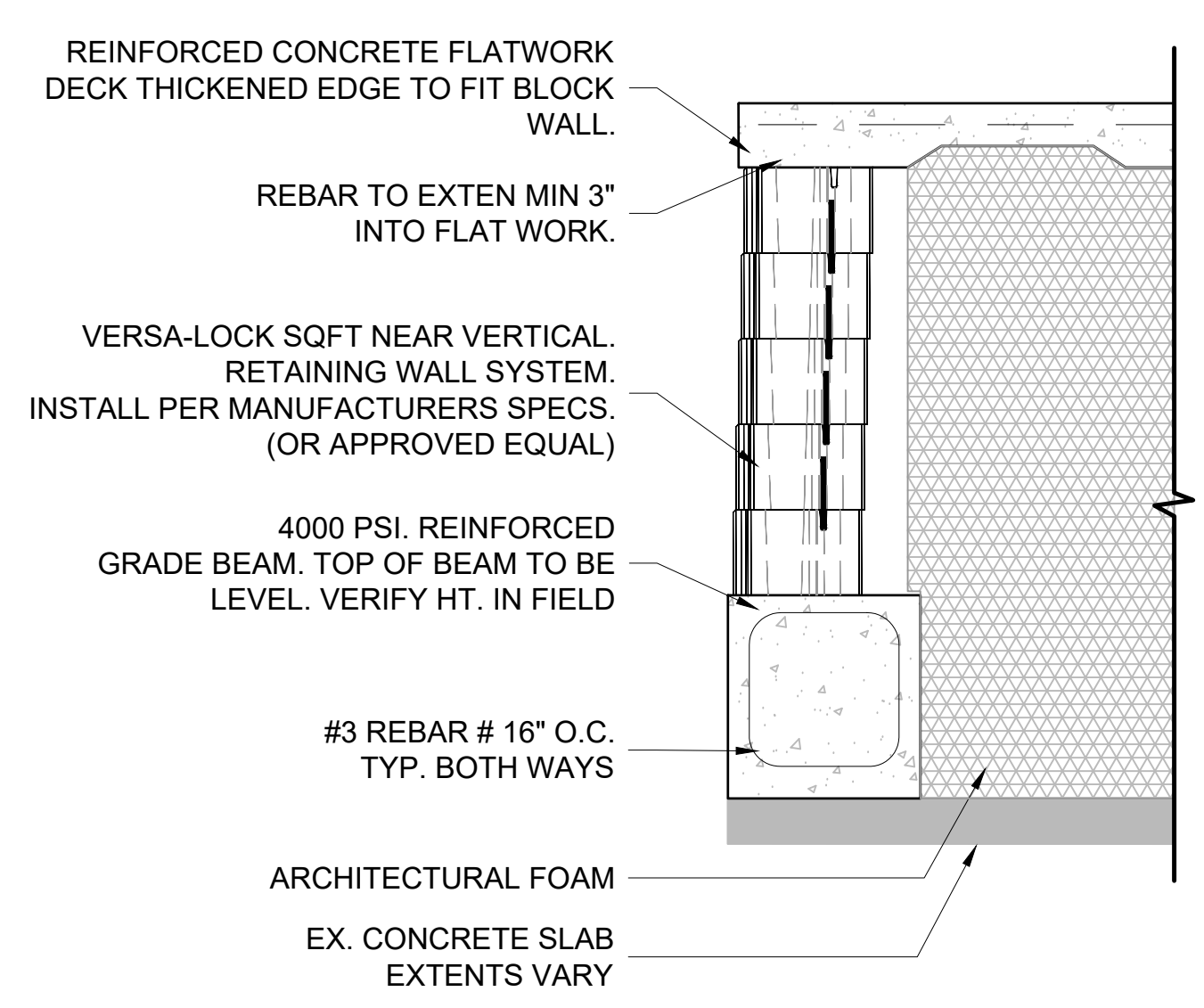
I EXTENSION AT QUARTER
SCALE: 1"=1'-0"



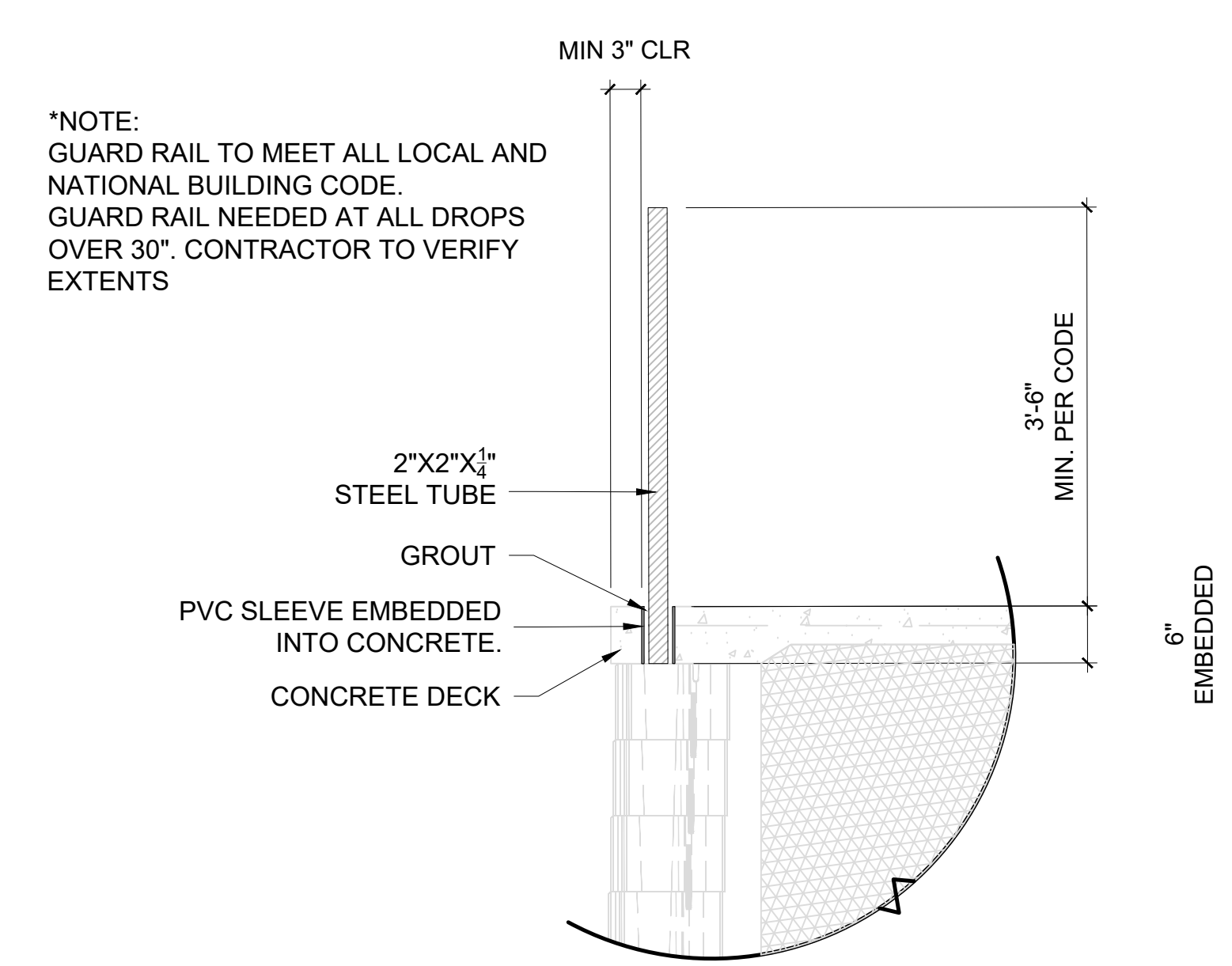
J 2" RAIL
SCALE: 1"=1'-0"



K LEDGE
SCALE: 1"=1'-0"



L PERIMETER BLOCK WALL
SCALE: 3/4"=1'-0"



M GUARDRAIL
SCALE: 3/4"=1'-0"

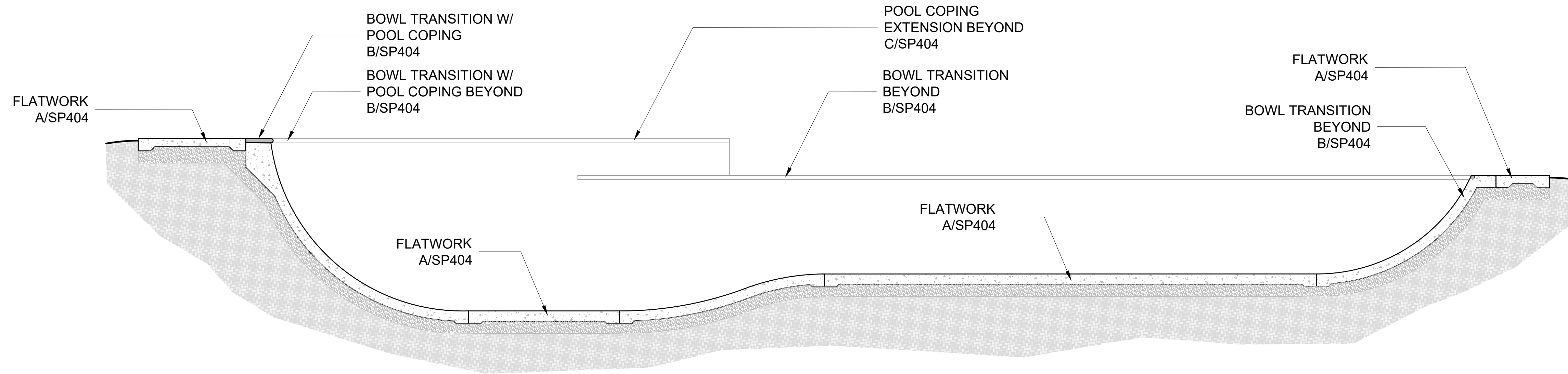


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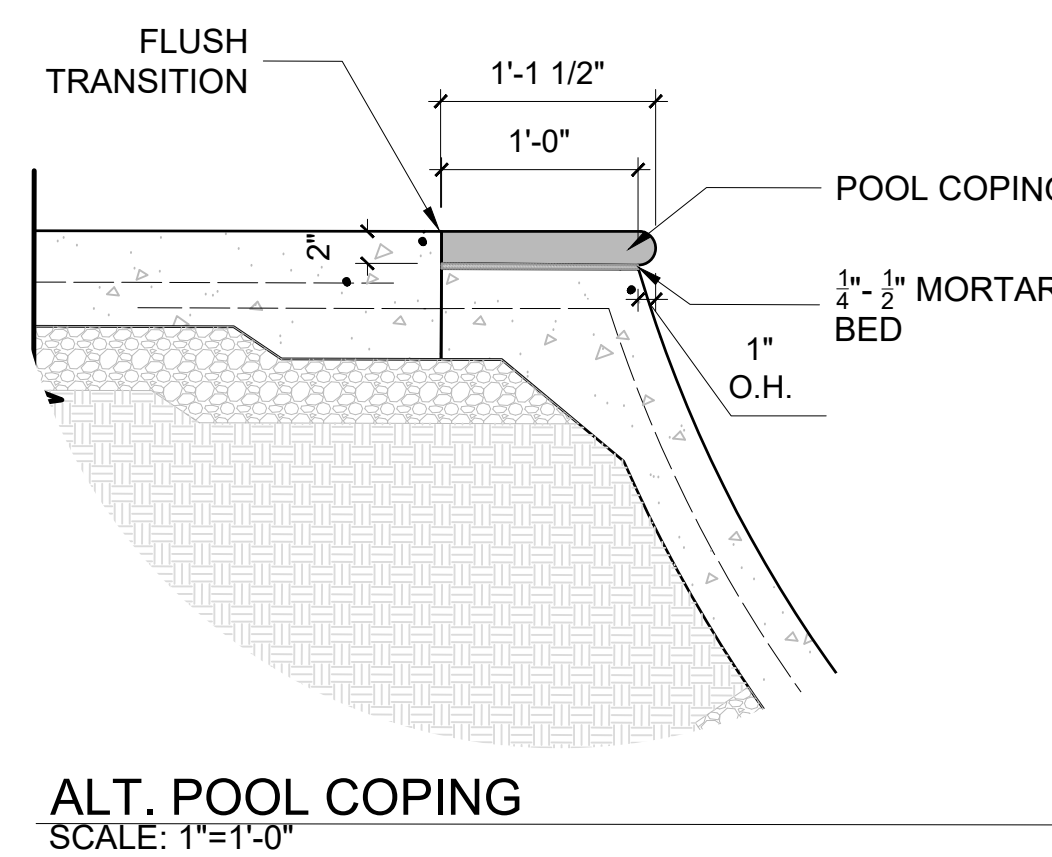
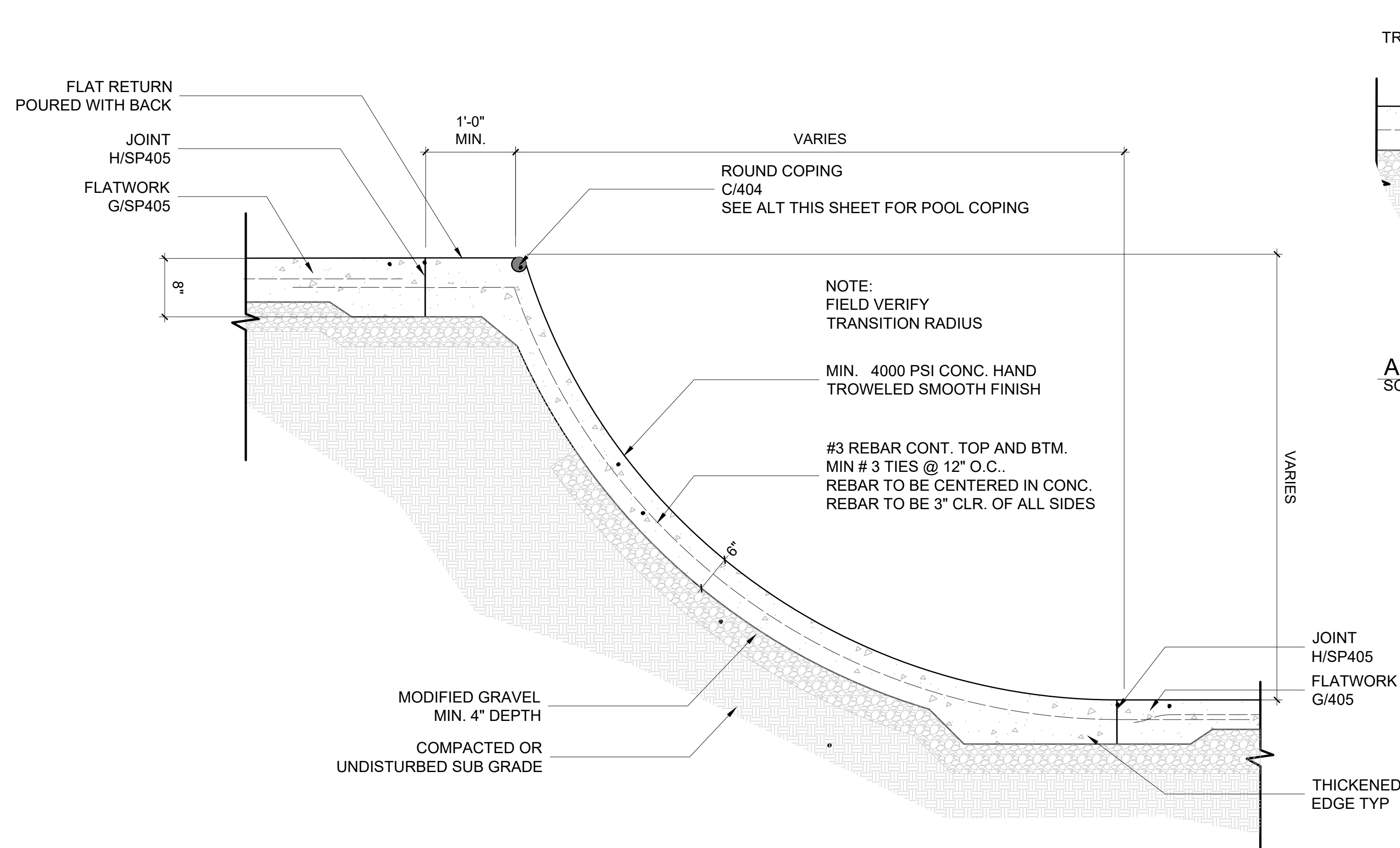
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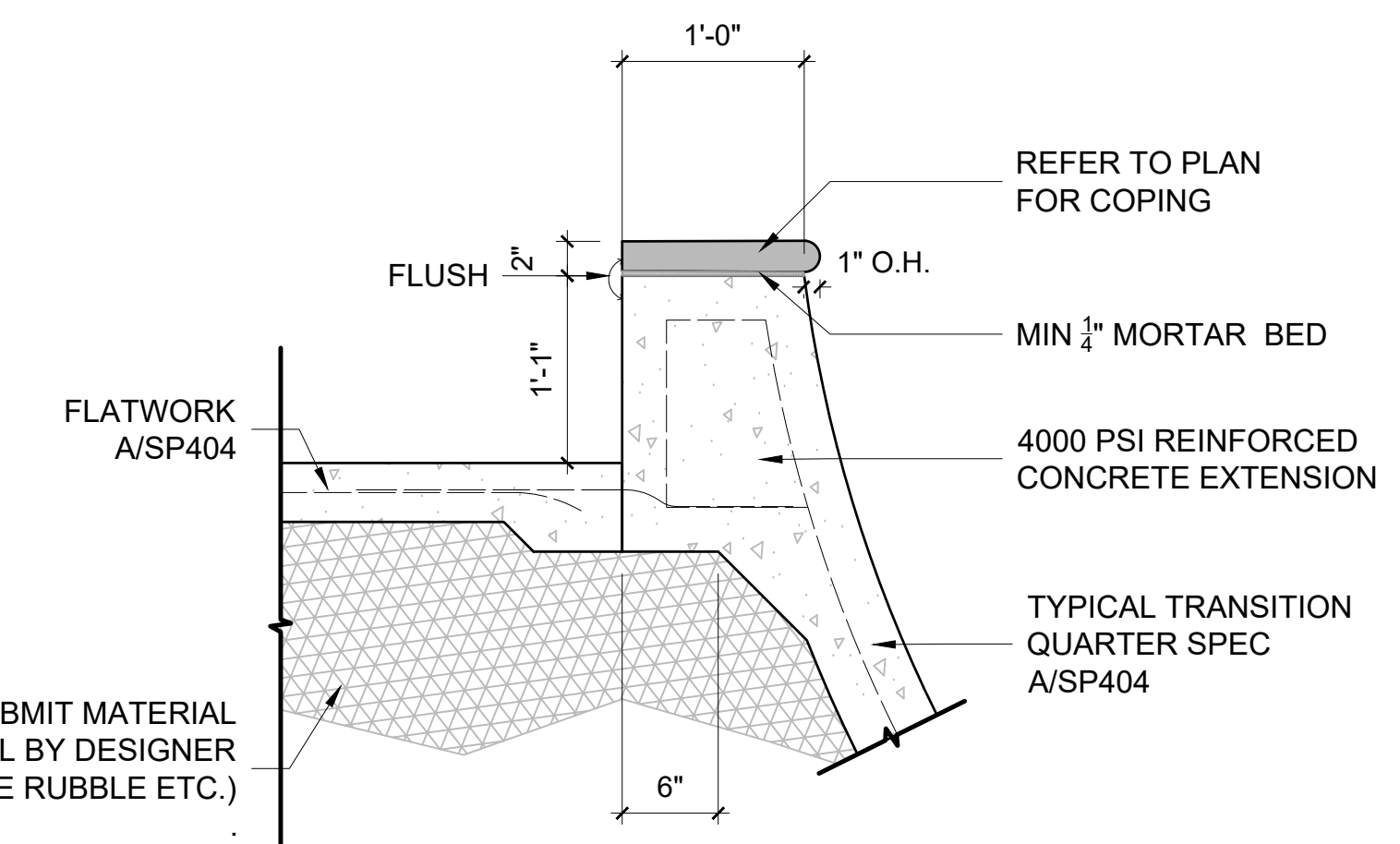
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A BOWL SECTION
SCALE: 3/8"=1'-0"



FILL MATERIAL, CONTRACTOR TO SUBMIT MATERIAL FOR APPROVAL BY DESIGNER (IE. FOAM, EARTH, CONCRETE RUBBLE ETC.)



B TYPICAL BOWL TRANSITION
SCALE: 1"=1'-0"

C POOL COPING EXTENSION
SCALE: 1"=1'-0"

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SCALE NOTED



**ADD ALT. BOWL
DETAILS**

SP 404