

ADDENDUM NO. 1

ISSUE DATE: April 2, 2020

For

DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES

ETOWAH WATER & SEWER AUTHORITY
DAWSONVILLE, GEORGIA



Bids to be received until 10:00 a.m., local time, Tuesday, April 7, 2020

The Bids received will be opened electronically at 10:10 a.m., local time, on said date.

Receipt of this addendum, and all other addenda, should be acknowledged as part of your bid document. Failure to acknowledge receipt of the addenda may result in rejection of the bid. This addendum forms a part of the Contract Documents.

Please note the following **CHANGES** to the above referenced Contract Documents as follows:

SPECIFICATIONS

- 1. SECTION 00 11 16 INVITATION TO BID, Page 1, Paragraph entitled SEPARATE SEALED BIDS: CHANGE to read:**

SEPARATE BIDS for furnishing all materials and providing all labor, tools, and equipment will be received by the Owner via email to Peter Johns, P.E. (pjj@wiedeman.com), until 10:00 a.m., local time, on **Tuesday, April 7th, 2020**. The bids and supporting documentation shall be emailed in PDF format in a single PDF file. The Bids submitted in PDF format will be opened electronically by the Owner and Engineer at 10:10 a.m., local time, on said date. It is the responsibility of the person/firm submitting a Bid to ensure that it is received at the email address listed above. An email reply acknowledging receipt will immediately be sent back to any bidder submitting a bid. After the Bids are opened at 10:10 a.m., local time, a summary of the bidders and their total amount bid (unaudited) will be emailed to each company submitting a bid. At a later date, a certified bid tabulation will also be emailed to each company submitting a bid.

2. **SECTION 00 11 16 INVITATION TO BID, Page 1, Paragraph entitled COURIER DELIVERY & POSTAL SERVICE DELIVERY: DELETE paragraph. All bids shall be submitted electronically via email.**
3. **SECTION 00 21 13 INSTRUCTIONS TO BIDDERS, Page 1, Paragraph entitled PREPARATIONS AND EXECUTION OF BID: DELETE Item A., 4.**
4. **SECTION 00 21 13 INSTRUCTIONS TO BIDDERS, Page 2, Paragraph entitled PREPARATIONS AND EXECUTION OF BID: CHANGE the last sentence of paragraph G. to read as follows: "These documents must be submitted electronically in PDF format in a single PFD file."**
5. **SECTION 07 40 00 ARCHITECTURAL METAL ROOF SYSTEM, Page 4 – Paragraph 2.4, D: CHANGE to read – "The Owner shall choose the colors of roof panels, ceiling panels, soffit panels, metal fascia, ridge vent, gutters and downspouts. Provide 6 original color copies of the standard color charts with available colors for the Owner to review and select the colors."**
6. **SECTION 07 40 00 ARCHITECTURAL METAL ROOF SYSTEM, Page 4 – Paragraph 2.8, E: CHANGE the specified paragraph from 2.2 to 2.4.**
7. **SECTION 07 40 00 ARCHITECTURAL METAL ROOF SYSTEM, Page 5 – Paragraph 2.9, A: CHANGE the specified paragraph from 2.2 to 2.4.**
8. **SECTION 08 41 13 ALUMINUM ENTRANCE DOORS, Page 3 – Paragraph 2.1, A, 1: Add Approved Manufacturer – "Special-Lite"**
9. **SECTION 09 70 00 SEAMLESS EPOXY FLOOR COATINGS, Page 3 – Paragraph 2.1, A, 1, b: Change to read – "Substitutions: Section 01 25 13 Substitutions and Product Options"**
10. **SECTION 09 70 00 SEAMLESS EPOXY FLOOR COATINGS, Page 3 – Paragraph 2.1, A, 1: Add Approved Manufacturer – "Key Resin Company"; Add Approved Product – "Key Epoxy Resinous Flooring System"**
11. **SECTION 31 25 00 EROSION AND SEDIMENTATION CONTROL, Page 4 – Paragraph 2.4: DELETE this paragraph.**
12. **SECTION 31 25 00 EROSION AND SEDIMENTATION CONTROL, Page 6 – Paragraph 3.3, A: DELETE this paragraph.**
13. **SECTION 33 01 32 SEWER AND MANHOLE TESTING: Delete this section.**
14. **SECTION 33 05 61 MANHOLES AND STRUCTURES: Delete this section.**

DRAWINGS

1. **Drawing C.02: CHANGE Note 1.1.1 listed under "REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS" to read as follows:
"1.1.1. - UNDERCUT TO A DEPTH OF 2-FEET BELOW THE BOTTOM OF THE PROPOSED CAST IN PLACE CONCRETE FOUNDATION SLABS AND BACKFILL AS FOLLOWS:"**

2. **Drawing C.04: ADD the “TYPICAL SIDEWALK DETAIL” to Drawing C.04 as shown in the attached Sketch C.04-1.**
3. **Drawing ESC.04: REPLACE this sheet with the attached revised Drawing ESC.04.**
4. **Drawing M.03: MODIFY the water piping routed to the “EXTERIOR HOSE RACK ASSEMBLY” as shown in the attached Sketch M.03-1; adjust “EXTERIOR HOSE RACK ASSEMBLY” location as shown.**
5. **Drawing M.08: REPLACE this sheet with the attached revised Drawing M.08 dated 4/2/2020.**
6. **Drawing S.08: REPLACE this sheet with the attached revised Drawing S.08 dated 4/2/2020.**
7. **Drawing S.09: REPLACE this sheet with the attached revised Drawing S.09 dated 4/2/2020.**
8. **Drawing S.10: ADD the following note to the “BUILDING EXTERIOR GENERAL NOTES”:
3. EXTEND ALL EXTERIOR MASONRY WALLS TO THE UNDERSIDE OF THE ROOF PANELS, AND SOFFITS.**
9. **Drawing S.14: REPLACE this sheet with the attached revised Drawing S.14 dated 4/2/2020.**
10. **Drawing E.01: CHANGE circuit LE-16 description to “6” MAGMETER TRANSMITTER”.**
11. **Drawing E.03: CHANGE as follows:**
 - a. **DELETE the two NEMA 4X SS junction boxes and associated wiring and conduit for the 120V connection to heat trace.**
 - b. **ADD the following note: 8. CONTRACTOR SHALL FURNISH AND INSTALL A 6” MAGMETER AND REMOTE MOUNT TRANSMITTER. METER SHALL BE A KROHNE ENVIROMAG 2000 WITH HARD RUBBER LINER, HASTELLOY C ELECTRODES, AND 316 STAINLESS STEEL GROUNDING RINGS. TRANSMITTER SHALL BE KROHNE IFC100W RATED FOR 120V. KROHNE SHALL PROVIDE 8 HOURS OF ON-SITE STARTUP, CALIBRATION, AND OWNER TRAINING SERVICES. CONTACT MR. TOM FOSTER AT 770-975-0774 FOR PRICING.**
 - c. **ADD the following note: 9. CONTRACTOR SHALL INSTALL TRANSMITTER ON WALL UNDER UH-102. ROUTE A 1” CONDUIT FROM TRANSMITTER TO MAGMETER, A 3/4” CONDUIT WITH 3 #12 FROM TRANSMITTER TO PANEL LE-16, AND A 3/4” CONDUIT WITH A #16 TWISTED SHIELDED PAIR FORM TRANSMITTER TO LCP-DEWATERING PANEL.**
 - d. **ADD the “MAGNETIC FLOWMETER INSTALLATION DETAIL” to Drawing E.03-1 as shown in the attached Sketch E.03-1.**

CLARIFICATIONS – See attached BID PHASE QUESTIONS dated 4/2/2020.

END OF SECTION

BID PHASE QUESTIONS
EWSA DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES

(BID DATE: 10:00 a.m. EST - April 7, 2020)

Date Issued: 4/2/20

Question #	Question	Answer
1	Is the Owner writing the purchase order for the Charter Machine Belt Press and Appurtenances?	In accordance with the Instruction to Bidders (Section 00 21 13 - Pages 5 & 6), "the bidder agrees to allow the Owner to purchase certain materials for this Project at the price quoted to Bidder by its supplier". On this particular project, the Owner only anticipates exercising this option for the Belt Filter Press and Appurtenances to be provided by Charter Machine Company in accordance with Attachment A of the specifications. More specifically, the Owner intends to write a change order in the amount of \$452,594.00 concurrently with the contract award to delete the scope of materials and services to be provided by Charter Machine Company in accordance with Attachment A from the Contractor's scope and contract, and the Owner will issue a purchase order to Charter Machine Company for \$452,594.00.
2	Should Charter Machine's price for the Belt Press and Appurtenances be part of our bid?	Yes. See the Bid Form (Section 00 41 13 - Page 2) for the specific amount (i.e., \$452,594.00) to be included in the contractor's total bid.
3	What is the engineer's estimate?	The Authority's current budget for the project is \$1.5M.
4	Has any of Charter's equipment been released for manufacture?	No. If the Etowah Water & Sewer Authority Board of Directors approves award of the construction contract at their scheduled meeting on April 14, 2020, the Owner intends to authorize Charter Machine Company to proceed with fabrication and delivery of the equipment to the project site in accordance with the approved shop drawing submittals included in Attachment A of the specifications.
5	Under the OWNER'S OPTION TO PURCHASE MATERIALS in the Instruction to Bidders (Section 00 21 13 - page 5) of the specifications it calls for inclusion of a 7% sales tax, but Charter's quote states that it excludes sales tax. Please clarify if the contractor is responsible for the 7% sales tax and if it needs to be included in our bid?	See responses to Questions 1 & 2 above. The contractor will not be responsible for the 7% sales tax excluded from Charter Machine Company's quote.
6	Is the bid date a firm date?	Yes.
7	Is 270 days a firm amount of time? Additional time seems needed based on Charter's quoted delivery of 26 weeks.	Yes. In preparing their bid, however, the contractor shall assume a delivery schedule of 16 weeks for the equipment to be furnished by Charter Machine Company (not 20-26 weeks). This updated delivery schedule will be clarified in Addendum No. 1. Based on the Owner authorizing Charter Machine Company to proceed with fabrication on April 15, 2020, delivery of the approved equipment to the site would be roughly mid-August.
8	Will the Owner issue a purchase order to Control Automation for the required SCADA work?	Yes. See Cash Allowances (Section 01 21 13 - page 2) for additional clarification.
9	Please provide further explanation of the intent for the Owner purchasing materials in lieu of the Contractor. Does this apply to all materials and equipment for the project? If not, please expound on what items will be under this option.	See response to Question 1 above.
10	Bid item II - "Major Equipment" does not include sales tax according to page 4 of Charter's quote. Please confirm.	See response to Questions 2 and 5 above.
11	Sales tax is listed as a deduction item under the Owner's options to purchase materials. The \$452,594.00 amount for the Belt Press does not include sales tax according to Charter's quote. Please confirm if the contractor is to include the 7% sales tax for the belt press.	See response to Questions 2 and 5 above.
12	In Charter Machine Company's documentation included in Attachment A, the last part of Item 2 states "..., and to be completed in one (3) trips." Please confirm the number of trips by the factory-trained representative.	This was a typo by Charter Machine Company. It should read three (3) trips.
13	Please confirm if the contractor is to include or exclude the \$18,000.00 for Item 8 of Charter's quote in their bid.	Exclude. These costs have already been paid to Charter Machine Company by the Owner.
14	In the General Conditions of the specifications (Section 00 72 43 - Article 30), the Contractor is specified to expect to lose 83 working days per year due to weather according to the table of days. The current contract time is 270 days. Depending on the months of construction, the Contractor should expect to lose around 2 months of time before starting construction. Considering this, can 2 months or more of contract time be added to account for weather per the specifications?	For purposes of preparing their bids specific to this issue, the Contractor shall assume a notice to proceed (NTP) date of May 18, 2020.

BID PHASE QUESTIONS
EWSA DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES

(BID DATE: 10:00 a.m. EST - April 7, 2020)

Date Issued: 4/2/20

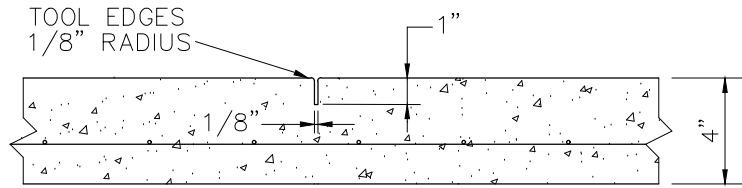
Question #	Question	Answer
15	Is the magmeter shown on sheet E.03 going to be provided by Charter Machine? If not, can you provide a spec on the magmeter.	No, the required 6" Magnetic Flow Meter shall be furnished and installed by the Contractor. This will be clarified in Addendum No. 1, including details on the meter to be provided.
16	Please clarify what piping gets heat trace and insulation. If this is shown on the drawings we can't find anything, other than a note on sheet E.03 (near the dumpsters).	This note will be deleted in Addendum No. 1. No heat tracing and insulation is needed in this area.
17	There is a spec section on "Sewer and Manhole Testing " and "Manhole and Structures". Are there any manhole structures to be provided?	The required precast manhole structures are currently being installed by others. Therefore, these spec sections will be deleted in Addendum No. 1.
18	In regards to pipe supports, there is a pipe support P.S. #8 (wall bracket) shown on sheet M.03 but there is no Detail for P.S. No. 8 shown on sheet M.08 (there is a Detail P.S. #6 wall bracket on sheet M.08). Same applies to a pipe support P.S. #12...shown on sheet M.03 but no Detail P.S. #12 on sheet M.08.	This will be clarified in Addendum No. 1.
19	In regards to the Note 1.1.1. on sheet C.02 regarding removal of unsuitable material, can you clarify if "Bottom of Foundation" is referring to the bottom of the concrete footings or bottom of #4 stone?	This note is intended to reference the "bottom of the proposed cast in place concrete foundation slabs" and will be clarified in Addendum No. 1.
20	For the specified epoxy flooring system (Section 09 70 00), will the Owner consider approval of Key Resin Company as an acceptable manufacturer and their Key Epoxy Resinous Flooring System components as acceptable products?	Yes, this will be clarified in Addendum No. 1.
21	For the specified Aluminum Entrance Doors (Section 08 41 13), will Special Lite be approved as an acceptable aluminum door supplier?	Yes, this will be clarified in Addendum No. 1.
22	On detail 6/S.11, please confirm that the HSS8x4x1/4 & C6x13 are carbon steel and that the L4x4x1/2, L3x3x1/4, and L6x4x3/8 are stainless.	Yes, that is correct. The HSS8x4x1/4 & C6x13 are carbon steel and the L4x4x1/2, L3x3x1/4, and L6x4x3/8 are stainless-steel.
23	The L4x4x1/2 hangers (also detail 6/S.11) seems awful heavy. Do you think that could be a typo? L4x4x1/2s may not be available.	The L4x4x1/2 sizes are correct. They're oversized to limit lateral deflection, and in case the conveyors are overloaded. That size is commonly available per Paul Cunningham (p.cunningham@sss.us.com) at https://www.stainless-structurals.com . If other suppliers have larger or stronger members more readily available, they will be acceptable and approved by the Engineer during submittal of shop drawings.
24	Please confirm that the carbon steel frame for the dumpster cover framing is not to be galvanized as I can't find anything about a finish on it.	That is correct. All structural carbon steel shall be painted per the contract specifications (Section 05 12 00 - Paragraph 3.7) and in accordance with the painting schedule (Section 09 90 00 - Paragraph 3.17, B).
25	Plan sheet S.08, section C – please provide dimensions for the slab thickness in the dumpster area.	The slab dimension is 8-inches. This will be clarified in Addendum No.1.
26	Plan sheet S.09, section F – please provide dimensions for the slab thickness in the dumpster area. Please provide elevations for the sloping dumpster slab (what is the elevation of the slab all the way to the right)?	The slab dimension is 8-inches. This will be clarified in Addendum No.1.
27	How thick is the sidewalk around the dumpster pad?	The sidewalk around the dumpster area will be a standard 4-inch thick sidewalk. This will be clarified in Addendum No.1.
28	Specification section 01 77 00.B states the warranty period is one year. Paragraph C states the warranty period is five years. Please clarify.	Paragraph C refers to "latent defects" that may be found after the 1-year warranty period referenced in paragraph B.
29	The bid form lists a cash allowance for soils and concrete testing in the amount of \$15,000. Specification section 03 30 00.3.9.A states "the contractor shall arrange and pay for all concrete testing services on the referenced project." Please clarify how onsite concrete testing will be paid for.	Per paragraph 3.9, A. of Section 03 30 00, the Contractor shall arrange and pay for all concrete testing services. However, the Owner will reimburse the Contractor for all services and testing invoices issued by Southern Geotechnical Consultants using the \$15,000.00 cash allowance in the Bid Form. Any other costs incurred by the Contractor associated with concrete testing shall be included in their lump sum bid.
30	Specification section 05 05 19 requires testing of post installed anchors. Is the testing firm paid for by the owner?	No cash allowance has been established in the contract for this testing. As such, the Contractor shall include all required testing costs in their lump sum bid.
31	Plan sheet S.09 – should door D.4 be the same size as D.5?	Yes, this will be clarified in Addendum No. 1.
32	Specification section 07 40 00-2.8 and 2.9 reference paragraph 2.2, but paragraph 2.2 isn't found. Please clarify.	This will be clarified in Addendum No. 1.
33	Section 01 22 00 – 1.7 EROSION AND SEDIMENT CONTROL – We find no unit price item on the BID FORM for the following items as alluded to in the specifications: 1.) Rip Rap/Storm Drain Outlet Protection, and 2.) Slope Stabilization.	The referenced BMPs are not required for this project and will be deleted via Addendum No.1.
34	Section 01 40 00 1.3 A says the CONTRACTOR shall retain the services of an independent commercial testing laboratory – please confirm that this comes from the testing allowance.	Correct. Also, please see the response to Question #29 above for additional information.

BID PHASE QUESTIONS
EWSA DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES

(BID DATE: 10:00 a.m. EST - April 7, 2020)

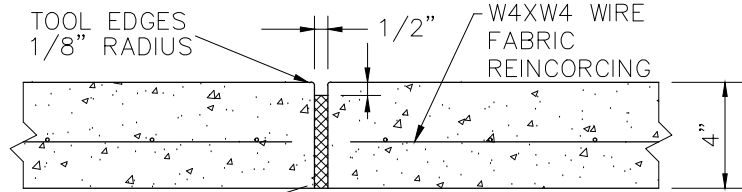
Date Issued: 4/2/20

Question #	Question	Answer
35	Document 00 45 19.01 NON-COLLUSION AFFIDAVIT OF SUB-CONTRACT must be submitted with the bid as we understand the BID FORM – please confirm and is this primarily ELECTRICAL? It will be almost impossible to have every subcontractor have this notarized form on bid day.	Please submit a completed affidavit for each major sub-contractor known at the time your bid is submitted.
36	Are there metal wall panels (actually metal roof panels used on the wall)? The spec indicates this but the plans show block or are silent.	There are no metal wall panels; the masonry wall will extend to the roof. There are roof panels on the soffits and overhangs of the roof. This will be clarified in Addendum No.1.
37	There looks to be a metal ceiling in the building. We're assuming there is no ceiling on the canopy. Please confirm.	Correct.
38	FYI, the ceiling panels need to be installed in 11'- 4" lengths.	Coordinate ceiling panel lengths with the layout and spacing of roof trusses.
39	Are we to include the dumpsters in our bid?	No, the dumpsters will be provided by the Owner (see note on drawing M.03).
40	Will there be a public bid opening and can we attend?	Due to the Coronavirus restrictions in Georgia, the contractors shall submit their bids electronically in PDF format to Peter Johns, P.E. at pjj@wiedeman.com by no later than 10:00 a.m. EST on Tuesday, April 7th, 2020. The PDF files submitted will be opened at 10:10 a.m. EST by the Owner and Engineer, and a summary of the bidders and their total amount bid (unaudited) will be emailed to each company as soon as possible. At a later date, a certified bid tabulation will also be emailed to each company submitting a bid. This will be clarified in Addendum No. 1.
41	The erosion control drawings state that the disturbed area is just 0.55 acres, but the notes state for the contractor to perform runoff sampling. There is also a note that says there is an NPDES permit. Since the site is less than an acre, are we in fact supposed to get an NPDES permit and perform stormwater sampling as part of the job?	No NPDES permit or stormwater monitoring will be required on this project. This will be clarified in Addendum No. 1.
NOTES:	1. Company Names and Trade Names have been removed from the questions. The answers contain trade names only to refer to existing installations. These inclusions do not represent an endorsement of the product or the company. 2. Questions from sales representatives have been edited where appropriate for brevity. 3. Questions from General Contractors have been left untouched. 4. Significant Changes in answers previously posted are marked in red.	



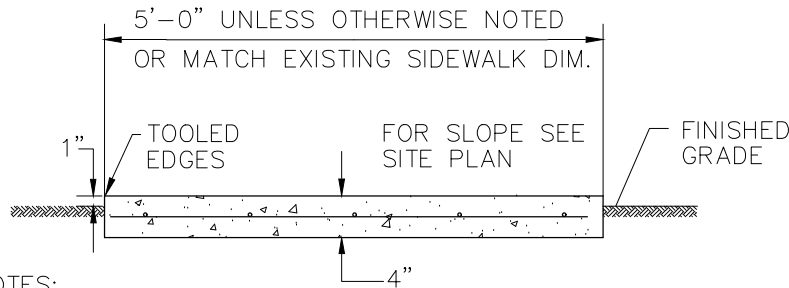
SIDEWALK CONTROL JOINT

N.T.S.



SIDEWALK EXPANSION JOINT

N.T.S.



NOTES:

1. PROVIDE 1" DEEP CONTROL JOINT ACROSS CONCRETE AT 5' C.C.
2. MAXIMUM CROSS SLOPE 1:10
3. PROVIDE EXPANSION JOINT ACROSS CONCRETE AT 25' C.C.
4. PROVIDE EXPANSION JOINT BETWEEN SIDEWALK AND ALL STRUCTURES
5. MINIMUM REINFORCING SHALL BE WELDED WIRE FABRIC (W4XW4)

TYPICAL SIDEWALK DETAIL

N.T.S.

INDICATES AREAS OF
ADDENDUM NO. 1
(TYPICAL)

REV.	DATE	DESCRIPTION	BY
1	11/22/2019	60% DESIGN REVIEW SET	PJJ
2	1/6/2020	90% DESIGN REVIEW SET	PJJ
3	1/24/2020	REGULATORY REVIEW SET	PJJ
4	2/26/2020	BID READY SET	PJJ
5	4/2/2020	ADDENDUM NO.1	PJJ
6			

**SKETCH
NO. C.04-1**



WIEDEMAN AND SINGLETON, INC.
Civil and Environmental Engineers
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NORCROSS, GA 30071
(404) 876-5862
WWW.WIEDEMAN.COM

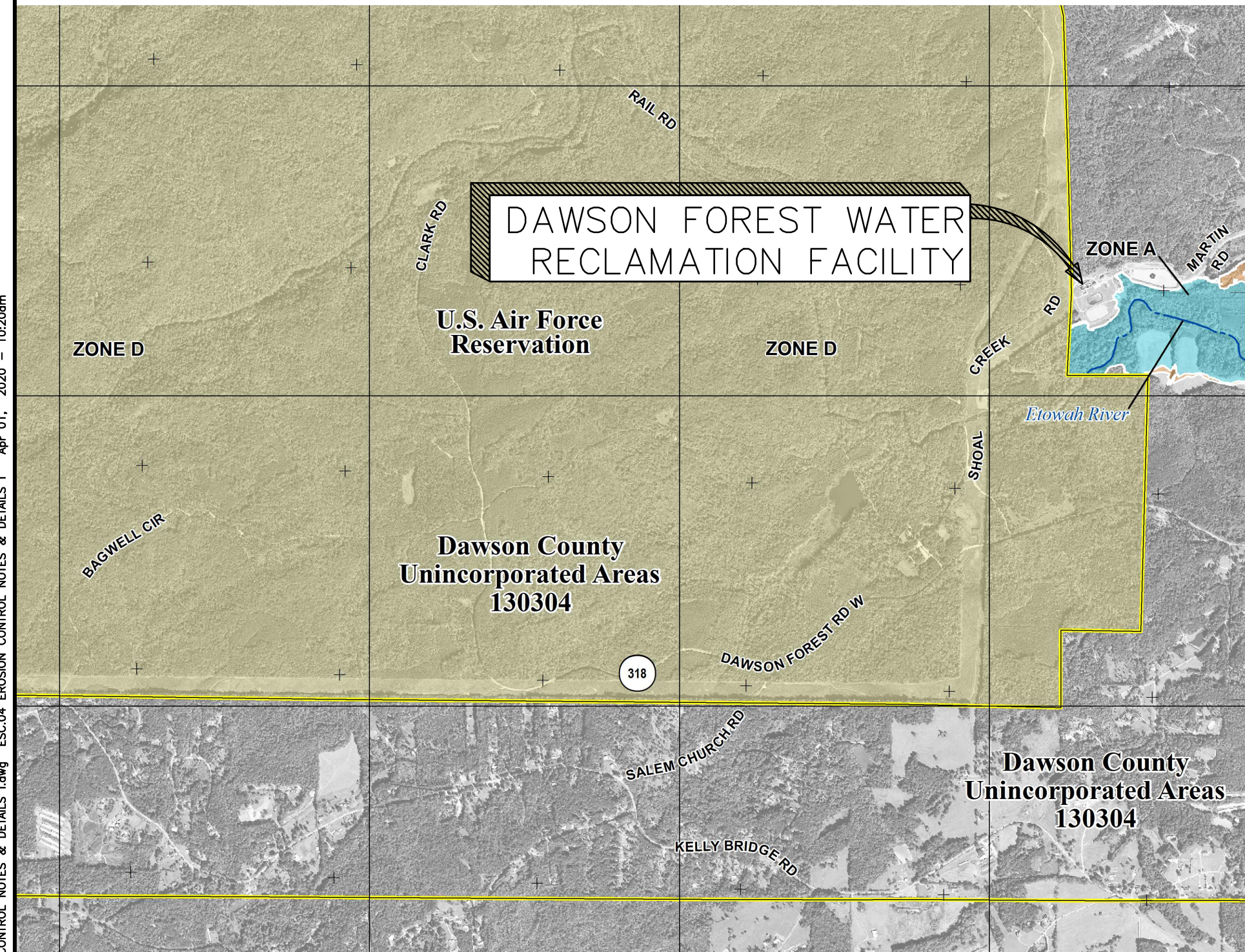
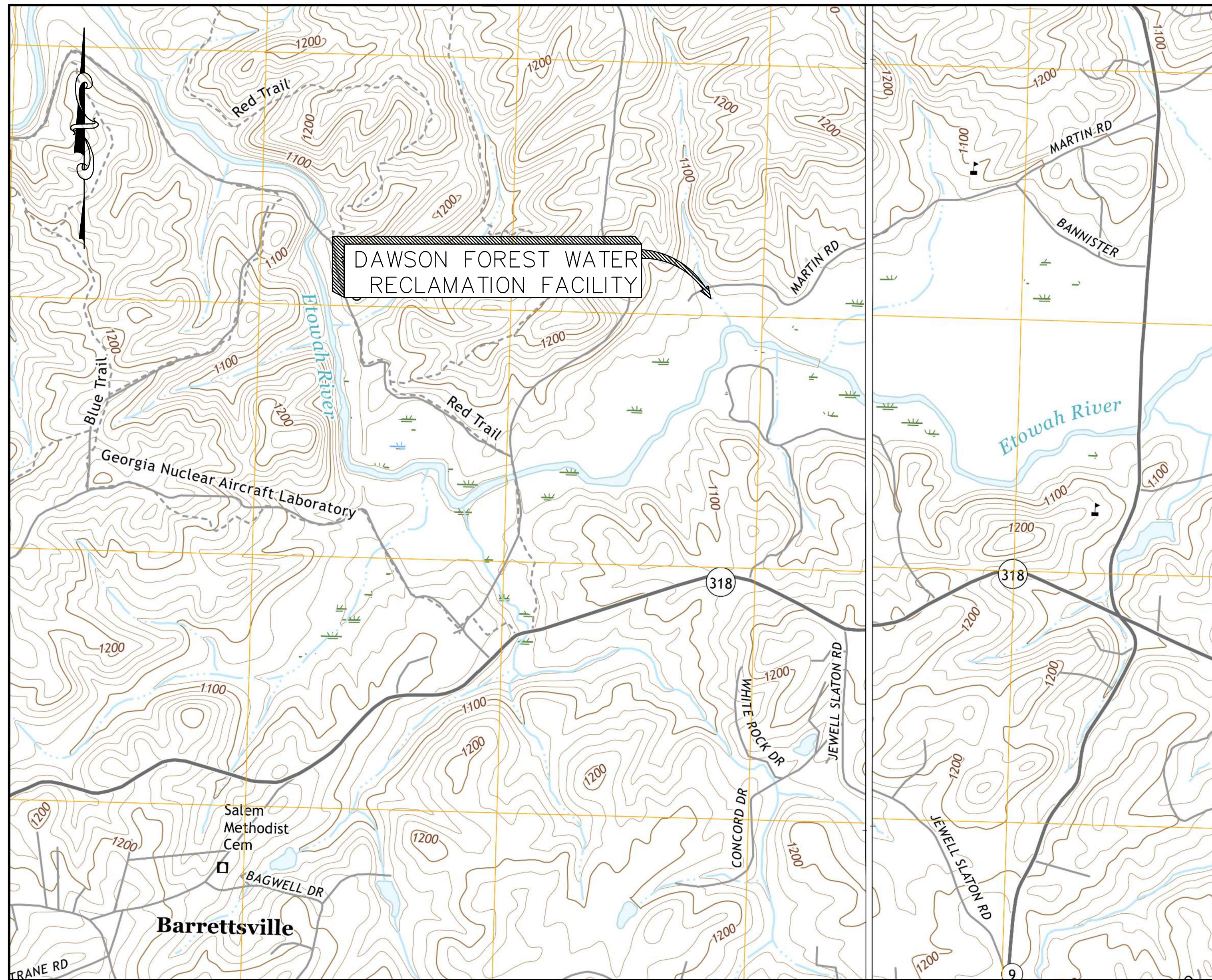
PROJECT: ETOWAH WATER & SEWER AUTHORITY
DAWSON FOREST WRF SLUDGE
DEWATERING UPGRADES
DAWSON COUNTY, GEORGIA

SHEET TITLE:
**MISCELLANEOUS CIVIL
DETAILS**

SCALE: AS SHOWN

DRAWING

C.04-1



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

	Without Base Flood Elevation (BFE) Zone AE, AO, AH, VE, AR
	Regulatory Floodway
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee See Notes Zone X
	NO SCREEN Area of Minimal Flood Hazard Zone X
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

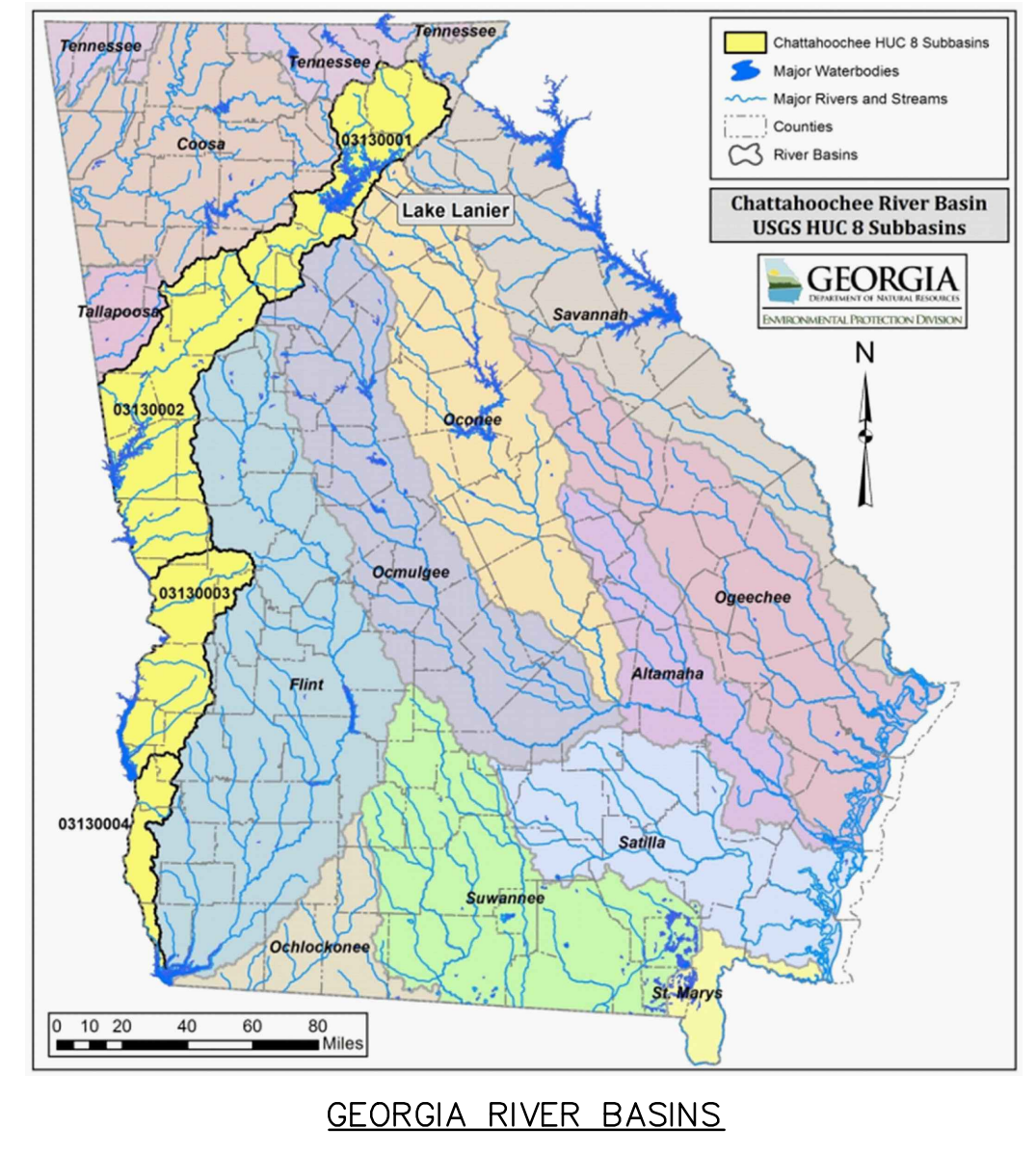
- ### EROSION CONTROL NOTES:
- PROJECT DESCRIPTION** - THE WORK CONSISTS OF CONSTRUCTING A NEW SLUDGE DEWATERING BUILDING AND VARIOUS SITE IMPROVEMENTS, INCLUDING YARD PIPING, TO REPLACE THE EXISTING BELT PRESS BUILDING, AS WELL AS GRADING AT THE NEW BUILDING. DEMOLITION WORK AS DETAILED ON THE DRAWINGS WILL BE REQUIRED AT THE EXISTING BELT PRESS BUILDING TO REMOVE THE BELT PRESS EQUIPMENT AND APPURTENANCES. THE TOTAL VOLUME OF EARTHWORK OF TRENCH CUT AND FILL AND SITE DEVELOPMENT IS APPROXIMATELY 125 CUBIC YARDS (C.Y.).
 CUT = 100 C.Y.
 FILL = 25 C.Y.
 - EXISTING SITE CONDITIONS AND ADJACENT AREAS** - THE MAJORITY OF THE EXISTING SITE IS MIX OF PAVED AREAS (ASPHALT, CONCRETE, & GRAVEL), WOODED, AND GRASSED AREAS. SLOPES RANGE FROM GENTLE TO STEEP SLOPES AND DRAINS INTO A CREEK THAT MUST BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. THE PROJECT RECEIVING WATER FOR THIS SITE IS THOMPSON CREEK. THOMPSON CREEK IS NOT LISTED AS AN IMPAIRED STREAM.
 - OWNER (PRIMARY PERMITTEE):**
 ETOWAH WATER & SEWER AUTHORITY
 1162 HIGHWAY 53 EAST
 DAWSONVILLE, GA 30534
 TIMC@ETOWAHWATER.ORG
 (706) 216-8474
 - 24 HR. CONTACT:**
 MR. TIM COLLINS
 ASSISTANT GENERAL MANAGER
 ETOWAH WATER & SEWER AUTHORITY
 1162 HIGHWAY 53 EAST
 DAWSONVILLE, GA 30534
 (706) 216-8474
 - DISTURBED ACREAGE** - THE TOTAL AREA OF LAND THAT WILL BE DISTURBED AT THIS SITE IS APPROXIMATELY 0.55 ACRES.
 - PRIOR TO ANY CONSTRUCTION**, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC RIGHT-OF-WAY.
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS**, ALL PERIMETER EROSION CONTROL DEVICES SHALL BE INSTALLED. EROSION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE OF LAND-DISTURBING ACTIVITIES PRIOR TO OR CONCURRENT WITH THE LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY PROJECT ENGINEER. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 - A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.**
 - WASTE MATERIALS** - ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED INTO THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK, OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS.
 - DISPOSAL OF DEBRIS** - NO CONSTRUCTION DEBRIS SHALL BE BURIED OR BURNED ON SITE. THE DEBRIS SHALL BE HAULED OFF SITE AND DISPOSED OF IN A PROPERLY PERMITTED LANDFILL BY THE GENERAL CONTRACTOR.
 - THIS DRAWING IS FOR EROSION CONTROL PURPOSES ONLY.** PROVISIONS TO PREVENT EROSION OF THE SOIL OF THE SITE SHALL CONFORM TO THE REQUIREMENTS OF THE "EROSION AND SEDIMENTATION ACT OF 1975" AS SHOWN HEREIN AND STIPULATED IN THE "MANUAL FOR EROSION CONTROL AND SEDIMENT CONTROL IN GEORGIA" BY THE STATE SOIL AND WATER CONSERVATION COMMITTEE. THE PROVISIONS IN THE MANUAL SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE EROSION OF THE DISTURBED AREAS AND PREVENT SEDIMENT FROM LEAVING THE SITE.
 - ANY ADDITIONAL SILT FENCE, RIP RAP, MULCHING, CHECK DAMS, OR PERMANENT GRASSING REQUIRED BY THE PLANS SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION HAS PROCEEDED TO THE POINT THAT THESE MEASURES CAN BE EFFECTIVELY IMPLEMENTED AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.** THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FROM ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING ANY PHASE OF CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
 - THE EROSION CONTROL MEASURES DETAILED HEREIN SHALL BE CONTINUED UNTIL THE PERMANENT DRAINAGE FACILITIES HAVE BEEN CONSTRUCTED AND UNTIL THE GRASS ON PLANTED SHOULDERS AND SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT.** THE SEDIMENT REMOVED FROM THE CONTROL STRUCTURES SHALL BE EVENLY DISTRIBUTED OUTSIDE CONSTRUCTION LIMITS. DISPOSED SEDIMENT SHALL BE PERMANENTLY GRASSED.
 - FLOOD HAZARD STATEMENT** - THIS PROJECT OCCURS OUTSIDE THE FLOOD PLAIN PER FEMA FIRM PANEL # 13085C0200C DATED APRIL 4, 2018.
 - THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT** WHEN THE SILT ACCUMULATES TO 6 INCHES OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
 - SILT FENCE SHALL BE PLACED DOWN GRADIENT** OF ALL STOCKPILED SOIL OR BORROW AREAS.
 - ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE (BOTTOM) OF SLOPES.**
 - A DOUBLE ROW OF TYPE "S" SILT FENCE OR HAY BALES AND TYPE "S" SILT FENCE SHALL BE REQUIRED WHEN PLACED ALONG STATE WATERS AND AT THE TOE OF SLOPES GREATER THAN 10' IN HEIGHT.**
 - TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPEDED.**
 - ALL DISTURBED AREAS WITH SLOPES 2:1 OR FLATTER WHICH ARE NOT STABILIZED BY OTHER MEASURES SUCH AS MULCHING SHALL BE SEED AS SPECIFIED IN "PERMANENT SEEDING."**
 - ALL VEGETATIVE STABILIZATION SHALL BE ACCOMPLISHED WITHIN ONE DAY OF CONSTRUCTION. IN ANY SITUATION, ALL CUT AND FILL SLOPES STEEPER THAN 3:1 MUST BE SURFACED ROUGHENED (Su) AND VEGETATED WITHIN THREE (3) DAYS OF CONSTRUCTION EXCEPT WHERE EROSION CONTROL MATTING OR BLANKETS ARE INSTALLED.**
 - WORK WILL BE DONE TO MINIMIZE EXPOSED AREAS.** GRASSING WILL BE SOWN ON A DISTURBED SECTION BEFORE MOVING TO ANOTHER SECTION. ADDITIONAL EROSION CONTROL REQUIREMENTS ARE INCLUDED IN THE CONSTRUCTION SPECIFICATIONS.
 - CONTRACTOR SHALL PROVIDE A 24-HOUR CONTACT FOR EROSION CONTROL PRIOR TO BEGINNING**

EROSION CONTROL CERTIFICATION:

- I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED.
- I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

PETER J. JOHNS
 WIEDEMAN AND SINGLETON, INC.
 PROFESSIONAL ENGINEER NO. 18758
 LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 19344

- ALL BMP'S WILL BE INSPECTED DAILY** AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL BMP'S WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- MULCHING ONLY (DS1)**
 DESCRIPTION: ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
- TEMPORARY SEEDING (DS2)**
 LIME: AS REQUIRED
 FERTILIZER: 500-700 POUNDS OF 10-10-10 PER ACRE.
 SEEDING: APPLY SEED FOR TEMPORARY VEGETATION PER VEGETATIVE COVER SCHEDULE ABOVE. MULCH: SHALL BE UNCHOPPED, UNROTTED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2.5 TONS PER ACRE. MULCH MATERIAL SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS WHICH ARE: CANADA THISTLE, JOHNSONGRASS AND QUACKGRASS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PEG AND TWINE METHOD. MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS.
- PERMANENT SEEDING (DS3)**
SEEDBED PREPARATION
 AREA TO BE SEEDBED SHALL BE LOOSE AND PLIABLE TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENEED BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOIL TEST RESULTS, APPLY 2 TONS OF DOLOMITIC LIMESTONE AND 1500 POUNDS OF 10-10-10 FERTILIZER PER ACRE. HARROW OR DISC LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1. NO ATTEMPT SHOULD BE MADE TO DRAG ANY DISCED AREA TO MAKE THE SOIL SURFACE SMOOTH AFTER DISCING.
SEEDING
 APPLY SEED FOR PERMANENT VEGETATION PER VEGETATIVE COVER SCHEDULE ABOVE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY) ON A MOIST, FIRM SEEDBED. MAXIMUM SEED DEPTH SHOULD BE 1/2 INCH IN CLAY SOILS AND 1 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE UNTIL VEGETATION IS FIRMLY ESTABLISHED IF SOIL MOISTURE IS NOT SUFFICIENT TO SUPPORT ADEQUATE GROWTH. ALL SEED SHALL BEAR THE GROWER'S ANALYSIS TESTING TO 98% FOR PURITY AND 90% FOR GERMINATION.
- LIMITS OF CLEARING** - ALL CONSTRUCTION ACTIVITIES AND LIMITS OF CLEARING SHALL BE WITHIN THE LIMITS OF CLEARING DETAILED. NO FILL TO BE PLACED WITHIN 100-YEAR FLOOD LIMITS.
- STREAM BUFFERS** - A 25' UNDISTURBED VEGETATIVE STREAM BUFFER MEETING STATE REGULATIONS WILL BE PRESERVED ADJACENT TO ALL RUNNING STREAMS AND CREEKS AND WILL BE LEFT UNDISTURBED OR OTHERWISE AS DETAILED.
- MAINTENANCE OF ALL EROSION CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER.**
- ANY SOIL OR DEBRIS ON ROAD WILL BE REMOVED DAILY OR IMMEDIATELY IF A HAZARDOUS ROAD CONDITION EXISTS.**
- EXPOSED SOIL WILL BE COVERED DAILY** USING Ds1, Ds2, or Ds3.
- SEE THE EROSION CONTROL PLANS AND DETAIL SHEETS FOR ADDITIONAL DETAILS AND REQUIREMENTS.**
- THE CONTRACTOR SHALL PROVIDE SECONDARY SPILL CONTAINMENT FOR ALL PETROLEUM (GASOLINE, DIESEL, ETC.) TANKS USED DURING CONSTRUCTION.**
- DRAINAGE BASINS**
 36.1. THE SLUDGE DEWATERING UPGRADES PROJECT DISTURBS APPROXIMATELY 0.55 ACRES OF GRASSED AND FLOOD AREA AT THE EXISTING DAWSON FOREST WRF SITE WITH NO NET CHANGE IN IMPERVIOUS AREAS. THE PROJECT IS LOCATED WITHIN THE COOSA RIVER BASIN, WHICH IS DETAILED ON THE MAP BELOW.



BY	PJJ	PJJ	PJJ	PJJ	PJJ
DESCRIPTION	60% REVIEW SET	90% REVIEW SET	REGULATORY REVIEW SET	BID READY SET	ADDENDUM NO. 1
DATE	11/22/2019	1/6/2020	1/24/2020	2/26/2020	4/2/2020
REV.	1	2	3	4	5

SEAL

OWNER

CONSULTANT INFORMATION

PROJECT MANAGER: PJJ
 DESIGNED BY: PJJ
 DRAWN BY: SKR/SPM
 CHECKED BY: PJJ
 FILENAME: DETAILS EROSION CONTROL NOTES & EROSION CONTROL CERTIFICATION
 PROJECT NO.: 273-18-210

PROJECT INFORMATION

PROJECT: ETOWAH WATER & SEWER AUTHORITY
 DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES
 DAWSON COUNTY, GEORGIA

SHEET TITLE: EROSION CONTROL NOTES & DETAILS I

SCALE: 1" = 30'

NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.

DRAWING SHEET 10 OF 44

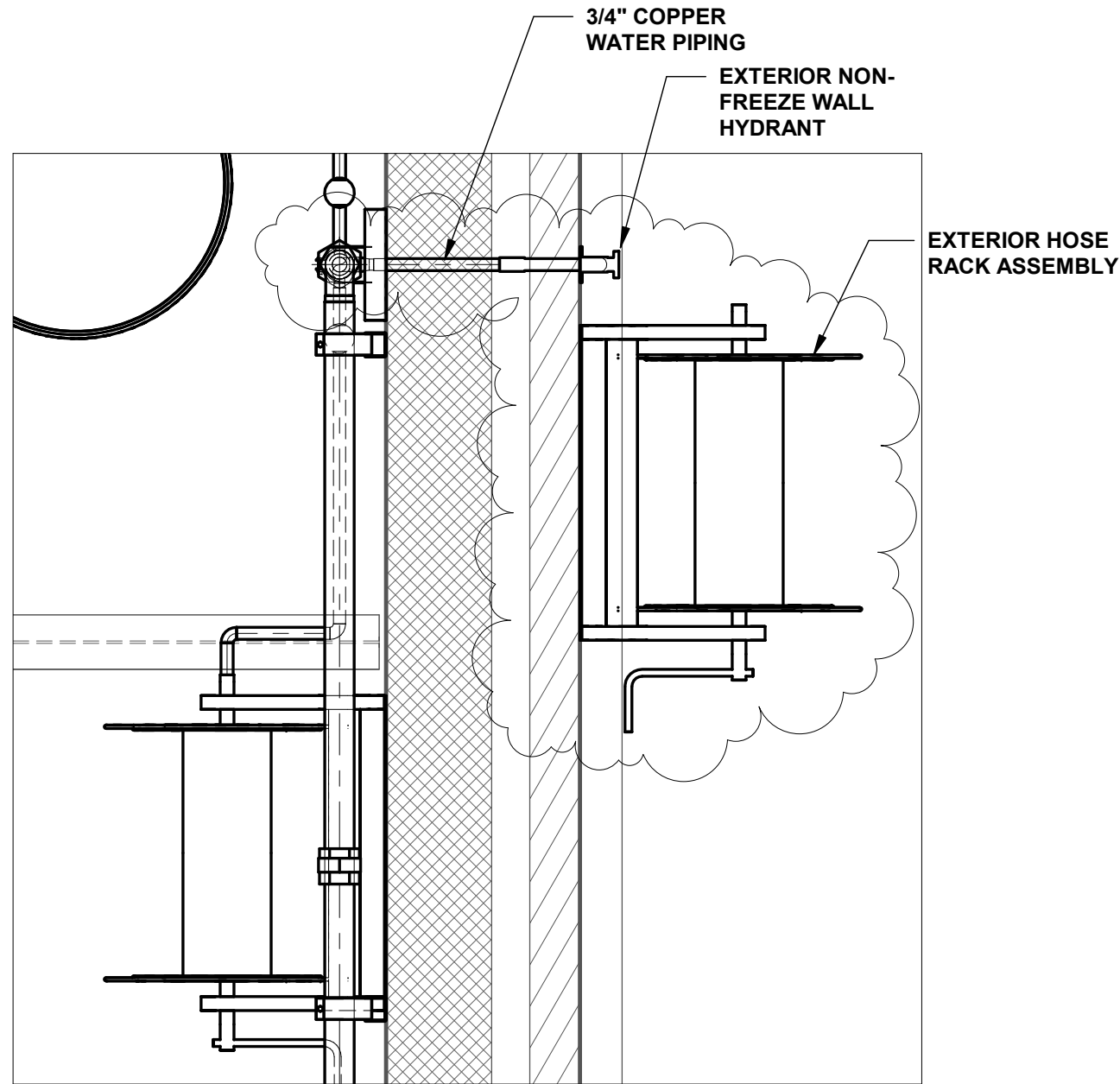
ESC.04

UTILITES PROTECTION CENTER OF GEORGIA

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

PETER J. JOHNS
 LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER 0000019344
 ISSUED: 11/01/2018 EXPIRES: 11/01/2021



1 DETAIL AT EXTERIOR HOSE RACK
1" = 1'-0"

INDICATES AREAS OF
ADDENDUM NO. 1 (TYP.)

REV.	DATE	DESCRIPTION	BY
4	2/26/2020	BID READY SET	PJJ
5	4/2/2020	ADDENDUM NO. 1	PJJ

OWNER



CONSULTANT



Wiedeman and Singleton Inc.
Civil and Environmental Engineers
3091 GOVERNORS LAKE DRIVE
SUITE 430
NORCROSS, GA 30071
(404) 876-5862
WWW.WIEDEMAN.COM

PROJECT:
**ETOWAH WATER & SEWER AUTHORITY
DAWSON FOREST WRF
SLUDGE DEWATERING UPGRADES
DAWSON COUNTY, GEORGIA**

SHEET TITLE:
**SOLIDS DEWATERING BUILDING
OPERATING FLOOR PLAN**

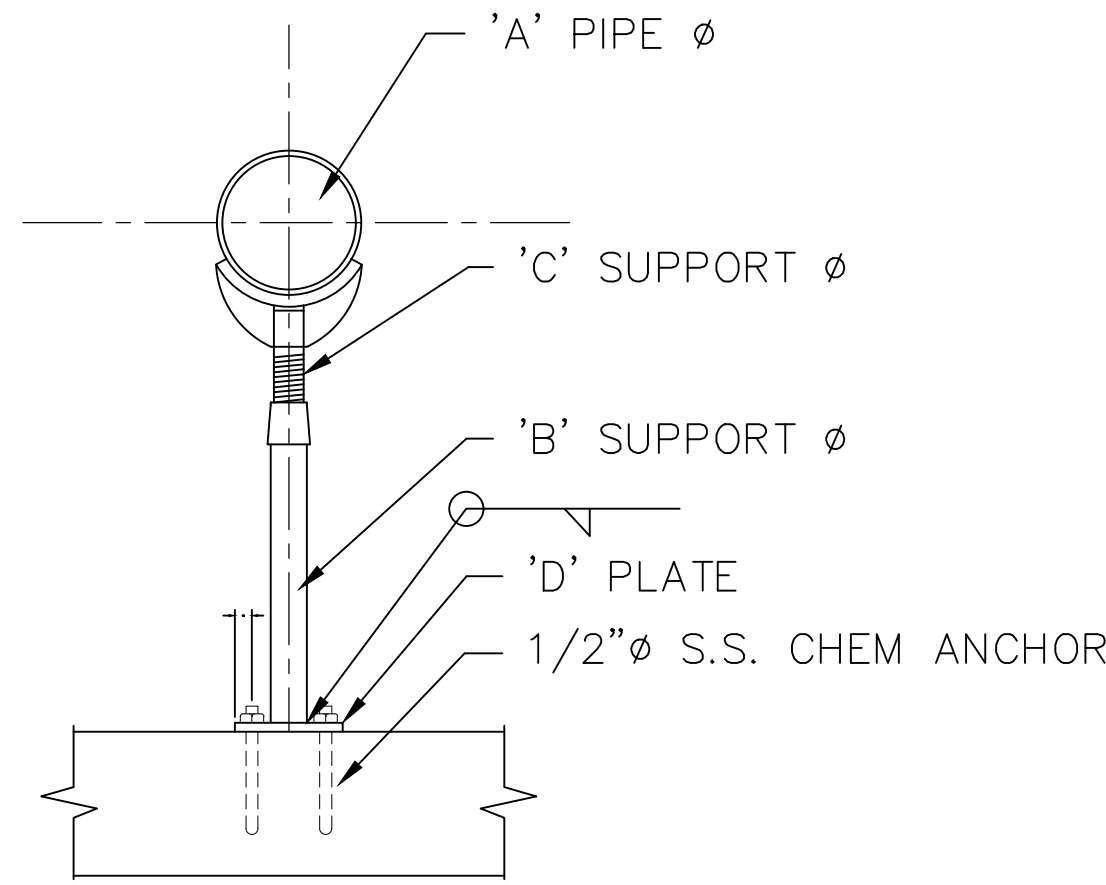
SCALE: 1" = 1'-0"



SHEET
M.03-1

GENERAL PIPE SUPPORT NOTES:
INCLUDE VALVES & FITTINGS IN ADDITION TO PIPE WEIGHT
WHEN DETERMINING SUPPORT SPACING.

CONTRACTOR CAN USE OTHER TYPES OF PIPE SUPPORTS
(SUCH AS GRINNELL FIG. 199 WITH U-BOLT) WHEN
APPROVED BY THE ENGINEER.

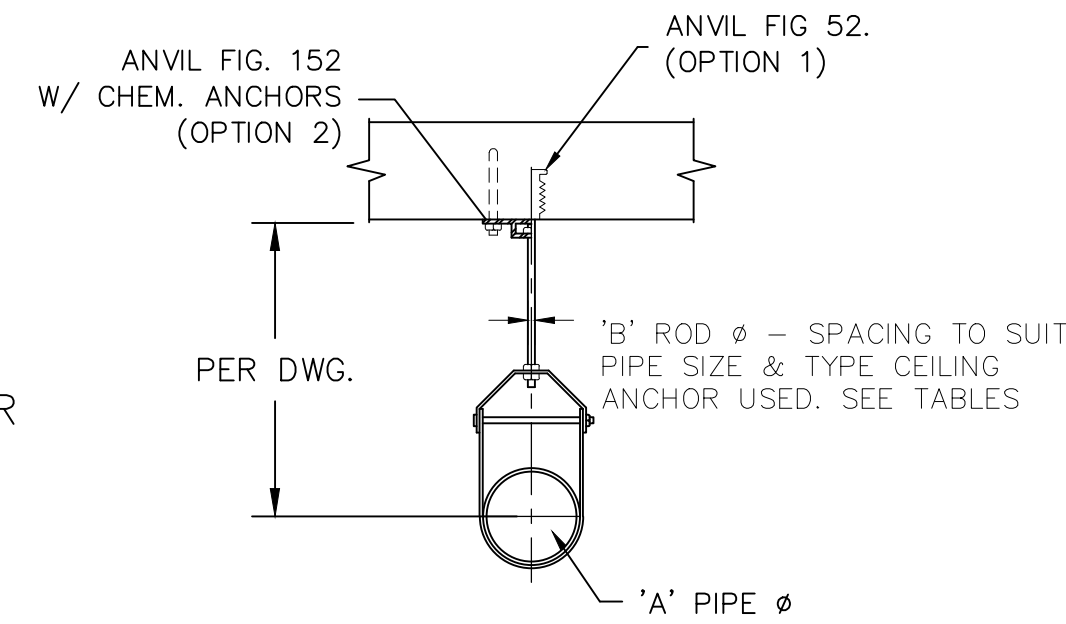


USE ANVIL FIG. 259 IF SUPPORT MUST HANDLE
UPWARD FORCES.

'A' PIPE SIZE	'B'	'C'	'D' PLATE SIZE
4" - 12"	3	2.5	1/4" X 9" X 9"
14" - 16"	4	3	1/4" X 12" X 12"
18" - 36"	6	4	1/4" X 16" X 16"

P.S.#2 TYPICAL ADJUSTABLE PIPE SUPPORT
N.T.S. (ANVIL FIG. 264 OR EQUAL)

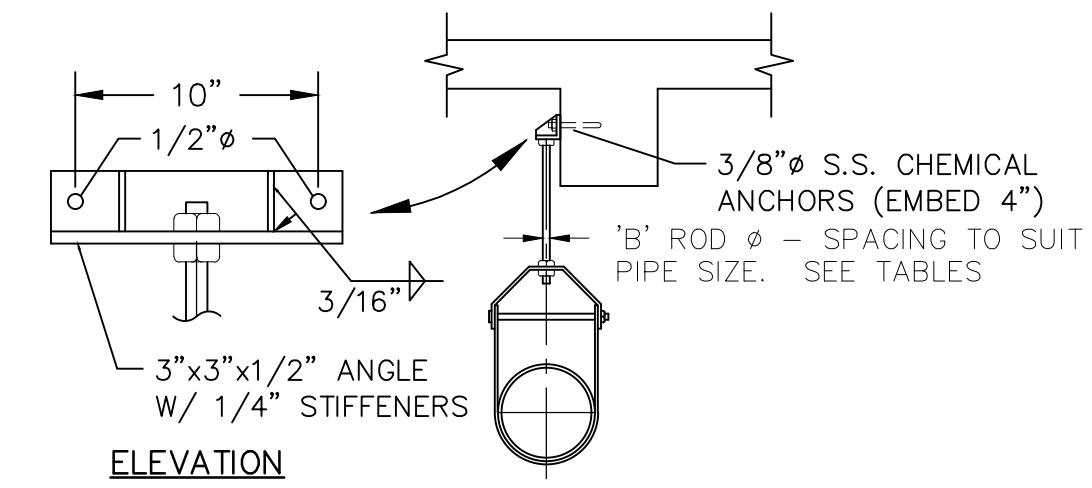
'B' ROD SIZE	FIG. 152 MAX LOAD (LBS)	FIG 52 MAX LOAD (LBS)
3/8"	610	610
1/2"	1130	1130
5/8"	1260	1810
3/4"	2500	2710
7/8"	2550	3770
1"	---	4960



"ALL THREAD ROD" NOT TO BE USED FOR ROD.
CONTRACTOR HAS OPTION TO USE EITHER FIG. 52
OR 152 TO SECURE TO CEILING.

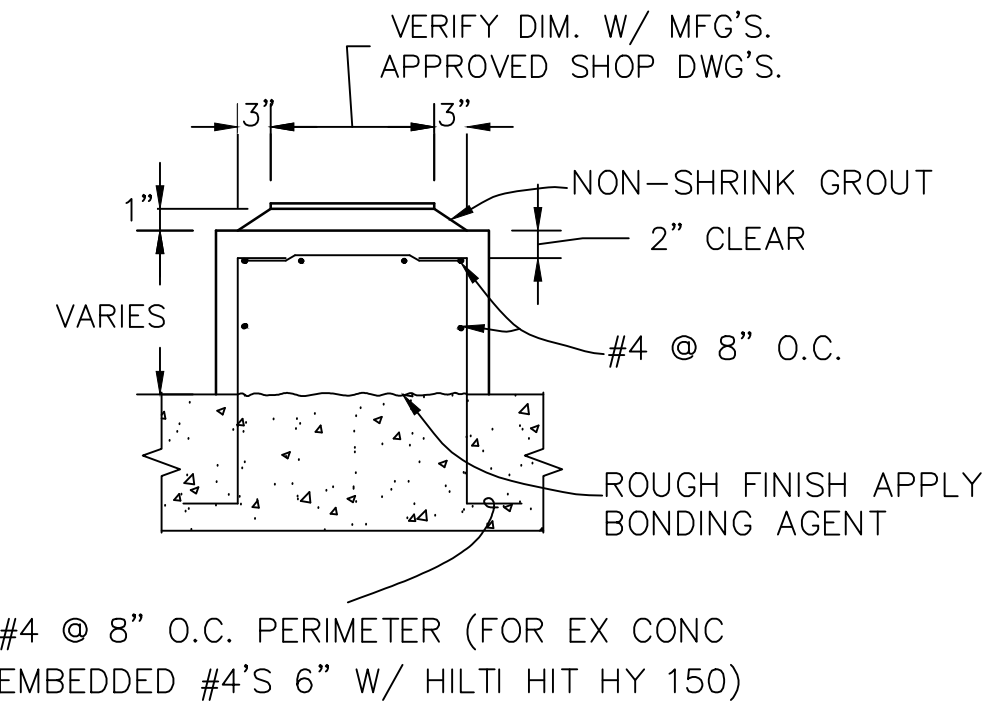
'A' PIPE SIZE	'B' ROD SIZE	MAX LOAD (LBS)	CLEVIS MODEL
< 1"	3/8"	250	65
1" - 2"	3/8"	250	65
2" - 3"	1/2"	350	65
4"	1/2"	400	65
6"	3/4"	1940	260
8"	3/4"	2000	260
10"	7/8"	3600	260
12"	7/8"	3800	260

P.S.#3 TYPICAL PIPE HANGER SUPPORT
N.T.S. (ANVIL FIG. 65, 260 OR EQUAL)



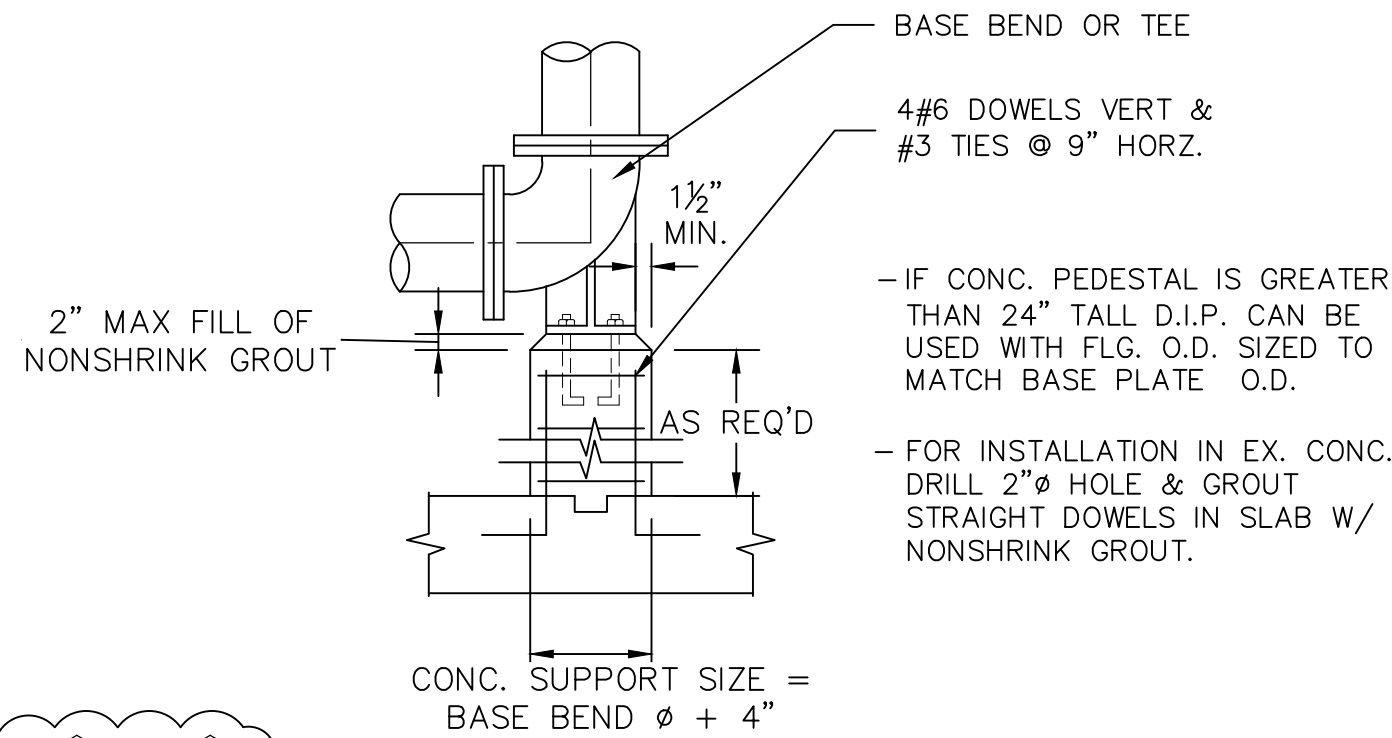
'B' ROD SIZE	FIG 49 MAX LOAD (LBS)
3/8"	610
1/2"	1130
5/8"	1810
3/4"	2710
7/8"	3770
1"	4960
1 1/4"	8000

P.S.#4 TYPE II PIPE HANGER SUPPORT DETAIL
N.T.S.

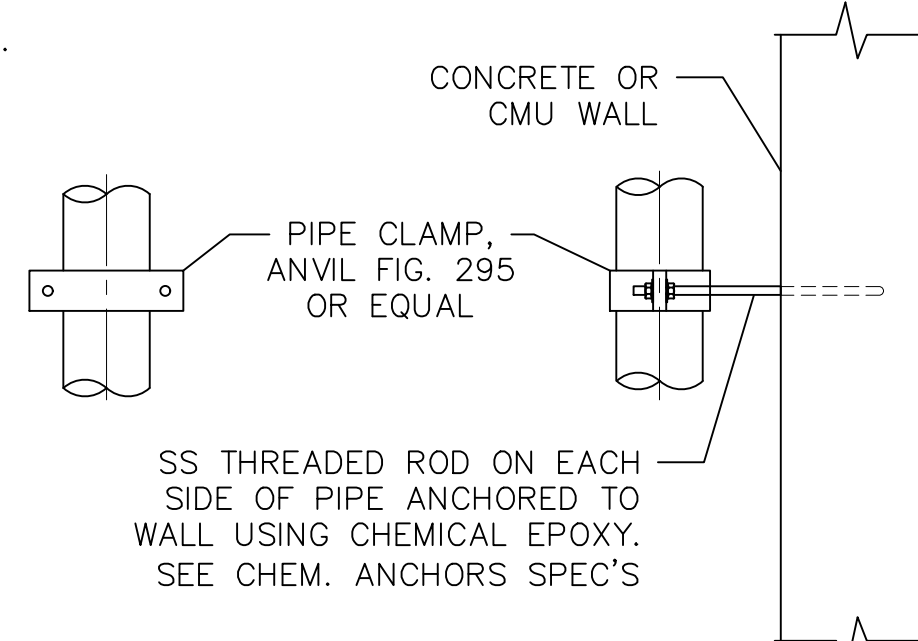


#4 @ 8" O.C. PERIMETER (FOR EX CONC
EMBEDDED #4'S 6" W/ HILTI HIT HY 150)

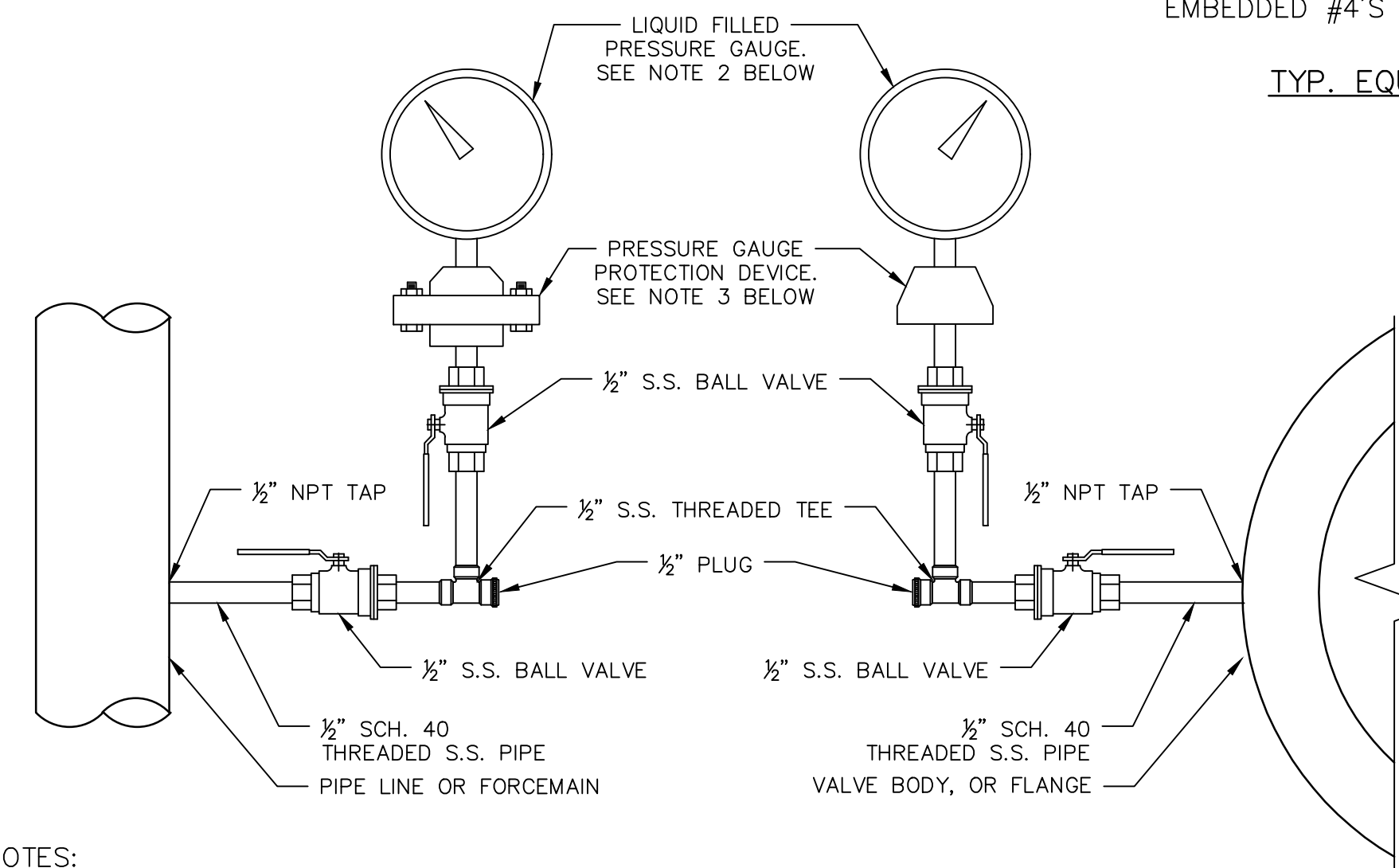
TYP. EQUIP. PAD DETAIL
N.T.S.



P.S.#12 P.S.#5 TYPICAL BASE BEND SUPPORT
N.T.S.



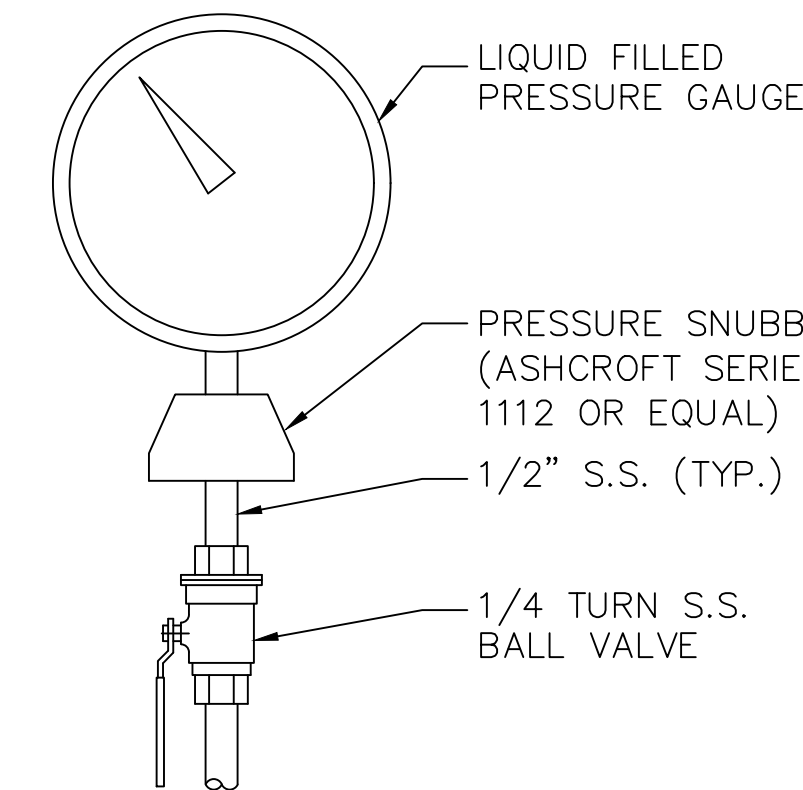
P.S.#7 PIPE CLAMP SUPPORT
N.T.S.



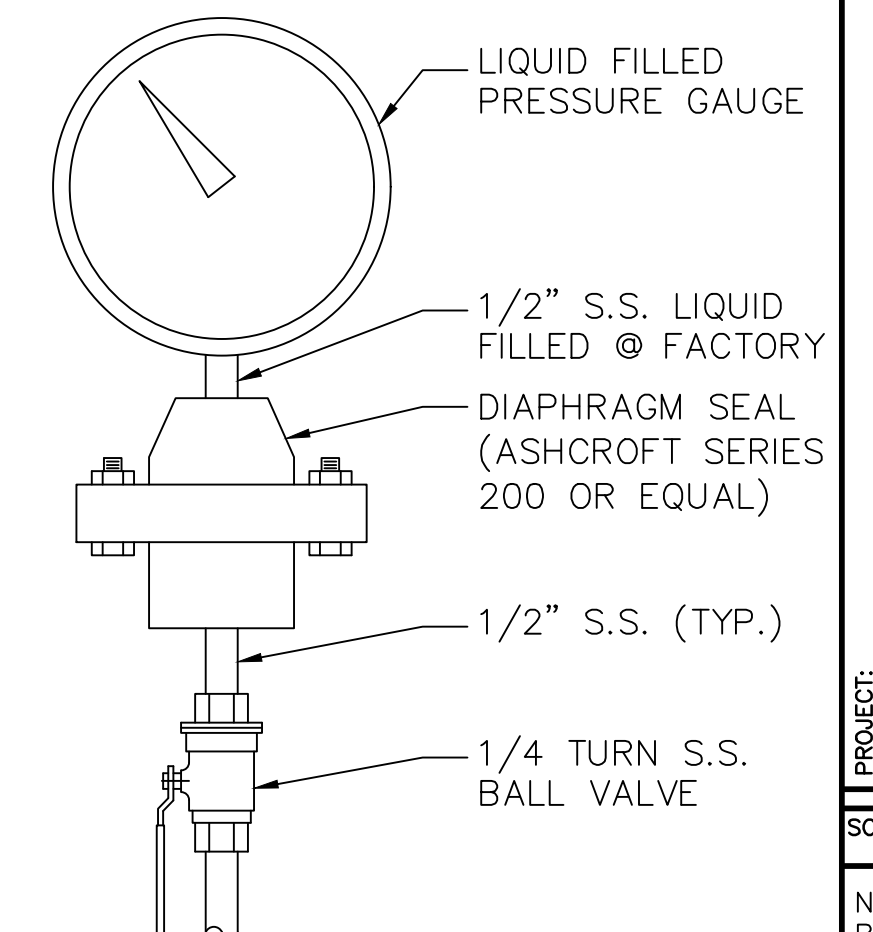
NOTES:

- ALL PIPES, VALVES, AND FITTINGS SHALL BE STAINLESS STEEL (S.S.) U.N.O.
 - WHERE PRESSURE GAUGE (OR TRANSMITTER) ASSEMBLIES WILL BE INSTALLED IN CHEMICAL FEED AREAS, OR CORROSIVE ENVIRONMENTS, THE MATERIALS OF THE GAUGE (OR TRANSMITTER), PIPES, VALVES, FITTINGS, & ACCESSORIES SHALL BE COMPATIBLE WITH ENVIRONMENTS IN WHICH THEY WILL BE INSTALLED.
- PRESSURE GAUGE REQUIREMENTS:
 - PRESSURE GAUGE SHALL BE ASHCROFT SERIES 1279 OR EQUAL U.N.O.
 - WHERE PRESSURE GAUGE WILL BE INSTALLED OUTDOORS AND EXPOSED TO DIRECT SUNLIGHT, THEN USE ASHCROFT SERIES 1109 OR EQUAL.
 - PRESSURE GAUGE UNITS SHALL BE IN POUNDS PER SQUARE INCH (PSI). UNITS OF VACUUM FOR COMPOUND GAUGES SHALL BE IN INCHES OF MERCURY (in.Hg).
 - PRESSURE GAUGE RANGES SHALL BE AS NOTED ON THE DRAWINGS OR SPEC'S. IF NO RANGE IS DETAILED, THEN THE MINIMUM RANGE SHALL BE PER THE FOLLOWING REQUIREMENTS:
 - FOR PUMP DISCHARGE; 0 PSI TO THE PUMPS SHUT-OFF PRESSURE.
 - FOR PUMP SUCTION; 30 in.Hg TO 15 PSI.
 - FOR PIPES OR FORCEMAINS; 0 PSI TO TWO (2) TIMES THE NORMAL OPERATING PRESSURE.
 - PRESSURE GAUGES SHALL BE MOUNTED VERTICALLY U.N.O. OR AS REQUIRED FOR ACCESS/VIEWING.
- PRESSURE GAUGE PROTECTION DEVICE SHALL BE AS REQUIRED FOR GAUGE APPLICATION:
 - FOR POTABLE WATER USE A PRESSURE SNUBBER (ASHCROFT SERIES 1112 OR EQUAL).
 - FOR WASTEWATER OR CHEMICAL FEED USE A DIAPHRAGM SEAL (ASHCROFT SERIES 200 OR EQUAL).
 - DIAPHRAGM MATERIAL SHALL BE COMPATIBLE WITH CHEMICAL.
- NPT TAP (1" MAX.) ON FLANGES OR VALVES SHALL BE INSTALLED AT FACTORY. VERIFY TAP SIZE WITH EQUIPMENT, VALVE, OR FLANGE MANUFACTURER.
 - TAP SHALL BE MADE SUCH THAT THE 1/2" PIPE WILL BE HORIZONTAL (LEVEL) OR VERTICAL (PLUMB).

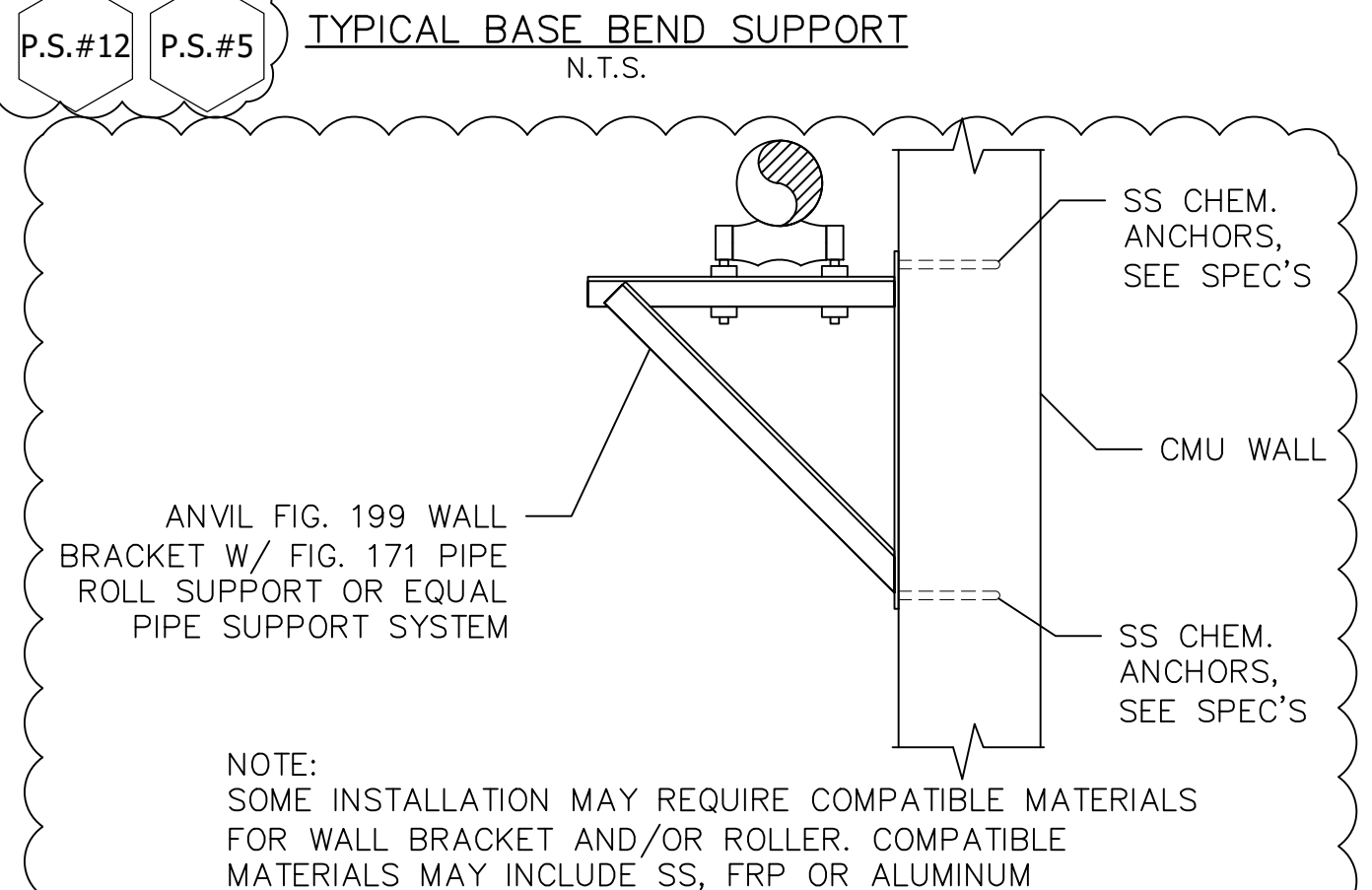
1 PRESSURE GAUGE ASSEMBLY: INTERIOR APPLICATION
Scale: N.T.S.



PRESSURE GAUGE ASSEMBLY
(WATER)
N.T.S.



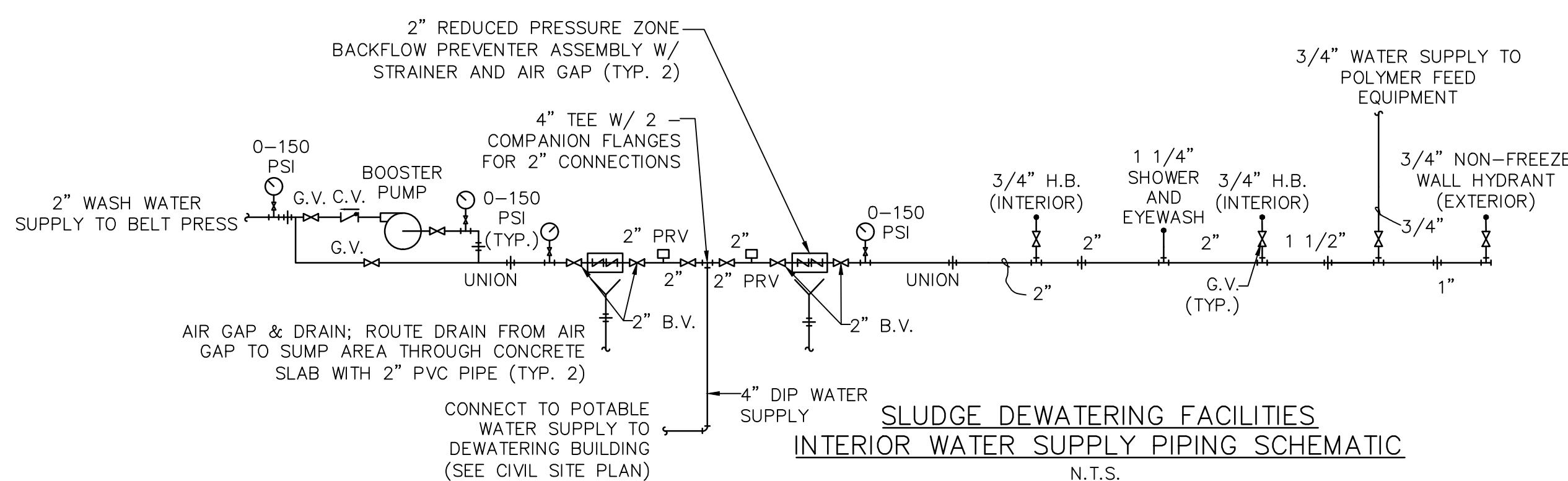
PRESSURE GAUGE ASSEMBLY
(WASTEWATER)
N.T.S.



P.S.#8 WALL BRACKET SUPPORT
N.T.S.

WATER SUPPLY PIPING NOTES:

- ALL INTERIOR PIPING TO BE COPPER.
- PROVIDE TRANSITION FITTINGS AS REQ'D.
- SEE MECHANICAL DRAWINGS FOR LOCATION OF MAJOR FITTINGS AND APPURTENANCES. FIELD LOCATE AND SUPPORT PIPING AND FITTINGS AS REQUIRED.
- INSTALL UNIONS (NOT SHOWN) IN APPROXIMATELY EVERY 10 FEET OF PIPING RUN.
- SEE P&ID DRAWINGS FOR WATER SUPPLY SOLENOID VALVE LOCATIONS. SOLENOID VALVE SIZES TO MATCH SIZE OF SUPPLY PIPING SHOWN.
- CONTRACTOR RESPONSIBLE FOR FIELD ROUTING SMALL PIPING NOT SHOWN AND FURNISHING AND INSTALLING REQUIRED PIPE SUPPORTS; SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



SLUDGE DEWATERING FACILITIES
INTERIOR WATER SUPPLY PIPING SCHEMATIC
N.T.S.

REV.	DATE	DESCRIPTION
1	11/22/2019	60% REVIEW SET
2	1/6/2020	90% REVIEW SET
3	1/24/2020	REGULATORY REVIEW SET
4	2/26/2020	BID READY SET
5	4/2/2020	ADDENDUM NO. 1



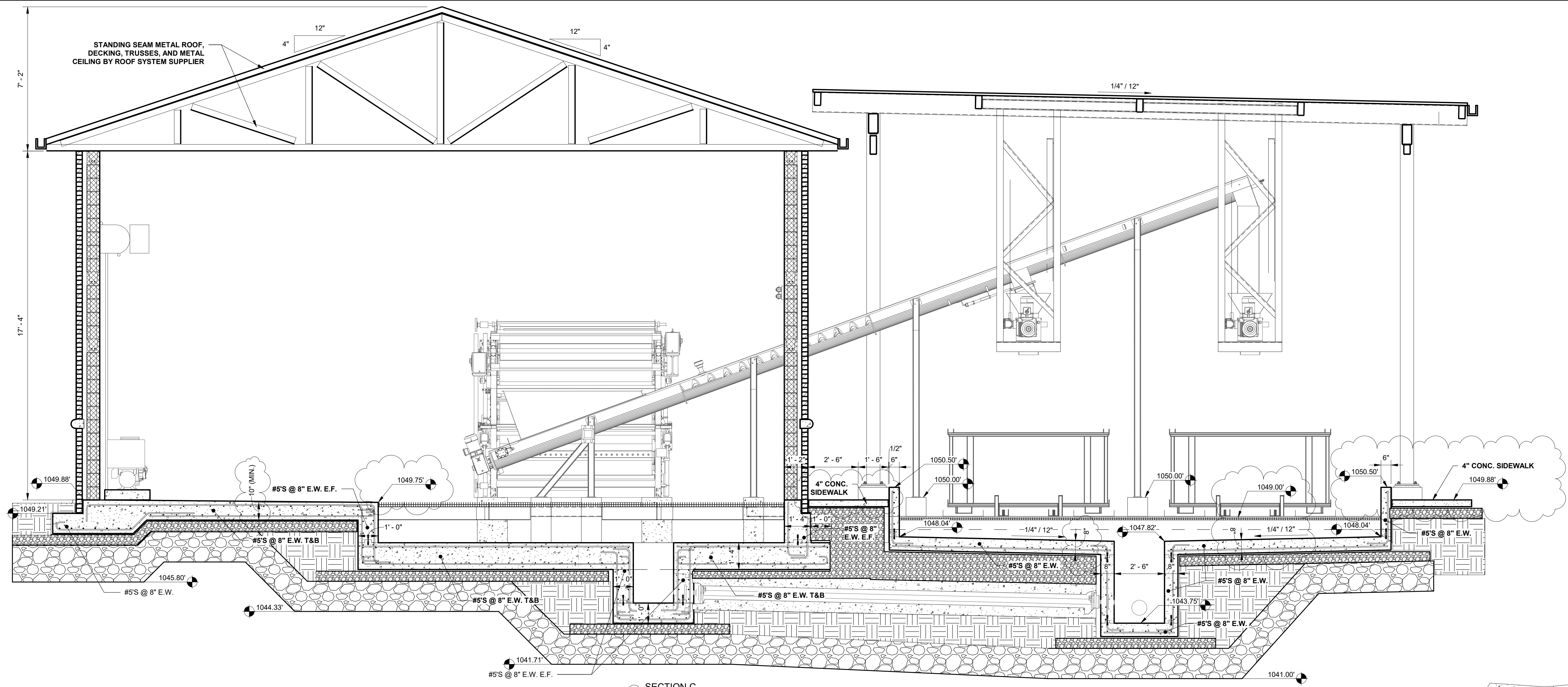
CONSULTANT INFORMATION
PROJECT MANAGER: PJJ
DESIGNED BY: AAA
DRAWN BY: AAA
CHECKED BY: PJJ
OR MECHANICAL
FILENAME: DETAILS.M8
PROJECT NO.: 273-18-210



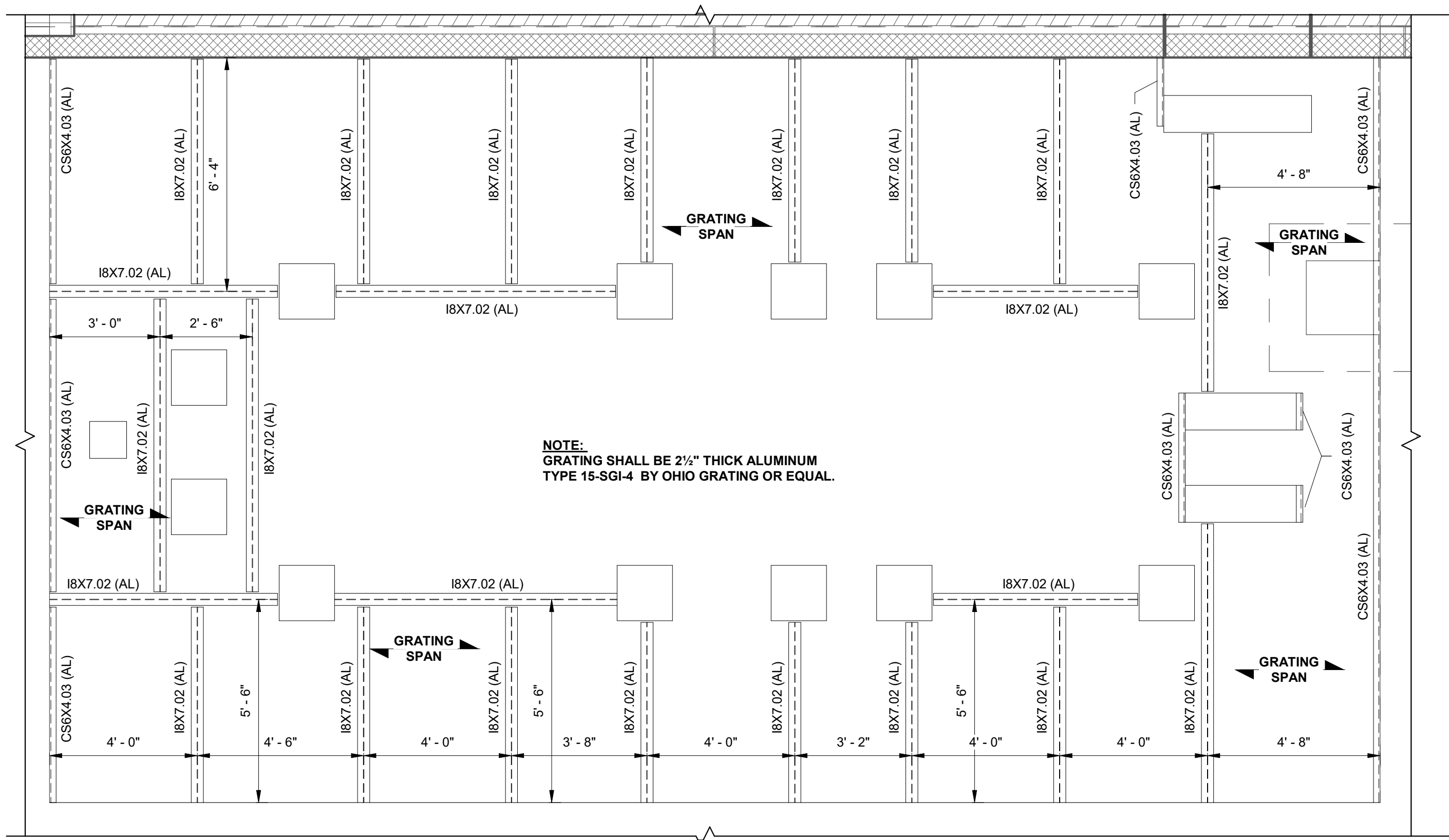
PROJECT INFORMATION

ETOWAH WATER & SEWER AUTHORITY
DAWSON FOREST WRF SLUDGE
DEWATERING UPGRADES
DAWSON COUNTY, GEORGIA
PROJECT: MISC
SHEET TITLE: MISCELLANEOUS MECHANICAL
DETAILS

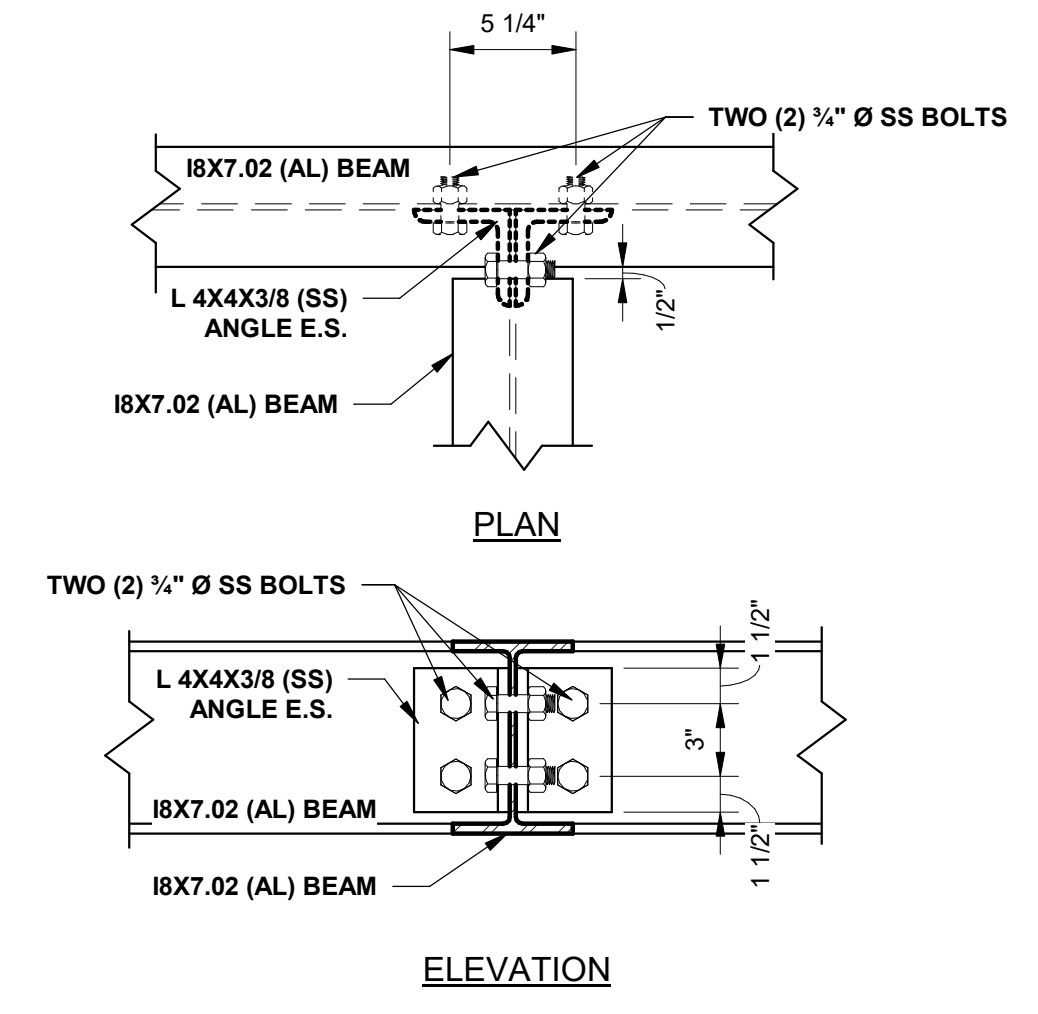
SCALE: AS SHOWN
NOTE: DRAWING SCALE IS
BASED ON 24x36 SHEETS.
DRAWING M.08 SHEET 20 OF 44



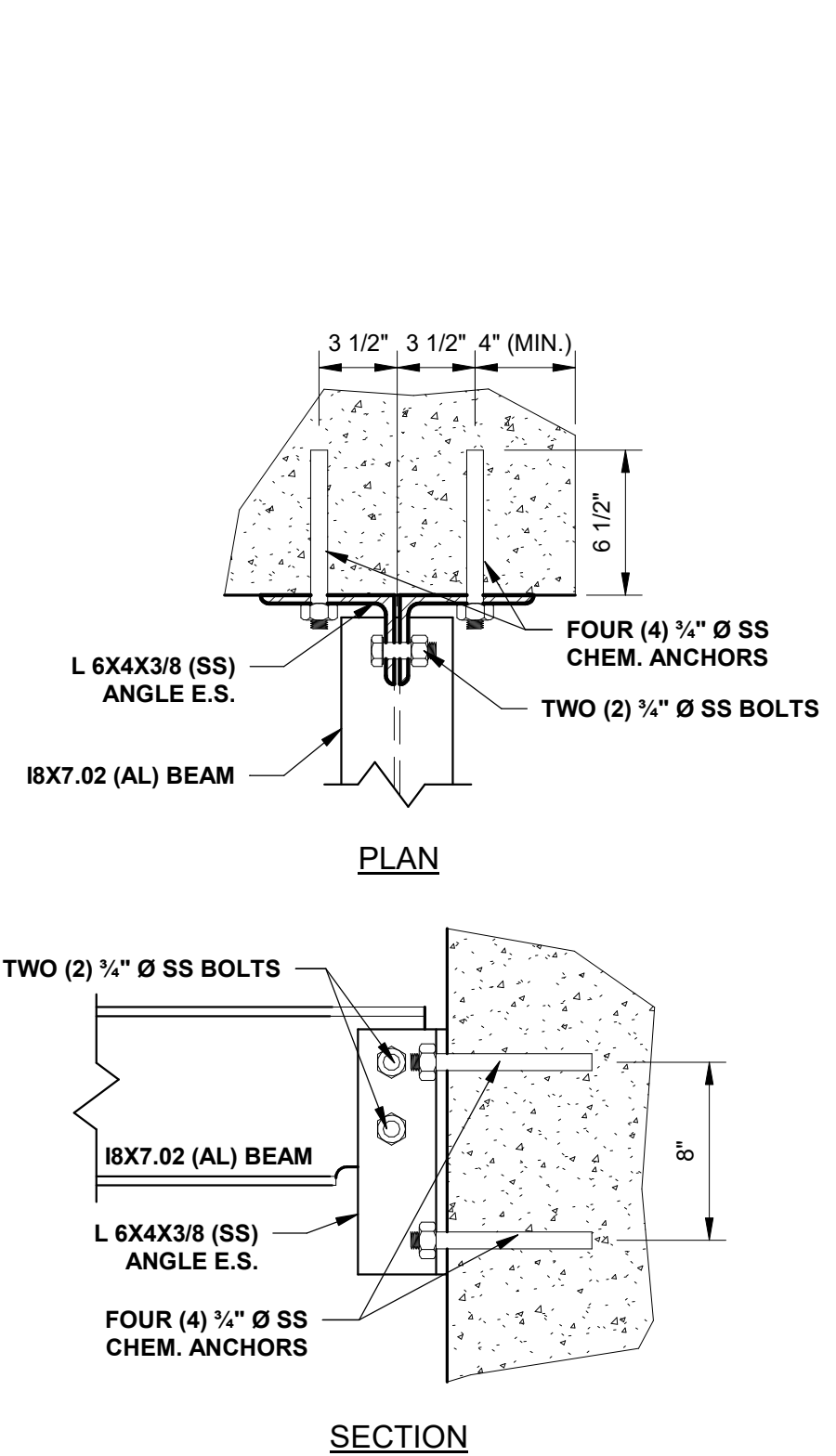
C SECTION C
3/8" = 1'-0"



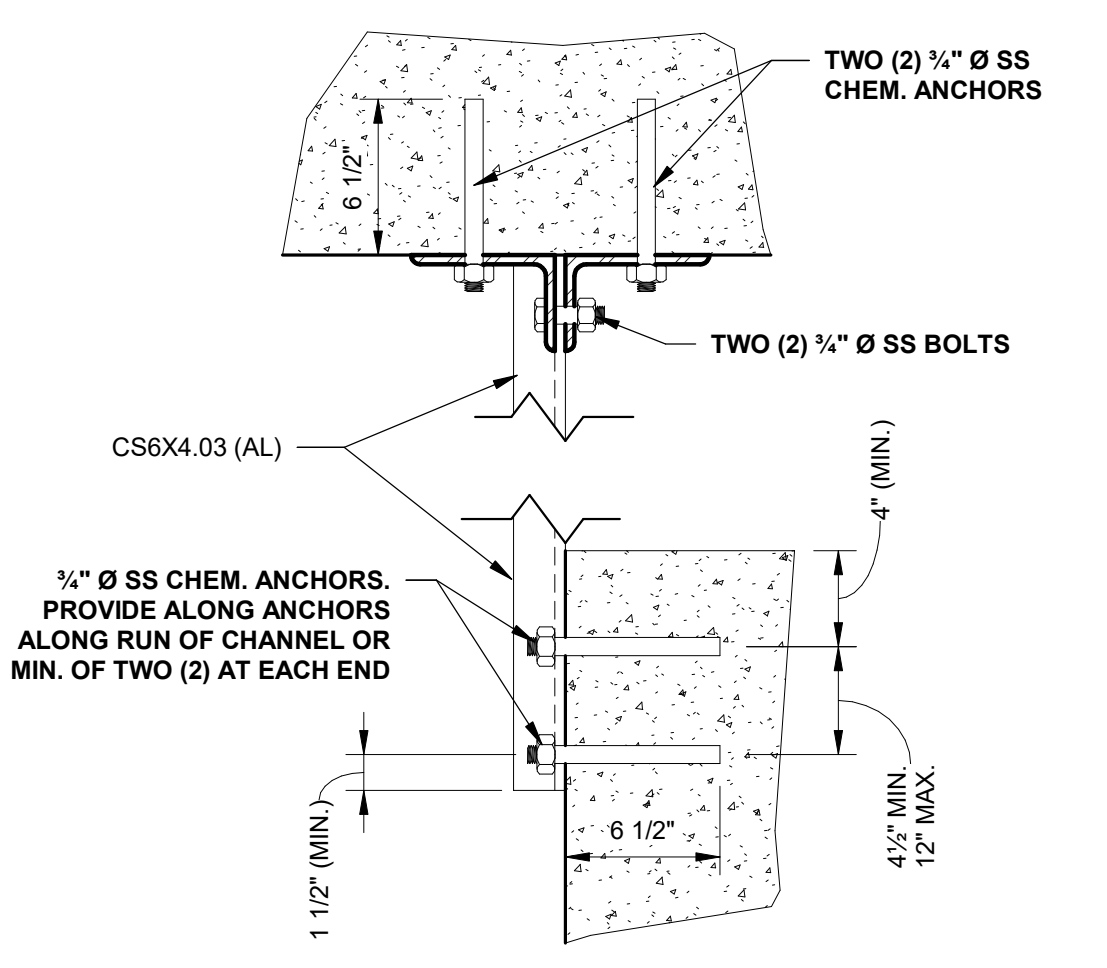
1 PRESS DRAIN AREA FRAMING PLAN
3/8" = 1'-0"



2 ALUMINUM BEAM TO BEAM CONNECTION DETAIL
1 1/2" = 1'-0"

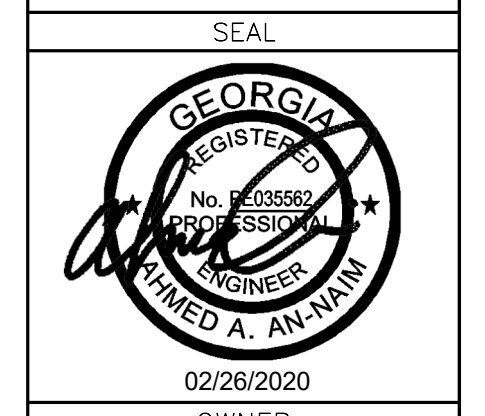


3 ALUMINUM BEAM TO CONCRETE CONNECTION DETAIL
1 1/2" = 1'-0"



4 ALUMINUM CHANNEL TO CONCRETE CONNECTION DETAIL
1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION
1	11/22/2019	60% DESIGN SET
2	1/6/2020	90% DESIGN SET
3	1/24/2020	REGULATORY REVIEW SET
4	2/26/2020	BID READY SET
5	4/2/2020	ADDENDUM NO. 1



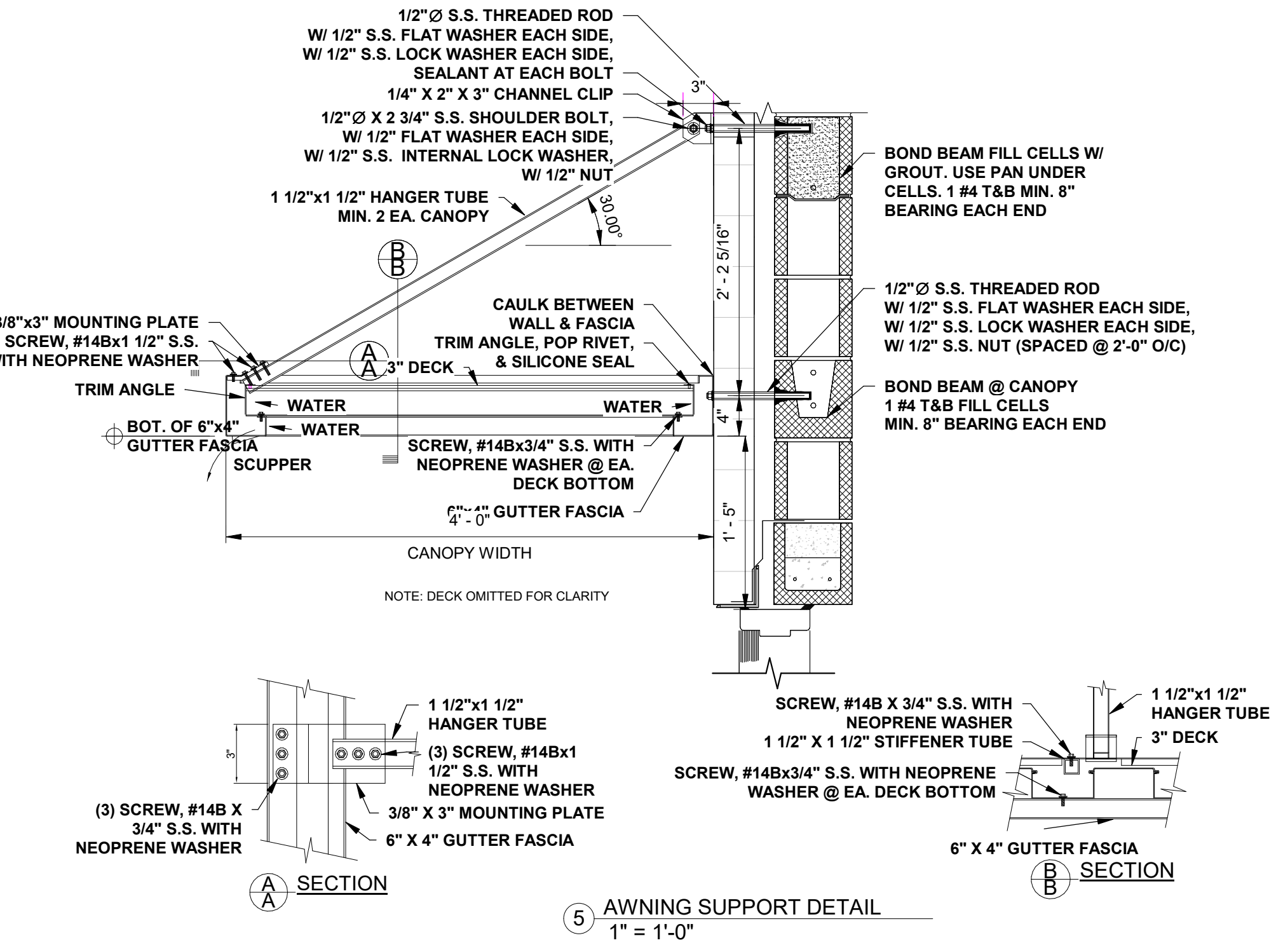
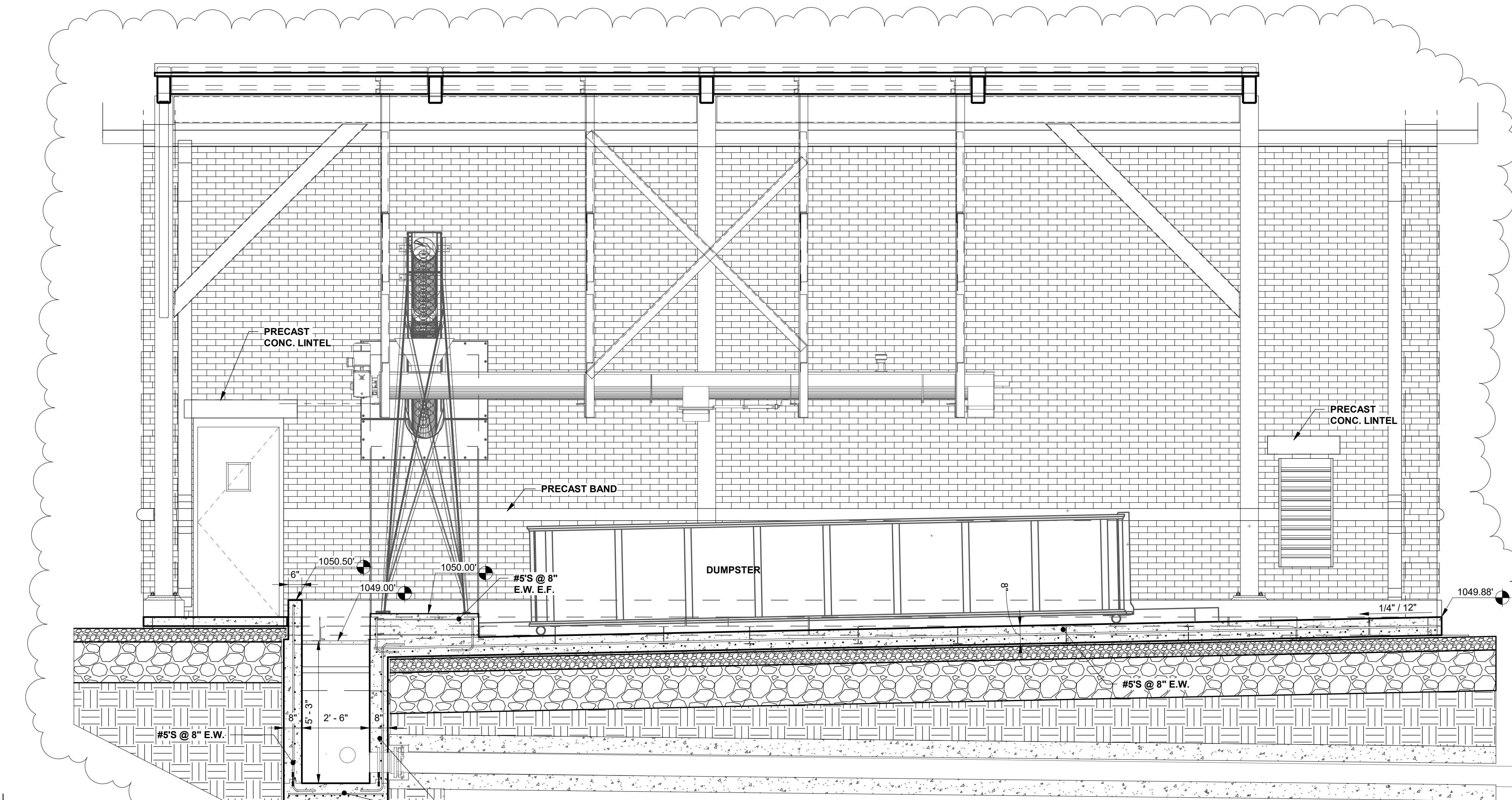
CONSULTANT INFORMATION	
PROJECT MANAGER:	PJJ
DESIGNED BY:	PJJ
DRAWN BY:	SKR
CHECKED BY:	AAA
FILE NAME:	FILE NAME
PROJECT NO.:	169-18-110



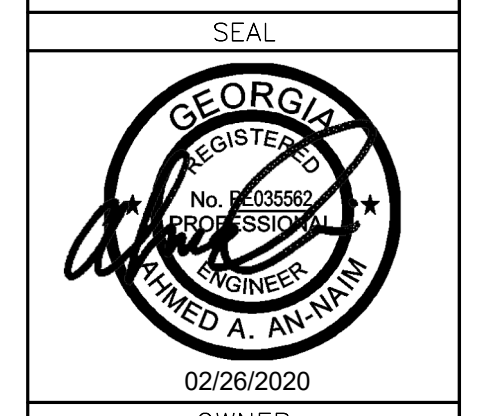
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PROJECT:	ETOWAH WATER & SEWER AUTHORITY DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES DAWSON COUNTY, GEORGIA
SHEET TITLE:	SOLIDS DEWATERING BUILDING SECTIONS & DETAILS II

SCALE:	As indicated
NOTE:	DRAWING SCALE IS BASED ON 24X36 SHEETS.
DATE:	2/26/2020
DRAWING:	S.08
SHEET:	27 OF 44

4/12/2020 2:33:33 PM BIM 360://ETOWAH - Dawson Forest/Proposed Dewatering Building.dwg



REV.	DATE	DESCRIPTION
1	11/22/2019	60% DESIGN SET
2	1/6/2020	90% DESIGN SET
3	1/24/2020	REGULATORY REVIEW SET
4	2/26/2020	BID READY SET
5	4/2/2020	ADDENDUM NO. 1

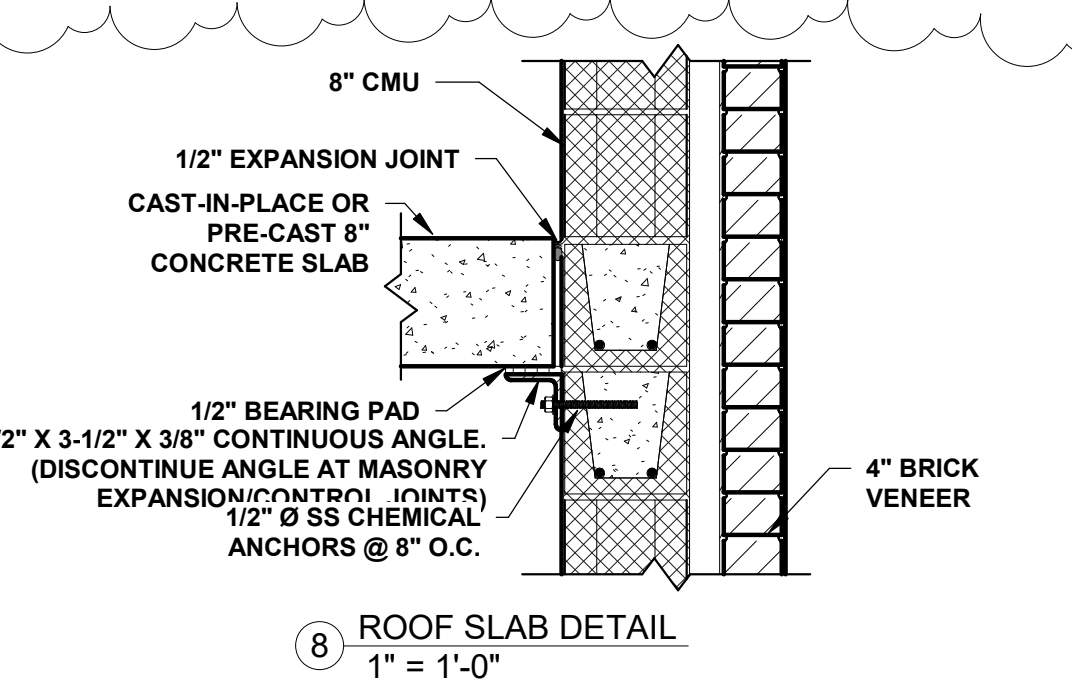
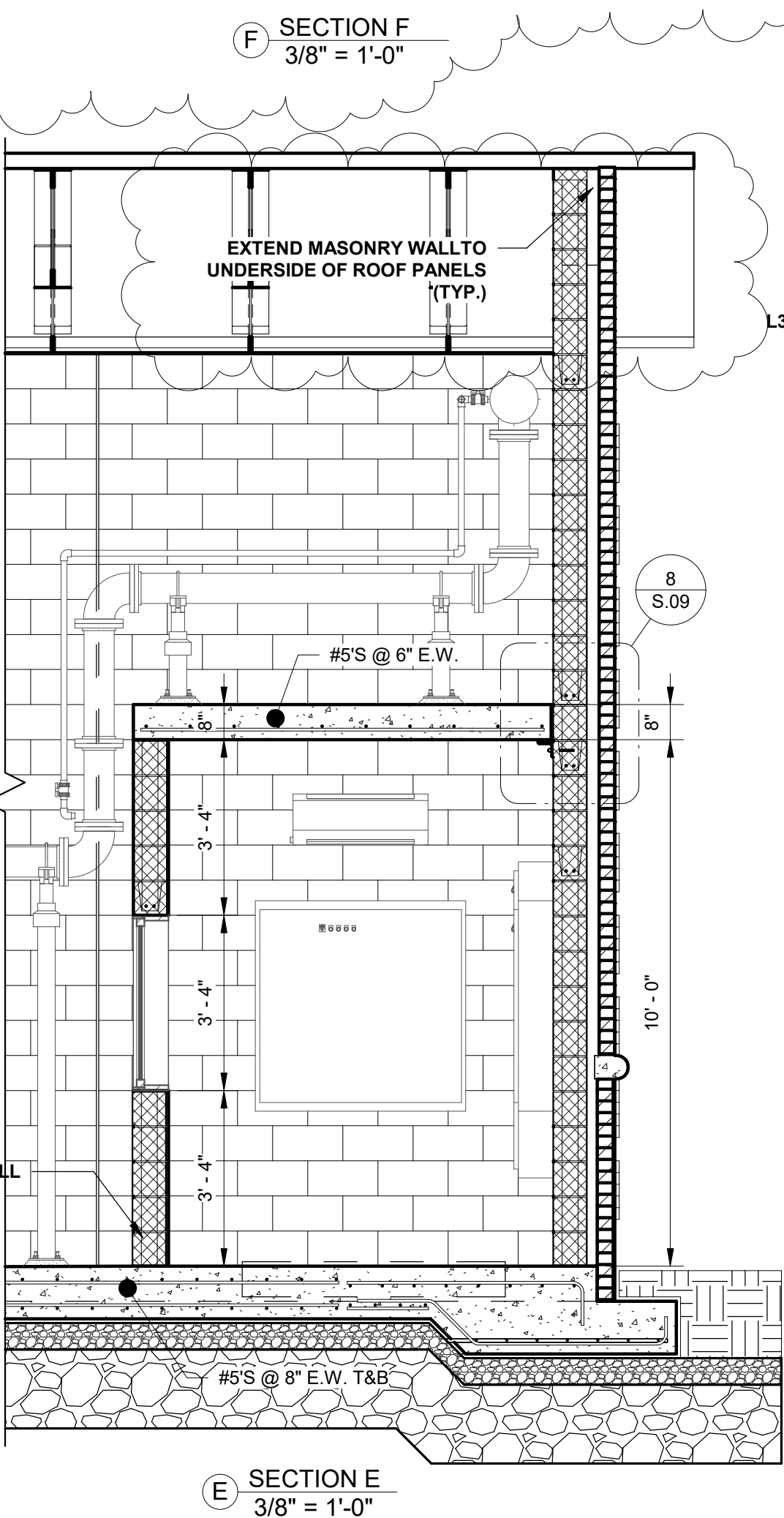
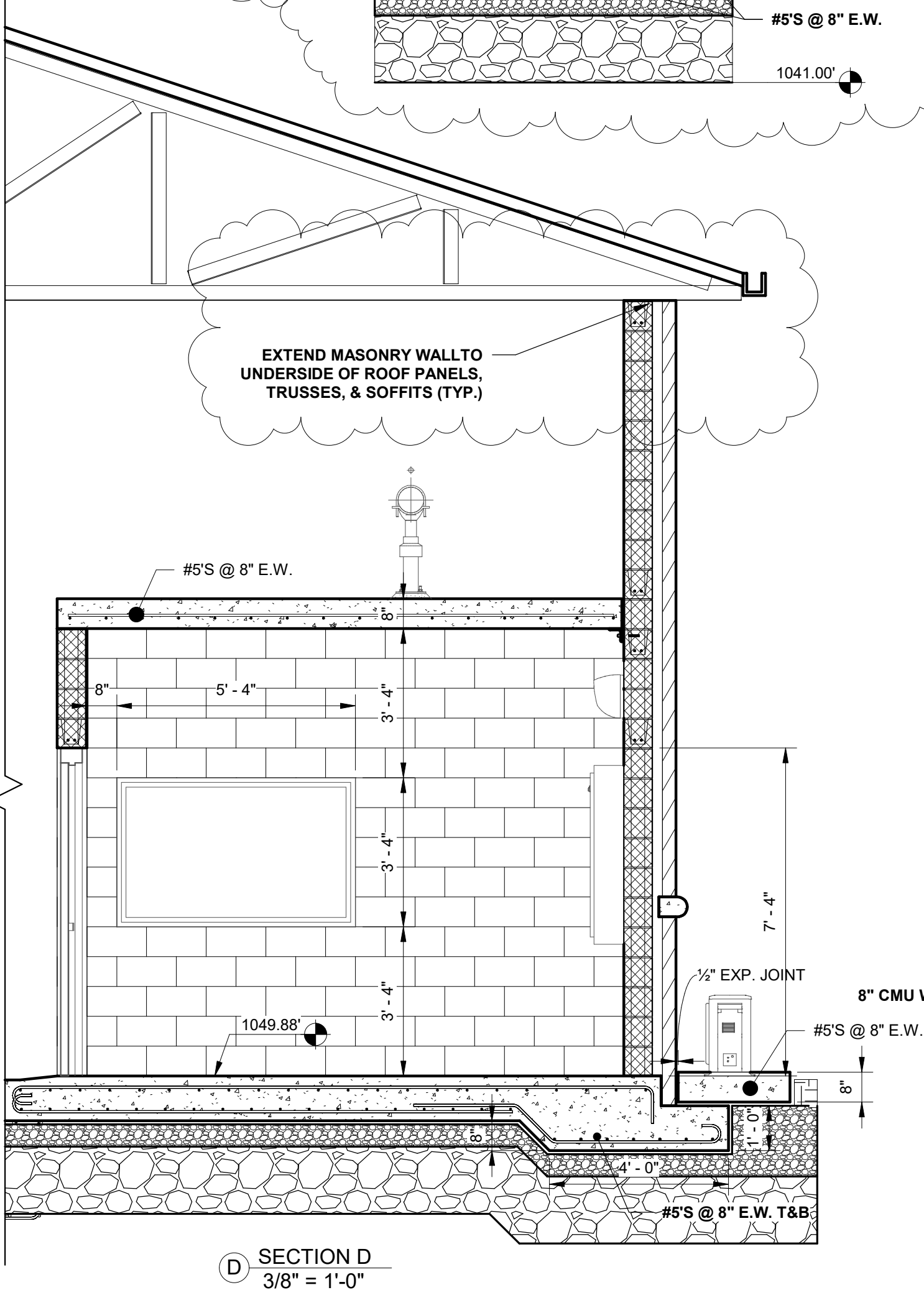


OWNER
Etowah
 WATER & SEWER AUTHORITY
 "Excellence in every drop"

CONSULTANT INFORMATION
 PROJECT MANAGER: PJJ
 DESIGNED BY: AAA
 DRAWN BY: AAA/BB
 CHECKED BY: AAA
 FILE NAME: FILE NAME
 PROJECT NO.: 169-18-110

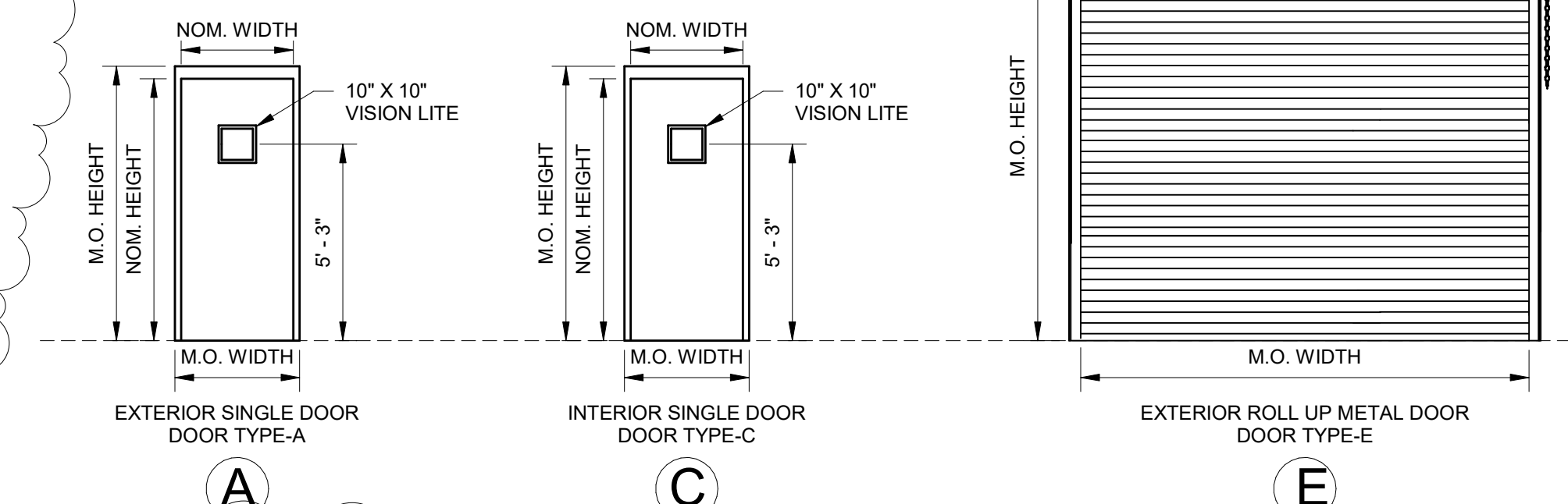


PROJECT INFORMATION
 PROJECT: ETOWAH WATER & SEWER AUTHORITY
 DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES
 DAWSON COUNTY, GEORGIA
 SHEET TITLE: SOLIDS DEWATERING BUILDING SECTIONS & DETAILS III



AREA	FLOOR		WALLS		BASE		CEILING	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
BELT PRES ROOM	CONC.	ER	CMU	PAINT	CMU	PAINT	STEEL	PAINT*
ELECT./CONTROL ROOM	CONC.	ER	CMU	PAINT	CMU	PAINT	CONC.	PAINT

ER = EPOXY RESIN (NON-SLIP TYPE)
 * THIS INCLUDES PAINTING ALL HARDWARE ATTACHING ROOF AND METAL DECKING. ALL OF CEILING SHALL BE PAINTED THE SAME COLOR



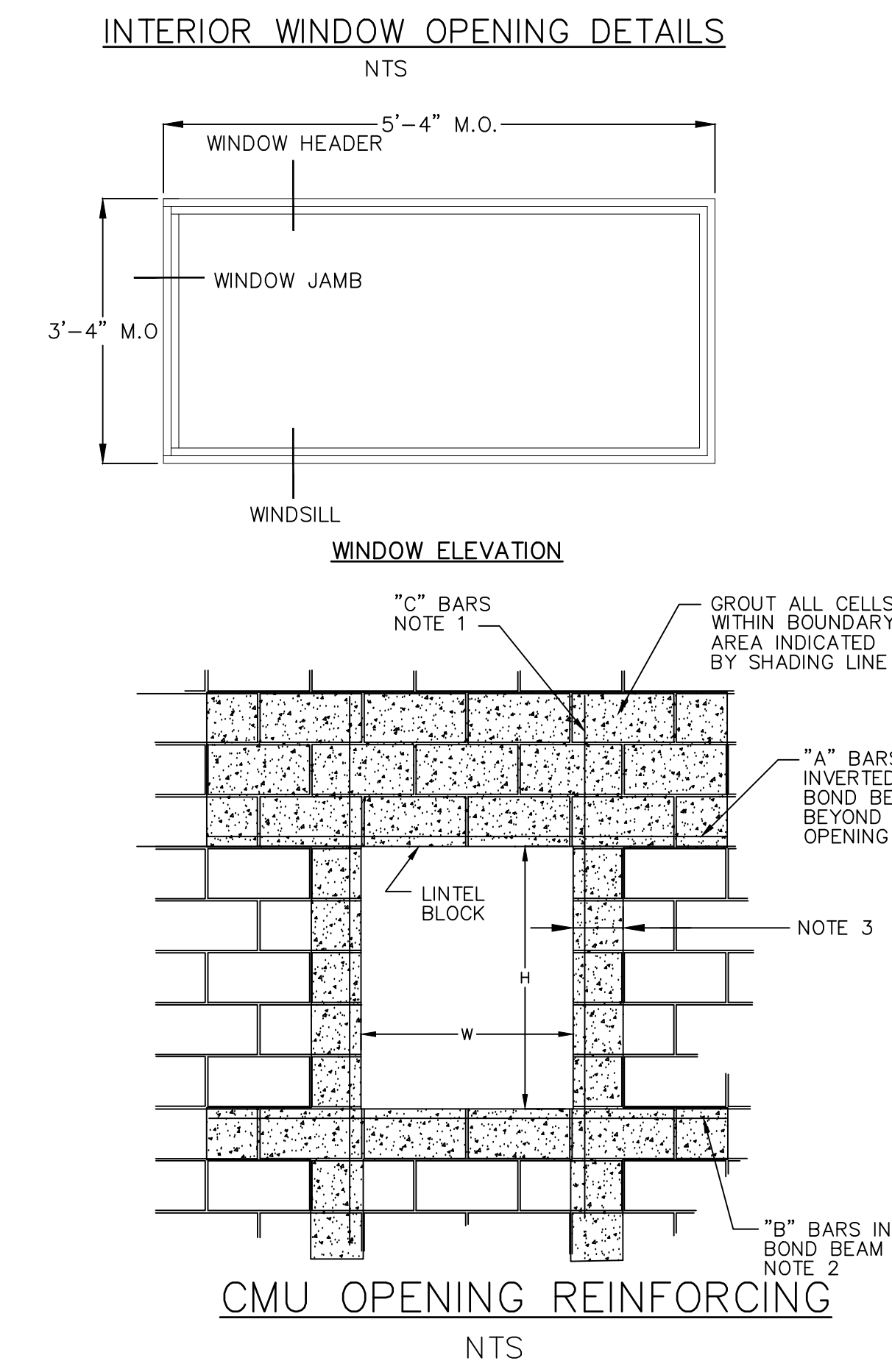
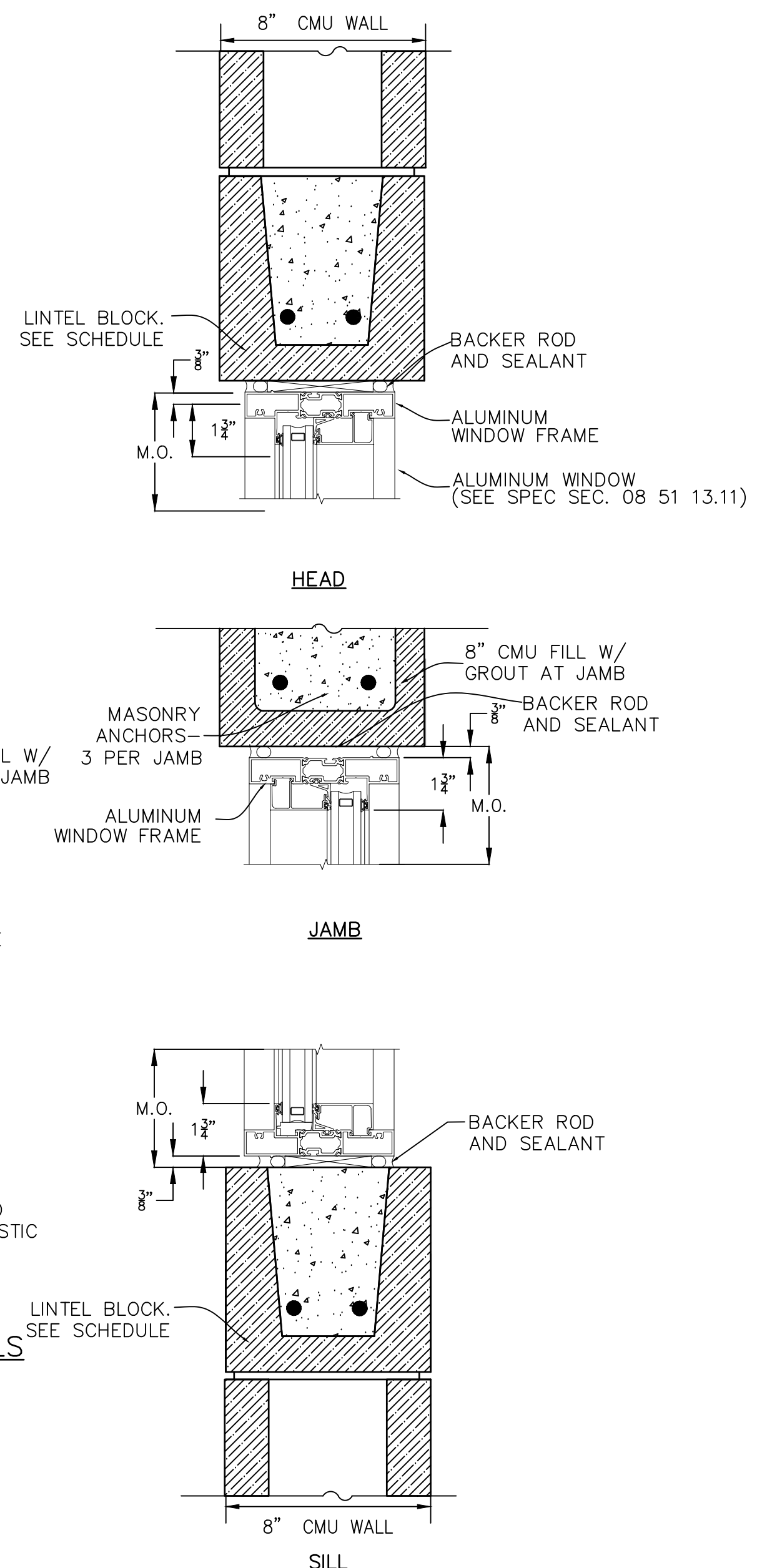
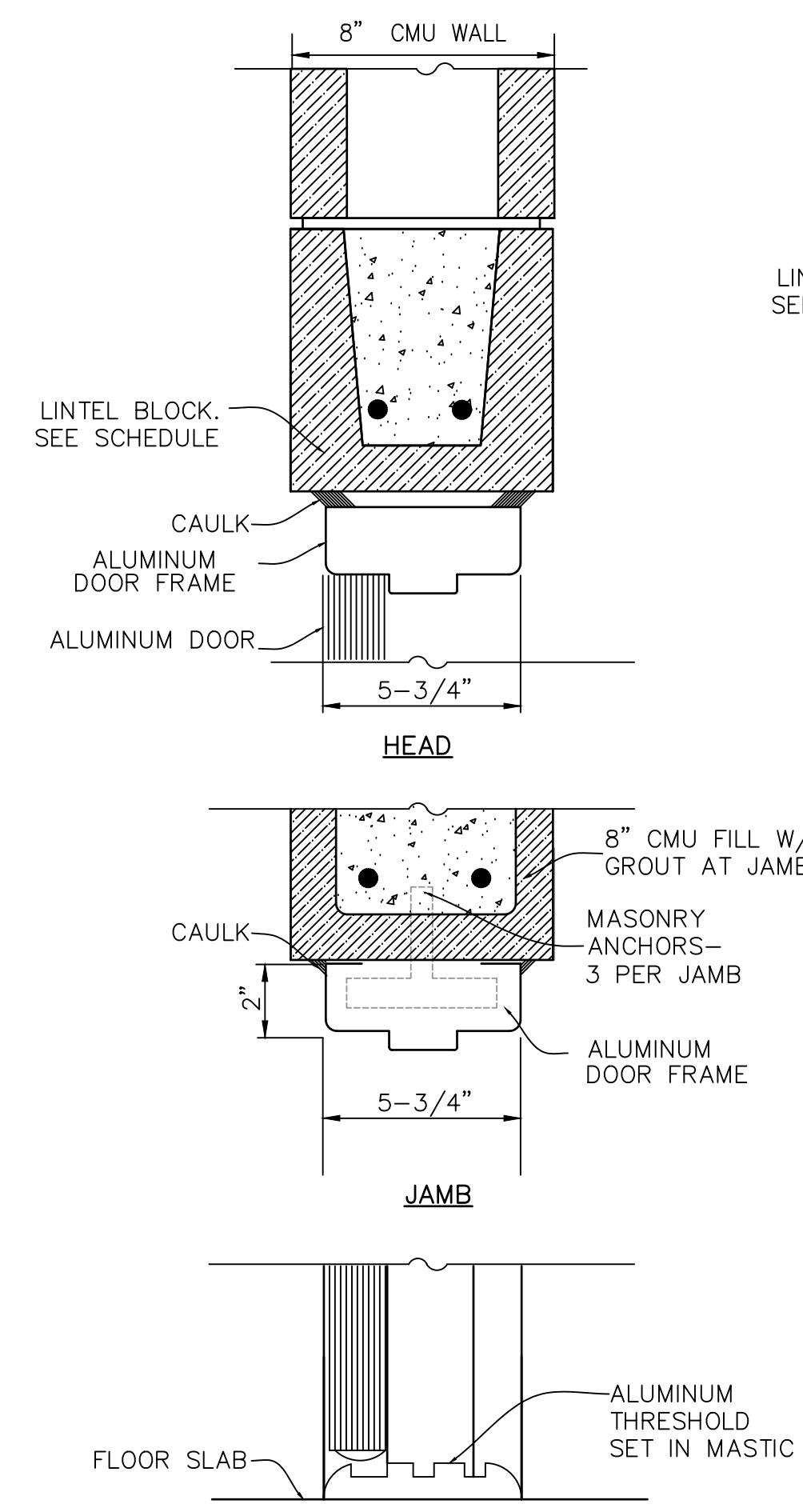
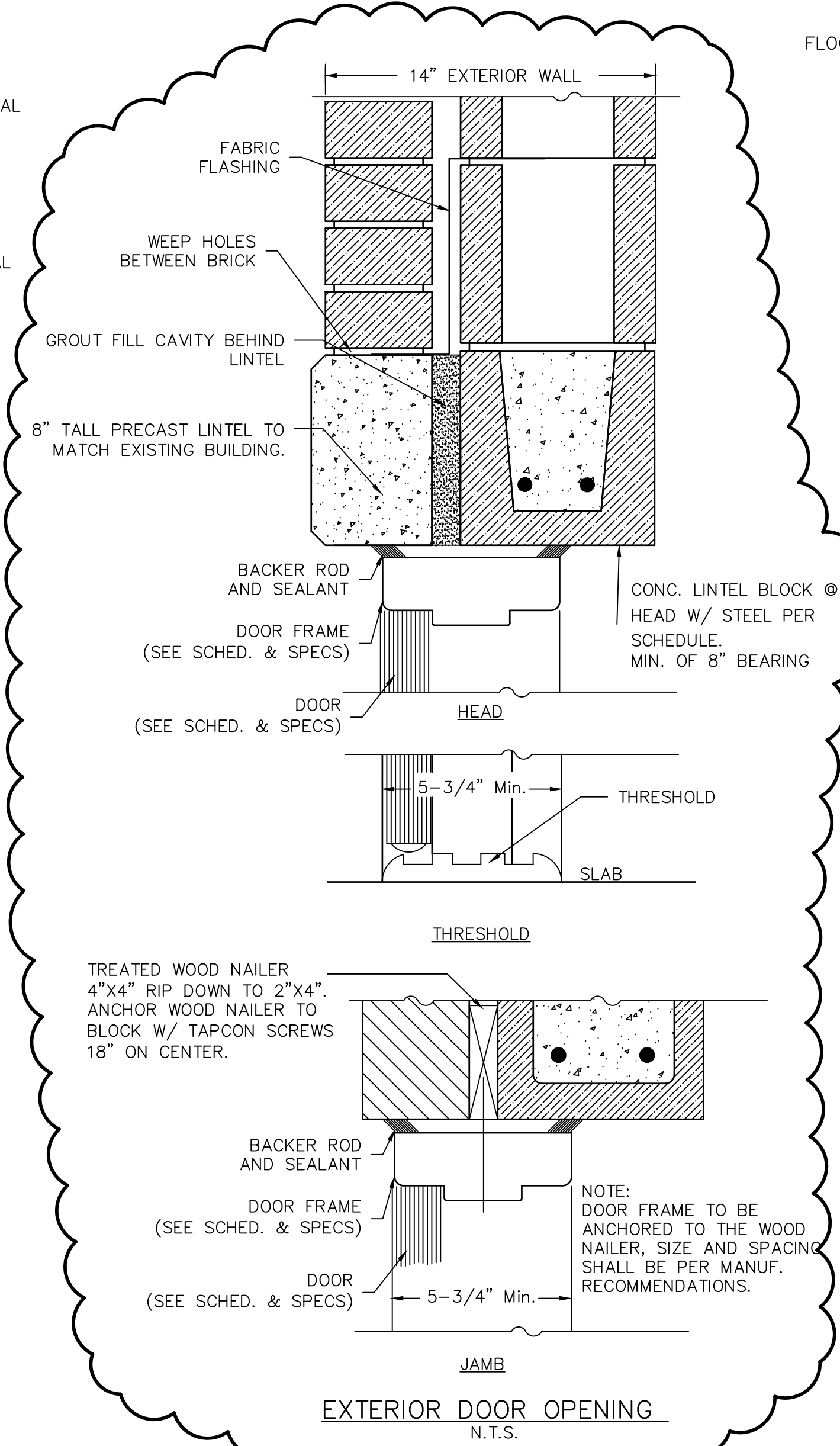
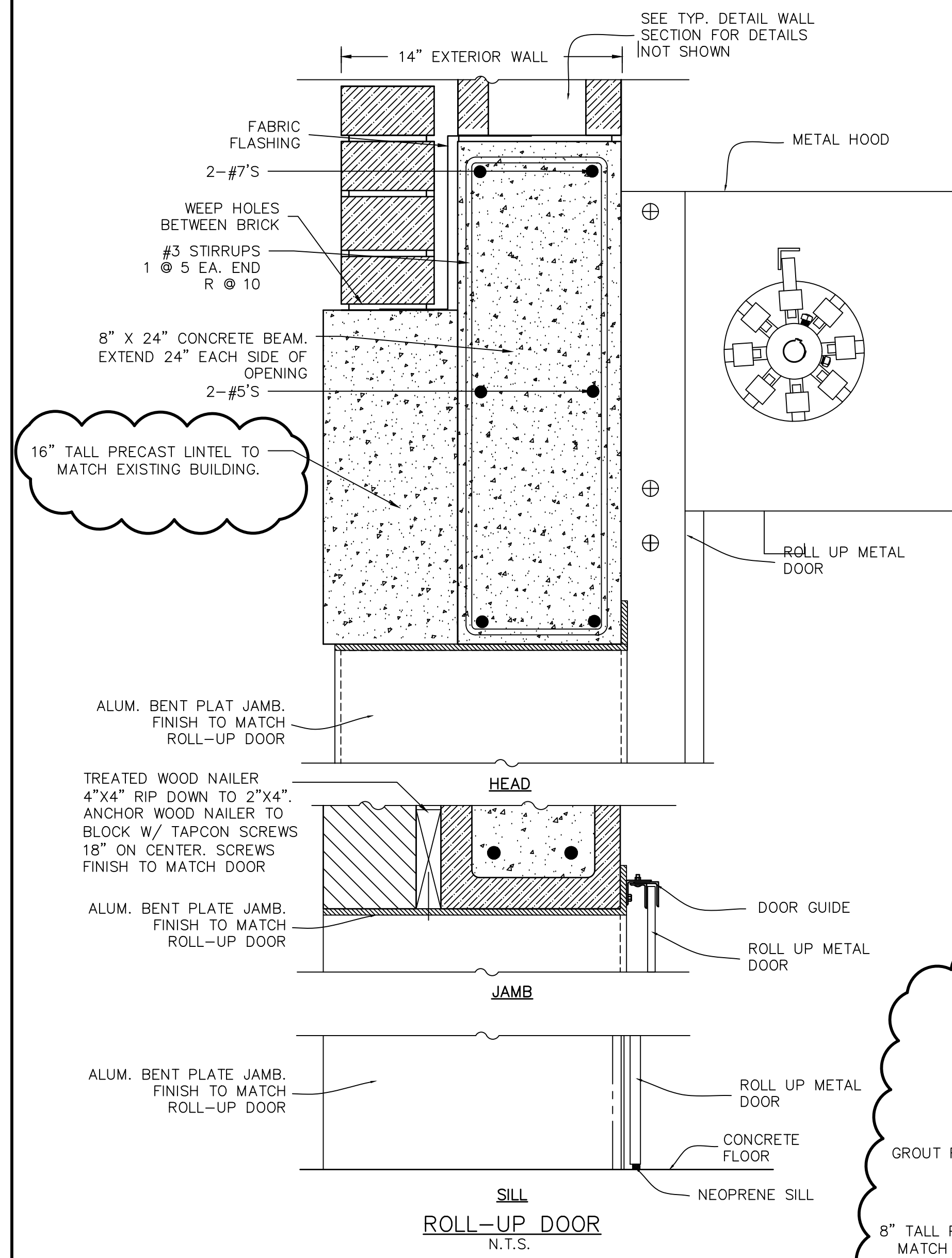
NO.	DOOR TYPE	OPENING TYPE	DOOR NOMINAL DIMENSIONS			MASONRY OPENING		HDW. SET	FRAME & DOOR MATERIAL	REMARKS
			WIDTH	HEIGHT	THICK.	WIDTH	HEIGHT			
D.1	A	2	3'-0"	7'-0"	1-3/4"	3'-4"	7'-4"	2	ALUMINUM	
D.2	A	2	3'-0"	7'-0"	1-3/4"	3'-4"	7'-4"	2	ALUMINUM	
D.3	C	3	3'-0"	7'-0"	1-3/4"	3'-4"	7'-4"	7	ALUMINUM	
D.4	E	1	12'-0"	12'-0"	-	12'-0"	12'-0"	-	ALUMINUM	
D.5	E	1	12'-0"	12'-0"	-	12'-0"	12'-0"	-	ALUMINUM	

- NOTES:
- THE COLOR, FINISH, AND HARDWARE FOR ALL DOORS SHALL MATCH THE EXISTING OPERATIONS BUILDING DOORS.
 - THE INTENT OF THE DOOR SCHEDULE IS TO PROVIDE SUPPLEMENTARY INFORMATION TO THE DOOR SPECIFICATIONS.
 - ALL EXTERIOR CONDITIONS SHALL BE WEATHERPROOFED WITH SEALANT ON BOTH INTERIOR AND EXTERIOR SIDES AT ALL HEAD AND JAMB CONDITIONS UNLESS OTHERWISE NOTED.
 - SET SILLS IN FULL BED OF SEALANT.
 - ALL INTERIOR FRAMES SHALL BE CAULKED ON BOTH SIDES AT HEAD AND JAMB CONDITIONS UNLESS OTHERWISE NOTED.
 - THE OWNER SHALL SELECT COLOR, FINISH, AND TEXTURE FOR ALL DOORS.
 - ALL DOORS PROVIDED WITH CYLINDER LOCKS SHALL BE KEYED TO MATCH OWNER'S EXISTING KEYING SYSTEM. SEE SPECIFICATIONS.
 - TYPE E ROLL-UP DOORS SHALL BE MOTORIZED WITH ADDITIONAL HARDWARE AND APPURTENANCES NOT SHOWN ON THIS SCHEDULE. SEE ROLL UP DOOR SPECIFICATIONS.

HARDWARE SET	DESCRIPTION/LOCATION/TYP/USE	REMARKS
2 X	BALL BEARING HINGES	EXTERIOR / SINGLE
7 X	CONTINUOUS GEAR HINGES	EXTERIOR / SINGLE
13 X	OUTSIDE TRIM NIGHT LATCH W/ PULL	EXTERIOR / SINGLE
	OUTSIDE TRIM W/ STD. LEVER	EXTERIOR / SINGLE
	BATHBEDROOM PRIVACY LOCK/LEVER	EXTERIOR / SINGLE
	STORE ROOM LOCK	EXTERIOR / SINGLE
	ELECTRIC LOCK	EXTERIOR / SINGLE
	OFFSET DOOR PULL	EXTERIOR / SINGLE
	DOOR PULL	EXTERIOR / SINGLE
	PANIC BAR EXIT DEVICE W/ LATCH	EXTERIOR / SINGLE
	PANIC BAR EXIT DEVICE, CONCEALED ROD	EXTERIOR / SINGLE
	PANIC BAR EXIT DEVICE, FIRE RATED	EXTERIOR / SINGLE
	LATCH SET	EXTERIOR / SINGLE
	LOCK CYLINDER	EXTERIOR / SINGLE
	STRIKE PLATE	EXTERIOR / SINGLE
	DEAD BOLT	EXTERIOR / SINGLE
	DEAD LATCH	EXTERIOR / SINGLE
	KICK PLATES	EXTERIOR / SINGLE
	HOLDERS	EXTERIOR / SINGLE
	THRESHOLD	EXTERIOR / SINGLE
	T ASTRAGEL	EXTERIOR / SINGLE
	CLOSER W/ HOLD OPEN	EXTERIOR / SINGLE
	CLOSER	EXTERIOR / SINGLE
	WEATHERSTRIPPING	EXTERIOR / SINGLE
	ADJ. ASTRAGEL WEATHERSTRIPPING	EXTERIOR / SINGLE
	DOOR BOTTOM SEAL	EXTERIOR / SINGLE
	CONCEALED ADJ. BOTTOM BRUSH	EXTERIOR / SINGLE
	WALL BUMPER	EXTERIOR / SINGLE
	FLOOR STOP	EXTERIOR / SINGLE
	WALL STOP	EXTERIOR / SINGLE
	FOOT BOLTS	EXTERIOR / SINGLE
	HEAD BOLTS	EXTERIOR / SINGLE

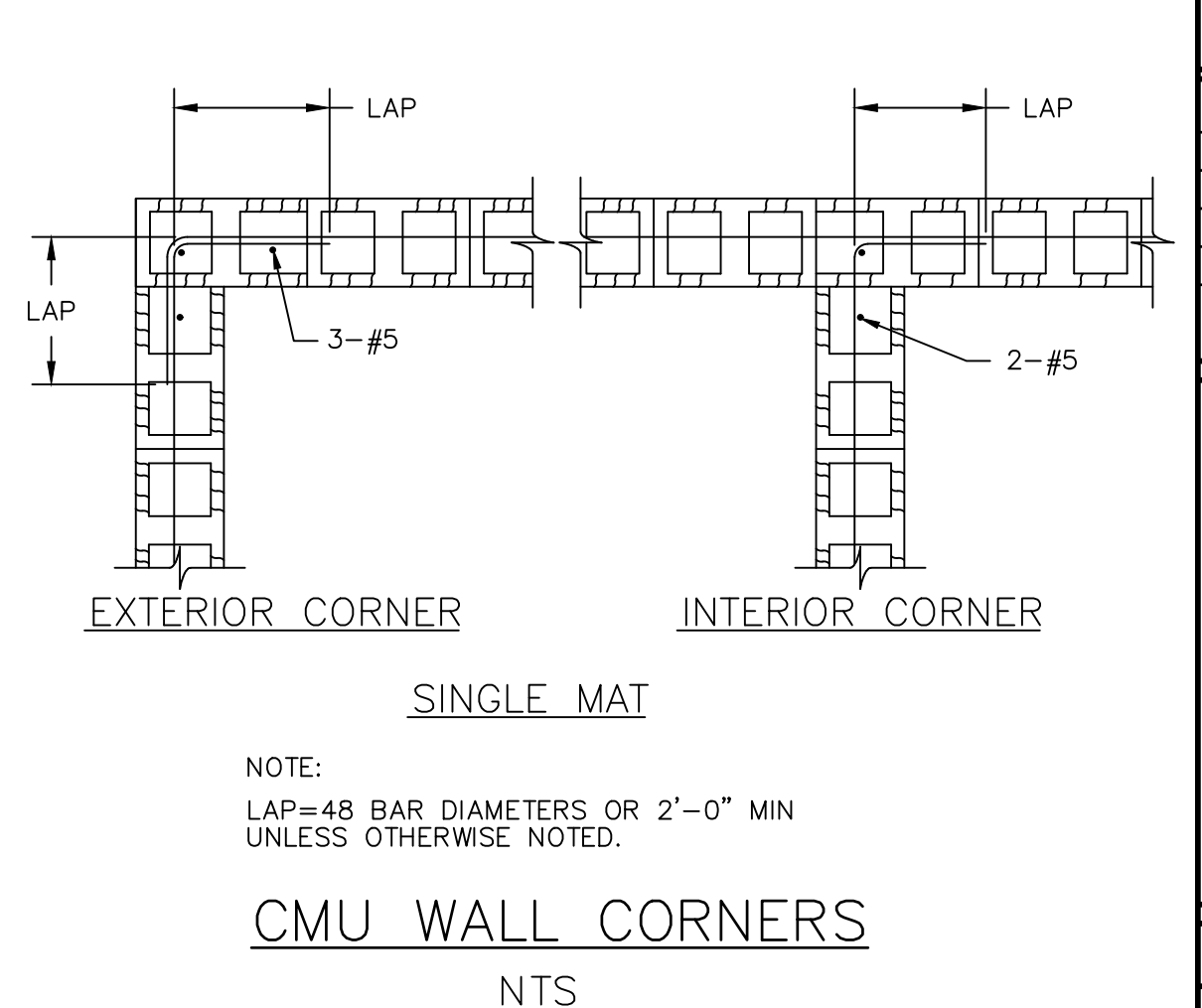
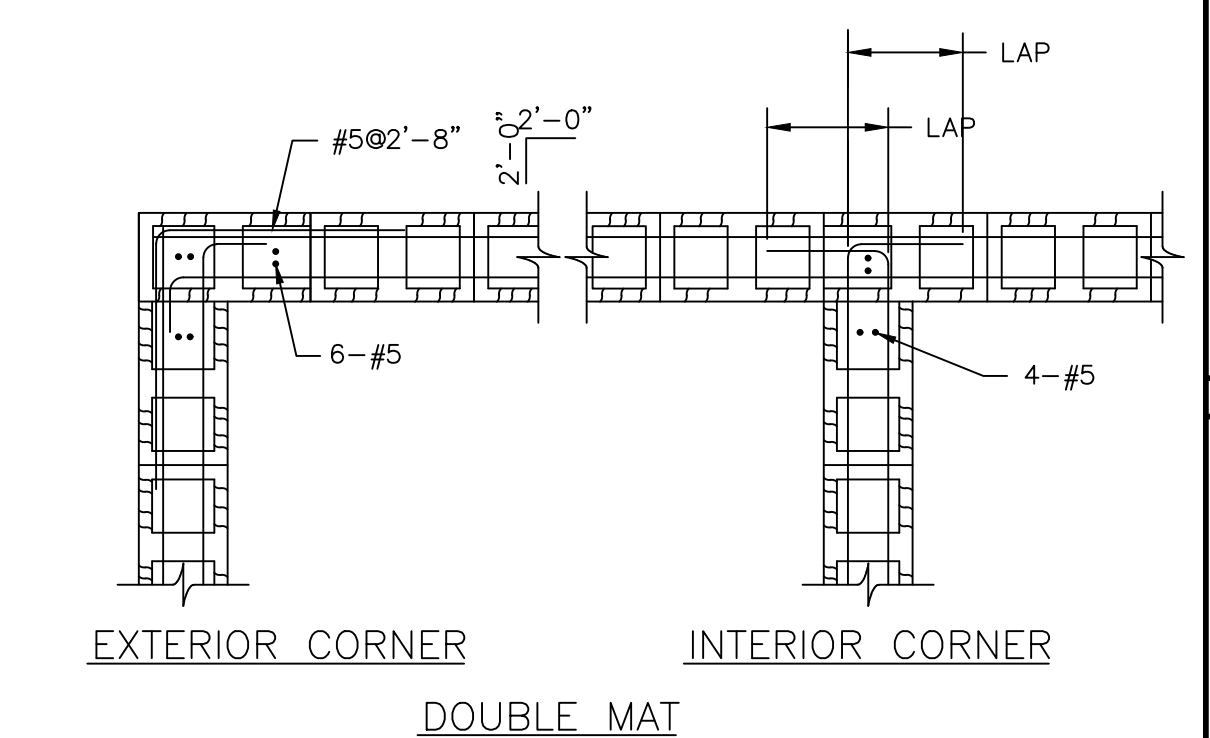
SCALE: As indicated
 NOTE: DRAWING SCALE IS BASED ON 24X36 SHEETS.
 DATE: 2/26/2020
 DRAWING: S.09
 SHEET: 29 OF 44

Drawing File: S.14 MISCELLANEOUS STRUCTURAL DETAILS.dwg Apr 01, 2020 - 2:05pm



CMU OPENING REINF SCHEDULE								
W	"A" BARS		"B" BARS		"C" BARS		# CELLS TO GROUT NOTE 3	
	8" CMU	12" CMU	8" CMU	12" CMU	8" CMU	12" CMU	8" CMU	12" CMU
≤2'-0"	1-#5	2-#5	1-#5	2-#5	1-#5	2-#5	ONE	ONE
>2'-0" ≤6'-0"	2-#5	2-#5	1-#5	2-#5	1-#5	2-#5	ONE	ONE
>6'-0" ≤8'-0"	2-#6	2-#6	2-#5	2-#6	2-#5	2-#5	TWO	TWO
>8'-0" ≤10'-0"	2-#7	2-#8	2-#6	2-#6	2-#5	2-#6	THREE	THREE
>10'-0" ≤12'-0"	SEE DWGS.	SEE DWGS.	SEE DWGS.	SEE DWGS.	SEE DWGS.	4-#7	THREE	THREE

- NOTES:
- EXTEND "C" BARS 2'-0" MINIMUM BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 2'-0", "C" BARS SHALL EXTEND FULL HEIGHT.
 - "A" AND "B" BARS SHALL EXTEND 2'-0" EACH SIDE OF THE OPENING.
 - GROUT TO END OF BARS SEE SCHEDULE FOR NUMBER OF CELLS TO GROUT ON EACH SIDE OF THE OPENING.
 - GROUT ALL CELLS OVER OPENING TO W/2 OR 2'-0" WHICH EVER IS GREATER UNLESS TO OF WALL IS REACHED FIRST.



LINTEL SCHEDULE

FOR EACH 4" OF WALL THICKNESS, THE FOLLOWING ITEMS SHALL BE USED.

STEEL:(FOR BRICK WORK)

SPANS UP TO 2'-0"	1 FLAT PLATE-3 1/2" X 3/8"
2'-0" - 5'-0"	1 ANGLE- 3 1/2 X 3 1/2 X 5/16" S.L.O.
5'-0" - 6'-0"	1 ANGLE- 4 X 3 1/2" X 5/16" S.L.O.
6'-0" - 7'-0"	1 ANGLE- 5 X 3 1/2" X 3/8" S.L.O.
7'-0" - 8'-0"	1 ANGLE- 6 X 3 1/2" X 3/8" S.L.O.
8'-0" - 9'-0"	1 ANGLE- 6 X 3 1/2" X 3/8" S.L.O.

CONCRETE:(PRE-CAST)

SPANS UNDER 4'-0"	8" DEEP 2 #4 BOTTOM
4'-0" - 5'-6"	8" DEEP 2 #4 BOTTOM
5'-6" - 7'-0"	8" DEEP 2 #4 BOTTOM
7'-0" - 8'-6"	8" DEEP 2 #6 BOTTOM
8'-0" - 11'-0"	16" DEEP 2 #6 BOTTOM

BLOCK:(CONCRETE FILLED LINTEL BLOCK)

SPANS UNDER 3'-6"

3'-6" - 5'-0"	8" DEEP 2 #4 BOTTOM
5'-0" - 6'-0"	8" DEEP 2 #4 BOTTOM
6'-0" - 8'-0"	16" DEEP 2 #6 BOTTOM

NOTE: BEAR ALL LINTELS A MIN. OF 8" EACH END.

LINTEL SCHEDULE N.T.S.

INDICATES AREAS OF ADDENDUM NO. 1 (TYPICAL)

BY	DATE	DESCRIPTION
PJJ	11/22/2019	60% REVIEW SET
PJJ	1/6/2020	90% REVIEW SET
PJJ	1/24/2020	REGULATORY REVIEW SET
PJJ	2/26/2020	BID READY SET
PJJ	4/2/2020	ADDENDUM NO. 1

SEAL

02/26/2020

OWNER

Etowah
WATER & SEWER AUTHORITY
"Excellence in every drop"

CONSULTANT INFORMATION

PROJECT MANAGER: PJJ
DESIGNED BY: PJJ
DRAWN BY: SKR/SPM
CHECKED BY: A.A.
FILENAME: DETAILS.dwg
PROJECT NO.: 273-18-210

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Civil and Environmental Engineers
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PROJECT INFORMATION

PROJECT: ETOWAH WATER & SEWER AUTHORITY
DAWSON FOREST WRF SLUDGE
DAWSON COUNTY, GEORGIA

SHEET TITLE: MISCELLANEOUS STRUCTURAL DETAILS

SCALE: AS SHOWN

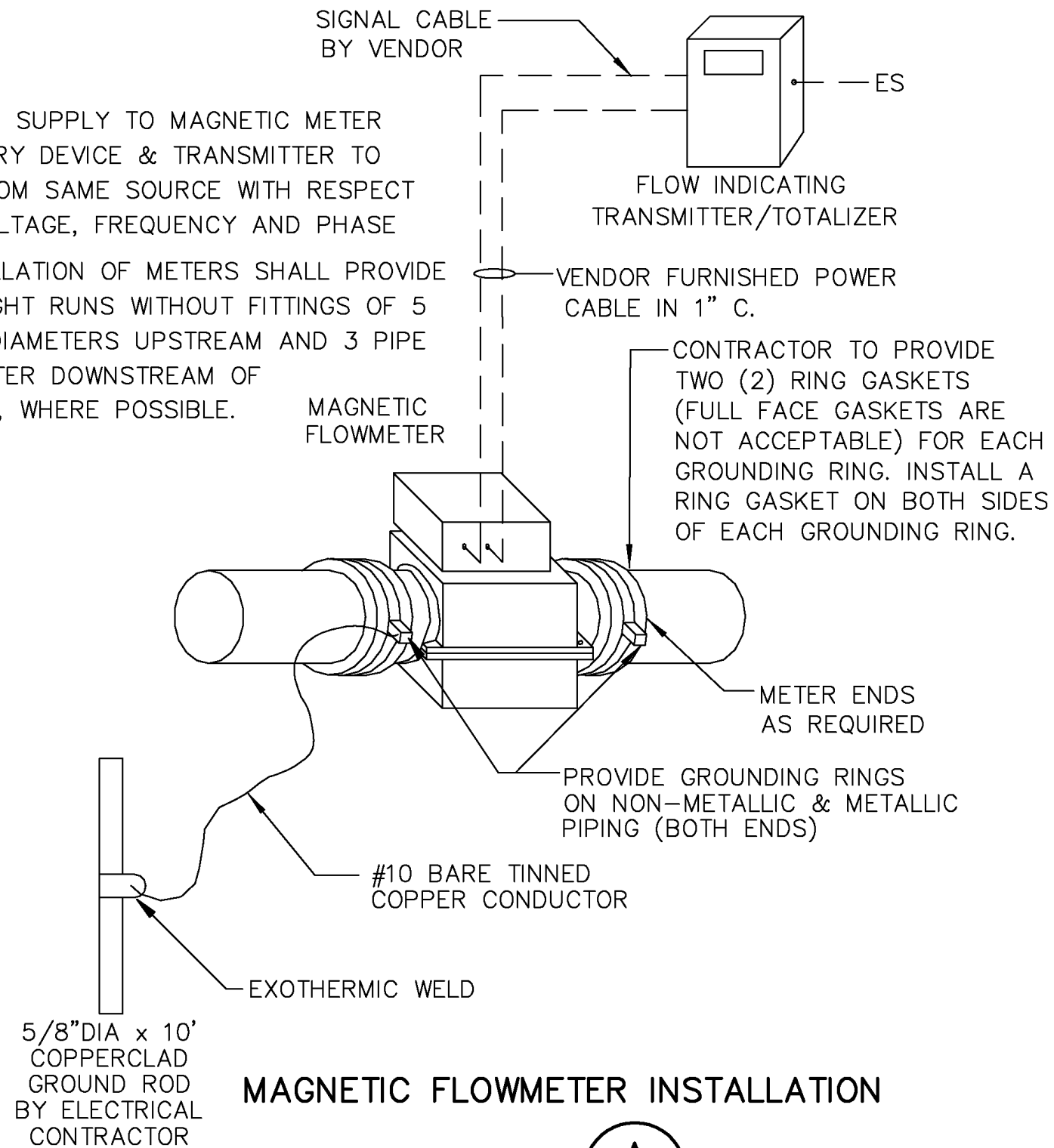
NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.

DRAWING: S.14

SHEET: 34 OF 44

NOTES:

1. POWER SUPPLY TO MAGNETIC METER PRIMARY DEVICE & TRANSMITTER TO BE FROM SAME SOURCE WITH RESPECT TO VOLTAGE, FREQUENCY AND PHASE
2. INSTALLATION OF METERS SHALL PROVIDE STRAIGHT RUNS WITHOUT FITTINGS OF 5 PIPE DIAMETERS UPSTREAM AND 3 PIPE DIAMETER DOWNSTREAM OF METER, WHERE POSSIBLE.



MAGNETIC FLOWMETER INSTALLATION

DETAIL A
E.03

SCALE: NONE

INDICATES AREAS OF
ADDENDUM NO. 1 (TYP.)

REV.	DATE	DESCRIPTION	BY
5	4/2/2020	ADDENDUM NO. 1	PJJ

OWNER



CONSULTANT



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PROJECT:
**ETOWAH WATER & SEWER AUTHORITY
DAWSON FOREST WRF
SLUDE DEWATERING UPGRADES
DAWSON COUNTY, GEORGIA**

SHEET TITLE:
**SOLIDS DEWATERING BUILDING
ELECTRICAL PLAN - POWER**

SCALE:



SHEET

E.03-1