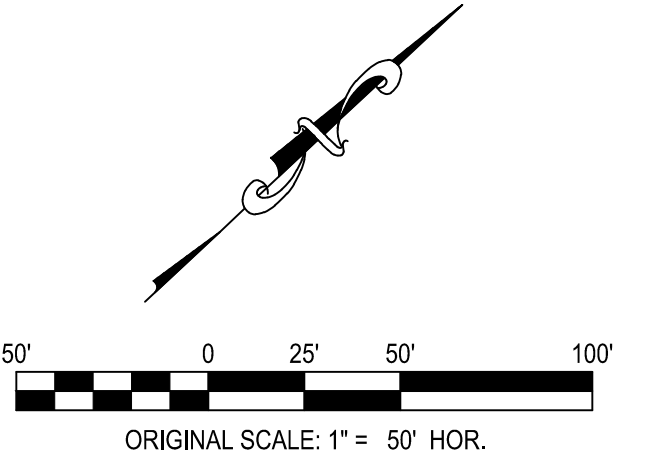
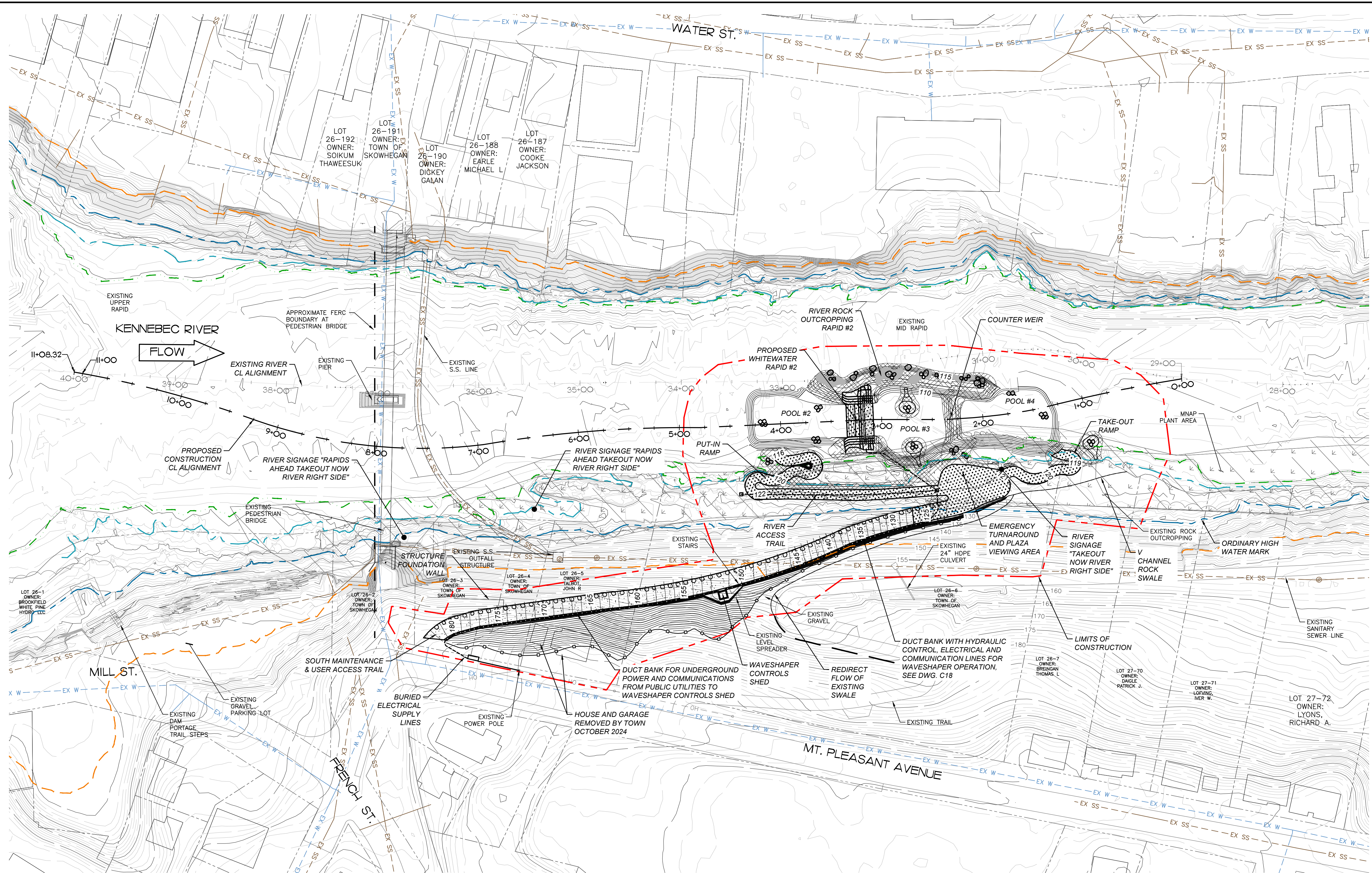






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LEGEND	
	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED ASPHALT (PLAN)
	PROPOSED CONCRETE (PLAN)
	MULTI-LAYER GROUTED BOULDERS (PLAN)
	SCULPTED CONCRETE (PLAN)
	GROUTED CORE ROCK
	CONCRETE FACE
	SCULPTED CONCRETE (SECTION)
	CONCRETE (SECTION)
	EXISTING BEDROCK (SECTION)
	FEATURE BOULDER
	ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
	DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
	DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
	EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS
	LIMITS OF CONSTRUCTION

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR

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PROJ # 120956

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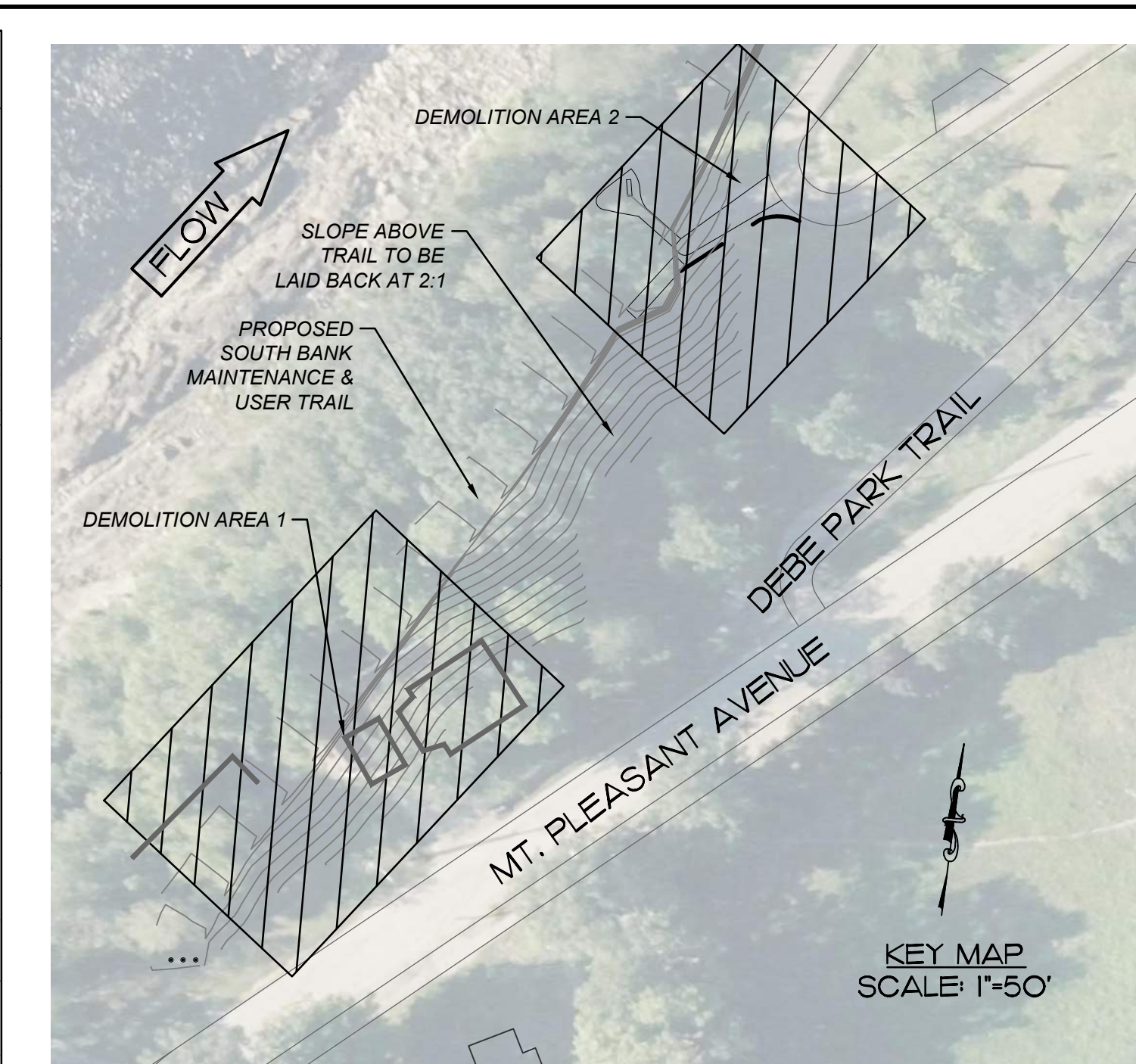
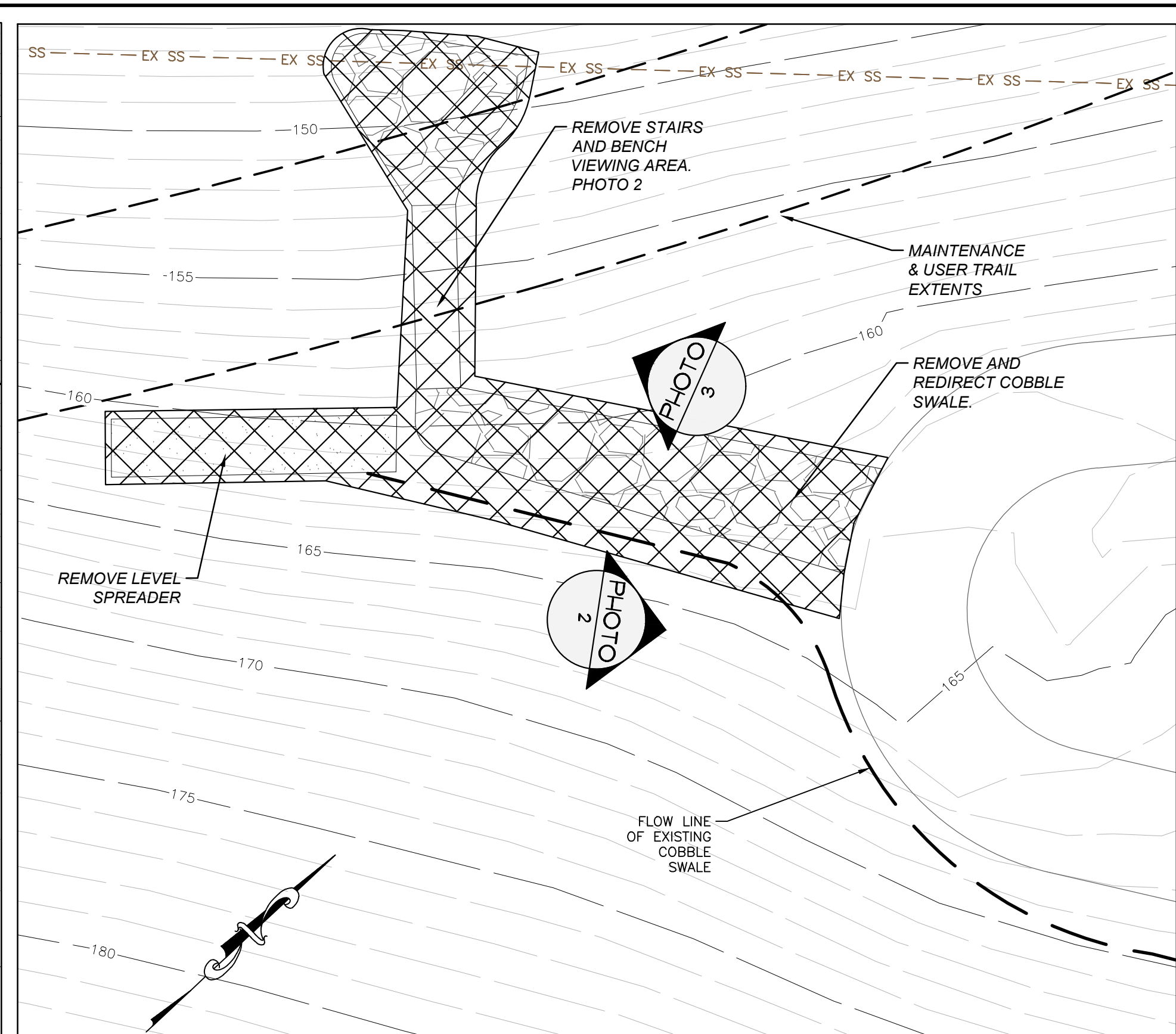
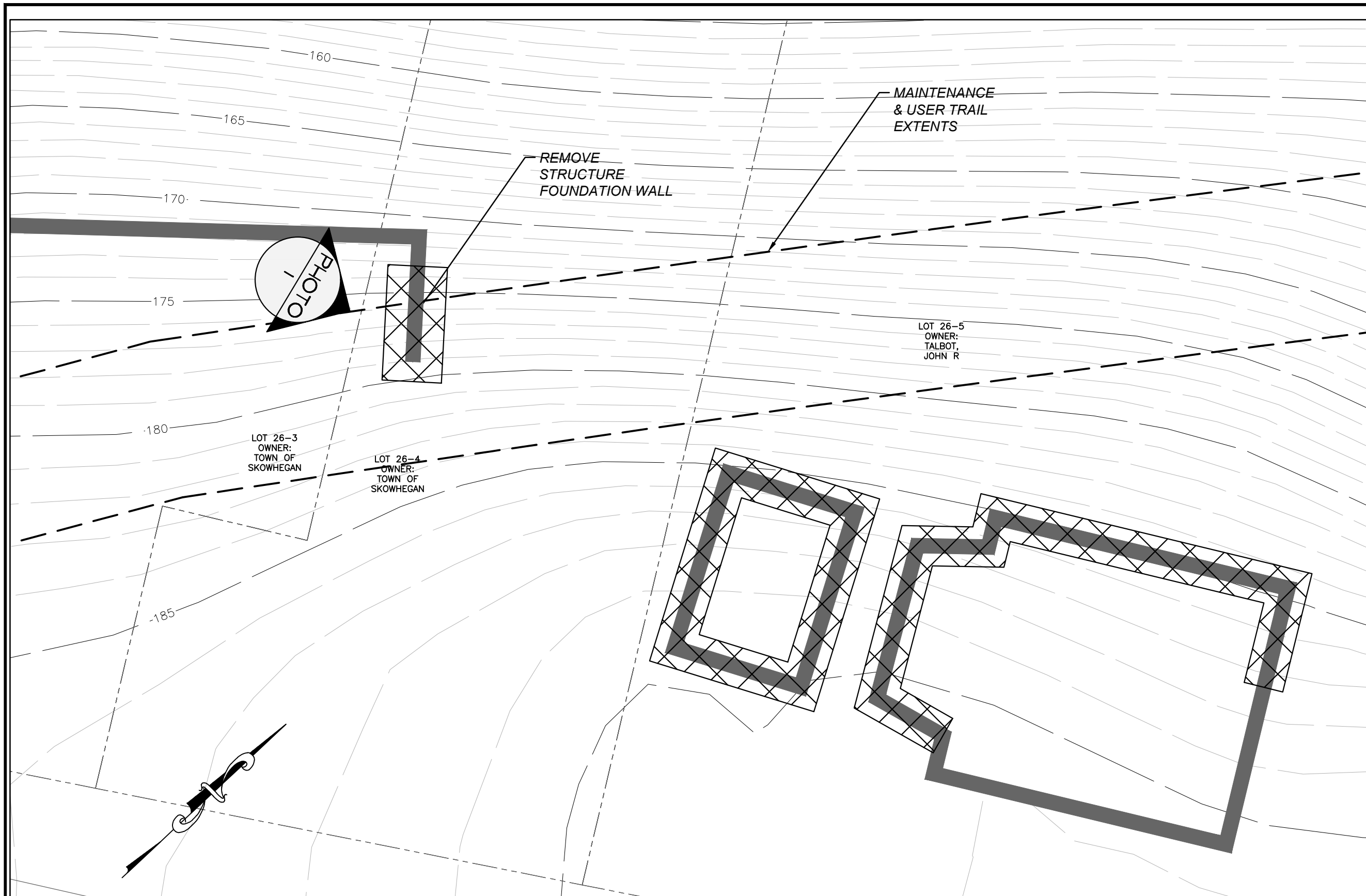
TITLE

**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE

**OVERALL PROJECT SITE**

JOB NUMBER	65420956
DATE	NOVEMBER 2024
DRAWING NO.	<b>C3</b>
SHEET NO.	3 of 33

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10' 0 5' 10' 20'  
 ORIGINAL SCALE: 1" = 10' HOR.  
**DEMOLITION AREA 1**  
**PLAN**  
 SCALE: 1" = 10'

10' 0 5' 10' 20'  
 ORIGINAL SCALE: 1" = 10' HOR.  
**DEMOLITION AREA 2**  
**PLAN**  
 SCALE: 1" = 10'



**DEMOLITION AREA 1**  
**PHOTO 1 -**  
**EXISTING FOUNDATION WALL**



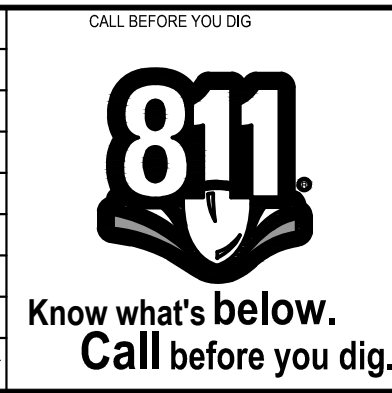
**DEMOLITION AREA 2**  
**PHOTO 2 -**  
**EXISTING GRAVEL TURNOUT AND COBBLE SWALE**



**DEMOLITION AREA 2**  
**PHOTO 3 -**  
**EXISTING STAIRS AND BENCH VIEWING AREA**

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 OWNER  
 PROJ # 120956

NOT FOR CONSTRUCTION

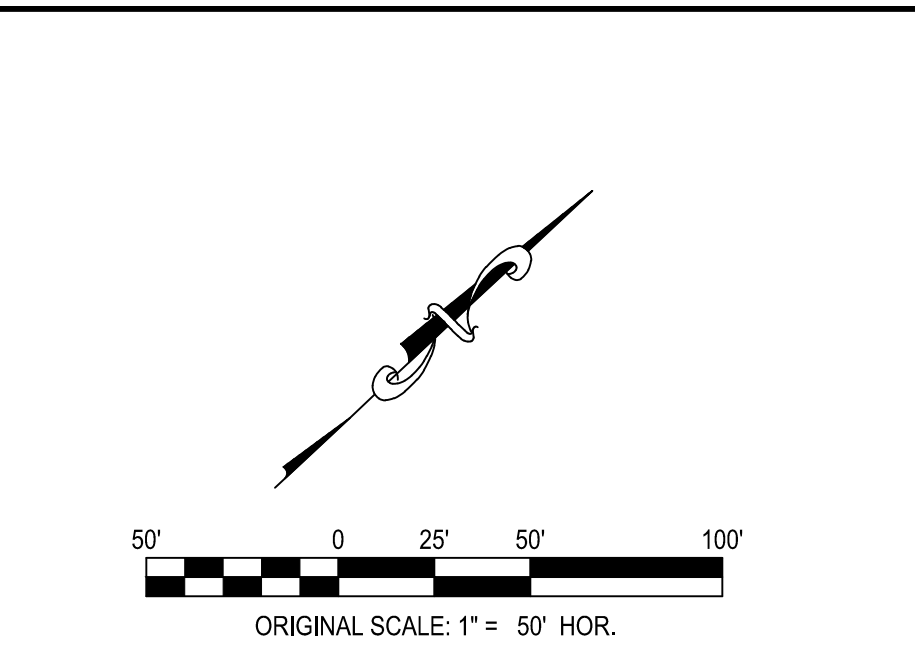
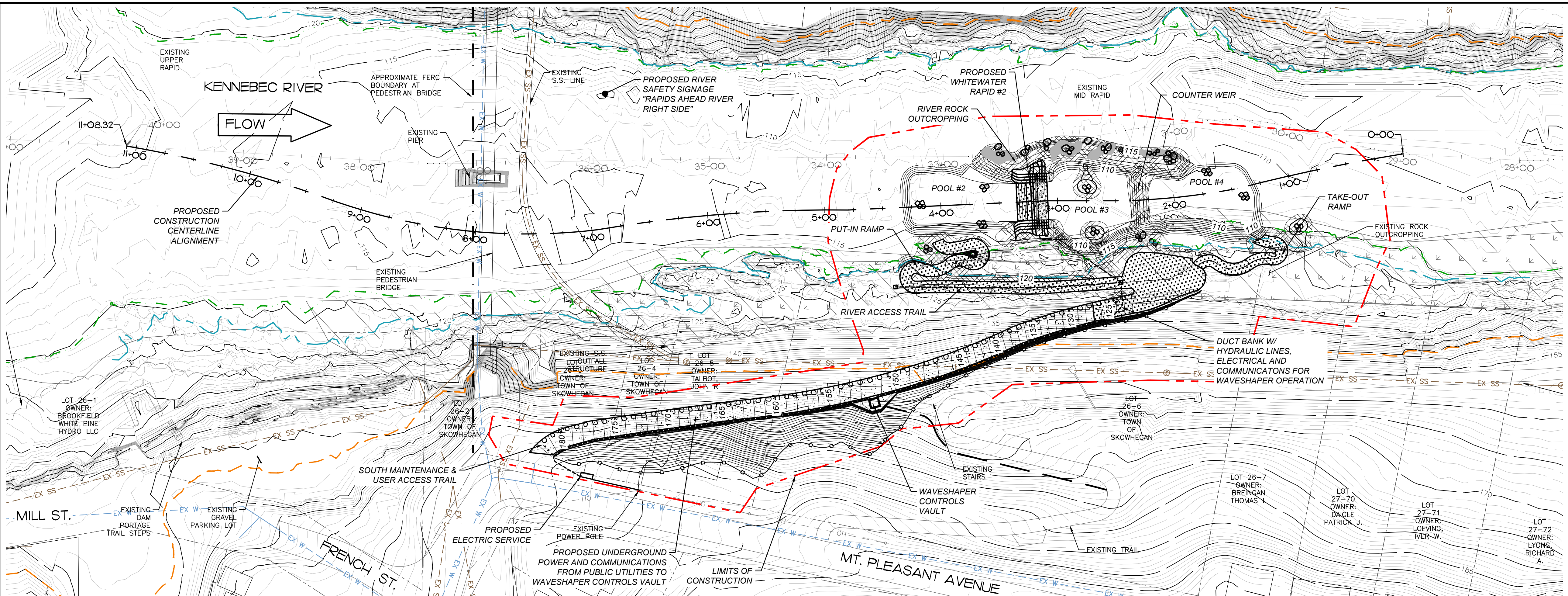


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TITLE:  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**DEMOLITION PLAN**  
**MAINTENANCE & USER ACCESS TRAIL**

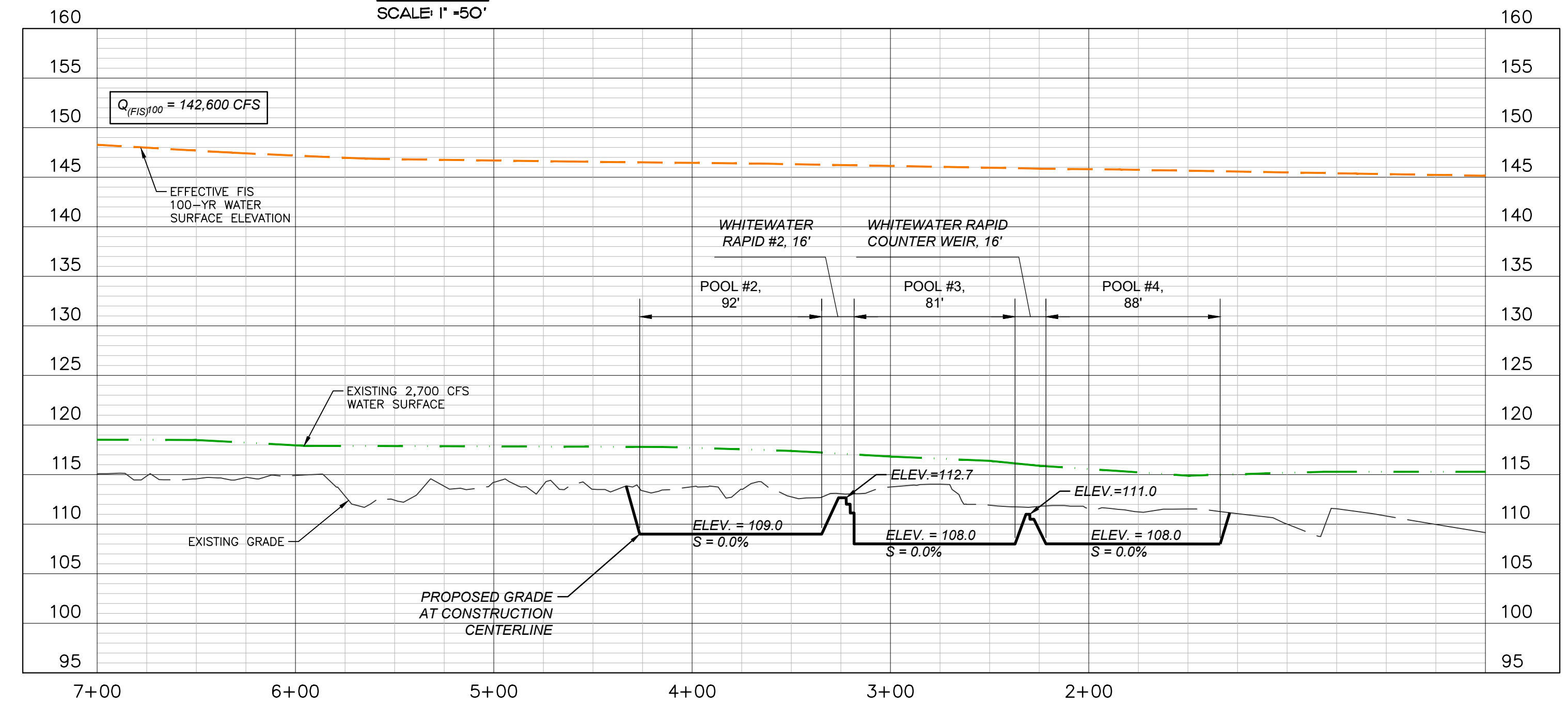
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 DATE: NOVEMBER 2024  
 DRAWING NO.: **C4**  
 SHEET NO.: 4 of 33

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- LEGEND**
- EXISTING CONTOUR MAJOR
  - EXISTING CONTOUR MINOR
  - PROPOSED CONTOUR MAJOR
  - PROPOSED CONTOUR MINOR
  - PROPOSED ASPHALT (PLAN)
  - PROPOSED CONCRETE (PLAN)
  - MULTI-LAYER GROUTED BOULDERS (PLAN)
  - SCULPTED CONCRETE (PLAN)
  - GROUTED CORE ROCK
  - CONCRETE FACE
  - SCULPTED CONCRETE (SECTION)
  - CONCRETE (SECTION)
  - EXISTING BEDROCK (SECTION)
  - FEATURE BOULDER
  - ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
  - DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
  - DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
  - EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS
  - LIMITS OF CONSTRUCTION

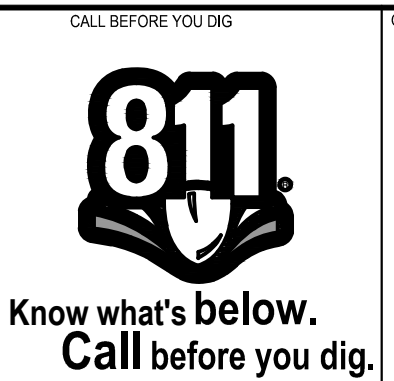
**PLAN**  
SCALE: 1" = 50'



**PROFILE - STA. 0+00 TO 7+00**  
HOR. 1" = 50'  
VER. 1" = 10'

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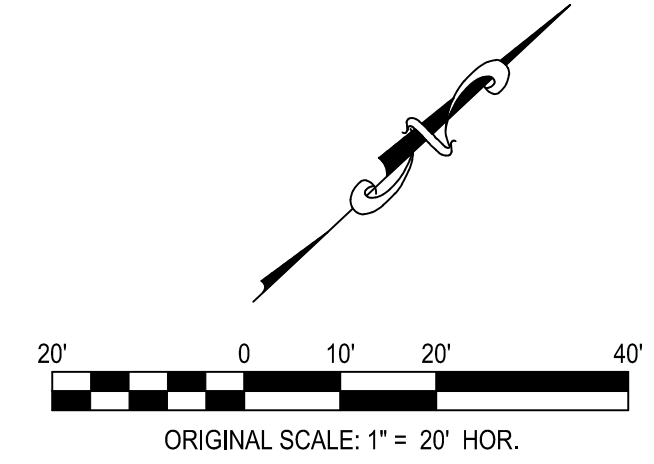
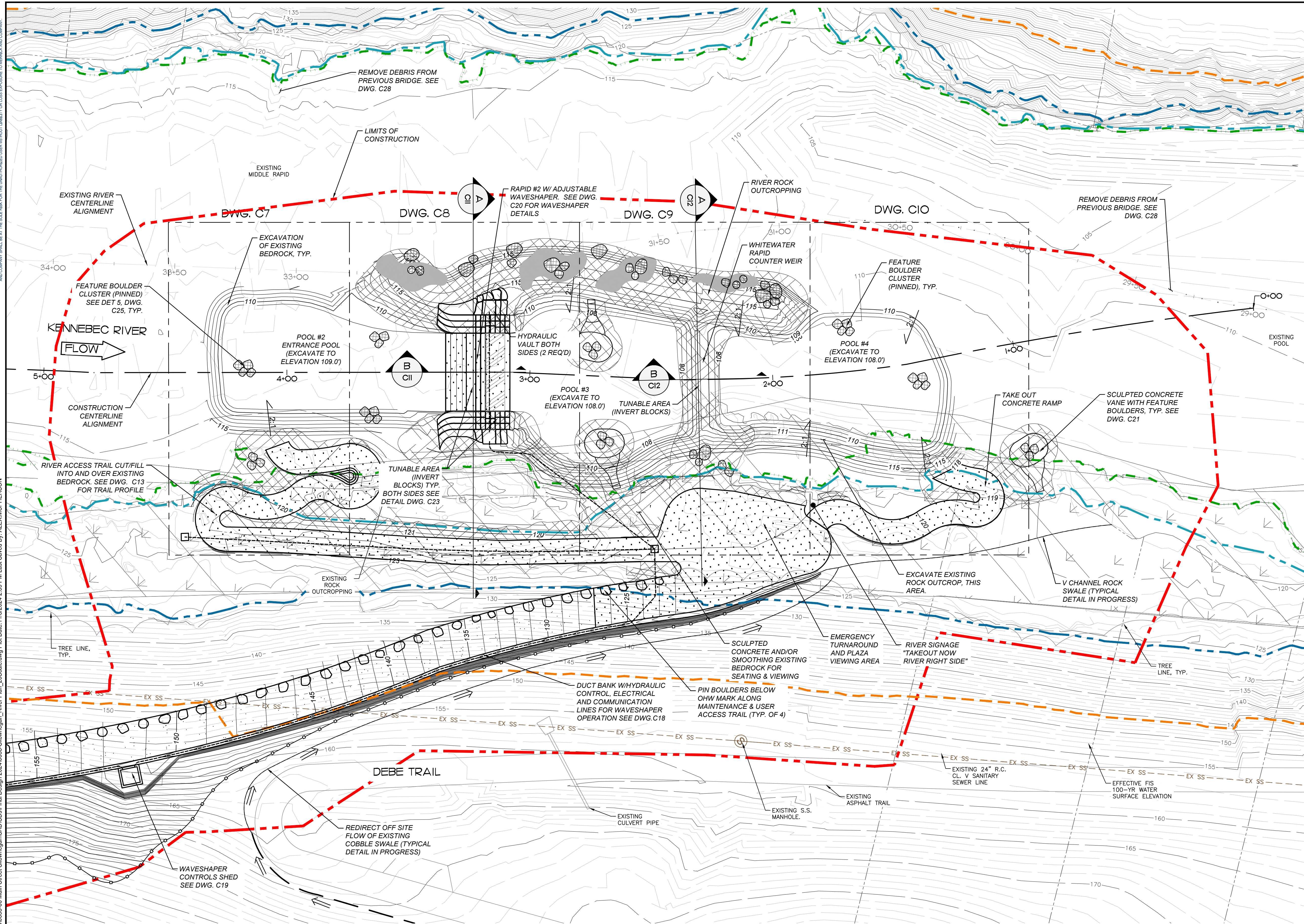
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TITLE  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**CONSTRUCTION CENTERLINE PLAN AND PROFILE**  
 STA. 0+00 TO STA. 7+00

JOB NUMBER 65420956  
 DATE NOVEMBER 2024  
 DRAWING NO. **C5**  
 SHEET NO. 5 of 33

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**LEGEND**

	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED ASPHALT (PLAN)
	PROPOSED CONCRETE (PLAN)
	MULTI-LAYER GROUTED BOULDERS (PLAN)
	SCULPTED CONCRETE (PLAN)
	GROUTED CORE ROCK
	CONCRETE FACE
	SCULPTED CONCRETE (SECTION)
	CONCRETE (SECTION)
	EXISTING BEDROCK (SECTION)
	FEATURE BOULDER
	ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
	DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
	DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
	EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS
	LIMITS OF CONSTRUCTION

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR

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PROJ # 120956

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TITLE

**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE

**DETAILED SITE PLAN**

JOB NUMBER  
65420956

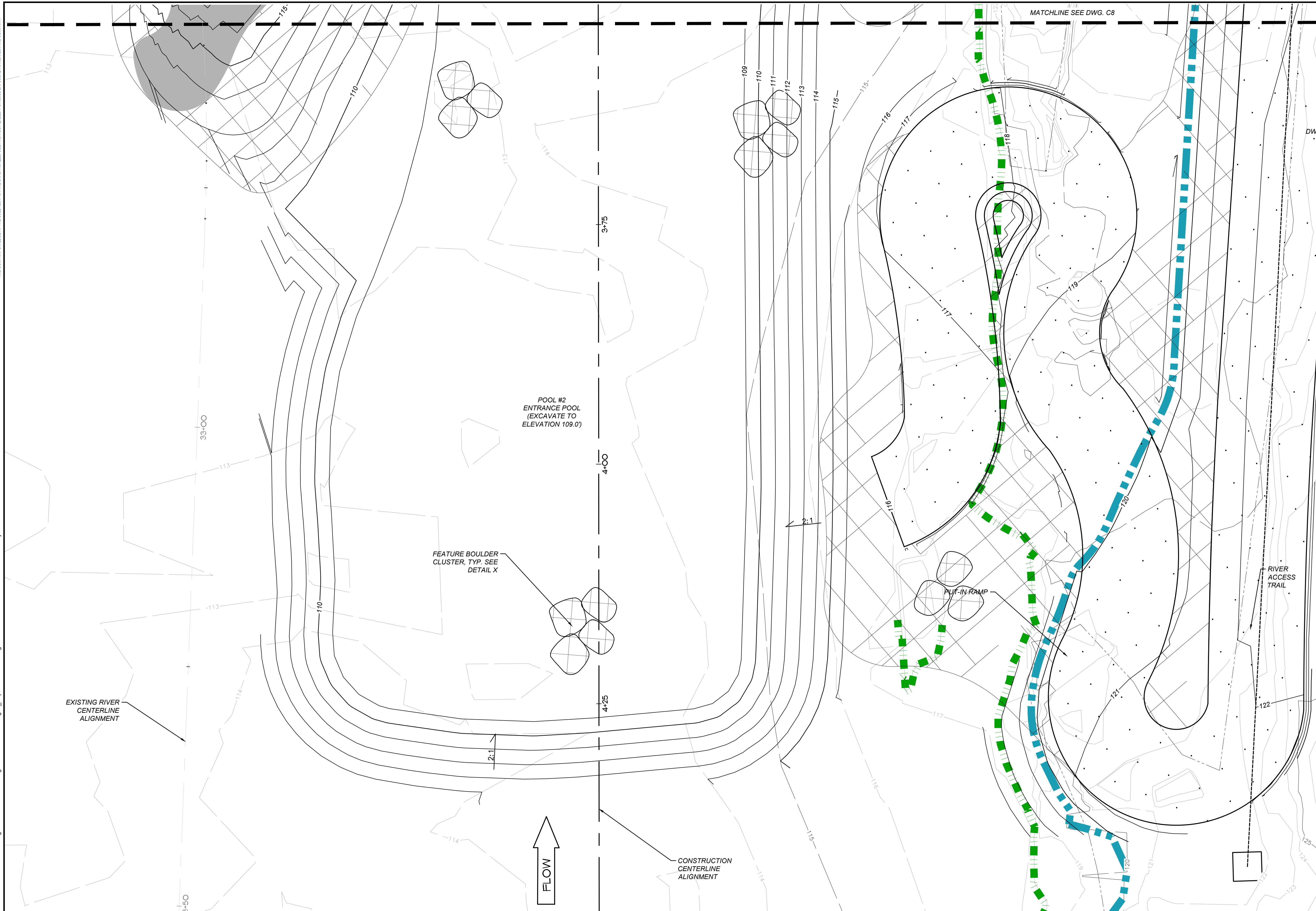
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NOVEMBER 2024

DRAWING NO.  
**C6**

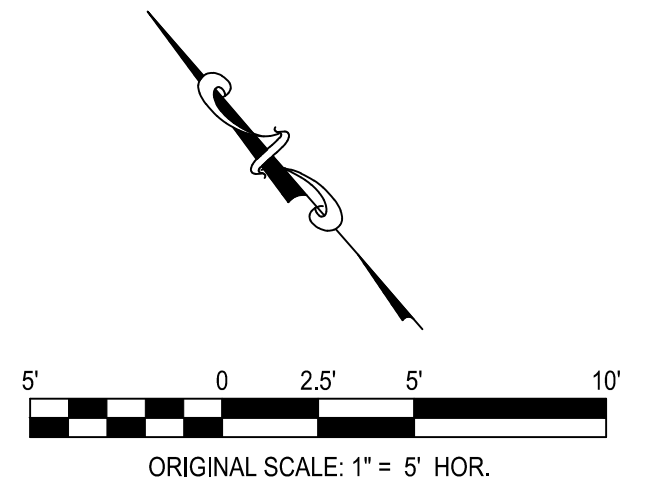
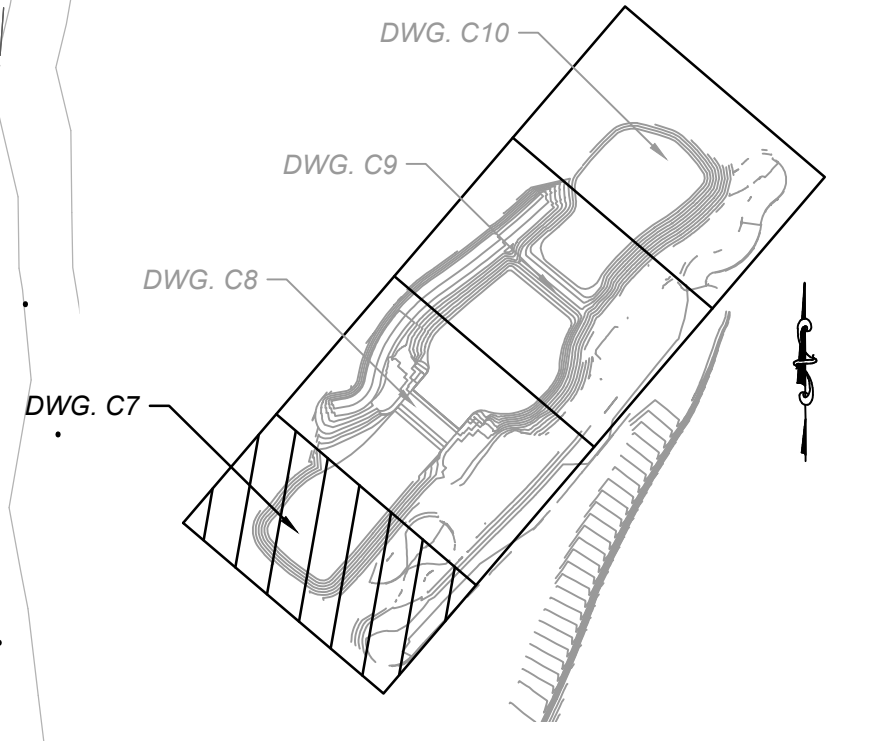
SHEET NO.  
6 of 33

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KEY MAP  
SCALE: 1" = 100'



LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED ASPHALT (PLAN)
- PROPOSED CONCRETE (PLAN)
- MULTI-LAYER GROUTED BOULDERS (PLAN)
- SCULPTED CONCRETE (PLAN)
- GROUTED CORE ROCK
- CONCRETE FACE
- SCULPTED CONCRETE (SECTION)
- CONCRETE (SECTION)
- EXISTING BEDROCK (SECTION)
- FEATURE BOULDER
- ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
- EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR

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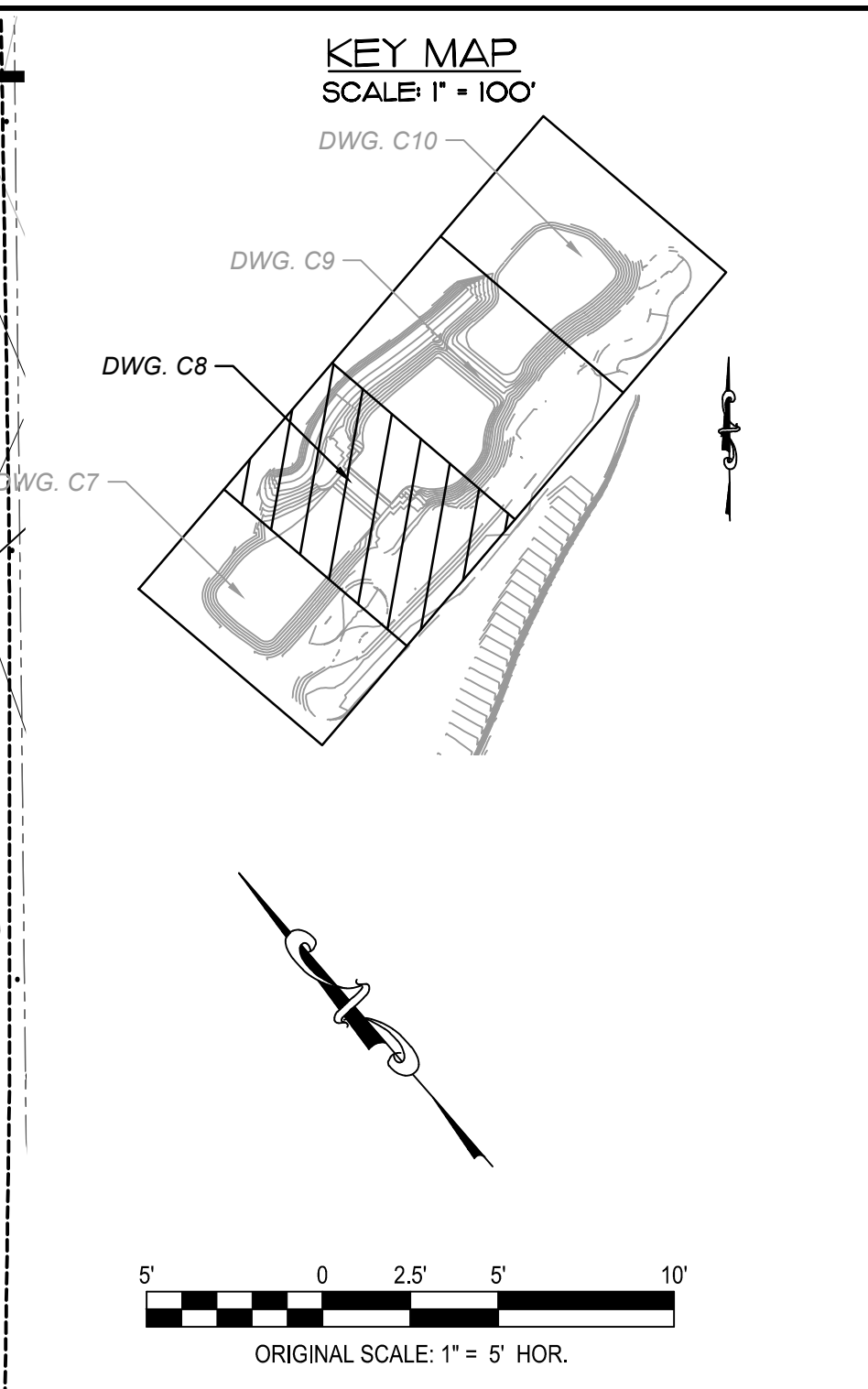
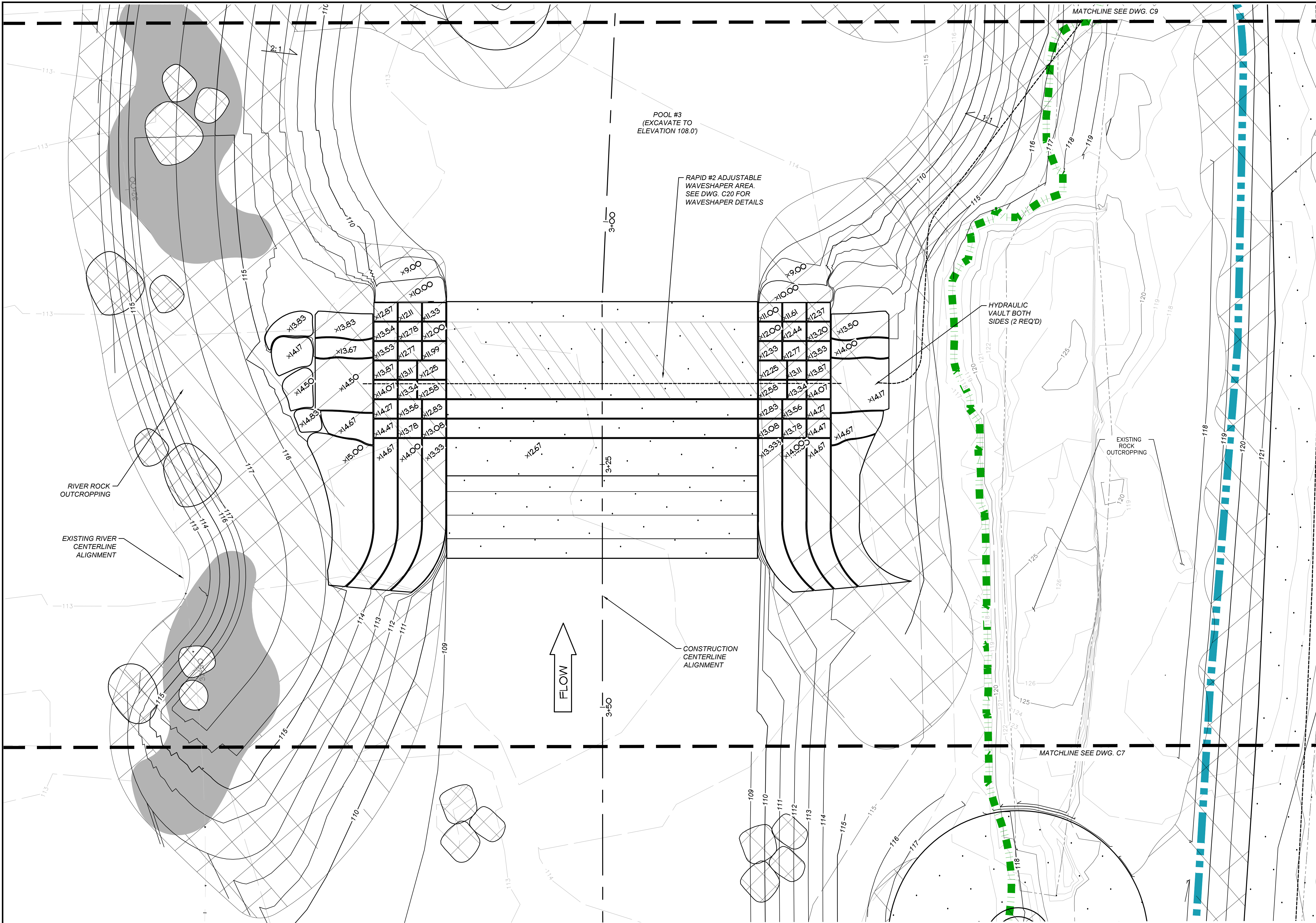
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TITLE  
**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE  
**DETAIL PLAN 1**

JOB NUMBER 65420956  
LIMITS OF CONSTRUCTION  
DATE NOVEMBER 2024  
DRAWING NO. **C7**  
SHEET NO. 7 of 33

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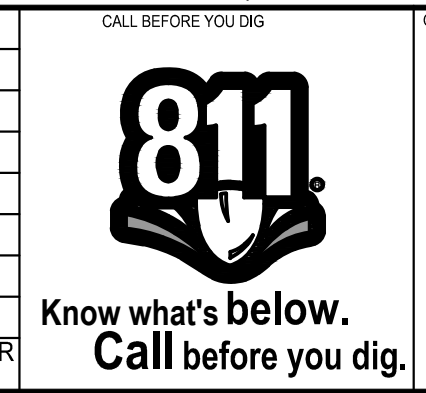
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**LEGEND**

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED ASPHALT (PLAN)
- PROPOSED CONCRETE (PLAN)
- MULTI-LAYER GROUTED BOULDERS (PLAN)
- SCULPTED CONCRETE (PLAN)
- GROUTED CORE ROCK
- CONCRETE FACE
- SCULPTED CONCRETE (SECTION)
- CONCRETE (SECTION)
- EXISTING BEDROCK (SECTION)
- FEATURE BOULDER
- ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
- EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



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PROJ # 120956

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TITLE

**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE

**DETAIL PLAN 2**

JOB NUMBER: 65420956

DATE: NOVEMBER 2024

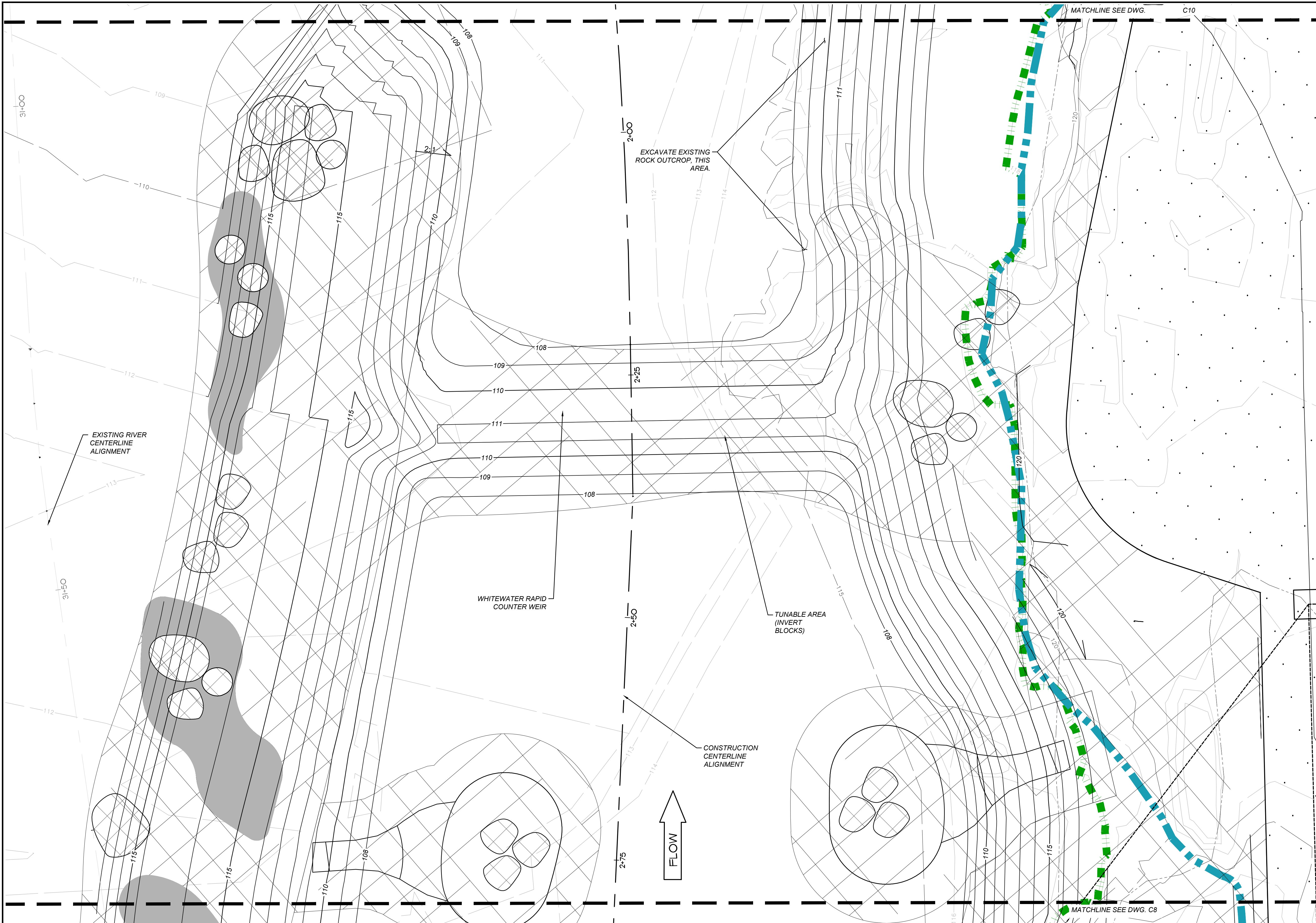
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SHEET NO. 8 of 33

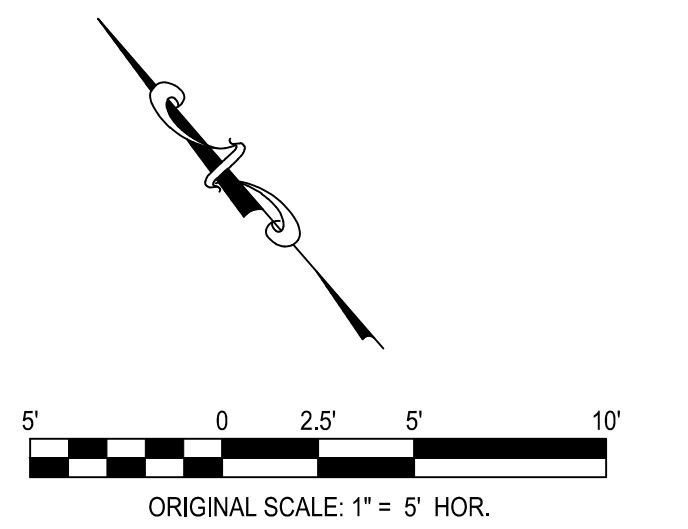
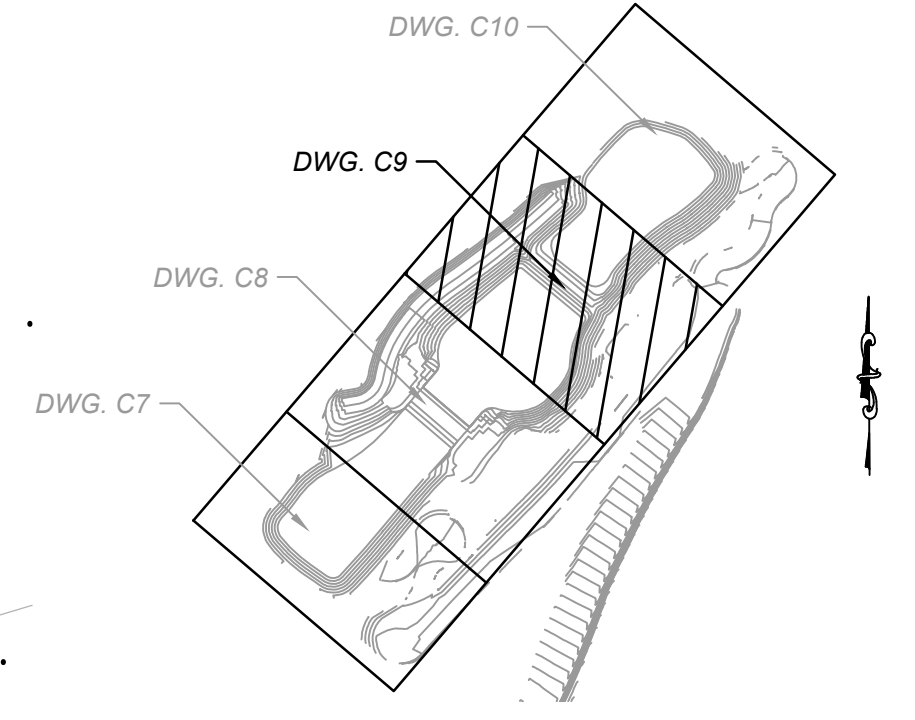


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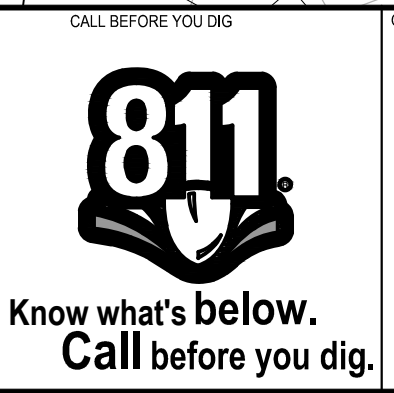


KEY MAP  
SCALE 1" = 100'



- LEGEND**
- EXISTING CONTOUR MAJOR
  - EXISTING CONTOUR MINOR
  - PROPOSED CONTOUR MAJOR
  - PROPOSED CONTOUR MINOR
  - PROPOSED ASPHALT (PLAN)
  - PROPOSED CONCRETE (PLAN)
  - MULTI-LAYER GROUTED BOULDERS (PLAN)
  - SCULPTED CONCRETE (PLAN)
  - GROUTED CORE ROCK
  - CONCRETE FACE
  - SCULPTED CONCRETE (SECTION)
  - CONCRETE (SECTION)
  - EXISTING BEDROCK (SECTION)
  - FEATURE BOULDER
  - ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
  - DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
  - DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
  - EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



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**TOWN OF SKOWHEGAN**  
PROJ # 120956

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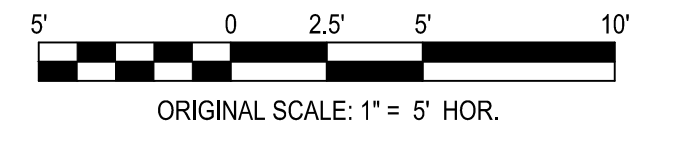
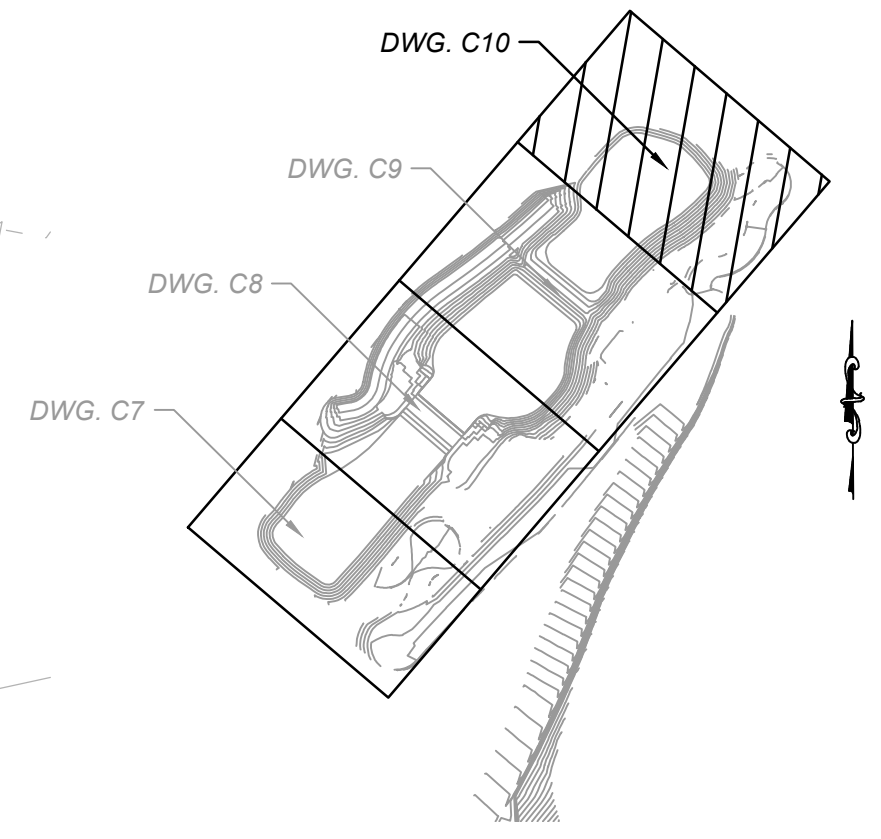
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**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE  
**DETAIL PLAN 3**

JOB NUMBER: 65420956  
LIMITS OF CONSTRUCTION  
DATE: NOVEMBER 2024  
DRAWING NO.: **C9**  
SHEET NO.: 9 of 33

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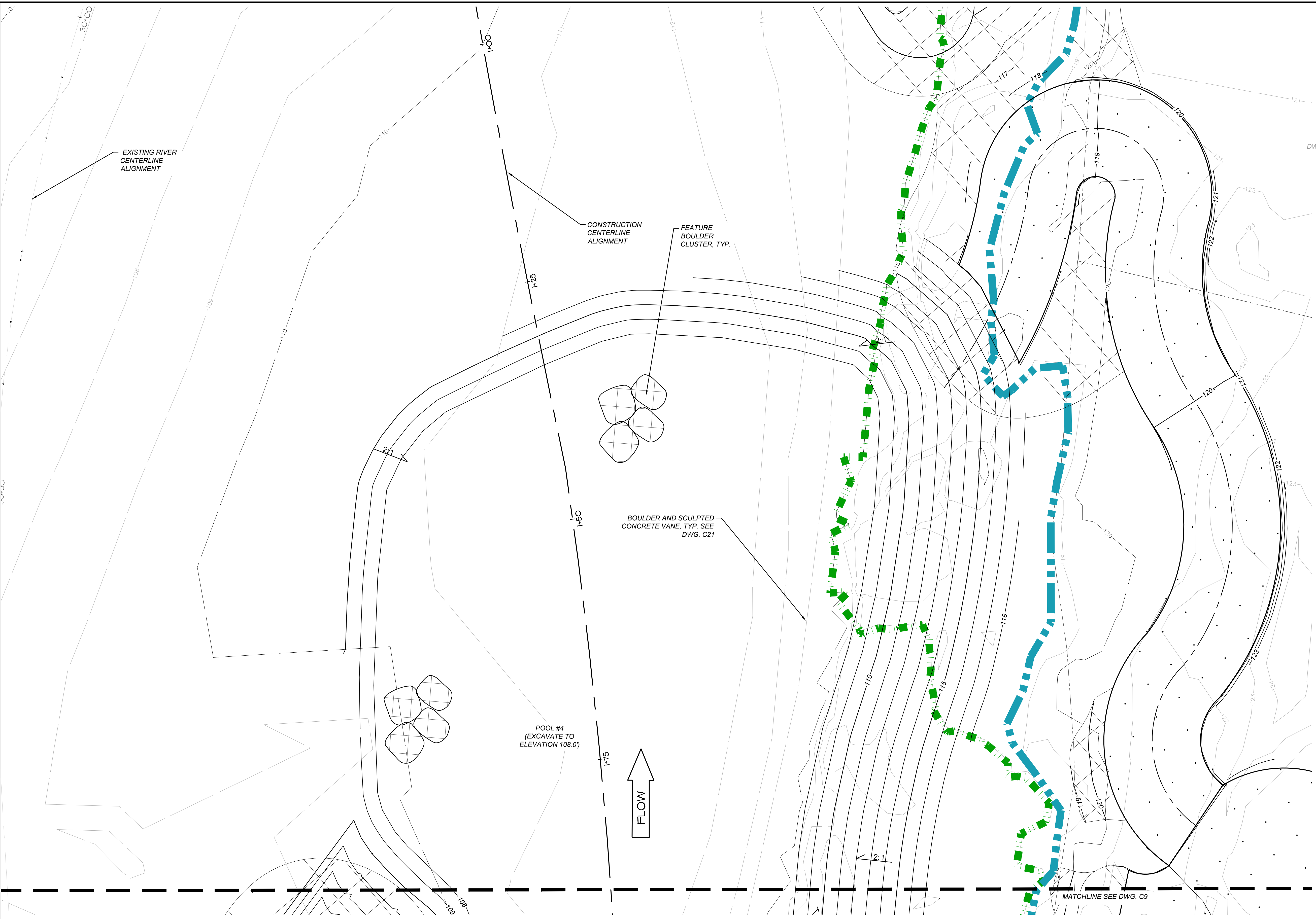
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KEY MAP  
SCALE: 1" = 100'



LEGEND

- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED ASPHALT (PLAN)
- PROPOSED CONCRETE (PLAN)
- MULTI-LAYER GROUTED BOULDERS (PLAN)
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- GROUTED CORE ROCK
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- SCULPTED CONCRETE (SECTION)
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- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
- EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS



REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



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PROJ # 120956

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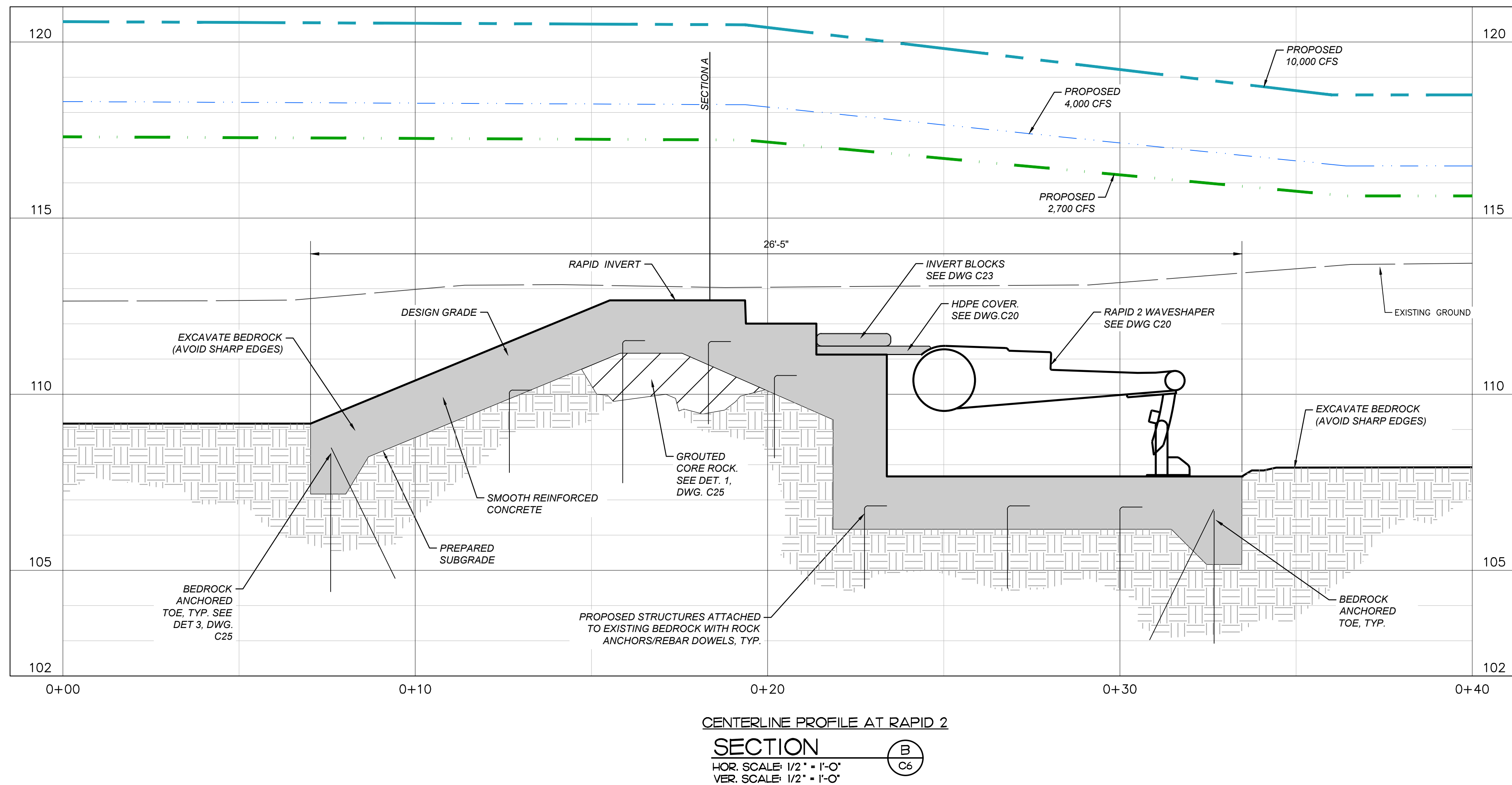
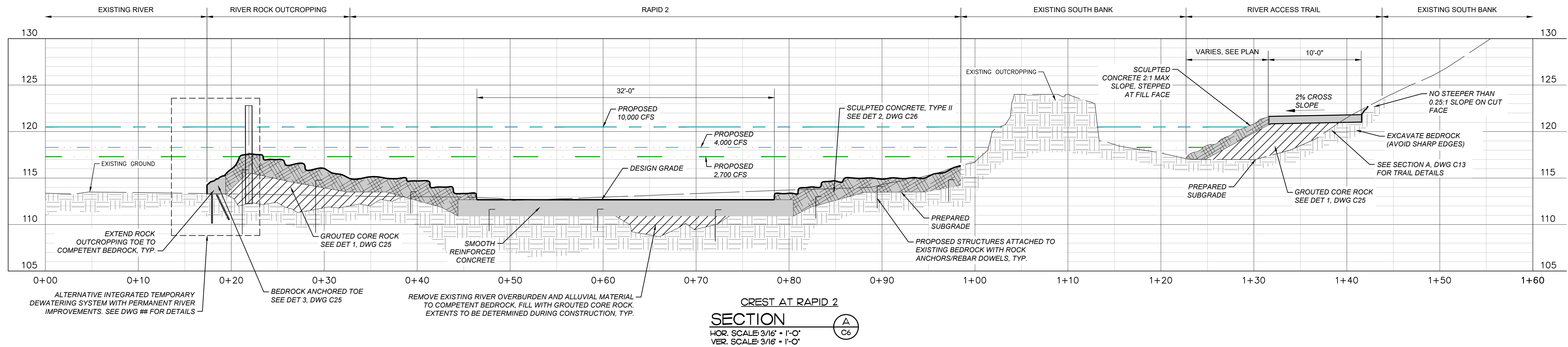
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TITLE  
**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE  
**DETAIL PLAN 4**

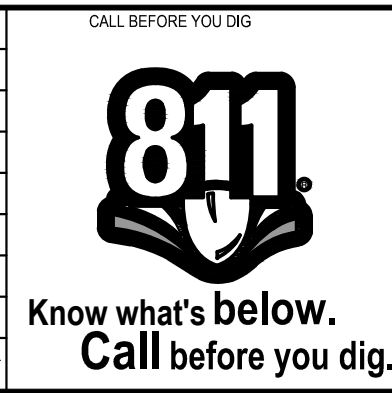
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DATE NOVEMBER 2024  
DRAWING NO. **C10**  
SHEET NO. 10 of 33

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 PROJ # 120956



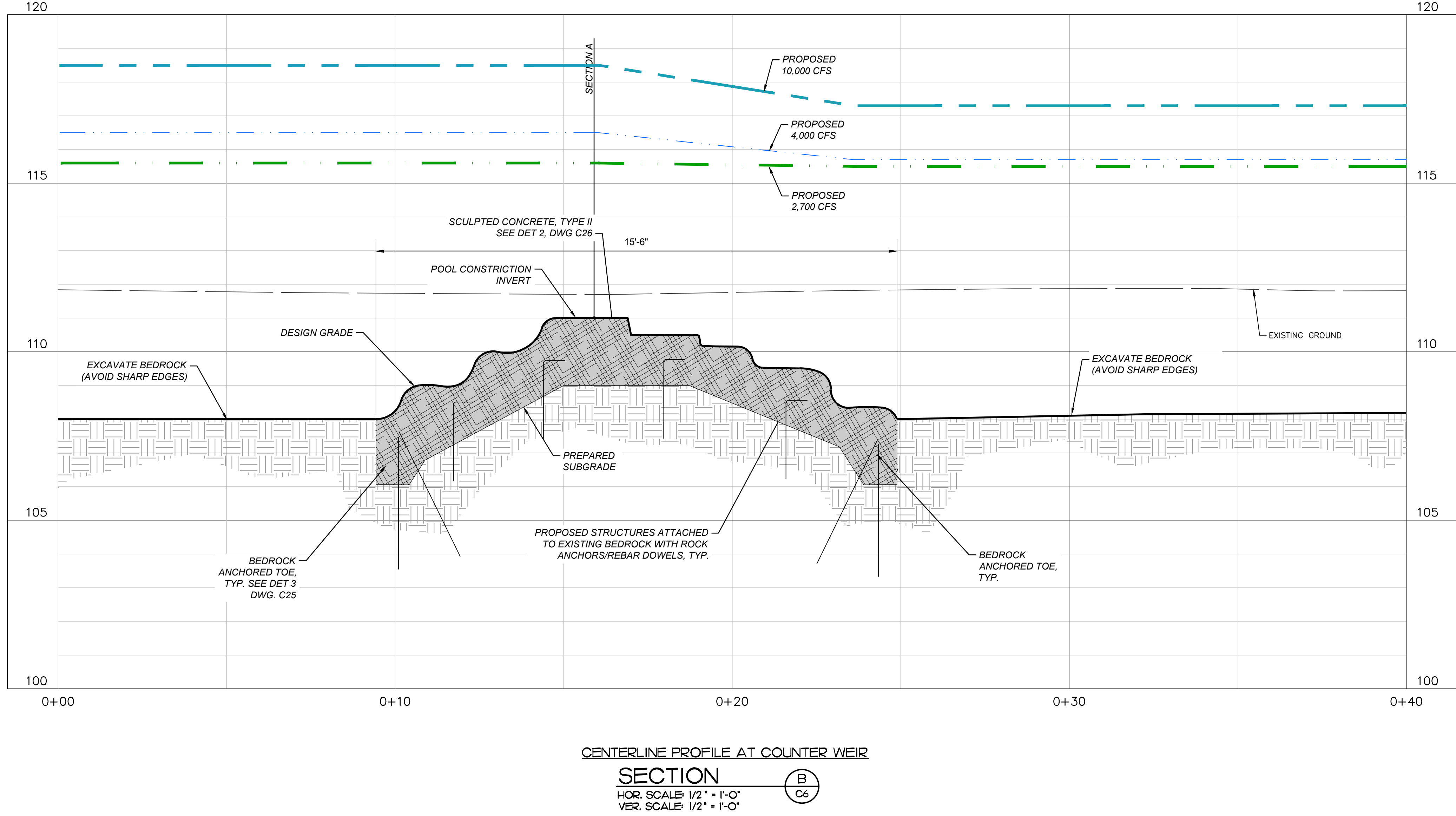
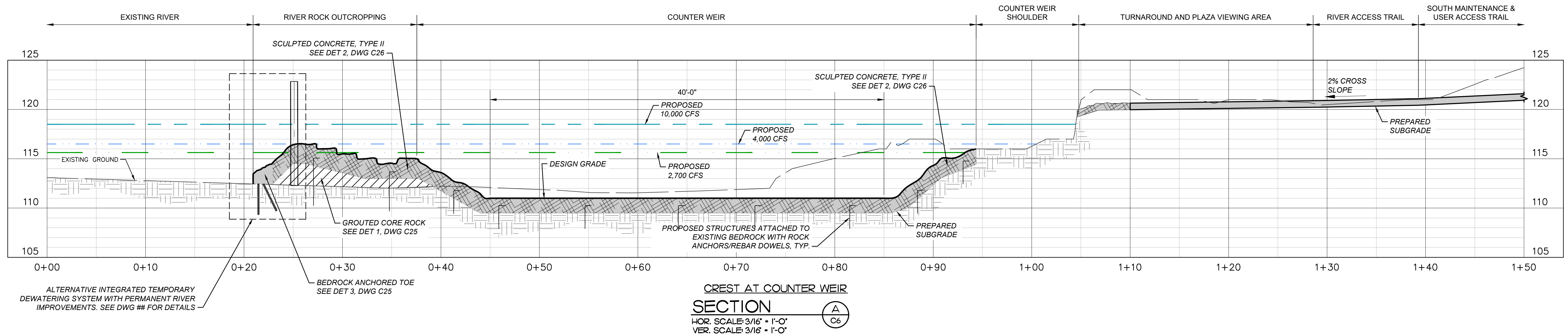
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 FOR AND ON BEHALF OF MERRICK & COMPANY

TITLE:  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**WHITEWATER RAPID 2 CROSS SECTIONS**

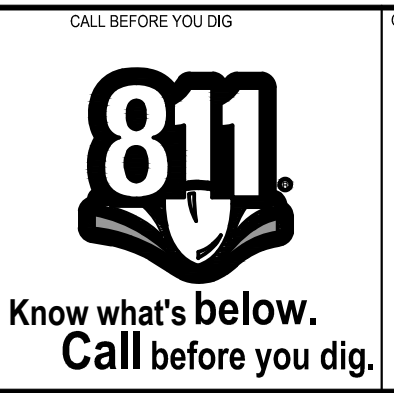
JOB NUMBER: 65420956  
 DATE: NOVEMBER 2024  
 DRAWING NO.: **C11**  
 SHEET NO. 11 of 33

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TOWN OF SKOWHEGAN  
 PROJ # 120956

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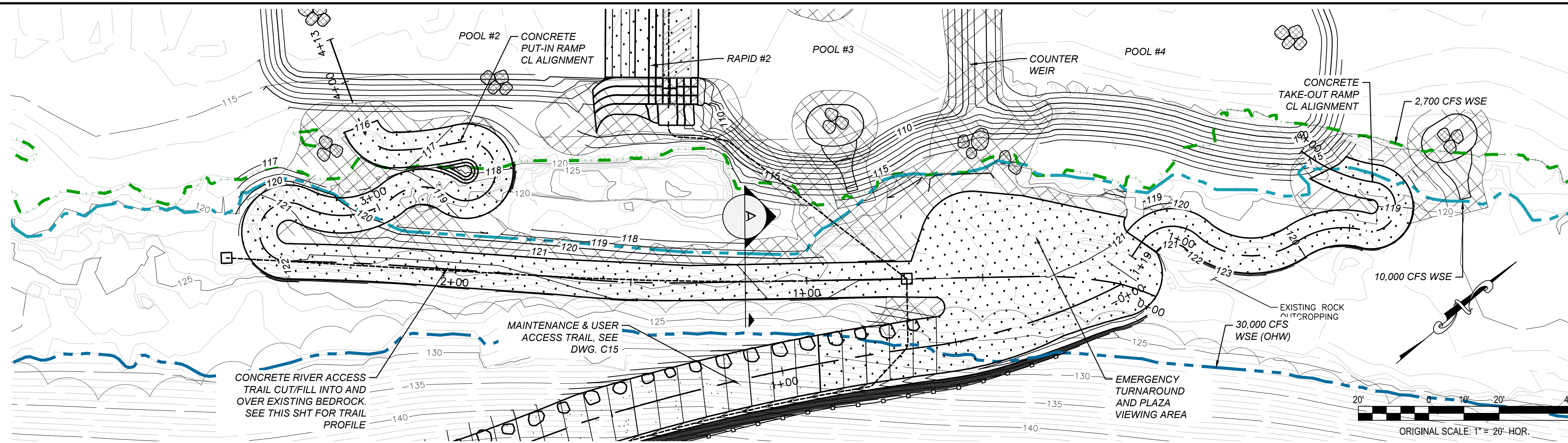
PE STAMP  
 FOR AND ON BEHALF OF MERRICK & COMPANY

TITLE:  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**POOL CONSTRUCTION CROSS SECTIONS**

JOB NUMBER: 65420956  
 DATE: NOVEMBER 2024  
 DRAWING NO.: C12  
 SHEET NO. 12 of 33

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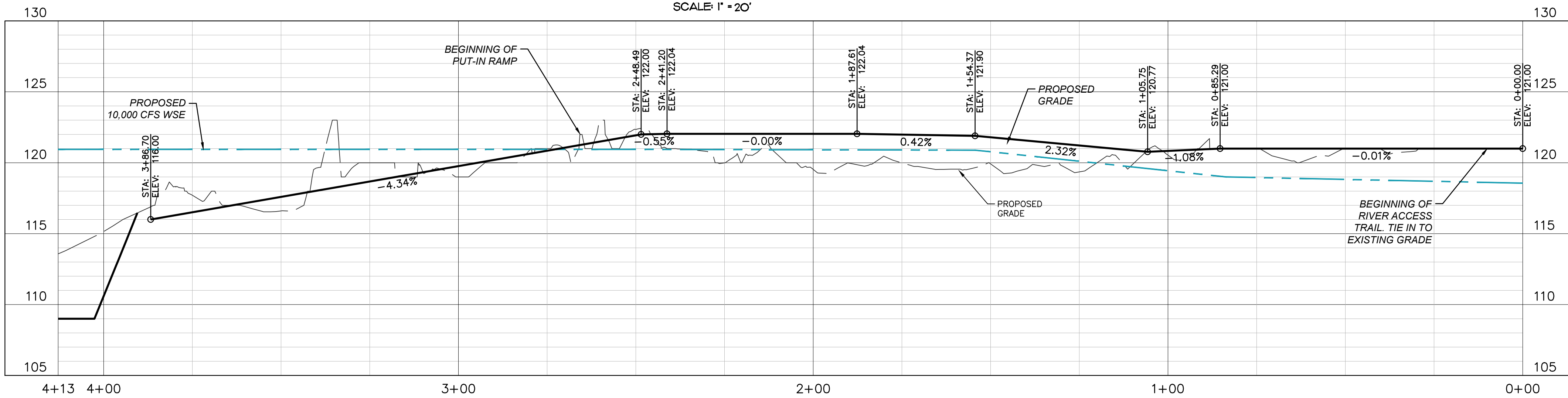
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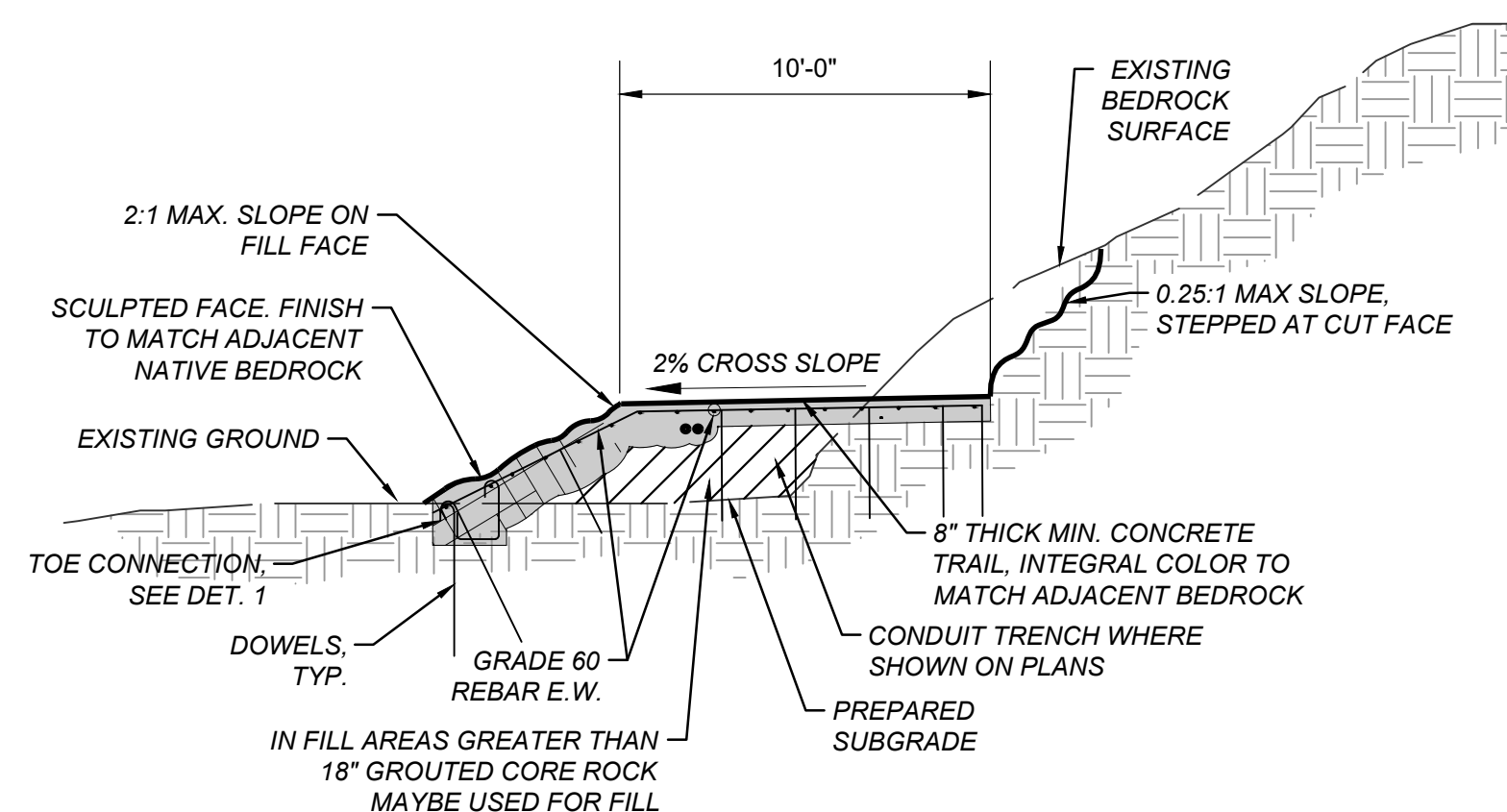
**PLAN**  
SCALE: 1" = 20'

**LEGEND**

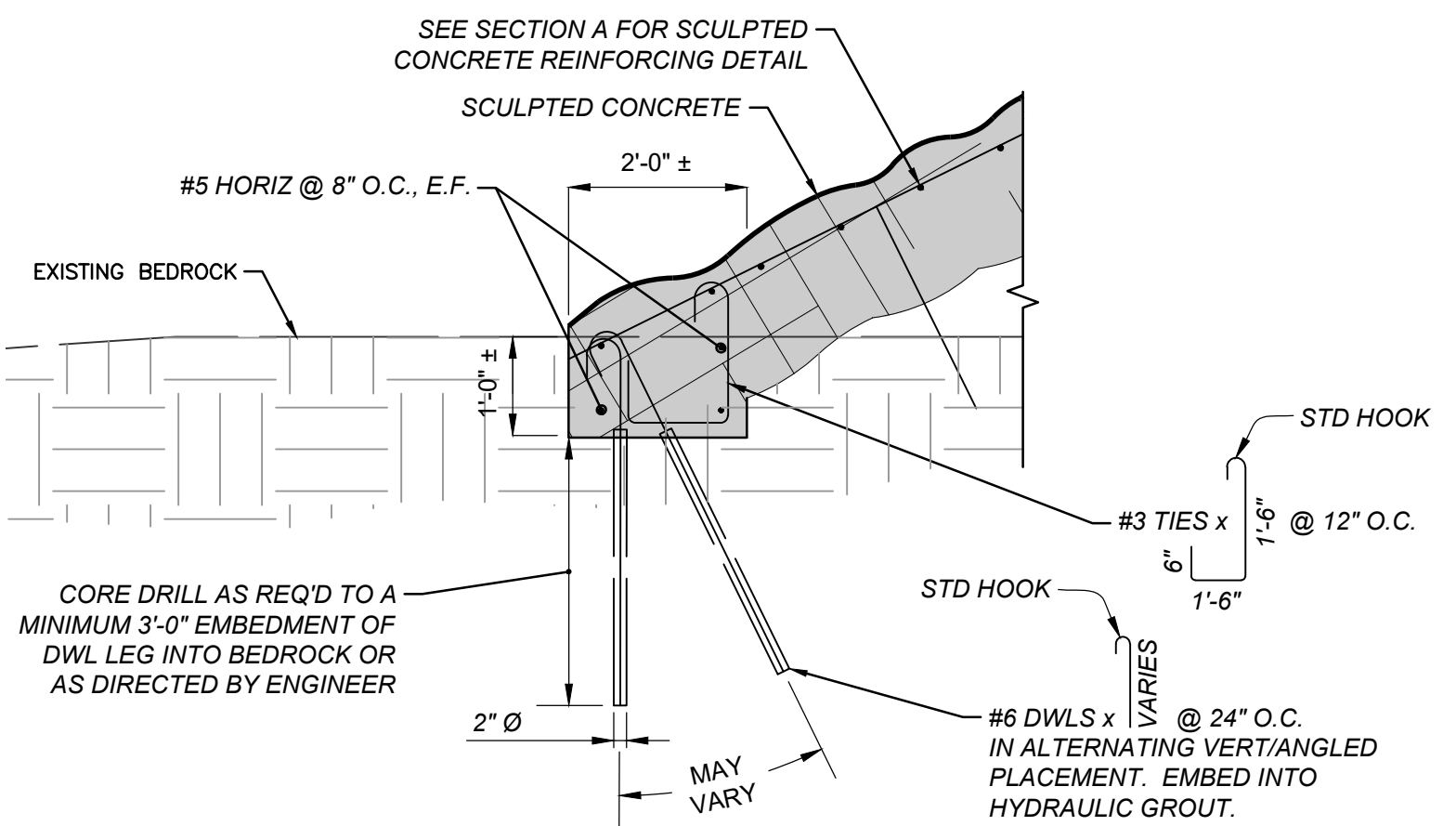
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- PROPOSED ASPHALT (PLAN)
- PROPOSED CONCRETE (PLAN)
- MULTI-LAYER GROUTED BOULDERS (PLAN)
- SCULPTED CONCRETE (PLAN)
- GROUTED CORE ROCK
- CONCRETE FACE
- SCULPTED CONCRETE (SECTION)
- CONCRETE (SECTION)
- EXISTING BEDROCK (SECTION)
- FEATURE BOULDER
- ORDINARY HIGH WATER MARK (Q = 30,000 CFS)
- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 10,000 CFS)
- DESIGN FLOW EXISTING WATER SURFACE LIMITS (Q = 2,700 CFS)
- EFFECTIVE FEMA 100-YR WATER SURFACE LIMITS



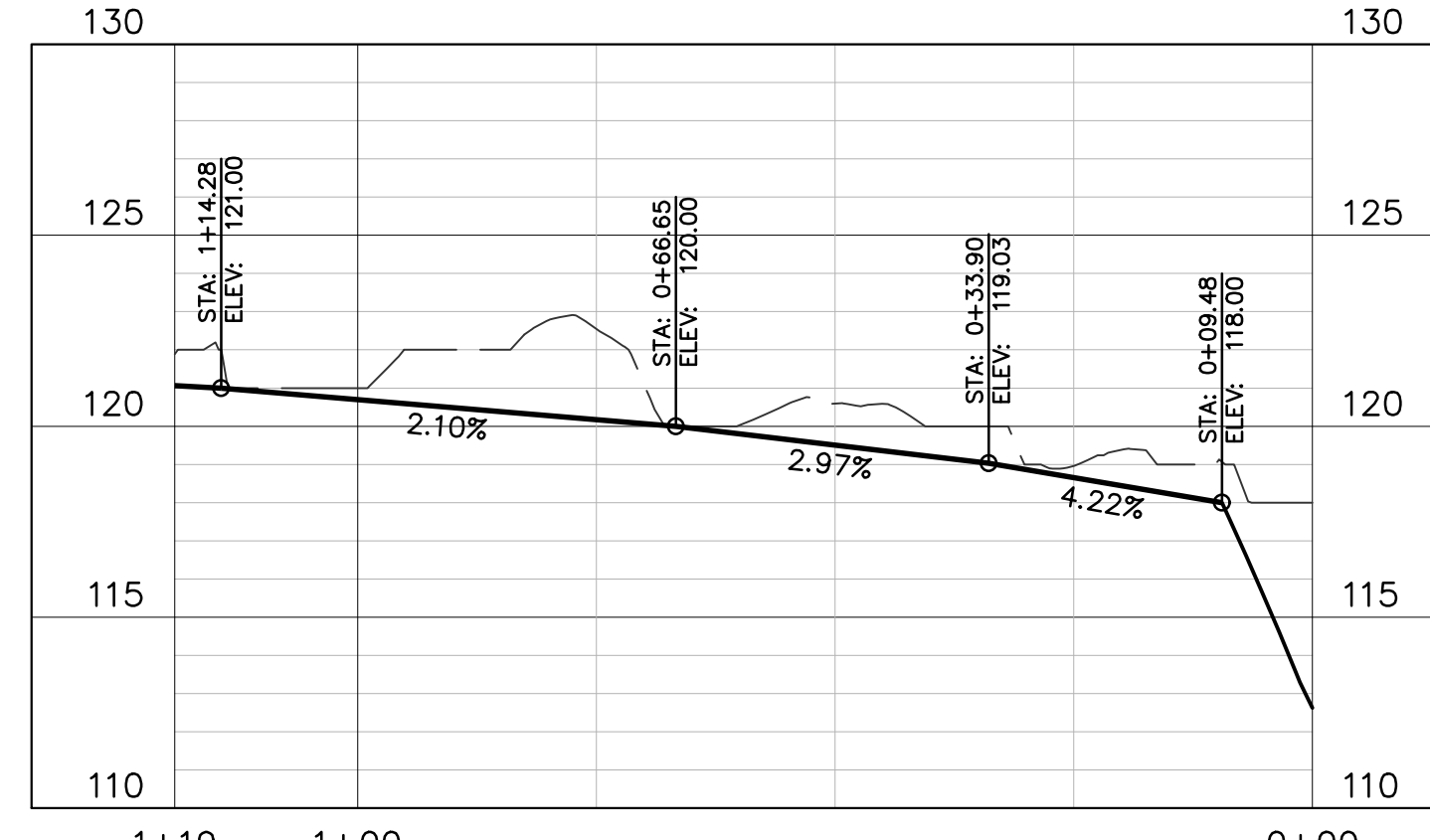
**RIVER ACCESS TRAIL & PUT-IN RAMP**  
**PROFILE VIEW - STA. 0+00 TO 3+99**  
HOR. 1" = 20'  
VER. 1" = 10'



**RIVER ACCESS TRAIL**  
**SECTION**  
HOR. SCALE: 1" = 5'  
VER. SCALE: 1" = 5'

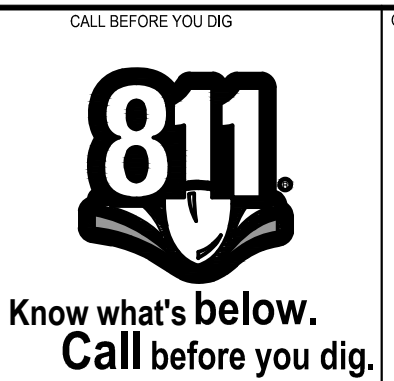


**BEDROCK ANCHORED CONCRETE TOE CONNECTION**  
**DETAIL**  
HOR. 1" = 2'  
VER. 1" = 2'



**TAKE-OUT RAMP**  
**PROFILE VIEW - STA. 0+00 TO 1+19**  
HOR. 1" = 20'  
VER. 1" = 5'

REV	REVISION DESCRIPTION	DATE	CHND	CHKD	APPR



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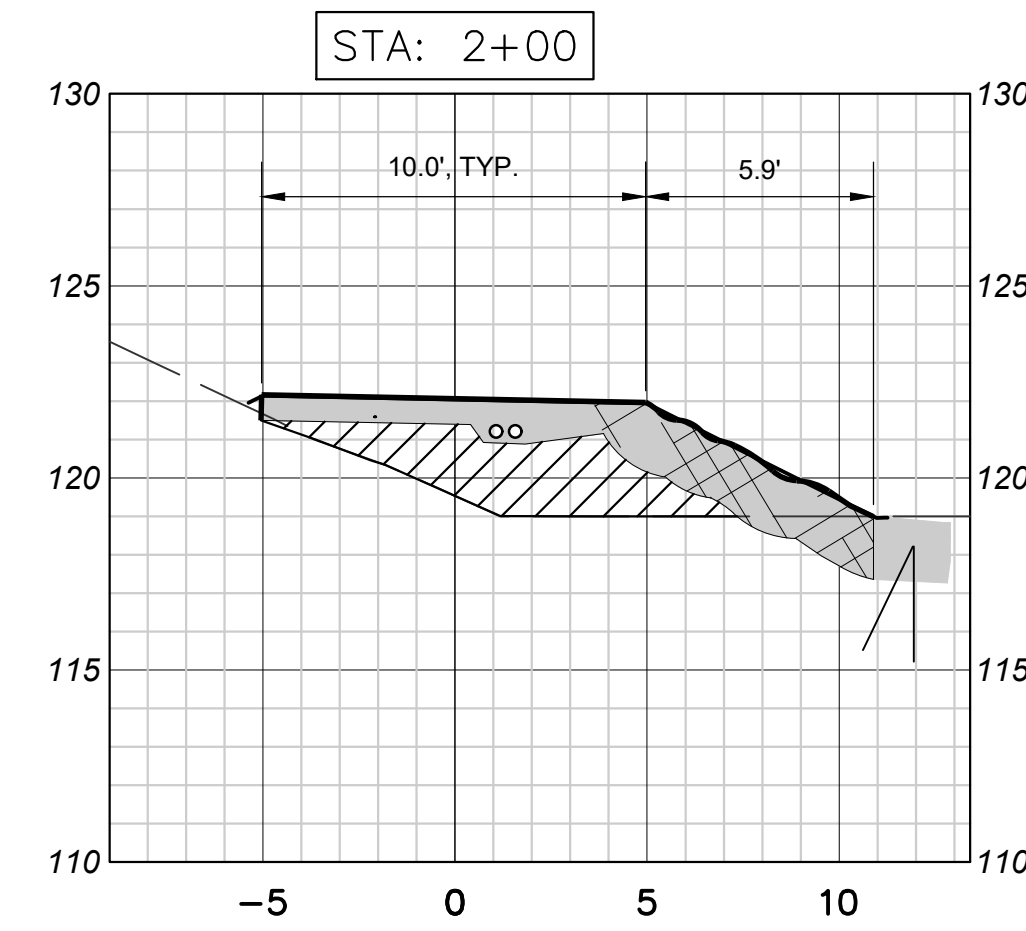
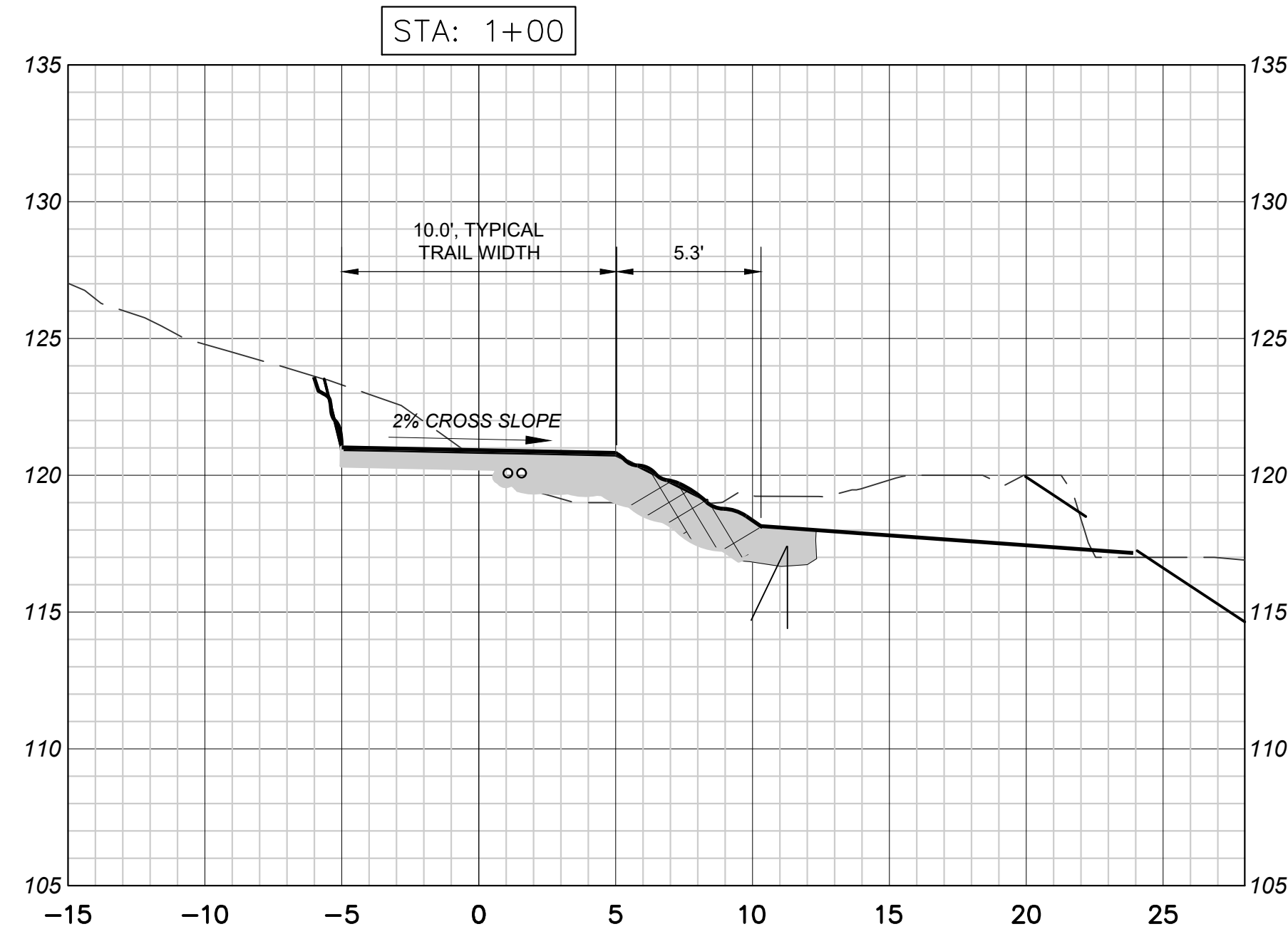
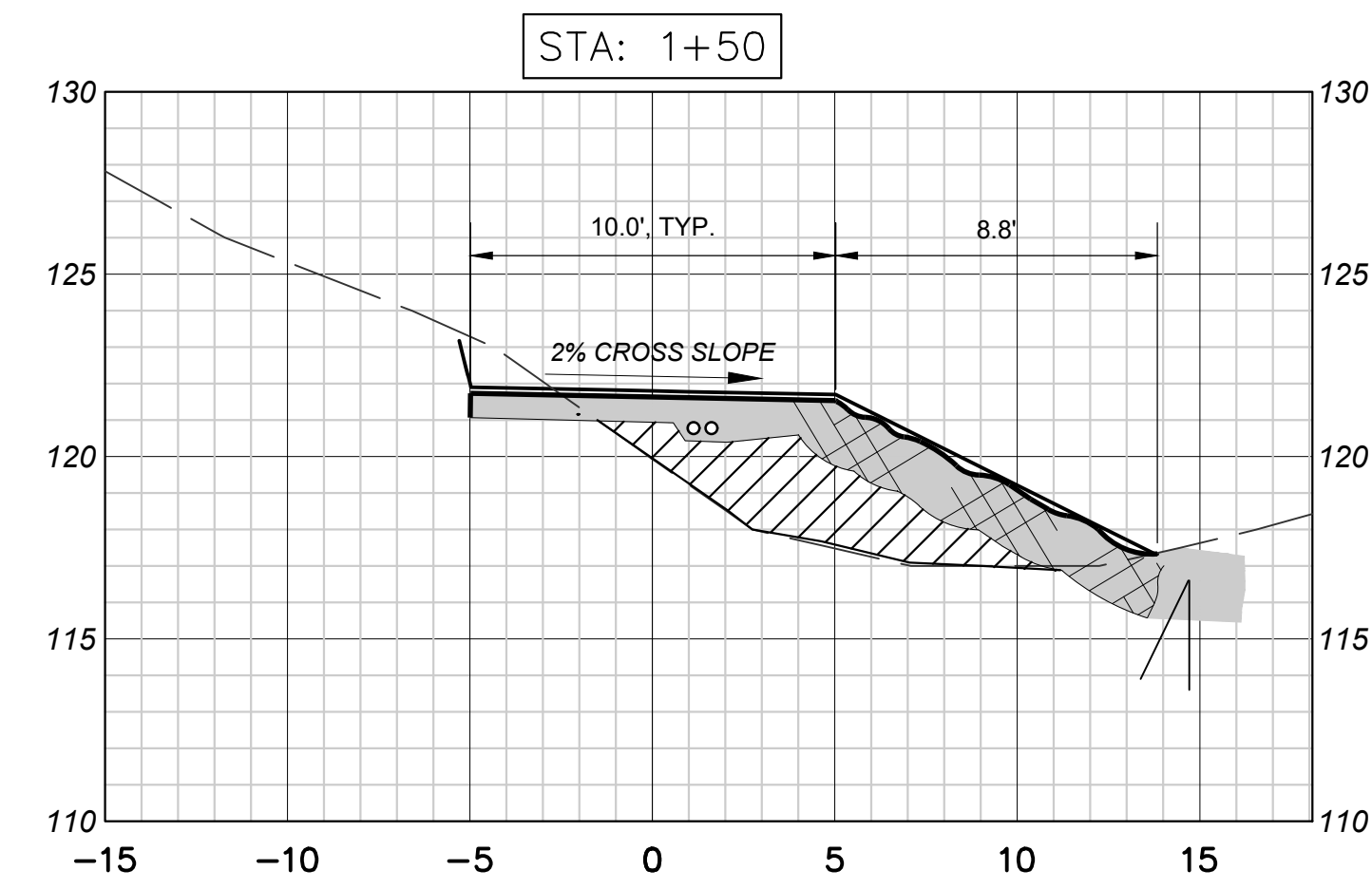
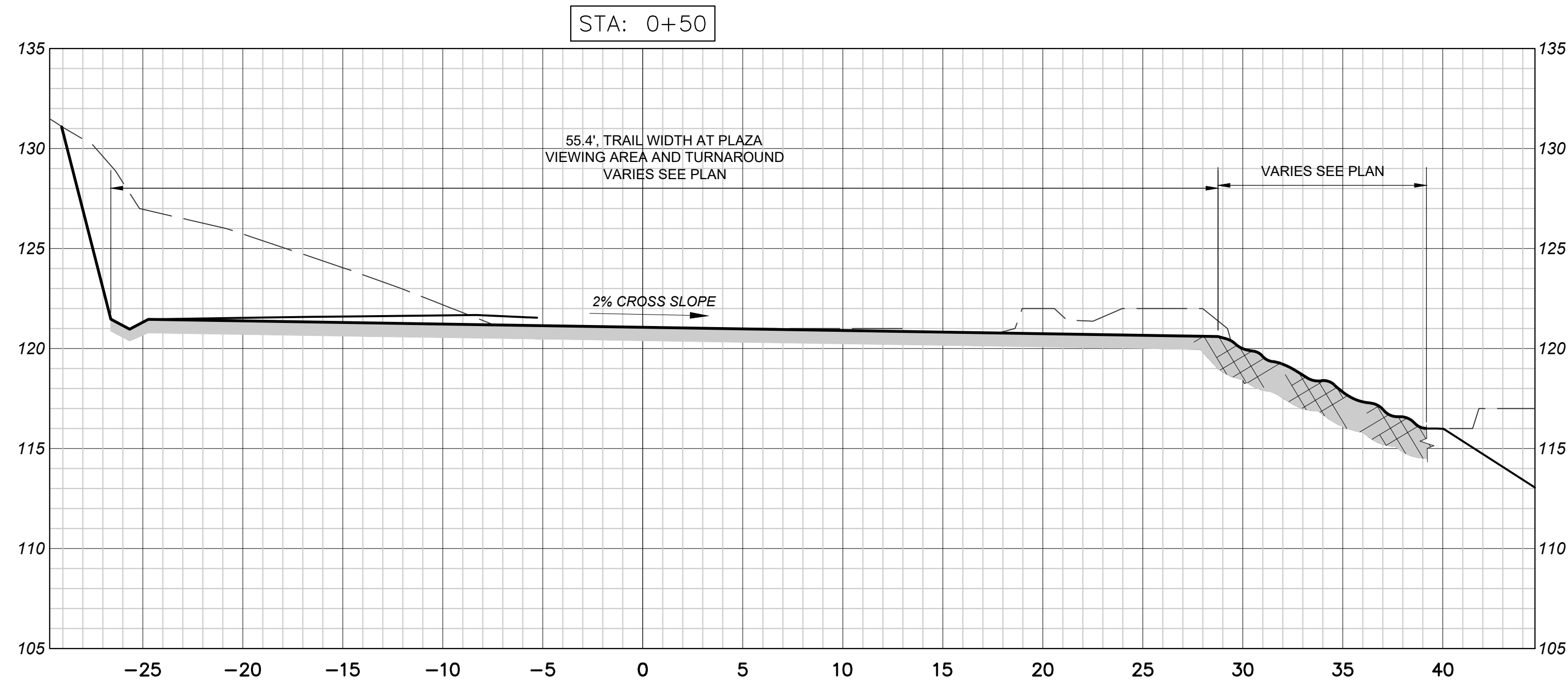
**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE

**RIVER ACCESS TRAIL**  
PLAN & PROFILE

JOB NUMBER	65420956
DATE	NOVEMBER 2024
DRAWING NO.	<b>C13</b>
SHEET NO.	13 of 33

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NOTE:  
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**TOWN OF SKOWHEGAN**  
PROJ # 120956

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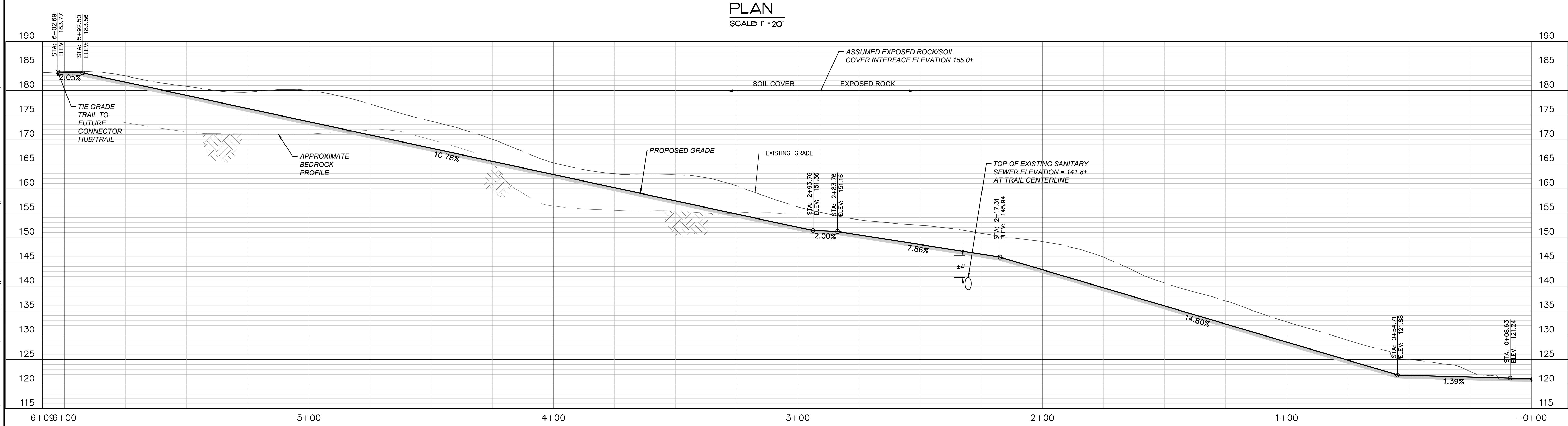
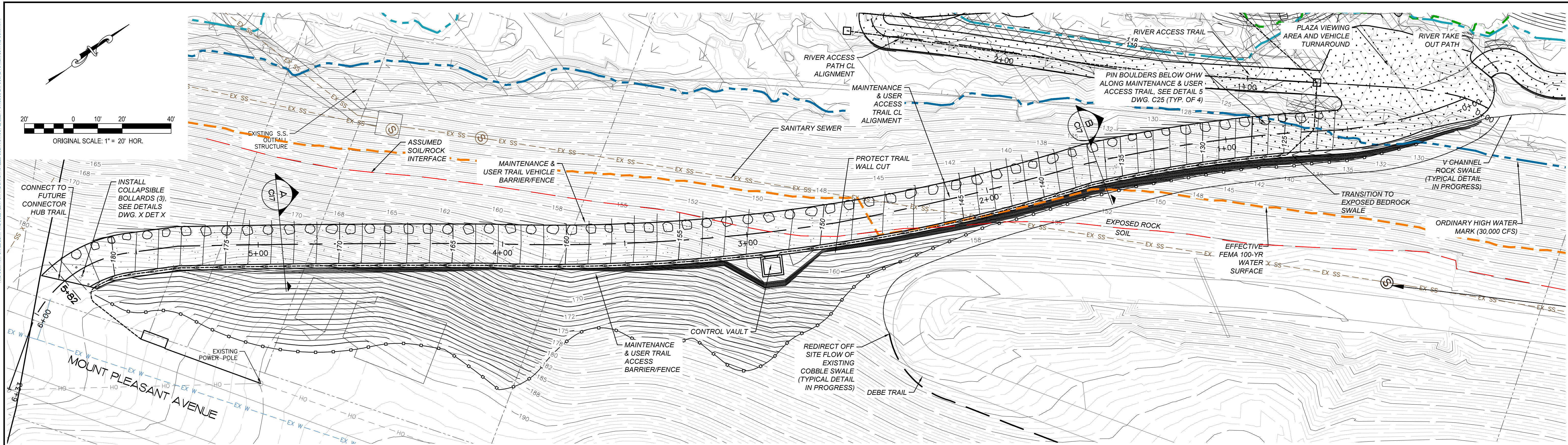


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TITLE  
**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE  
**RIVER ACCESS TRAIL**  
**SECTIONS**

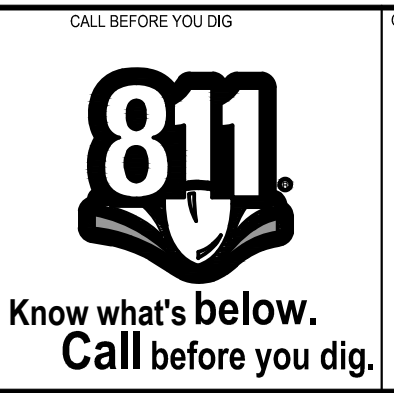
JOB NUMBER 65420956  
DATE NOVEMBER 2024  
DRAWING NO. **C14**  
SHEET NO. 14 of 33

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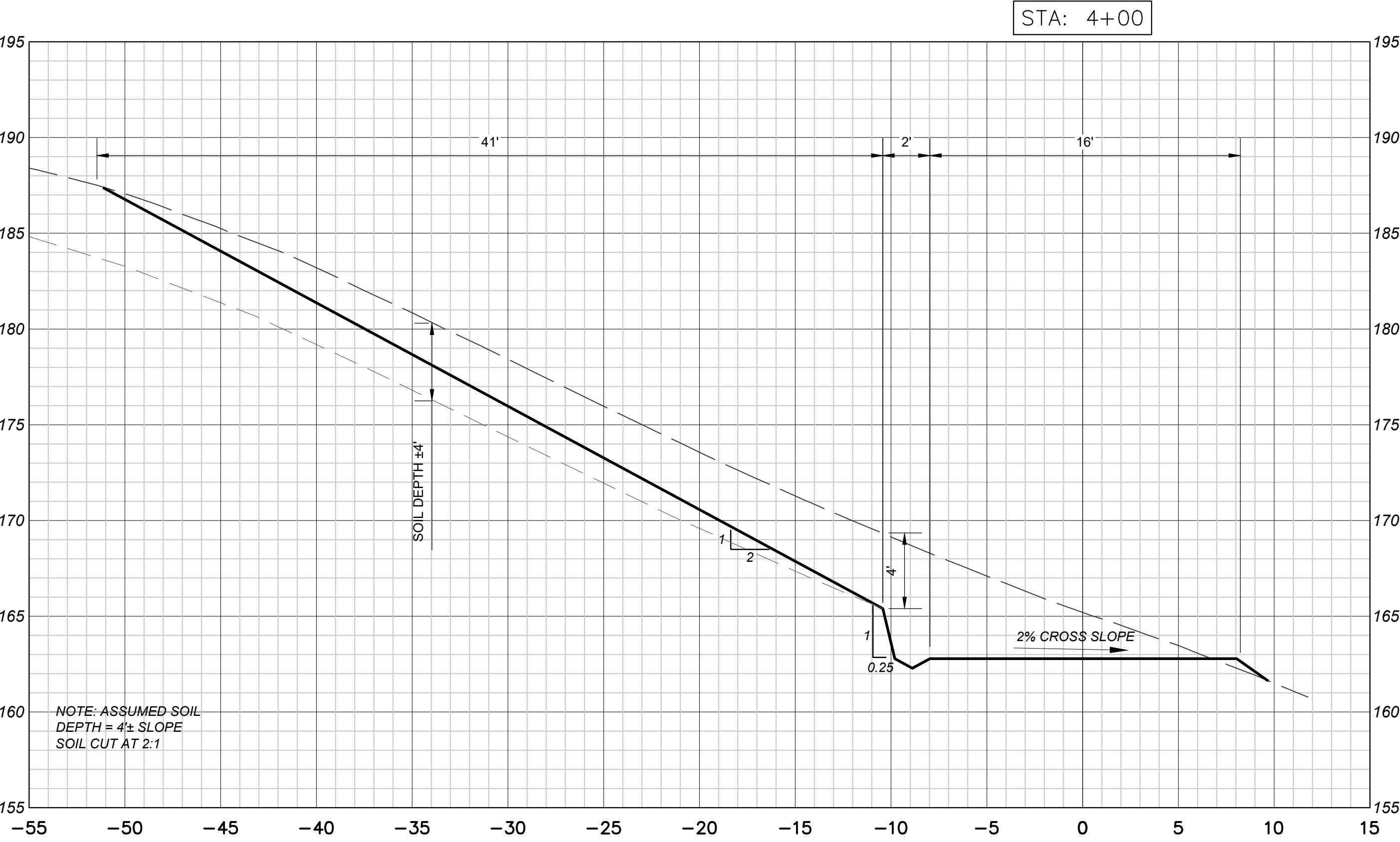
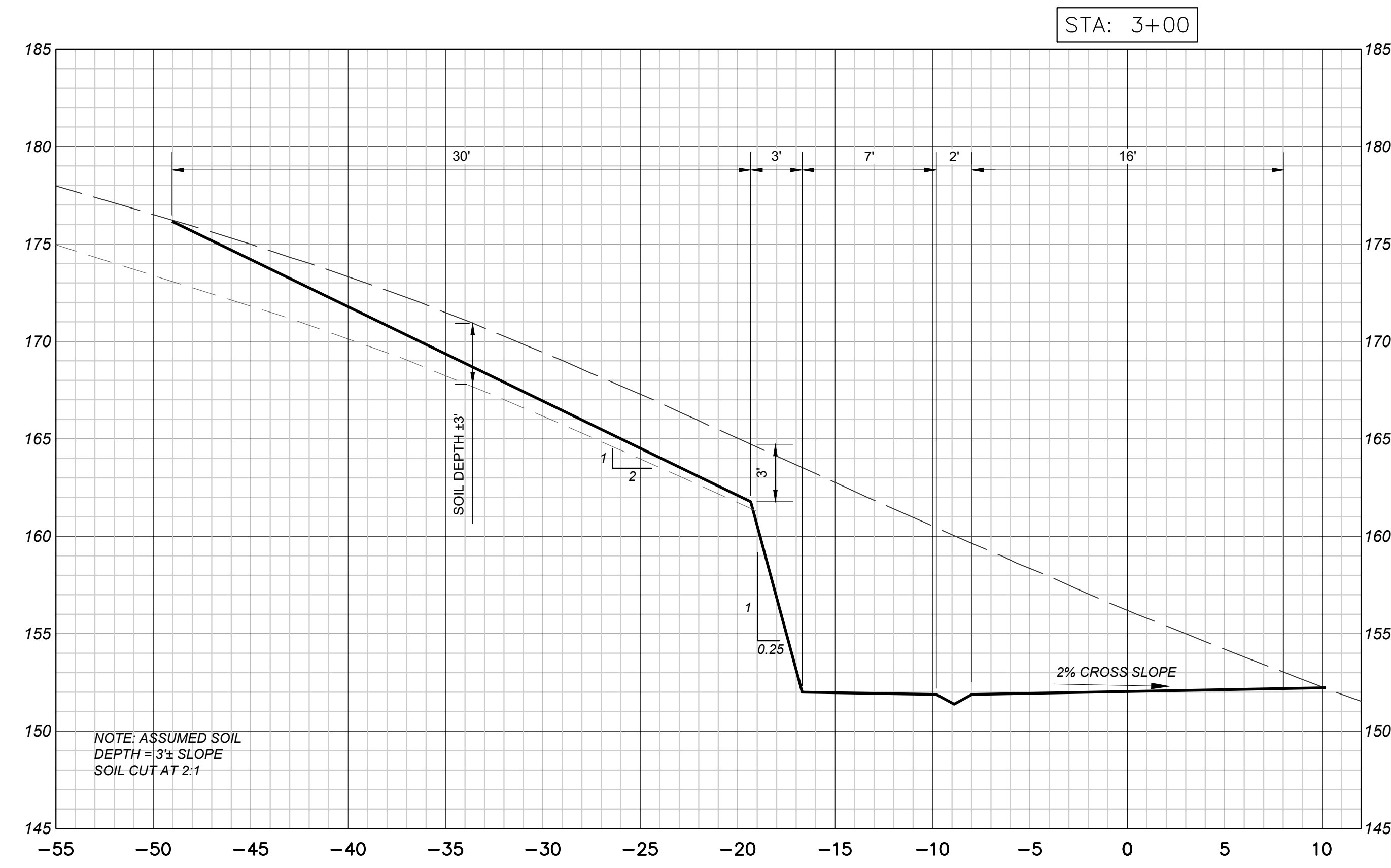
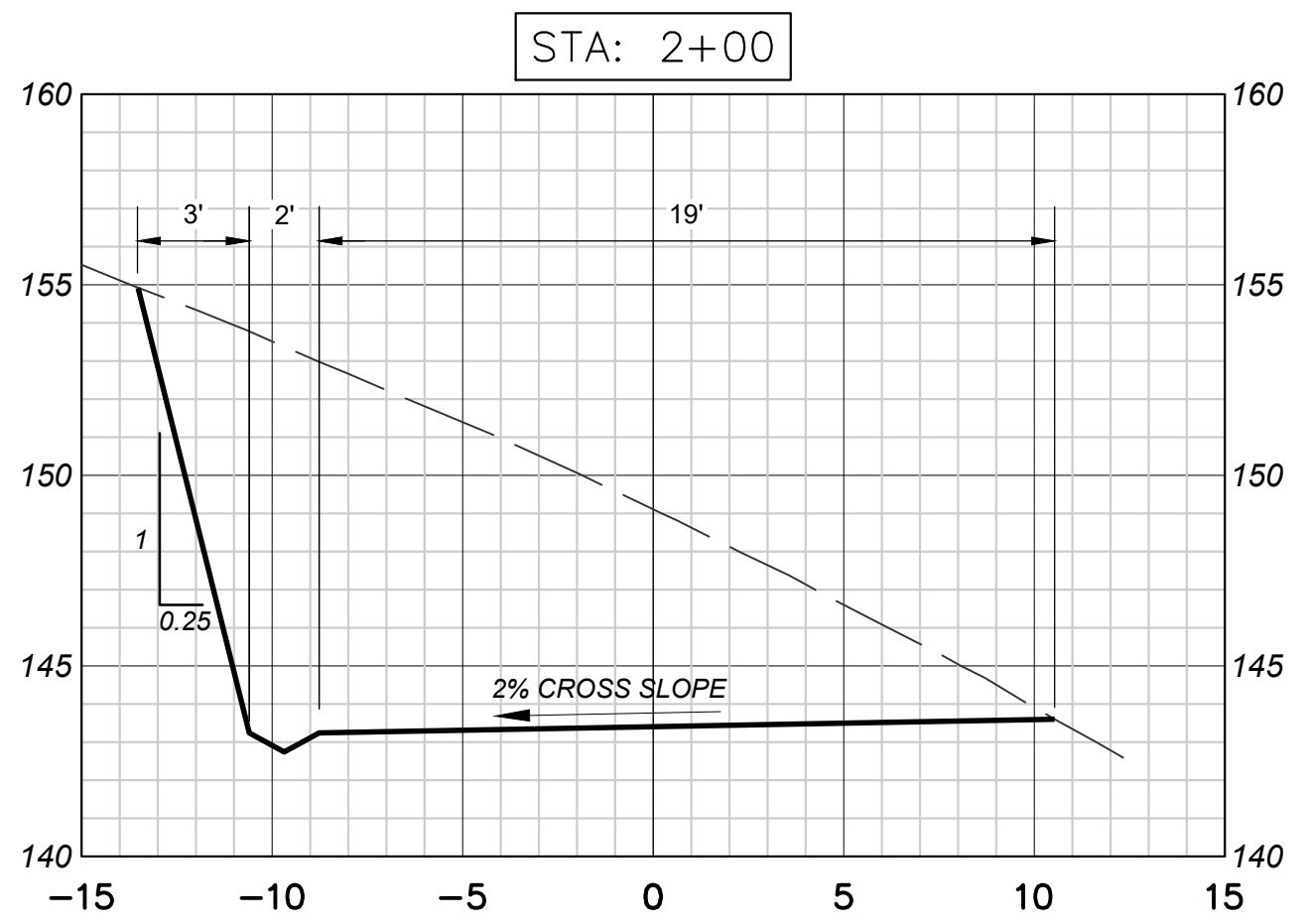
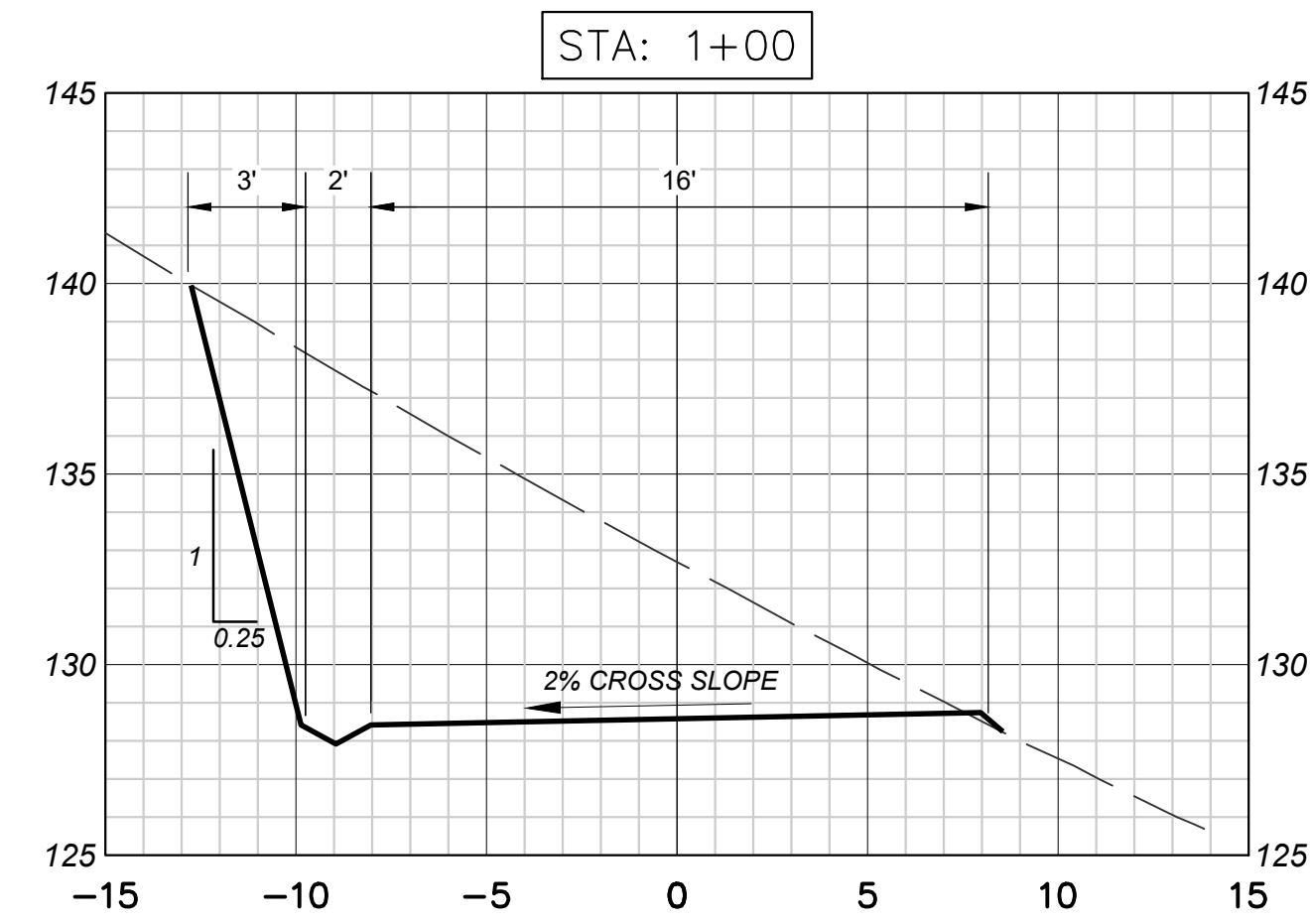
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 FOR AND ON BEHALF OF MERRICK & COMPANY

TITLE:  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**MAINTENANCE & USER ACCESS TRAIL**

JOB NUMBER: 65420956  
 DATE: NOVEMBER 2024  
 DRAWING NO.: **C15**  
 SHEET NO. 15 of 33

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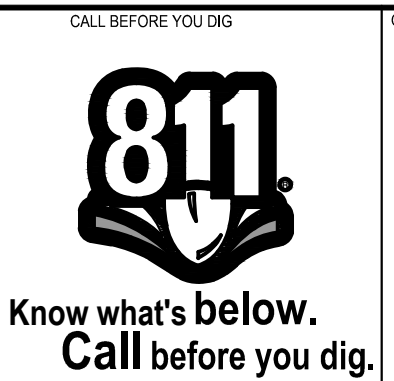
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- LEGEND**
- EXISTING CONTOUR MAJOR
  - EXISTING CONTOUR MINOR
  - PROPOSED CONTOUR MAJOR
  - PROPOSED CONTOUR MINOR
  - PROPOSED ASPHALT (PLAN)
  - PROPOSED CONCRETE (PLAN)
  - MULTI-LAYER GROUTED BOULDERS (PLAN)
  - SCULPTED CONCRETE (PLAN)
  - GROUTED CORE ROCK
  - CONCRETE FACE
  - SCULPTED CONCRETE (SECTION)
  - CONCRETE (SECTION)
  - EXISTING BEDROCK (SECTION)

NOTE: TYPICAL ALL SECTIONS THIS SHEET HORIZONTAL AND VERTICAL SCALE 1"=5'

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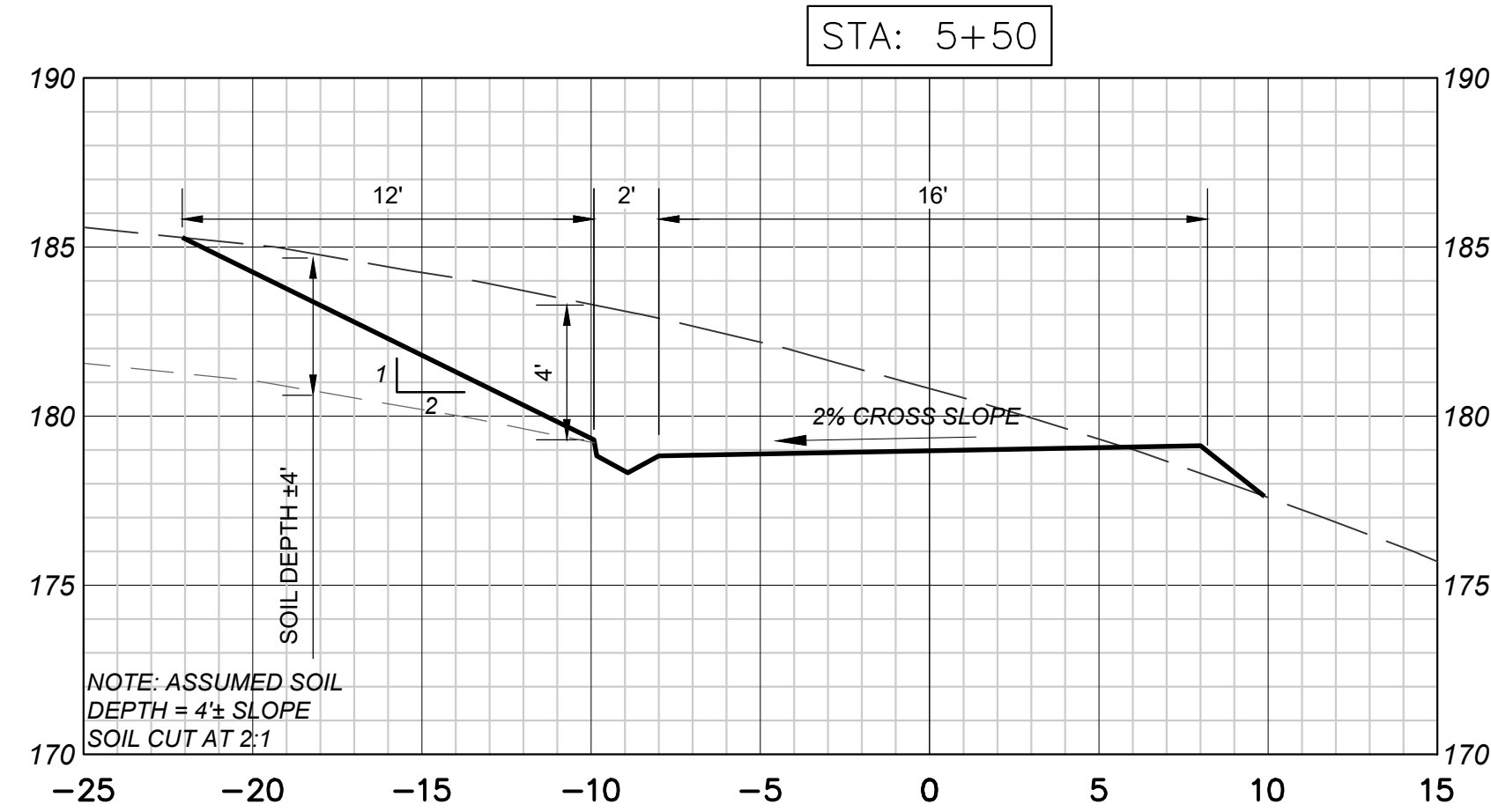
TITLE  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**MAINTENANCE & USER ACCESS TRAIL**  
**SECTIONS**

JOB NUMBER 65420956  
 DATE NOVEMBER 2024  
 DRAWING NO. **C16**  
 SHEET NO. 16 of 33

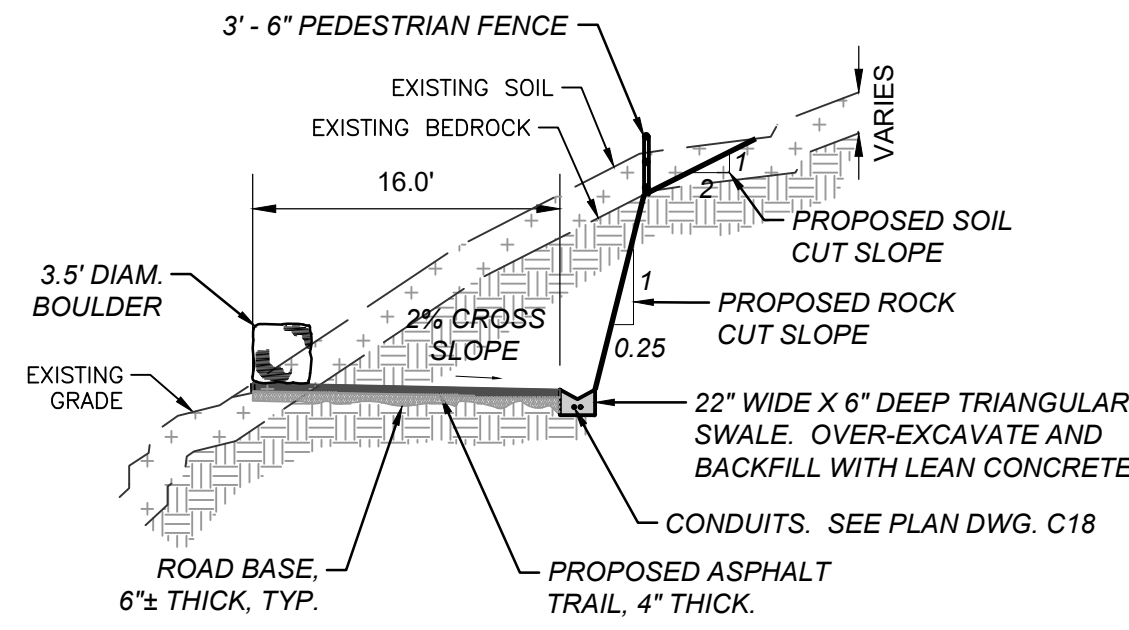


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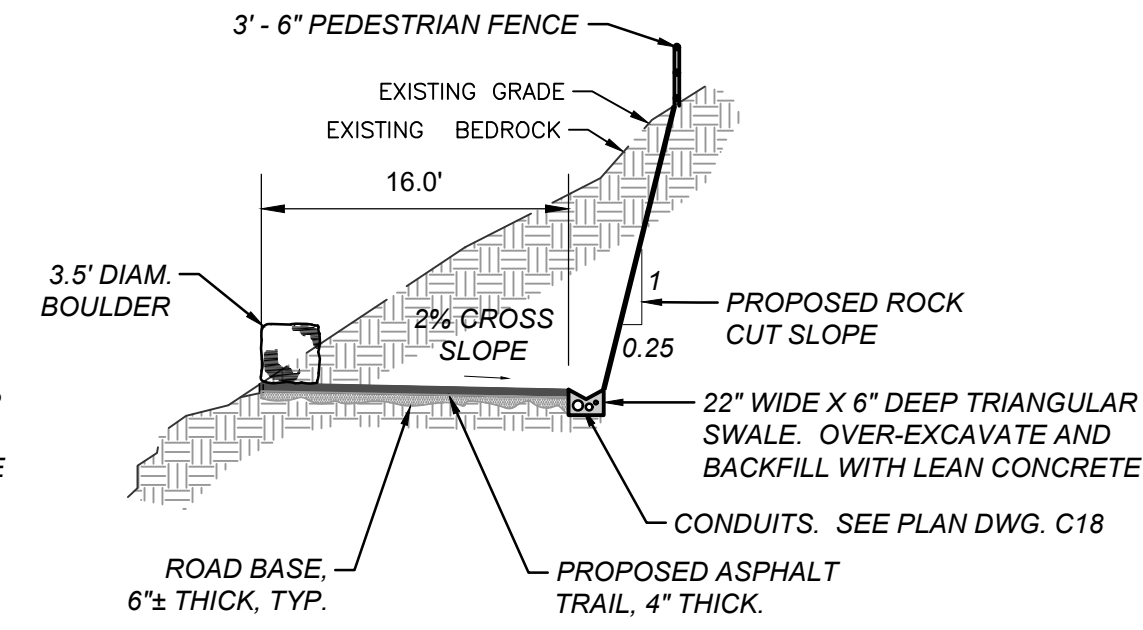


**SECTION**  
 HOR. SCALE: 1" = 5'  
 VER. SCALE: 1" = 5'



UPPER MAINTENANCE & USER ACCESS TRAIL

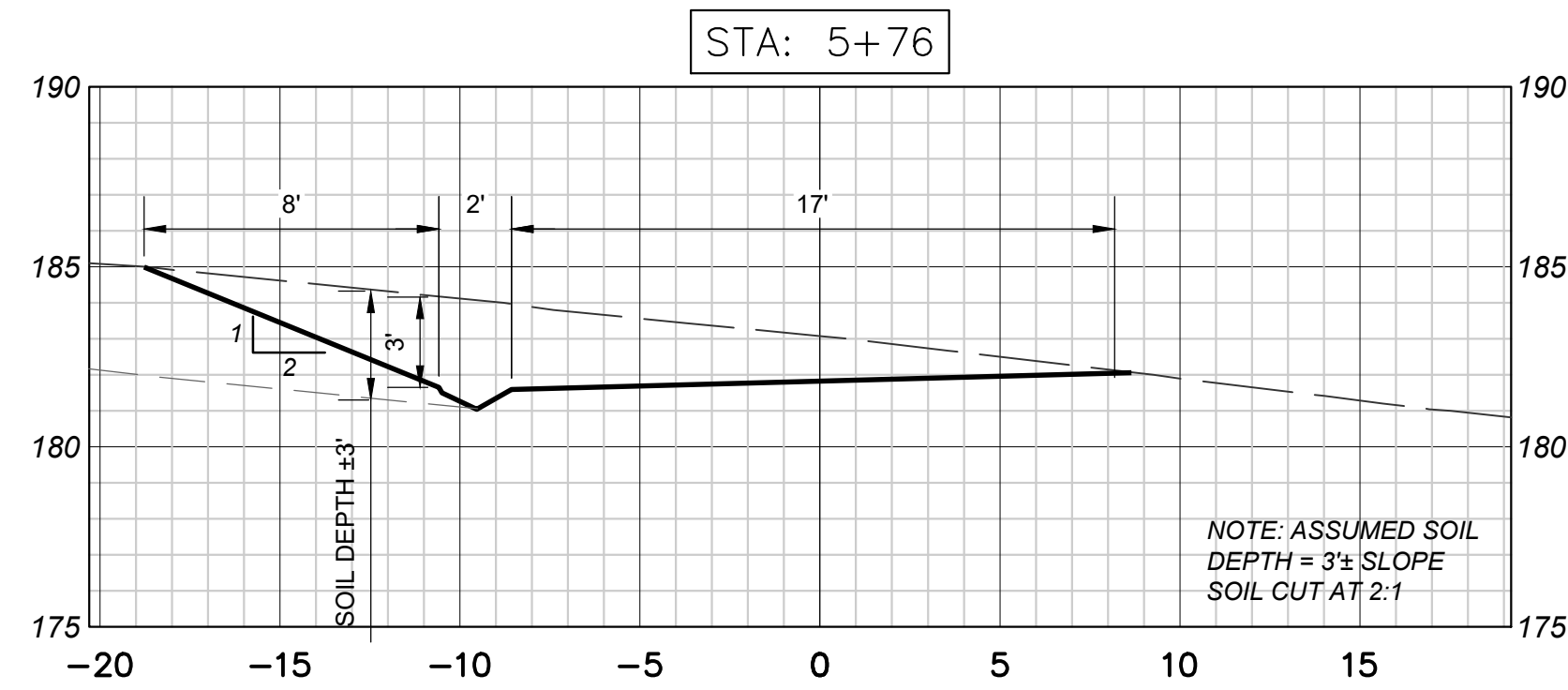
**SECTION A**  
 HOR. SCALE: 1" = 10'  
 VER. SCALE: 1" = 10'  
 C15



LOWER MAINTENANCE & USER ACCESS TRAIL

**SECTION B**  
 HOR. SCALE: 1" = 10'  
 VER. SCALE: 1" = 10'  
 C15

LEGEND	
	EXISTING CONTOUR MAJOR
	EXISTING CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED ASPHALT (PLAN)
	PROPOSED CONCRETE (PLAN)
	MULTI-LAYER GROUTED BOULDERS (PLAN)
	SCULPTED CONCRETE (PLAN)
	GROUTED CORE ROCK
	CONCRETE FACE
	SCULPTED CONCRETE (SECTION)
	CONCRETE (SECTION)
	EXISTING BEDROCK (SECTION)



**SECTION**  
 HOR. SCALE: 1" = 5'  
 VER. SCALE: 1" = 5'

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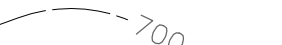

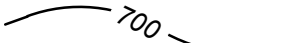
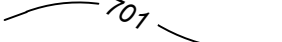

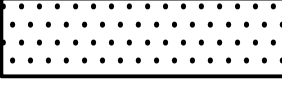

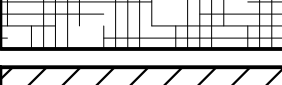





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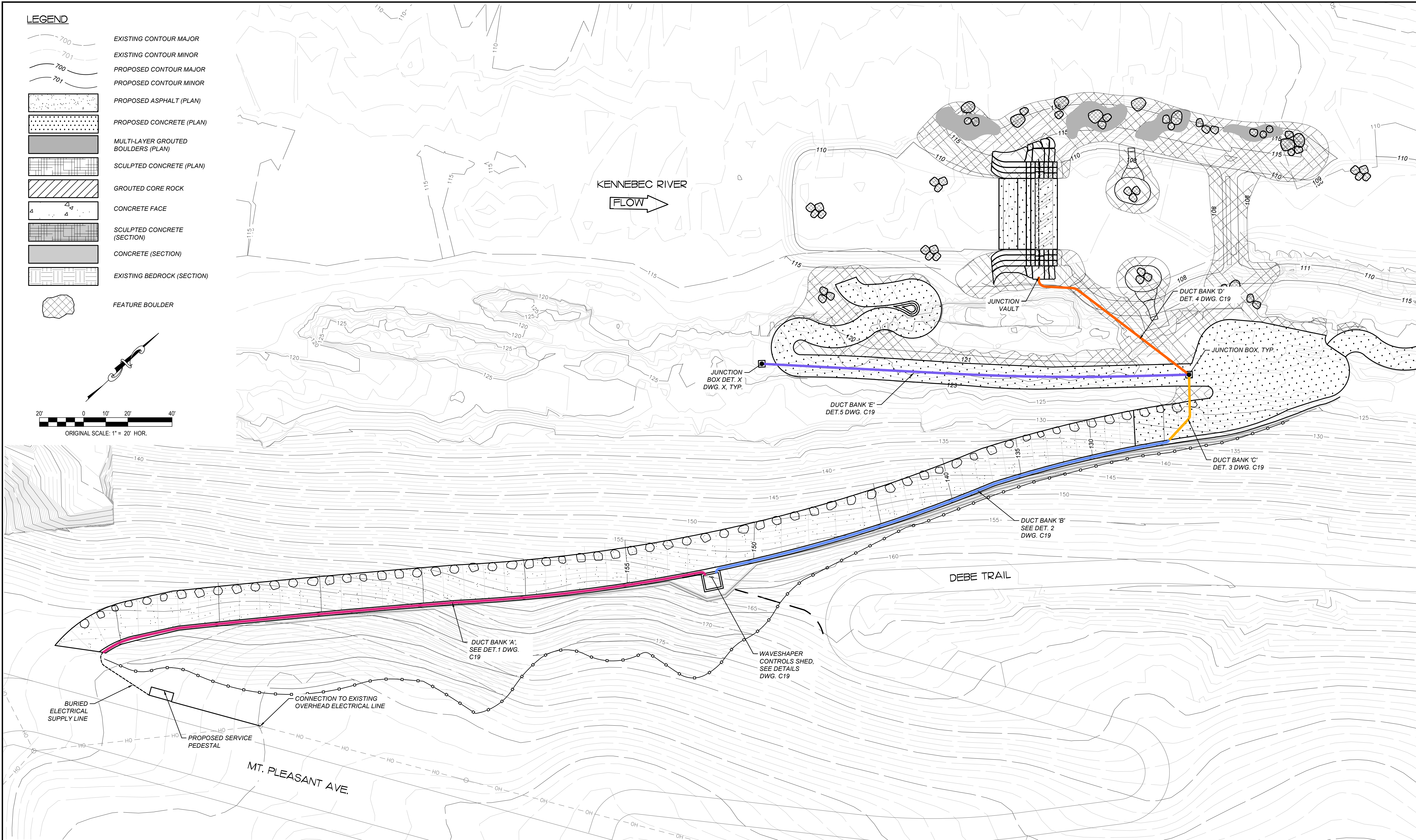
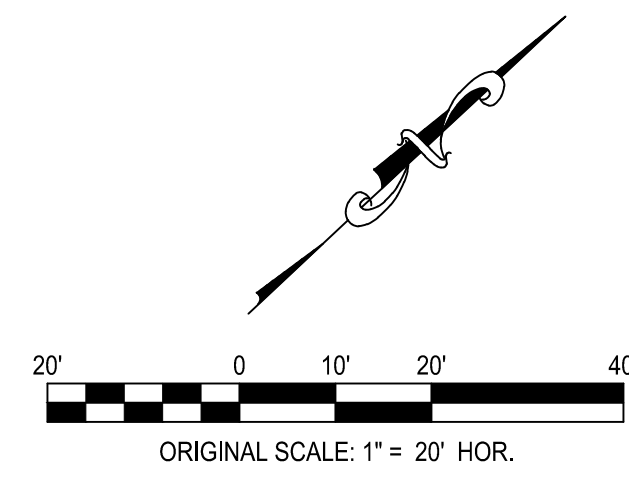
TITLE  
**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**MAINTENANCE & USER ACCESS TRAIL**  
**SECTIONS**

JOB NUMBER	65420956
DATE	NOVEMBER 2024
DRAWING NO.	<b>C17</b>
SHEET NO.	17 of 33

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- LEGEND**
-  EXISTING CONTOUR MAJOR
  -  EXISTING CONTOUR MINOR
  -  PROPOSED CONTOUR MAJOR
  -  PROPOSED CONTOUR MINOR
  -  PROPOSED ASPHALT (PLAN)
  -  PROPOSED CONCRETE (PLAN)
  -  MULTI-LAYER GROUTED BOULDERS (PLAN)
  -  SCULPTED CONCRETE (PLAN)
  -  GROUTED CORE ROCK
  -  CONCRETE FACE
  -  SCULPTED CONCRETE (SECTION)
  -  CONCRETE (SECTION)
  -  EXISTING BEDROCK (SECTION)



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TITLE

**SKOWHEGAN RIVER PARK**  
SKOWHEGAN, MAINE

**UTILITY DUCT BANK PLAN**

JOB NUMBER  
65420956

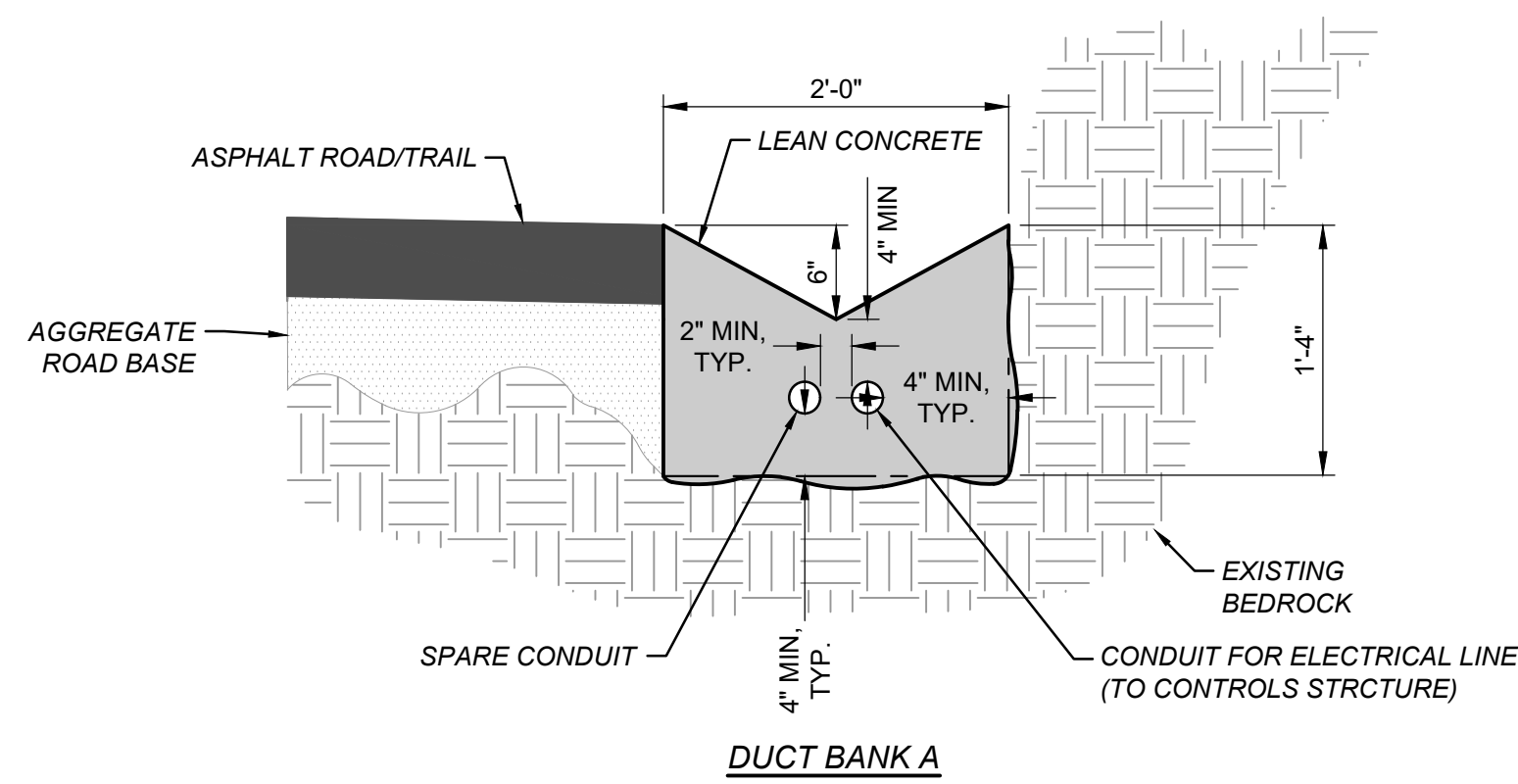
DATE  
NOVEMBER 2024

DRAWING NO.  
**C18**

SHEET NO.  
18 of 33

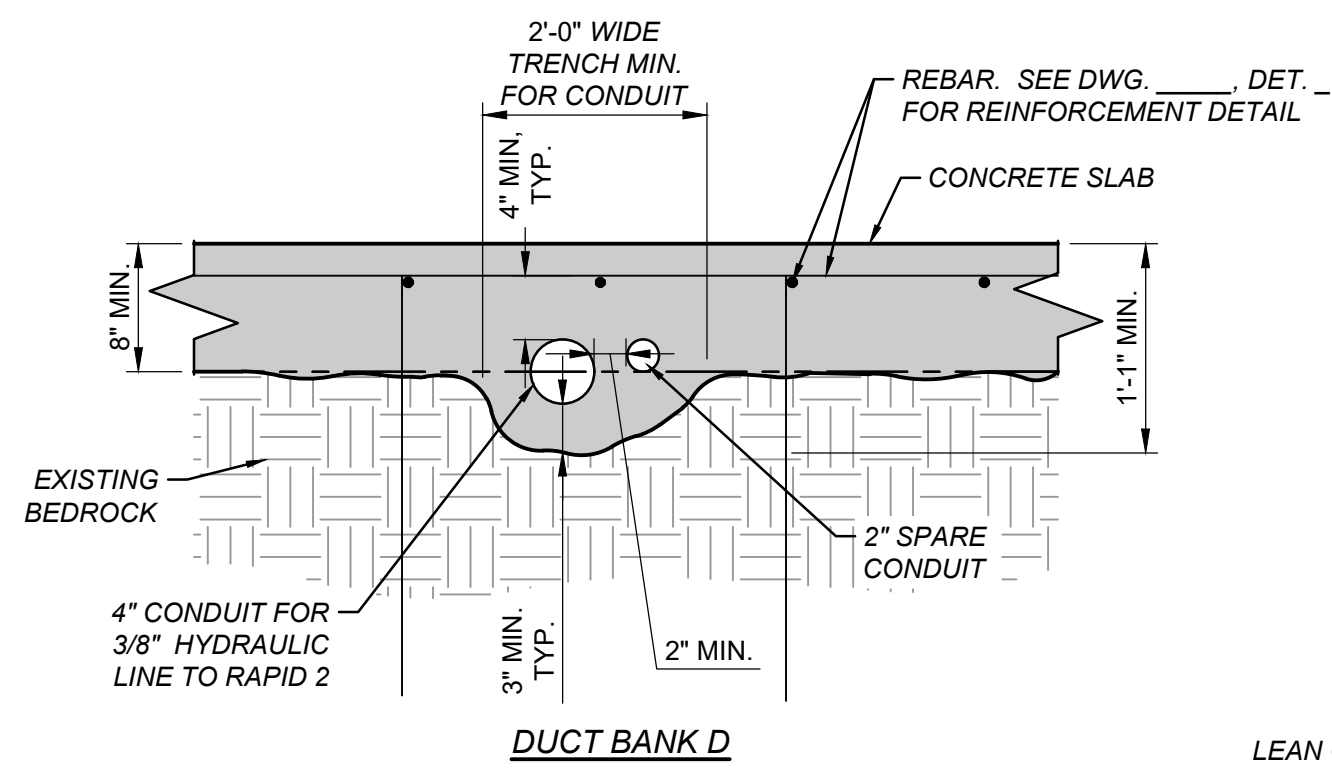
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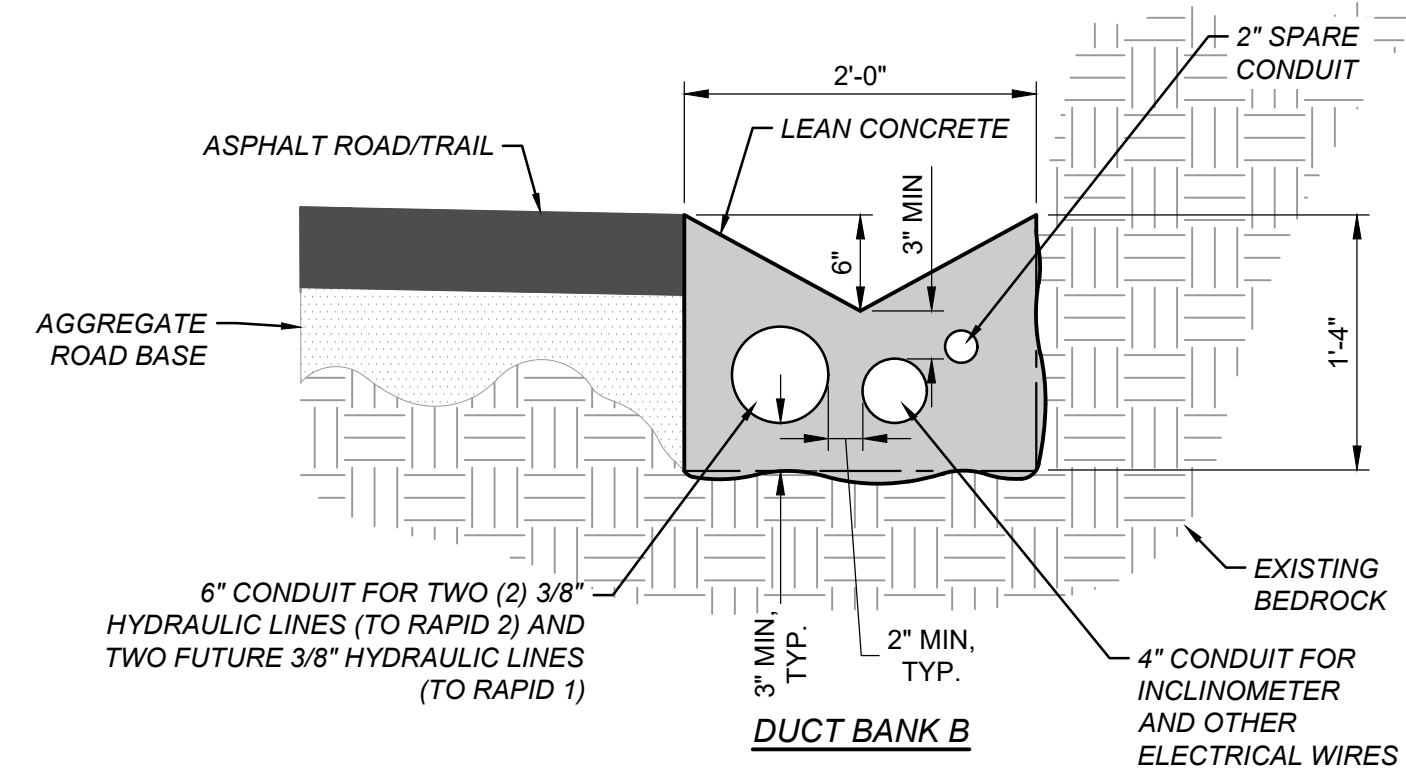
**DETAIL 1**  
 SCALE: 1" = 1'-0"  
 C18

NOTE: ALL CONDUIT TO BE SCHEDULE 40 PVC



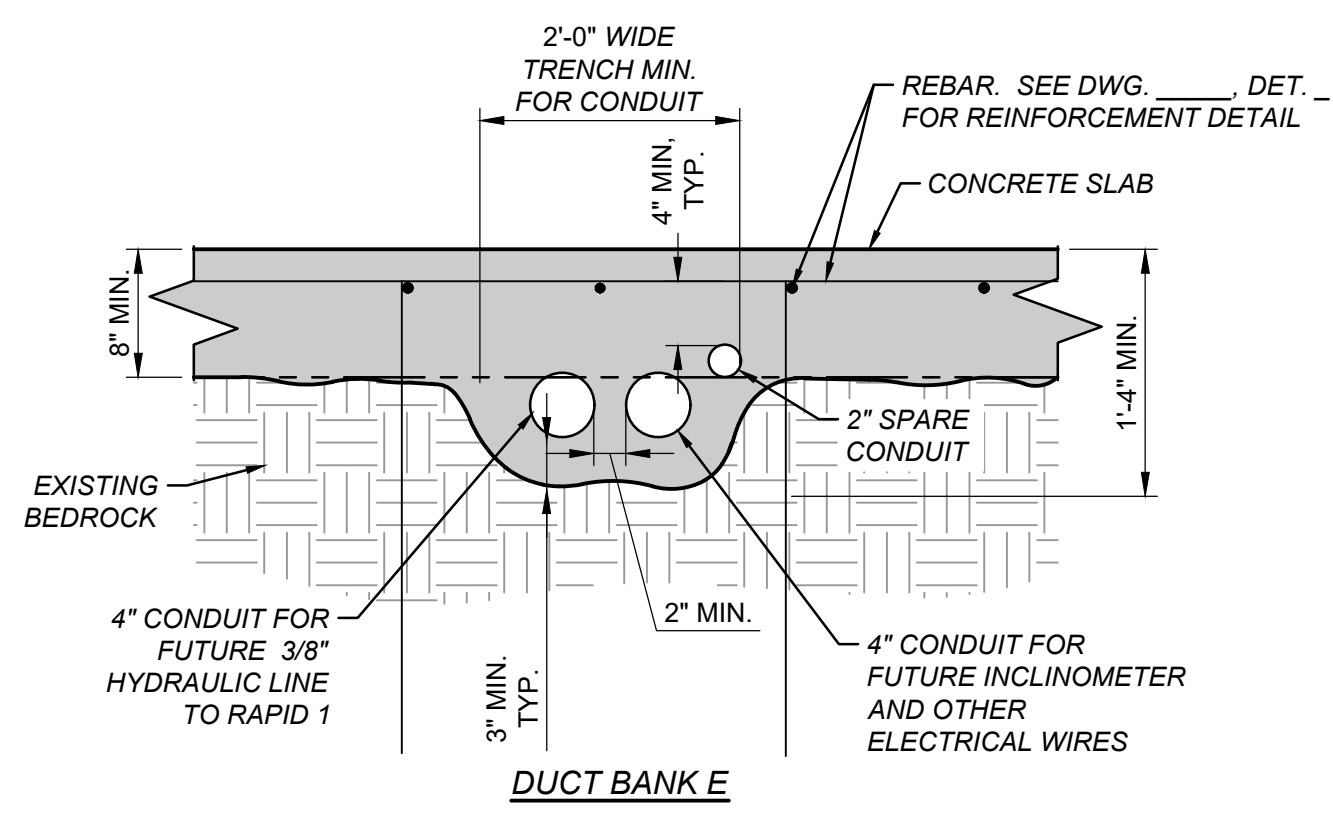
**DETAIL 4**  
 SCALE: 1" = 1'-0"  
 C18

NOTE: ALL CONDUIT TO BE SCHEDULE 40 PVC



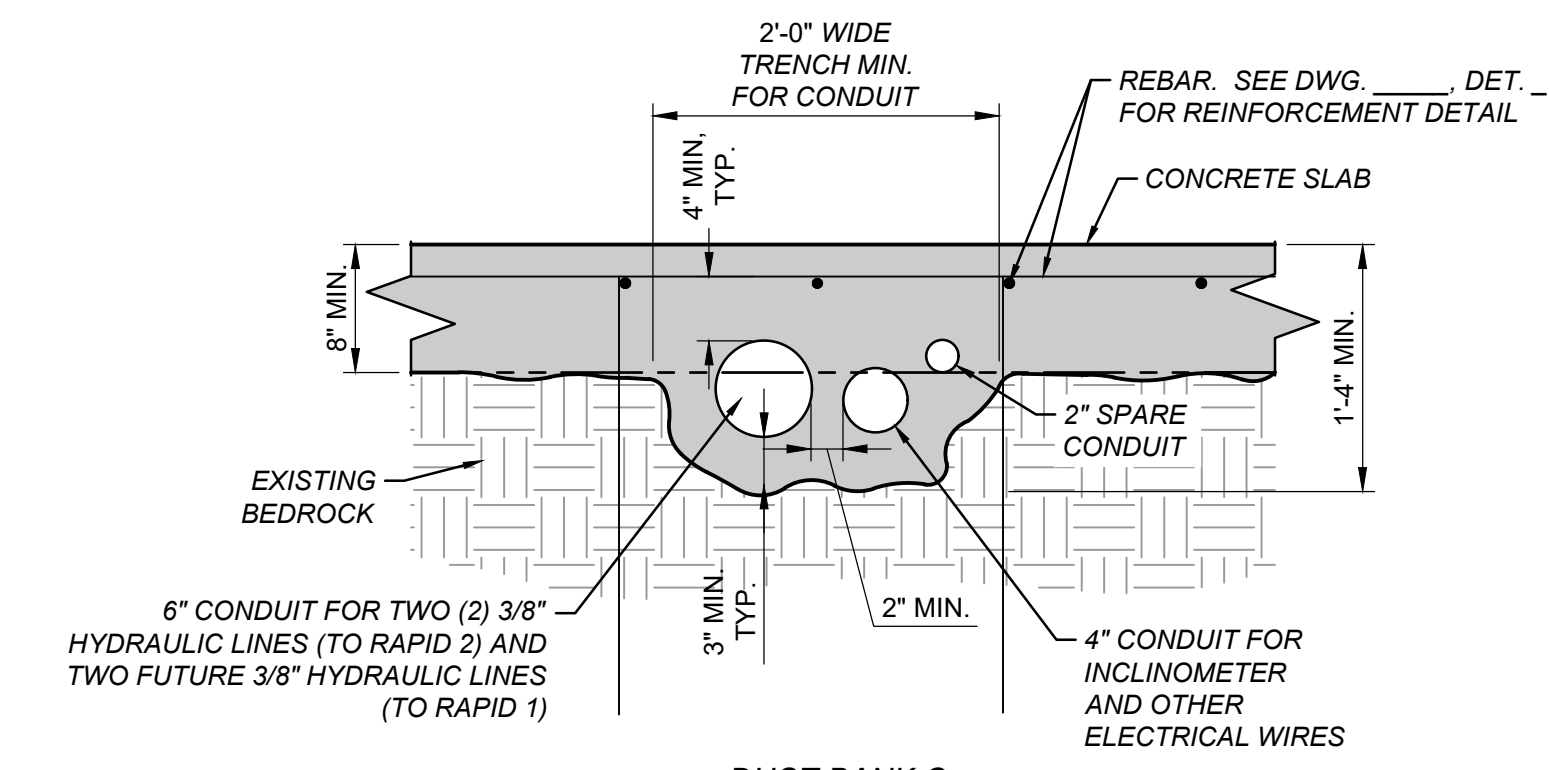
**DETAIL 2**  
 SCALE: 1" = 1'-0"  
 C18

NOTE: ALL CONDUIT TO BE SCHEDULE 40 PVC



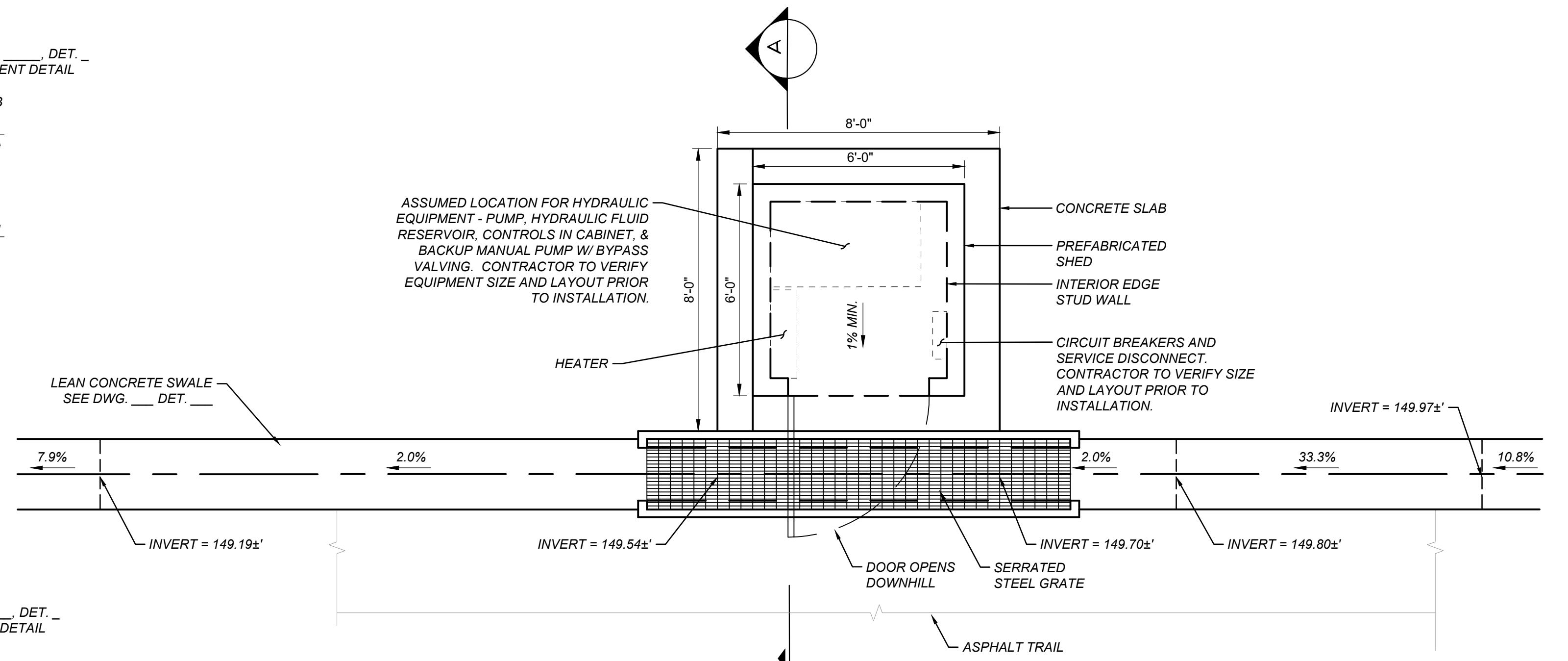
**DETAIL 5**  
 SCALE: 1" = 1'-0"  
 C18

NOTE: ALL CONDUIT TO BE SCHEDULE 40 PVC

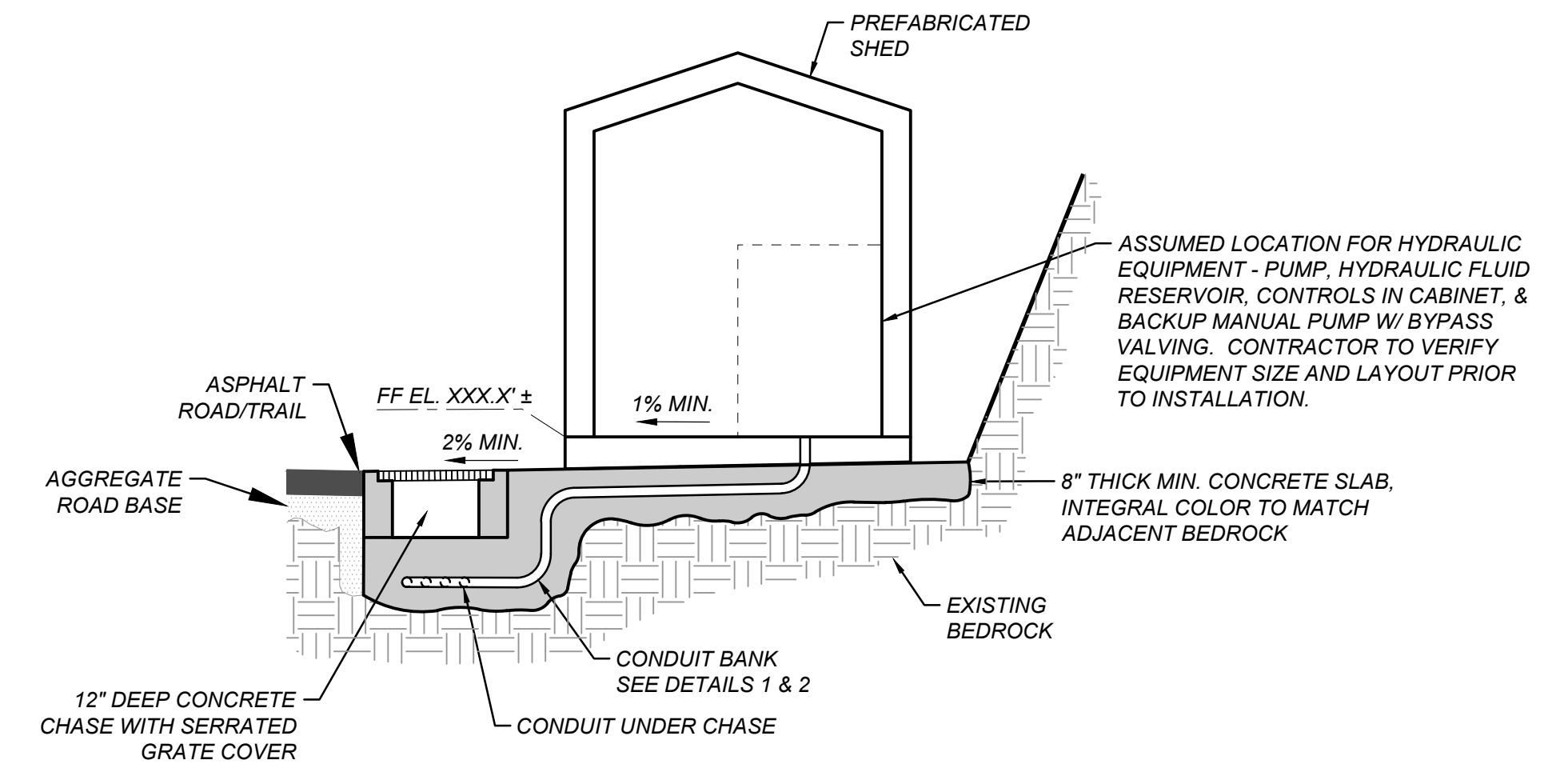


**DETAIL 3**  
 SCALE: 1" = 1'-0"  
 C18

NOTE: ALL CONDUIT TO BE SCHEDULE 40 PVC



**CONTROL SHED - PLAN**  
 DETAIL 1  
 N.T.S.



**CONTROL SHED - SECTION A**

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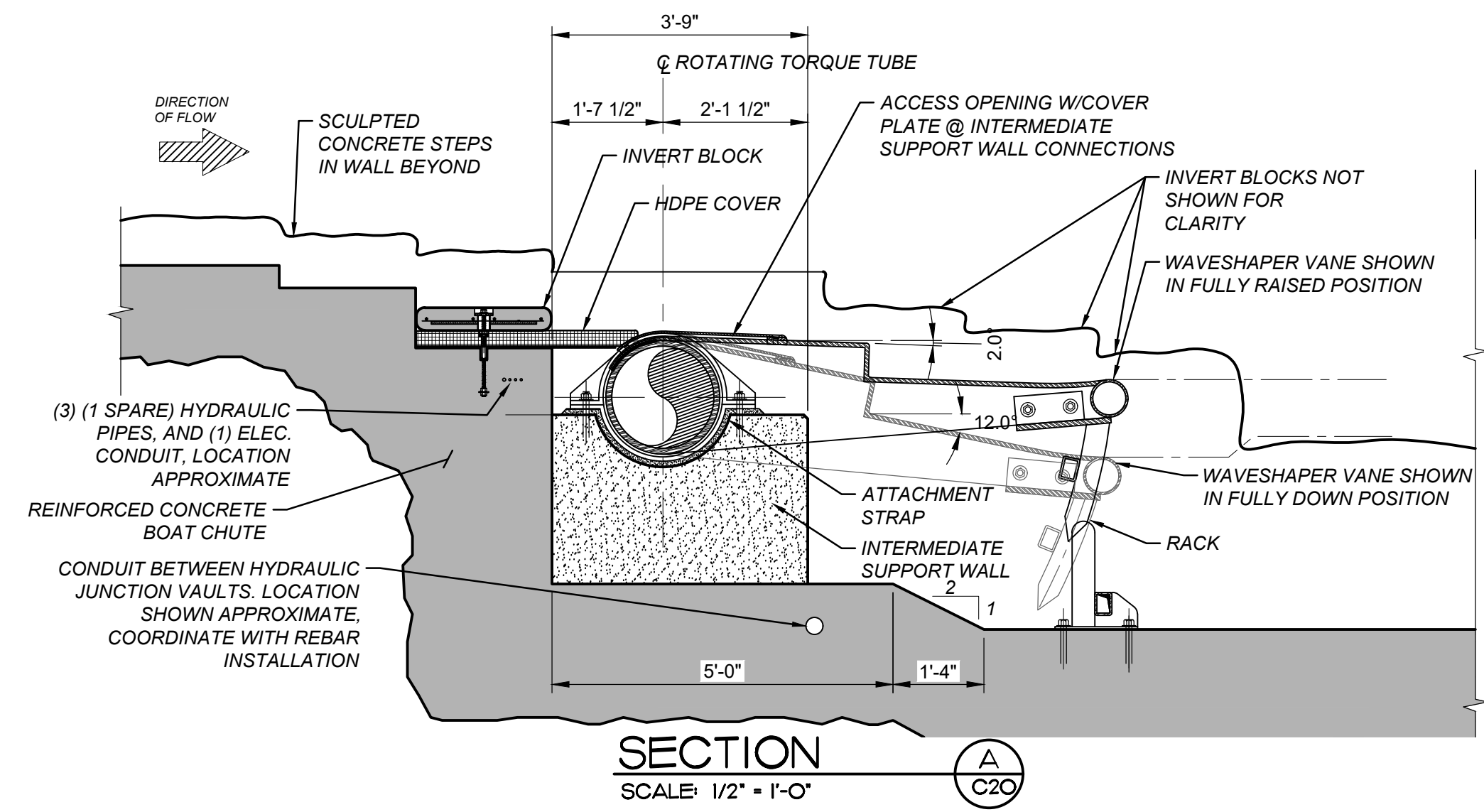
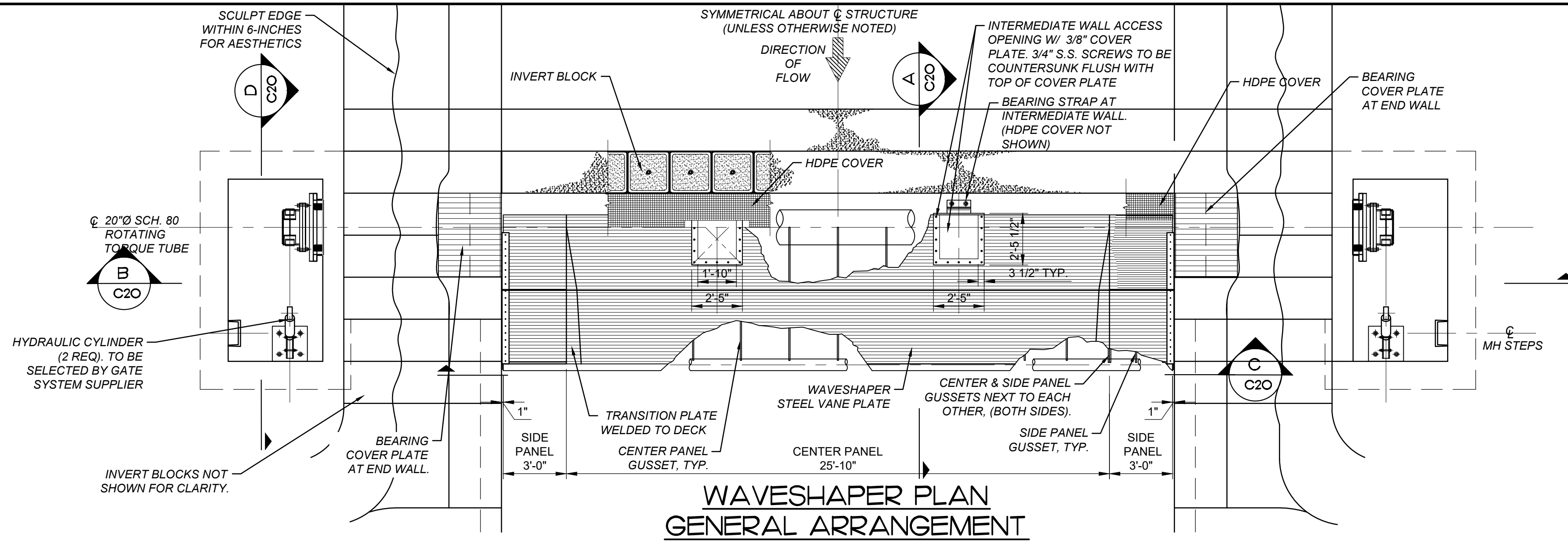
PE STAMP  
 TITLE

**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**DUCT BANK DETAILS**

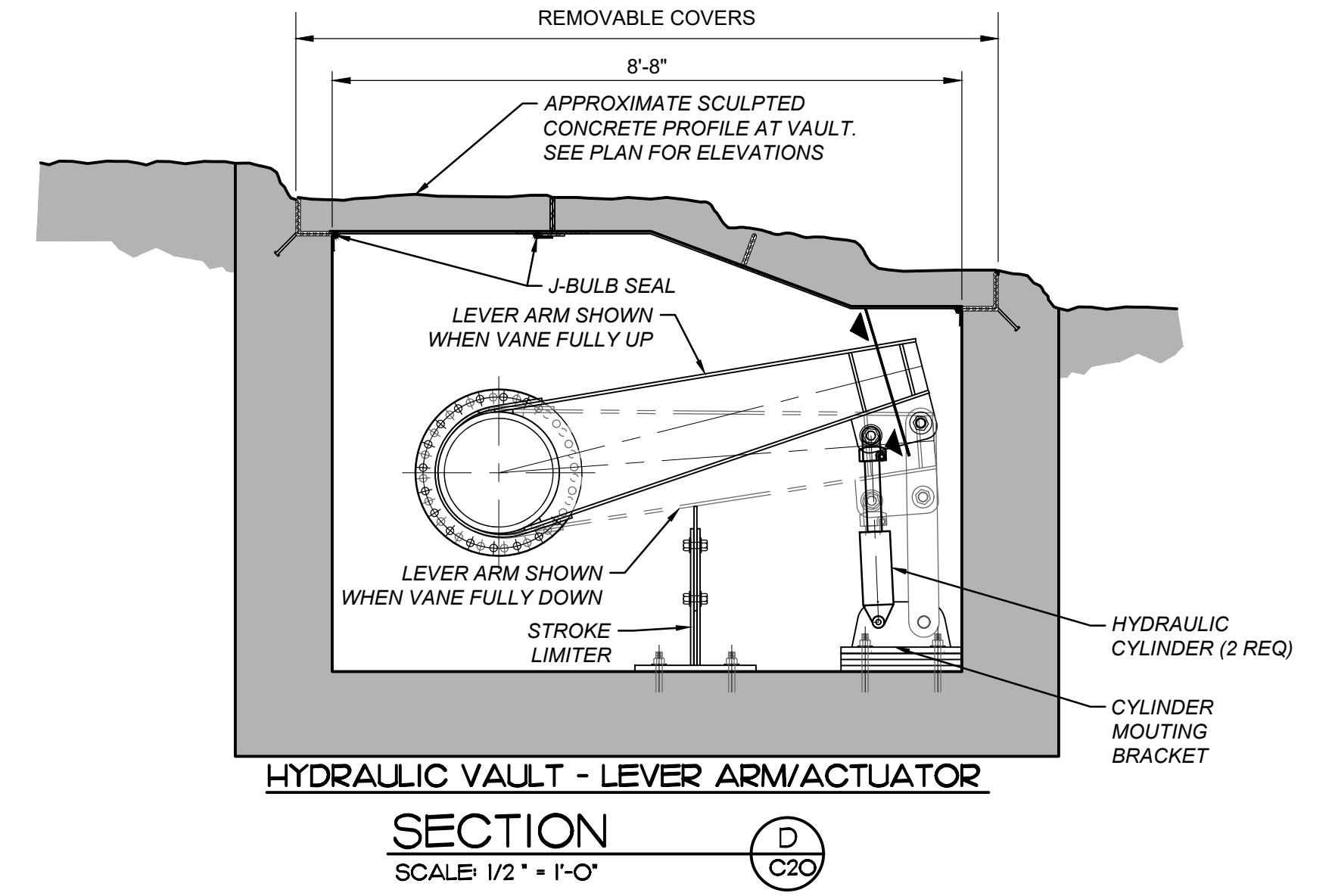
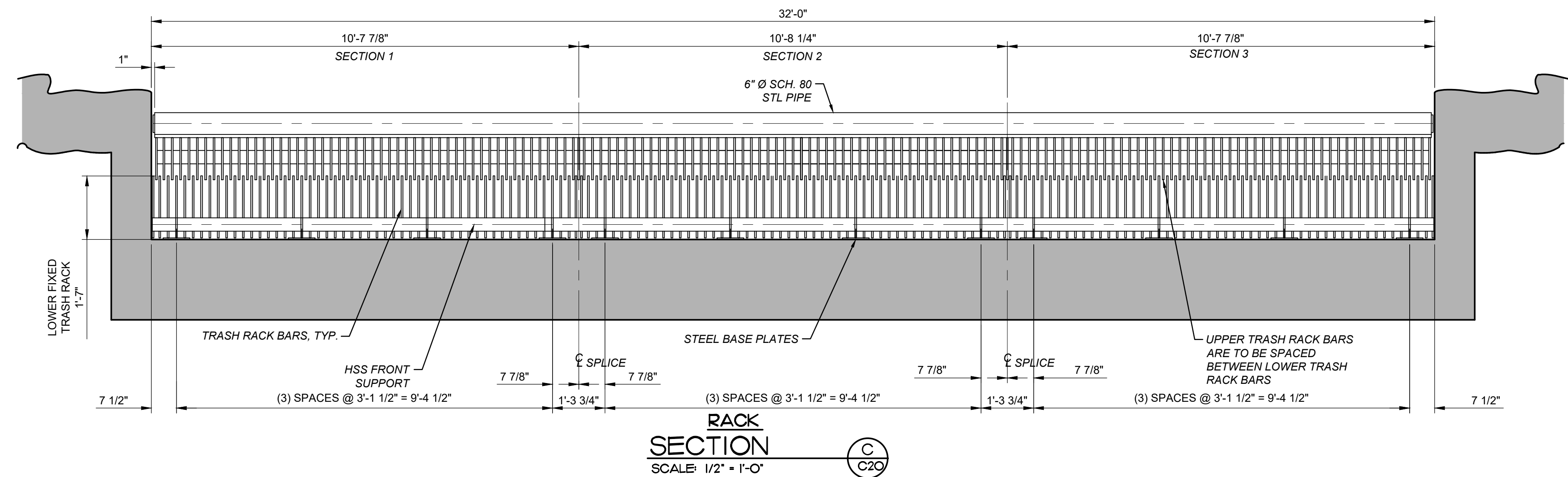
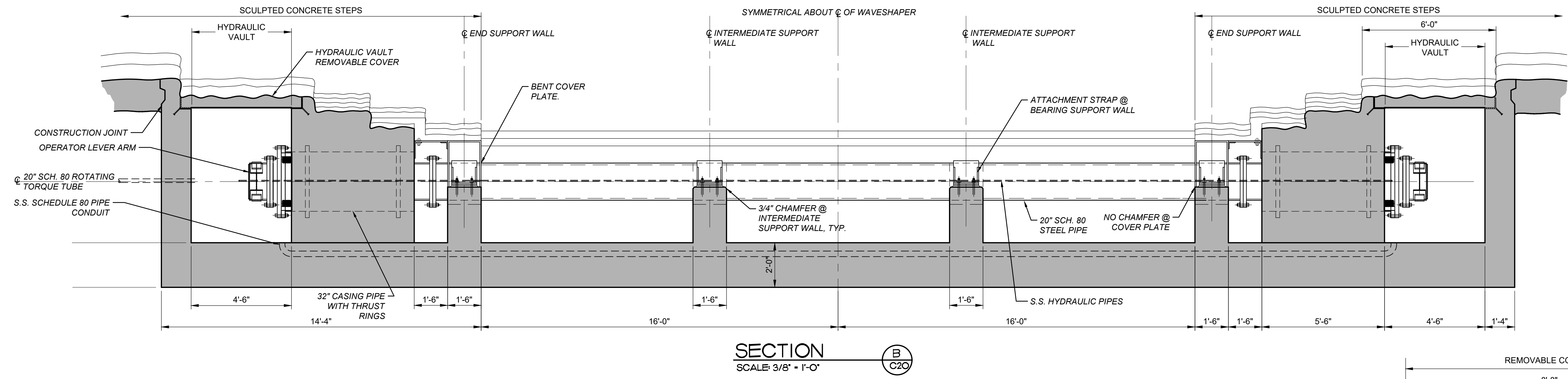
JOB NUMBER 65420956  
 DATE NOVEMBER 2024  
 DRAWING NO. C19  
 SHEET NO. 19 of 33

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- NOTES:**
- GRIND SMOOTH ALL EXPOSED EDGES.
  - ALL THREADED FASTENERS INCLUDING ANCHOR BOLTS AND ATTACHMENT HARDWARE SHALL BE 304 STAINLESS STEEL OR APPROVED EQUAL.
  - DIMENSIONS OF VANES AS SHOWN. FINAL DIMENSIONS AND TOLERANCES OF MEMBERS AND MATING PARTS TO BE DETERMINED BY GATE SYSTEM SUPPLIER. SEE SPECIFICATIONS.
  - SEE SPECIFICATIONS FOR COATINGS AND FINISHES INFORMATION.
  - GUSSETS AND SIDE PANELS WITH ANODES. SEE SPECIFICATIONS.
  - HYDRAULIC FLUID SHALL BE READILY AND TOTALLY BIODEGRADABLE, CANOLA (RAPESEED) BASED MEETING THE EPA 2013 VESSEL GENERAL PERMIT GUIDELINES FOR ENVIRONMENTALLY ACCEPTABLE LUBRICANTS (EALS) AND THE ACUTE TOXICITY (LC-50 EC-50 > 1000 PPM) CRITERIA ADOPTED BY US FISH AND WILDLIFE HABITAT SERVICE AND US EPA



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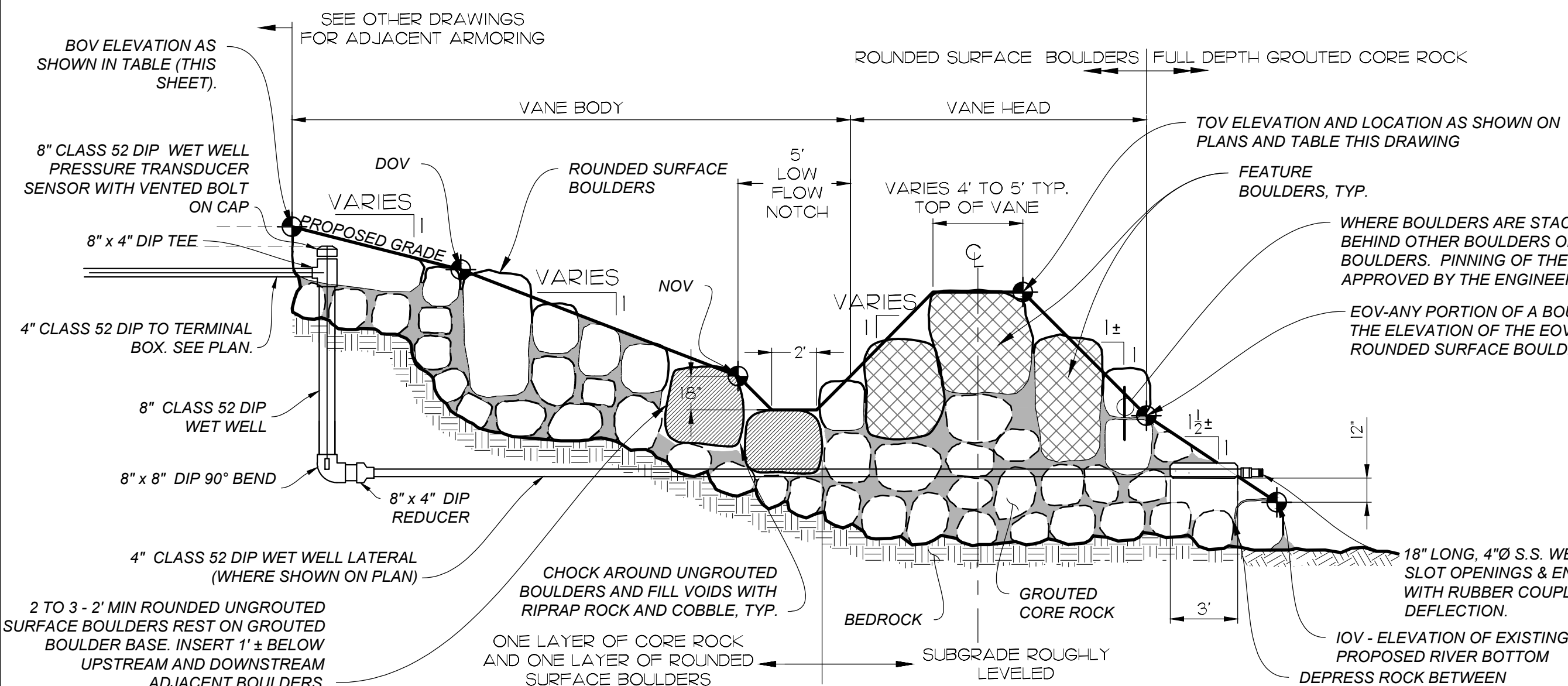
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**SKOWHEGAN RIVER PARK**  
 SKOWHEGAN, MAINE  
**RAPID 2 - WAVESHAPER PLAN, SECTIONS & DETAILS**

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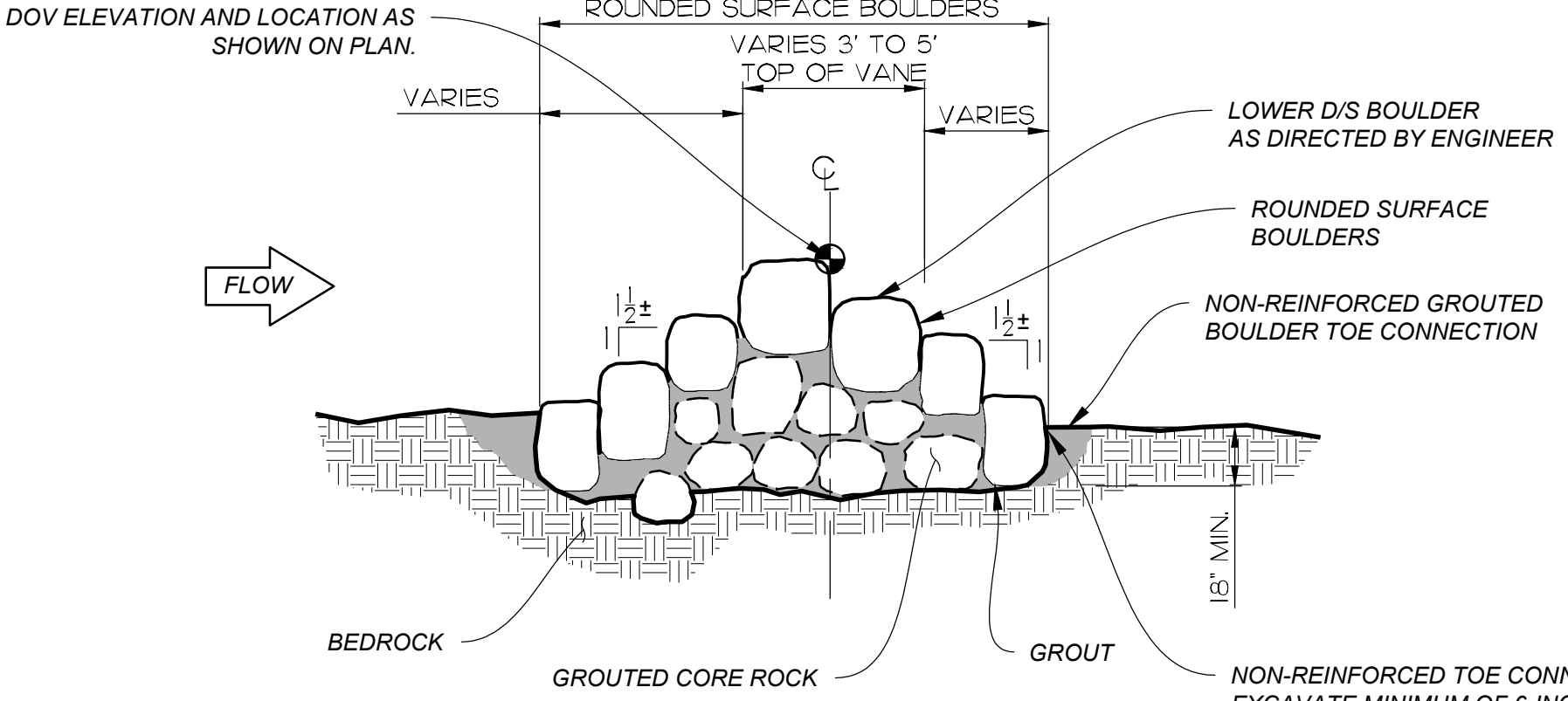
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VANE PERPENDICULAR TO FLOW

**SECTION A**

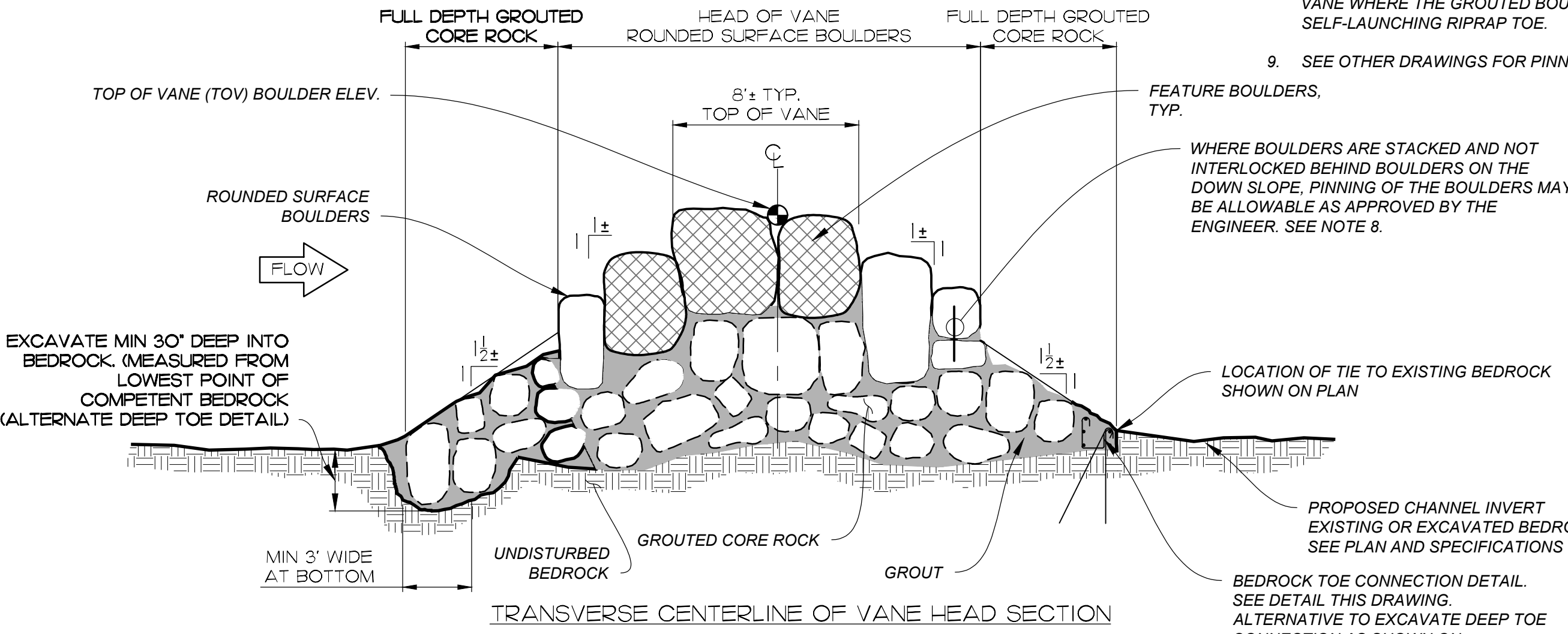
SCALE: 1" = 5'



VANE AT RIVER BANK

**SECTION B**

SCALE: 1" = 5'



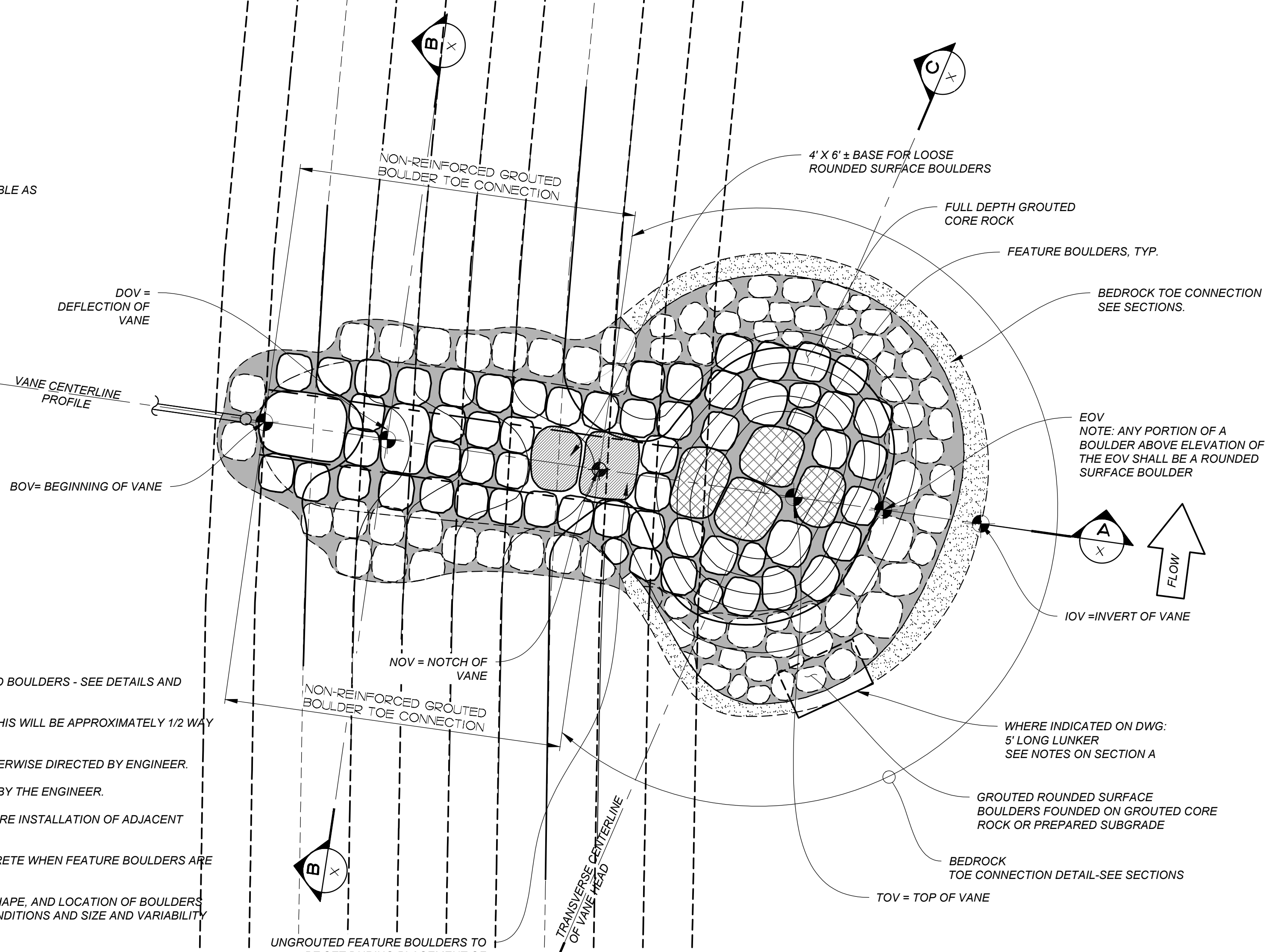
**SECTION C**

SCALE: 1" = 5'

NOTE: SEE GROUTED BOULDER PLACEMENT WITH RECESSED GROUT AND STEPPED DETAIL FOR ALL SURFACE BOULDERS. DETAIL ON OTHER DRAWING.

NOTES:

1. GROUT VANES MONOLITHICALLY AS MULTI-LAYERED GROUTED BOULDERS - SEE DETAILS AND SPECIFICATIONS.
2. GROUT TO DEPTH AS DIRECTED BY ENGINEER. IN GENERAL THIS WILL BE APPROXIMATELY 1/2 WAY UP THE SIDE OF SURFACE BOULDERS.
3. THREE TO FIVE FEATURE BOULDERS PER VANE - UNLESS OTHERWISE DIRECTED BY ENGINEER.
4. PLACE ALL FEATURE AND SURFACE BOULDERS AS DIRECTED BY THE ENGINEER.
5. GROUTED BOULDERS AND CORE ROCK TO BE GROUTED BEFORE INSTALLATION OF ADJACENT RIPRAP.
6. VANE HEAD CAN BE CONSTRUCTED OUT OF SCULPTED CONCRETE WHEN FEATURE BOULDERS ARE UNAVAILABLE AS DIRECTED BY THE ENGINEER.
7. BOULDER ARRANGEMENT SHOWN IS SCHEMATIC. NUMBER, SHAPE, AND LOCATION OF BOULDERS ARE APPROXIMATE AND VARY PER VANE BASED ON FIELD CONDITIONS AND SIZE AND VARIABILITY OF AVAILABLE BOULDERS.
8. GROUTED BOULDER INTERLOCKING. EXCEPT WHERE NOTED OTHERWISE, ALL GROUTED BOULDERS SHALL BE SUPPORTED ON ALL SIDES BY ADJACENT GROUTED BOULDERS BY A MINIMUM OF 1/2 THEIR HEIGHT. LARGER BOULDERS MAY BE NEEDED IN STEEPER AREAS TO ACHIEVE THIS REQUIRED INTERLOCKING. PINNING OF BOULDERS MAY BE AN ACCEPTABLE ALTERNATIVE TO LARGER BOULDERS IF APPROVED BY THE ENGINEER. GROUTED BOULDERS AT THE TOE OF THE VANE WHERE THE GROUTED BOULDERS END SHALL BE SUPPORTED THEIR ENTIRE HEIGHT BY THE SELF-LAUNCHING RIPRAP TOE.
9. SEE OTHER DRAWINGS FOR PINNED BOULDER AND TOE CONNECTION DETAILS.



**TYPICAL VANE PLAN**

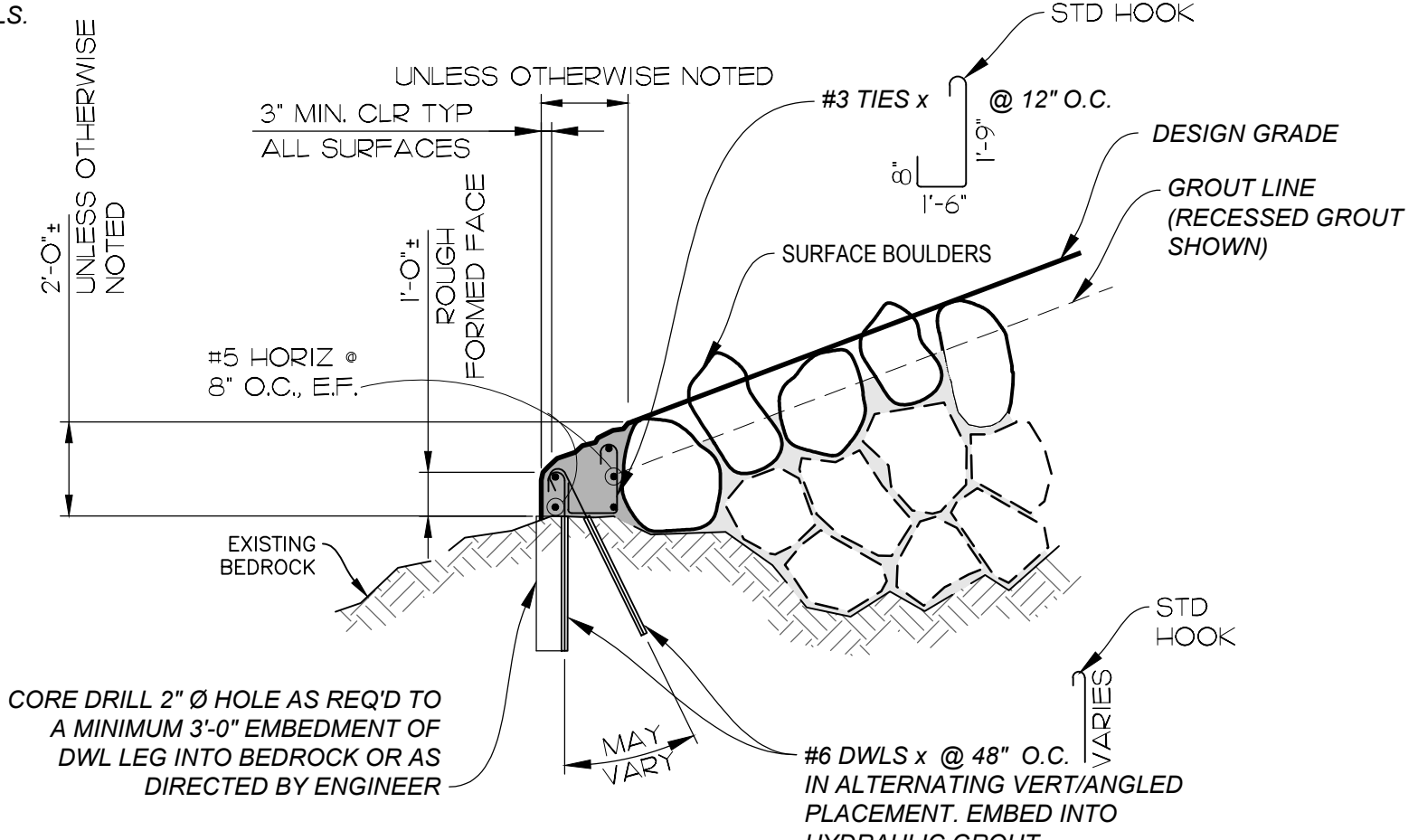
SCALE: 1" = 5'

VANE ELEVATION							
VANE NAME	BOV ELEV	DOV ELEV	NOV ELEV	TOV ELEV	EOV ELEV	IOV ELEV	LUNKERS/NOTES
EXAMPLE	21	20	16	20	14.5	10.5	

VANE LAYOUT NOTES: SEE LAYOUT DRAWING FOR ALIGNMENT AND LOCATION OF THE BOV, NOV, TOV, EOV AND IOV.

VANE ELEVATION TABLE - CHECK WITH LAYOUT DRAWING PRIOR TO CONSTRUCTION.

VANE SHOWN IS FOR A RIVER LEFT (FACING DOWNSTREAM) BANK. VANE FOR RIVER RIGHT BANK WOULD BE MIRROR OF THAT SHOWN.



**BEDROCK - ANCHORED TOE CONNECTION**

SCALE: 1" = 1'

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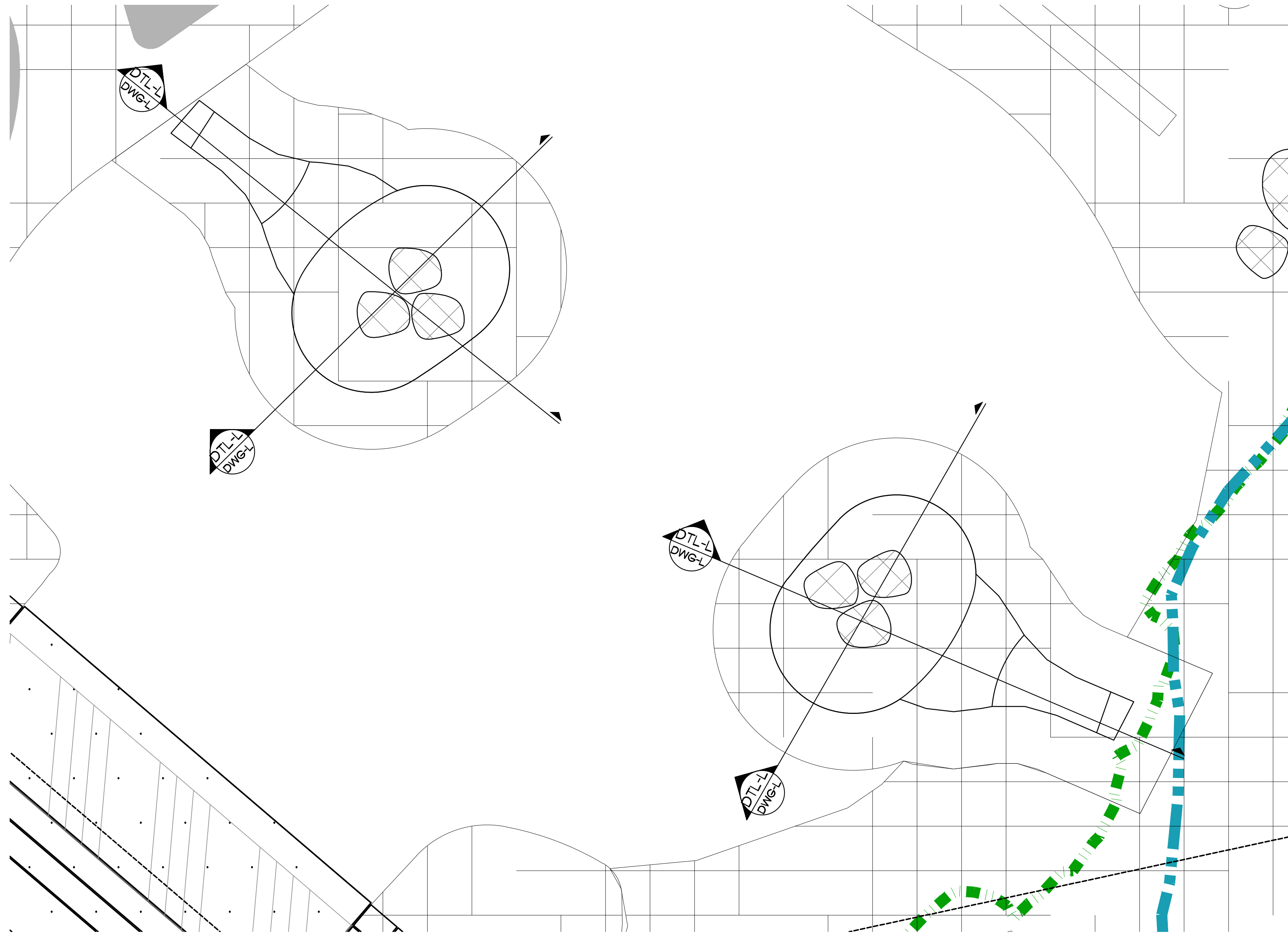
SKOWHEGAN RIVER PARK  
SKOWHEGAN, MAINE

VANE  
DETAIL

JOB NUMBER: 65420956  
DATE: NOVEMBER 2024  
DRAWING NO.: C21  
SHEET NO. 21 of 33

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SUBTITLES  
**SECTION** VIEW NUMBER  
 HOR. SCALE: 1" = XX' SHEET NUMBER  
 VER. SCALE: 1" = XX'

SUBTITLES  
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**SKOWHEGAN RIVER PARK**  
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**JETTY PLAN POOL 3**

JOB NUMBER 65420956  
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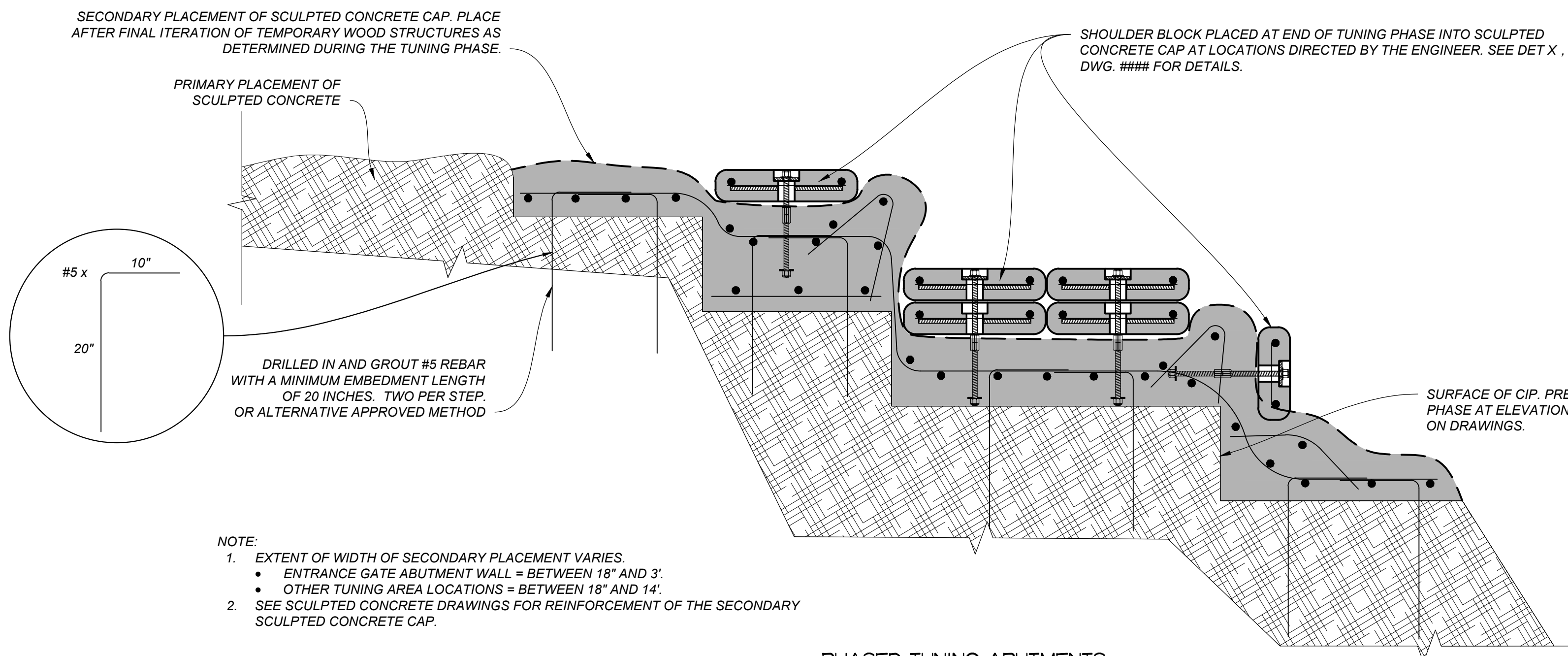
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INITIAL INVERT AND SHOULDER BLOCKS TO BE PROVIDED FOR TUNING		
	NUMBER PROVIDED	H
INVERT	X	4"
CYLINDRICAL INVERT	X	8"
SHOULDER	X	4"

POOL BLOCKS TO BE PROVIDED FOR TUNING	
LOCATION	NUMBER PROVIDED
DROP #	X
DROP #	X
DROP #	X

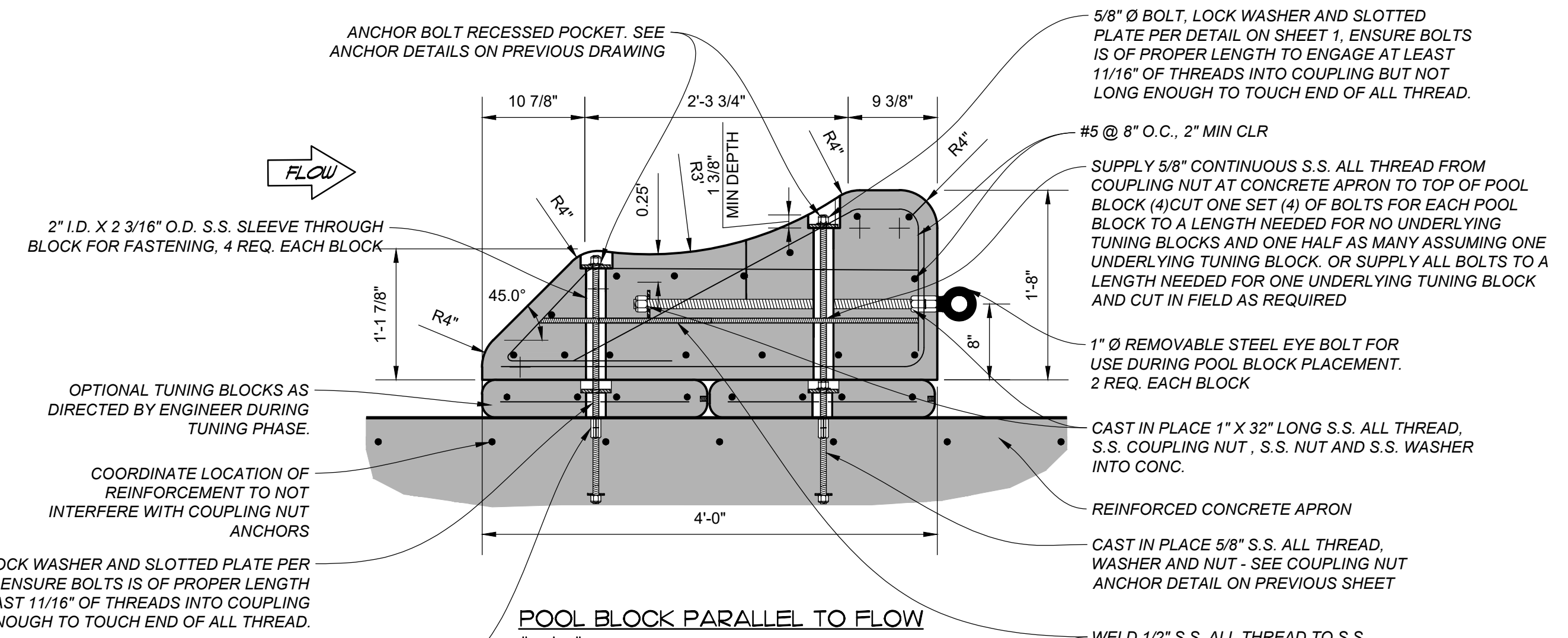
**TUNING BLOCK NOTES AND SCHEDULE**

5/8" Ø BOLT, LOCK WASHER AND SLOTTED

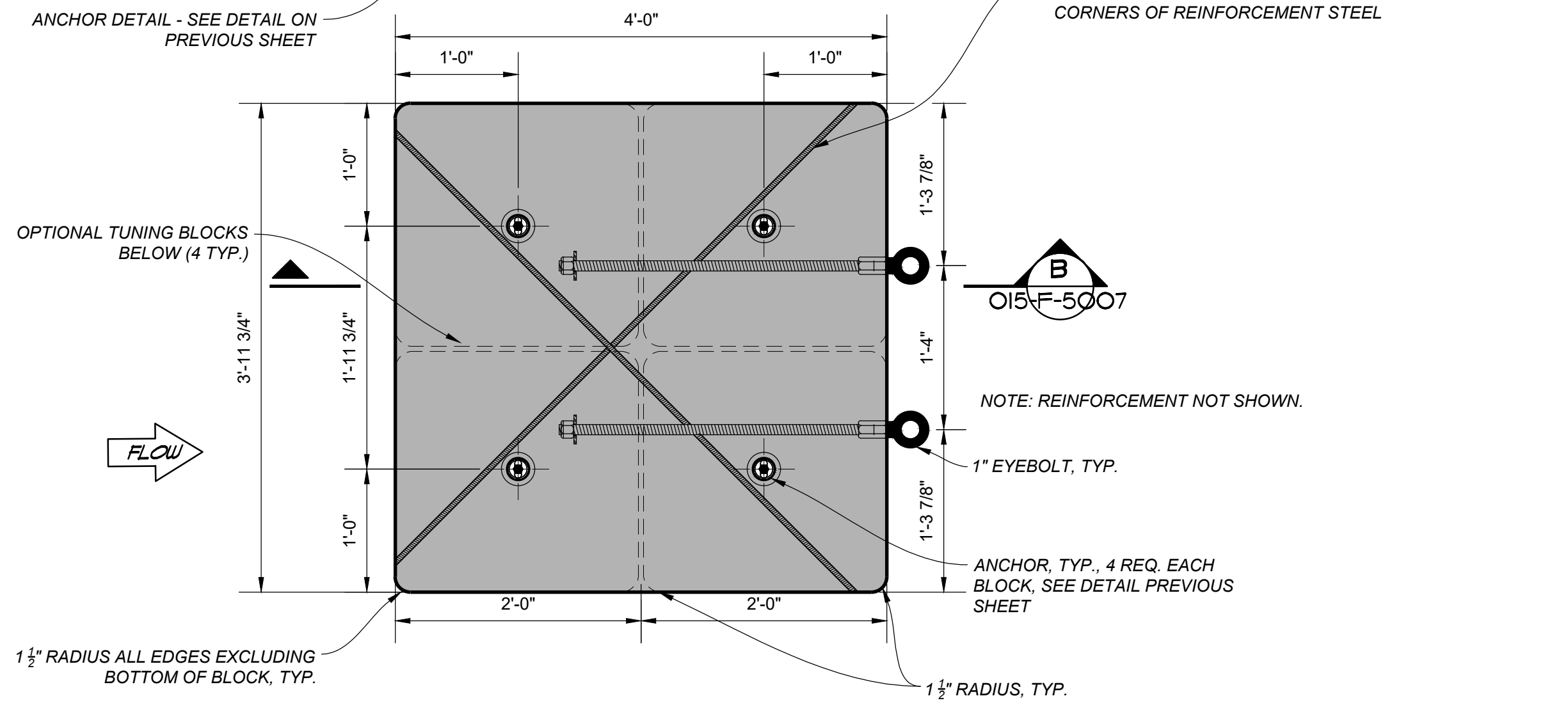


- NOTE:
- EXTENT OF WIDTH OF SECONDARY PLACEMENT VARIES.
    - ENTRANCE GATE ABUTMENT WALL = BETWEEN 18" AND 3'
    - OTHER TUNING AREA LOCATIONS = BETWEEN 18" AND 14'
  - SEE SCULPTED CONCRETE DRAWINGS FOR REINFORCEMENT OF THE SECONDARY SCULPTED CONCRETE CAP.

**PHASED TUNING ABUTMENTS**



5/8" Ø BOLT, LOCK WASHER AND SLOTTED PLATE PER DETAIL ON SHEET 1, ENSURE BOLTS IS OF PROPER LENGTH TO ENGAGE AT LEAST 1 1/16" OF THREADS INTO COUPLING BUT NOT LONG ENOUGH TO TOUCH END OF ALL THREAD.



- POOL BLOCK NOTES:**
- ALL ATTACHMENT HARDWARE SHALL HAVE NO SHARP EDGES AND BE RECESSED BELOW TOP OF BLOCK A MINIMUM 1/4".
  - IF ALL THREAD IS USED FOR BLOCK CONNECTION, ROD SHALL BE CUT FLUSH WITH TOP OF NUT AND ALL BURS/SHARP EDGES REMOVED FOR A SMOOTH FINISH.
  - RECESSED BOLT POCKETS SHALL BE FILLED WITH GROUT AND STRUCK FLUSH WITH TOP OF BLOCK ONCE FINAL BLOCK CONFIGURATION IS ESTABLISHED BY ENGINEER.
  - INCLUDE FIBERMESH IN TUNING BLOCK AND POOL BLOCK CONCRETE.



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SKOWHEGAN RIVER PARK  
SKOWHEGAN, MAINE

TUNING 2  
DETAILS 2

JOB NUMBER 65420956

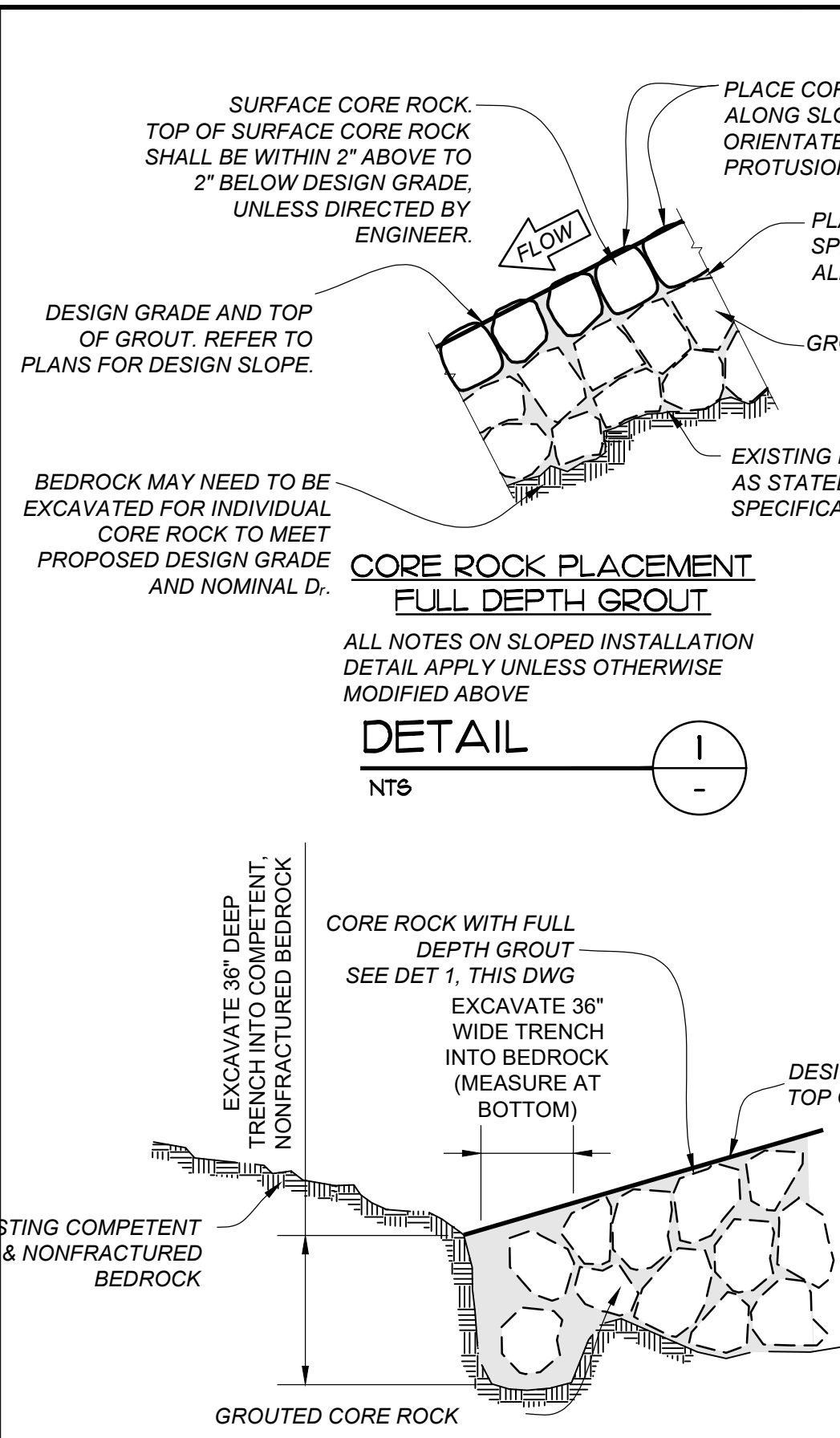
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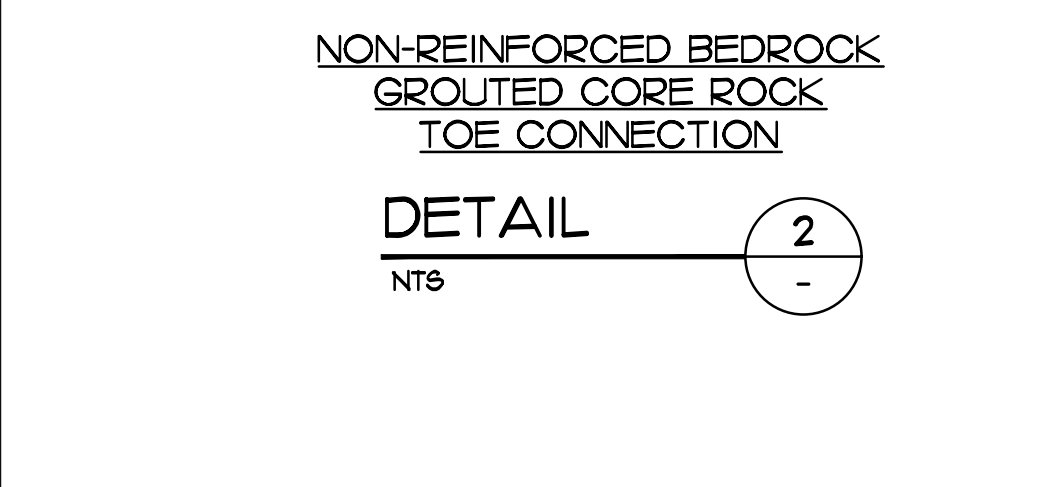
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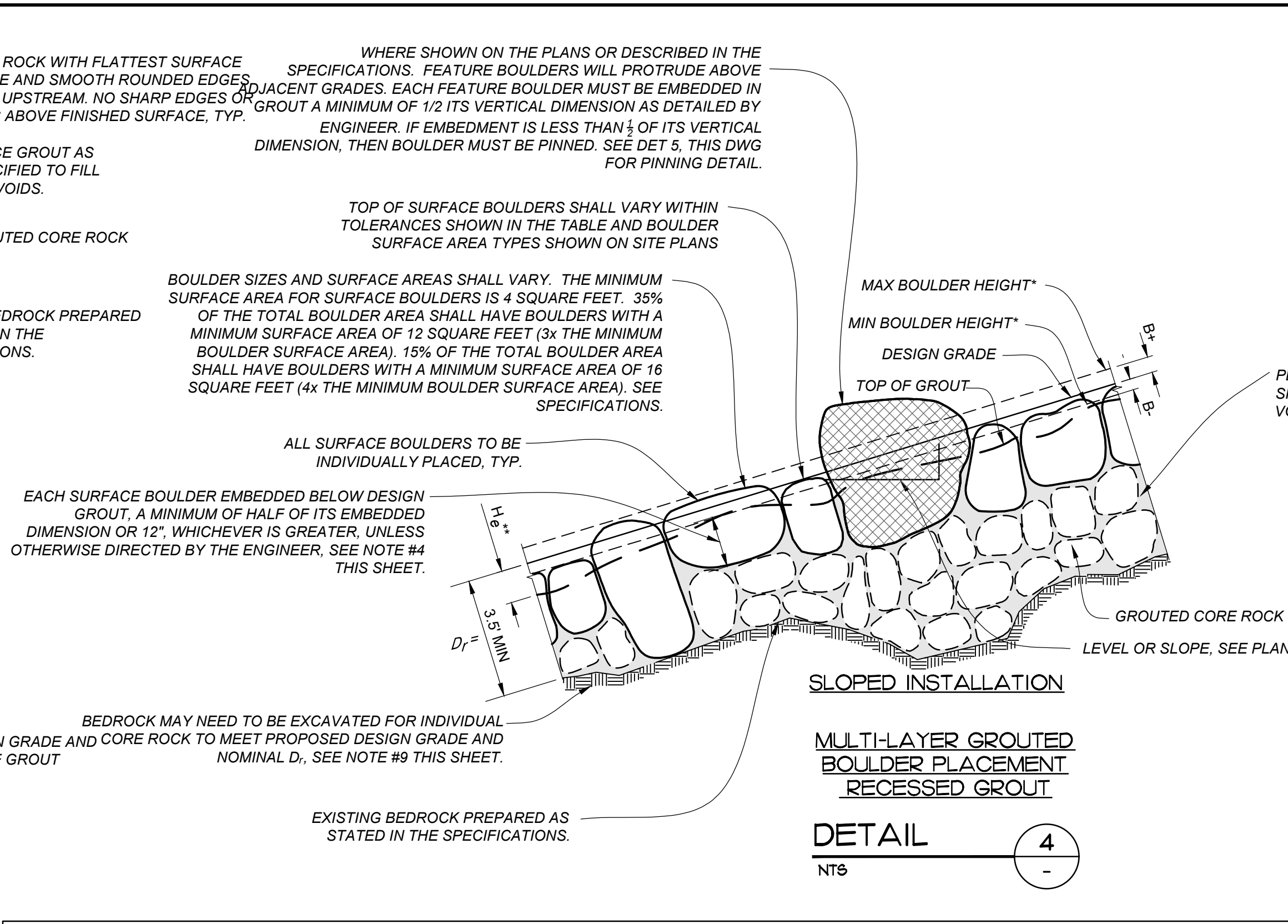
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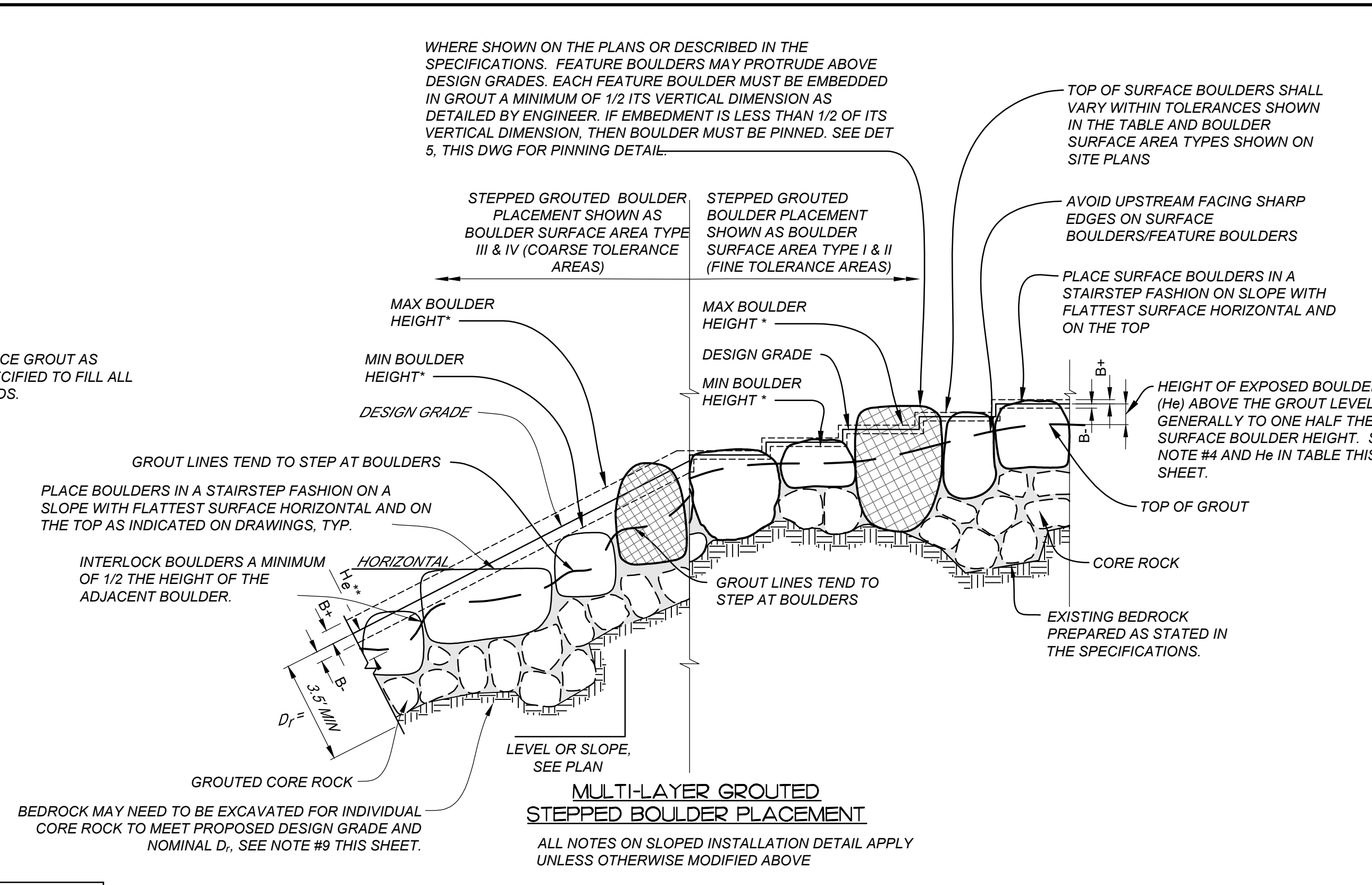
**CORE ROCK PLACEMENT FULL DEPTH GROUT**  
 ALL NOTES ON SLOPED INSTALLATION DETAIL APPLY UNLESS OTHERWISE MODIFIED ABOVE  
**DETAIL 1**  
 NTS



**NON-REINFORCED BEDROCK GROUTED CORE ROCK TOE CONNECTION**  
**DETAIL 2**  
 NTS



**SLOPED INSTALLATION MULTI-LAYER GROUTED BOULDER PLACEMENT RECESSED GROUT**  
**DETAIL 3**  
 NTS



**SLOPED INSTALLATION MULTI-LAYER GROUTED STEPPED BOULDER PLACEMENT**  
 ALL NOTES ON SLOPED INSTALLATION DETAIL APPLY UNLESS OTHERWISE MODIFIED ABOVE  
**DETAIL 4**  
 NTS

**GENERAL GROUTED BOULDER NOTES:**

- BEFORE GROUTING, CLEAN ALL DIRT AND MATERIALS FROM ROCK THAT COULD PREVENT THE GROUT FROM BONDING TO ROCK.
- PLACE GROUT BY INJECTION METHODS TO FILL VOIDS TO THE SPECIFIED GROUT DEPTH. CLEAN EXCESS GROUT FROM ALL EXPOSED SURFACES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- BOULDER PLACEMENT SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO GROUT PLACEMENT.
- EXCEPT FOR FULL-DEPTH GROUTED CORE ROCK, THE ENGINEER SHALL MARK THE GROUT LINE ON PLACED BOULDER PRIOR TO GROUTING WHEN POSSIBLE. IN GENERAL, GROUT SHOULD BE PLACED PER TABLE (H<sub>e</sub>) BELOW TOP OF BOULDERS AND TO CONTACT POINTS OF ADJACENT BOULDERS. WHEN ENGINEER IS UNABLE TO MARK GROUT IN FIELD, CONTRACTOR SHALL COORDINATE WITH ENGINEER TO ESTABLISH GROUT LEVELS.
- EXCEPT FOR FULL-DEPTH GROUTED CORE ROCK, THE EXPOSED GROUT SHALL BE TROWELED AND FINISHED TO MINIMIZE VISIBILITY. HAVE INTEGRAL COLOR IN GROUT FOR THE TOP 6" DEPTH MINIMUM, WASH AND CLEAN ALL NON-GROUTED SURFACES. SURFACE OF BOULDERS ABOVE THE TOP OF THE GROUT TO REMAIN CLEAN AND FREE OF GROUT.
- CORE ROCK BELOW SURFACE BOULDERS IS NOT REQUIRED WHEN SURFACE BOULDER'S DIAMETER (IN DEPTH) ARE AT LEAST THE D<sub>r</sub> AND EXTEND TO BEDROCK TOP OF SURFACE BOULDERS SHALL BE WITHIN TOLERANCES SHOWN ON DETAIL TABLES AND PER BOULDER SURFACE AREA TYPES SHOWN ON SITE PLANS WITH THE APPROXIMATE AVERAGE BOULDER HEIGHT AT THE DESIGN GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- IF THE DEPTH FROM THE DESIGN GRADE TO THE BEDROCK SURFACE IS LESS THAN D<sub>r</sub>, THE CONTRACTOR SHALL EXCAVATE TO D<sub>r</sub> OR PIN THE SURFACE BOULDERS.
- BOULDERS AT CRESTS AND CONTROL SECTIONS SHALL BE WITHIN 0.1' OF DESIGN GRADE/SURFACE. SEE SPECIFICATIONS.
- GROUT SHALL BE SLOPED TO DRAIN TO AVOID PONDING OF WATER BETWEEN BOULDERS AND, WHERE APPLICABLE, SLOPED TO DRAWING TO ADJACENT PLANTER OR VEGETATED AREAS.

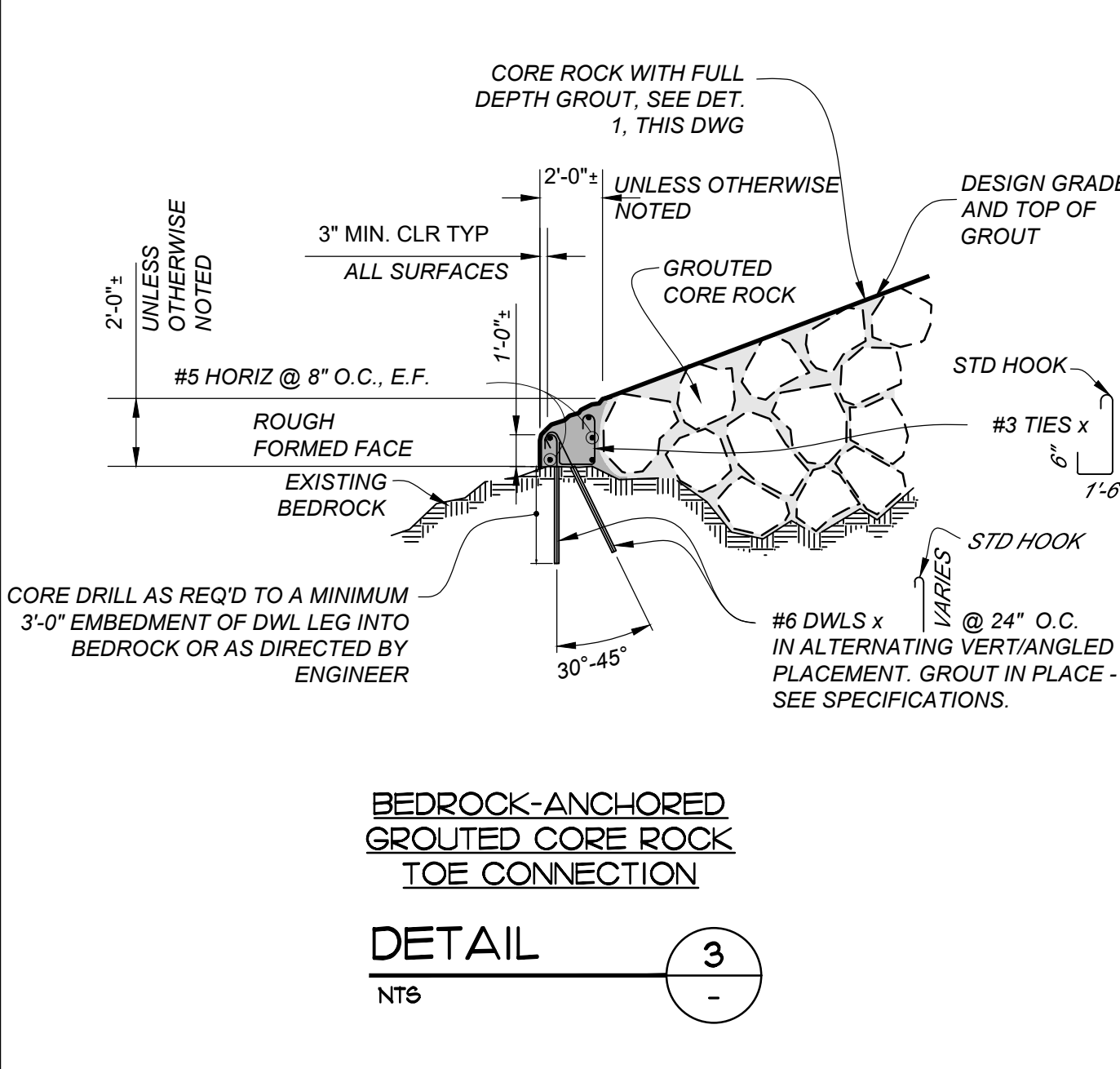
**DETAIL 7**  
 NTS

USED THIS PROJECT	DESIGNATION	D <sub>r</sub>	H <sub>e</sub> **	BOULDER SURFACE AREA (SEE PLANS FOR LOCATION)							
				TYPE I*		TYPE II*		TYPE III*		TYPE IV*	
				B+	B-	B+	B-	B+	B-	B+	B-
		42	12	1	1	3	3	4	8	12	12
		48	12								
		60	12								

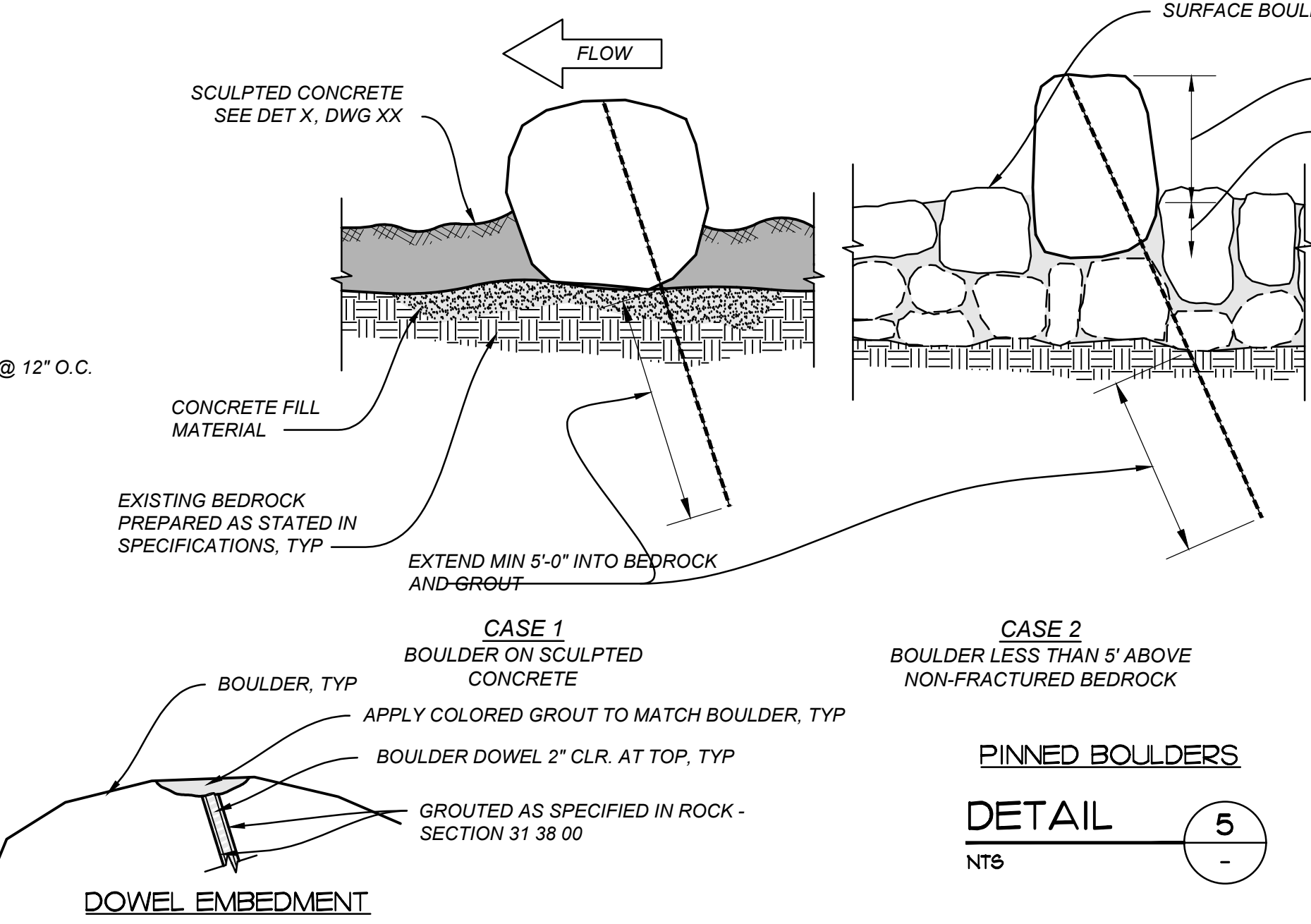
ALL DIMENSIONS IN INCHES

\* TOP OF BOULDER ABOVE AND BELOW DESIGN GRADE IS DEPENDENT ON ACTUAL BOULDERS SOURCED. ADJUSTMENT TO MINIMUMS AND MAXIMUM MAY BE MADE BY ENGINEER FROM BOULDER SAMPLE PANEL (SEE SPECIFICATIONS)

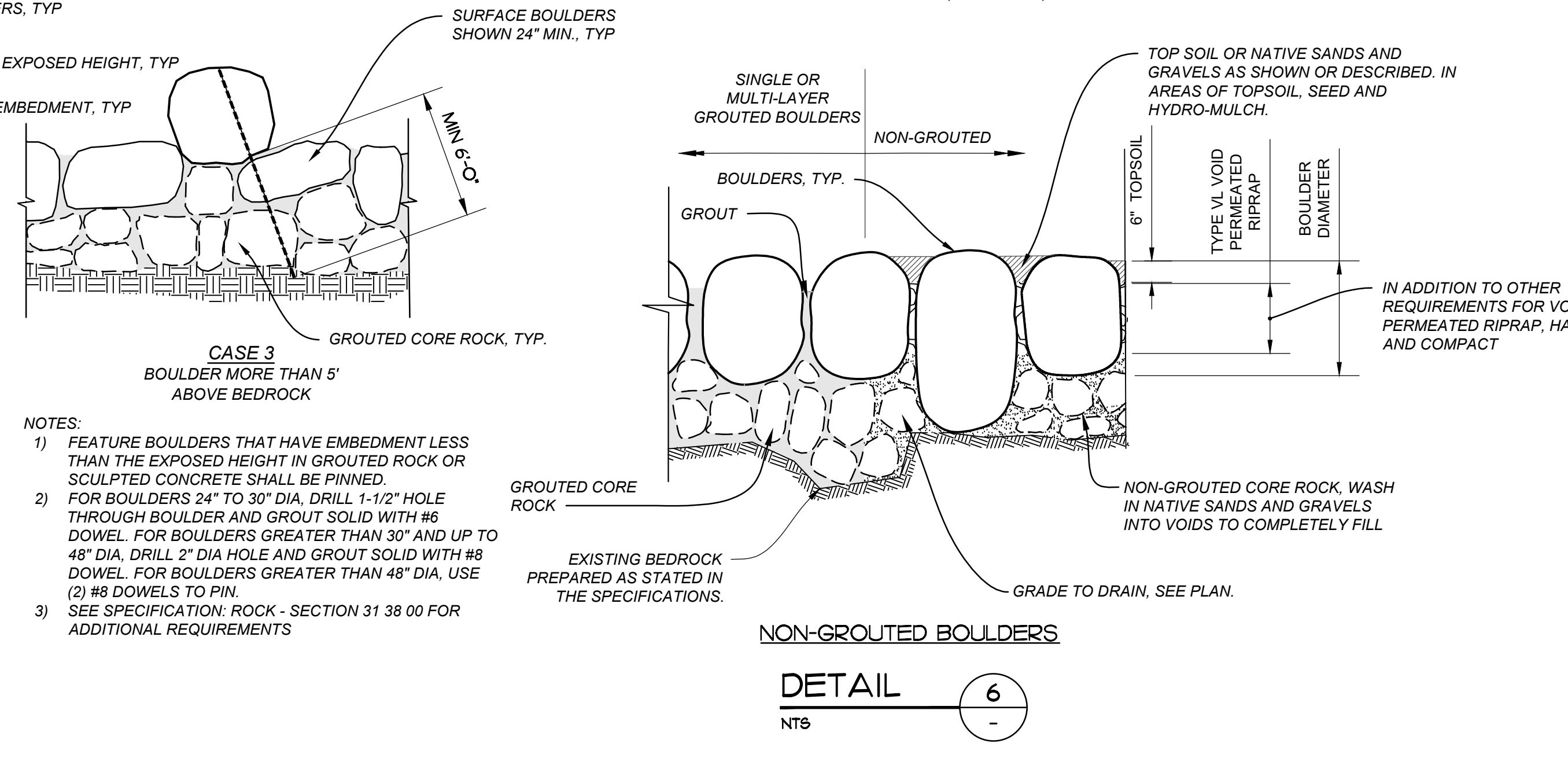
\*\* HEIGHT OF BOULDERS EXPOSED ABOVE GROUT LINE (H<sub>e</sub>) TO BE DETERMINED BY ENGINEER IN THE FIELD. (SEE NOTE 4).



**BEDROCK-ANCHORED GROUTED CORE ROCK TOE CONNECTION**  
**DETAIL 5**  
 NTS



**PINNED BOULDERS**  
**DETAIL 6**  
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**NON-GROUTED BOULDERS**  
**DETAIL 7**  
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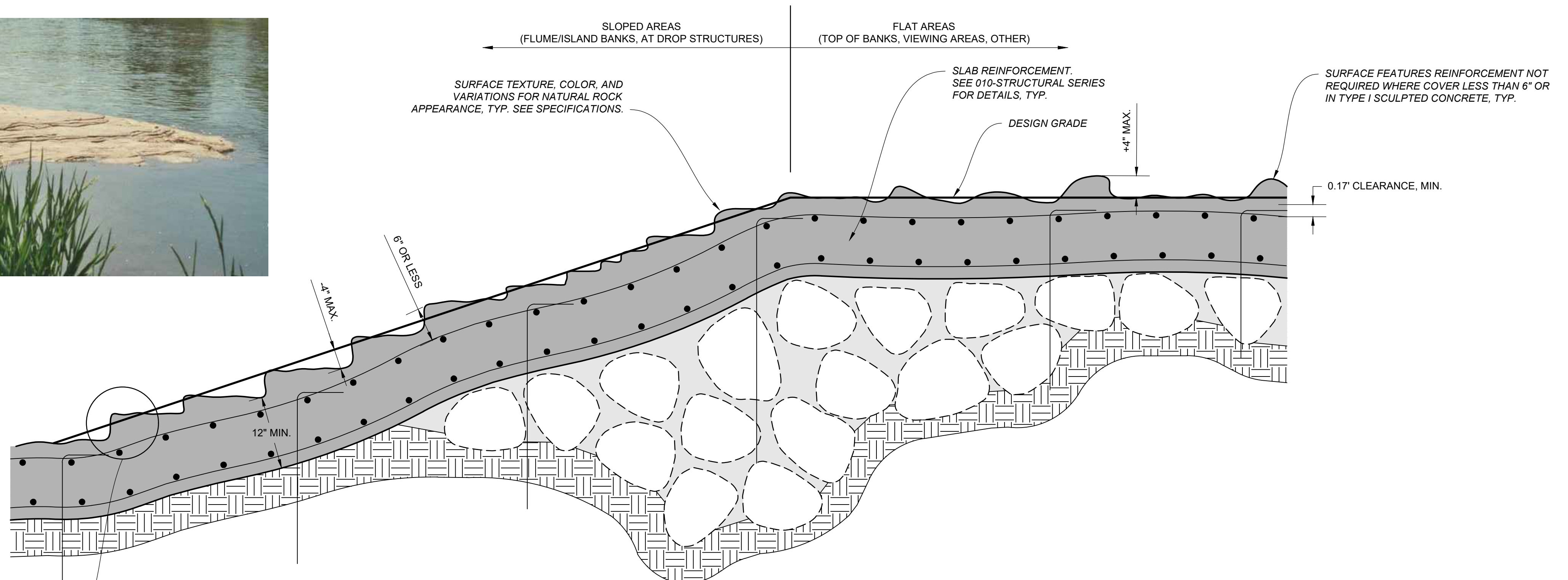
EXAMPLES OF SCULPTED CONCRETE - TYPE I



SURFACE VARIATIONS ABOVE AND BELOW DESIGN GRADE ARE REQUIRED TO ET AESTHETIC INTENT. OVERALL FINISHED SURFACE SHALL BE WITHIN  $\pm 3"$  OF DESIGN GRADE ON AVERAGE AS DETERMINED BY THE ENGINEER. IN CONTROL EAS, FINISHED SURFACE SHALL BE WITHIN  $\pm 1"$  OF DESIGN GRADE SHOWN ON DRAWINGS. SEE SPECIFICATIONS.

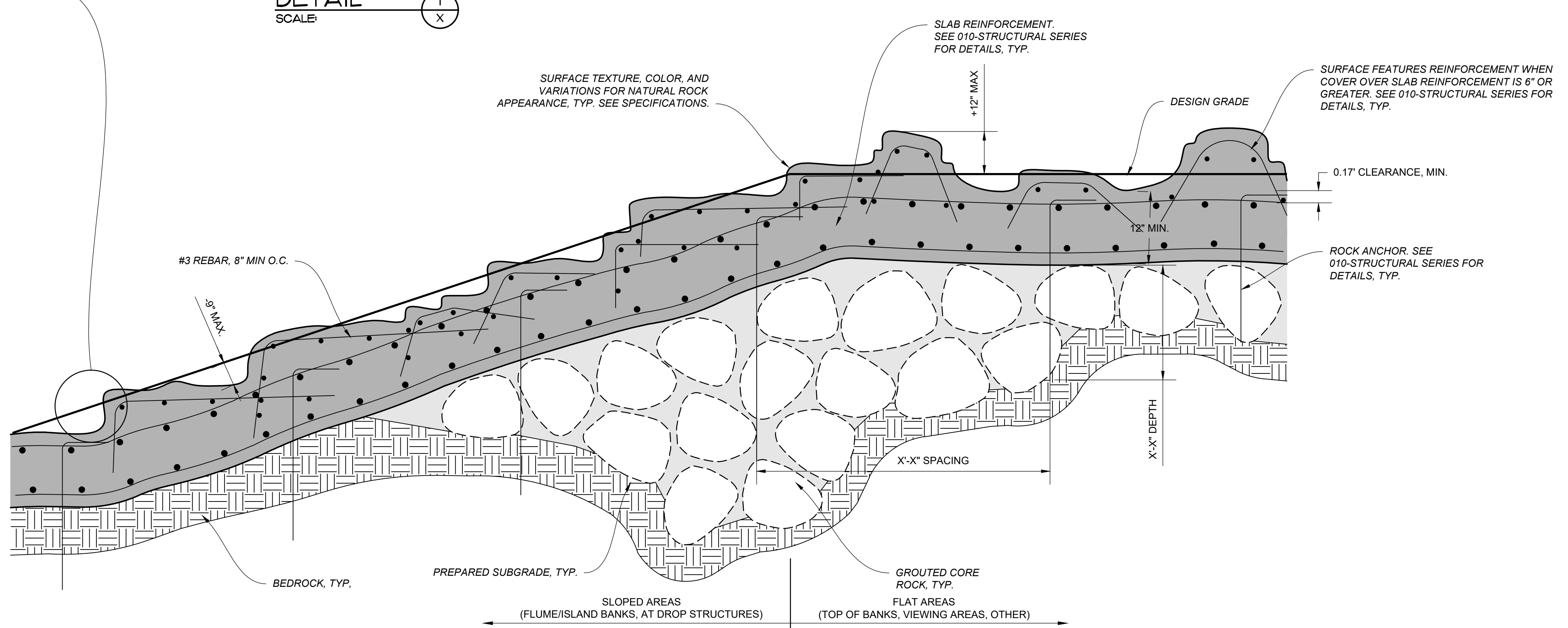


EXAMPLES OF SCULPTED CONCRETE - TYPE II



SCULPTED CONCRETE - TYPE I

DETAIL SCALE:  $\frac{1}{X}$



SCULPTED CONCRETE - TYPE II

DETAIL SCALE:  $\frac{2}{X}$

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 SKOWHEGAN, MAINE  
**SCULPTED CONCRETE**  
 DETAILS

JOB NUMBER 65420956  
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 DRAWING NO. C26  
 SHEET NO. 26 of 33