

CITY OF ATLANTA

EAST AREA WATER QUALITY CONTROL FACILITY IMPROVEMENTS

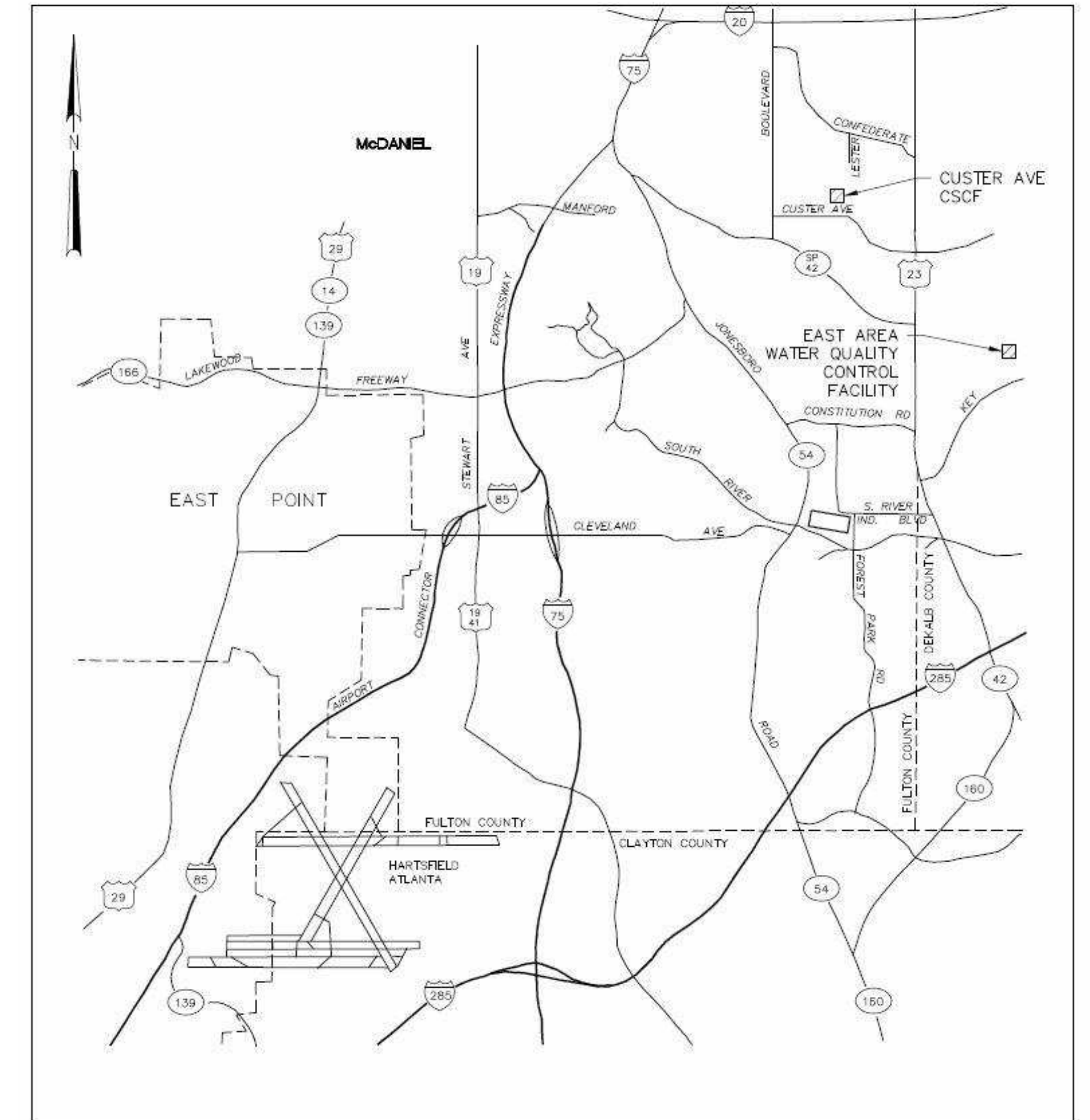
SEDIMENTATION BASIN NO. 2 WALL REPAIR

FACILITY	PARCEL ID	DISTRICT	LAND LOT	COUNTY
EAST AREA WATER QUALITY CONTROL FACILITY	15.11101005	15	111	DEKALB

SHEET LIST TABLE	
Sheet Number	Sheet Title
GENERAL	
G-001	COVER SHEET AND DRAWING INDEX
STRUCTURAL	
S-001	GENERAL STRUCTURAL NOTES
S-002	STRUCTURAL QUALITY ASSURANCE
S-003	SEDIMENTATION BASIN 2 BOTTOM DEMOLITION PLAN
S-004	SEDIMENTATION BASIN 2 TOP DEMOLITION PLAN
S-005	SEDIMENTATION BASIN 2 DEMOLITION SECTIONS
S-006	SEDIMENTATION BASIN 2 BOTTOM PLAN
S-007	SEDIMENTATION BASIN 2 TOP PLAN
S-008	SEDIMENTATION BASIN 2 SECTIONS
S-009	SEDIMENTATION BASIN 2 CONNECTION DETAILS I
S-010	SEDIMENTATION BASIN 2 CONNECTION DETAILS II
S-011	SEDIMENTATION BASIN 2 TYPICAL DETAILS
S-012	SPROCKET SUPPORT AND RAILING DETAILS



OWNER
CITY OF ATLANTA
DEPARTMENT OF WATERSHED
MANAGEMENT
72 MARIETTA STREET, NW
ATLANTA, GEORGIA 30303



LOCATION MAP



PROJECT MANAGER: BRIAN RUGGS, PE
GEORGIA REGISTRATION NO. : 040202

CITY OF ATLANTA
MAYOR
ANDRE DICKENS

WATERSHED MANAGEMENT
COMMISSIONER
MIKITA BROWNING

CSS MANAGER
LAMONT FERREBEE

DESIGN COORDINATOR: CARLOS GALLO, PE, SE
GEORGIA REGISTRATION NO. : 018726



Know what's below.
Call before you dig.

PROJECT NO.: 30030286			
NO.	DATE	ISSUED FOR	BY
1	OCTOBER 2022	100% DESIGN SUBMITTAL	CG

G-001

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs-S-3D-SB2-R21.rvt 10/11/2022 9:05:21 PM

GENERAL

- G-1 THESE NOTES ARE GENERAL AND SUPPLEMENTAL TO THE SPECIFICATIONS AND APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- G-2 STANDARD DETAILS SHOWN ON STRUCTURAL TYPICAL DRAWINGS SHALL BE USED, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- G-3 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS (2020), EXCEPT WHERE OTHER APPLICABLE CODES AND THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
- G-4 SEISMIC DESIGN DATA:
 1. RISK CATEGORY: III
 2. SEISMIC IMPORTANCE FACTOR, $I_e = 1.25$
 3. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 A) $S_s = 17.8\%$
 B) $S_1 = 8.4\%$
 4. SITE CLASS = D
 5. SPECTRAL RESPONSE COEFFICIENTS:
 A) $S_{ps} = 19.0\%$
 B) $S_{p1} = 13.4\%$
 6. SEISMIC DESIGN CATEGORY = C
- G-5 WIND DESIGN DATA:
 1. ULTIMATE DESIGN WIND SPEED: 113 MPH
 2. RISK CATEGORY: III
 3. WIND EXPOSURE: C
- G-6 DRAWING DIMENSIONS ARE TO BE VERIFIED EITHER BY FIELD MEASUREMENTS FOR EXISTING STRUCTURES OR BY SHOP DRAWINGS FOR EQUIPMENT FURNISHED. STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER PRIOR TO CONSTRUCTION.
- G-7 EQUIPMENT ANCHOR BOLT SIZES, TYPES, AND PATTERNS SHALL BE AS REQUIRED BY THE APPROVED EQUIPMENT MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO INSURE ACCURACY OF PLACEMENT.
- G-8 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
- G-9 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED BY THE ENGINEER.
- G-10 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.
- G-11 CONTRACTOR SHALL PROVIDE A 1.5:1 LAYBACK DISTANCE FOR EXCAVATION AT ALL STRUCTURES, EXCEPT WHERE SHEETING IS USED TO FACILITATE EXCAVATION.
- G-12 NO BACKFILL SHALL BE PLACED AGAINST ANY WALL UNLESS ALL SUPPORTING ELEMENTS OF THE STRUCTURE HAVE BEEN CONSTRUCTED AND HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH AT 28 DAYS.
- G-13 DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- G-14 CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- G-15 WHERE CONNECTIONS TO OR MODIFICATIONS OF EXISTING STRUCTURES ARE SHOWN, EXISTING FOUNDATIONS, WALLS, COLUMNS, SLABS, BEAMS, FLOORS, DECKS, (CONCRETE, STEEL, TIMBER, ETC.) ARE ASSUMED TO BE IN GOOD CONDITION. THIS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER. ALL UNSOUND STRUCTURAL ELEMENTS SHALL BE REPAIRED TO SOUND CONDITION AS APPROVED BY THE ENGINEER. EXISTING CONSTRUCTION DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE WORK COMMENCES. VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ENGINEER.
- G-16 ARCADIS IS ONLY RESPONSIBLE FOR THE NEW WALL CONSTRUCTED ABOVE THE FOUNDATION AND INTERIOR HORIZONTAL MEMBER CONNECTIONS INTO THE WALL.

FOUNDATION

- F-1 ARCADIS IS NOT RESPONSIBLE FOR STRUCTURAL CONDITION AND CAPACITY OF EXISTING FOUNDATION

CONCRETE

- C-1 CONCRETE 28-DAY COMPRESSIVE STRENGTH:
 CLASS A - 4500 PSI
- C-2 REINFORCEMENT: ASTM A615, GRADE 60.
 ASTM A706, GRADE 60
- C-3 CONCRETE COVER FOR REINFORCING:
 A) SURFACES CAST AGAINST EARTH 3"
 B) SURFACE WITH EMBEDDED PVC WATERSTOP 3"
 C) ALL OTHER SURFACES 2"
- C-4 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE LOCATED AS REQUIRED BY THE SPECIFICATIONS. CONSTRUCTION JOINT TYPES AND LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER.
- C-5 WHERE HORIZONTAL CONSTRUCTION JOINTS, LOCATED ABOVE THE FOUNDATION SLAB, EXTEND BEYOND WHERE NEEDED, TERMINATE AT A VERTICAL CONSTRUCTION JOINT AS APPROVED BY THE ENGINEER.
- C-6 PROVIDE PVC WATERSTOPS IN ALL FOUNDATION, SLAB AND WALLS FOR WATER RETAINING STRUCTURES.
- C-7 SHOP DRAWINGS FOR EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS SHALL BE PROVIDED PRIOR TO PLACING CONCRETE.
- C-8 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH MATCHING DOWELS SET IN EPOXY IN DRILLED HOLES AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3 INCHES FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.
- C-9 WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER BEFORE PROCEEDING.
- C-10 DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
- C-11 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.
- C-12 CONTRACTOR SHALL PROVIDE 3/4 INCH CHAMFER USING WOOD CHAMFER STRIPS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS OR AS REQUIRED TO MATCH EXISTING.
- C-13 LAP SPLICES SHALL BE IN ACCORDANCE WITH THE TABLE SHOWN ON THIS SHEET.
- C-14 PROVIDE ADDITIONAL REINFORCEMENT AT OPENINGS AND WALL INTERSECTIONS AS SHOWN ON TYPICAL DETAILS.

GENERAL REQUIREMENTS AND SITE WORK:

- SW-1 SECTION 02050 DEMOLITION AND SECTION 02060 HYDRODEMOLITION HAVE BEEN ADDED TO THE SPECIFICATION PACKAGE. REFERENCE BID PACKAGE NO. 2 EAST AREA WATER QUALITY CONTROL FACILITY IMPROVEMENTS PROJECT FOR OTHER APPLICABLE SPECIFICATIONS FOR DIVISION 1 & 2.

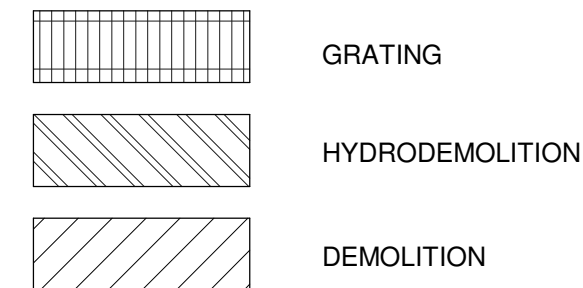
ALUMINUM

1. ALL ALUMINUM SHALL BE NEW AND CONFORM TO THE APPLICABLE ASTM SPECIFICATIONS AS REGISTERED WITH "THE ALUMINUM ASSOCIATION". FOR THE ALLOYS LIST BELOW:
 A. STRUCTURAL SHAPES AND PLATES ALLOY 6061-T6.
 B. WELDING FILLER ALLOY 5356.
 C. BOLTS - STAINLESS STEEL TYPE AISI TYPE 316.
 D. ANCHOR BOLTS - STAINLESS STEEL AISI TYPE 316.
2. SHOP CONNECTIONS SHALL BE BOLTED OR WELDED.
3. FIELD CONNECTIONS SHALL BE BOLTED. FIELD WELDING SHALL NOT BE PERMITTED UNLESS SO NOTED ON THE CONTRACT DRAWINGS.
4. BRACING SHALL HAVE A MINIMUM OF TWO BOLTS PER CONNECTION UNLESS NOTED.
5. ALL BOLTS SHALL BE 5/8" DIA. MIN. UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS.
6. WHERE ALUMINUM COMES IN CONTACT WITH CONCRETE OR OTHER DISSIMILAR MATERIALS, BACK PAINT ALUMINUM AS INDICATED IN THE DRAWING

ABBREVIATIONS

- EJ - EXPANSION JOINT
 CJ - CONSTRUCTION JOINT
 TYP - TYPICAL
 THK - THICKNESS
 DIA - DIAMETER
 EQ - EQUAL
 CONC - CONCRETE
 STD - STANDARD
 T&B - TOP AND BOTTOM
 EF - EACH FACE
 EA - EACH
 CLR - CLEAR
 HORIZ - HORIZONTAL
 VERT - VERTICAL
 REINF - REINFORCEMENT
 ϕ - DIAMETER OF ANCHOR BAR

SYMBOLS



LAP SPLICE AND EMBEDMENT LENGTH TABLE

BAR SIZE	REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH AND STANDARD HOOKS (INCHES)												
	MIN LAP LENGTHS FOR				MIN EMBEDMENT LENGTHS				MIN STD. HOOKS				
	BEAMS AND COLUMNS*		SLABS AND WALLS **		FOR BEAMS AND COLUMNS *		FOR SLABS AND WALLS **		WITH STANDARD HOOK	90°		135°	
	CLASS B	CLASS B	CLASS B	CLASS B	TOP***	OTHERS	TOP***	OTHERS		A OR G	A OR G	A OR G	H
#3	25	19	16	16	19	15	12	12	5	6	4	2.5	
#4	33	25	20	16	25	19	15	12	7	8	4.5	3	
#5	41	31	25	19	31	24	19	15	9	10	5.5	3.75	
#6	49	37	29	23	37	29	23	18	10	12	8	4.5	
#7	71	54	43	33	54	42	33	25	12	14	9	5.25	
#8	81	62	49	37	62	48	37	29	14	16	10.5	6	
#9	91	70	60	46	70	54	46	36	15	19	-	-	
#10	102	79	74	57	79	61	57	44	17	22	-	-	
#11	114	87	89	69	87	67	68	53	19	24	-	-	

REINFORCEMENT LAP SPLICE, EMBEDMENT LENGTH AND STANDARD HOOKS TABLE IS BASED ON A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI AND 60000 PSI REINFORCEMENT (WITH NO EPOXY COATING).

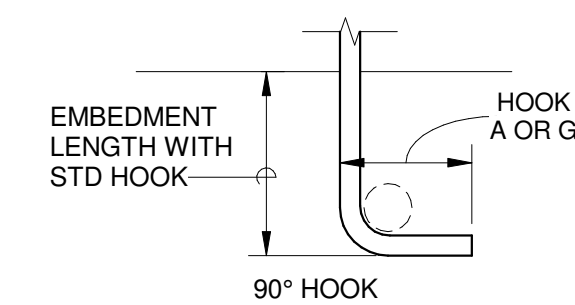
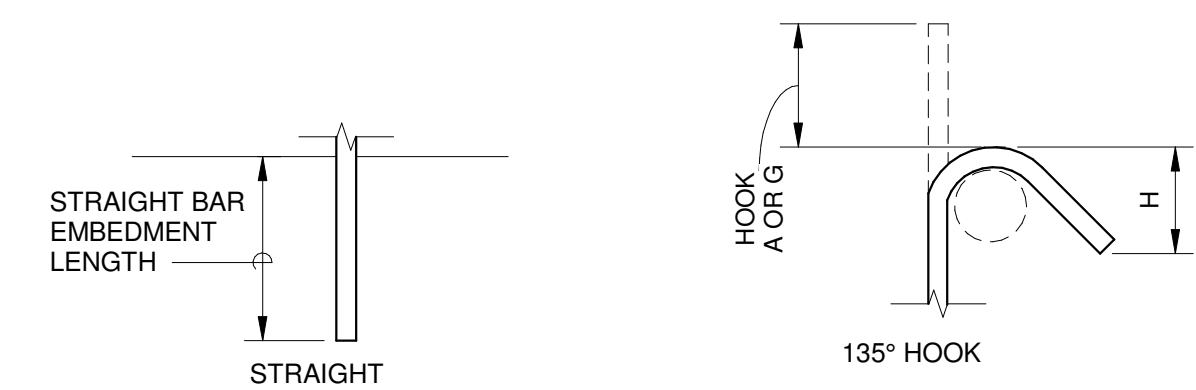
ALL LAPS SPLICES SHALL BE CLASS B SPLICES.

* THE MINIMUM LAP LENGTH FOR BEAMS, COLUMNS AND STRAIGHT EMBEDMENTS ARE BASED ON A 3 BAR DIAMETER MINIMUM CENTER TO CENTER BAR SPACING AND A 2 INCH BAR COVER. IF THE SPLICE AND/OR EMBEDMENT DOES NOT CONFORM TO THESE REQUIREMENTS, THEN CONTRACTOR SHALL APPLY APPROPRIATE FACTORS IN COMPLIANCE WITH ACI 318 WITH APPROVAL BY ENGINEER.

** THE MINIMUM LAP LENGTH FOR SLABS, WALLS AND STRAIGHT EMBEDMENTS ARE BASED ON A 6 INCH BAR SPACING AND A 2 INCH BAR COVER. IF THE LAP CONDITION DOES NOT CONFORM TO THESE REQUIREMENTS, THEN USE BEAM LAP LENGTHS; OR COMPLY WITH LAP REQUIREMENTS OF ACI 318 WITH APPROVAL BY ENGINEER.

*** TOP BARS ARE DEFINED AS ALL HORIZONTAL BARS WITH 12" OR MORE FRESH CONCRETE BENEATH.

WHERE SPLICES ARE REQUIRED BETWEEN BARS OF DIFFERENT SIZES, THE LAP LENGTH SHALL BE NO LESS THAN THE EMBEDMENT LENGTH OF THE LARGER BAR OR THE LAP LENGTH OF THE SMALLER BAR, WHICHEVER IS GREATER.



SEALS

100% SUBMITTAL



2839 Paces Ferry Road
 Suite 900
 Atlanta, GA 30339
 Tel: 770-431-8666
 Fax: 770-435-2666
 www.arcadis-us.com



ATLANTA, GEORGIA
 CITY OF ATLANTA
 DEPARTMENT OF WATERSHED MANAGEMENT

EAST AREA WATER QUALITY CONTROL
 FACILITY IMPROVEMENTS

W.01.02.0085

SHEET TITLE
 STRUCTURAL

GENERAL STRUCTURAL
 NOTES

DATE: OCTOBER 2022
 PROJECT NO.: 30030286
 DESIGNED BY: C. GALLO/ P. LUNKAD
 DRAWN BY: V. SRIPAL
 CHECKED BY: H. HOBI

SCALE: NONE

S-001

SHEET 2 OF 13

COPYRIGHT: ARCADIS U.S., INC. 2022				
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT	3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
	2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
	1	JULY 2022	30% DESIGN SUBMITTAL	CG
NO.	DATE	ISSUED FOR	BY	

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL:

THIS STRUCTURAL QUALITY ASSURANCE PLAN IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE INSPECTOR IN PERFORMING THE TESTING AND INSPECTION OF THE WORK. REFER TO OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS FOR TESTING AND INSPECTIONS REQUIRED OF MECHANICAL, ELECTRICAL, CIVIL, OR OTHER BUILDING COMPONENTS.

CONTRACTOR'S RESPONSIBILITIES:
 CONTRACTOR SHALL NOTIFY INSPECTION AGENCY/LABORATORY AT LEAST 48 HOURS PRIOR TO START OF WORK AND COOPERATE WITH THE INDIVIDUAL INSPECTORS AND TESTING AGENCIES.

INSPECTOR'S RESPONSIBILITIES:

THE INSPECTOR SHALL BE A LICENSED ENGINEER IN THE STATE OF GEORGIA OR PERFORMING APPROPRIATE DUTIES DIRECTLY UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA AND HAVE A THOROUGH UNDERSTANDING OF THE INSPECTION REQUIREMENTS. THE INSPECTOR SHALL BE AN INDIVIDUAL OR INDIVIDUALS CERTIFIED OR EXPERIENCED TO PERFORM SUCH INSPECTIONS IN A PARTICULAR FIELD.

A WEEKLY REPORT OF INSPECTIONS DOCUMENTING REQUIRED INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED. AT THE COMPLETION OF THE INSPECTIONS, THE LICENSED PROFESSIONAL ENGINEER IN CHARGE OF PERFORMING THE INSPECTION SHALL CERTIFY THE FINAL INSPECTION REPORT AND AFFIX HIS/HER SEAL TO THE INSPECTOR'S FINAL REPORT. PROVIDE THREE (3) COPIES OF THIS REPORT TO THE PROJECT ENGINEER.

CAST-IN-PLACE CONCRETE:

CONTRACTOR SHALL PERFORM THE FOLLOWING:

- ESTABLISH CONCRETE MIX DESIGN PROPORTIONS PER ACI 318. SUBMIT THREE COPIES OF THE CONCRETE MIX DESIGNS. INCLUDE THE FOLLOWING:
 - TYPE AND QUANTITIES OF MATERIALS
 - SLUMP
 - AIR CONTENT
 - FRESH UNIT WEIGHT
 - AGGREGATES SIEVE ANALYSIS
 - DESIGN COMPRESSIVE STRENGTH
 - LOCATION OF PLACEMENT IN STRUCTURE
 - METHOD OF PLACEMENT
 - METHOD OF CURING
 - SEVEN-DAY AND 28-DAY COMPRESSIVE STRENGTHS
- SUBMIT A CERTIFICATION FROM EACH MANUFACTURER OR SUPPLIER STATING THAT MATERIALS MEET THE REQUIREMENTS OF THE SPECIFIED ASTM AND ACI STANDARDS.
- SUBMIT CERTIFICATION THAT THE READY-MIXED CONCRETE PLANT COMPLIES WITH THE REQUIREMENTS OF THE NATIONAL READY MIX CONCRETE ASSOCIATION.

INSPECTOR SHALL PERFORM THE FOLLOWING:

REQUIRED INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION			
TYPE	C	P	REFERENCE STANDARD
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318 Ch: 20, 25.2, 25.3, 26.6.1-26.6.3
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 ; b. INSPECT SINGLE PASS FILET WELDS, MAXIMUM 5'16" ; AND A. INSPECT ALL OTHER WELDS.	-	X	AWS D1.4 ACI 318: 26.6.4
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2
4. INSPECT ANCHORS POST -INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS. NOT DEFINED IN 4.a.	X		ACI 318: 17.8.2.4 ACI 318: 17.8.2
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318 Ch: 19, 26.4.3, 26.4.4
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCE; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-	ACI 318: 26.10 ACI 318: 26.10
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: Ch. 26.9
11. VERIFY IN -SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2 (b)

C = CONTINUOUS P = PERIODIC

ADHESIVE ANCHORS FOR ANCHORAGE INTO CONCRETE:

MANUFACTURERS:

- HILTI HIT-RE 500 V3 EPOXY ADHESIVE ANCHORS
- OR AS APPROVED.
 - INJECTABLE TWO-COMPONENT ADHESIVE.
 - HILTI ANCHOR ROD HAS-R 316 STAINLESS STEEL THREADED ROD COMPLYING WITH ASTM F593 CONDITION CW.
 - ADHESIVE ANCHORAGE SYSTEM SHALL BE SEISMIC QUALIFIED WITH CURRENT ICC-ES ESR REPORT (ICC-ES ESR 3814).
 - INSTALLERS TO BE TRAINED BY ANCHOR MANUFACTURER.
 - 10% OF ALL ADHESIVE ANCHORS TO BE LOAD TESTED, AS INSTALLED IN FIELD, TO ENSURE ALLOWABLE MANUFACTURER LOADS ARE ACHIEVED.


10/11/2022 9:05:22 PM BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2 R21.rvt

COPYRIGHT: ARCADIS U.S., INC. 2022			
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT			
NO.	DATE	ISSUED FOR	BY
3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
1	JULY 2022	30% DESIGN SUBMITTAL	CG

SEALS
100% SUBMITTAL



2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com



ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

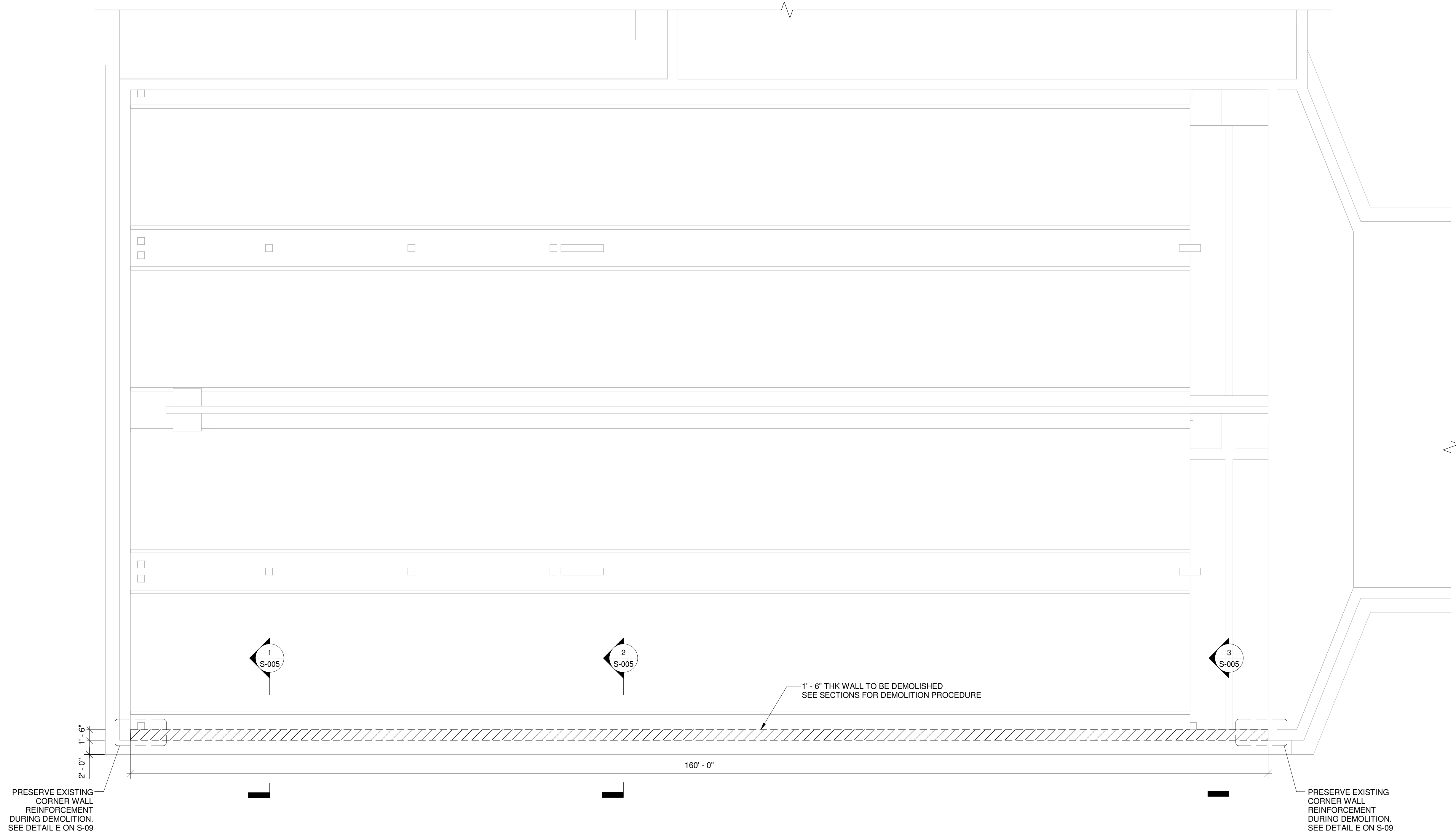
SHEET TITLE
STRUCTURAL

STRUCTURAL QUALITY ASSURANCE

DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	V. SRIPAL
CHECKED BY:	H. HOBI

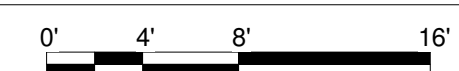
SCALE:	NONE
S-002	
SHEET	3 OF 13

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2_R21.rvt



SEDIMENTATION BASIN 2 BOTTOM DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
- ALL THE EXISTING EQUIPMENT PARTS AND PIECES (BRACKETS, SPROCKETS, SHAFTS, AND MISCELLANEOUS PARTS) WILL HAVE TO BE COMPLETELY REMOVED BEFORE THE WALL DEMOLITION BEGINS.
- AFTER EQUIPMENT REMOVAL, ALL MEMBER ENDS THAT ARE CONNECTED TO THE WALL INSIDE THE BASIN SHALL BE SUPPORTED WITH A SHORING SYSTEM DESIGNED BY CONTRACTOR BEFORE DEMOLISHING THEIR CONNECTIONS TO THE WALL. THESE MEMBERS INCLUDE THREE CONCRETE BEAMS, AN ALUMINUM CATWALK, AND A CONCRETE SIDEWALK. NO WORK SHALL BE ALLOWED TO BE EXECUTED INSIDE THE BASIN WHILE THE SHORING SYSTEM IS IN PLACE. SHORING SHALL NOT BE REMOVED UNTIL AFTER THE MEMBERS FINAL CONNECTIONS TO THE NEW WALL HAVE BEEN COMPLETED.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING AS NEEDED TO ENSURE STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION.

COPYRIGHT: ARCADIS U.S., INC. 2022	
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT	
NO.	DATE
3	OCTOBER 2022
2	SEPTEMBER 2022
1	JULY 2022

ISSUED FOR	BY
100% SUBMITTAL	

ARCADIS BPA
A Joint Venture

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

RESURGENS
1811 ATLANTA, GA 30318

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

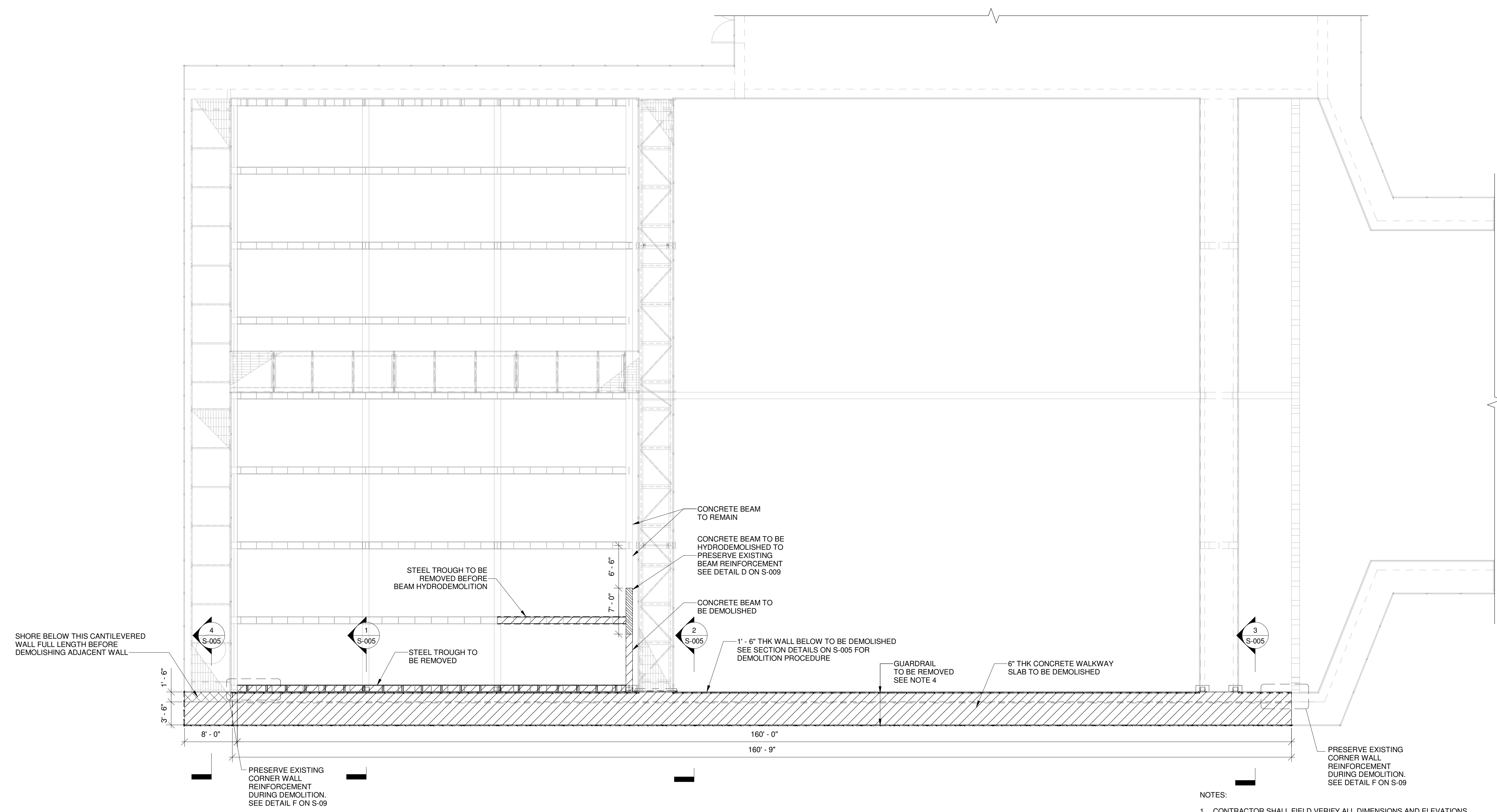
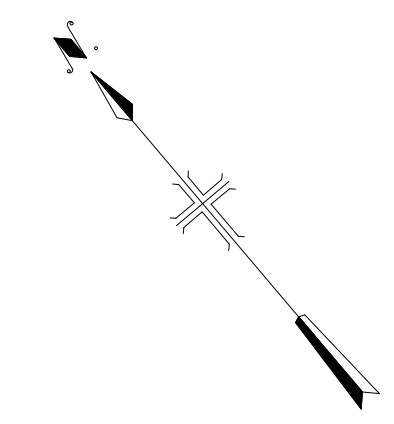
SHEET TITLE
STRUCTURAL

**SEDIMENTATION BASIN 2
BOTTOM DEMOLITION PLAN**

DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:	AS INDICATED
S-003	
SHEET	4 OF 13

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2_R21.rvt



SEDIMENTATION BASIN 2 TOP DEMOLITION PLAN

SCALE: 1/8" = 1'-0" 0' 4' 8' 16'

- NOTES:
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
 - ALL THE EXISTING EQUIPMENT PARTS AND PIECES (BRACKETS, SPROCKETS, SHAFTS, AND MISCELLANEOUS PARTS) WILL HAVE TO BE COMPLETELY REMOVED BEFORE THE WALL DEMOLITION BEGINS.
 - AFTER EQUIPMENT REMOVAL, ALL MEMBER ENDS THAT ARE CONNECTED TO THE WALL INSIDE THE BASIN SHALL BE SUPPORTED WITH A SHORING SYSTEM DESIGNED BY CONTRACTOR BEFORE DEMOLISHING THEIR CONNECTIONS TO THE WALL. THESE MEMBERS INCLUDE THREE CONCRETE BEAMS, AN ALUMINUM CATWALK, AND A CONCRETE SIDEWALK. NO WORK SHALL BE ALLOWED TO BE EXECUTED INSIDE THE BASIN WHILE THE SHORING SYSTEM IS IN PLACE. SHORING SHALL NOT BE REMOVED UNTIL AFTER THE MEMBERS FINAL CONNECTIONS TO THE NEW WALL HAVE BEEN COMPLETED.
 - CONTRACTOR TO VERIFY CONDITION OF EXISTING GUARDRAIL PER OSHA AND IBC STANDARD CODES FOR POTENTIAL REINSTALLATION AFTER THE CONSTRUCTION OF NEW WALL AND WALKWAY SLAB. CONTRACTOR TO SUBMIT A REPORT STATING EXISTING GUARDRAIL COMPLIES WITH OSHA AND IBC CODE REQUIREMENTS AND LOADS.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING AS NEEDED TO ENSURE STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION.

COPYRIGHT: ARCADIS U.S., INC. 2022			
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT			
NO.	DATE	ISSUED FOR	BY
3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
1	JULY 2022	30% DESIGN SUBMITTAL	CG

SEALS	
100% SUBMITTAL	

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

A Joint Venture

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

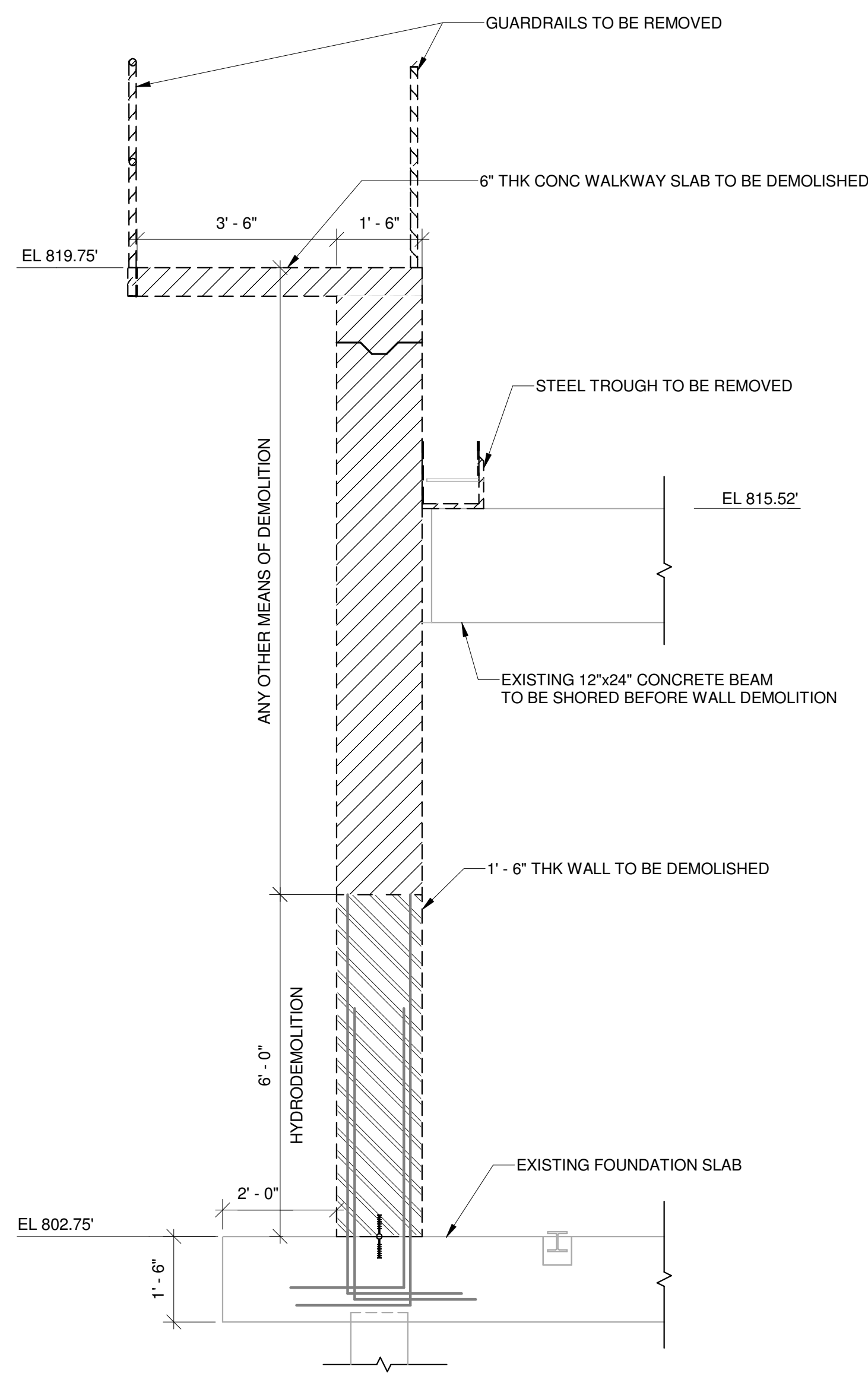
SHEET TITLE
STRUCTURAL

SEDIMENTATION BASIN 2 TOP DEMOLITION PLAN

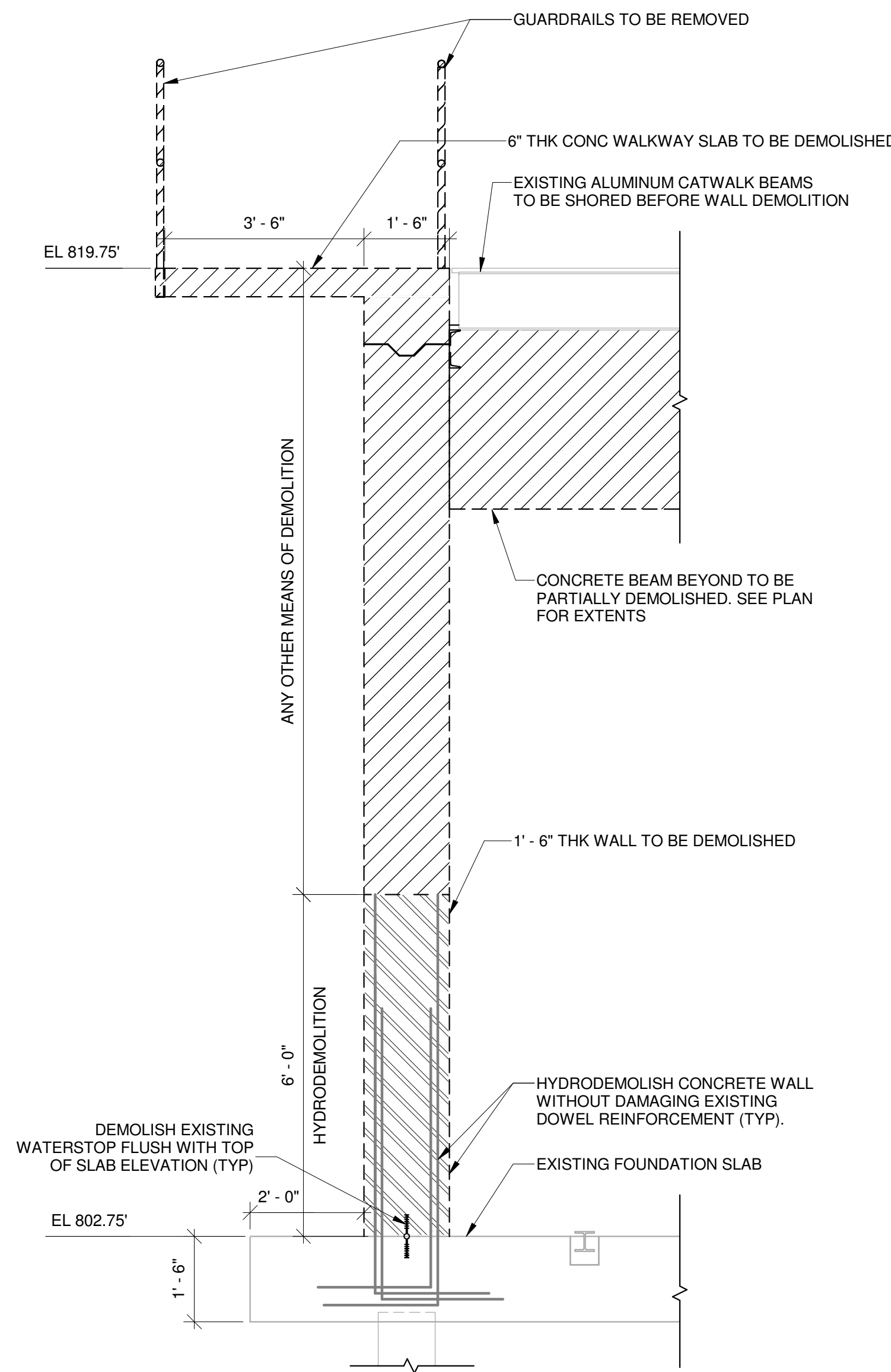
DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:	AS INDICATED
S-004	
SHEET	5 OF 13

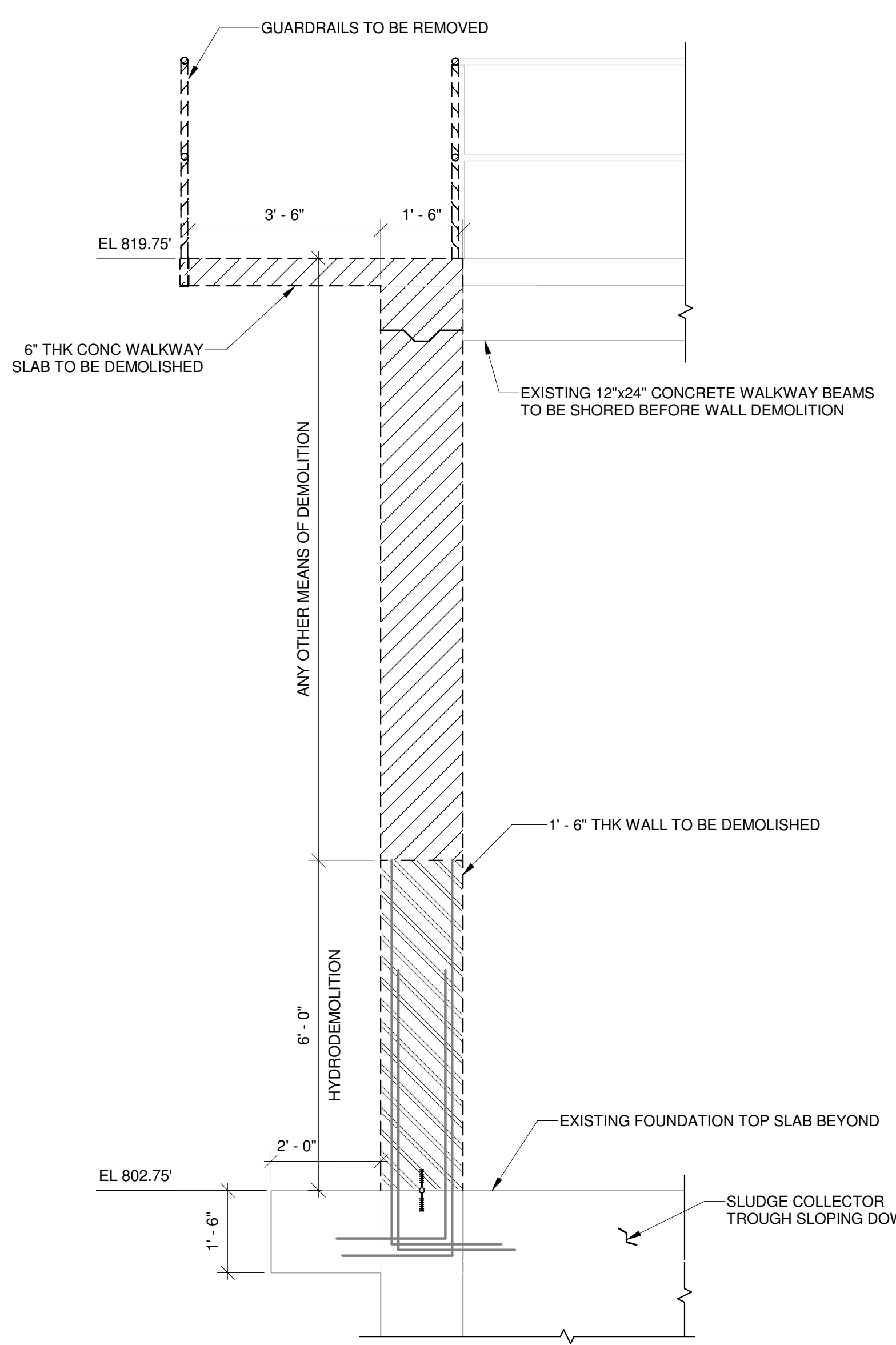
BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2 R21.rvt



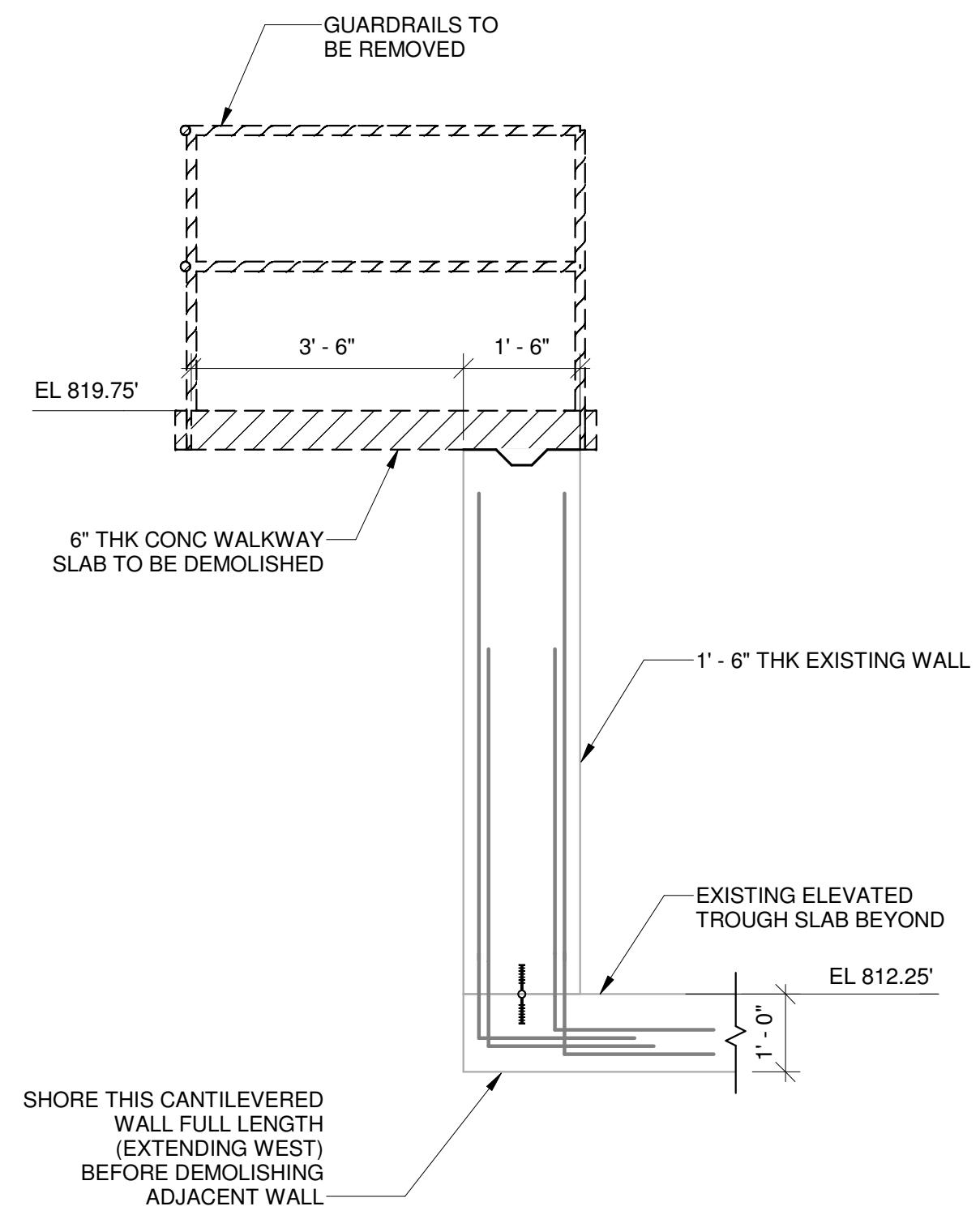
1 SECTION
S-003 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



2 SECTION
S-003 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



3 SECTION
S-003 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



4 SECTION
S-004 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'

NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
- ALL THE EXISTING EQUIPMENT PARTS AND PIECES (BRACKETS, SPROCKETS, SHAFTS, AND MISCELLANEOUS PARTS) WILL HAVE TO BE COMPLETELY REMOVED BEFORE THE WALL DEMOLITION BEGINS.
- AFTER EQUIPMENT REMOVAL, ALL MEMBER ENDS THAT ARE CONNECTED TO THE WALL INSIDE THE BASIN SHALL BE SUPPORTED WITH A SHORING SYSTEM DESIGNED BY CONTRACTOR BEFORE DEMOLISHING THEIR CONNECTIONS TO THE WALL. THESE MEMBERS INCLUDE THREE CONCRETE BEAMS, AN ALUMINUM CATWALK, AND A CONCRETE SIDEWALK. NO WORK SHALL BE ALLOWED TO BE EXECUTED INSIDE THE BASIN WHILE THE SHORING SYSTEM IS IN PLACE. SHORING SHALL NOT BE REMOVED UNTIL AFTER THE MEMBERS FINAL CONNECTIONS TO THE NEW WALL HAVE BEEN COMPLETED.
- CONTRACTOR TO VERIFY CONDITION OF EXISTING GUARDRAIL PER OSHA AND IBC STANDARD CODES FOR POTENTIAL REINSTALLATION AFTER THE CONSTRUCTION OF NEW WALL AND WALKWAY SLAB. CONTRACTOR TO SUBMIT A REPORT STATING EXISTING GUARDRAIL COMPLIES WITH OSHA AND IBC CODE REQUIREMENTS AND LOADS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING AS NEEDED TO ENSURE STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION.
- CLEAN EXPOSED REINFORCEMENT AFTER HYDRODEMOLITION TO REMOVE ANY CORROSION AND/OR IMPURITIES.

COPYRIGHT: ARCADIS U.S., INC. 2022		SEALS	
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT		100% SUBMITTAL	
NO.	DATE	ISSUED FOR	BY
3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
1	JULY 2022	30% DESIGN SUBMITTAL	CG

100% SUBMITTAL

ARCADIS BPA
A Joint Venture

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

RESURGENS
1864 ATLANTA, GA 1864

EAST AREA WATER QUALITY CONTROL FACILITY IMPROVEMENTS

W.01.02.0085

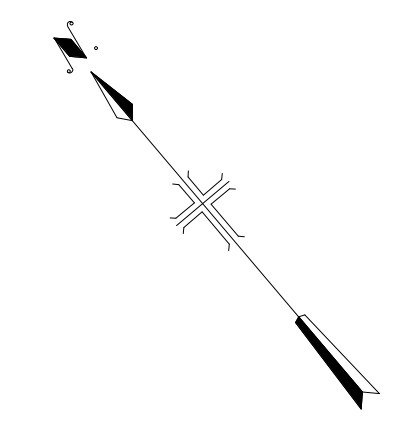
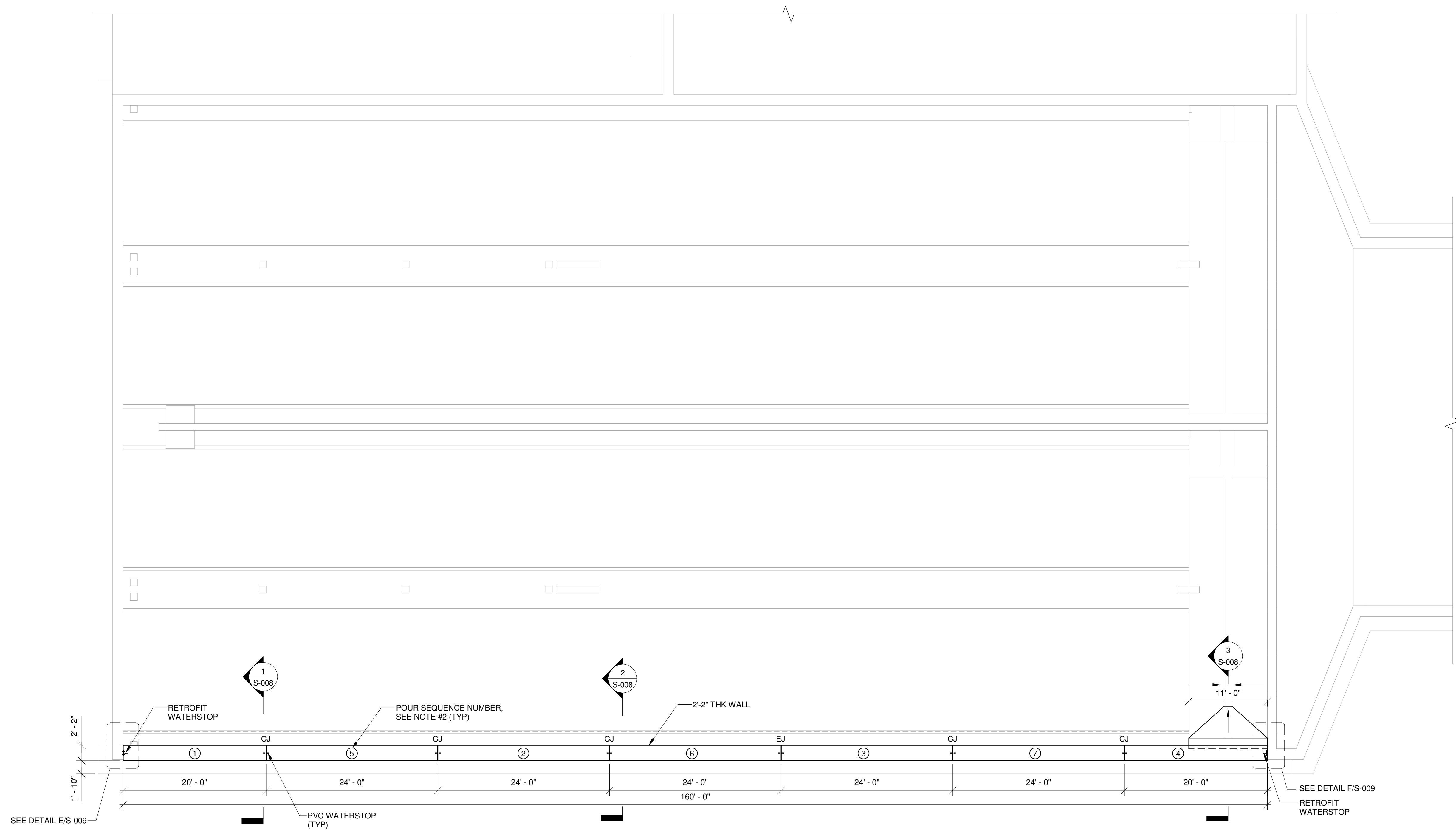
SHEET TITLE
STRUCTURAL

**SEDIMENTATION BASIN 2
DEMOLITION SECTIONS**

DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:	AS INDICATED
S-005	
SHEET	6 OF 13

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2_R21.rvt



SEDIMENTATION BASIN 2 BOTTOM PLAN

SCALE: 1/8" = 1'-0"

- NOTES:
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
 - POUR SEQUENCE : 1,2,3 & 4 TO BE POURED FIRST AND 5,6,& 7 TO BE POURED LATER.

10/11/2022 9:05:25 PM

COPYRIGHT: ARCADIS U.S., INC. 2022			
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT			
NO.	DATE	ISSUED FOR	BY
3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
1	JULY 2022	30% DESIGN SUBMITTAL	CG

SEALS

100% SUBMITTAL

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

SHEET TITLE
STRUCTURAL

**SEDIMENTATION BASIN 2
BOTTOM PLAN**

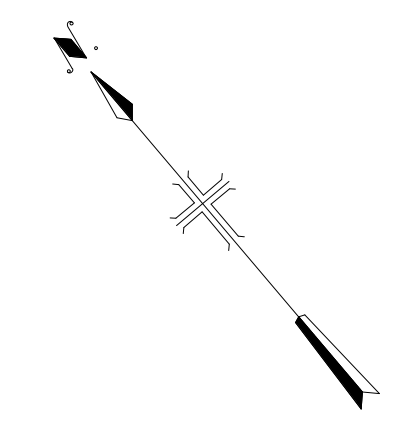
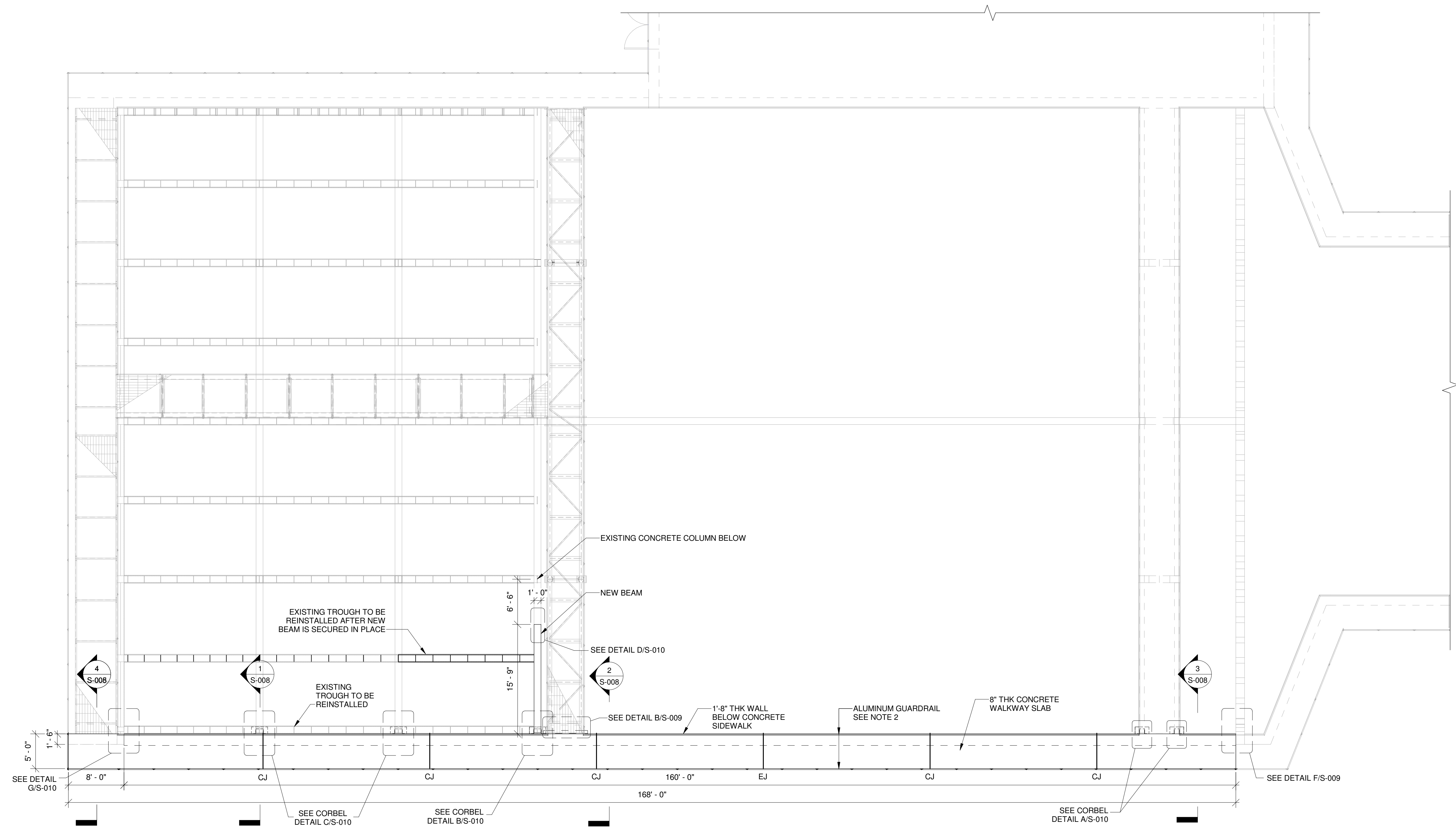
DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:
AS INDICATED

S-006

SHEET 7 OF 13

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2_R21.rvt



SEDIMENTATION BASIN 2 TOP PLAN

SCALE: 1/8" = 1'-0"

- NOTES:
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
 - CONTRACTOR TO VERIFY CONDITION OF EXISTING GUARDRAIL PER OSHA AND IBC STANDARD CODES FOR POTENTIAL REINSTALLATION AFTER THE CONSTRUCTION OF NEW WALL AND WALKWAY SLAB. CONTRACTOR TO SUBMIT A REPORT STATING EXISTING GUARDRAIL COMPLIES WITH OSHA AND IBC CODE REQUIREMENTS AND LOADS.
 - CONSTRUCTION JOINTS AND EXPANSION JOINTS TO MATCH WALL JOINTS LOCATIONS.

COPYRIGHT: ARCADIS U.S., INC. 2022		SEALS	
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT		100% SUBMITTAL	
NO.	DATE	ISSUED FOR	BY
3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
1	JULY 2022	30% DESIGN SUBMITTAL	CG

100% SUBMITTAL

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

SHEET TITLE
STRUCTURAL
**SEDIMENTATION BASIN 2
TOP PLAN**

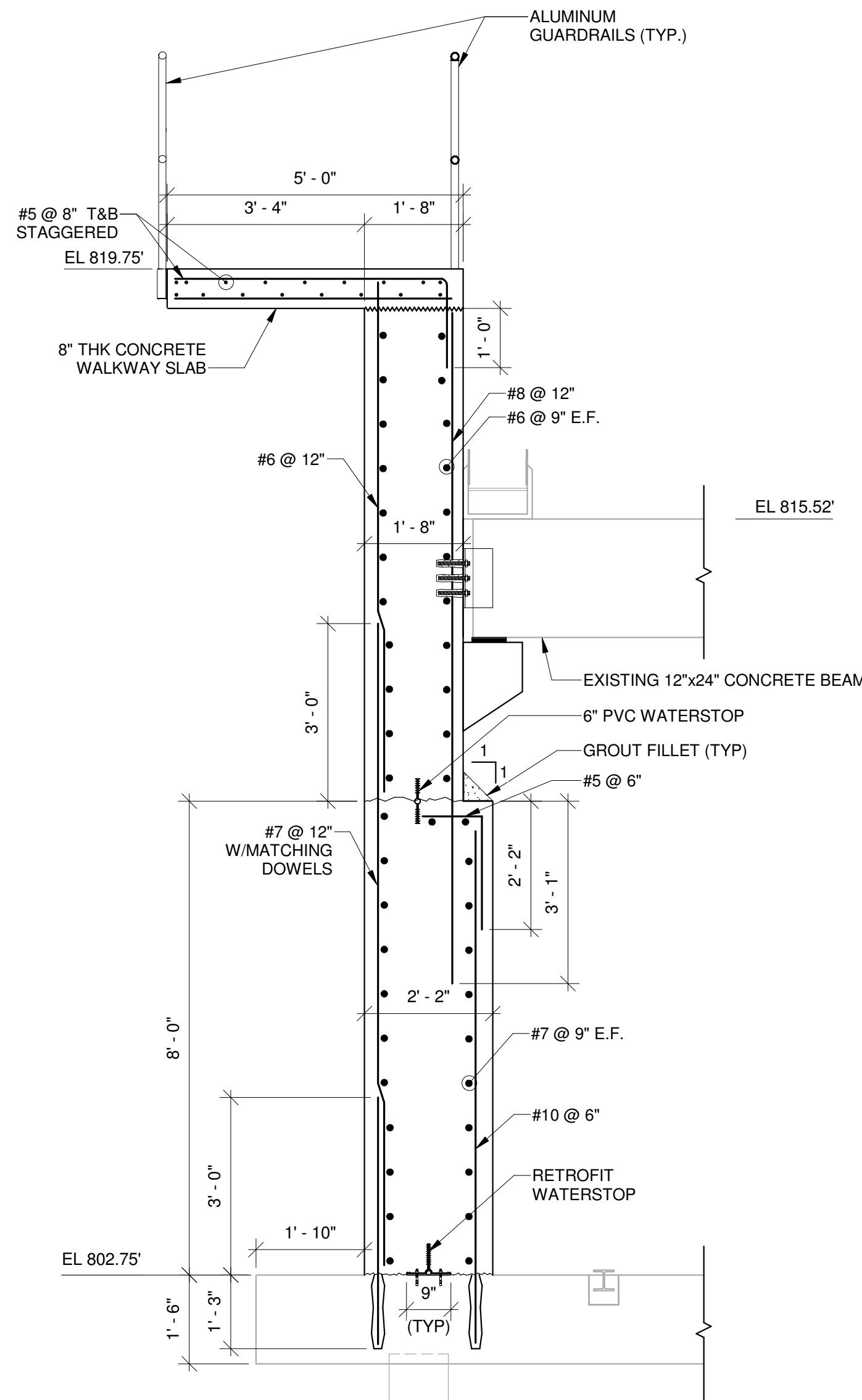
DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:
AS INDICATED

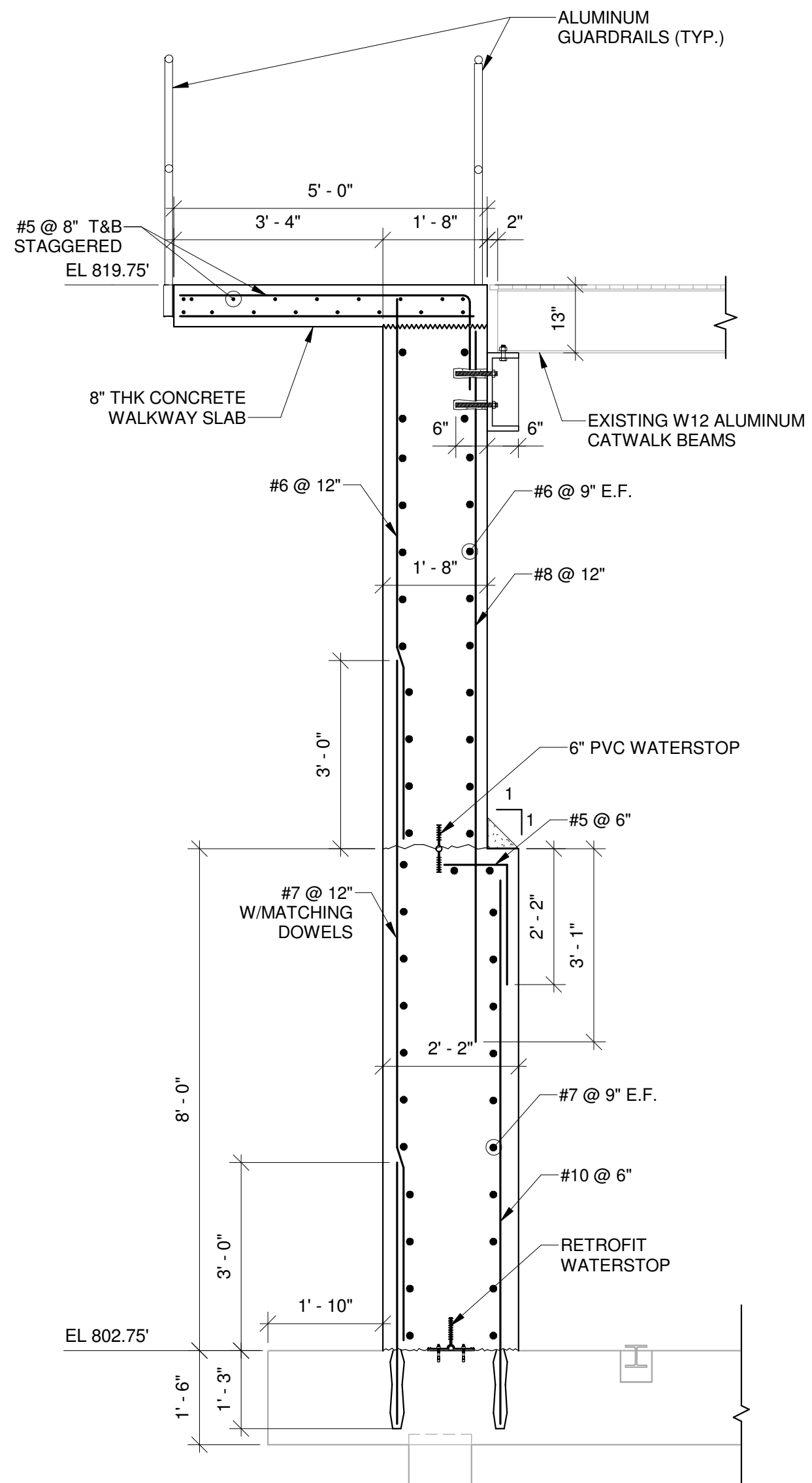
S-007

SHEET 8 OF 13

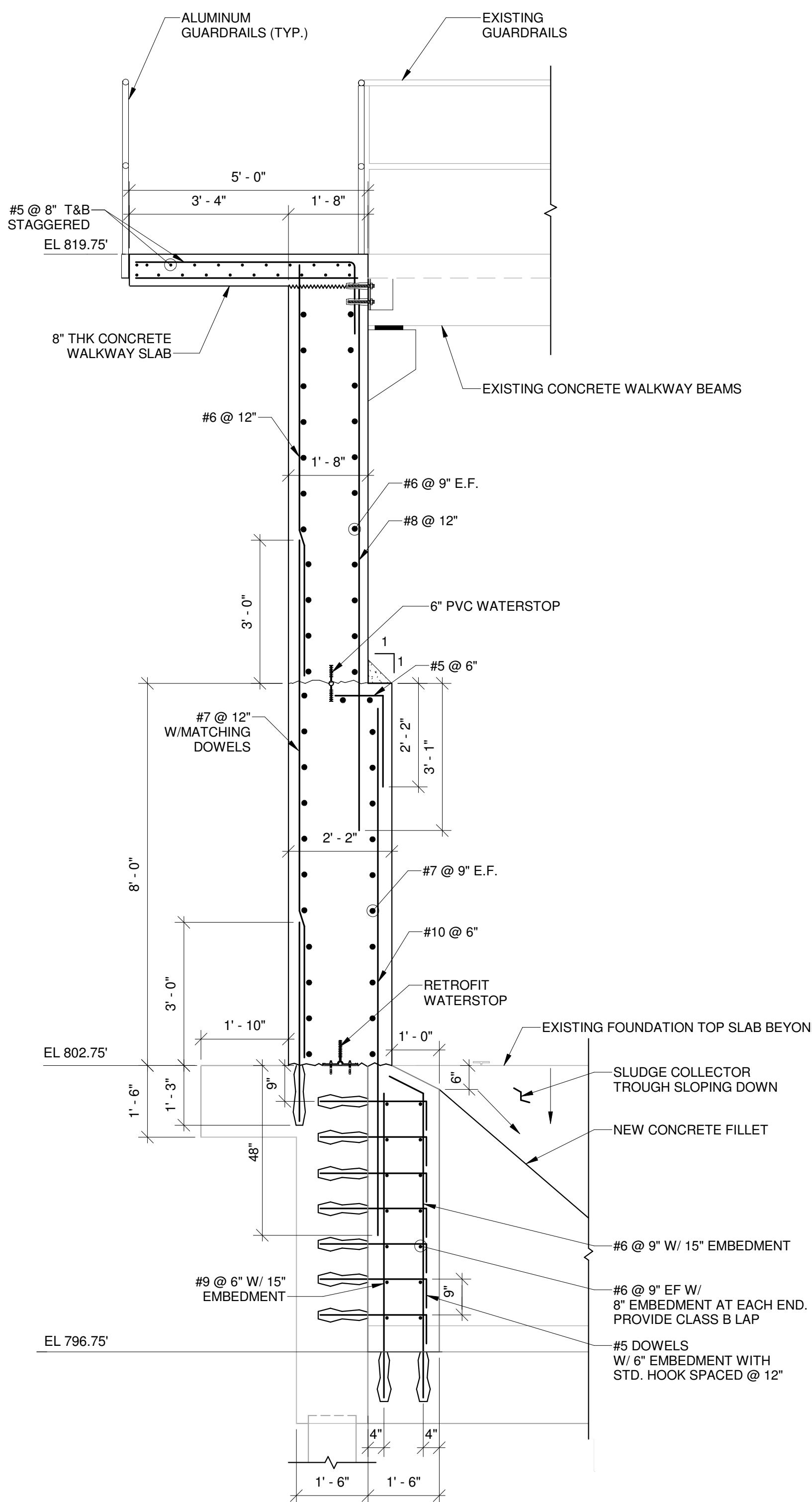
BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2 R21.rvt



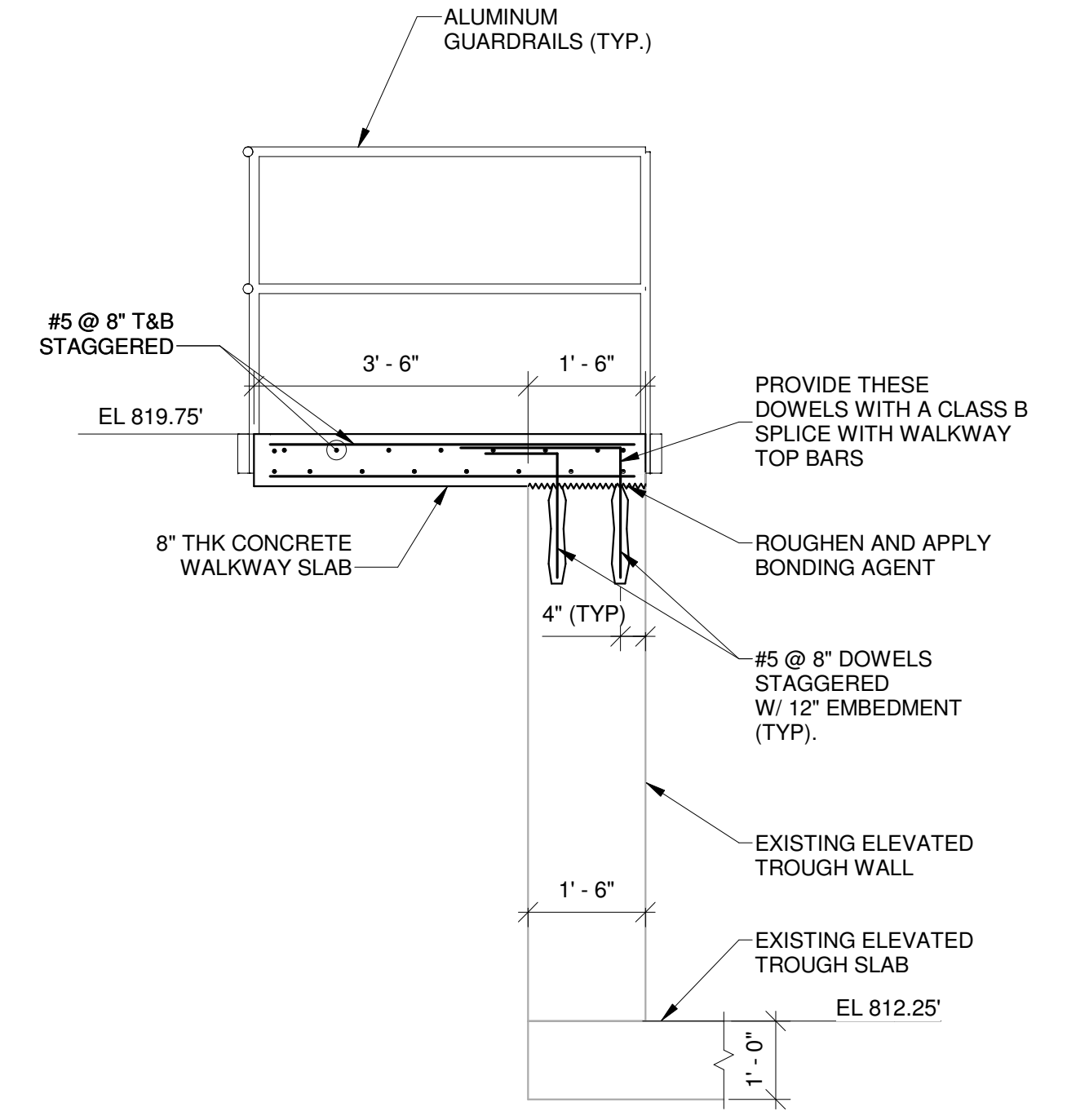
1 SECTION
S-006 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



2 SECTION
S-006 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



3 SECTION
S-006 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'



4 SECTION
S-007 SCALE: 1/2" = 1'-0"
0' 1' 2' 4'

- NOTES:
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
 - EXISTING DOWEL TO BE PRESERVED ARE NOT SHOWN FOR CLARITY.
 - AVOID DRILLING THROUGH EXISTING WALL AND FOUNDATION SLAB REINFORCEMENT. MOVE SLIGHTLY IF NEEDED. RECOMMENDED USE OF GPR TO LOCATE EXISTING REINFORCEMENT.
 - FOLLOW EPOXY ADHESIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

COPYRIGHT: ARCADIS U.S., INC. 2022			
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT			
NO.	DATE	ISSUED FOR	BY
3	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
2	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG
1	JULY 2022	30% DESIGN SUBMITTAL	CG

SEALS

100% SUBMITTAL

ARCADIS BPA
A Joint Venture

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

RESURGENS
1811 ATLANTA, GA 30318

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

SHEET TITLE
STRUCTURAL

SEDIMENTATION BASIN 2 SECTIONS

DATE: OCTOBER 2022

PROJECT NO.: 30030286

DESIGNED BY: C. GALLO/ P. LUNKAD

DRAWN BY: K. RAGHAVI

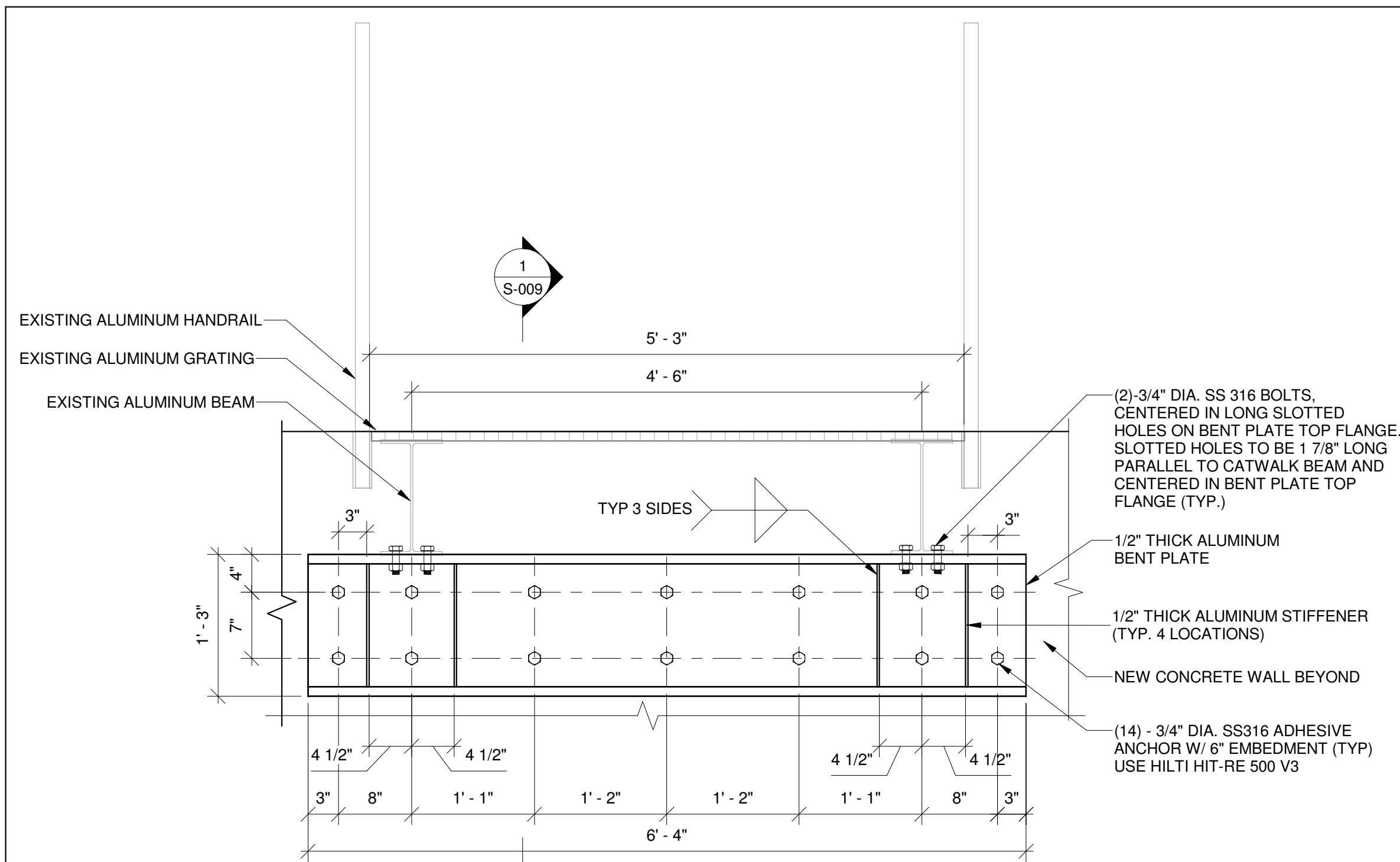
CHECKED BY: H. HOBI

SCALE:
AS INDICATED

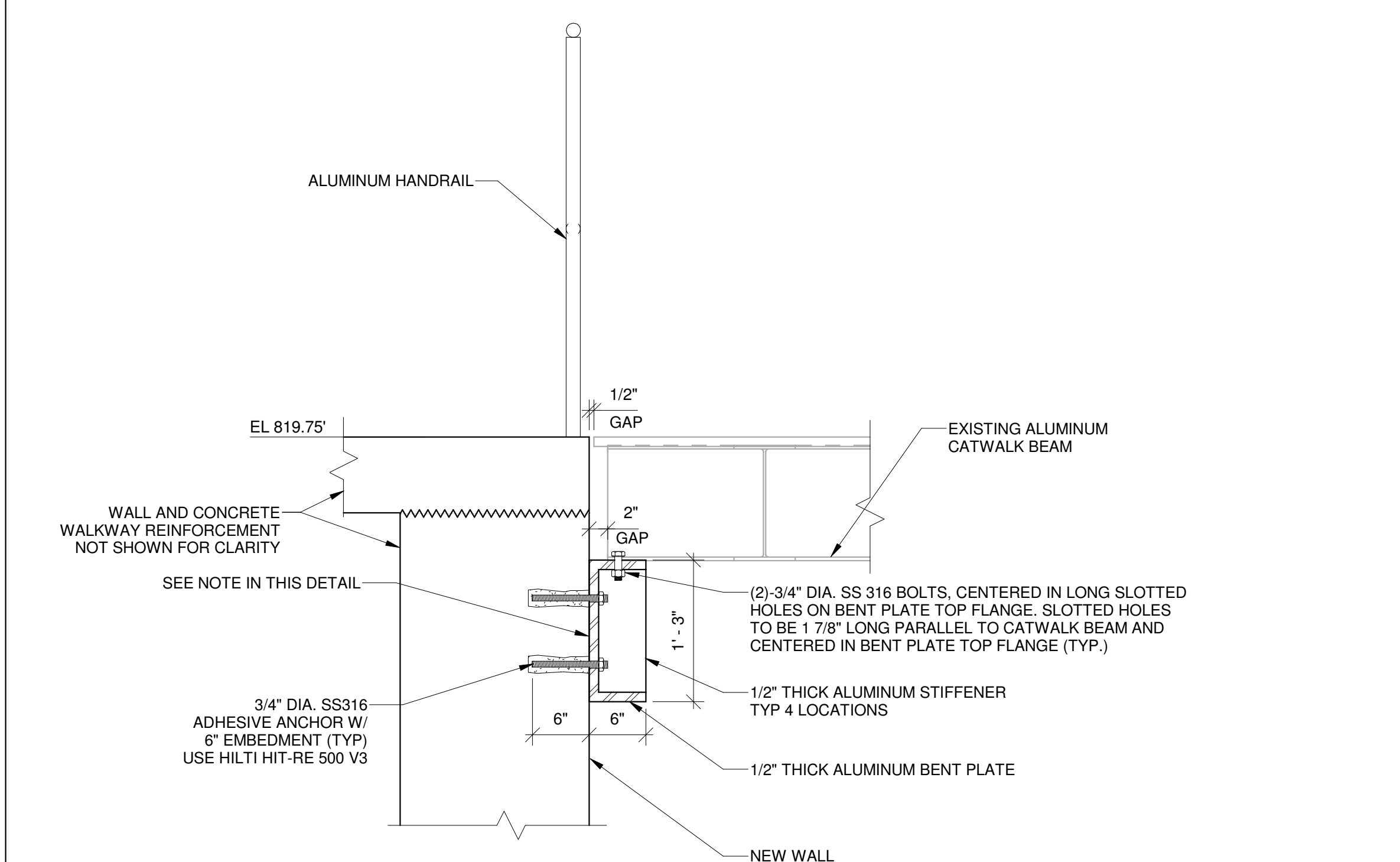
S-008

SHEET 9 OF 13

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2 R21.rvt



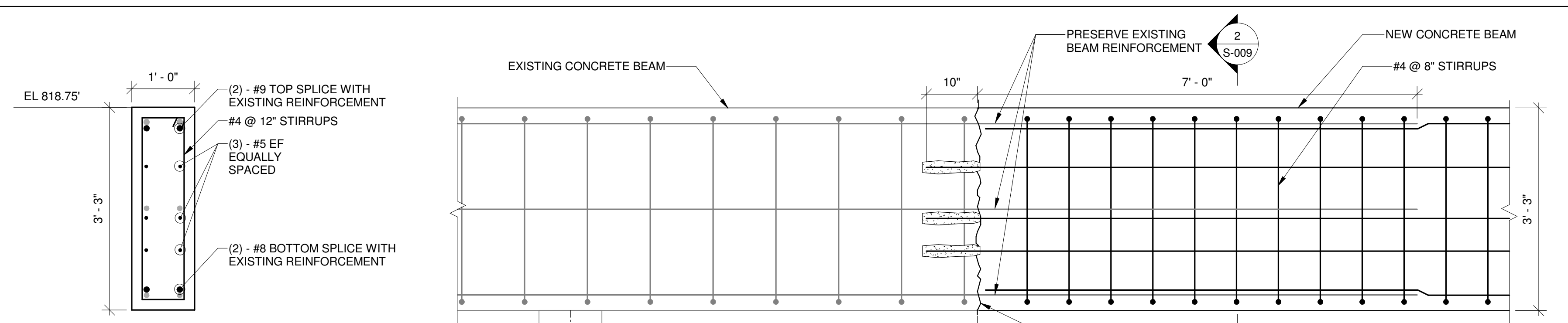
ELEVATION
SCALE: 1" = 1'-0"



SECTION
SCALE: 1" = 1'-0"

B DETAIL
SCALE: 1" = 1'-0"

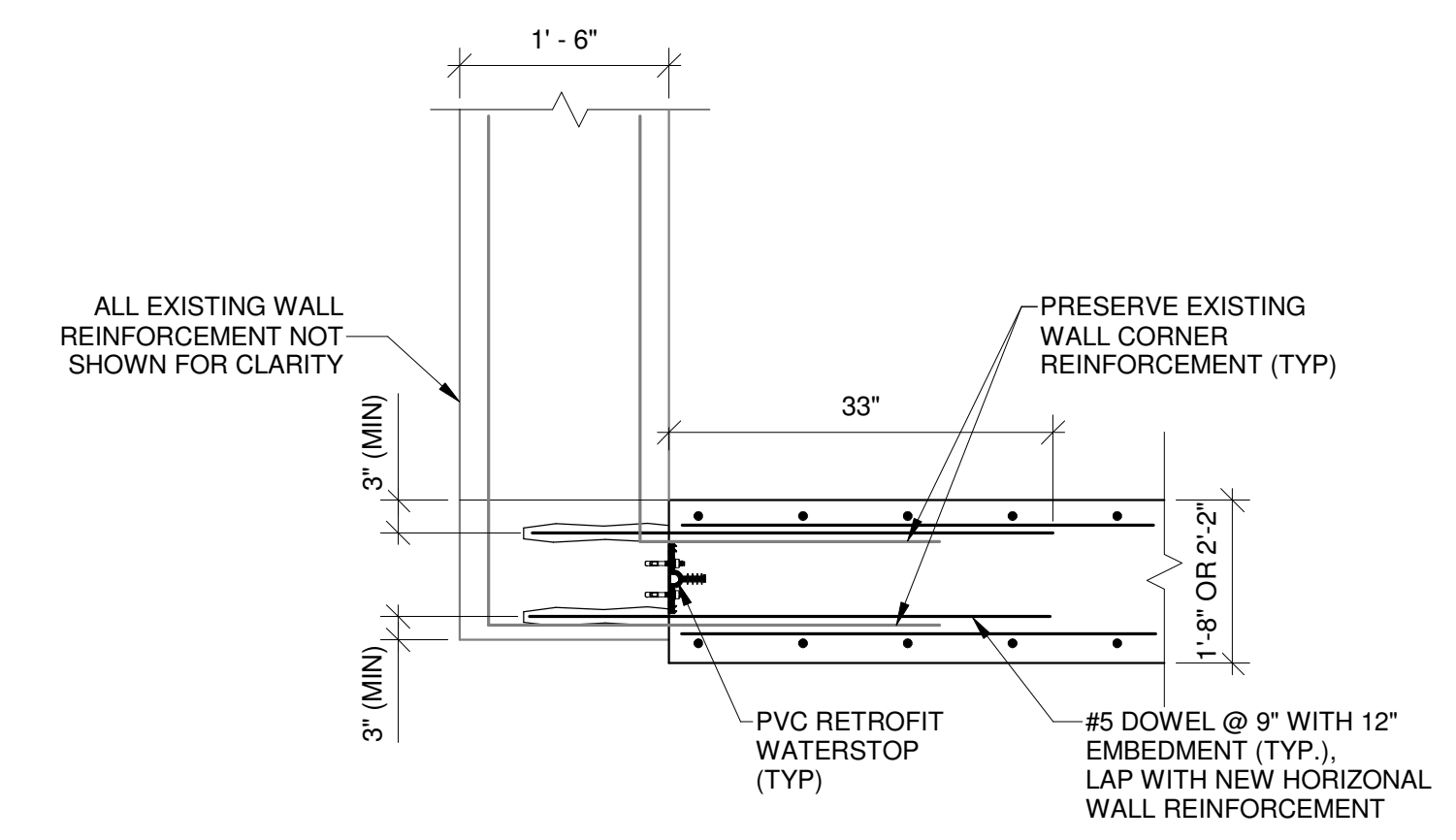
NOTE:
1. ALL ALUMINUM SURFACE IN CONTACT WITH CONCRETE OR A DISSIMILAR MATERIAL SHALL HAVE A SHOP COAT OF HEAVY BITUMASTIC



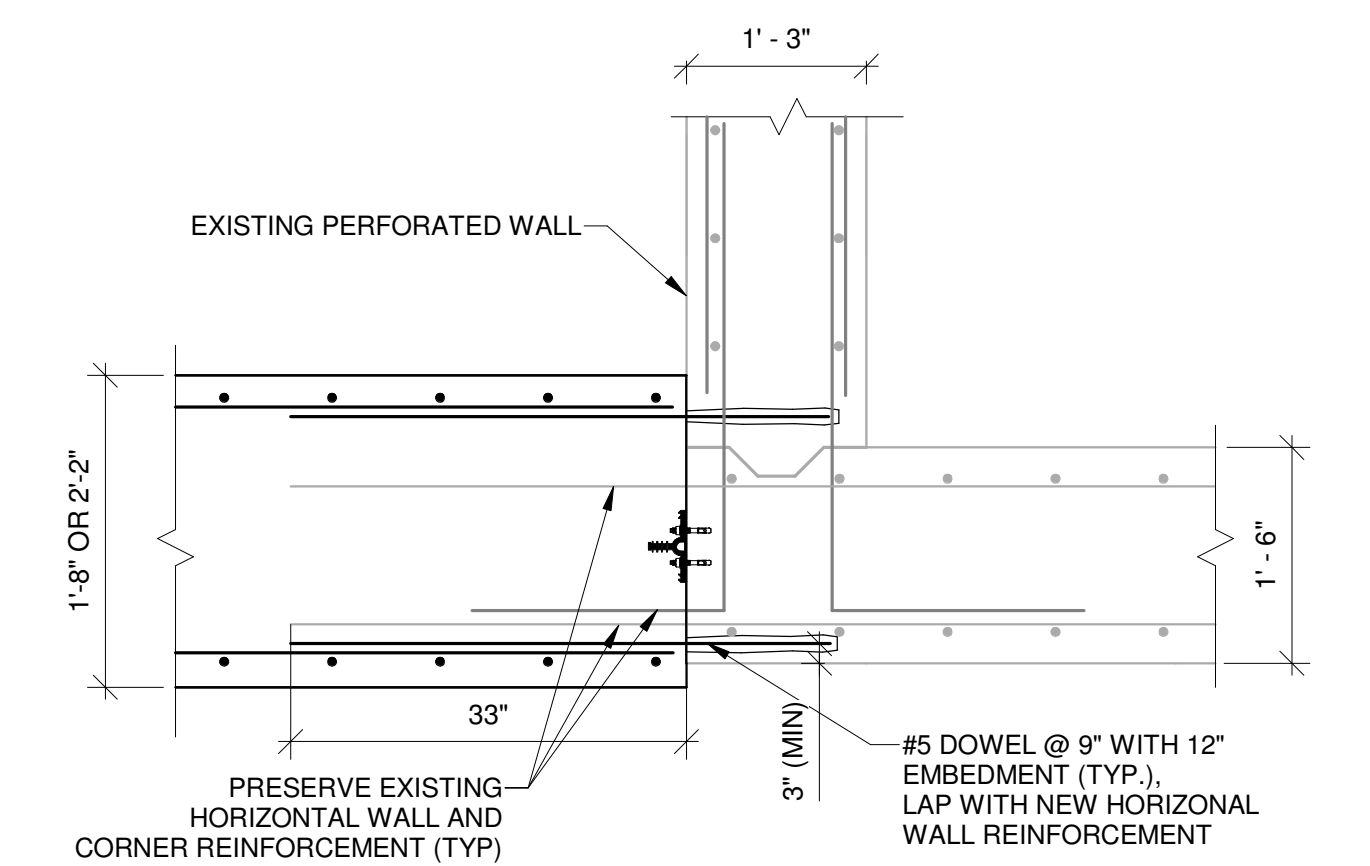
SECTION
SCALE: 3/4" = 1'-0"

ELEVATION
SCALE: 3/4" = 1'-0"

D BEAM CONNECTION DETAIL
S-007

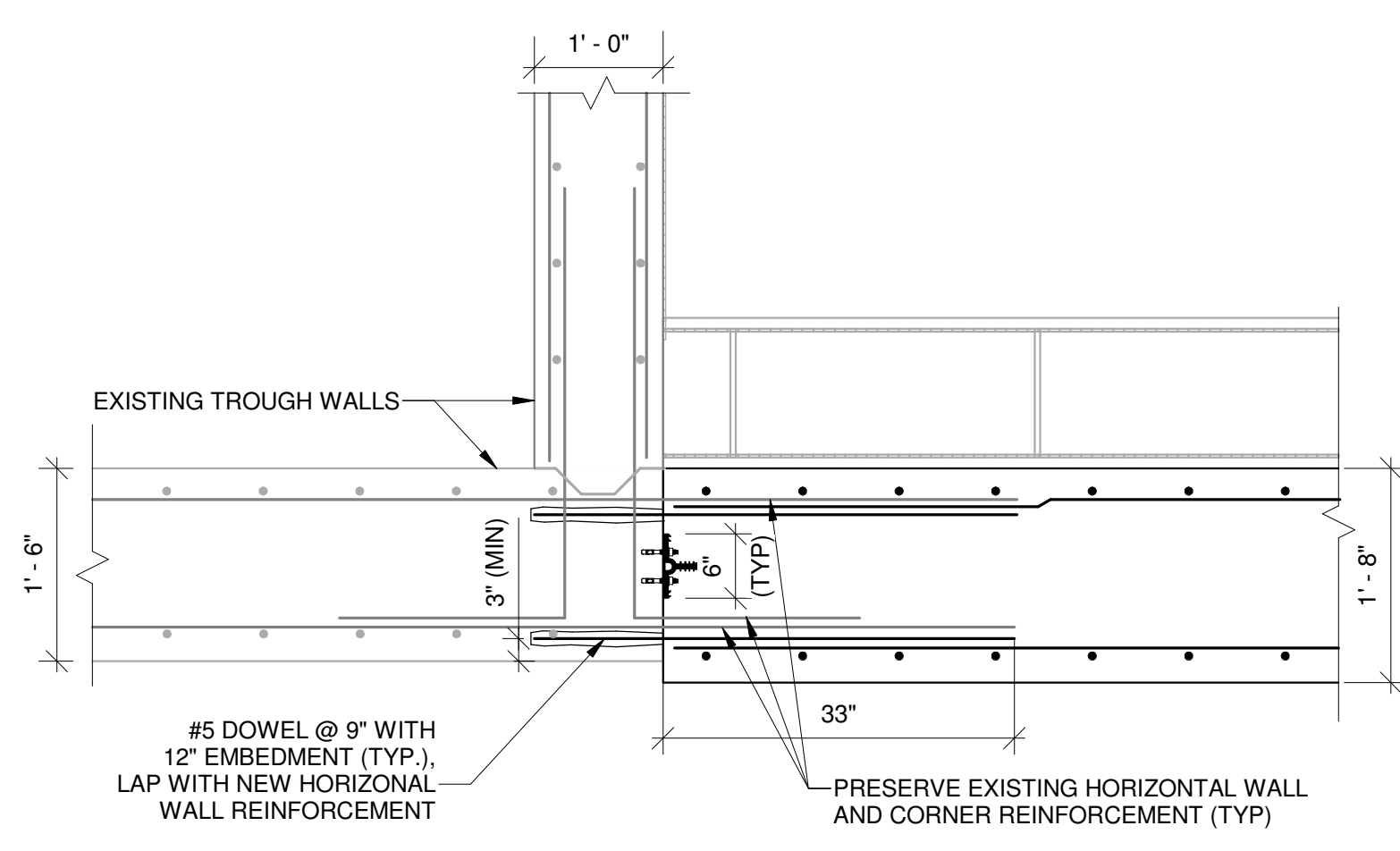


DETAIL
SCALE: 3/4" = 1'-0"



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

NOTES:
1. EXISTING WALL CORNER REINFORCEMENT SHOWN IS BASED ON RECORD DRAWINGS AND SHALL BE VERIFIED BY THE CONTRACTOR. COORDINATE RETROFIT WATERSTOP PLACEMENT BASED ON WALL REINFORCEMENT OBSERVED AFTER HYDRO-BLASTING.



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

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS.
2. CHIP EXISTING CONCRETE WALL OR BEAM SURFACES WHERE NECESSARY TO EXPOSE EXISTING WALL REINFORCEMENT AS SHOWN.
3. CLEAN EXPOSED CONCRETE TO FREE SURFACE OF OIL, GREASE, CORROSION, DIRT DEPOSITS, DUST, LAITANCE OR OTHER SURFACE IMPURITIES.
4. CLEAN ALL EXISTING CUT/EXPOSED REINFORCEMENT TO REMOVE ANY CORROSION OR OTHER IMPURITIES.
5. AVOID DRILLING THROUGH EXISTING WALL AND BEAM REINFORCEMENT. MOVE SLIGHTLY IF NEEDED. RECOMMENDED USE OF GPR TO LOCATE EXISTING REINFORCEMENT.
6. FOLLOW EPOXY ADHESIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

COPYRIGHT: ARCADIS U.S., INC. 2022		SEALS	
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT		100% SUBMITTAL	
NO.	DATE	ISSUED FOR	BY
2	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
1	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG

SEALS	
100% SUBMITTAL	

ARCADIS BPA
A Joint Venture

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

RESURGENS
1811 ATLANTA, GA 30318

EAST AREA WATER QUALITY CONTROL FACILITY IMPROVEMENTS

W.01.02.0085

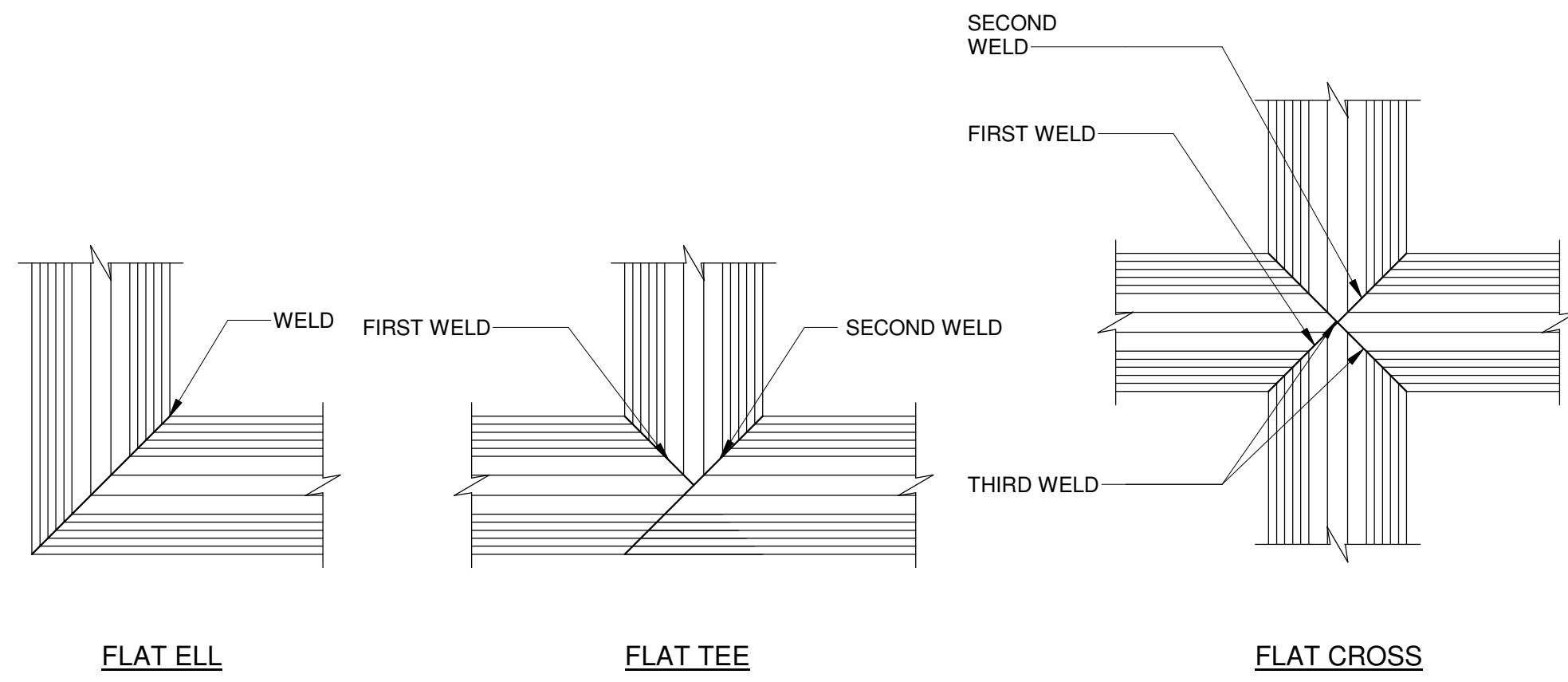
SHEET TITLE
STRUCTURAL

SEDIMENTATION BASIN 2 CONNECTION DETAILS I

DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:	AS INDICATED
S-009	
SHEET	10 OF 13

BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2_R21.rvt 10/11/2022 9:05:29 PM

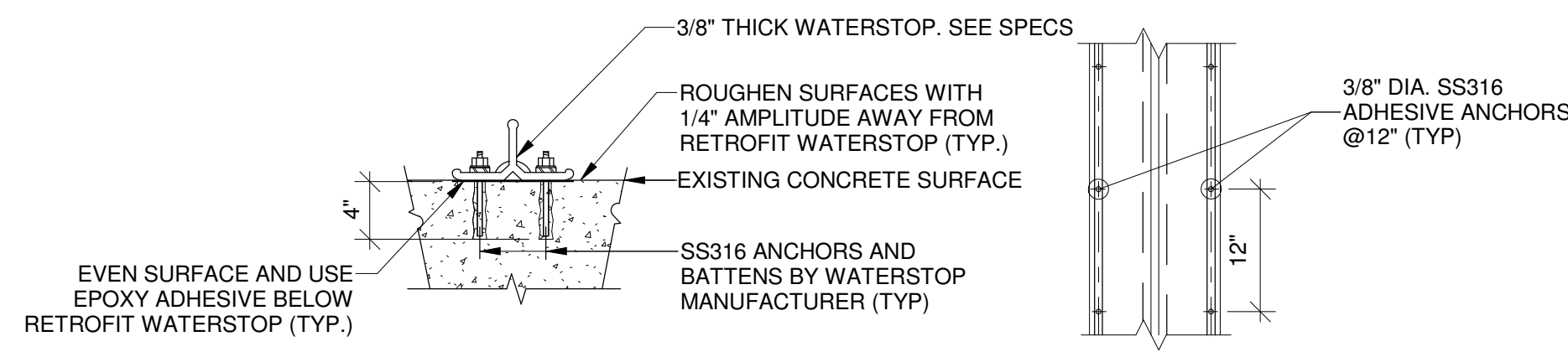


FLAT ELL FLAT TEE FLAT CROSS

WATERSTOP JOINTS

SCALE : NTS

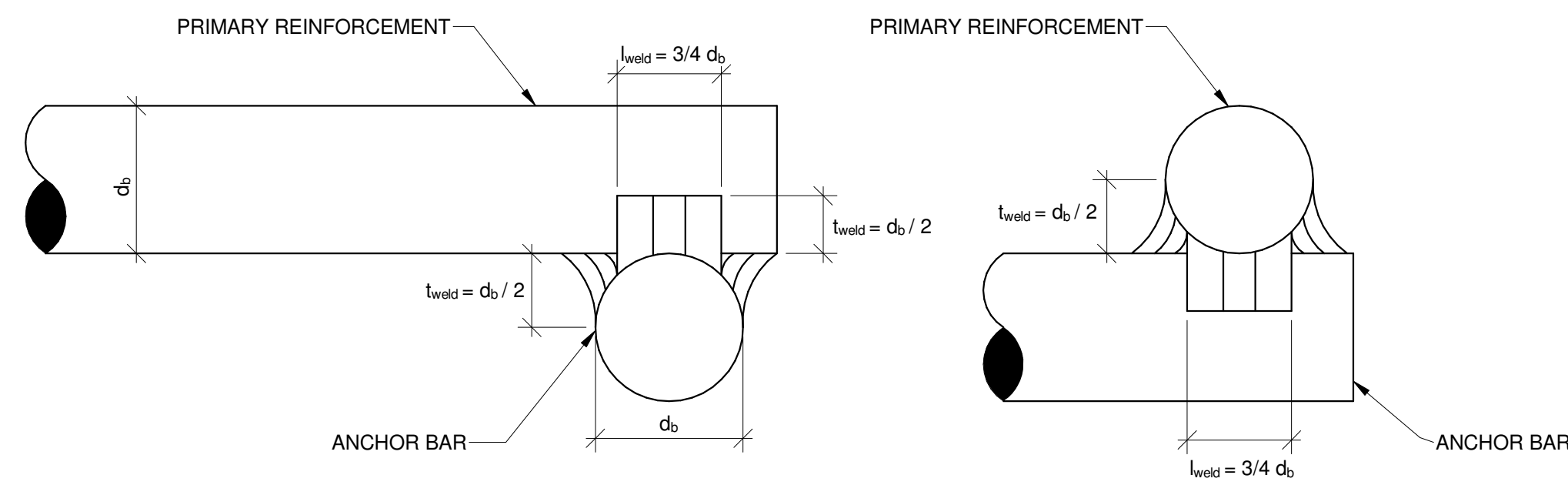
- NOTES:
1. ALL WELDS SHALL BE PER WATERSTOP MANUFACTURER'S RECOMMENDATIONS AND INCLUDE WELDS BETWEEN REGULAR WATERSTOPS AND BETWEEN RETROFIT/REGULAR WATERSTOPS.
 2. IT IS RECOMMENDED THAT ABOVE WATERSTOP JOINTS TO BE ASSEMBLED AT MANUFACTURER'S SHOP.



- NOTE :
1. SEE WATERSTOP DIMENSIONS AS SHOWN ON THE DRAWING

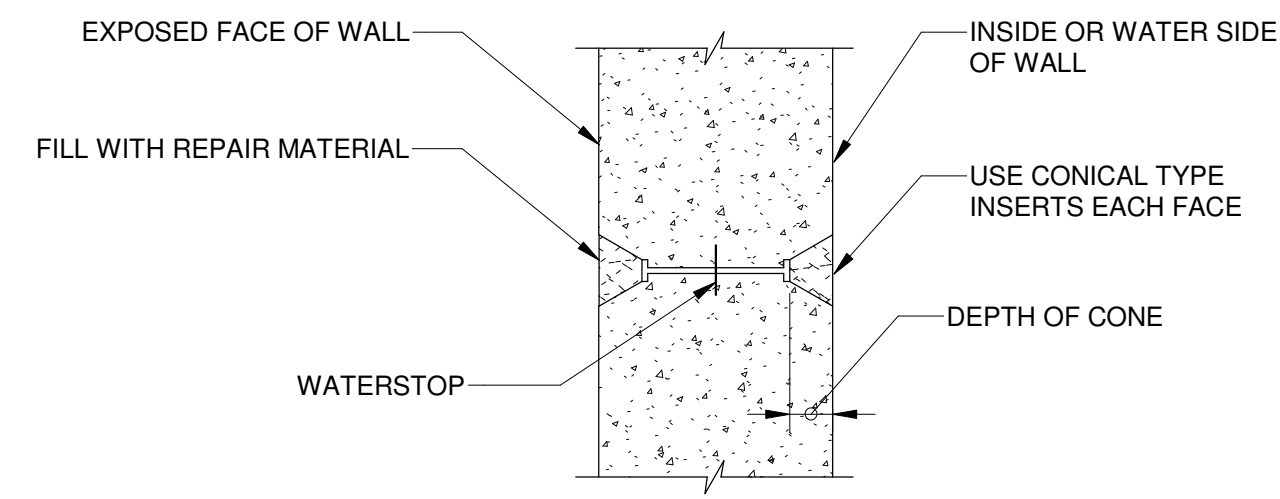
WATERSTOP BETWEEN NEW AND EXISTING CONCRETE

SCALE : NTS



TYPICAL CORBEL BAR WELD DETAIL

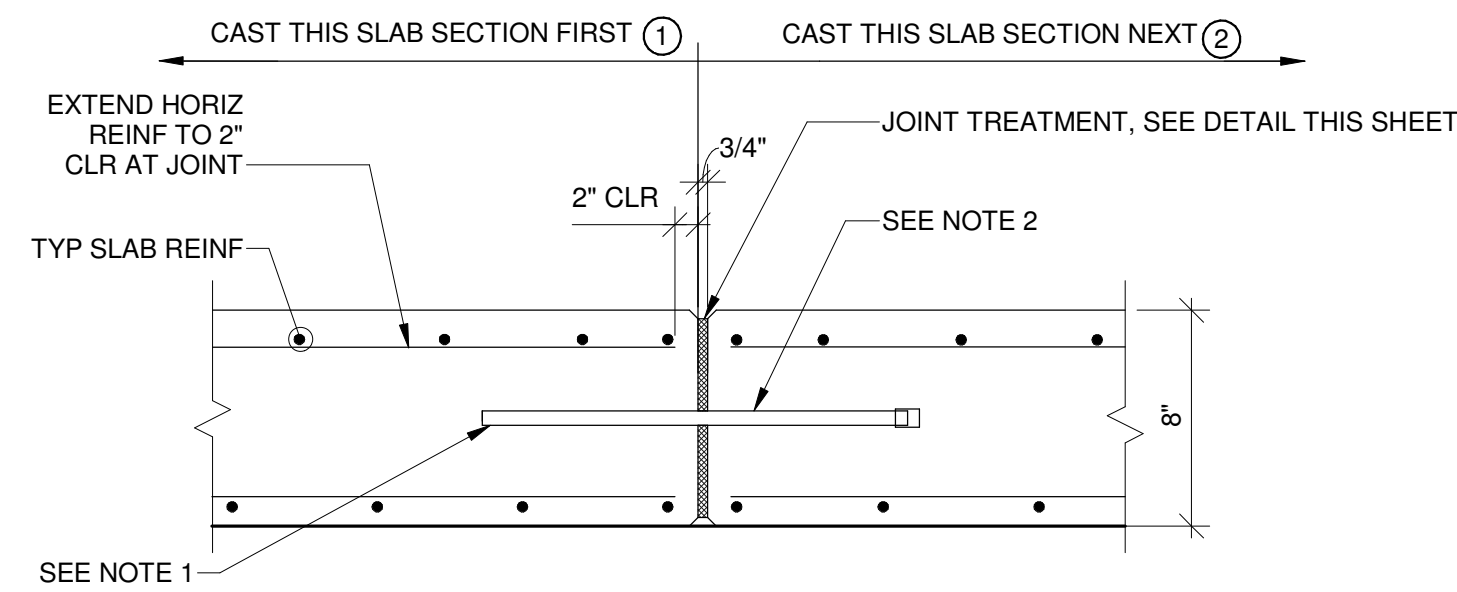
SCALE : NTS



- NOTES:
1. THE SPACING OF FORM TIES ON EXPOSED PORTIONS OF WALLS SHALL BE APPROXIMATELY EQUAL HORIZONTALLY AND VERTICALLY AND SHALL BE UNIFORM IN EACH DIRECTION.

FORM SNAP- TIE HOLE

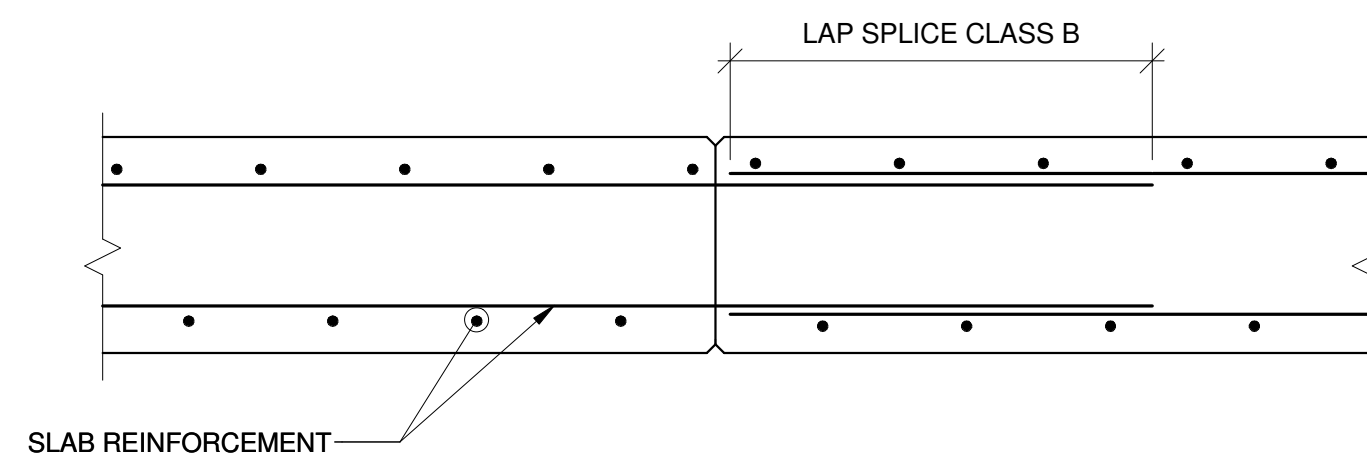
SCALE : NTS



- NOTES:
1. 5/8" DIA x 3'-0" SMOOTH STEEL BAR DOWELS. LOCATE AT CENTER OF SLAB. ALIGN AND TIE IN PLACE TO REINFORCING. PROVIDE CORROSION RESISTANCE COATING WITH A LUBRICANT AT HALF LENGTH OF DOWEL LOCATED AT THE SECOND CAST PORTION.
 2. 1" ID x 2" PLASTIC EXP CAP WITH 1" POLYSTYRENE BETWEEN END OF DOWEL AND END OF CAP. TAPE TO BAR FOR WATERTIGHT SEAL.

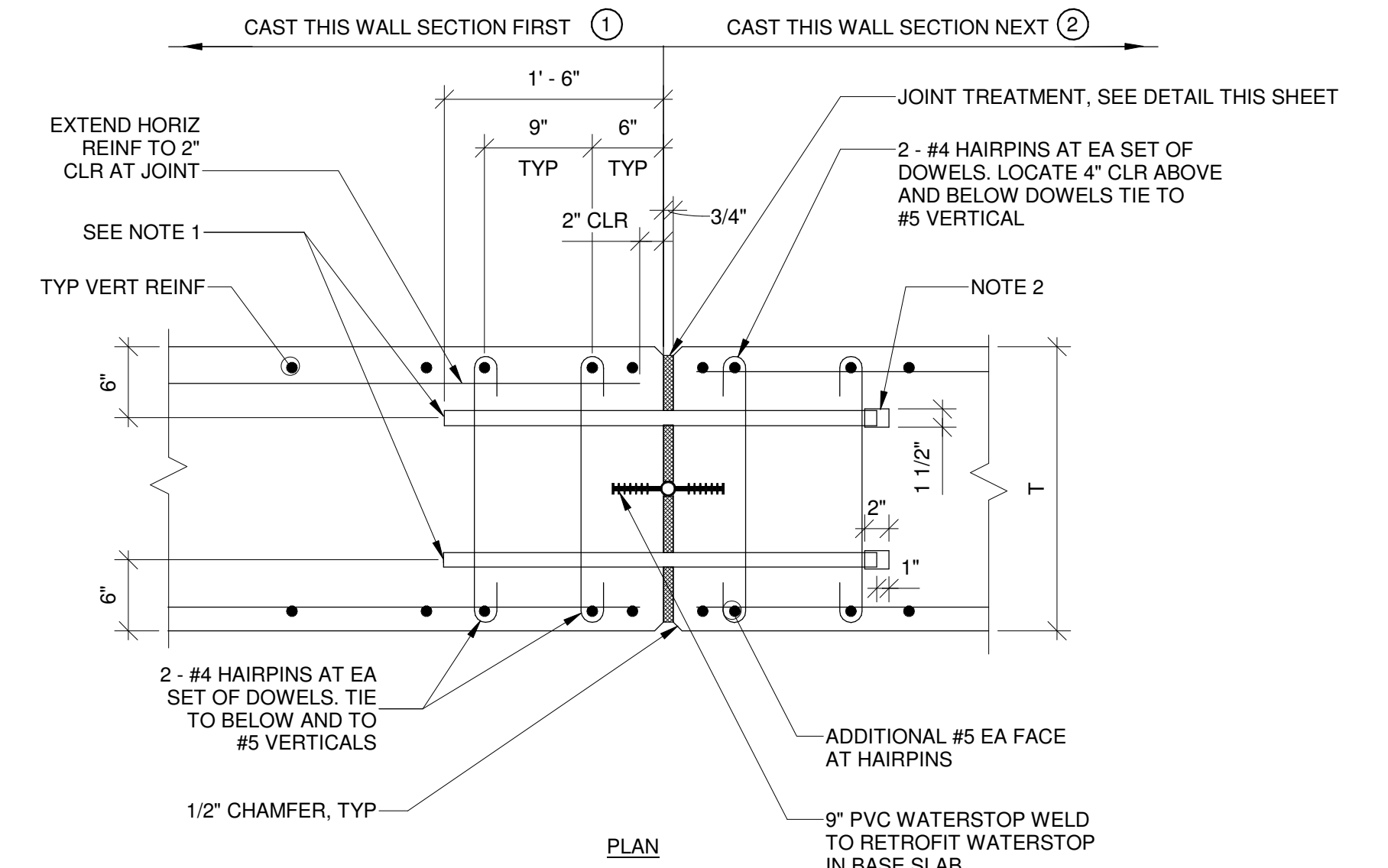
SLAB EXPANSION JOINT

SCALE : NTS



SLAB CONSTRUCTION JOINT

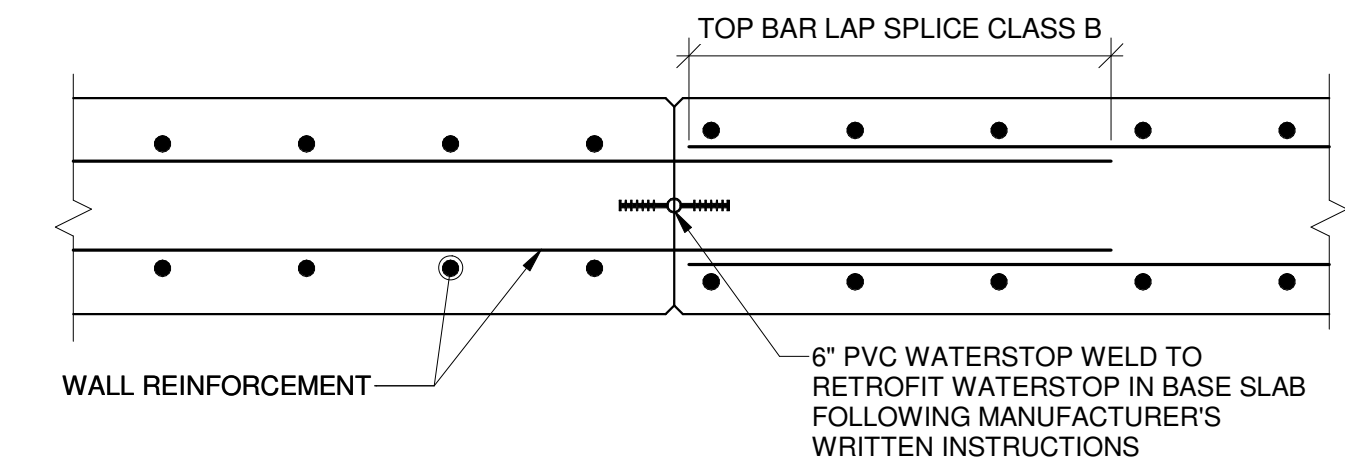
SCALE : NTS



- NOTES:
1. 1" DIA x 3'-0" SMOOTH STEEL BAR DOWELS. LOCATE AT 1'-0" MAX FROM T & B OF WALL AND AT 1'-6" MAX SPACING. ALIGN AND TIE IN PLACE TO REINFORCING. PROVIDE CORROSION RESISTANCE COATING WITH A LUBRICANT AT HALF LENGTH OF DOWEL LOCATED AT THE SECOND CAST PORTION.
 2. 1-1/2" ID x 2" PLASTIC EXP CAP WITH 1" POLYSTYRENE BETWEEN END OF DOWEL AND END OF CAP. TAPE TO BAR FOR WATERTIGHT SEAL.

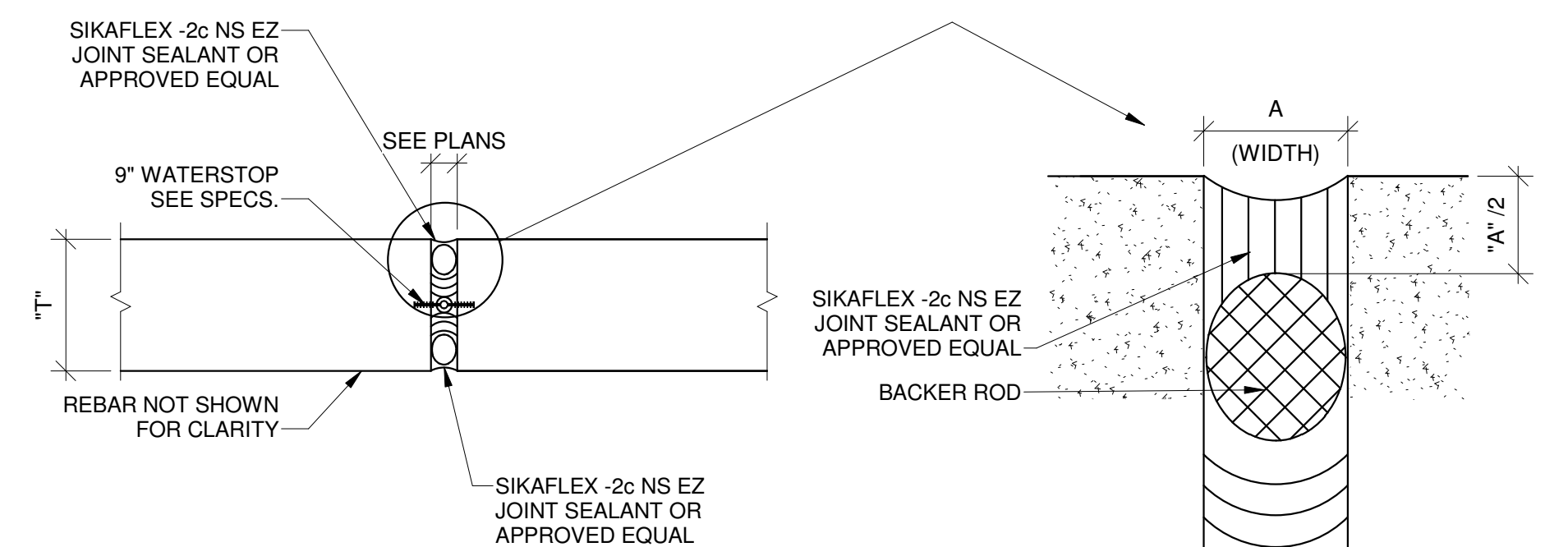
WALL VERTICAL EXPANSION JOINT

SCALE : NTS



WALL VERTICAL CONSTRUCTION JOINT

SCALE : NTS



- NOTE:
1. BACKER ROD AND JOINT SEALANT AT BOTTOM OF SLAB ON GRADE NOT REQUIRED.
 2. PROVIDE BACKER ROD AND JOINT FILLER AS RECOMMENDED FOR COMPATIBILITY WITH SEALANT BY SEALANT MANUFACTURER. FOLLOW MANUFACTURER'S GUIDELINES AND WRITTEN INSTALLATION INSTRUCTION.

EXPANSION JOINT AT WALL AND SLABS

SCALE : NTS

COPYRIGHT: ARCADIS U.S., INC. 2022			
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT			
NO.	DATE	ISSUED FOR	BY
2	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
1	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG

SEALS	
100% SUBMITTAL	

A Joint Venture

2839 Paces Ferry Road
 Suite 900
 Atlanta, GA 30339
 Tel: 770-431-8666
 Fax: 770-435-2666
 www.arcadis-us.com

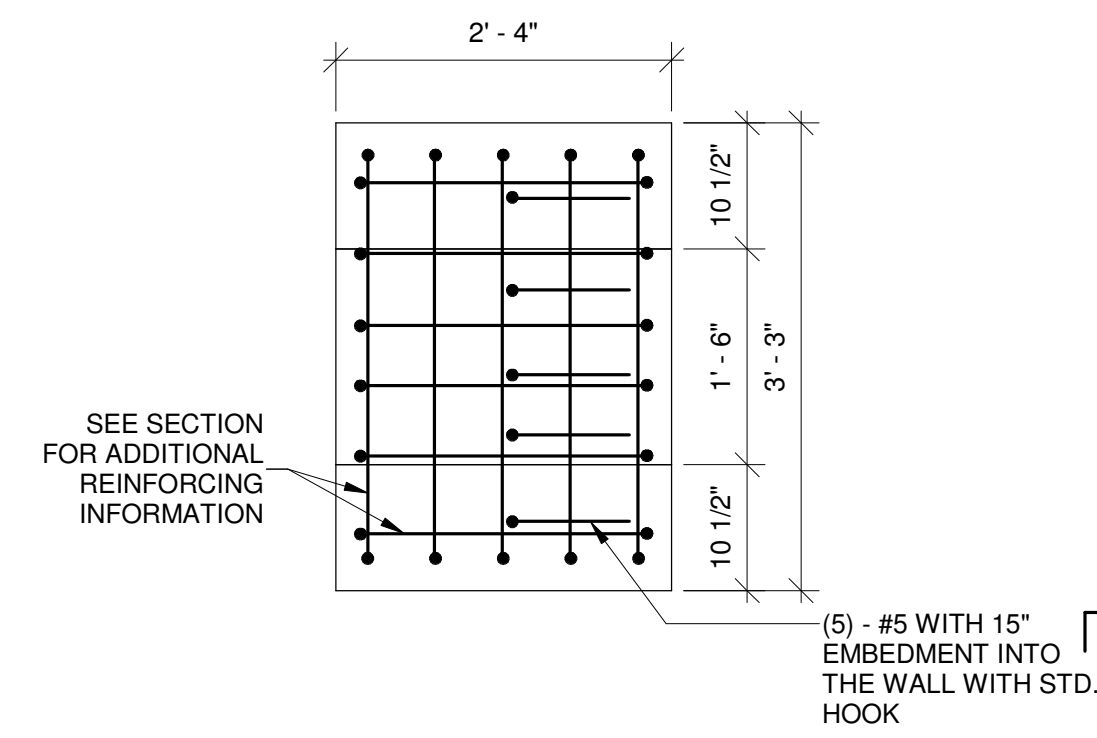
ATLANTA, GEORGIA
 CITY OF ATLANTA
 DEPARTMENT OF WATERSHED MANAGEMENT

EAST AREA WATER QUALITY CONTROL
 FACILITY IMPROVEMENTS

W.01.02.0085

SHEET TITLE STRUCTURAL		DATE: OCTOBER 2022		SCALE: AS INDICATED	
SEDIMENTATION BASIN 2 TYPICAL DETAILS		PROJECT NO.: 30030286		S-011	
DESIGNED BY: C. GALLO/ P. LUNKAD		DRAWN BY: K. RAGHAVI		SHEET 12 OF 13	
CHECKED BY: H. HOBI					

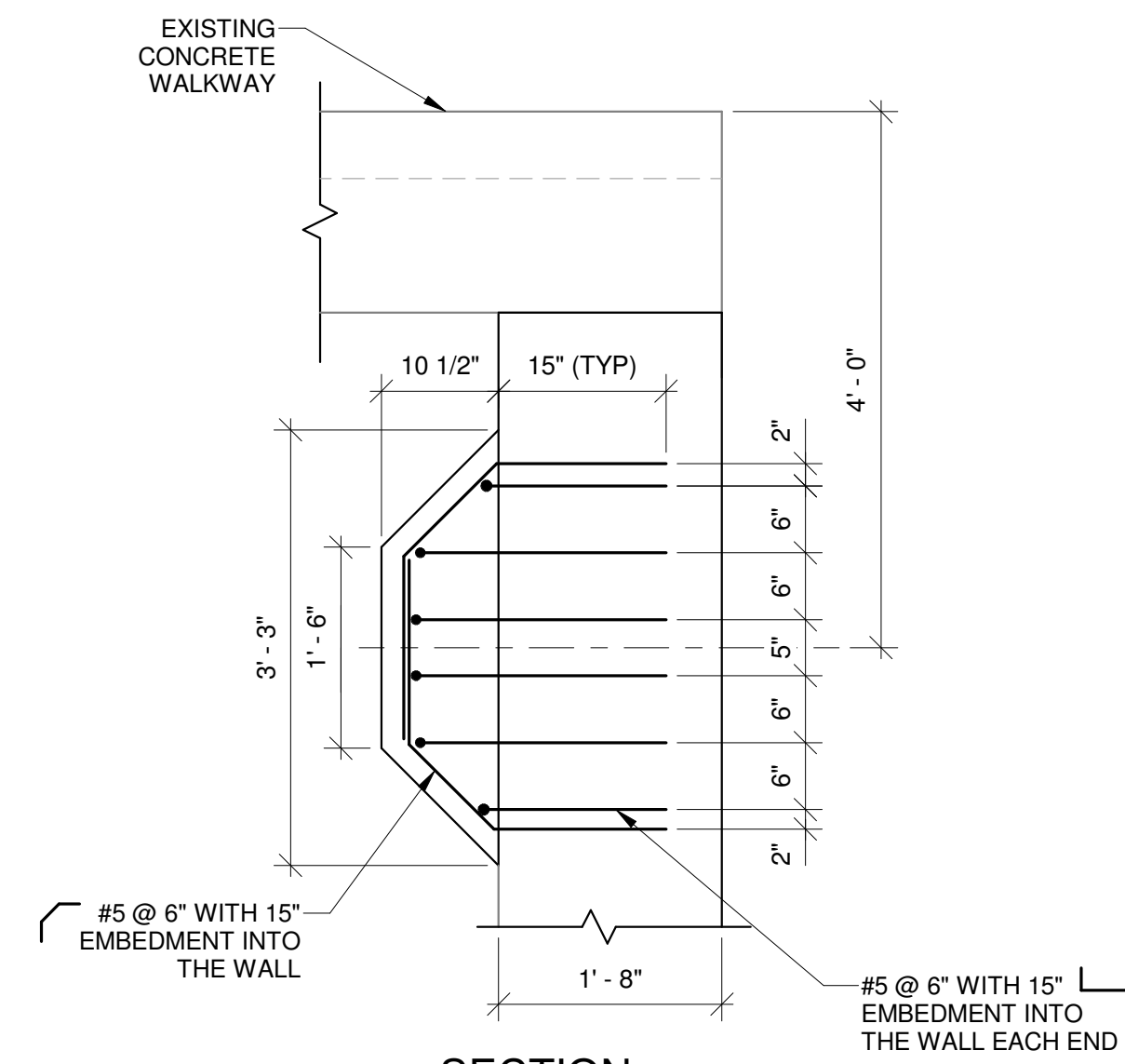
BIM 360://AUS-30030286 Task number 04-City of Atlanta - East Area Water Quality Control Facility (BP2) Sedimentation Basin Structural Repairs/S-3D-SB2 R21.rvt



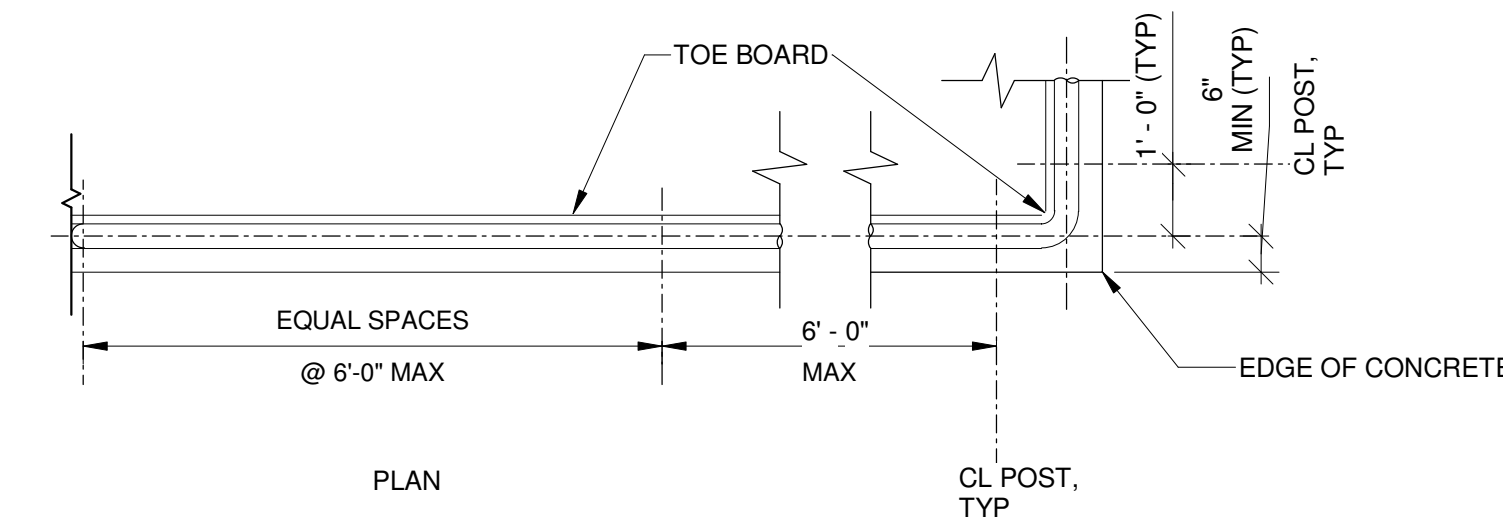
ELEVATION

HEADSHAFT SPROCKET SUPPORT DETAIL AT SOUTH WALL

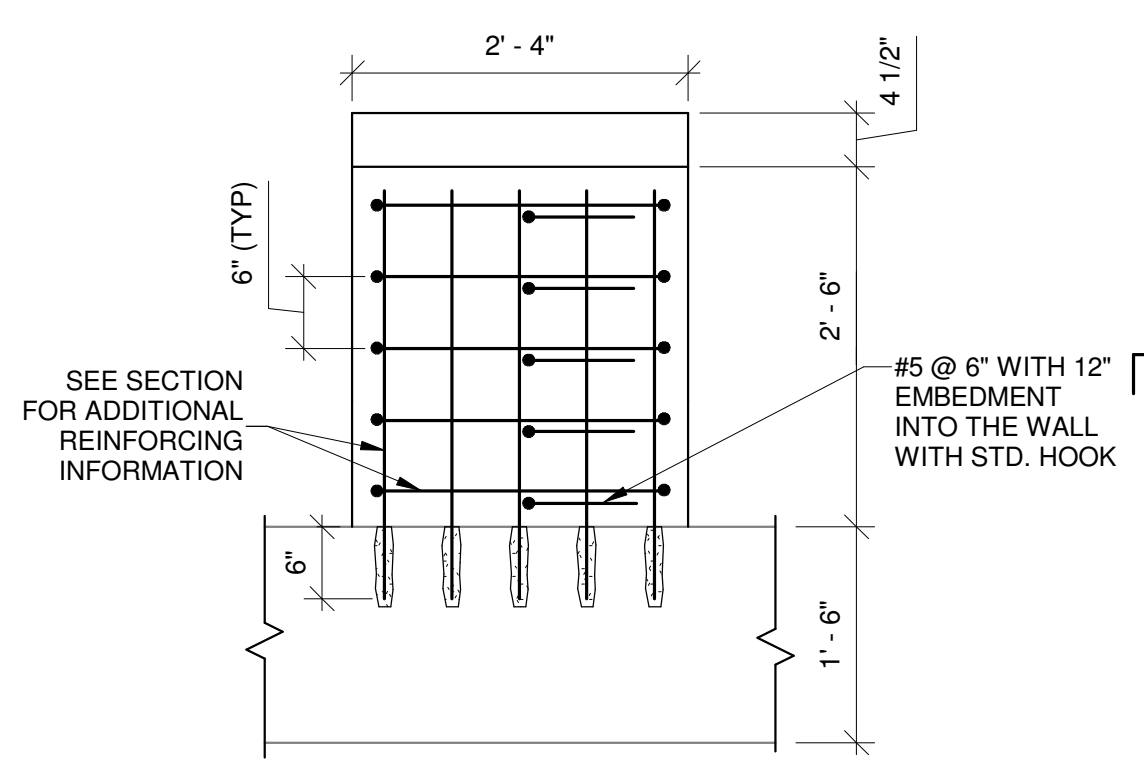
SCALE: 3/4" = 1'-0"



SECTION



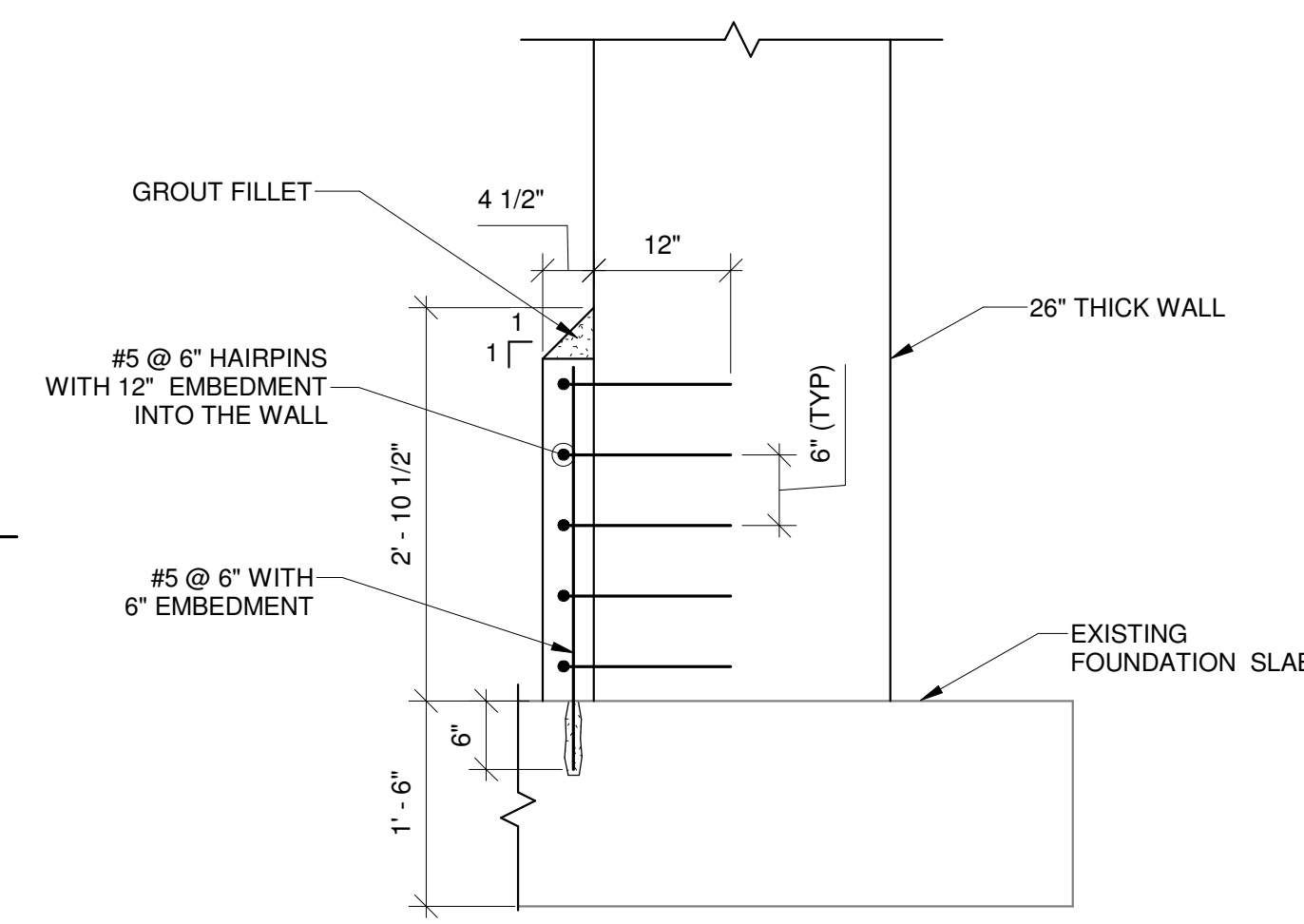
PLAN



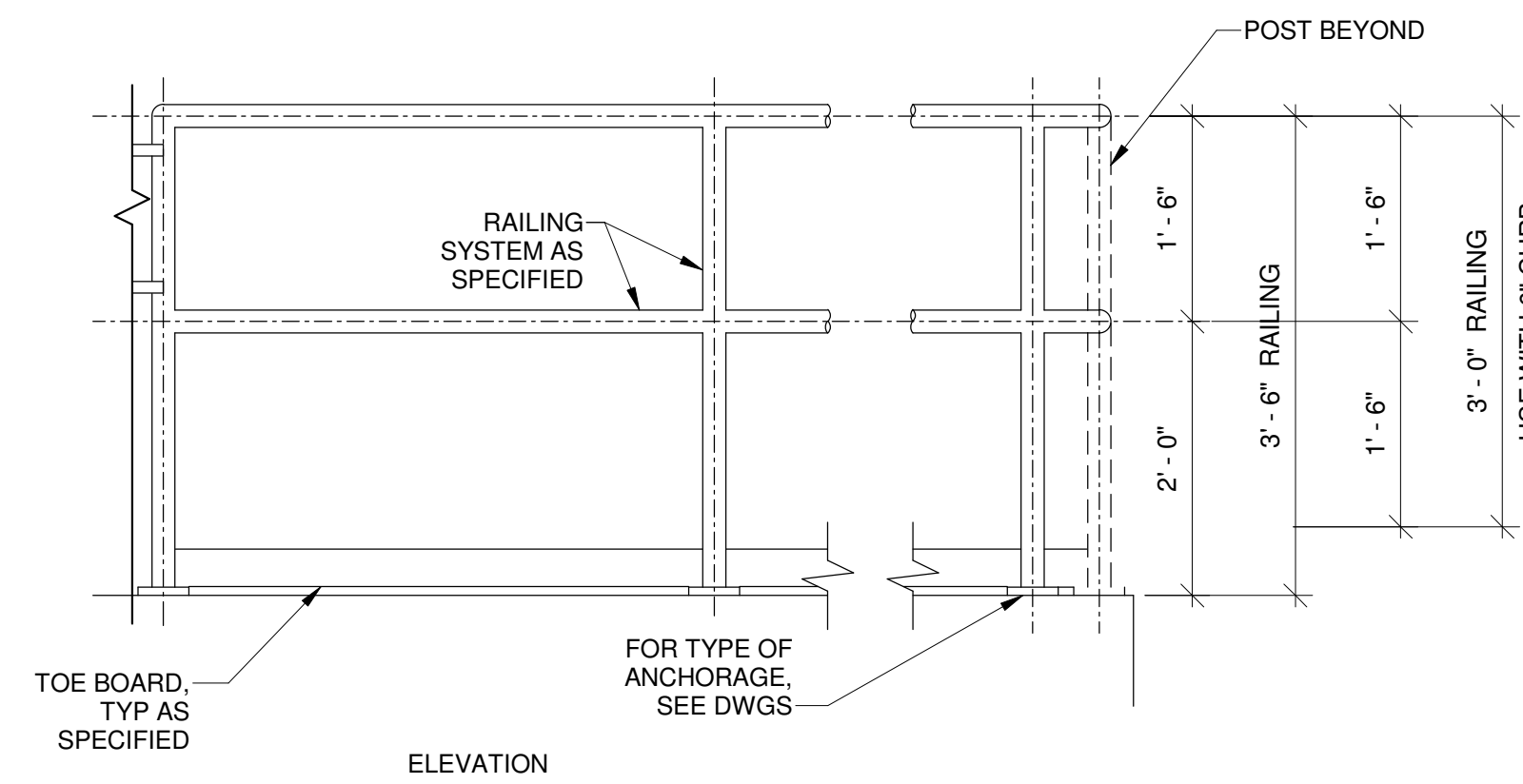
ELEVATION

NON- HEADSHAFT SPROCKET SUPPORT DETAIL AT SOUTH WALL

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



SECTION

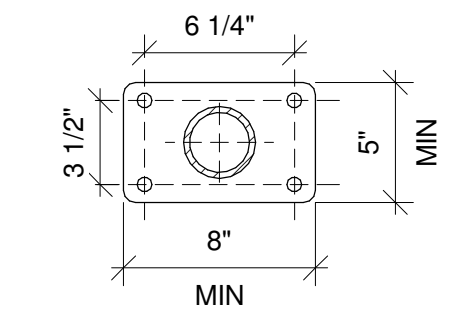


ELEVATION

ALUMINUM GUARDRAIL

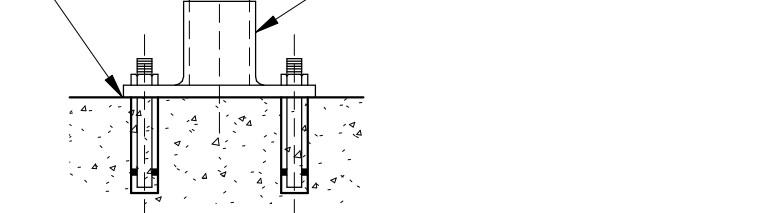
SCALE: NTS

THESE DETAILS ARE TO BE USED IN CASE ONLY WHEN NEW GUARDRAIL WILL BE INSTALLED ON THE WALKWAY SLAB. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.



PLAN

THE BASE PLATE SHALL SIT SOLIDLY ON CONCRETE. THE USE OF SHIMS, WEDGES, GROUT, ETC FOR RAILING POST ALIGNMENT OR ANY OTHER REASON WILL NOT BE PERMITTED.

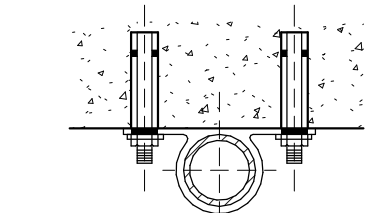


ELEVATION

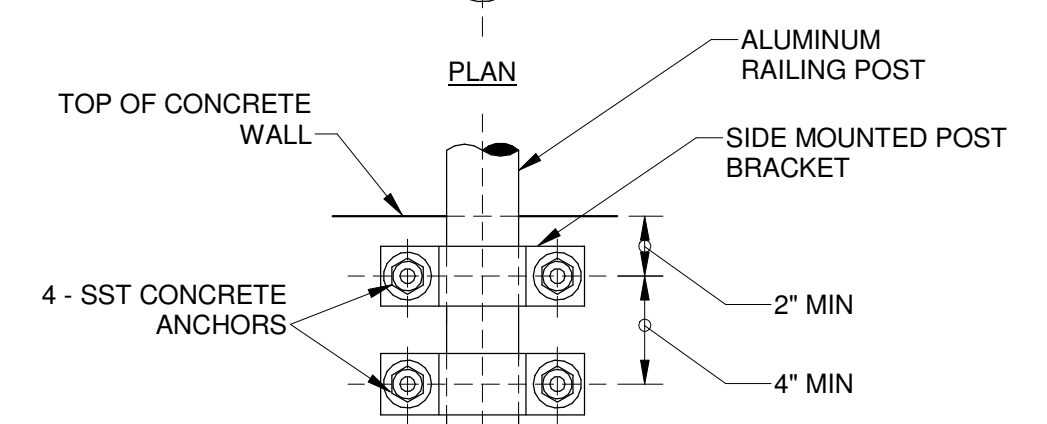
NOTE:

ALL ALUMINUM SURFACE IN CONTACT WITH CONCRETE OR A DISSIMILAR MATERIAL SHALL HAVE A SHOP COAT OF HEAVY BITUMASTIC.

TYPE "A"



PLAN



ELEVATION

NOTES:

- ALL ALUMINUM SURFACE IN CONTACT WITH CONCRETE OR A DISSIMILAR MATERIAL SHALL HAVE A SHOP COAT OF HEAVY BITUMASTIC.
- USE SIDE MOUNTED POST BRACKET AS A TEMPLATE FOR THE ANCHOR BOLTS.

TYPE "B"

GUARDRAIL ANCHORAGE

SCALE: NTS

NOTES:

- WALL AND FOUNDATION SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.
- SPROCKET LOCATION, DIMENSIONS AND ANCHORAGE SHALL BE PER MANUFACTURER'S SHOP DRAWINGS.
- PROVIDE MINIMUM 6" ANCHOR EDGE DISTANCE FROM EACH SIDE.
- AVOID DRILLING THROUGH REINFORCEMENT. MOVE SLIGHTLY AS NEEDED.
- PROVIDE 2" CONCRETE COVER FOR ALL REINFORCEMENT.
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE EQUIPMENT LOCATION AND POSITIONING WITHIN SEDIMENTATION BASIN EXISTING AND NEW WALLS.

COPYRIGHT: ARCADIS U.S., INC. 2022			
IF THIS BAR IS NOT 1" INDICATED SCALE IS INCORRECT			
NO.	DATE	ISSUED FOR	BY
2	OCTOBER 2022	100% DESIGN SUBMITTAL	CG
1	SEPTEMBER 2022	95% DESIGN SUBMITTAL	CG

SEALS	
100% SUBMITTAL	

ARCADIS BPA
A Joint Venture

2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
Tel: 770-431-8666
Fax: 770-435-2666
www.arcadis-us.com

ATLANTA, GEORGIA
CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

RESURGENS
ATLANTA, GA

EAST AREA WATER QUALITY CONTROL
FACILITY IMPROVEMENTS

W.01.02.0085

SHEET TITLE
STRUCTURAL

**SPROCKET SUPPORT AND
RAILING DETAILS**

DATE:	OCTOBER 2022
PROJECT NO.:	30030286
DESIGNED BY:	C. GALLO/ P. LUNKAD
DRAWN BY:	K. RAGHAVI
CHECKED BY:	H. HOBI

SCALE:	AS INDICATED
S-012	
SHEET	13 OF 13