

**Addendum No. 2
to the Bidding Documents
Brush Reservoir Dam Improvements
Issued March 22, 2024**

Under the provisions of Article 7 of Section 00100, Instructions to Bidders, Bidders are informed that the Bidding Documents for the above-mentioned Project are modified, corrected, and/or supplemented as follows. Addendum No. 2 becomes part of the Bidding Documents and Contract Documents.

Acknowledge receipt of this addendum on the Bid Form. Failure to acknowledge receipt of the Addendum may subject the Bidder to disqualification.

Drawings Changes

Item 2-1 Drawing D-101, Sheet 5 of 17 – Site Preparation and Erosion Control - 1

Delete Drawing D-101 in its entirety and **replace** it with the attached Drawing D-101.

Item 2-2 Drawing D-102, Sheet 6 of 17 – Site Preparation and Erosion Control – 2

Delete Drawing D-102 in its entirety and **replace** it with the attached Drawing D-102.

Item 2-3 Drawing S-001, Sheet 13 of 17 – Structural Notes

Delete Drawing S-001 in its entirety and **replace** it with the attached Drawing S-001.

Item 2-4 Drawing S-101, Sheet 14 of 17 – Structural Plan and Upstream Elevation

Delete Drawing S-101 in its entirety and **replace** it with the attached Drawing S-101.

Item 2-5 Drawing S-103, Sheet 16 of 17 – Structural Sections and Details – 2

Delete Drawing S-103 in its entirety and **replace** it with the attached Drawing S-103.

END OF ADDENDUM NO. 2

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NOTES:

- SEE SPEC SECTION 02200 SITE PREPARATION FOR CLEARING AND GRUBBING DETAILS.
- TREE REMOVAL SHALL BE TO THE MINIMUM EXTENT PRACTICAL FOR TEMPORARY ACCESS. NOT ALL TREES TO BE REMOVED ARE SHOWN. INSPECT WITH ENGINEER PRIOR TO REMOVAL.
- RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS AT THE CONCLUSION OF THE PROJECT. REMOVE FILLS NEEDED FOR TEMPORARY ACCESS ROAD, RECONSTRUCT DISTURBED PORTIONS OF THE EXISTING STONE WALL AND 10 FEET ON EITHER SIDE OF ANY OPENINGS. LOAM AND SEED AS NECESSARY FOR EROSION CONTROL.



PHOTO 1
EROSION AT CONC. DAM DOWNSTREAM FACE

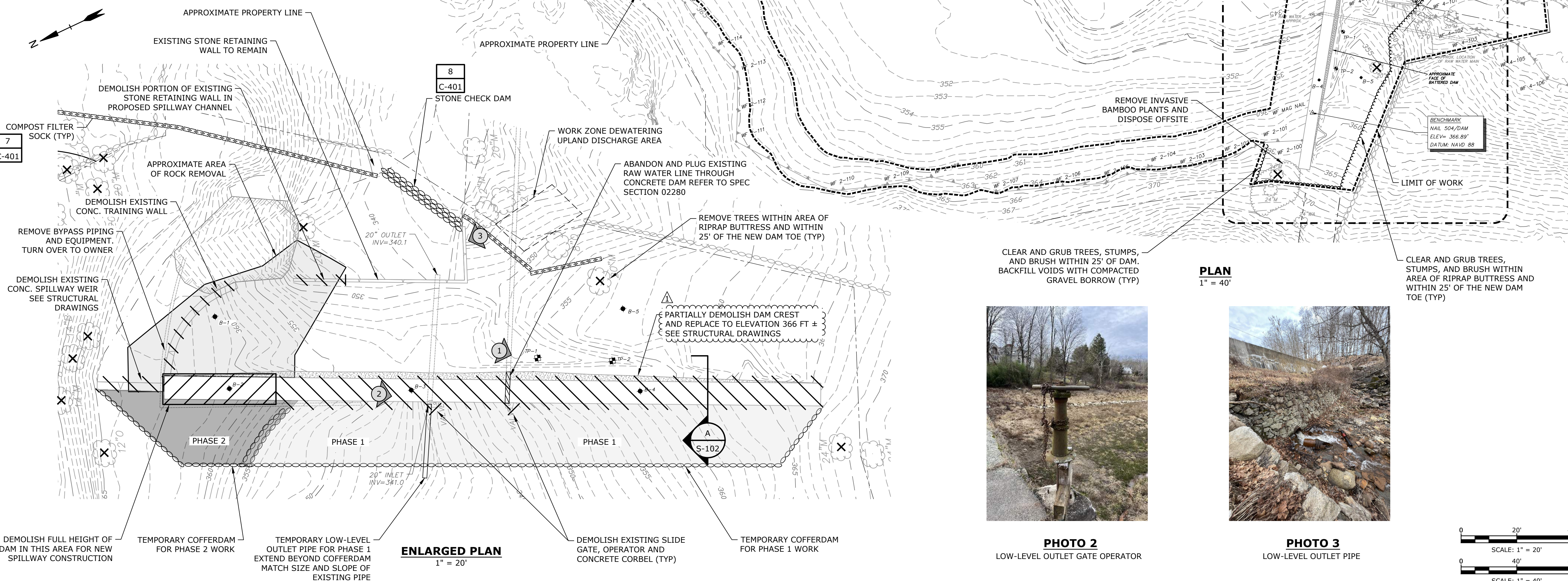
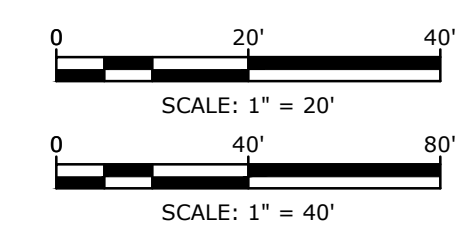


PHOTO 2
LOW-LEVEL OUTLET GATE OPERATOR



PHOTO 3
LOW-LEVEL OUTLET PIPE

PLAN
1" = 40'



Brush Reservoir Dam Improvements

Aquarion Water Company

Stamford, Connecticut

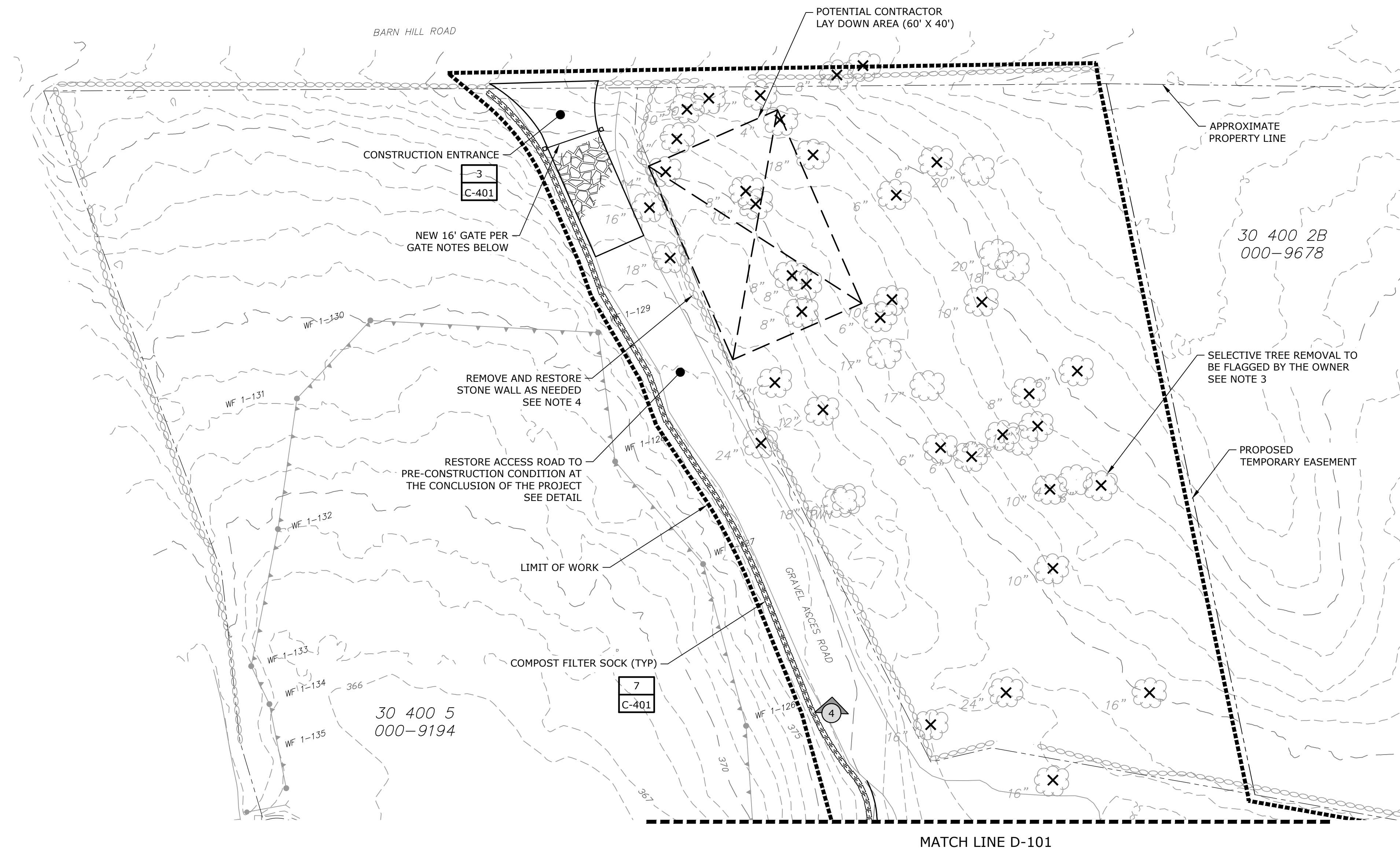
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1	3/2024	ADDENDUM NO. 2
0	2/2024	ISSUED FOR BIDDING

PROJECT NO: A-1000-195A
 DATE: 02/2024
 FILE: A1000-195A-D-101-102 - A.dwg
 DRAWN BY: MJC
 DESIGNED/CHECKED BY: RS/DFV
 APPROVED BY: CDH

SITE PREPARATION AND EROSION CONTROL - 1

SCALE: AS SHOWN

LAST Saved: 3/21/2024 9:45am By: RStanford
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 Tighe & Bond\3\A1000 ANCL\195 - Brush Reservoir Dam\Drawings - Figures\AutoCAD\Sheet\A1000-195A-D-101-102 - A.dwg



PLAN
1" = 20'

NOTES:

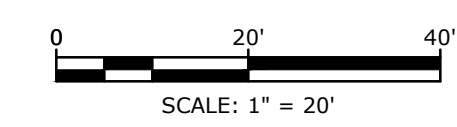
1. BOUNDARY LINE SURVEYED BY OTHERS. THIS DRAWING MAKES NO CLAIM TO THE ACCURACY OF THE BOUNDARY SHOWN. BOUNDARY LINES ARE APPROXIMATE AND ARE SHOWN FOR SCHEMATIC PURPOSES ONLY.
2. SEE SPEC SECTION 02200 SITE PREPARATION FOR CLEARING AND GRUBBING DETAILS.
3. TREE REMOVAL SHALL BE TO THE MINIMUM EXTENT PRACTICAL FOR TEMPORARY ACCESS. NOT ALL TREES TO BE REMOVED ARE SHOWN. INSPECT WITH ENGINEER PRIOR TO REMOVAL.
4. RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS AT THE CONCLUSION OF THE PROJECT. REMOVE FILLS NEEDED FOR TEMPORARY ACCESS ROAD, RECONSTRUCT DISTURBED PORTIONS OF THE EXISTING STONE WALL AND 10 FEET ON EITHER SIDE OF ANY OPENINGS. LOAM AND SEED AS NECESSARY FOR EROSION CONTROL.

GATE NOTES:

1. REMOVE EXISTING GATE AND POSTS.
2. INSTALL NEW GATE WHERE SHOWN ABOVE.
3. GATE COLOR SHALL BE DETERMINED BY THE OWNER.
4. GATE SHALL BE CENTER OPEN, 90 DEGREE SWING, POST-AND-RAIL DESIGN AS MANUFACTURED BY WALPOLE OUTDOORS OR APPROVED EQUAL.
5. CONTRACTOR SHALL PROVIDE GATE SHOP DRAWINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION.
6. GATE INSTALLATION PER MANUFACTURER'S REQUIREMENTS.



PHOTO 4
ACCESS ROAD AND STAGING AREA



SCALE: 1" = 20'

Brush Reservoir Dam Improvements

Aquarion Water Company

Stamford, Connecticut

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SITE PREPARATION AND EROSION CONTROL - 2

SCALE: AS SHOWN

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MARK	DATE	DESCRIPTION
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DATE: 02/2024		
FILE: A1000-195A-S-001 -A.dwg		
DRAWN BY: MJC		
DESIGNED/CHECKED BY: JC/DBS		
APPROVED BY: CDH		

STRUCTURAL NOTES

SCALE: NO SCALE

S-001

GENERAL

1. STRUCTURAL WORK SHALL CONFORM TO STATE BUILDING CODE (IBC 2021), LATEST EDITION, INCLUDING MOST RECENT ADDENDA, AND CONTRACT DOCUMENTS. IN CASE OF CONFLICT, MOST STRINGENT REQUIREMENT SHALL GOVERN.
2. CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS RELATED TO THIS PROJECT.
3. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING LABORATORY FOR CONCRETE AND SOILS TESTING. ALL TESTING COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

REINFORCEMENT

1. DETAILING, FABRICATION, AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)" AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315)", LATEST EDITION.
2. STEEL REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL CONFORM TO ASTM A615 GRADE 60 MINIMUM (YIELD STRENGTH - 60,000 PSI).
3. PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION: MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" ON CENTER, #5 SUPPORT BAR FOR HIGH CHAIRS, SLAB BOLSTERS, 3'-6" ON CENTER, ALL WIRE CHAIRS AND BOLSTERS TO BE PLASTIC TIPPED.
4. THE CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT SHALL BE 3 INCHES FOR CAST-IN-PLACE CONCRETE CAST AGAINST EARTH, OR EXPOSED TO WATER OR WEATHER AND 2 INCHES IF CAST-IN-PLACE IS NOT CAST AGAINST EARTH, OR EXPOSED TO WATER OR WEATHER, UNLESS OTHERWISE SHOWN.
5. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. REINFORCEMENT SHALL BE SPLICED IN ACCORDANCE WITH THE REBAR SPLICE LENGTH SCHEDULE.
6. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM REINFORCEMENT PERMITTED BY THE APPLICABLE CODES.
7. WHERE REINFORCEMENT IS CALLED FOR IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
8. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO SCHEDULED COMPLETION OF REINFORCEMENT PLACEMENT.
10. REINFORCEMENT SHALL BE SET BEFORE PLACING CONCRETE. SETTING ANY REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.
11. PROVIDE ANCHOR REINFORCEMENT IN ACCORDANCE WITH ACI 318-19 CHAPTER 17 AS NECESSARY.

FOUNDATIONS

1. NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
2. BOTTOM OF FOUNDATION ELEVATIONS GIVEN ON DRAWINGS ARE TO BE CONSIDERED MINIMUM DEPTHS. CONTRACTOR SHALL EXCAVATE DEEPER AS REQUIRED TO REACH A SUITABLE BEARING ELEVATION AS DETERMINED BY THE ENGINEER.
3. ALL EXCAVATIONS FOR FOOTINGS SHALL BE FINISHED BY HAND FOR THE LAST 6".
4. ALL FINISHED EXCAVATIONS SHALL BE INSPECTED BY THE ENGINEER BEFORE ANY FORMS, REINFORCING STEEL, OR CONCRETE IS PLACED.

CONCRETE

1. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301).
2. CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY OR THE ENGINEER.
3. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED AND SHALL BE AIR ENTRAINED (SEE SPECS).
4. THE USE OF CONSTRUCTION JOINTS WHERE SHOWN ON THE DRAWINGS IS MANDATORY. OMISSIONS, ADDITIONS OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMISSION OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER.
5. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.
6. CONCRETE SLABS SHALL BE CAST SO THAT THE THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.
7. CONCRETE SLABS AND WALLS SHALL BE CAST ALTERNATELY OR IN A CHECKERBOARD FASHION SO THAT ADJACENT SECTIONS ARE PLACED NO SOONER THAN THREE DAYS APART. AT LEAST TWO DAYS MUST ELAPSE AFTER PLACING CONCRETE IN WALLS BEFORE PLACING FLOOR SYSTEM SUPPORTED THEREON.
8. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED.
9. EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE CHAMFERED CORNERS
10. ONLY CRITICAL CONSTRUCTION JOINTS ARE SHOWN. SEE SPECIFICATIONS FOR REQUIRED MAXIMUM SPACING OF CONSTRUCTION JOINTS.

HYDROPHILIC STRIP WATERSTOP

1. HYDROPHILIC WATERSTOP SHALL BE HYDROTITE AS SUPPLIED BY SIKA GREENSTREAK OR EQUAL.
2. THE WATERSTOP SHALL BE COMPOSED OF CHLOROPRENE RUBBER AND CHLORINEPENE RUBBER MODIFIED TO IMPART HYDROPHILIC PROPERTIES.
3. THE WATERSTOP SHALL HAVE A DELAY COATING TO INHIBIT EXPANSION DUE TO MOISTURE PRESENT IN FRESH CONCRETE.
4. HYDROPHILIC WATERSTOP SHALL MEET THE PERFORMANCE REQUIREMENTS LISTED IN THE SPECIFICATIONS
5. HYDROPHILIC WATERSTOP SHALL BE ADHERED TO CONCRETE SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

GROUT:

1. ALL GROUT SHALL BE NON-SHRINK WITH A COMPRESS STRENGTH NOT LESS THAN 5000 PSI AT 7 DAYS, AND 7500 PSI AT 28 DAYS.
2. PROVIDE NOTIFICATION PRIOR TO THE START OF ANY PHASE OF GROUT PLACEMENT WORK SO AS TO PROVIDE THE OPPORTUNITY TO INSPECT THE WORK. SUCH NOTIFICATION SHALL BE MADE AT LEAST 24 HOURS IN ADVANCE OF GROUT PLACEMENTS AND AT LEAST 36 HOURS IN ADVANCE.

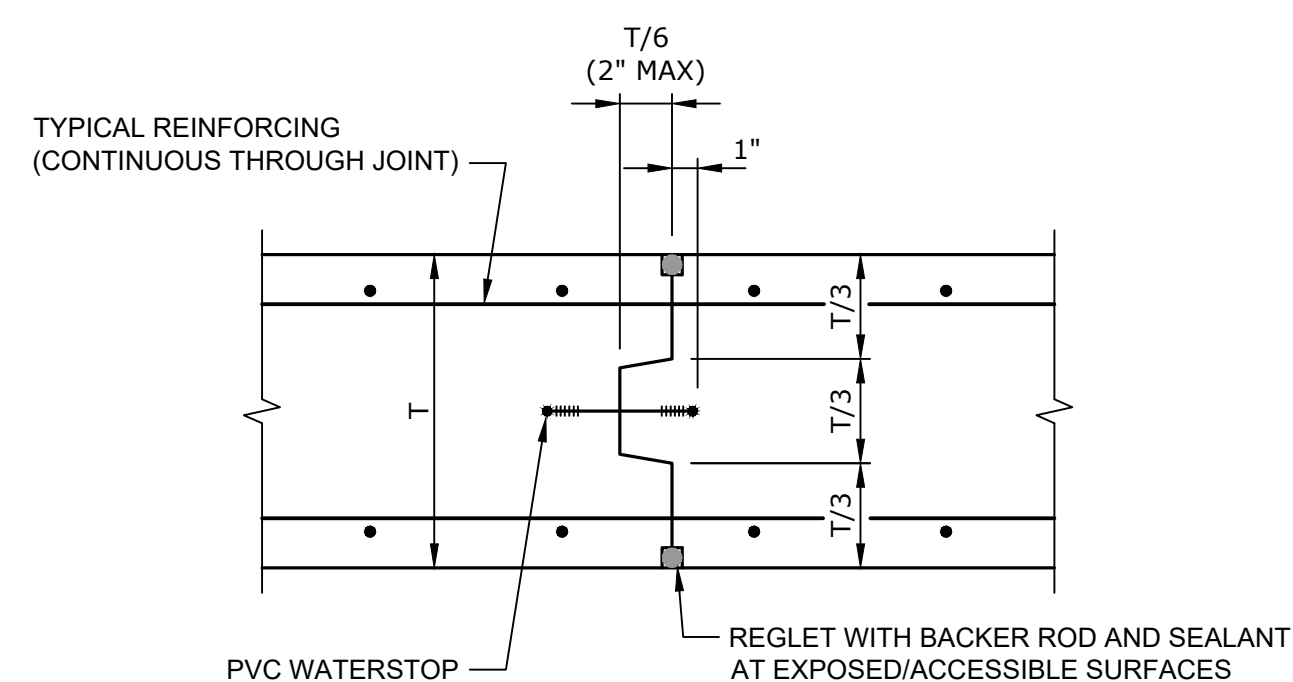
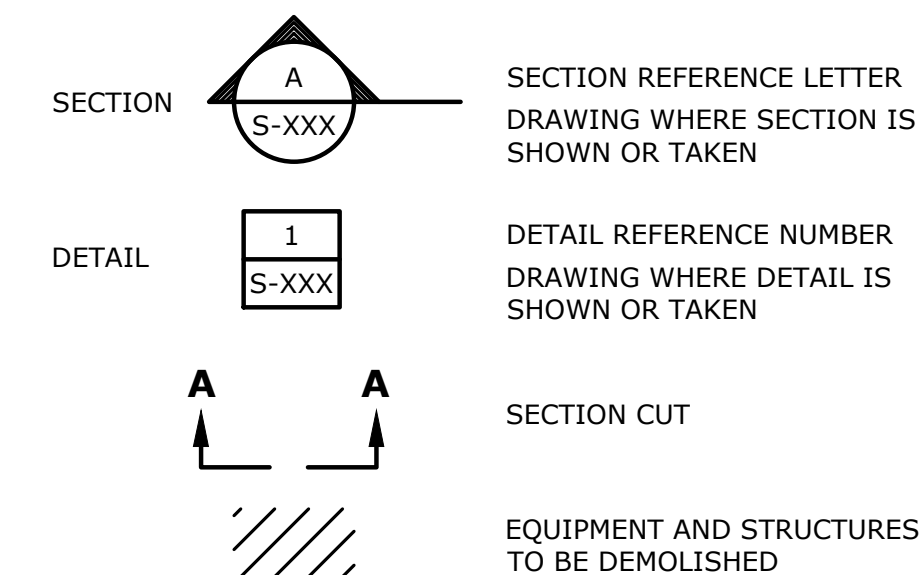
BAR SIZE DESIGNATION		DEVELOPMENT LENGTH (INCHES)	SPLICE LENGTH (INCHES)	
ENGLISH	METRIC	Ld	CLASS B	CLASS B TOP BARS
#3	#10	15	19	25
#4	#13	19	25	33
#5	#16	24	31	40
#6	#19	29	37	48
#7	#22	42	54	70

REBAR SPLICE LENGTH SCHEDULE

NOTES:

1. IF CLEAR SPACING BETWEEN THE REBARS IS LESS THAN THREE BAR DIAMETERS, OR IF COVER IS LESS THAN TWO BAR DIAMETERS, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
2. IF EPOXY COATED REBAR IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
3. IF LIGHTWEIGHT CONCRETE IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 30%.
4. THE MINIMUM REBAR SPLICE LENGTH SCHEDULE IS BASED ON F'c= 4,000 PSI AND Fy= 60,000 PSI. ADJUST FOR OTHER STRENGTHS USING ACI-318.
5. FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW, INCREASE THE DEVELOPMENT LENGTH BY AN ADDITIONAL 30%.
6. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE SPLICE LENGTH SHALL BE THE LARGER OF EITHER THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR.

GENERAL SYMBOLS

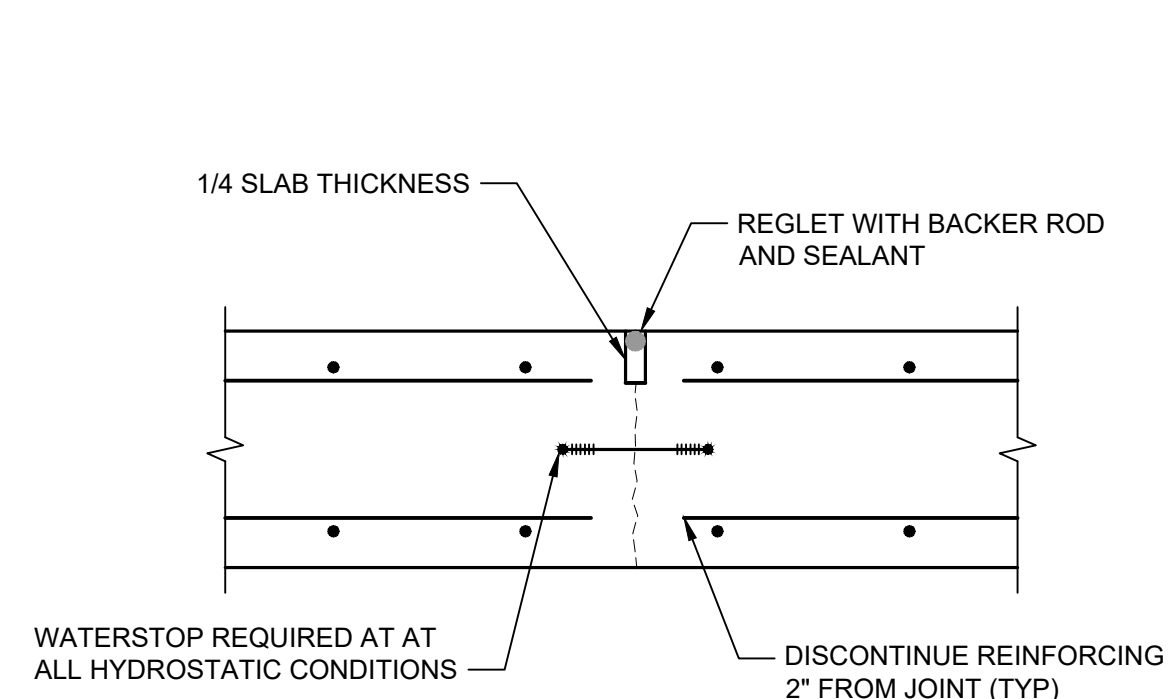


NOTE:

1. CONCRETE IS PLACED MONOLITHICALLY ON BOTH SIDES OF ALL CONTRACTION JOINTS.
2. TRAINING WALL AND CREST CONSTRUCTION JOINTS FOLLOW DETAIL ABOVE AND OMIT PVC WATERSTOP.

CONSTRUCTION JOINT (CNST JT)

DETAIL	1
NO SCALE	S-001

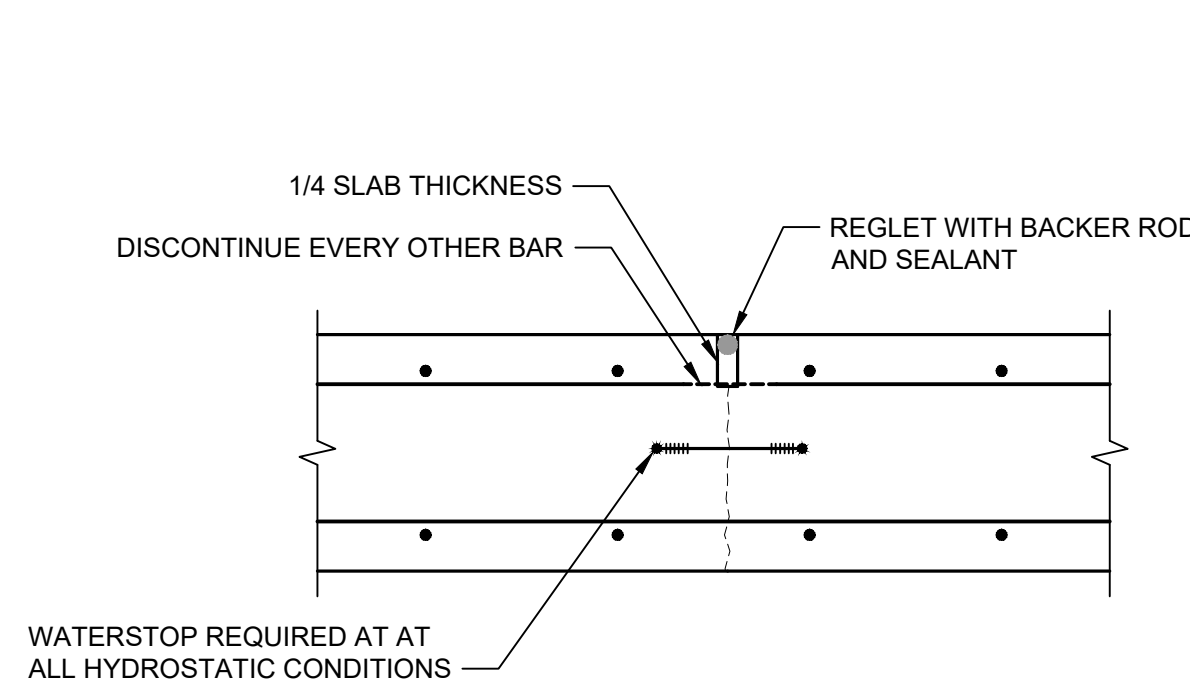


NOTE:

1. CONCRETE IS PLACED MONOLITHICALLY ON BOTH SIDES OF ALL CONTRACTION JOINTS.
2. CREST CONTRACTION JOINTS FOLLOW DETAIL ABOVE AND OMIT PVC WATERSTOP.

CONCRETE FULL CONTRACTION JOINT (FCJ)

DETAIL	2
NO SCALE	S-001

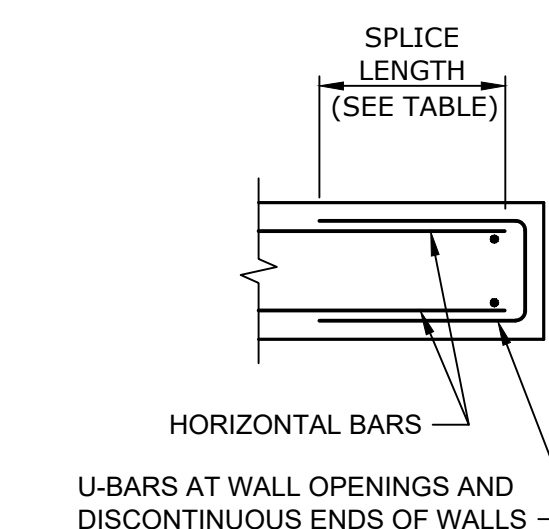


NOTE:

1. CONCRETE IS PLACED MONOLITHICALLY ON BOTH SIDES OF ALL CONTRACTION JOINTS.
2. CREST CONTRACTION JOINTS FOLLOW DETAIL ABOVE AND OMIT PVC WATERSTOP.

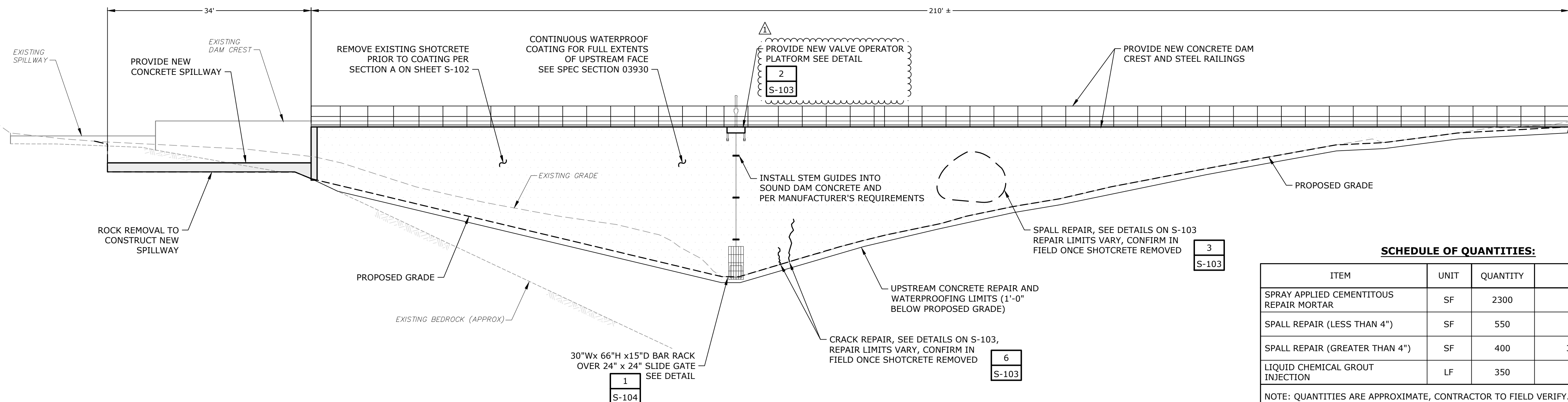
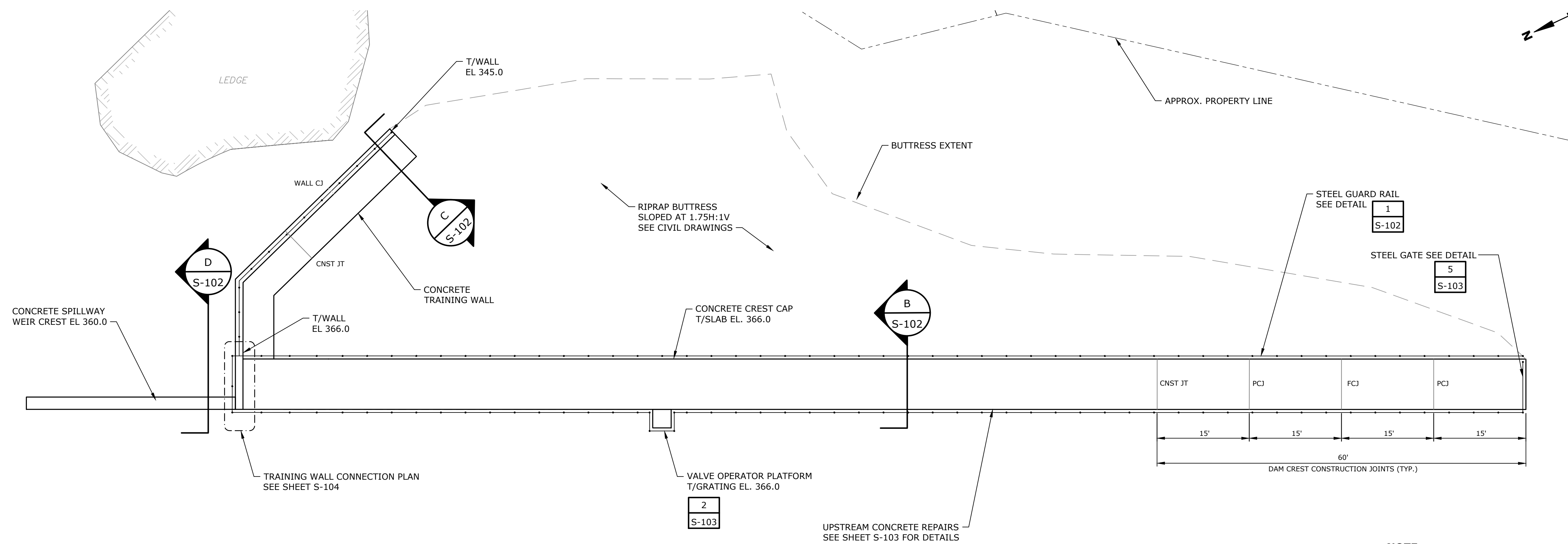
CONCRETE PARTIAL CONTRACTION JOINT (PCJ)

DETAIL	3
NO SCALE	S-001



PLAN OF HORIZONTAL REINFORCING AT END OF CONCRETE WALLS

DETAIL	4
NO SCALE	S-001



SCHEDULE OF QUANTITIES:

ITEM	UNIT	QUANTITY	DETAIL
SPRAY APPLIED CEMENTITIOUS REPAIR MORTAR	SF	2300	N/A
SPALL REPAIR (LESS THAN 4")	SF	550	3/S-103
SPALL REPAIR (GREATER THAN 4")	SF	400	3/S-103
LIQUID CHEMICAL GROUT INJECTION	LF	350	6/S-103

NOTE: QUANTITIES ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY. OWNER'S REPRESENTATIVE TO APPROVE OF REPAIR AREA QUANTITIES PRIOR TO COMPLETION OF REPAIRS.

Brush Reservoir Dam Improvements

Aquarion Water Company

Stamford, Connecticut

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DRAWN BY: MJC		
DESIGNED/CHECKED BY: JC/DBS		
APPROVED BY: CDH		

STRUCTURAL PLAN AND UPSTREAM ELEVATION

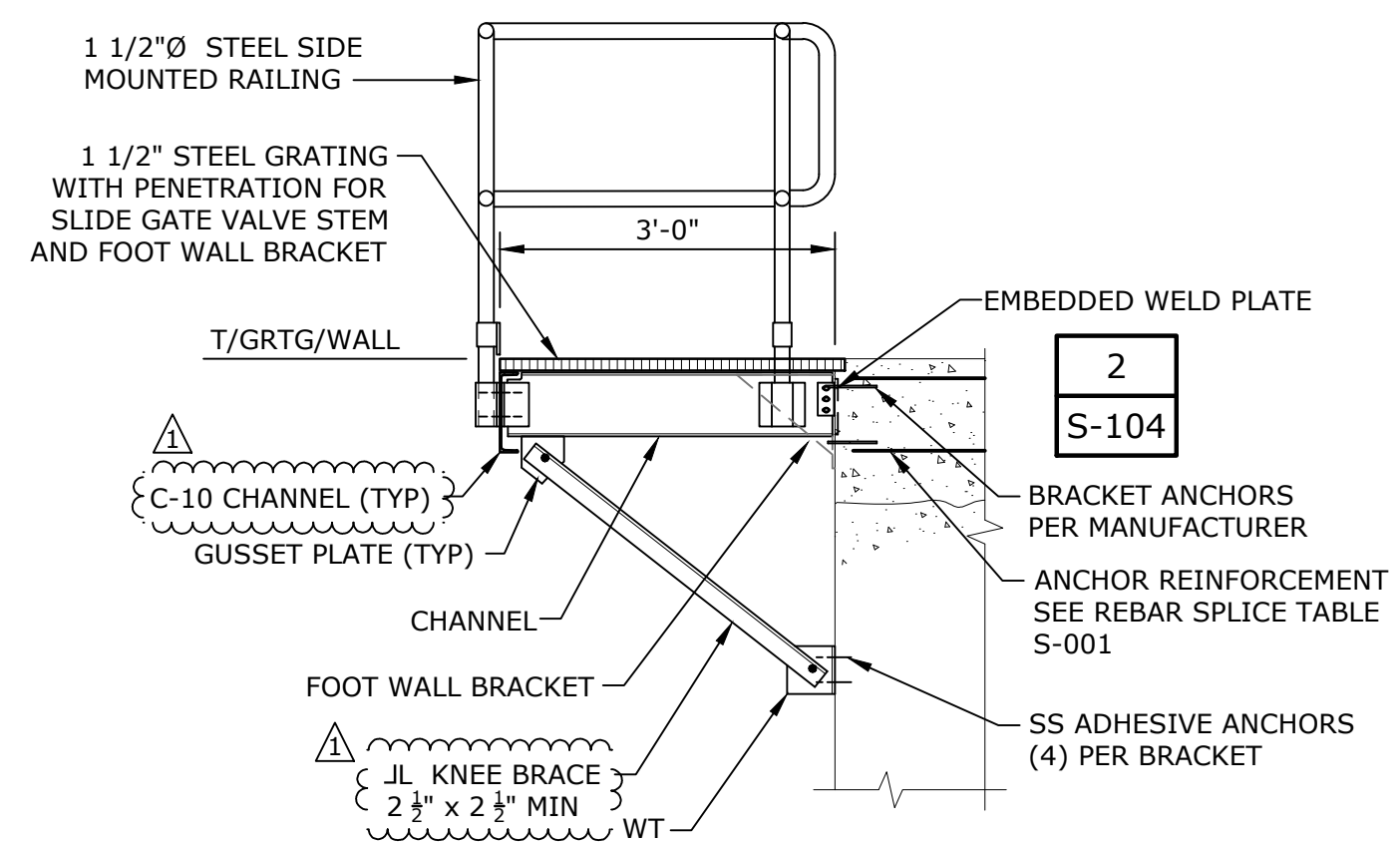
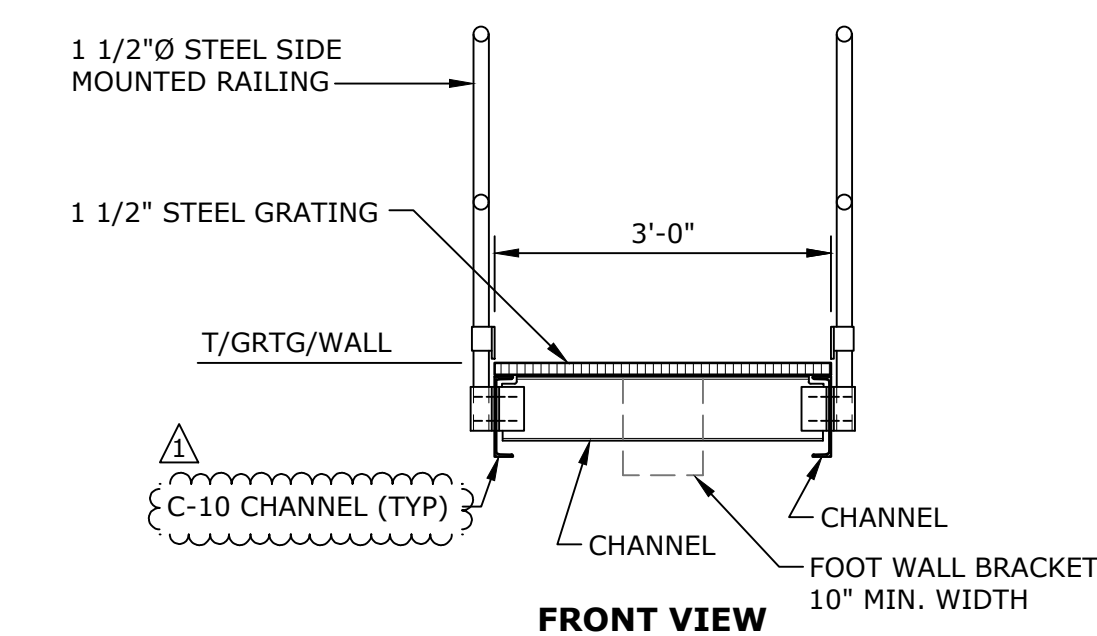
SCALE: AS SHOWN

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FILE: A1000-195A-S-102-S-103-S-104-A.dwg		
DRAWN BY: MJC		
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APPROVED BY: CDH		

STRUCTURAL SECTIONS AND DETAILS - 2

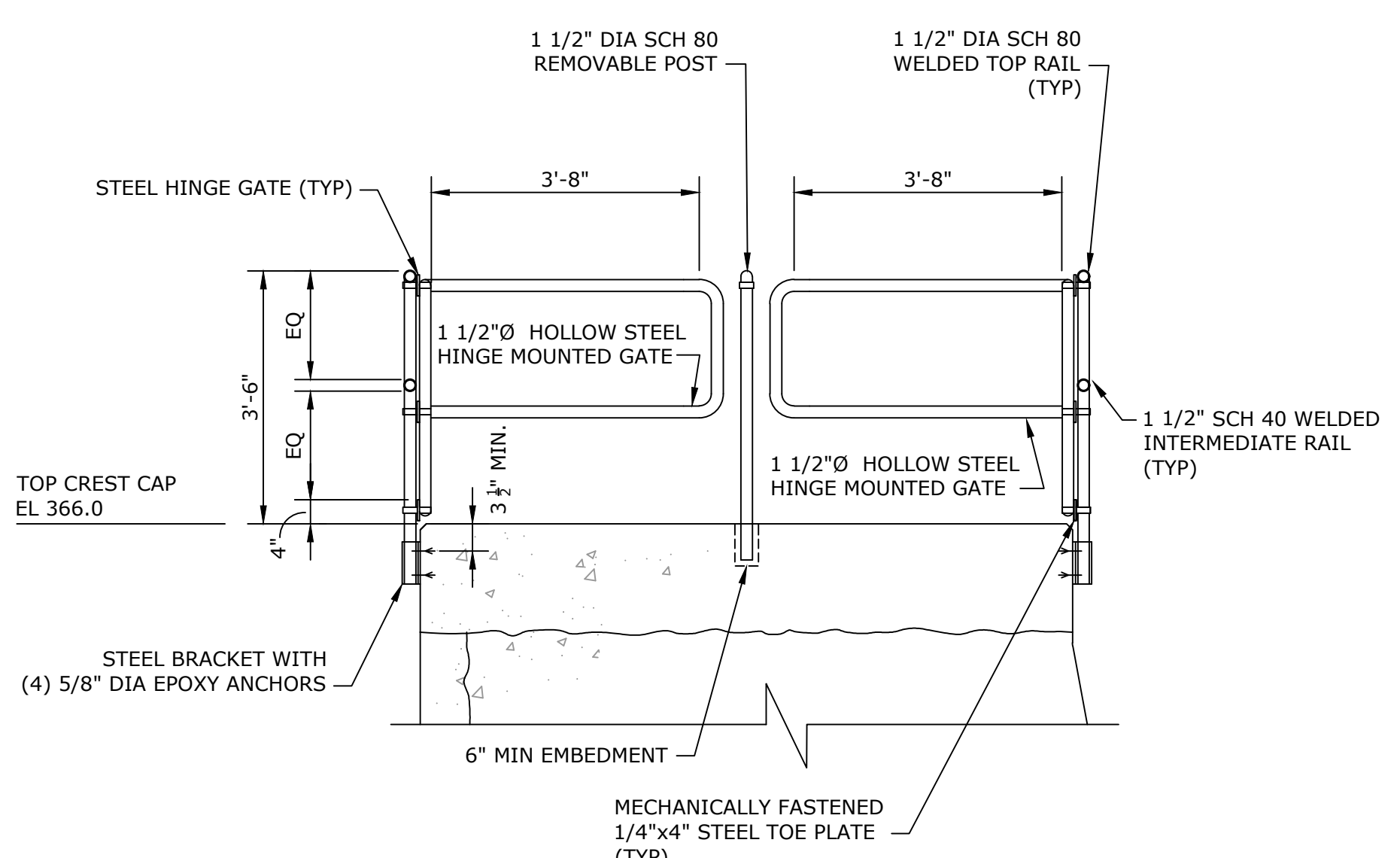
SCALE: NO SCALE



- NOTES:**
1. VALVE OPERATOR AND STEM NOT SHOWN FOR CLARITY. SEE SPEC SECTION 11285.
 2. CREST REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SECTION B ON S-102 FOR CREST REINFORCEMENT.
 3. MINIMUM ANGLE THICKNESS SHALL BE 3/8".
 4. FRAMING SHALL BE GALVANIZED STEEL TO MATCH RAILINGS.

VALVE OPERATOR PLATFORM AT DAM CREST

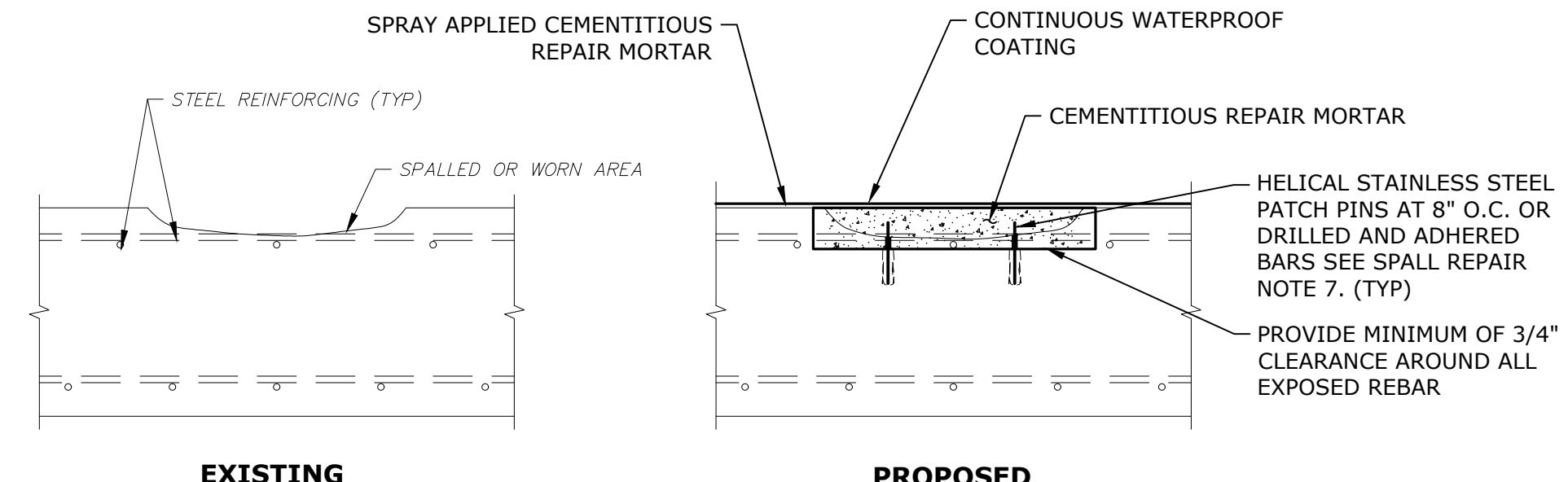
DETAIL	2
NO SCALE	S-101



GALVANIZED STEEL GATE AT DAM CREST

DETAIL	5
NO SCALE	S-101

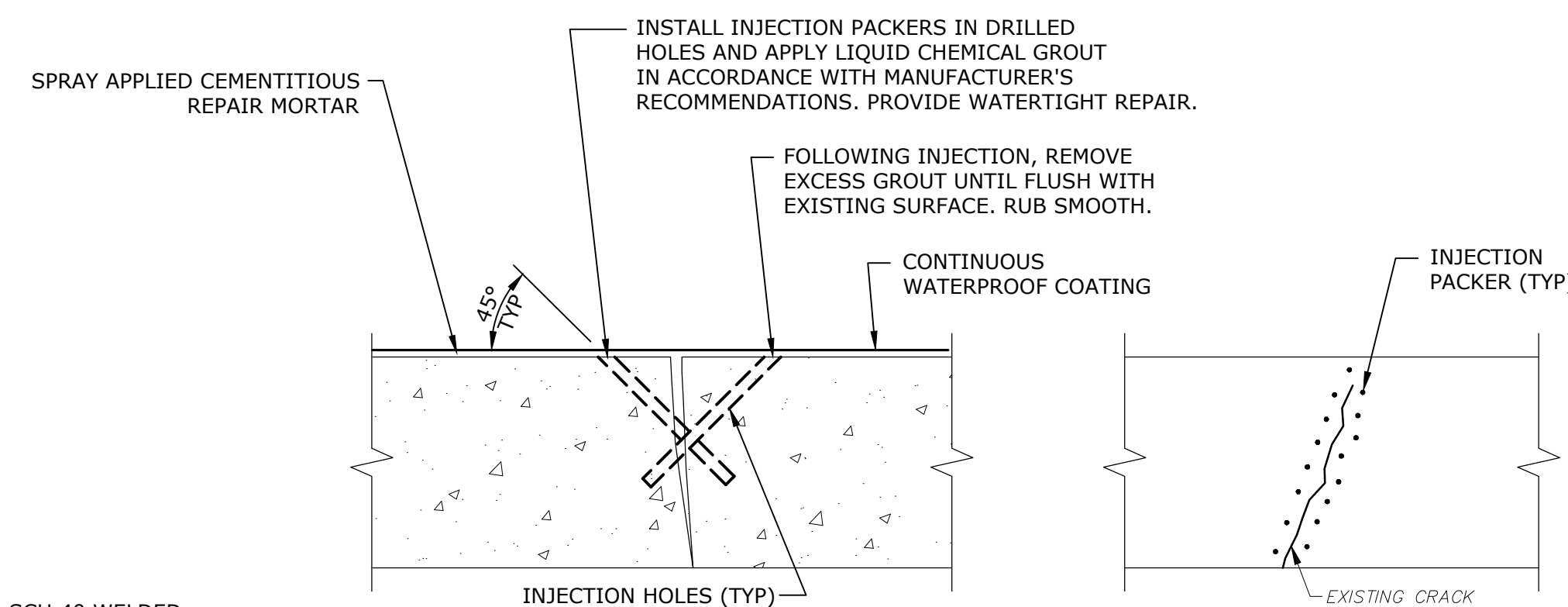
- NOTES:**
1. SEE SPECIFICATION 05500 FOR RAILING ANCHORAGE.



- PREPARATION NOTES:**
1. REMOVE ALL LOOSE OR UNSOUND CONCRETE.
 2. PREPARE EDGES OF REPAIR TO VERTICAL PROFILE.
 3. PROVIDE MINIMUM OF 3/4" CLEARANCE AROUND ALL EXPOSED REBAR.
 4. CONSULT ENGINEER IF EXPOSED REBAR HAS SECTION LOSS.
 5. REPAIR AREA IN CONFORMANCE WITH SPECIFICATION SECTION 03930.
- REPAIR NOTES:**
1. SURFACE TO BE SATURATED SURFACE DRY PRIOR TO APPLICATION OF REPAIR MORTAR.
 2. SCRUB IN A BRUSH COAT OF THE REPAIR MORTAR INTO THE SUBSTRATE TO FILL ALL PORES AND VOIDS.
 3. INSTALL AND MOIST CURE THE REPAIR MORTAR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 4. REPAIR MORTAR SHALL BE A PORTLAND CEMENT BASED PRODUCT IN ACCORDANCE WITH SECTION 03930.
 5. REPAIR MORTAR SHALL BE COMPATIBLE WITH THE PROPOSED WATERPROOF COATING SYSTEM.
 6. SPRAY APPLIED CEMENTITIOUS REPAIR MORTAR SHALL BE APPLIED TO THE FULL UPSTREAM FACE TO CREATE A UNIFORM SURFACE PRIOR TO WATERPROOF COATING.
 7. FOR REPAIRS LESS THAN 4" DEEP, INSTALL 316 STAINLESS STEEL HELICAL ANCHORS AT 8" OC EACH WAY WITH 1/2" MINIMUM COVER.
 8. FOR REPAIRS 4" OR DEEPER, DRILL AND ADHESIVE ANCHOR #3 REINF BARS AT 18" OC EACH WAY. PROVIDE A MINIMUM OF 1 1/2" CLEAR COVER OVER BARS WITH 3 1/2" EMBEDMENT INTO SOUND CONCRETE.

SPALL REPAIR

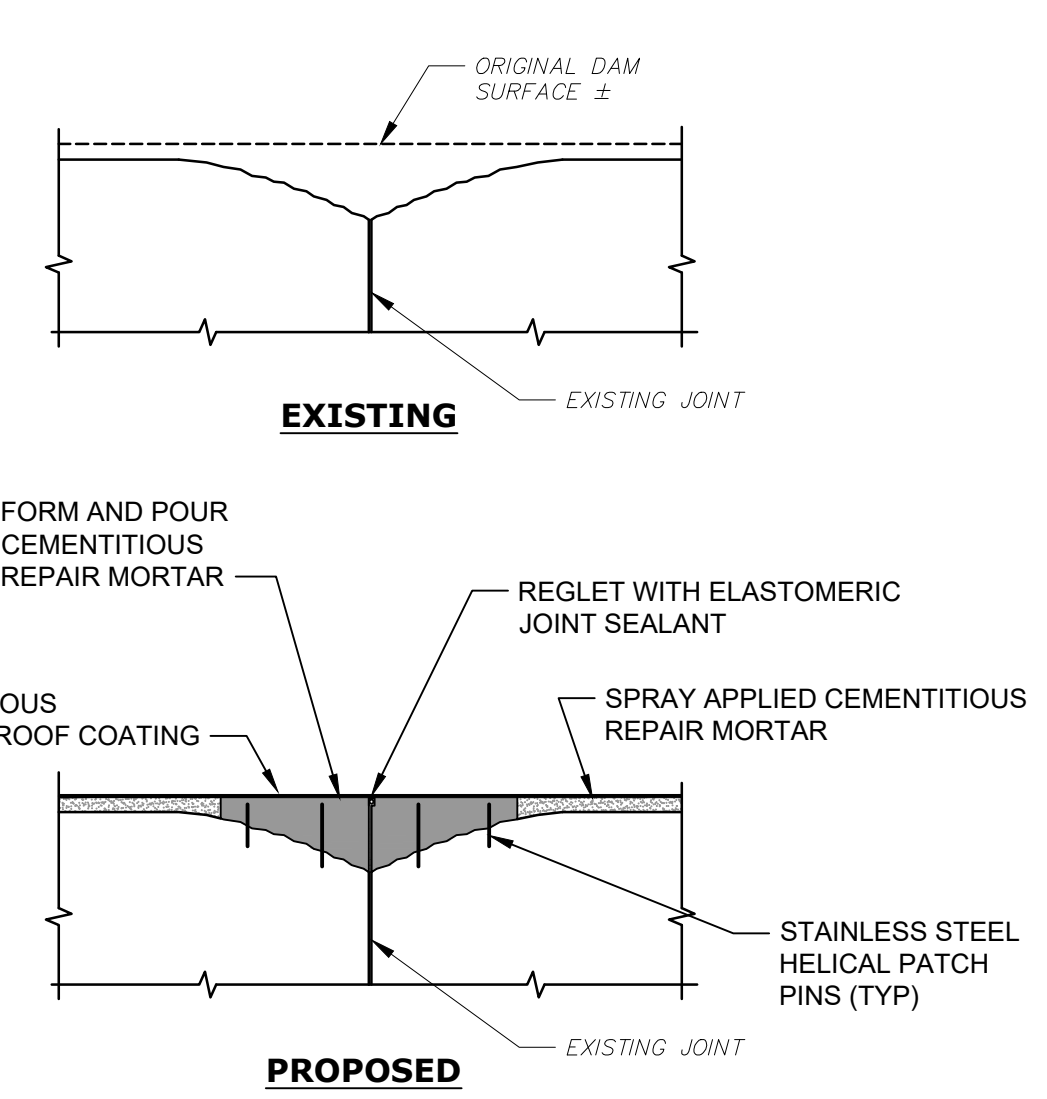
DETAIL	3
NO SCALE	S-101



- NOTES:**
1. ALL LEAKING CRACKS AND JOINTS TO BE SEALED IN ACCORDANCE WITH SPEC SECTION 03930.
 2. MAXIMUM HOLE SIZE IS 5/8" DIA. MINIMUM CRACK SIZE IS 1/16".
 3. PACKERS TO BE INSTALLED IN DRILLED HOLES.
 4. STAGGER PACKERS ON OPPOSITE SIDES OF CRACK.
 5. SPACE PACKERS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. MAXIMUM SPACING OF PACKERS IS 12".
 6. INJECT LEAKING CONSTRUCTION JOINTS PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS SECTION 03930.

LIQUID CHEMICAL GROUT INJECTION

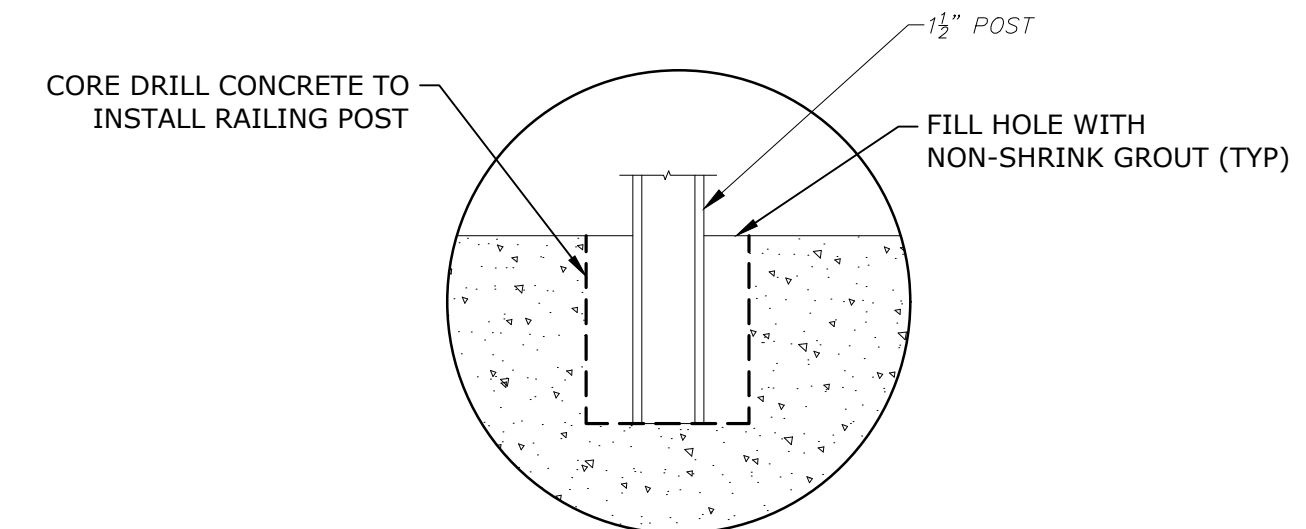
DETAIL	6
NO SCALE	S-101



- NOTES:**
1. PREPARE SURFACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 2. INSTALL STAINLESS STEEL HELICAL PATCH PINS AT 8" OC EACH WAY. PROVIDE MINIMUM OF 1/2" COVER ON ALL SIDES OF PATCH PINS.
 3. MIX, APPLY, AND CURE CEMENTITIOUS REPAIR MORTAR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. PERFORM GROUT INJECTION PRIOR TO SPALL REPAIR PER DETAIL 6 EXCEPT AT EXISTING EXPANSION JOINTS.

SPALL REPAIR AT JOINT

DETAIL	4
NO SCALE	S-101



GUARDRAIL POST

DETAIL	7
NO SCALE	-

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