ETOWAH WATER & SEWER AUTHORITY

DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES

DAWSON COUNTY GEORGIA



BOARD OF DIRECTORS

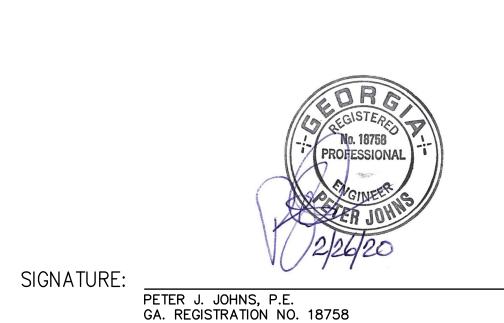
JIM KING, CHAIRMAN LINDA TOWNLEY, VICE CHAIR DOUG SCHUSTER, SECRETARY TONY KELLAR DEBORAH STOWERS

BROOKE ANDERSON, P.E., GENERAL MANAGER TIM COLLINS, ASSISTANT GENERAL MANAGER



3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GEORGIA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

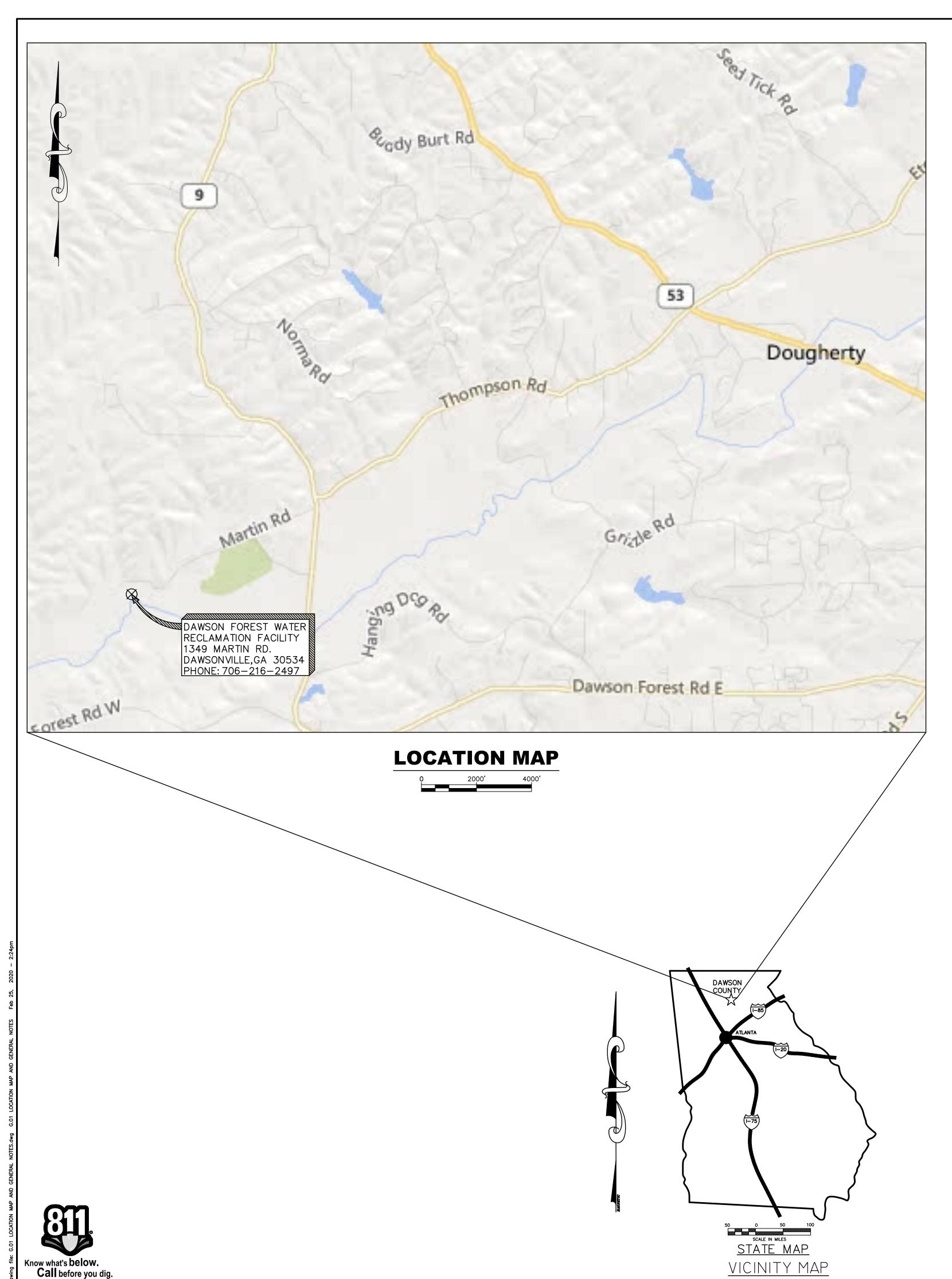
BID READY SET 2/26/2020



DATE: <u>2/26/2020</u>

		SHEET INDEX	
DWG NO. LEGEND	<u>:</u>	<u>DISCIPLINES:</u>	
<u>DISCIPLINE</u>	SHEET NO.	G — GENERAL M — MECHANICAL	
С.	01	C — CIVIL S — STRUCTURAL ESC — EROSION & SEDIMENTATION CONTROL E — ELECTRICAL D — DEMOLITION H — HVAC	
SHEET NO	DRAWING NO	1	
SHEET NO.	DIAWING NO		
	Γ	<u>GENERAL</u>	
1	G.00	COVER SHEET AND SHEET INDEX	
2	G.01	LOCATION MAP AND GENERAL NOTES	
		<u>CIVIL</u>	
3	C.01	EXISTING SITE SURVEY AND DEMOLITION PLAN	
4	C.02	CIVIL SITE PLAN	
5	C.03	SLUDGE LINE PROFILES	
6	C.04	MISCELLANEOUS CIVIL DETAILS	
	Г	<u>N & SEDIMENTATION CONTROL</u>	
7	ESC.01	INITIAL CLEARING PHASE EROSION CONTROL PLAN	
8	ESC.02	INTERMEDIATE PHASE EROSION CONTROL PLAN	
9	ESC.03	FINAL PHASE EROSION CONTROL PLAN	
10	ESC.04	EROSION CONTROL NOTES & DETAILS I	
11	ESC.05	EROSION CONTROL NOTES & DETAILS II	
1.1			
	T	<u>DEMOLITION</u>	
12	D.01	DEMOLITION PLAN AND SECTIONS	
		MECHANICAL	
13	M.01	3D VIEWS	
14	M.02	SUB-FLOOR PLAN	
15	M.03	OPERATING FLOOR PLAN	
16	M.04	SECTIONS AND DETAILS I	
17	M.05	SECTIONS AND DETAILS II	
18	M.06	SECTIONS AND DETAILS III	
19	M.07	SECTIONS AND DETAIL IV	
20	M.08	MISCELLANEOUS MECHANICAL DETAILS	
		<u>STRUCTURAL</u>	
21	S.01	STRUCTURAL NOTES I	
22	S.02	STRUCTURAL NOTES II	
23	S.03	STATEMENT OF SPECIAL INSPECTIONS	
24	S.04	FOUNDATION PLAN	
25	S.05	FLOOR PLAN	
26	S.06	ROOF PLAN	
27	S.07	SECTIONS & DETAILS I	
28	S.08	SECTIONS & DETAILS II	
29	S.09	SECTIONS & DETAILS III	
30	S.10	WALL SECTIONS & DETAILS	
31	S.10	FRAMING PLANS, ELEVATIONS, AND DETAILS	
32	S.12	FRAMING ELEVATIONS AND DETAILS	
33	S.13	STANDARD CONCRETE DETAILS	
34	S.14	MISCELLANEOUS STRUCTURAL DETAILS	
35	S.15	TYPICAL GRATING DETAILS	
		<u>ELECTRICAL</u>	
36	E.01	ELECTRICAL ONE LINE, NOTES, AND SCHEDULES	
37	E.02	ELECTRICAL SITE PLAN	
	E.03	ELECTRICAL PLAN — POWER	
39	E.04	ELECTRICAL PLAN — LIGHTING AND GROUNDING	
40	E.05	SCHEMATIC DIAGRAMS 1	
41	E.06	SCHEMATIC DIAGRAMS 2	
42	E.07	P&ID	
		<u>HVAC</u>	
43	H.01	HVAC SCHEDULES AND NOTES	
	H.02	HVAC PLAN AND SECTIONS	





GENERAL PROJECT NOTES:

- UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATELY LOCATED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE HORIZONTAL OR VERTICAL ACCURACY OF SAID UTILITIES, OR THE POSSIBILITY THAT UNDERGROUND UTILITIES OTHER THAN THE ONES SHOWN MAY EXIST. THE CONTRACTOR SHALL CALL THE UTILITIES PROTECTION INC., "CALL BEFORE YOU DIG" (1-800-282-7411) PRIOR TO CONSTRUCTION AND BE RESPONSIBLE FOR LOCATING ALL UTILITIES. SEE SPECIFICATIONS FOR ADDITIONAL
- PROVIDE ENGINEER WITH 24 HOURS (MIN.) NOTICE PRIOR TO THE PLACING OF ANY CONCRETE.
- CONTRACTOR SHALL NOT OPERATE ANY EXISTING EQUIPMENT, VALVES, ETC. WITHOUT AUTHORIZATION FROM OWNER, UNLESS AN EMERGENCY SITUATION EXISTS. IN GENERAL, THE OPERATING STAFF OF THE OWNER WILL OPERATE ANY EXISTING EQUIPMENT, VALVES, ETC. WHICH THE CONTRACTOR MAY
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STAKEOUT AND SURVEYING WORK REQUIRED ON THE PROJECT. CONTRACTOR SHALL CONTACT ENGINEER AND/OR OWNER TO VERIFY LOCATION OF ALL PROPOSED STRUCTURES PRIOR TO PLACEMENT OF ANY CONCRETE.
- THE ENGINEER WILL PROVIDE SURVEY COORDINATES IN GA STATE PLANE COORDINATE SYSTEM (WEST ZONE) FOR LAYOUT PURPOSES TO THE CONTRACTOR. SITE SURVEY COMPLETED BY ROBBIE HENDERSON SURVEYING & PLANNING.
- UNLESS SPECIFICALLY DETAILED OTHERWISE, CONNECTIONS TO EXISTING MANHOLES AND STRUCTURES SHALL BE CORED AND LINK SEALED. CONTRACTORS SHALL USE LINK SEALS THAT HAVE ALL STAINLESS STEEL HARDWARE.
- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO LAND DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF THE DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES (BMP's) SHALL BE INSTALLED BY CONTRACTOR IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE LOCAL ISSUING AUTHORITY AND/OR THE OWNER.
- ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED DAILY. NO PERMANENT CUT OR FILL SLOPES STEEPER THAN 3:1 ARE ALLOWED UNLESS SPECIFICALLY DETAILED OTHERWISE.
- 10. THE EXISTING DAWSON FOREST WRF SITE IS A SECURED SITE WITH CONTROLLED ACCESS TO VISITORS. DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY FENCING, GATES, BARRICADES, ETC. AS REQUIRED TO LIMIT PUBLIC ACCESS TO THE SITE.
- THE CONTRACTOR SHALL SEQUENCE AND SCHEDULE CONSTRUCTION OF THE WORK TO ALLOW FOR CONTINUOUS OPERATION OF THE DAWSON FOREST WRF THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY SHUTDOWNS AND TIE-INS SHALL BE SCHEDULED WITH THE OWNER'S OPERATING STAFF AND WHEN APPROVED SHALL BE LIMITED TO NO MORE THAN TWO (2) HOURS AT ANY ONE TIME. TEMPORARY SHUTDOWNS AND TIE-INS SHALL BE MINIMIZED. ALL OTHER WORK SHALL BE SCHEDULED IN A LOGICAL MANNER TO ALLOW FOR CONTINUOUS OPERATION OF THE DAWSON FOREST WRF DURING THE CONSTRUCTION PERIOD AND TO HELP MINIMIZE OR PREVENT TEMPORARY SHUTDOWNS. SEE SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION SEQUENCING REQUIREMENTS. THE CONTRACTOR'S WORK HOURS DURING THE CONSTRUCTION OF THIS PROJECT ARE LIMITED. THE CONTRACTOR MAY WORK BETWEEN THE HOURS OF 7AM TO 7PM, MONDAY THROUGH SATURDAY.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY PLUGS AND BULKHEADS, TEMPORARY PIPING, TEMPORARY BYPASS PUMPING, ETC. REQUIRED FOR CONTINUOUS OPERATION OF THE DAWSON FOREST WRF.

GENERAL PIPING NOTES:

- 1. ALL LINK SEALS SHALL HAVE S.S. HARDWARE.
- 2. ALL WALL PIPES CAST FLUSH WITH WALLS OR SLABS SHALL BE TAPPED FOR STUDS.
- 3. ALL WALL PIPES SHALL HAVE WALL COLLARS. WALL COLLARS SHALL HAVE A MIN. CONCRETE COVER
- PROVIDE PIPE SUPPORTS AT ALL LOCATIONS SHOWN ON DRAWINGS AND AS REQUIRED BY THE SPECIFICATIONS. FOR CLARITY, NOT ALL REQUIRED PIPE SUPPORTS ARE DETAILED ON THESE
- 5. ALL FORCE MAINS SHALL BE DUCTILE IRON PIPE WITH CEMENT LINING. OTHER PIPELINES SHALL BE CONSTRUCTED WITH PIPE MATERIALS SPECIFIED AND AS SHOWN ON THE DRAWINGS.
- 6. WATER LINES AND FORCE MAINS (I.E., NON-GRAVITY FLOW) SHALL HAVE CONCRETE THRUST BLOCKING INSTALLED AT ALL UNDERGROUND FITTINGS UNLESS OTHER JOINT RESTRAINTS (E.G., MECHANICALLY RESTRAINED JOINTS) ARE SPECIFICALLY DETAILED. INSTALL MECHANICALLY RESTRAINED JOINTS WHERE
- . IF NOT DETAILED, WATER VALVES SHALL BE GATE VALVES, AND WASTEWATER VALVES SHALL BE PLUG
- 8. INSTALL LOCATOR WIRE (NUMBER 12 AWG SOLID PLASTIC COATED COPPER WIRE) ABOVE ALL PVC WATER MAINS.
- 9. JOINT DEFLECTION OF FORCE MAINS AND WATER SERVICE LINES SHALL NOT EXCEED 50% OF THE MANUFACTURER'S PRINTED RECOMMENDATIONS.
- 10. DUCTILE IRON PIPE (DIP) WITH GROOVE JOINTS SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH ANSI/AWWA C606, INCLUDING MINIMUM SPECIAL THICKNESS CLASSES REFERENCED. ALL GROOVE JOINTS SHALL BE MADE IN THE FACTORY.
- 11. INTERIOR WATER LINES (LESS THAN 4 INCHES) SHALL BE COPPER AS DETAILED ON THESE DRAWINGS. LARGER BURIED WATER LINES SHALL BE D.I.P. (MIN. CLASS 350).
- 12. ALL POLYMER FEED LINES SHALL BE SCHEDULE 80 PVC PIPING; VALVES SHALL BE TRU-UNION TYPE PVC BALL VALVES.
- 13. PROVIDE MINIMUM 4'-0" COVER ON ALL WATER SERVICE LINES.
- 14. PROVIDE MASONRY OR CONCRETE PIPE PLUGS AS REQUIRED WHEN ABANDONING AND REMOVING EXISTING PIPE SEGMENTS DETAILED. INSTALL CONCRETE BLOCKING AT ALL PLUGS UNDER PRESSURE.
- 15. ALL BURIED VALVES SMALLER THAN 4" SHALL BE INSTALLED IN A CAST IRON METER BOX. SEE MISCELLANEOUS DETAILS.
- 16. ALL EXPOSED PIPING 12" AND SMALLER THAT REMAINS FULL OF LIQUID AT ALL TIMES SHALL BE INSULATED, HEAT TRACED, AND PROTECTED WITH ALUMINUM COVER. SEE SPECIFICATIONS FOR DETAILS. POWER HEAT TRACING FROM NEAREST 120 VOLT SOURCE.

ABBREVIATIONS

FF	ABOVE FINISHED FLOOR	
LUM	ALUMINUM	
	ВОТТОМ	
.F.	BLIND FLANGE	
FPV	BACK FLOW PREVENTER	
V	BALL VALVE (< 4") BUTTERFLY VALVE (> 4")	
B	CATCH BASIN	
	CAST IRON PIPE	
IP '	CAST-IN-PLACE	
J	CONSTRUCTION JOINT	
	CENTER LINE	
MP	CORRUGATED METAL PIPE	
MU	CONCRETE MASONARY UNIT	
.0.	CLEANOUT	
ONC	CONCRETE	
V	CHECK VALVE	
I IP	DROP INLET DUCTILE IRON PIPE	
WL(S)	DOCTILE TROIT PIPE DOWEL	
WL(3) WV	DRAIN WASTE VENT	
** *	DIAMETER	
A	EACH	
CC	ECCENTRIC	
E	EACH END	
- F	EACH FACE	
· 	ELEVATION	
S	EACH SIDE	
W	EACH WAY	
 XIST	EXISTING	
Η	FIRE HYDRANT	
V	FLAP VALVE	
М	FORCE MAIN	
	GAS LINE	
V	GATE VALVE	
В	HOSE BIB	
OR	HORIZONTAL	
W	HEADWALL	
-	INSIDE FACE	
IV	INVERT	
PF	IRON PIN FOUND	
'S	IRON PIN SET	
3	JUNCTION BOX	
SI	KIPS PER SQUARE INCH	
AX	MAXIMUM	
Н	MANHOLE	
IN	MINIMUM	
.0.	MASONRY OPENING	
ON	MONUMENT	
TS	NOT TO SCALE	
C	ON CENTER	
F HPL	OUTSIDE FACE	
HUL	OVERHEAD POWER LINE OVERHEAD UTILITY LINE	
IIOL	UNDERGROUND POWER LINE	
G	PRESSURE GAUGE	
G	PROPERTY LINE	
RV	PRESSURE REDUCING VALVE (WATER SERVICE LINES)	
SI	POUNDS PER SQUARE INCH	
V	PLUG VALVE	
VC	POLYVINYL CHLORIDE PIPE	
CP	REINFORCED CONCRETE PIPE	
/W	RIGHT OF WAY	
, D1	SILT FENCE	
.S.	SANITARY SEWER	
S	STAINLESS STEEL	
V	SOLENOID VALVE	
VC	SERVICE	
	TELEPHONE LINE	
	TOP	
&B	TOP & BOTTOM	
ВА	TO BE ABANDONED IN PLACE	
ВМ	TEMPORARY BENCH MARK	
BR	TO BE REMOVED	
FS	TAPPED FOR STUDS	
М	TELEPHONE MARKER	
МН	TELEPHONE MANHOLE	
0S	TOP OF SLAB	
YP	TYPICAL	
ERT	VERTICAL	
,	WATER LINE	
M S	WATER SERVICE	

REV.	DATE	DESCRIPTION	3
1	11/22/2019	11/22/2019 60% REVIEW SET	
2	1/6/2020	90% REVIEW SET	Ы
3	1/24/2020	1/24/2020 REGULATORY REVIEW SET	Д
4	2/26/2020	2/26/2020 BID READY SET	Д

No. 18758 PROFESSIONAL OWNER



CONSULTANT INFORMATION PROJECT MANAGER: PJJ DESIGNED BY: PJJ DRAWN BY: SPM CHECKED BY: PJJ FILENAME: G.01 LOCATION MAP AND GENERAL NOTES.dwg PROJECT NO.: 273-18-210



3091 GOVERNORS LAKE DRIVE NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

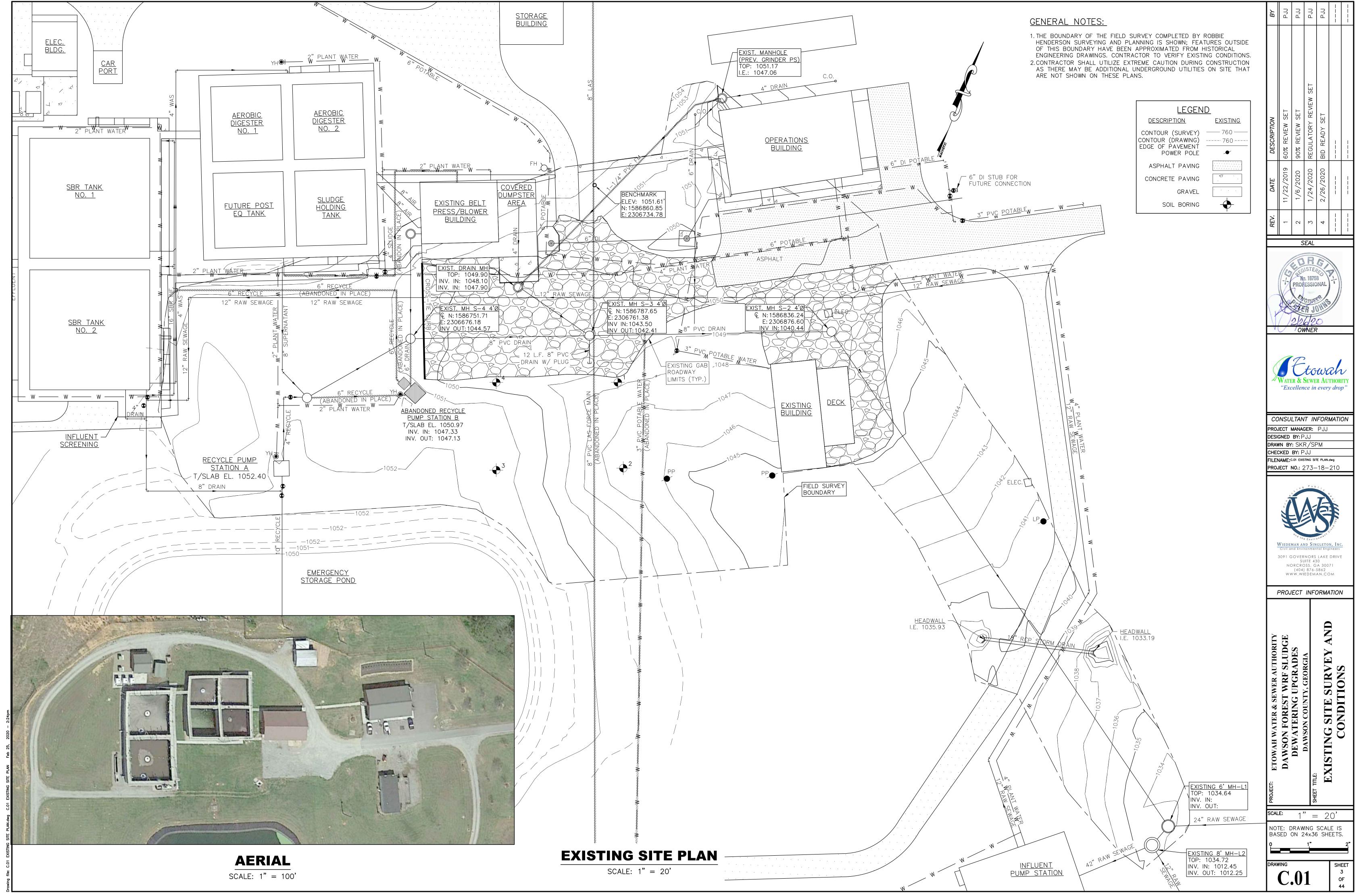
PROJECT INFORMATION

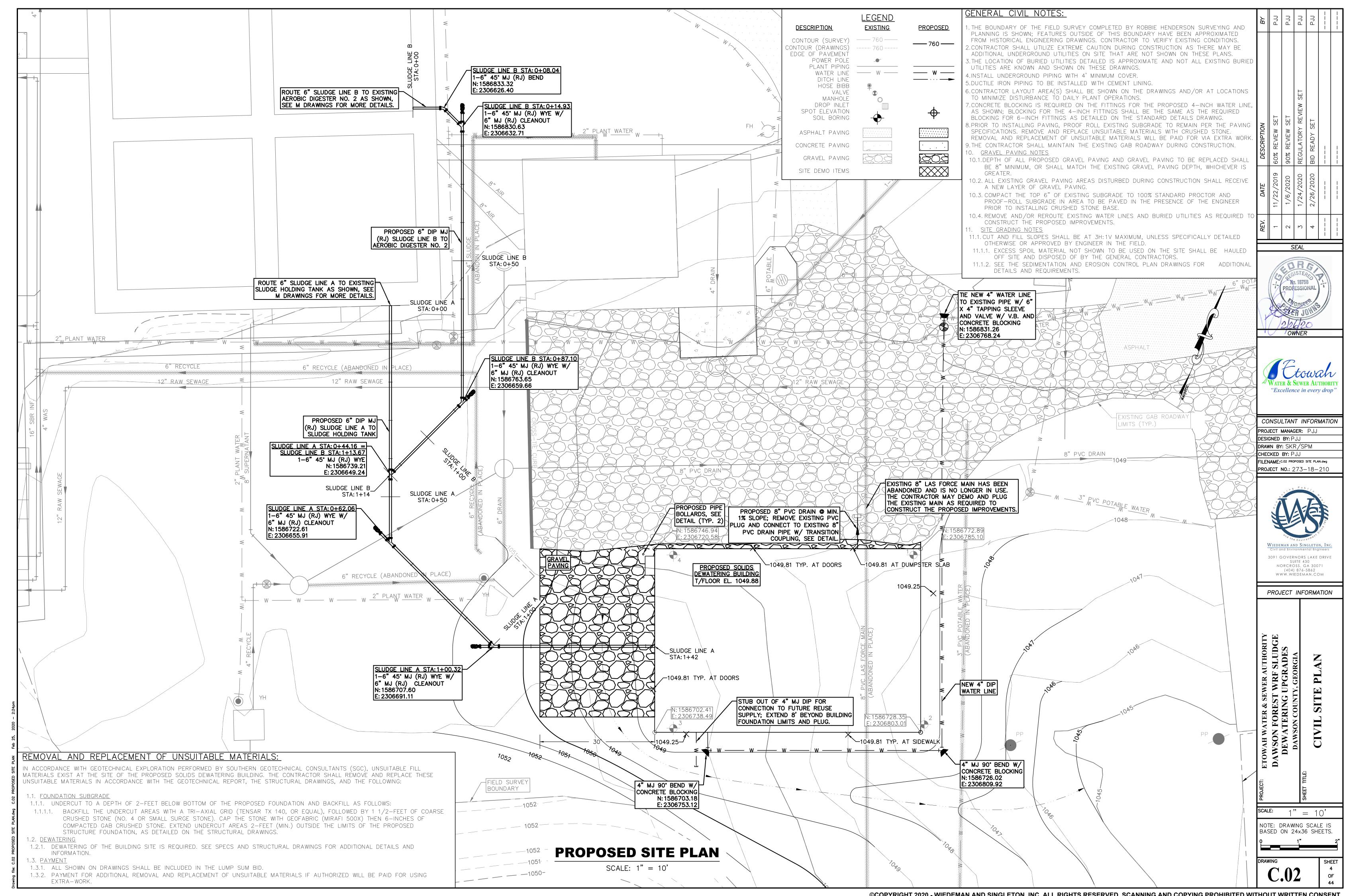
1" = 2000' NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.

WATER SERVICE WATER VALVE

WATER STOP YARD HYDRANT

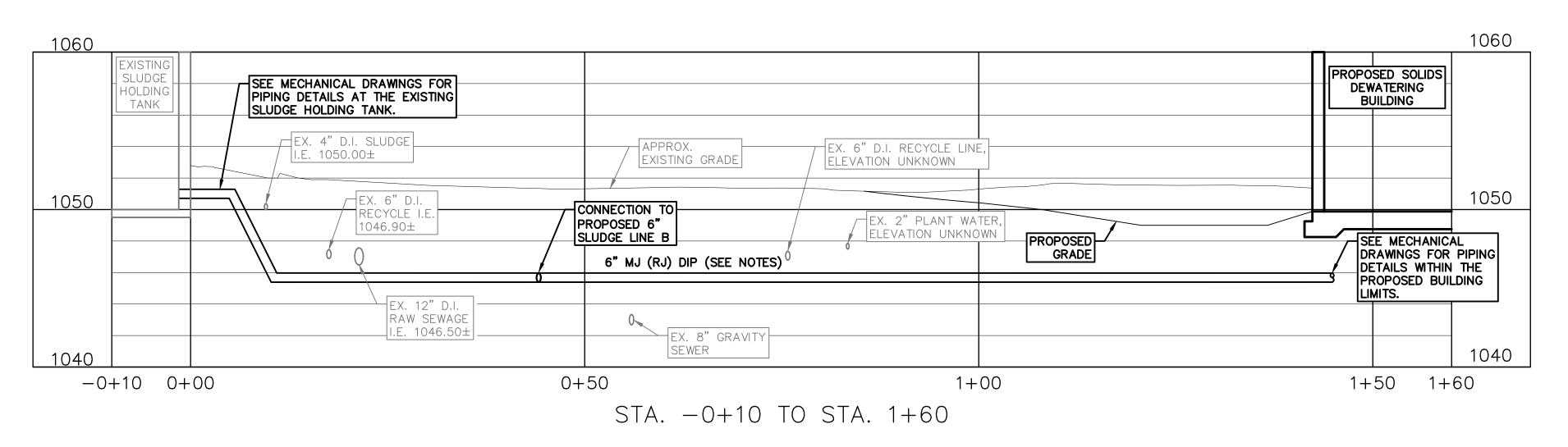
WITH





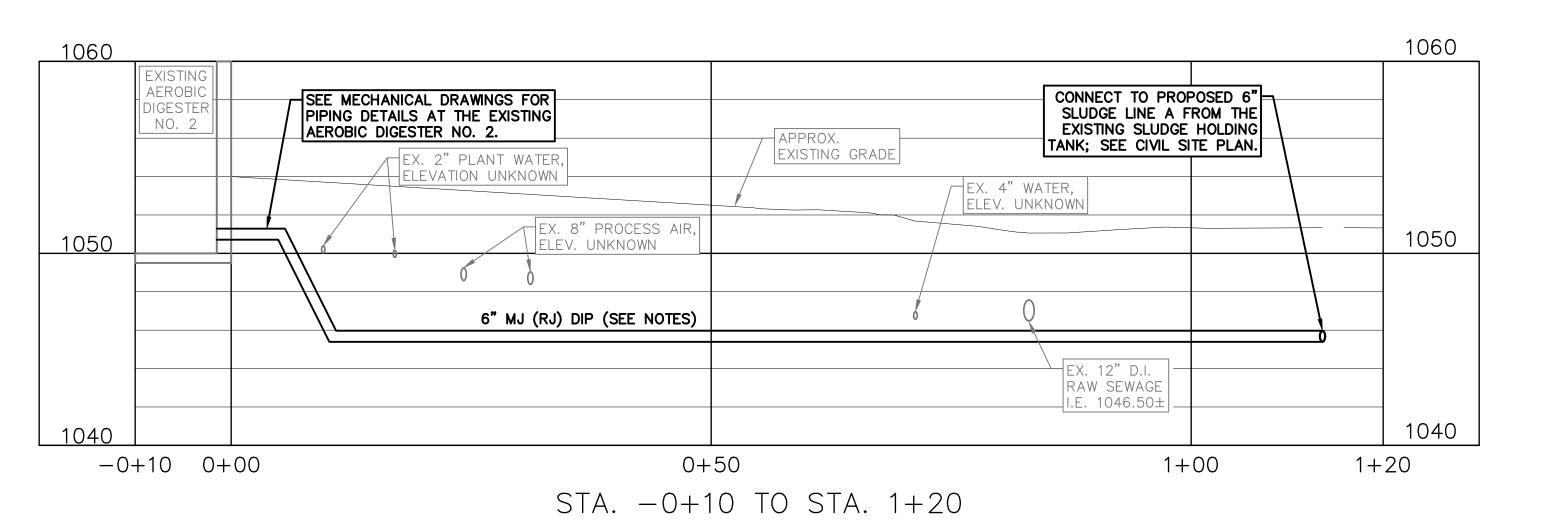
SLUDGE LINE NOTES:

- 1. THE CONTRACTOR SHALL FIELD LOCATE THE DEPTH OF ALL EXISTING PIPE CONFLICTS ALONG THE PROPOSED PIPELINE ROUTES PRIOR TO BEGINNING PIPE INSTALLATION.
- 2.THE PROPOSED 6" DIP SLUDGE LINES SHALL BE INSTALLED ON A MINIMUM 0.1% FALLING GRADE TO THE PROPOSED SOLIDS DEWATERING BUILDING (I.E., TO AVOID ANY INTERMEDIATE HIGH-POINTS BETWEEN THE SLUDGE HOLDING TANK OR AEROBIC DIGESTER NO. 2 TANK AND THE DEWATERING BUILDING).
- 3. THE PROPOSED SLUDGE LINES (A AND B) SHALL BE INSTALLED WITH A MINIMUM OF 4'-0" OF COVER OVER THE TOP OF THE PIPES.
- 4. THE CONTRACTOR SHALL ADJUST THE DEPTH OF COVER AS NEEDED TO AVOID CONFLICTS WITH EXISTING UTILITIES AND TO MAINTAIN A CONTINUOUS RISING GRADE TO THE SLUDGE HOLDING OR AEROBIC DIGESTER NO. 2 TANKS.
- 5. THE CONTRACTOR SHALL PROVIDE THE PROPOSED SLUDGE LINE PROFILES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING SLUDGE LINE INSTALLATIONS.



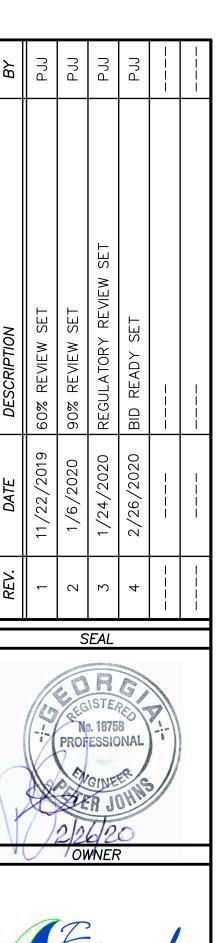
PROPOSED 6" SLUDGE LINE A - PROFILE

SCALE: 1" = 10' HOR. 1" = 5' VERT.



PROPOSED 6" SLUDGE LINE B - PROFILE

SCALE: 1" = 10' HOR. 1" = 5' VERT.



"Excellence in every drop"

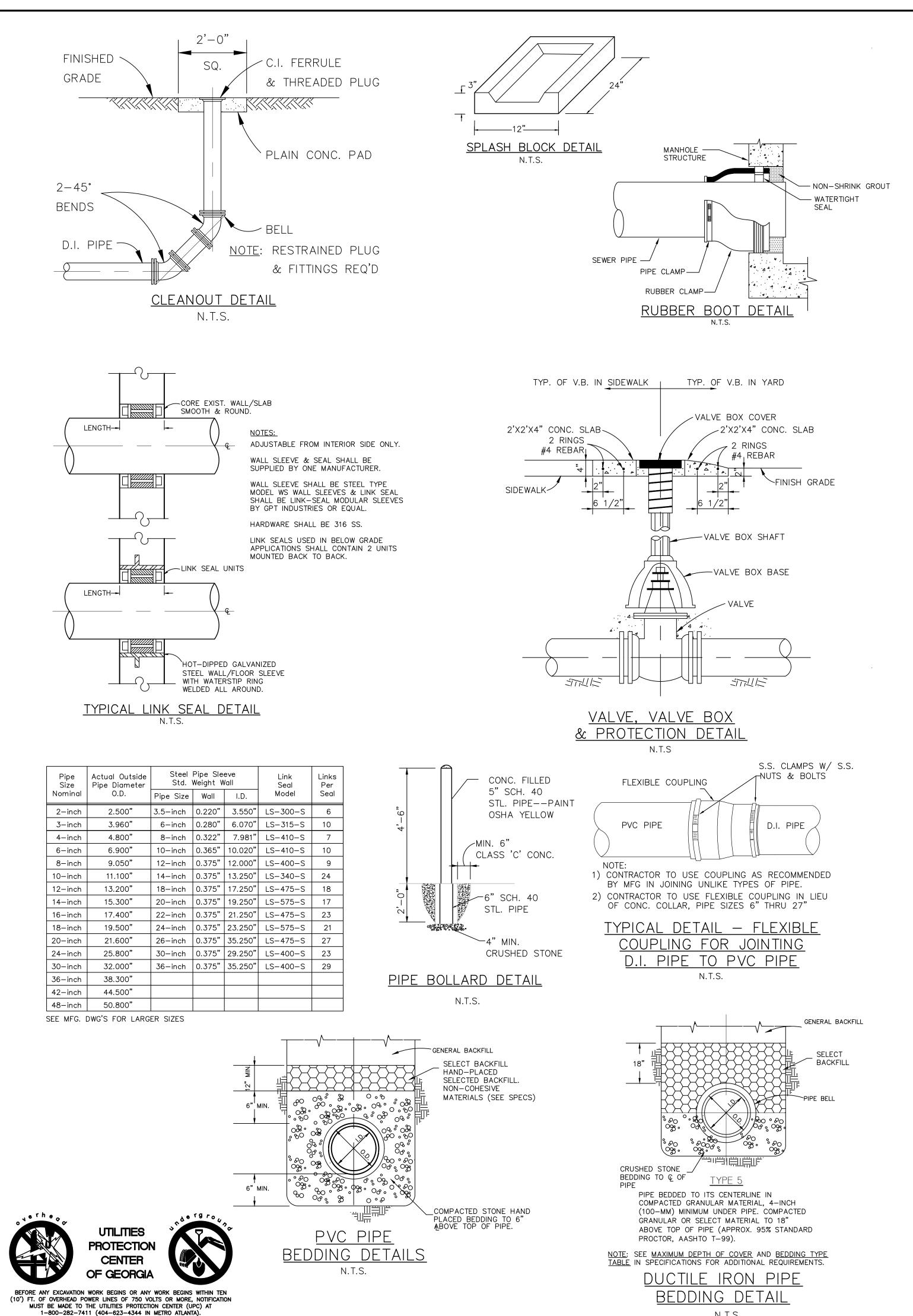
CONSULTANT INFORMATION PROJECT MANAGER: PJJ DESIGNED BY: PJJ DRAWN BY: SKR/SPM CHECKED BY: PJJ

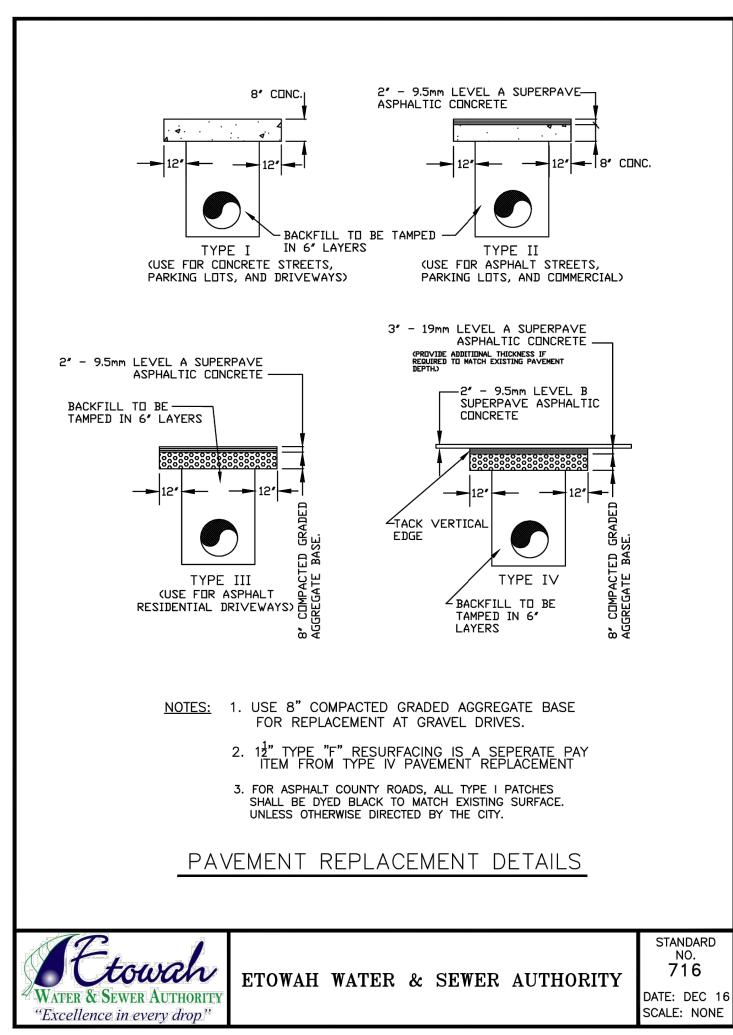
FILENAME: C.02 PROPOSED SITE PLAN.dwg PROJECT NO.: 273-18-210

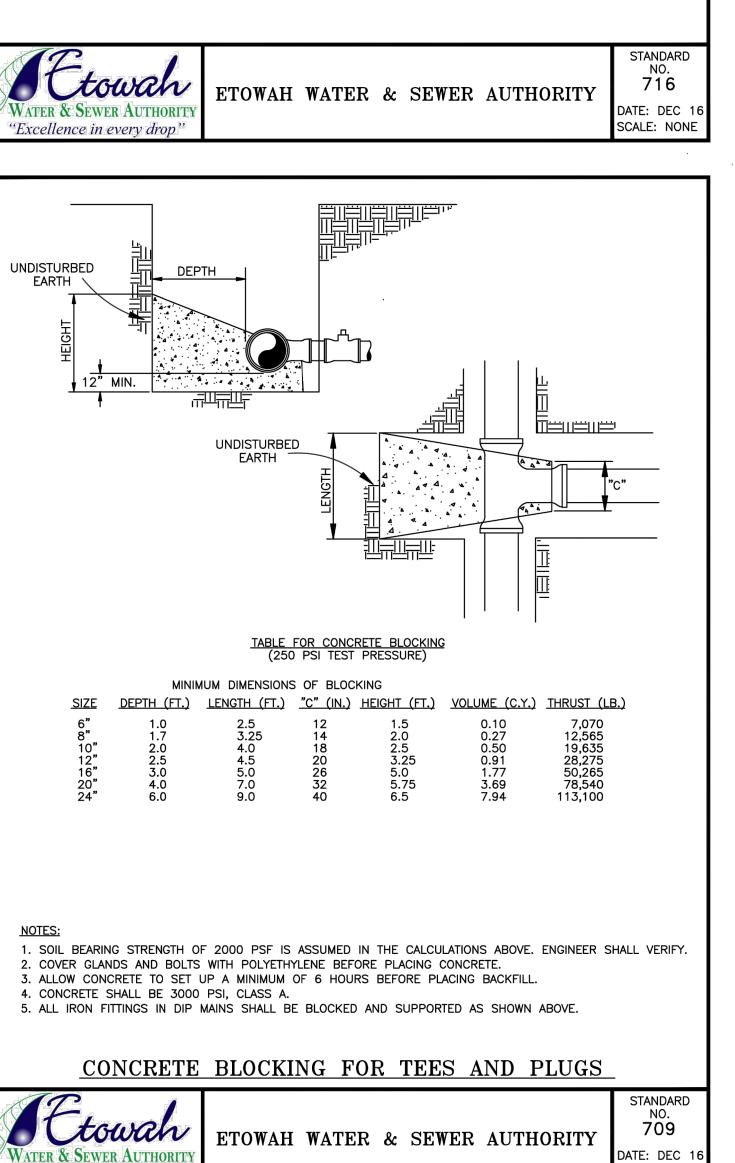
3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

scale: AS SHOWN NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.

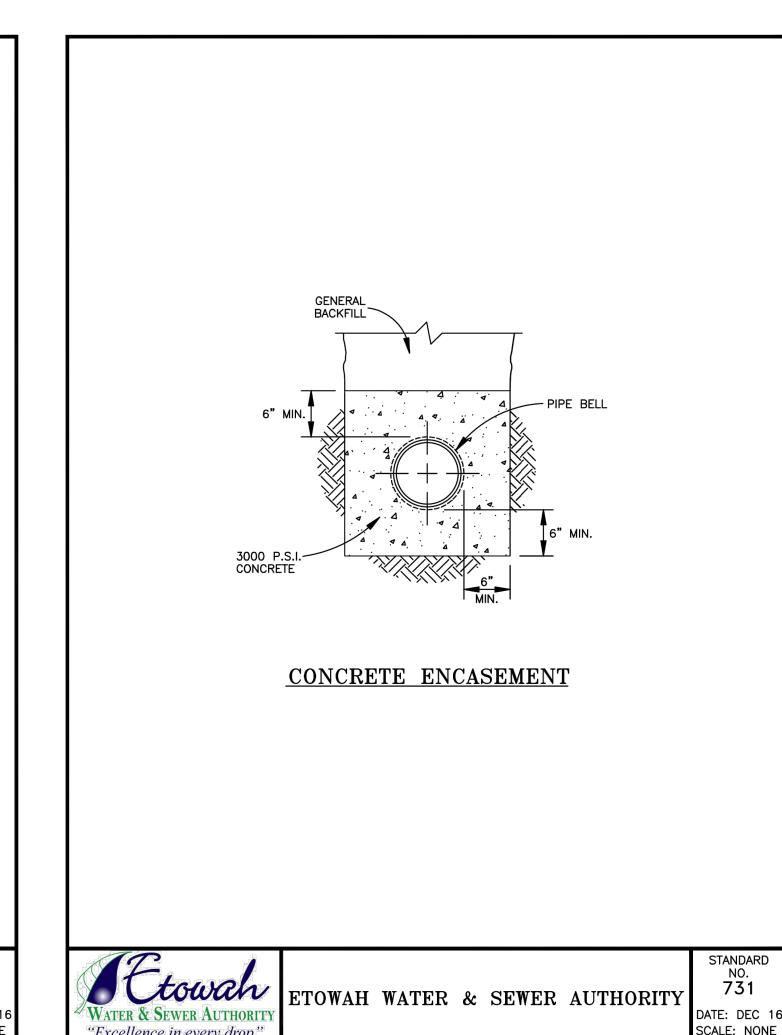


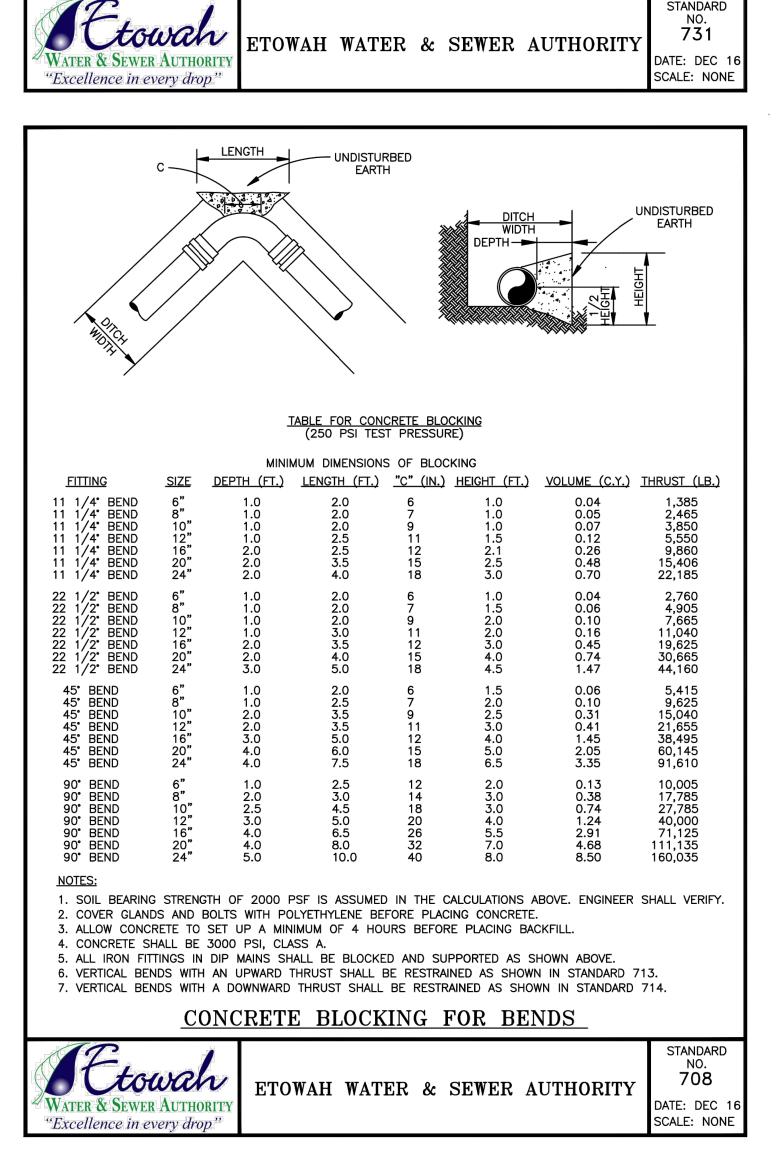


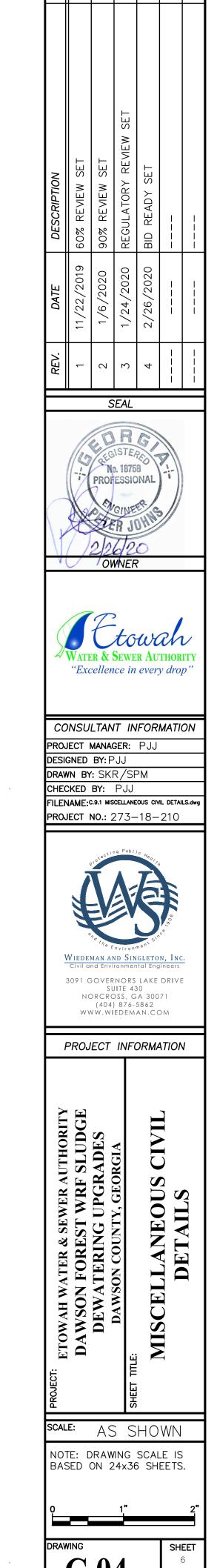


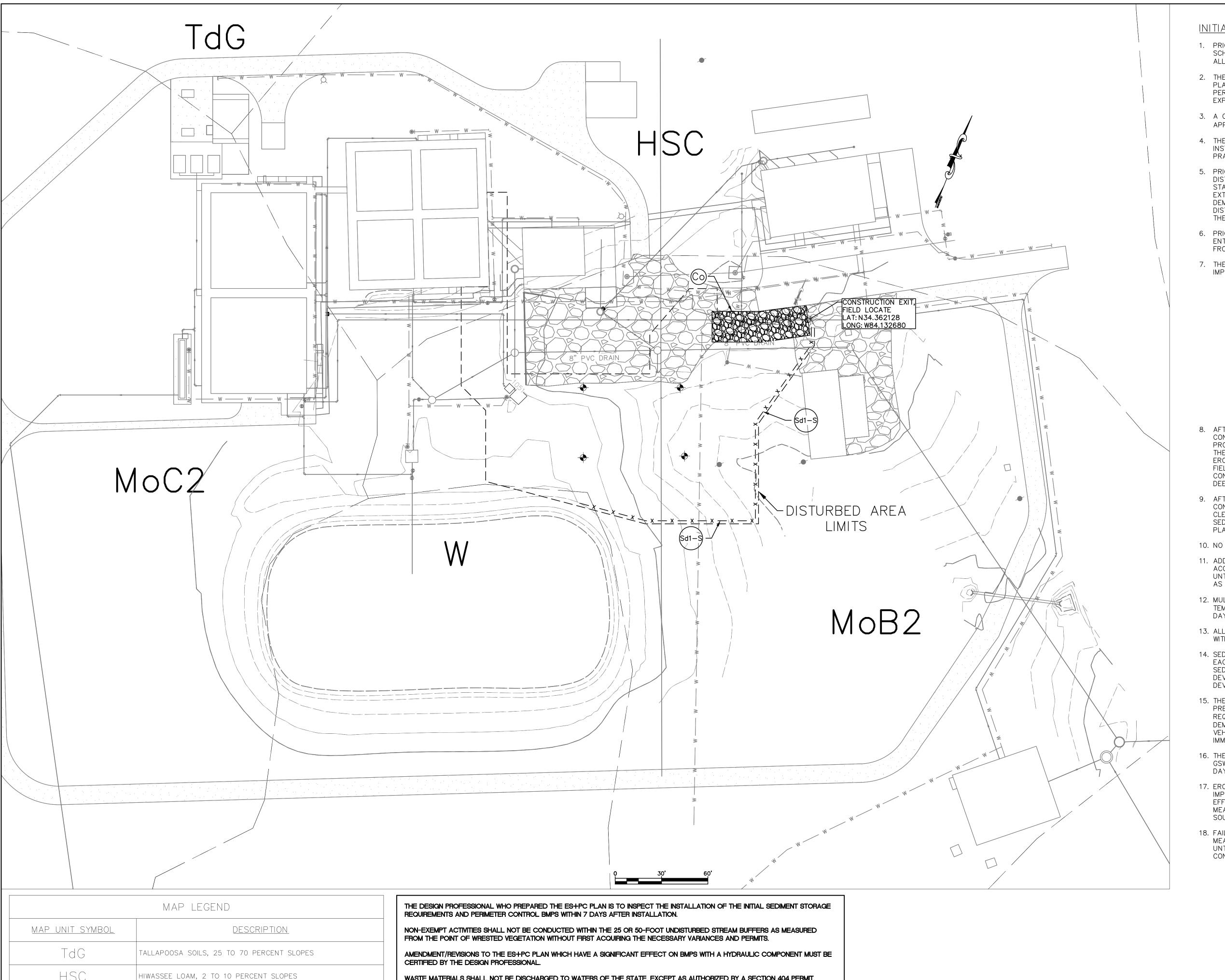
"Excellence in every drop"

SCALE: NONE



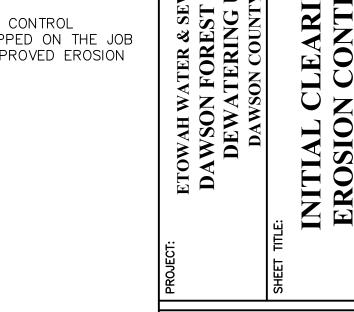






INITIAL CLEARING PHASE EROSION CONTROL NOTES:

- 1. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR TO VERIFY ALL BMP'S ARE INSTALLED PER THE PLAN.
- 2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
- 3. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT (IF APPLICABLE) SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- 4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- 5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE PLANS.
- 6. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
- 7. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 - A. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXIT ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
 - TYPE "S" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL OF EROSION CONTROL IN GEORGIA, TABLE 6-20.2. DOUBLE ROWS OF TYPE "S" SILT FENCE, WHEN USED, SHALL BE PLACED MINIMUM OF 36 INCHES APART. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT FENCE SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPLACED IMMEDIATELY.
- 8. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL CONDUCT AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
- 9. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVISION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF.
- 10. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.
- 11. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN THE INITIAL PHASE EROSION CONTROL PLAN.
- 12. MULCH/TEMPORARY GRASSING AND/OR ANIONIC POLYACRYLAMIDE (PAM) OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- 13. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- 14. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- 15. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- 16. THE CONTRACTOR SHALL PROVIDE A PERSON CERTIFIED TO LEVEL 1A BY GSWCC TO INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 17. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. 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 AS DIRECTED BY THE ON SITE INSPECTOR OR CIVIL ENGINEER.
- 18. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.



GSWCC

CERTIFICATION NUMBER _____0000019344

(10') FT. OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE, NOTIFICATION

MUST BE MADE TO THE UTILITIES PROTECTION CENTER (UPC) AT

1-800-282-7411 (404-623-4344 IN METRO ATLANTA).

PETER J. JOHNS LEVEL II CERTIFIED DESIGN PROFESSIONAL

©COPYRIGHT 2020 - WIEDEMAN AND SINGLETON, INC. ALL RIGHTS RESERVED. SCANNING AND COPYING PROHIBITED WITHOUT WRITTEN CONSENT.

1" = 30'

SEAL

No. 18758

PROFESSIONAL

OWNER

"Excellence in every drop"

CONSULTANT INFORMATION

FILENAME: ESC.01 - 05 EROSION CONTROL.dwg

3091 GOVERNORS LAKE DRIVE

SUITE 430 NORCROSS, GA 30071 (404) 876-5862

WWW.WIEDEMAN.COM

PROJECT INFORMATION

PROJECT NO.: 273-18-210

PROJECT MANAGER: PJJ

DESIGNED BY: PJJ

RAWN BY: SPM CHECKED BY: PJJ

IOTE: DRAWING SCALE I BASED ON 24x36 SHEETS.

ISSUED: <u>11/01/2018</u> EXPIRES: <u>11/01/2021</u>

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

MoC2

MoB2

WATER

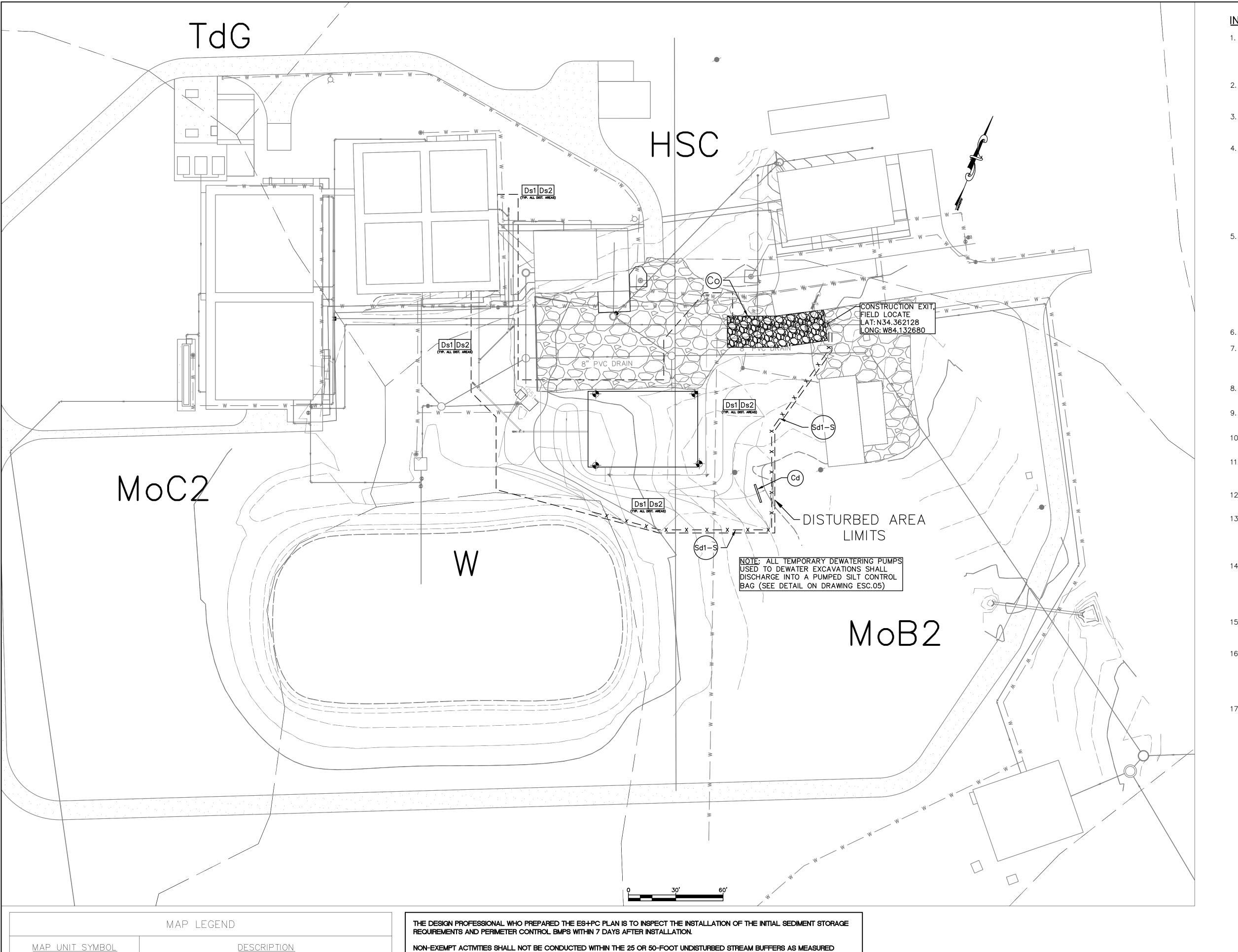
MASADA FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES, ERODED

MASADA FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES, ERODED

MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. 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.



INTERMEDIATE PHASE EROSION CONTROL NOTES:

- I. DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- 2. EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.
- 3. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- 4. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- 5. TYPE "S" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- 6. PERMANENT CUT AND FILL SLOPES ARE NOT TO EXCEED "3H:1V"
- 7. ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION.
- 8. TYPE "S" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS.
- 9. ALL DRAINAGE SWALES SHALL BE APPLIED WITH RIP-RAP (SEE DETAIL) AS SOON AS FINAL GRADE IS ACHIEVED.
- 10. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.
- 11. MULCH/TEMPORARY GRASSING AND/OR ANIONIC POLYACRYLAMIDE (PAM) OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- 12. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- 13. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- 14. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-5" OF STONE. AS CONDITIONS DEMAND, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE INTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- 15. THE CONTRACTOR SHALL PROVIDE A PERSON CERTIFIED TO LEVEL 1A BY GSWCC TO INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 16. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. 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 AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
- 17. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

${f \longmapsto}$					
DESCRIPTION	11/22/2019 60% REVIEW SET	90% REVIEW SET	1/24/2020 REGULATORY REVIEW SET	2/26/2020 BID READY SET	
DATE	11/22/2019	1/6/2020	1/24/2020	2/26/2020	
REV.	1	2	3	4	

SEAL No. 18758 PROFESSIONAL

"Excellence in every drop"

OWNER

CONSULTANT INFORMATION PROJECT MANAGER: PJJ DESIGNED BY: PJJ DRAWN BY: SPM

CHECKED BY: PJJ FILENAME: ESC.01 - 05 EROSION CONTROL.dwg PROJECT NO.: 273-18-210



3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

1" = 30'

IOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS.

ISSUED: <u>11/01/2018</u> EXPIRES: <u>11/01/2021</u>

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENT/REVISIONS TO THE ES+PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT

CONTROL OR TREAT THE SEDIMENT SOURCE.

PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO

TdG

MoC2

MoB2

WATER

TALLAPOOSA SOILS, 25 TO 70 PERCENT SLOPES

MASADA FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES, ERODED

MASADA FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES, ERODED

HIWASSEE LOAM, 2 TO 10 PERCENT SLOPES

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.



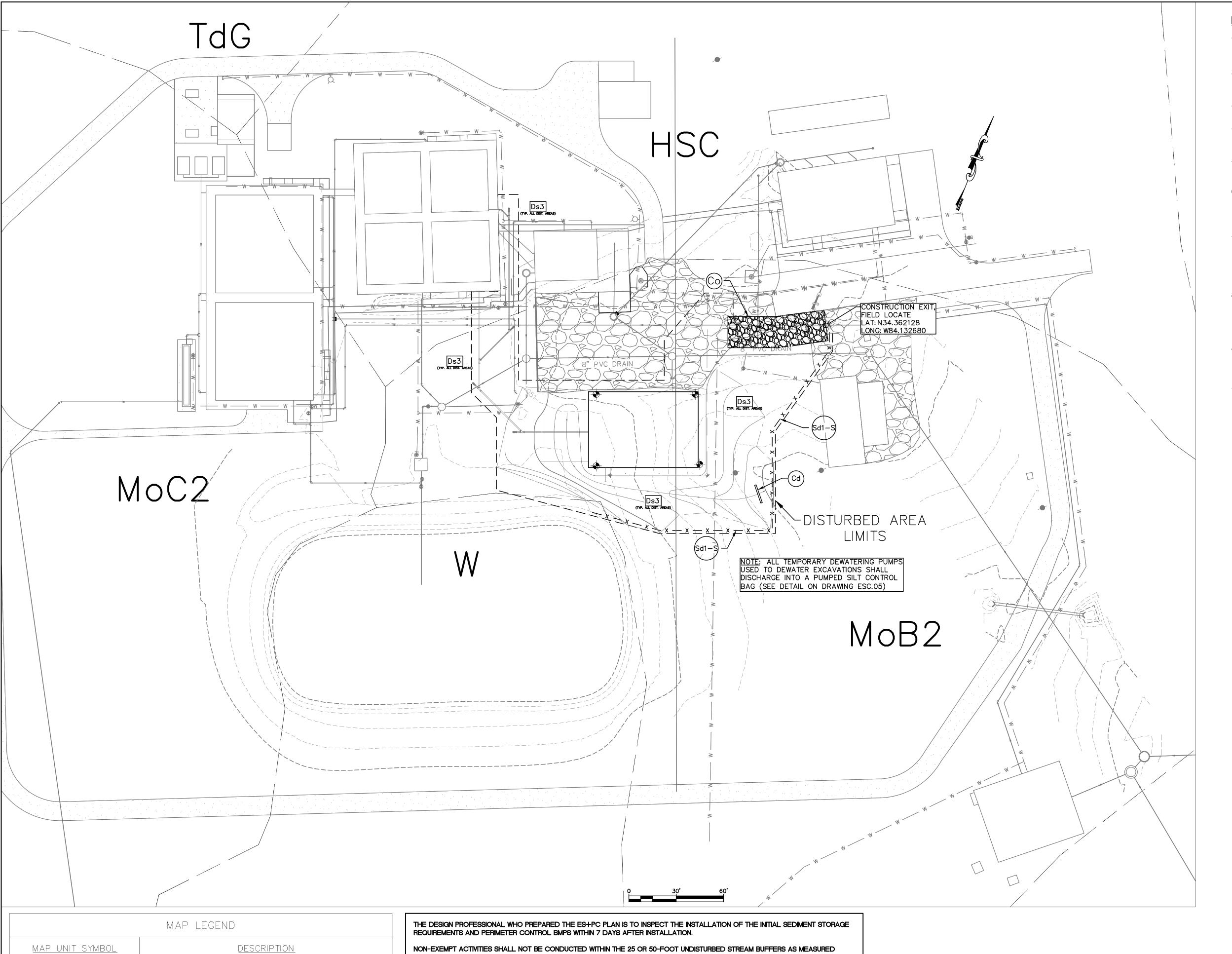
(10') FT. OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE, NOTIFICATION MUST BE MADE TO THE UTILITIES PROTECTION CENTER (UPC) AT

1-800-282-7411 (404-623-4344 IN METRO ATLANTA).

PETER J. JOHNS

GSWCC

LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION NUMBER _____0000019344



FINAL PHASE EROSION CONTROL NOTES:

- 1. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
- 2. MULCH/TEMPORARY GRASSING AND/OR ANIONIC POLYACRYLAMIDE (PAM) SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
- 3. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- 4. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 5. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
- 6. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- 7. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE. AS CONDITIONS DEMAND, ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- 8. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR CIVIL ENGINEER.
- 9. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
- 10. UPON COMPLETION AND ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS OR OTHERWISE DIRECTED IN THE FIELD BY THE OWNER OR ENGINEER.

4 <i>TE</i>	DESCRIPTION
2/2019	60% REVIEW SET
/2020	90% REVIEW SET
/2020	REGULATORY REVIEW SET
/2020	BID READY SET





PROJECT MANAGER: PJJ DESIGNED BY: PJJ DRAWN BY: SPM CHECKED BY: PJJ

CONSULTANT INFORMATION

FILENAME: ESC.01 - 05 EROSION CONTROL.dwg PROJECT NO.: 273-18-210



3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

IOTE: DRAWING SCALE I BASED ON 24×36 SHEETS

ISSUED: <u>11/01/2018</u> EXPIRES: <u>11/01/2021</u>

1" = 30'

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

TdG

MoC2

MoB2

WATER

TALLAPOOSA SOILS, 25 TO 70 PERCENT SLOPES

MASADA FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES, ERODED

MASADA FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES, ERODED

HIWASSEE LOAM, 2 TO 10 PERCENT SLOPES

AMENDMENT/REVISIONS TO THE ES+PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT

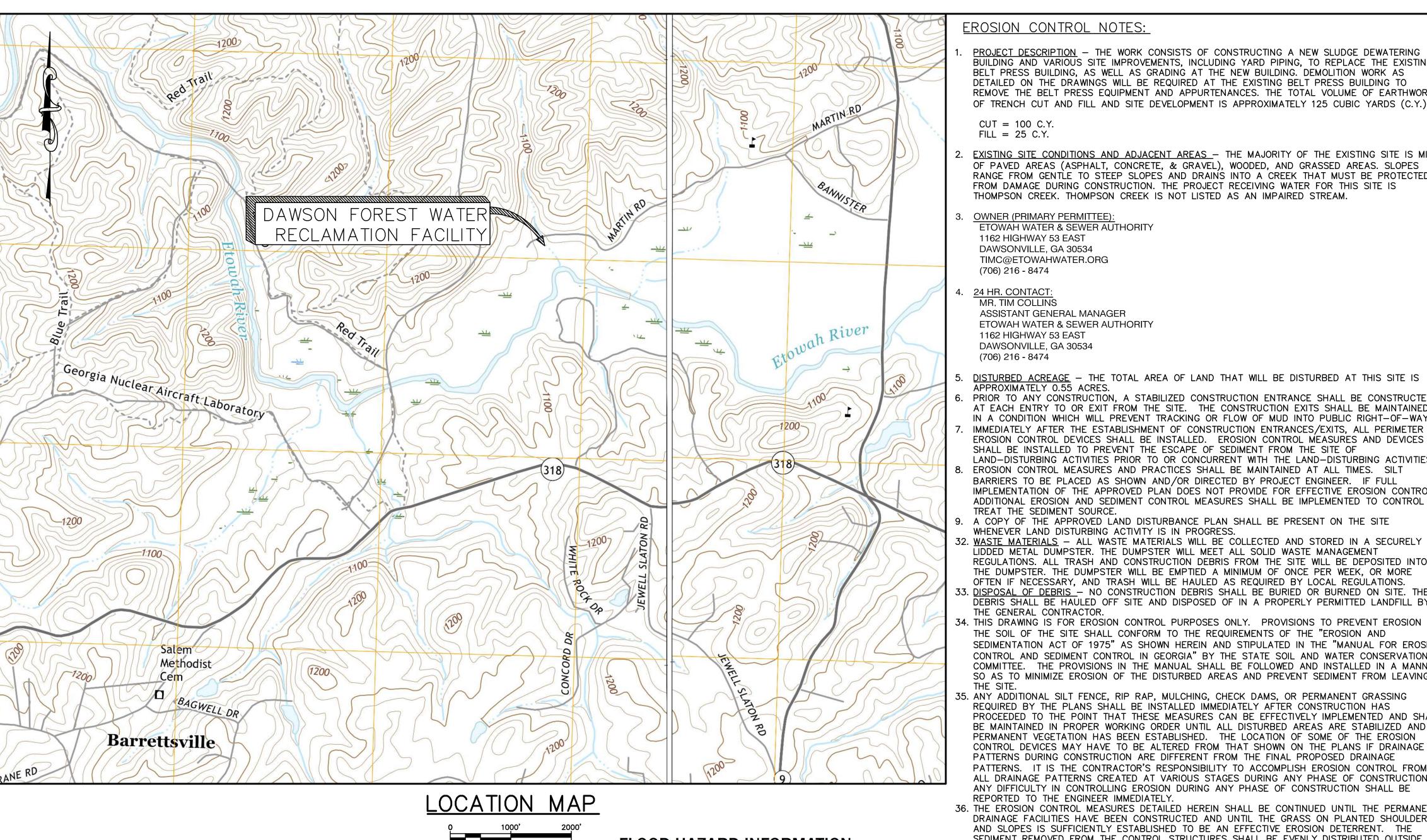
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

BEFORE ANY EXCAVATION WORK BEGINS OR ANY WORK BEGINS WITHIN TEN (10') FT. OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE, NOTIFICATION MUST BE MADE TO THE UTILITIES PROTECTION CENTER (UPC) AT

1-800-282-7411 (404-623-4344 IN METRO ATLANTA).

PETER J. JOHNS LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION NUMBER _____0000019344



DAWSON FOREST

DAWSON FOREST WRF FEMA FIRM PANEL (PARTIAL

ZONE D

Dawson County

Unincorporated Areas-

U.S. Air Force

Reservation

Dawson County

Unincorporated Areas

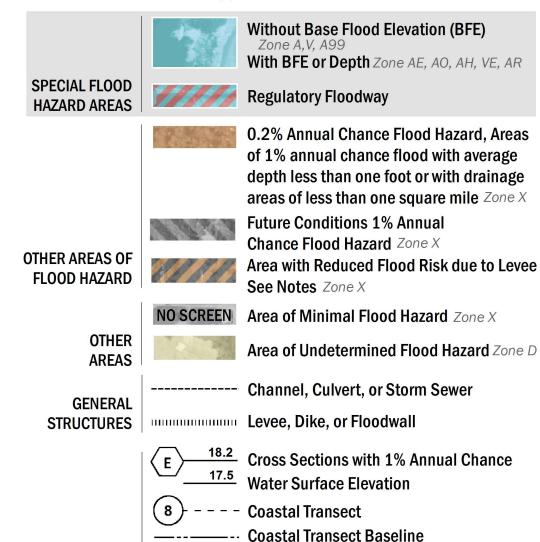
130304

FIRM PANEL #13085C0200C DATED APRIL 4, 2018

ZONE D

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



— - Profile Baseline

FEATURES

— Hydrographic Feature

----- 513 ----- Base Flood Elevation Line (BFE)

Jurisdiction Boundary

Limit of Study

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.).

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
- 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
- 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.
- 32. 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. 33. 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
- 34. 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
- 35. 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 DRAINAGI 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.
- 36. 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. 37. FLOOD HAZARD STATEMENT - THIS PROJECT OCCURS OUTSIDE THE FLOOD PLAIN PER FEMA FIRM
- PANEL # 13085C0200C DATED APRIL 4, 2018. 38. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT ACCUMULATES TO 6 INCHES OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
- 39. SILT FENCE SHALL BE PLACED DOWN GRADIENT OF ALL STOCKPILED SOIL OR BORROW AREAS. 40. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE (BOTTOM) OF SLOPES.
- 41. 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.
- 42. TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPEDED.
- 43. ALL DISTURBED AREAS WITH SLOPES 2:1 OR FLATTER WHICH ARE NOT STABILIZED BY OTHER MEASURES SUCH AS MULCHING SHALL BE SEEDED AS SPECIFIED IN "PERMANENT SEEDING."
- 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 <u>CONTROL MATTING OR BLANKETS ARE INSTALLED</u>
- SECTION BEFORE MOVING TO ANOTHER SECTION. ADDITIONAL EROSION CONTROL REQUIREMENTS ARE INCLUDED IN THE CONSTRUCTION SPECIFICATIONS.
- 46. CONTRACTOR SHALL PROVIDE A 24-HOUR CONTACT FOR EROSION CONTROL PRIOR TO BEGINNING

EROSION CONTROL CERTIFICATION:

- I CERTIFY THAT THE PERMITTEE'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 COMMISION AS OF JANUARY OF THE YEAR IN WHICH LAND DISTRUBING ACTIVITY WAS PERMITTED.
- THE CONTRACTOR SHALL DEVELOP A PLAN THAT PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001
- I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A VISIT TO THE LOCATIONS DESCRIBED HERIN 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

- 47. 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.
- 48. 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.

49. 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 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. 28. PERMANENT SEEDING (DS3)

SEEDBED PREPARATION AREA TO BE SEEDED SHALL BE LOOSE AND PLIABLE TO A DEPTH OF AT LEAST 3 INCHES. $\,$ THE TOP LAYER SHALL BE LOOSENED 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

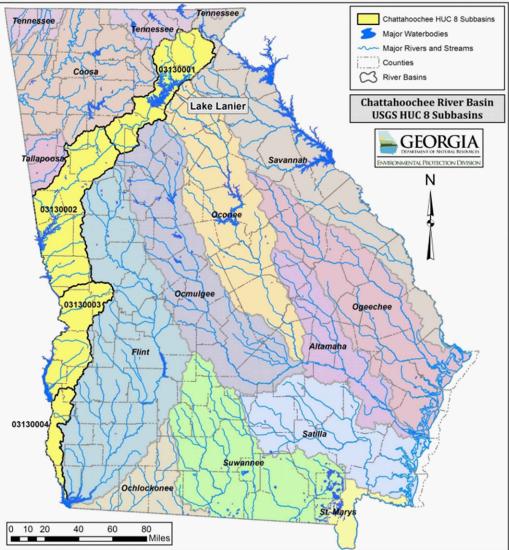
APPLY SEED FOR PERMANENT VEGETATION PER VEGETATIVE COVER SCHEDULE ABOVE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY) ON A MOIST, FIRM SEEDBED. MAXIMUM SEED DEPTH SHOULD BE 1/2 INCH IN CLAY 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.

- 30. 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—YR FLOOD LIMITS.
- <u>STREAM BUFFERS</u> 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.
- 32. MAINTENANCE OF ALL EROSION CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER.
- 33. ANY SOIL OR DEBRIS ON ROAD WILL BE REMOVED DAILY OR IMMEDIATELY IF A HAZARDOUS ROAD CONDITION EXISTS.
- 34. EXPOSED SOIL WILL BE COVERED DAILY USING Ds1, Ds2, OR Ds3. 35. SEE THE EROSION CONTROL PLANS AND DETAIL SHEETS FOR ADDITIONAL DETAILS AND
- REQUIREMENTS. 36. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A COMPREHENSIVE MONITORING PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF NPDES GENERAL PERMIT NO. GAR100001. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH NPDES GENERAL PERMIT NO. GAR
- 37. THE CONTRACTOR SHALL PROVIDE SECONDARY SPILL CONTAINMENT FOR ALL PETROLEUM (GASOLINE, DIESEL, ETC.) TANKS USED DURING CONSTRUCTION.

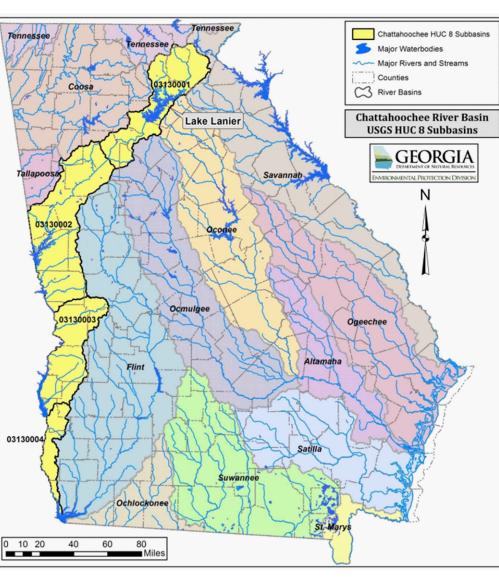
100001. SEE THE CONTRACT SPECIFICATIONS FOR ADDITIONAL DETAILS.

38. DRAINAGE BASINS

38.1. THE SLUDGE DEWATERING UPGRADES PROJECT DISTURBS APPROXIMATELY 0.55 ACRES OF GRASSED AND GRAVEL 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.



GEORGIA RIVER BASINS



GSWCC

LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER _____0000019344

ISSUED: <u>11/01/2018</u> EXPIRES: <u>11/01/202</u>

GEORGIA SOIL AND WATER CONSERVATION COMMISSION PETER J. JOHNS

1" = 30IOTE: DRAWING SCALE BASED ON 24x36 SHEETS

SEAL

No. 18758

PROFESSIONAL

OWNER

"Excellence in every drop

CONSULTANT INFORMATION

PROJECT MANAGER: PJJ

DRAWN BY: SKR/SPM

FILENAME: ESC.04 EROSION CONTROL NOTES &

3091 GOVERNORS LAKE DRIVE

SUITE 430 NORCROSS, GA 30071

(404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

PROJECT NO.: 273-18-210

DESIGNED BY: PJJ

CHECKED BY: PJJ

(10') FT. OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE, NOTIFICATION

44. ALL VEGETATIVE STABILIZATION SHALL BE ACCOMPLISHED WITHIN ONE DAY OF CONSTRUCTION. IN 45. WORK WILL BE DONE TO MINIMIZE EXPOSED AREAS. GRASSING WILL BE SOWN ON A DISTURBED

MUST BE MADE TO THE UTILITIES PROTECTION CENTER (UPC) AT 1-800-282-7411 (404-623-4344 IN METRO ATLANTA).

UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

DESCRIPTION

mall temporary barrier or dam cons

proving, constructing or stabilizing an land

struction site exit to provide a place fo oving mud from tires thereby protectin

temporary channel

structed to convey flow

ound a construction site while

permanent structure is being

elow, or across a slope to divert runoff. The ay be a temporary or permanent structure

terial designed to safely conduct surface off down a slope. This is temporary and

aved chute, pipe, sectional conduit or lar material designed to safely conduc

k filled baskets which are hand-place position forming soil stabilizing

rural or artificial channels or waterways

ere otherwise the slope would be suffic

rater into less erosive sheet flow. This show

onstructed only on undisturbed soils

2.35 C.Y OR 5 TON INDUSTRIAL WASHOUT CONTAINMENT SYSTEM

1. LOCATION OF CONCRETE WASHOUT AREA (CWA) SHALL BE FIELD

2. INSTALL A SIGN ADJACENT TO THE CWA TO INFORM CONCRETE

4. CWA SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE

7. CWA SHALL BE INSPECTED WEEKLY FOR DAMAGE AND REPAIRED

EQUIPMENT OPERATORS TO UTILIZE THE PROPER AREA. 3. CWA SHALL BE ECO-PAN OR APPROVED EQUAL TYPE.

BY ECO-PAN OR EQUAL

LOCATED AT A LOCATION AGREED TO WITH OWNER.

5. SIZE OF CWA SHALL ALLOW FOR 12" OF FREE BOARD. 6. CWA SHALL BE REPLACED ONCE THE CWA IS 75% FULL.

CONCRETE WASHOUT AREA

<u>PLAN</u>

WASTE FROM WASHOUT OPERATIONS.

NOTES:

AS REQUIRED.

the running water to form gullies.

face runoff down a slope.

CODE PRACTICE

DETAIL

SYMBOL

VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Rd	ROCK FILTER DAM		33	A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re (Label)	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETROFITTING		(Label)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		TYPE (Indicated type)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel or a sediment fence. The barriers are usually temporary and inexpensive.
Sd2	INLET SEDIMENT TRAP	W W W W W W W W W W W W W W W W W W W		An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. The basin is usually temporary but may be designed as a permanent pond or stormwater retention device.
Sr	TEMPORARY STREAM CROSSING		Sr (Label)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORM DRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		H Su H	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Тр	TOPSOILING	W W (1, W)	(Show Stripping & Storage Areas)	The practice of stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after the completion of construction activities.
Wt	VEGETATED WATERWAY OR STORMWATER	X X X X	=	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar

PUMPED SILT CONTROL BAG TO BE

MANUFACTURED BY LAYFIELD

MANUFACTURED BY ACF

MIN. SIZE = 15'X15'

*SIZE FOR REQUIRED FLOW

GEOSYNTHETICS AND INDUSTRIAL

FABRICS, LTD. OR DIRTBAG AS

ENVIRONMENTAL, INC. OR EQUAL

DETAIL OF PUMPED SILT CONTROL BAG

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (Label)	An undisturbed natural "green belt" separating the land-disturbed site from surrounding property and bordering streams. It serves to reduce water velocity and remove some sediment. It is also at times a noise or "vision pollution" barrier.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	* * * * * * * * * * * *	Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	A STATE OF THE STA	Ds2	Establishing temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS	North Market	Du	Controlling surface and air movement of dust on construction sites, roadways and similar sites.
Mb	EROSION CONTROL MATTING AND BLANKETS		H Mb H	The installtion of a protective covering (blanket) or soil stabilization mat on a prepared planting area of a steep slope, channel, or shoreline.

EROSION CONTROL CERTIFICATION:

- 1. I CERTIFY THAT THE PERMITTEE'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 COMMISION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTRUBING ACTIVITY WAS PERMITTED.
- 2. THE CONTRACTOR SHALL DEVELOP A PLAN THAT PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.
- 3. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A VISIT TO THE LOCATIONS DESCRIBED HERIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.'

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

SET POST AT 4'-0" MAX. SPACING (O.C.)

ABOVE GROUND

EXISTING GROUND

— 6" BURY

WOVEN WIRE FENCE BACKING

FILTER FABRIC

SECTION (A)

MANAGEMENT PLAN AND MAINTENANCE:

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND AFTER EACH HEAVY—RUNOFF PRODUCING RAINFALL. ALL NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM. THE FAILURE OF ANY EROSION CONTROL DEVICE TO FUNCTION AS INTENDED, FOR ANY REASON, SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON—SITE INSPECTION BY THE OWNER, ENGINEER OR COUNTY INSPECTOR. STRUCTURES THAT SHALL BE INSPECTED INCLUDE:

| Ds1 | Ds2 | Ds3 SEEDING, AND FERTILIZING

SEEDED AREA SHALL BE INSPECTED FOR FAILURE AND NECESSARY REPAIRS SHALL BE MADE WITHIN THE SAME SEASON, IF POSSIBLE. IF NEEDED, UTILIZE Ds1 WHERE TEMPORARY SEEDING IS NOT PRACTICAL.

(Sd1

ANY FABRIC WHICH COLLAPSES. TEARS, DECOMPOSES, OR BECOMES INEFFECTIVE WILL BE REPLACED IMMEDIATELY. REMOVE SEDIMENT DEPOSITS BEHIND FENCE WHEN SEDIMENT ACCUMULATES TO 6 INCHES.

INLET PROTECTION

REMOVE SEDIMENT WHEN 6 INCHES OF SEDIMENT HAS ACCUMULATED IN THE SEDIMENT AROUND THE INLET.

STONE CHECK DAM (Cd)

INSPECT FOR SIGNIFICANT EROSION AROUND THE EDGES AND BETWEEN DAMS. INSTALL PROTECTIVE RIP RAP LINERS IN PORTIONS OF THE CHANNEL WHERE EROSION OCCURS. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS REQUIRED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ADD STONES TO DAMS AS REQUIRED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

CONSTRUCTION EXIT

MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE

VEGETATIVE COVER SCHEDULE

		Rate/Acre		Rate/Acre
Month	Temporary Ds2	Aloné - Mix	Permanent Ds3	Alonė – Mix
January	Rye Annual Ryegrass	3 bu5 bu. 40 lbs.	Sericea Lespedeza ² Unhulled Bermuda Kentucky 31 Fescue	75 lbs. 10 lbs. 50 lbs. 30 lbs.
February	Rye Annual Ryegrass Annual Lespedeza ²	3 bu5 bu. 40 lbs. 40 lbs. 10 lbs.	Sericea Lespedeza ^{1, 2} Kentucky 31 Fescue	75 lbs. 50 lbs. 30 lbs.
March	Annual Ryegrass	40 lbs.	Sericea Lespedeza ² Hulled Bermuda Kentucky 31 Fescue	60 lbs. 10 lbs. 6 lbs. 50 lbs. 30 lbs.
April	Sudangrass Brown Top Millet	60 lbs. 40 lbs. 10 lbs.	Same as March	
May	Same as April		Same as March	
June	Same as April		Hulled Bermuda	10 lbs. 6 lbs.
July	Sudengrass Pearl Millet	60 lbs. 50 lbs.		
August	Pearl Millet	50 lbs.		
September	Same as January		Sericea Lespedeza²	75 lbs.
October	Wheat Annual Ryegrass Rye	3 bu5 bu. 40 lbs. 3 bu5 bu.	Same as September Kentucky 31 Fescue	50 lbs. 30 lbs.
November	Same as October		Same as January	
December	Same as October		Same as January	

Seed should be scarified.

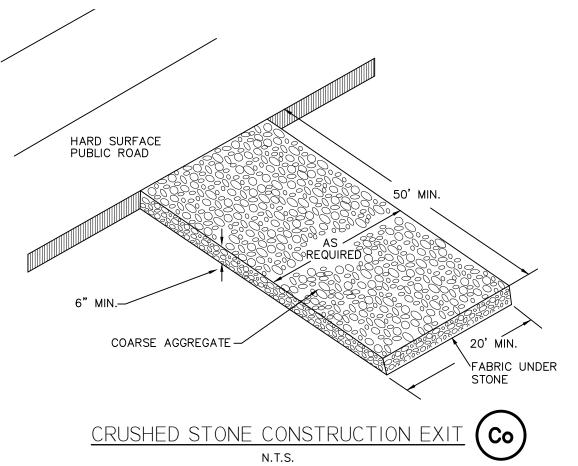
For temporary vegetation, provide 500-700 lbs. of 10-10-10 fertilizer per acre. For permanent vegetation, provide agricultural lime at 1.5 tons per acre and 10—10—10 fertilizer at 1500 lbs. per acre.

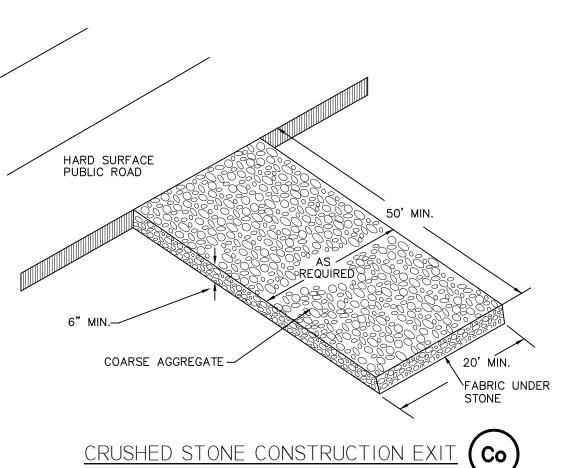
CONSTRUCTION SCHEDULE

001	151110	<u> </u>	<u> </u>		.∟				
A OTIVITY					MONTHS				9
ACTIVITY	1*	2	3	4	5	6	7	8	9
INSTALLATION OF SEDIMENT CONTROL									
CLEARING, GRUBBING & GRADING	_	 							
CONSTRUCTION	_								
MAINTENANCE OF SEDIMENT CONTROL	_								
TEMPORARY GRASSING	_								
PERMANENT GRASSING									
CLEANUP & PROJECT CLOSEOUT									
REMOVAL OF EROSION CONTROL DEVICES									

* THE APPROXIMATE BEGINNING DATE FOR WORK IS APRIL 6, 2020 EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES. THE ABOVE SCHEDULE INDICATES ESTIMATED SEQUENCE AND DURATION OF EVENTS IN CONSTRUCTION ACTIVITIES. IT HAS BEEN PREPARED WITHOUT THE ASSISTANCE OF THE CONTRACTOR. AFTER SELECTION OF THE CONTRACTOR BY THE OWNER, THE CONTRACTOR MAY PROPOSE ADJUSTMENT TO THIS SCHEDULE AS CONSIDERED NECESSARY TO SCHEDULE THE PROJECT. HOWEVER, SUCH ADJUSTMENT MUST BE APPROVED IN ADVANCE BY THE LAND DISTURBANCE PERMIT ISSUING AGENCY.

- 1. CONFIRM LOCATION OF AND CONSTRUCT/INSTALL SILT FENCES, CHECK DAMS AND THE CONSTRUCTION ENTRANCE AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
- 2. CLEAR, GRUB, AND STRIP TOPSOIL IN ACCORDANCE WITH CONTRACT SPECIFICATIONS (IF REQUIRED)
- 3. BEGIN EXCAVATION AND GRADING ACTIVITIES AFTER ALL REQUIRED EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND CONSTRUCTED.
- 4. BEGIN CONSTRUCTION AND APPLY PERMANENT SOIL STABILIZATION, WHEN APPROPRIATE, IN ACCORDANCE WITH CONTRACT SPECIFICATIONS 5. AREAS TO BE LEFT DORMANT FOR LONGER THAN 7 DAYS THAT HAVE NOT ALREADY BEEN PERMANENTLY SEEDED MUST BE TEMPORARILY STABILIZED.
- 6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH HEAVY RUNOFF-PRODUCING RAINFALL. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY.
- 7. AFTER GROUND COVER IS WELL ESTABLISHED AND THE SITE IS STABILIZED, RETURN TO THE SITE AND REMOVE ALL TEMPORARY MEASURES INCLUDING SILT FENCES AND ROCK CHECK DAMS. INSTALL
- PERMANENT VEGETATION TO ALL AREAS DISTURBED BY THE TEMPORARY MEASURES. 8. REMOVE EROSION CONTROL MEASURES WITHIN 30 CALENDAR DAYS AFTER FINAL SITE STABILIZATION.





- PLACE BAG ON BED OF

OR PUMPED SILT

FLOW

OPENING SIZE TO ACCOMODATE REQUIRED

CARRIER PIPE/HOSE.

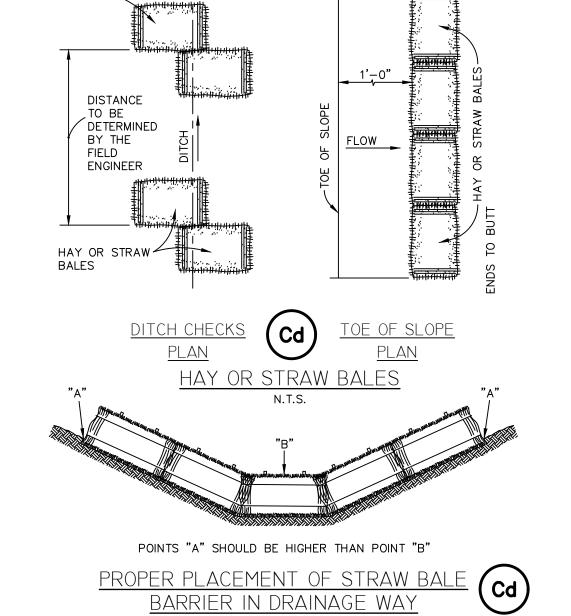
PUMP DISCHARGE HOSE

— DEWATERING PUMP

AGGREGATE OR STRAW

DISCHARGE HOSE/PIPE

2. MATERIALS



1. DESCRIPTION: WATER PERMEABLE FILTER FENCE MATERIAL COMPOSED OF STRONG ROT PROOF SYNTHETIC FIBERS FORMED INTO A MATRIX OF WOVEN OR NON-WOVEN FABRIC. EITHER TYPE OF FABRIC SHALL BE FREE OF ANY TREATMENT OF COATING WHICH MIGHT SIGNIFICANTLY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION. THE FABRIC

SHALL CONTAIN STABILIZER AND/OR INHIBITORS TO MAKE THE FILAMENTS RESISTANT TO DETERIORATION RESULTING FROM EXPOSURE TO SUNLIGHT OR HEAT. THE FABRIC

SHALL BE A PERVIOUS SHEET OF SYNTHETIC FIBERS ORIENTED INTO A NETWORK SO THAT FIBERS RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER. EDGES

OF THE FABRIC SHALL BE FINISHED TO PREVENT THE OUTER YARN FROM PULLING AWAY FROM THE MATERIAL. THE FABRIC SHALL BE FREE OF DEFECTS OR FLAWS WHICH SIGNIFICANTLY AFFECT THE PHYSICAL AND/OR FILTERING PROPERTIES. THE FABRIC SHALL HAVE A MINIMUM WIDTH OF THIRTY SIX (36) INCHES. SHEETS OF FABRIC MAY BE

1.STEEL: POSTS SHALL BE ROUND, U.T. OR C SHAPED WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER FOOT AND HAVE PROJECTIONS FOR FASTENING THE WIRE TO THE

3. INSTALLATION: TEMPORARY SILT FENCE INSTALLATION SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

4. MAINTENANCE: THE DEVELOPER/CONTRACTOR SHALL MAINTAIN THE SILT FENCE UNTIL THE LDA IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED. FILTER FABRIC SHALL BE REMOVED AND REPLACED WHENEVER IT HAS DETERIORATED OR BEEN OTHERWISE DAMAGED TO SUCH EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE INSTALLATION

OF FABRIC FENCE MATERIAL IN AREAS OF CONCENTRATED FLOW IS NOT RECOMMENDED UNLESS PROPER PROVISIONS ARE MADE TO SUPPLEMENT OR OTHERWISE STRENGTHEN THE FENCE TO WITHSTAND INCREASED DRAINAGE WATER VELOCITIES. NOTE: VENDOR MUST SUPPLY LETTER OF WARRANTY FOR AFORMENTIONED SPECIFICATIONS. IN ADDITION,

BOTTOM OF -

PERMITTED DUE TO THE PRESENCE OF THE SEAM. THE FABRIC MAY BE MANUFACTURED WITH POCKETS FOR POSTS, HEMS WITH CORD POSTS PREATTACHED.

FENCE FOR TYPE A OR C FABRIC. WITH A MINIMUM LENGTH OF FOUR (4) FEET. SPACING FOUT (4) FOOT CENTER MAXIMUM.

B. FABRIC: USE TYPE C 36" GA. D.O.T. APPROVED FABRIC. FABRIC SHALL HAVE P-FACTOR NO GREATER THAN 0.030

C. FASTENERS: SECURLY FASTEN FILTER FABRIC TO WOVEN WIRE FENCE BACKING & POSTS WITH WIRE.

2" WIDE x 6" DEEP TRENCH

THIS LETTER SHOULD STATE THAT THE FABRIC IS ON THE GEORGIA QPL #36.

FENCE AND EXTEND IT

BACKFILL & COMPACT



(10') FT. OF OVERHEAD POWER LINES OF 750 VOLTS OR MORE, NOTIFICATION MUST BE MADE TO THE UTILITIES PROTECTION CENTER (UPC) AT

1-800-282-7411 (404-623-4344 IN METRO ATLANTA).



PETER J. JOHNS

LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION NUMBER _____0000019344

ISSUED: <u>11/01/2018</u> EXPIRES: <u>11/01/2021</u>

SEAL

No. 18758 PROFESSIONAL OWNER



CONSULTANT INFORMATION PROJECT MANAGER: PJJ DESIGNED BY: PJJ DRAWN BY: SPM CHECKED BY: PJJ FILENAME:DETAILS.dwg

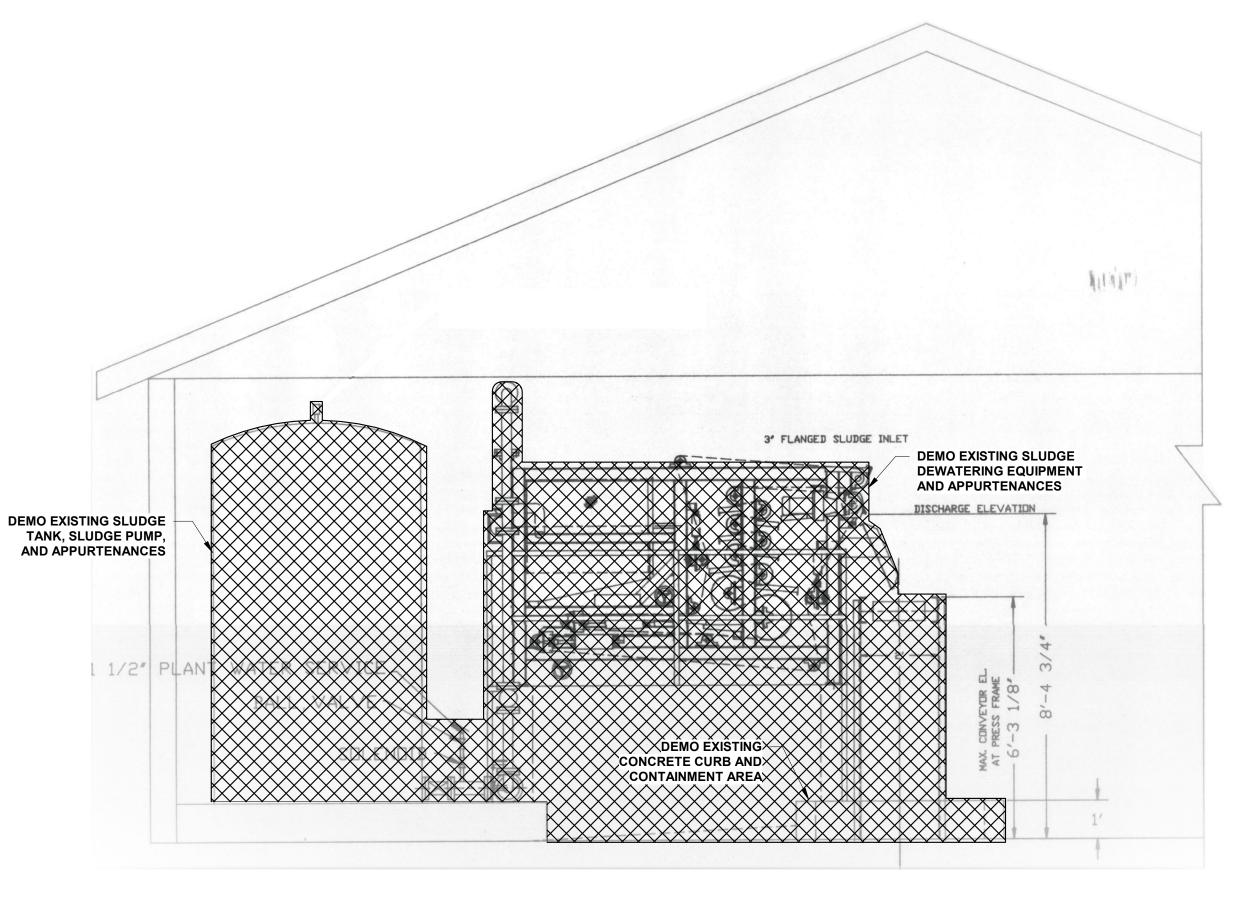
PROJECT NO.: 273-18-210



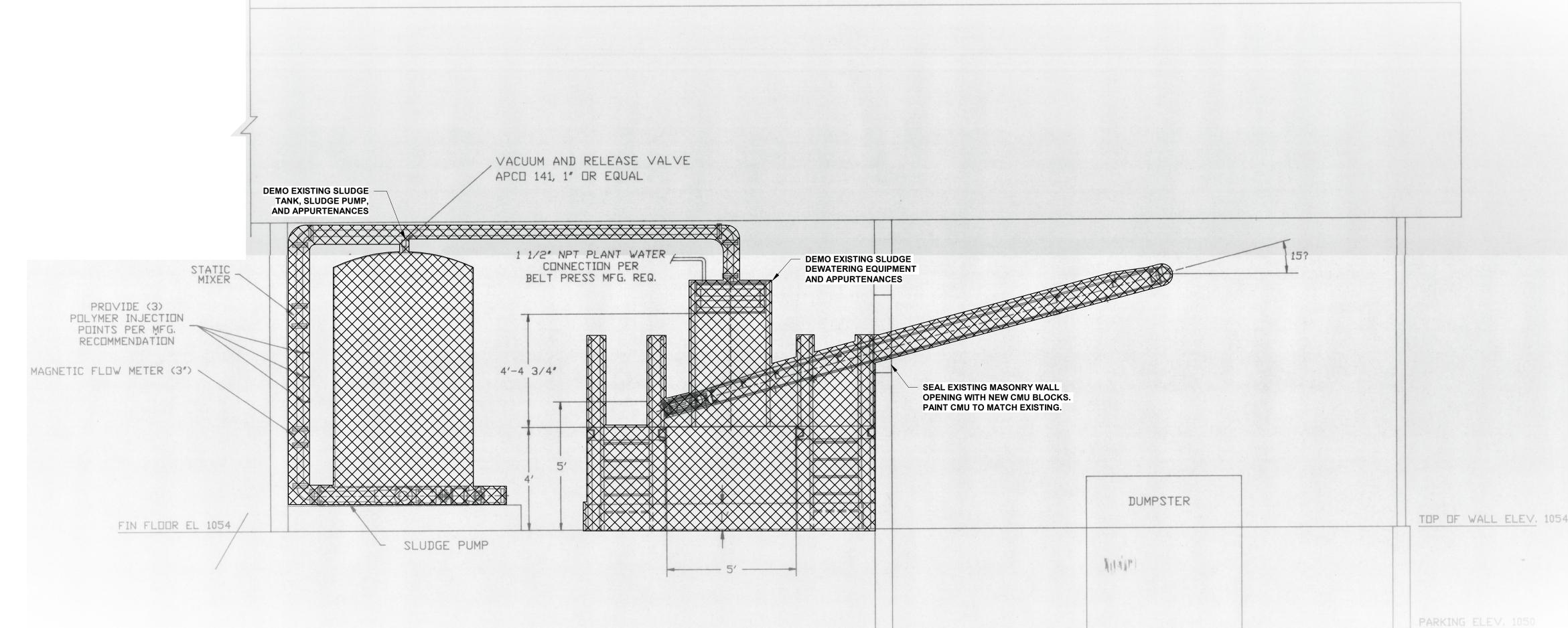
3091 GOVERNORS LAKE DRIVE NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

AS SHOWN IOTE: DRAWING SCALE BASED ON 24×36 SHEETS

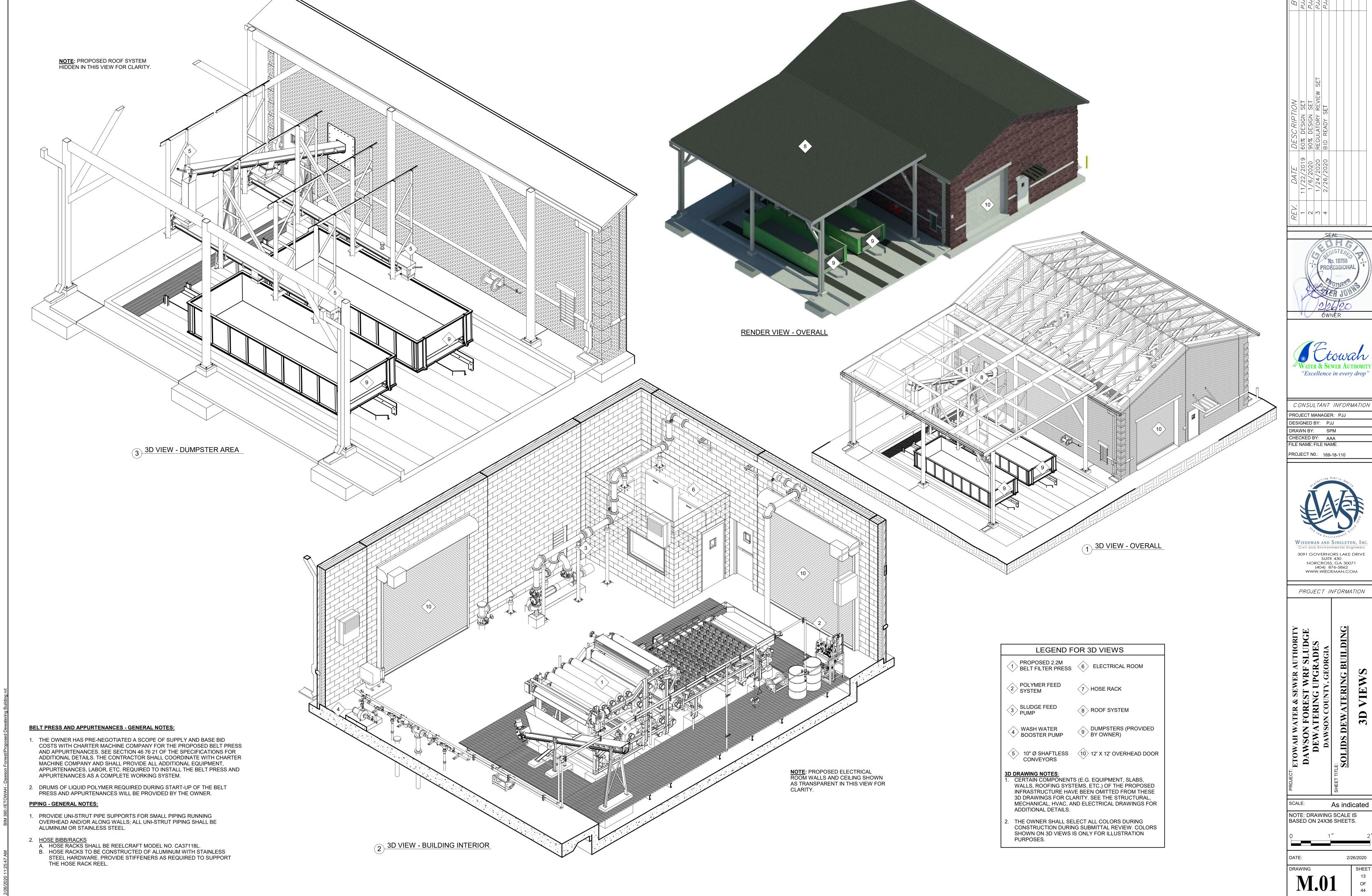


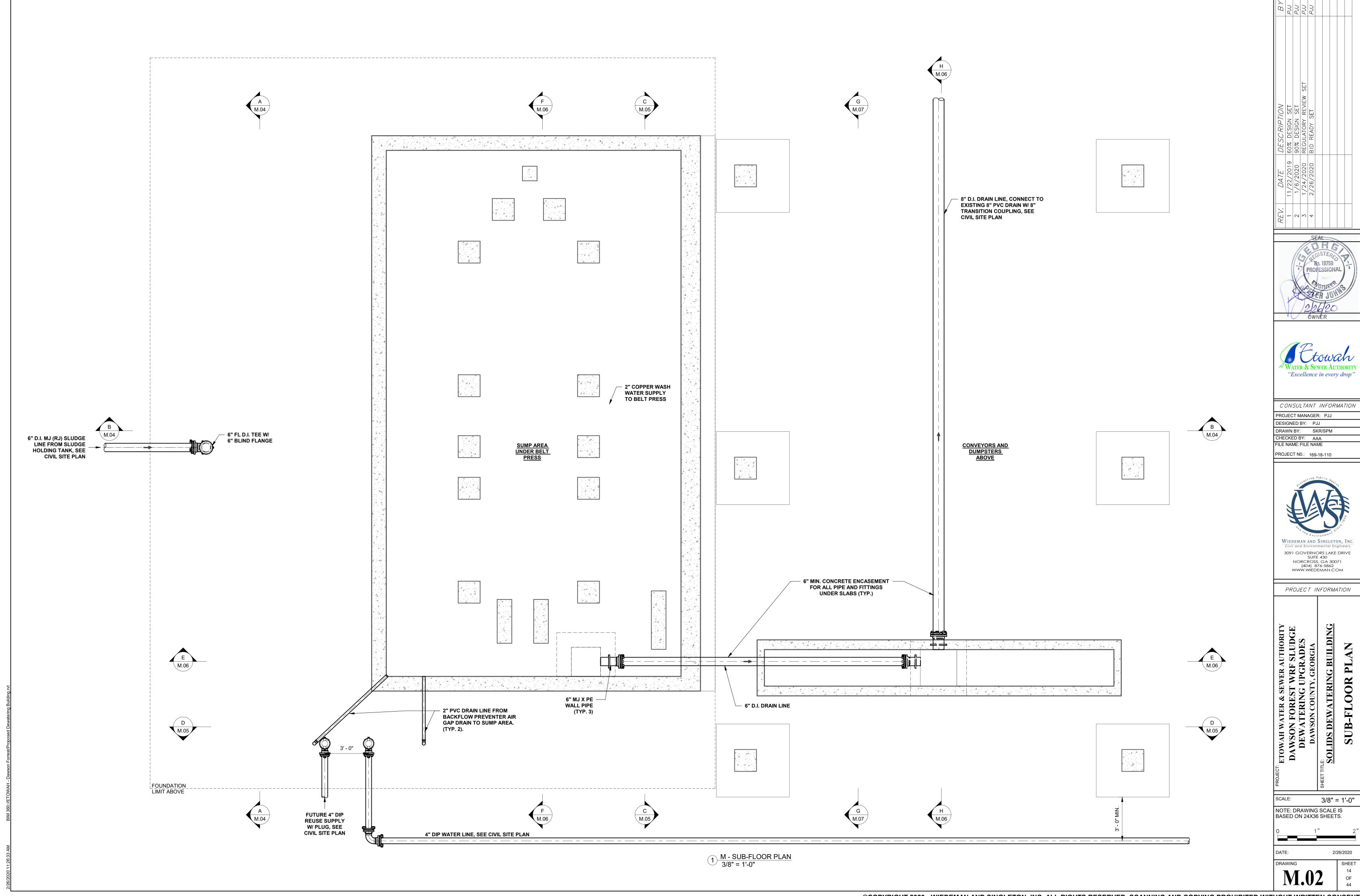
D - SECTION A N.T.S.

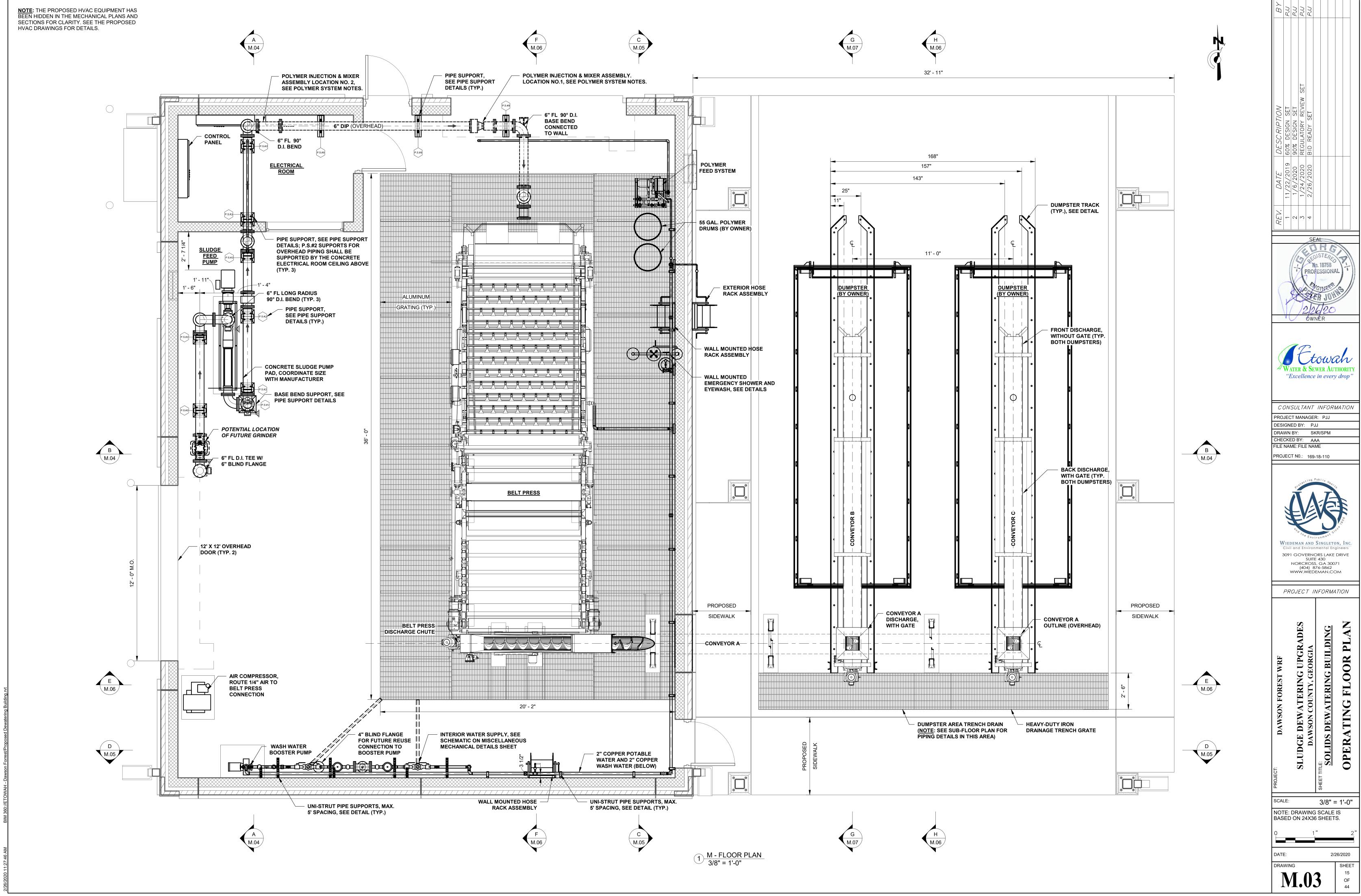


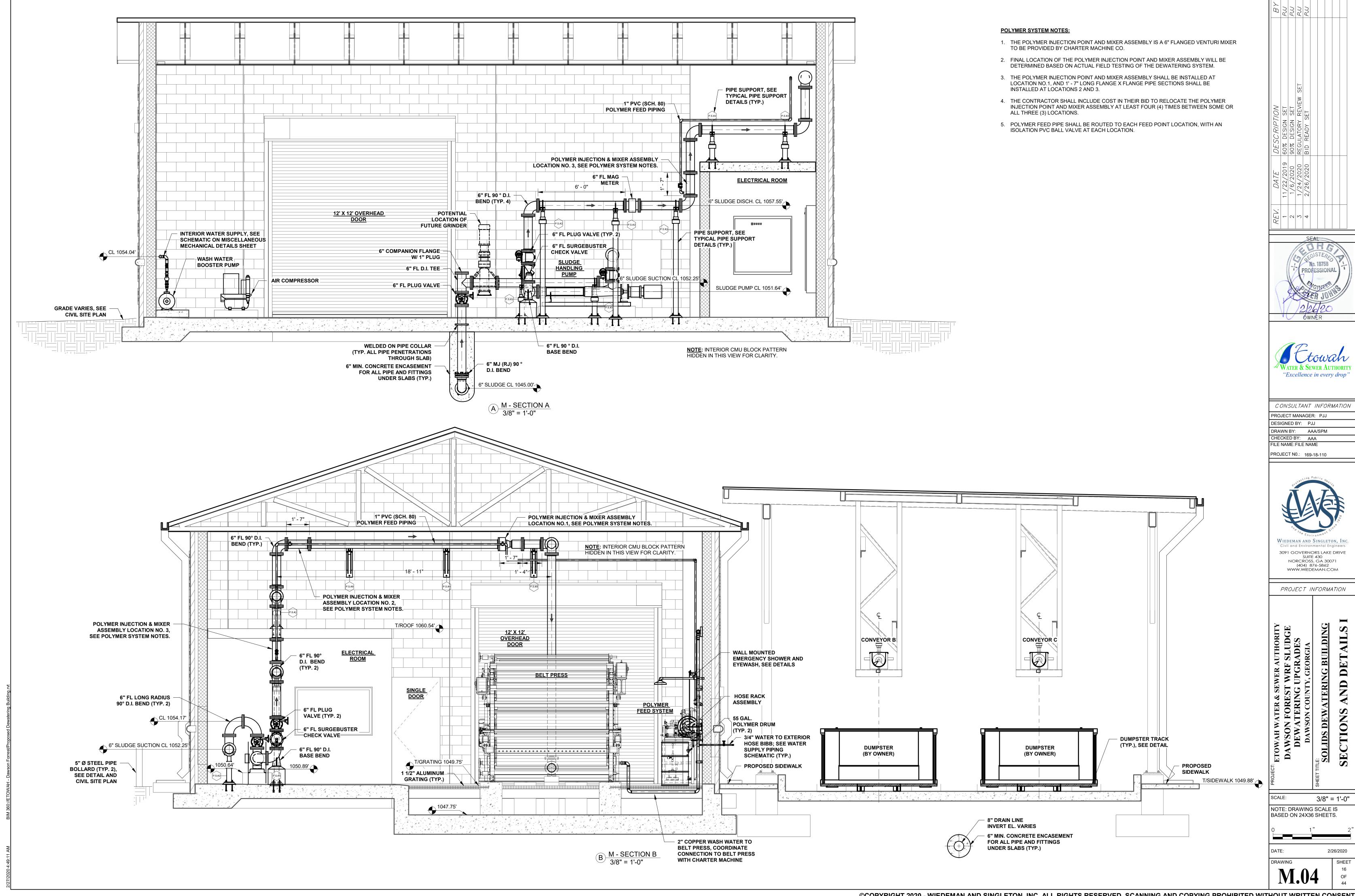


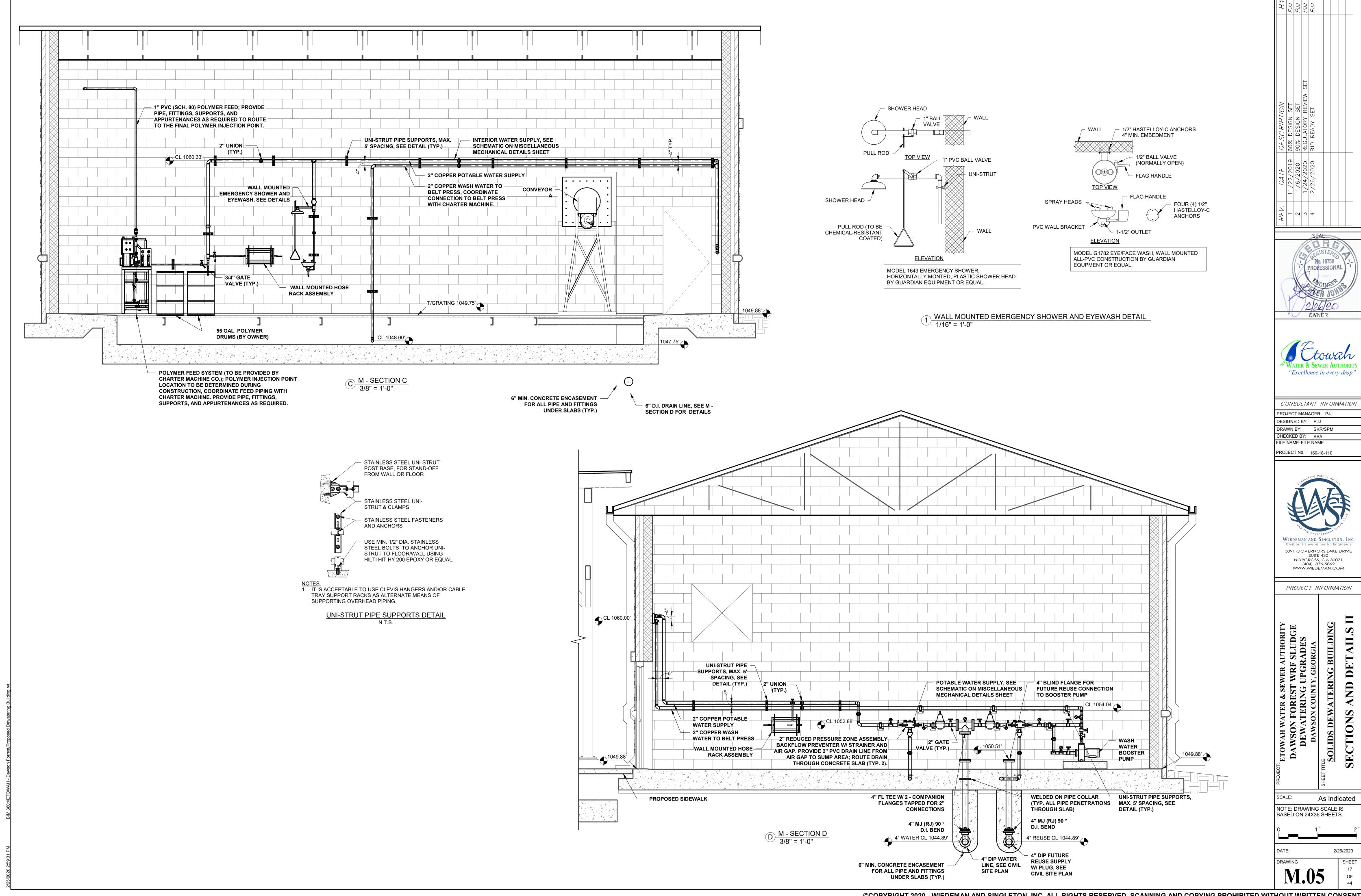
- . EXISTING ELECTRICAL, LIGHTING, AND HVAC EQUIPMENT AND APPURTENANCES NOT ASSOCIATED WITH THE SLUDGE DEWATERING EQUIPMENT TO REMAIN IN PLACE.
- 2. EXISTING AIR COMPRESSOR AND AIR COMPRESSOR EQUIPMENT PAD SHALL REMAIN IN PLACE.
- 3. SEE GENERAL NOTES FOR SCHEDULING RESTRICTIONS ASSOCIATED FOR WORK DETAILED.
- 4. THE CONTRACTOR SHALL EXERCISE FULL CARE AND SHALL USE SUCH METHODS AND EQUIPMENT DURING DEMOLITION AS WILL MAINTAIN THE USEFULNESS OF THE VARIOUS MATERIALS AND EQUIPMENT DEMOLISHED.
- 5. ANY DAMAGE DONE TO STRUCTURES OR EQUIPMENT DURING REMOVAL AND ANY PATCHING, PLUGGING OF HOLES, OR REPAIRS NECESSITATED BECAUSE OF REMOVAL OF EQUIPMENT AND PIPING SHALL BE REPAIRED AND THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT PRICE.
- 6. EQUIPMENT SPECIFIED TO BE DEMOLISHED SHALL BE REMOVED COMPLETELY, INCLUDING ALL RELATED ACCESSORIES AND CONCRETE BASES, UNLESS OTHERWISE NOTED. ANY EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, STEEL REINFORCEMENT, CONDUIT, AND PIPING SHALL BE CUT OFF 1 INCH BELOW ADJACENT FINISHED SURFACES. THE SURFACE SHALL THEN BE REPAIRED TO MATCH ADJACENT SURFACES IN FINISH AND APPEARANCE.
- 7. PRIOR TO REMOVING ANY ELECTRICAL OR SCADA EQUIPMENT, THE AUTHORITY STAFF WILL DISCONNECT ALL ELECTRICAL AND SCADA DETAILED TO BE REMOVED TO THE OUTSIDE OF EACH PANEL. THE CONTRACTOR SHALL NOT DISCONNECT OR REMOVE ANY ELECTRICAL OR SCADA EQUIPMENT PRIOR TO THE AUTHORITY'S DISCONNECTIONS. UNUSED CONDUITS SHALL BE REMOVED, INCLUDING UNUSED SUPPORTS, CLAMPS, TIES, SCREWS, ETC.
- 8. BLEMISHES OR UNSIGHTLY AREAS ON WALLS AND FLOORS LEFT AFTER REMOVAL OF EQUIPMENT SHALL BE CLEANED AND REFINISHED AND PAINTED AS NECESSARY TO MATCH ADJACENT SURFACES.
- ALL HOLES AND OPENINGS LEFT AFTER REMOVAL OF CONDUITS AND/OR EQUIPMENT SHALL BE FILLED OR PLUGGED TO PROVIDE A NEAT AND WORKMANLIKE APPEARANCE. CONCRETE OPENINGS SHALL BE FILLED WITH NON-SHRINK GROUT.
- 10. WHERE EQUIPMENT OR PIPING DESIGNATED FOR REMOVAL SERVES TO SUPPORT OTHER EQUIPMENT OR PIPING DESIGNATED TO REMAIN IN SERVICE, THE CONTRACTOR SHALL PROVIDE PERMANENT SUPPORTS IN PLACE OF THE REMOVED EQUIPMENT AND PIPING. WHERE IT IS NECESSARY TO TEMPORARILY REMOVE OTHER EQUIPMENT, PIPING, OR ELECTRICAL WORK IN ORDER TO GAIN ACCESS TO AN ITEM OF EQUIPMENT OR PIPING DESIGNATED FOR REMOVAL, THE CONTRACTOR SHALL RESTORE ALL SUCH EQUIPMENT, PIPING, OR ELECTRICAL WORK TO ITS ORIGINAL CONDITION. THE CONTRACTOR IS TO PROVIDE A SUBMITTAL TO THE ENGINEER FOR EACH PROPOSED PERMANENT
- 11. ALL REUSABLE MATERIALS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE CAREFULLY MOVED AND STORED WHERE DIRECTED BY THE OWNER. COORDINATE MATERIALS TO BE
- 12. THE CONTRACTOR WILL ASSUME OWNERSHIP OF AND LEGALLY DISPOSE OF ANY REMOVED EQUIPMENT, PIPING, AND MATERIALS WHICH CANNOT BE REUSED. ANY UNUSED EQUIPMENT, PIPING, AND MATERIALS SHALL BE REMOVED OFF SITE AT NO ADDITIONAL COST TO THE OWNER.
- 13. ALL PIPING REMOVED SHALL BE TERMINATED WITH SUITABLE CAPS OR PLUGS.

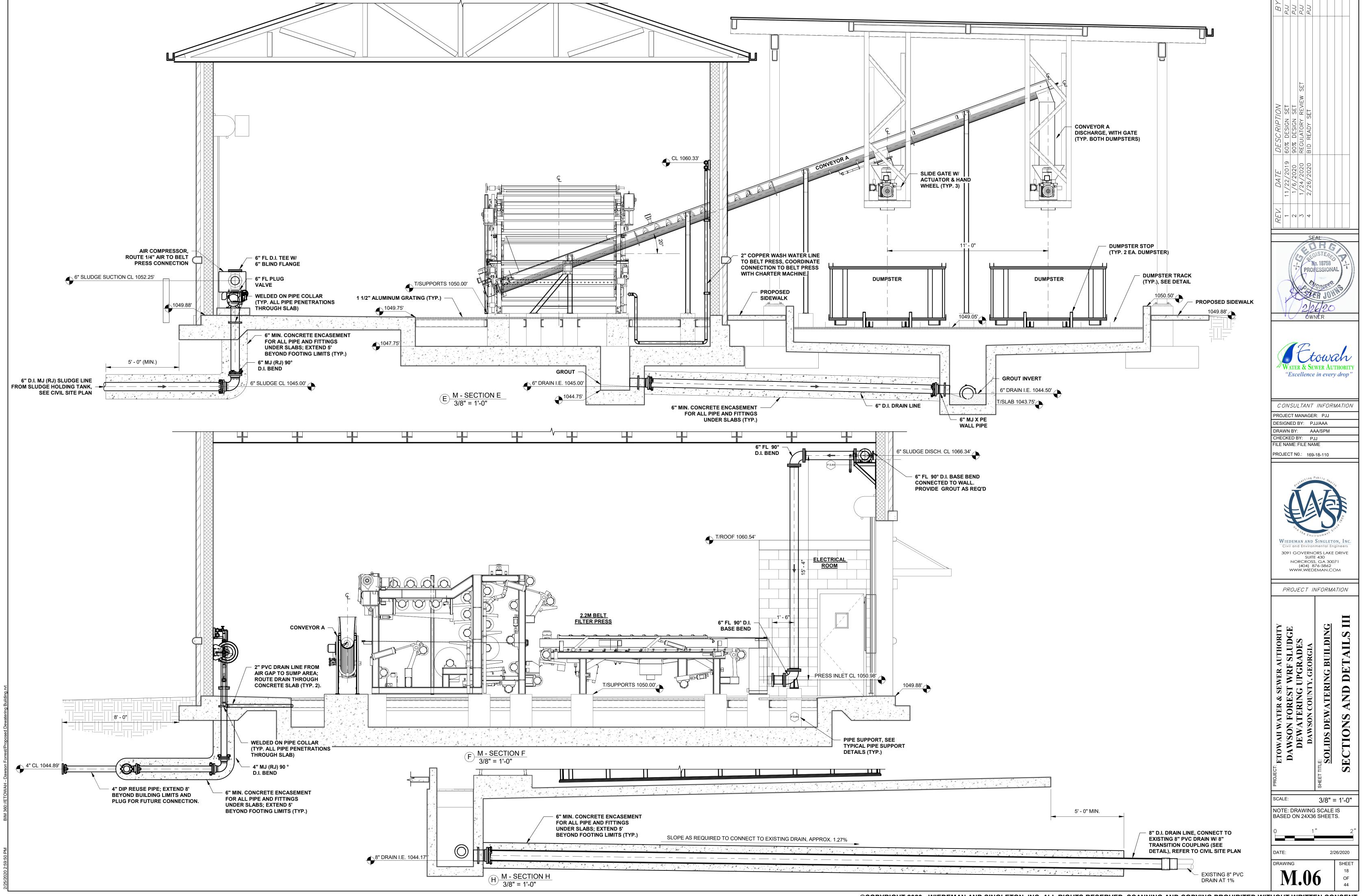


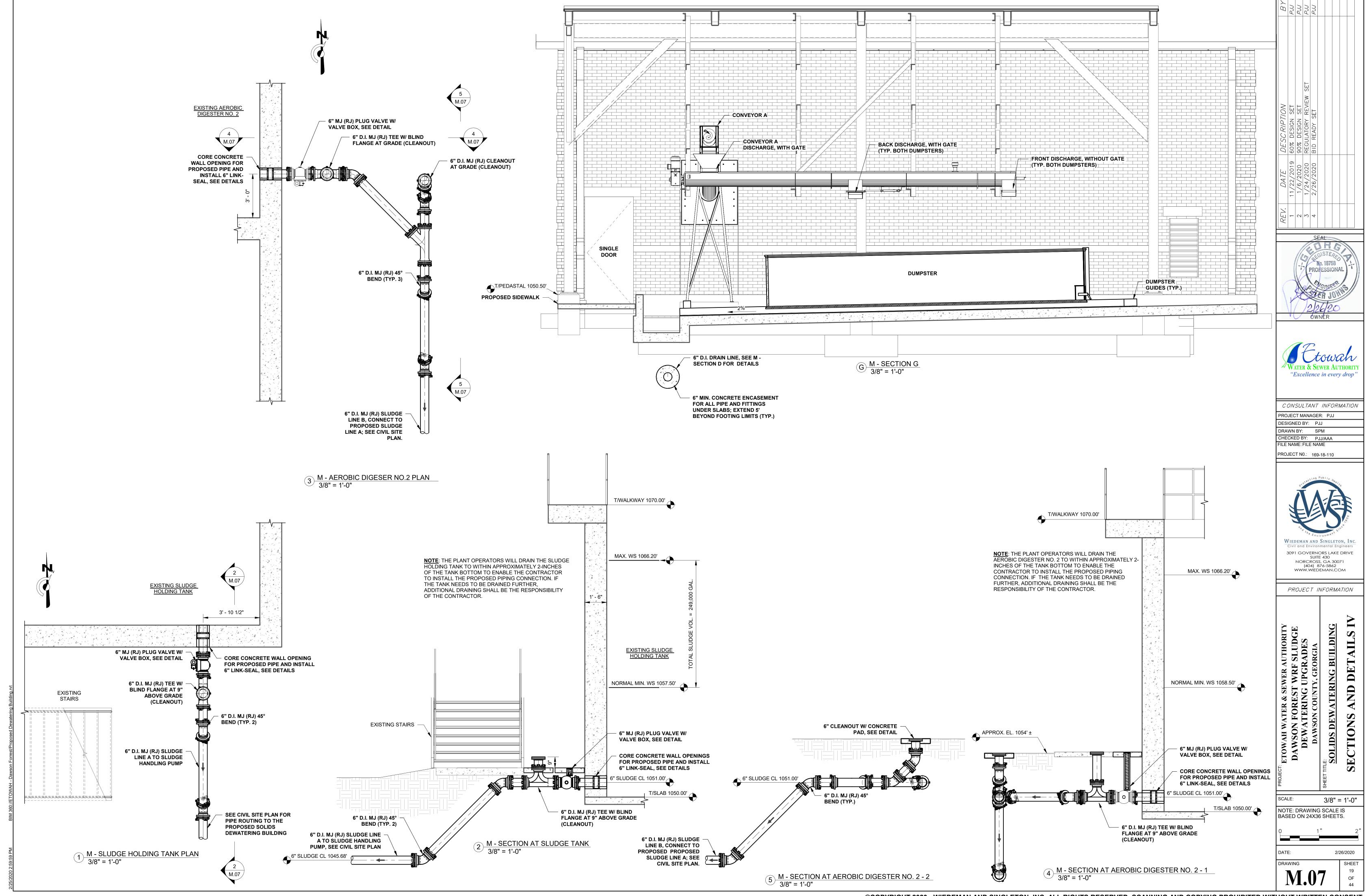


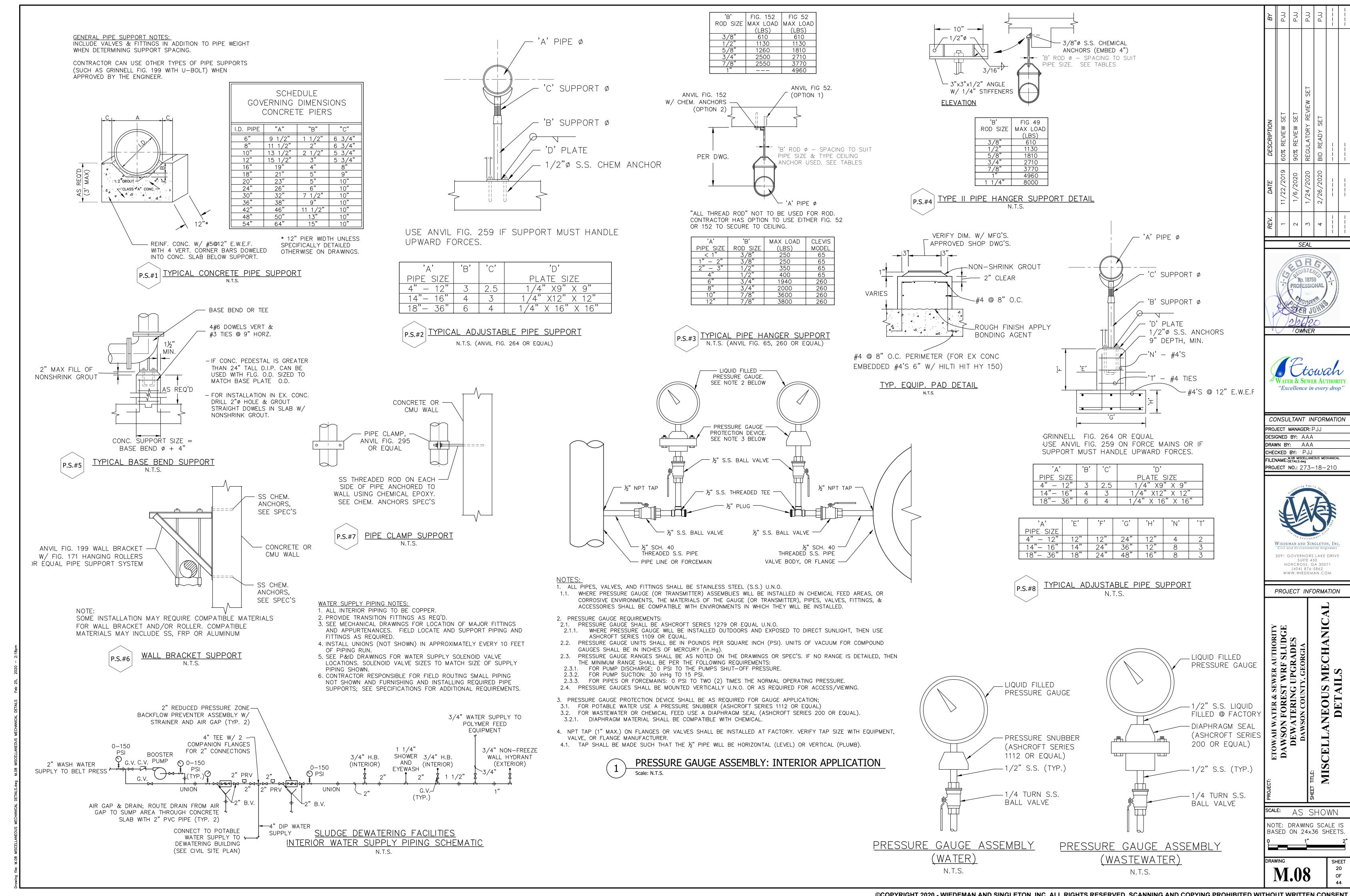












GENERAL:

- 1. ALL BUILDING DESIGN SHALL CONFORM TO GEORGIA STATE MINIMUM STANDARD CODE CITED IN THE OFFICIAL CODE OF GEORGIA ANNOTATED, CHAPTER 2, TITLE 8, SECTION 8-2-20(9)(B) AND DICTATED AS "THE 2012 STANDARD BUILDING CODE WITH AMENDMENTS" PER THE DEPARTMENT OF COMMUNITY AFFAIRS.
- 2. DESIGN AND LOADS.
- 2.A. ALL LOADS ARE PER ASCE 7—16, IBC 2018, AND VENDOR DOCUMENTS. SEE STRUCTURAL DRAWINGS FOR GEOMETRY OF STRUCTURES. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR EQUIPMENT LOCATIONS.
- 3. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES AGAINST HYDRAULIC UPLIFT.
- 4. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, OR SPECIFICATIONS FOR LOCATIONS AND DIMENSIONS OF ALL CHASES, CLOTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR BOLTS, FLOOR PITCHES, ANGLE FRAMES, SLUICE GATE FRAMES, SLIDE GATE FRAMES, ROLLER GATE FRAMES, AND ALL OTHER PROJECT REQUIREMENTS NOT INDICATED ON STRUCTURAL DRAWINGS.
- 5. CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PURCHASED EQUIPMENT AND PIPING.
- 6. INSTALL ALL ANCHOR BOLTS, NUTS, AND WASHERS INDICATED OR SPECIFIED, AND NON—SHRINK, NONMETALLIC GROUT, CONCRETE PADS AND REINFORCING STEEL REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT. REFER TO THE CONCRETE PEDESTAL STANDARD DETAILS.
- 7. VERIFY AND COORDINATE DIMENSIONS OF STRUCTURAL ELEMENTS WITH THE PURCHASED EQUIPMENT BEFORE SETTING REINFORCEMENT & EMBEDDING ITEMS, AND PLACING CONCRETE. ANCHOR BOLTS SHALL BE SIZED AND FURNISHED BY THE EQUIPMENT SUPPLIER UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 8. INSTALL WATERSTOPS IN CONSTRUCTION AND EXPANSION JOINTS BETWEEN DRY AREAS AND SOURCES OF LIQUID, INCLUDING THE GROUND. WATERSTOPS SHALL FORM A CONTINUOUS WATERTIGHT DIAPHRAGM TO PREVENT LEAKAGE.
- 9. TERMINATE VERTICAL WATERSTOPS THREE INCHES BELOW TOP OF CONCRETE WALLS IN OPEN TANKS AT THE UNDERSIDE OF ELEVATED FRAMED SLABS THAT ARE ABOVE MAXIMUM PROCESS LIQUID LEVELS AND ABOVE GRADE IN EXTERIOR FOUNDATION WALLS. WHERE MULTIPLE CONDITIONS EXIST SIMULTANEOUSLY, TERMINATE THE WATERSTOP AT THE CONDITION WITH MAXIMUM LENGTH.
- 10. DIMENSIONS AND ELEVATIONS INDICATED ON EXISTING STRUCTURES HAVE BEEN OBTAINED FROM DRAWINGS OR FIELD SURVEYS. VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH ARE REQUIRED FOR FABRICATION AND INSTALLATION OF ADDITIONS TO EXISTING STRUCTURES WITH FIELD MEASUREMENTS.
- 11. WHERE A SECTION NOTE OR DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY AT ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- 12. A MINIMUM OF EXCAVATION SHALL BE DONE TO INSTALL THE WORK SHOWN BY THE DRAWINGS. AT NO TIME SHALL THE UNBRACED SIDES OF AN EXCAVATION BE STEEP ENOUGH TO ENDANGER THE WORKMEN. NO EXCAVATION EMBANKMENT SHALL BE SLOPED AT AN ANGLE NO GREATER THAN 30° TO THE PLANE PERPENDICULAR TO PLUMB. THE CONTRACTOR SHALL PLAN HIS WORK TO AVOID ANY STANDING WATER IN EXCAVATIONS OR AGAINST WALLS.
- 13. THE STRUCTURAL SYSTEMS DEPICTED BY THESE DRAWINGS ARE STRUCTURALLY STABLE ONLY IN THEIR COMPLETED FORM. THEREFORE, THE CONTRACTOR MUST BRACE ALL WORK TO RESIST GRAVITY, EARTH, WIND, AND CONSTRUCTION LOADS DURING THE CONSTRUCTION PERIOD.
- 14. ALL TOPSOIL AND VEGETATION SHALL BE REMOVED FROM FILL AREA PRIOR TO INITIATION OF GRADING. AREAS TO RECEIVE FILL SHALL BE PROOF—ROLLED WITH A MINIMUM 10 TON LOADED TRUCK AND SOFT SPOTS SHALL BE UNDERCUT.
- 15. PROVIDE A MINIMUM OF 6" COMPACTED NO.57 CRUSHED STONE UNDER ALL STRUCTURAL SURFACES UNLESS NOTED OTHERWISE.
- 16. THE CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTAL FOR APPROVAL.

FOUNDATION:

- 1. FOUNDATION DESIGNS ARE BASED UPON THE GROSS ALLOWABLE SOIL—BEARING CAPACITY AS INDICATED IN THE GEOTECHNICAL REPORT PROVIDED IN THE SPECIFICATIONS.
- 2. PERCENT COMPACTION IS DEFINED AS THE RATIO OF THE FIELD DRY DENSITY, AS DETERMINED BY ASTM D-1556, TO THE MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM-01557, METHOD C, MULTIPLIED BY 100.
- 3. PERFORM ALL EARTH WORK, EXCAVATIONS, AND COMPACTION AS SPECIFIED UNDER SECTION 31 00 00
- 4. COMPACT ALL BACKFILL UNDER FOUNDATION MATS, BASE SLABS, FOOTINGS, AND SLABS ON GRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY MINIMUM. THE MOISTURE CONTENT OF THE FILL SOIL SHALL BE BETWEEN O AND 3 PERCENT OF OPTIMUM AS IT IS COMPACTED, UNLESS OTHERWISE INDICATED OR SPECIFIED.
 - 4.A. THE TOP 12-INCHES OF MATERIAL SUPPORTING PAVEMENT SHALL BE COMPACTED TO 100 PERCENT OF THE MAXIMUM DRY DENSITY.
 - 4.B. FILL PLACED FOR GENERAL SIDE GRADING SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY.
- 5. COMPACT ALL EMBANKMENTS TO 90 AT LEAST PERCENT OF THEIR MAXIMUM DRY DENSITY, UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 6. DO NOT BACKFILL AGAINST CONCRETE WALLS UNTIL LATERAL SUPPORT IS PROVIDED BY FLOOR OR ROOF SLABS THAT HAVE REACHED THEIR 28-DAY DESIGN STRENGTH. DO NOT BACKFILL AGAINST CANTILEVER WALLS UNTIL THE CONCRETE HAS REACHED ITS 28-DAY DESIGN STRENGTH.
- 7. PROVIDE FOUNDATION PREPARATION AS INDICATED OR SPECIFIED. REFER TO THE FOUNDATION PREPARATION STANDARD DETAILS.
- 8. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED. THE DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY OF THE SPECIFIC LOCATION AT THE PARTICULAR TIME THEY WERE MADE.
- 9. DO NOT PLACE FOUNDATION CONCRETE IN WATER OR ON FROZEN OR DISTURBED GROUND.
- 10. COMPACT THE BOTTOM SURFACE OF THE EXPOSED EXCAVATION WITH A VIBRATORY STEEL DRUM ROLLER TO ACHIEVE A NEAR SURFACE DENSITY OF AT LEAST 95 PERCENT.
- 11. CONFORM TO SPECIFIED REQUIREMENTS AND LIMITATIONS FOR ALL ROCK BLASTING.
- 12. THE CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF UNSUITABLE MATERIALS OFF-SITE.

DEWATERING:

- 1. A TEMPORARY DEWATERING SYSTEM SHALL BE INSTALLED AND UTILIZED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND SPECIFICATIONS SECTION 31 23 19.
- 2. DEWATER EXACAVATION(S) CONTINUOUSLY TO MAINTAIN GROUND WATER LEVEL AT LEAST TWO (2) FEET BELOW BOTTOM OF EXCAVATION OR TRENCH.
- 3. CONTROL DRAINAGE IN THE VICINITY OF EXCAVATION(S) SO THE GROUND SURFACE IS PROPERLY PITCHED TO PREVENT WATER FROM RUNNING INTO THE EXCAVATION(S).

STRUCTURAL FILL:

- 1. STRUCTURAL FILL IS DEFINED AS INORGANIC NATURAL SOILS WITH MAXIMUM PARTICLE SIZE OF 3—INCHES, AND PLASTICITY INDEX OF 30 OR LESS.
- 2. STRUCTURAL SHALL BE PLACED IN THIN LAYERS (8 TO 12 INCHES) AND COMPACTED TO AT LEAST 95% OF THE SOIL'S MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR (ASTM D698) COMPACTION TEST.
- 3. THE UPPER 12-INCHES OF PAVEMENT SUB-GRADE SHALL BE COMPACTED TO 98% OF THE SOIL'S MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR (ASTM D698) COMPACTION TEST.
- 4. SEE SPECIFICATIONS AND GEOTECHINCAL REPORT FOR ADDITIONAL REQUIREMENTS.
- 5. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO IMPORT SUITABLE STRUCTURAL FILL MATERIAL FROM OFF-SITE IF THE EXCAVATED SOILS AT THE SITE ARE DEEMED UNSUITABLE. INCLUDE ALL COSTS FOR ADDITIONAL IMPORT AND PLACEMENT OF FILL IN LUMP SUM BID.

CONCRETE:

- 1. CONFORM TO THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, LATEST EDITION AND TO THE ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES REPORT BY ACI COMMITTEE LATEST EDITION FOR CONCRETE WORK.
- 2. SEE SPEC SECTION 03 30 00 FOR CAST-IN-PLACE CONCRETE STRENGTH AND LOCATION. CONCRETE SHALL BE CLASS A WITH A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI. SEE SPEC FOR ADDITIONAL REQUIREMENTS.
- 3. SEE THE "STANDARD CONCRETE DETAILS" SHEET (SCD) FOR ALL STANDARD DETAILS FOR REINFORCED CONCRETE.
- 4. AIR-ENTRAIN ALL CONCRETE.
- 5. USE WELDED WIRE FABRIC CONFORMING TO ASTM A1064 OR A1064M. LAP SPLICE AT LEAST TWO FULL MESHES, AND STAGGER SPLICES IN EITHER DIRECTION.
- 6. REINFORCE CONCRETE FILL AND TOPPING SLABS THAT ARE TWO INCHES OR MORE THICK WITH WELDED WIRE FABRIC SIZED IN CONFORMANCE WITH STANDARD DETAIL. TYPICAL W.W.F. FOR CONCRETE FILL AND TOPPING SLABS UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 7. PROVIDE TYPE I (NON-CONTACT) SPLICE FOR ALL CONTINUOUS REINFORCEMENT UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 8. IN ELEVATED SLABS AND BEAMS, LAP CONTINUOUS BOTTOM REINFORCEMENT AT SUPPORTS AND CONTINUOUS TOP REINFORCEMENT AT THE CENTER OF A SPAN UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 9. IN FOUNDATION MATS AND BASE SLABS, LAP CONTINUOUS BOTTOM REINFORCEMENT AT THE CENTER OF A SPAN AND CONTINUOUS TOP REINFORCEMENT AT SUPPORTS, UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 10. PROVIDE REINFORCEMENT BAR SUPPORTS, SPACERS, AND ACCESSORIES RECOMMENDED IN ACI SP-66, ACI DETAILING MANUAL. PROVIDE ALL PLASTIC OR STAINLESS STEEL ACCESSORIES, SUCH AS SLAB BOLSTERS, AND BEAM AND SLAB SHARES IN CONTACT WITH EXPOSED SURFACE.
- 11. PROVIDE #5 HORIZONTAL BARS AT NO MORE THAN 12-INCH CENTERS ON EACH SIDE FOR CONCRETE BEAMS AND GIRDERS 30 INCHES AND DEEPER, UNLESS OTHERWISE NOTED.
- 12. THE MINIMUM CONCRETE COVER TO BE PROVIDED FOR CONCRETE REINFORCING SHALL BE IN ACCORDANCE WITH SECTION 7.7 "CONCRETE PROTECTION FOR REINFORCEMENT" IN THE ACI 318 LATEST EDITION CODE. SET AND MAINTAIN REINFORCEMENT CLEAR COVER FOR CAST—IN—PLACE CONCRETE, AS INDICATED IN THE SCD.
- 13. PROVIDE ADDITIONAL REINFORCEMENT ALONG EACH SIDE OF OPENINGS AS INDICATED IN THE SCD, UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 14. SET AND TIE ALL REINFORCEMENT BEFORE POURING CONCRETE. SETTING DOWELS OR PLACING REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.
- 15. SUBMIT ALL PROPOSED ADDITIONAL CONSTRUCTION AND EXPANSION JOINTS TO THE ENGINEER FOR THEIR WRITTEN APPROVAL. DO NOT OMIT ANY CONSTRUCTION OR EXPANSION JOINTS UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 16. CONTINUE ALL REINFORCING THROUGH CONSTRUCTION JOINTS AND PROVIDE DOWELS AS INDICATED IN THE SCD.
- 17. LOCATE CONSTRUCTION JOINTS IN ELEVATED SLABS NEAR THE MIDDLE OF THE SPANS OF SLABS AND BEAMS UNLESS OTHERWISE INDICATED OR SPECIFIED. IF A BEAM INTERSECTS A GIRDER AT THIS LOCATION, OFFSET THE CONSTRUCTION JOINT A DISTANCE EQUAL TO TWICE THE WIDTH OF THE BEAM AND PROVIDE INCLINED REINFORCEMENT IN CONFORMANCE WITH THE SCD.
- 18. PROVIDE CONSTRUCTION AND EXPANSION JOINTS IN CONCRETE FILL AND TOPPING SLABS AT THE SAME LOCATION AS THE CONSTRUCTION AND EXPANSION JOINTS IN THE SUPPORTING CONCRETE.
- 19. HORIZONTALLY ADJACENT FOUNDATION MATS, BASE SLABS, SLABS ON GRADE, WALLS, AND ELEVATED SLABS MAY BE CAST 24 HOURS MINIMUM AFTER THE ABUTTED SECTION HAS BEEN POURED.
 - 19.A.DO NOT POUR CONCRETE BEAMS, GIRDERS, OR ELEVATED SLABS UNTIL THE CONCRETE IN THE SUPPORTING COLUMNS OR WALLS HAS OBTAINED IT'S 28 DAY COMPRESSIVE STRENGTH.
 - 19.B. POUR ELEVATED SLABS AND BEAMS MONOLITHICALLY UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 20. PROVIDE 3/4—INCH CHAMFER ON ALL EXPOSED EDGES OF CONCRETE ELEMENTS, SUCH AS COLUMNS, PILASTERS, BEAMS, CURBS, AND EQUIPMENT PEDESTALS.
- 21. FINISH CONCRETE AS SPECIFIED IN SECTION 03 35 00. THE TOP OF ALL TANK WELLS, FLOORS, ROOFS, CONCRETE FILL, AND TOPPING SLABS MUST BE STEEL—TROWELED UNLESS OTHERWISE INDICATED OR SPECIFIED. EXTERIOR CONCRETE PLATFORMS, STAIRS, AND LOADING DOCKS MUST BE BROOM FINISHED.

- 22. FILL FLOOR POCKETS FOR GATE FRAMES WITH CONCRETE AFTER GATE INSTALLATION.
- 23. USE NON-SHRINK, NONMETALLIC GROUT, AS SPECIFIED IN SECTION 03 60 00 TO THICKNESS INDICATED OR SPECIFIED UNDER BASE PLATES AND BEARING PLATES.
- 24. FLOOR AND ROOF SLOPES ARE AN INTEGRAL PART OF STRUCTURAL SLABS. SEPARATE CONCRETE FILL OR TOPPING SLABS ARE NOT PERMITTED UNLESS OTHERWISE INDICATED OR SPECIFIED.
- 25. FURNISH ALL CONCRETE MASONRY UNIT (CMU) WALL REINFORCEMENT TO THE MASONRY SUBCONTRACTOR FOR HIS INSTALLATION. REINFORCEMENT SIZE, SPACING, LENGTH, AND LOCATION ARE INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SET ALL REINFORCEMENT BAR DOWELS TO BE EMBEDDED INTO CONCRETE ELEMENTS AT TOP AND BOTTOM OF CMU WALLS AS INDICATED.
- 26. MAINTAIN BEAM SOFFITS AT CONSTANT ELEVATION BELOW THE SLAB LOW POINT INDICATED. THE SCHEDULED BEAM DEPTH IS MEASURED FROM THE SLAB LOW—POINT. THE ACTUAL DEPTH VARIES WITH THE SLAB SURFACE SLOPES. BEAM TOP REINFORCEMENT SHALL BE LEVEL BENEATH THE SLAB LOW POINT
- 27. ALL CONCRETE STAIRS SPANNING 10'-0" OR MORE SHALL BE 9" THICK WITH #7 @ 6" E.W. BOTTOM WITH #4 NOSING BAR AND ALUMINUM STAIR NOSING. ALL CONCRETE STAIRS SPANNING LESS THAN 10'-0" SHALL BE 6" THICK WITH #5'S @ 6" E.W. BOTTOM WITH #4 NOSING BAR AND ALUMINUM STAIR NOSING.
- 28. STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 SPECIFICATION FOR DEFORMED AND PLAIN BILLETT—STEEL BARS FOR CONCRETE REINFORCEMENT, GRADE 60.
- 29. ALL REINFORCING BAR SPLICES AND LAPS SHALL CONFORM TO ACI 318 LATEST EDITION BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE, CLASS B, UNLESS NOTED OTHERWISE, REFER TO THE CORRESPONDING TABLE IN THE SCD. ALL REQUIREMENTS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH "THE CRSI MANUAL OF STANDARD PRACTICE", LATEST EDITION.

REINFORCING DETAILS:

- 1. THE MINIMUM REINFORCING FOR ALL CONCRETE WALLS AND SLABS SHALL BE AS SPECIFIED IN THE SCD. PROVIDE LARGER SIZES AND MORE REINFORCING IN ALL SECTIONS OF CONCRETE WHERE REQUIRED BY THE DETAILS ON THE DRAWINGS OR BY THE SPECIFICATIONS.
- 2. IN GENERAL, THE WALL CORNER REINFORCING SIZES AND SPACING SHALL BE CALLED OUT ON THE PLANS AND SHALL REFERENCE THE CORRESPONDING SCD DETAILS. THE TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER OR INTERSECTION HORIZONTAL REINFORCING.
- 3. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE 90° STANDARD HOOKS AS DEFINED IN THE LATEST EDITION OF ACI 318.
- 4. ALL WALL CORNER AND WALL INTERSECTION REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED ON THE SCD.
- 5. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS. FURTHERMORE, VERTICAL WALL BARS SHALL EXTEND INTO THE TOP FACE OF FLOOR OR ROOF SLABS AND SHALL BE LAPPED WITH TOP SLAB REINFORCEMENT. PROVIDE A MINIMUM OF TWO FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS, AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING STEEL SHOWN OR AS REQUIRED BY THE SCD.
- 6. UNLESS INDICATED OTHERWISE, CONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS.
- 7. ALL REINFORCEMENT BENDS AND LAPS SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS, UNLESS OTHERWISE NOTED:
 - 7.A. TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR, OR IN SLABS LESS THAN 12" THICK WITH LESS THAN 1 MAT OF STEEL. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
 - 7.B. CONTINUOUS WATERSTOPS, AS SPECIFIED, SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN WALLS AND SLABS OF WATER HOLDING BASINS AND CHANNELS.
 - 7.C. FOR EPOXY COATED BARS, INCREASE LAP LENGTHS SHOWN ON SCD FOR TOP BARS BY 30% AND LAP LENGTHS FOR BOTTOM BARS BY 50%.
 - 7.D. PLACE HORIZONTAL WALL REINFORCING WITHIN 3" OF ALL CONSTRUCTION JOINTS AND WITHIN 3" OF TOP OF ALL WALLS.
 - 7.E. PLACE REINFORCING WITHIN 3" OF ALL EXPANSION JOINTS, ENDS OF WALLS, SLABS, AND EDGES OF OPENINGS.

CONCRETE ANCHORS:

- 1. CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM E488 "STANDARD TEST METHODS FOR STRENGTH OF ANCHORS IN CONCRETE AND MASONRY ELEMENTS FOR CAST—IN—PLACE OR POST—INSTALLED ANCHORS".
- 2. ANCHORS SHALL BE INSTALLED TO DEVELOP THE MAXIMUM CAPACITY FOR THE EMBEDMENT, TYPE, AND ANCHOR SIZE WITH A MINIMUM SAFETY FACTOR OF THREE AND A HALF $(3\frac{1}{2})$.
- 3. ANCHOR BOLTS OR ANCHOR RODS SHALL BE PLACED IN FORMS PRIOR TO POURING CONCRETE UNLESS OTHERWISE SHOWN OR DETAILED ON THE CONTRACT DRAWINGS.
- 4. INSTALLATION OF POST—INSTALLED ANCHORS TO CONFORM TO MANUFACTURER'S CURRENT PRINTED INSTRUCTIONS.
- 6. WEDGE TYPE ANCHORS ARE NOT PERMITTED FOR STRUCTURAL USE.
- 7. ALL ANCHORS SHALL HAVE STANDARD UNC THREADS.
- 8. ALL POST-INSTALLED ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF SPECIFICATIONS SECTION 05 05 19.
- 9. ALL ANCHOR BOLTS FOR NON-STRUCTURAL STEEL (E.G. ALUMINUM, FIBERGLASS, PLASTIC, ETC) SHALL BE TYPE F593 STAINLESS STEEL UNLESS OTHERWISE INDICATED OR SPECIFIED. PROVIDE EACH ANCHOR WITH TYPE F594 STAINLESS STEEL NUT AND WASHER, UNLESS NOTED OTHERWISE.

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
---- ---- -----



OWNER



CONSULTANT INFORMATION

PROJECT MANAGER: PJJ
DESIGNED BY: PJJ
DRAWN BY: SKR/SPM

CHECKED BY: AAA

FILENAME: S.01 & S.02 STRUCTURAL NOTES.dwg

PROJECT NO.: 273-18-210



3091 GOVERNORS LAKE DRIVE

SUITE 430 NORCROSS, GA 30071

(404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

WATER & SEWER AUTHORITY
IN FOREST WRF SLUDGE
'ATERING UPGRADES
VSON COUNTY, GEORGIA

ICTURAL NOTES - 1

₩ • N.T.S.

NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS. 11x17 IS 212%± OF SCALE SHOWN.

S.01

©COPYRIGHT 2018 - WIEDEMAN AND SINGLETON. INC. ALL RIGHTS RESERVED. SCANNING AND COPYING PROHIBITED WITHOUT WRITTEN CONSENT.

GENERAL MASONRY NOTES:

- 1. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (CMU) IS 2500 PSI, MINIMUM.
- 2. FURNISH ALL CMU WALL REINFORCEMENT TO THE MASONRY SUBCONTRACTOR FOR HIS INSTALLATION. REINFORCEMENT SIZE SPACING, LENGTH AND LOCATION INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. PROVIDE AND SET ALL REINFORCING BAR DOWELS TO BE EMBEDDED INTO CONCRETE ELEMENTS AT TOP AND BOTTOM OF CMU WALLS AS INDICATED OR SPECIFIED.
- 3. CONCRETE BLOCKS SHALL BE HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90, NORMAL WEIGHT, GRADE N-II AND SHALL HAVE A MINIMUM I'm OF 1900 PSI AT 28 DAYS. ALL BLOCKS SHALL HAVE TWO CORE CELLS (MAX.)
- 4. MORTAR SHALL BE PORTLAND CEMENT/ LIME TYPE S. MORTAR SHALL NOT BE AIR ENTRAINED. MORTAR SHALL CONFORM TO ASTM C270.
- 5. GROUT FILL SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND SHALL HAVE A MINIMUM f'_{α} OF 3000 PSI AT AGE 28 DAYS. GROUT FILL SHALL HAVE A SLUMP OF 8" TO 10" AT TIME OF PLACEMENT.
- 6. GROUT FILL SHALL BE TESTED IN ACCORDANCE WITH ASTM C1019. EACH BATCH OF GROUT SHALL BE
- 7. THREE TEST PRISMS SHALL BE MADE FOR EVERY 5000 SQ. FT. OF WALL AREA DURING CONSTRUCTION AND TESTED IN ACCORDANCE WITH ASTM C1314. THE MINIMUM REQUIRED PRISM STRENGTH (f'm) IS 1500 PSI. PRISMS SHALL BE FIELD CURED.
- 8. BED JOINTS SHALL BE FULLY MORTARED. HEAD JOINTS OF LINTELS AND BEAMS SHALL BE PACKED SOLID WITH MORTAR. HEAD JOINTS SHALL BE CONSIDERED FULLY MORTARED WHEN MORTAR JOINT IS A MINIMUM THICKNESS OF MASONRY FACE SHELL.
- 9. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.

10. GROUT FILL AT VERTICAL REINFORCING.

- 10.A. PROVIDE CLEAN-OUT HOLES AT THE BOTTOM OF THE CELLS TO BE GROUTED.
- 10.B. MARK CELLS WITH DOWELS TO ASSURE THAT VERTICAL REINFORCING IS PLACED IN SAME CELL AS
- 10.C. PLACE REINFORCING PRIOR TO GROUTING.
- 10.D. POUR GROUT INTO CELL A MAXIMUM HEIGHT OF 5'-0".
- 10.E. CONSOLIDATE GROUT BY VIBRATING 1 TO 2 SECONDS USING A LOW VELOCITY VIBRATOR WITH A 3/4" HEAD. DO NOT CONSOLIDATE BY RODDING WITH REINFORCING BARS.
- 10.F. AFTER INITIAL WATER LOSS, RE-CONSOLIDATE GROUT WITH LOW VELOCITY VIBRATOR. 10.G. REPEAT STEPS D THROUGH F AS REQUIRED TO FILL CELLS FULL HEIGHT OF THE GROUT POUR
- PLUS SPLICE LENGTH. 10.H. THE TOP OF A GROUT POUR SHALL NOT BE LOCATED AT THE TOP OF A UNIT BUT WITHIN 1 1/2"
- 11. LINTELS SHALL BE SHORED UNTIL THE GROUT FILL HAS ATTAINED ITS FULL 28 DAYS STRENGTH.
- 12. SHOP DRAWINGS FOR REINFORCING ARE REQUIRED. WALL REINFORCING SHALL BE SHOWN IN ELEVATION.
- 13. WALLS SHALL BE PROVIDED WITH TRUSS OR LADDER TYPE JOINT REINFORCING AT 16" O.C. SIDE AND CROSS RODS SHALL BE W1.7.
- 14. PROVIDE CONTROL JOINTS IN EXTERIOR MASONRY WALLS AT 24'-8" MAXIMUM.
- 15. DO NOT PROVIDE CONTROL JOINTS IN INTERIOR MASONRY WALLS.
- 16. PROVIDE CONTROL JOINTS BETWEEN EXTERIOR AND INTERIOR WALLS.
- 17. PROVIDE REINFORCING IN MASONRY WALLS AS SHOWN BY THE STRUCTURAL DRAWINGS. WHERE NO REINFORCEMENT IS SHOWN. USE MINIMUM VERTICAL REINFORCEMENT SHALL BE #5'S @ 32".
- 18. REINFORCING BARS SHALL BE HELD IN POSITIONS SHOWN BY THE DRAWING.

REINFORCING UNIT MASONRY:

- 1. POSITION REINFORCEMENT ACCURATELY AT THE SPACING INDICATED. SUPPORT AND SECURE VERTICAL BARS AGAINST DISPLACEMENT. HORIZONTAL REINFORCEMENT MAY BE PLACED AS THE MASONRY WORK PROGRESSES. WHERE VERTICAL BARS ARE SHOWN IN CLOSE PROXIMITY, PROVIDE A CLEAR DISTANCE BETWEEN BARS OF NOT LESS THAN THE NOMINAL BAR DIAMETER OR 1" (WHICHEVER IS GREATER).
- 2. PROVIDE NOT LESS THAN MINIMUM LAP INDICATED AND AS REQUIRED BY GOVERNING CODE.
- 3. MAINTAIN VERTICAL CONTINUITY OF CORE OR CELL CAVITIES WHICH ARE TO BE REINFORCED AND GROUTED, TO PROVIDE MINIMUM CLEAR DIMENSION INDICATED AND TO PROVIDE MINIMUM CLEARANCE AND GROUT COVERAGE FOR VERTICAL REINFORCEMENT BARS. KEEP CAVITIES FREE OF MORTAR.
- 4. WHERE HORIZONTAL REINFORCED BEAMS (BOND BEAMS OR LINTELS) ARE SHOWN, USE LINTEL UNITS OR MODIFY REGULAR UNITS TO ALLOW FOR PLACEMENT OF CONTINUOUS HORIZONTAL REINFORCEMENT BARS. PLACE SMALL MESH EXPANDED METAL LATH OR WIRE SCREENING IN MORTAR JOINTS UNDER METAL BOND BEAM COURSES OVER CORES OR CELLS OF NON-REINFORCED VERTICAL CELLS, OR PROVIDE UNITS WITH SOLID BOTTOMS.
- 5. DO NOT PLACE GROUT UNTIL ENTIRE HEIGHT OF MASONRY TO BE GROUTED HAS ATTAINED SUFFICIENT STRENGTH TO RESIST DISPLACEMENT OF MASONRY UNITS AND BREAKING OF MORTAR BOND. INSTALL SHORES AND BRACING BEFORE STARTING GROUTING OPERATIONS.
- 6. LIMIT GROUT POURS TO SECTIONS WHICH CAN BE COMPLETED IN ONE WORKING DAY WITH NOT MORE THAN ONE HOUR INTERRUPTION OF POURING OPERATION. PLACE GROUT IN LIFTS WHICH DO NOT EXCEED 5 FEET. ALLOW NOT LESS THAN 30 MINUTES. NOR MORE THAN ONE HOUR BETWEEN LIFTS OF A GIVEN POUR. VIBRATE WALLS DURING ALL POURING OPERATIONS.
- 7. WHEN MORE THAN ONE POUR IS REQUIRED TO COMPLETE A GIVEN SECTION OF MASONRY, EXTEND REINFORCEMENT BEYOND MASONRY AS REQUIRED FOR PLACING. POUR GROUT TO WITHIN 1-1/2" OF TOP COURSE OF FIRST POUR. AFTER GROUTED MASONRY IS CURED, LAY MASONRY UNITS AND PLACE REINFORCEMENT FOR SECOND POUR SECTION BEFORE GROUTING. REPEAT SEQUENCE IF MORE POURS ARE REQUIRED.
- 8. GROUT FOR UNIT MASONRY SHALL COMPLY WITH ASTM C476. USE GROUT OF CONSISTENCY AT TIME OF PLACEMENT WHICH WILL COMPLETELY FILL ALL SPACES INTENDED TO RECEIVE GROUT.

CONCRETE BONDING AGENT:

1. LIGHTLY BRUSH-HAMMER THE SURFACE OF EXISTING FORMED CONCRETE TO EXPOSE A FRESH CLEAN SURFACE.

- 2. CLEAN THE SURFACE OF EXISTING CONCRETE OF ALL LOOSE AND FRACTURED MATERIAL
- 3. COAT SURFACE OF EXISTING CONCRETE TO BE JOINED TO NEW CONCRETE WITH A BONDING AGENT.
- 4. PROTECT SURFACES TO RECEIVE A BONDING AGENT FROM MATERIAL WHICH WOULD REDUCE ITS EFFECTIVENESS.
- 5. STORE AND APPLY THE BONDING AGENT ACCORDING TO THE MANUFACTURER'S PRINTED
- 6. PLACE NEW CONCRETE AGAINST THE BONDING AGENT WITHIN THE TIME LIMIT SPECIFIED AS ITS WORKING LIFE.
- 7. BONDING MATERIAL SHALL BE WELD-CRETE AS MANUFACTURED BY LARSEN PRODUCTS CORPORATION OF ROCKVILLE, MARYLAND, OR APPROVED EQUAL.

STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO SPEC SECTION 05 12 00.
- 2. WELDING TO CONFORM TO THE STRUCTURAL WELDING CODE, AWS D1.1.
- 3. USE E70XX EPOXY WELDING ELECTRODES.
- 4. FIELD WELDING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS SPECIFICALLY INDICATED.
- 5. FIELD AND SHOP CONNECTIONS SHALL BE BOLTED UNLESS WELDING IS INDICATED.
- 6. PROVIDE 3/4" DIAMETER ASTM A325N HIGH STRENGTH BOLTS FOR BOLTED CONNECTIONS. PROVIDE 13/16" DIAMETER HOLES UNLESS OTHERWISE INDICATED. PROVIDE ONE HARDENED WASHER UNDER THE ELEMENT TURNED IN TIGHTENING. PROVIDE PLATE WASHERS IN BOTH OUTER PLIES WHEN OVERSIZED OR SLOTTED HOLES ARE INDICATED.
- 7. TIGHTEN HIGH STRENGTH BOLTS FOR SLIP-CRITICAL JOINTS OR CONNECTIONS SUBJECTED TO DIRECT TENSION IN CONFORMANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A490 BOLTS. TENSION CONTROL BOLTING MAY NOT BE SUBSTITUTED FOR CALIBRATED WRENCH BOLTING WHEN USING HOT-DIP GALVANIZED BOLTS.
- 8. SIMPLY SUPPORTED BEAM-TO-COLUMN AND BEAM-TO-BEAM CONNECTIONS SHALL BE MADE WITH DOUBLE ANGLES IN CONFORMANCE WITH THE AISC MANUAL, TABLE 10-1, USING A SINGLE ROW OF THE MAXIMUM NUMBER OF BOLTS ALLOWED FOR THE CORRESPONDING STRUCTURAL SHAPE, UNLESS OTHERWISE INDICATED.
- 9. FURNISH AND INSTALL ONE WASHER AND ONE HEAVY HEX NUT WITH ASTM A36 ANCHOR BOLTS UNLESS OTHERWISE INDICATED.
- 10. DETAIL BRACING MEMBERS TO AVOID ECCENTRIC CONNECTIONS AND FOR DRAWING THE BRACING MEMBER TOGETHER.
- 11. PROVIDE TEMPORARY BRACING AND STAYS DURING STEEL ERECTION TO RESIST VERTICAL AND LATERAL LOADS UNTIL MEMBERS ARE PERMANENTLY FASTENED AND FLOORS AND ROOFS COMPLETED.
- 12. PROVIDE 1/16" MINIMUM CONTINUOUS FILLET SEAL WELDS FOR ALL WELDED CONNECTIONS TO MEMBERS HAVING TYPE S OR TYPE E SERVICE AND TO ALL WELDED CONNECTIONS THAT WILL BE GALVANIZED. DO NOT GALVANIZE SECTIONS THAT WILL BE WELDED UNTIL AFTER ALL WELDING IS COMPLETE.
- 13. APPLY 1/8" THICK TROWEL GRADE BITUMINOUS MASTIC DAMP-PROOFING TO STEELWORK TO BE ENCASED IN EXTERIOR MASONRY WALLS UNLESS DIRECT CONTACT SPRAY-ON OR TROWEL-ON FIREPROOFING IS INDICATED OR SPECIFIED
- 14. PROVIDE 3/16" X 1" LONG FILLET WELD FOR ELECTRICAL CONTINUITY BETWEEN MEMBERS AT CONNECTIONS.
- 15. SHEAR STUDS TO CONFORM TO ASTM A108. INSTALL IN ACCORDANCE WITH AWS D1.1.
- 16. PROVIDE 13/16" DIAMETER DRAIN HOLES THROUGH MEMBERS AT LOW POINTS OR AS INDICATED TO PREVENT ACCUMULATION OF WATER.
- 17. USE NON-SHRINK, NON-METALLIC GROUT AS INDICATED AND SPECIFIED UNDER BASE AND BEARING PLATES.

ALUMINUM:

- 1. STRUCTURAL ALUMINUM SHALL BE ALLOY 6061-T6. DETAIL AND FABRICATED IN CONFORMANCE WITH THE LATEST ASCE SPECIFICATIONS FOR ALUMINUM STRUCTURES.
- 2. FIELD WELDING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS SPECIFICALLY INDICATED.
- 3. SHOP CONNECTIONS MAY BE BOLTED OR WELDED UNLESS THE CONNECTION METHOD IS INDICATED.
- 4. PROVIDE 3/4" DIAMETER TYPE 304 OR 316 STAINLESS STEEL BOLTS FOR BOLTED CONNECTIONS. PROVIDE 13/16" DIAMETER HOLES UNLESS OTHERWISE INDICATED. PROVIDE PLATE WASHERS IN BOTH OUTER PLIES WHEN OVERSIZE OR SLOTTED HOLES ARE INDICATED.
- 5. SIMPLY SUPPORTED BEAM-TO-COLUMN AND BEAM-TO-BEAM CONNECTIONS SHALL BE MADE WITH DOUBLE ANGLES SIMILAR TO THOSE DESCRIBED FOR STRUCTURAL STEEL SECTIONS IN NOTE #8 OF THE PREVIOUS SECTION.
- 6. DETAIL BRACING MEMBERS TO AVOID ECCENTRIC CONNECTIONS AND FOR PULLING THE BRACING MEMBERS TOGETHER.
- 7. PROVIDE TEMPORARY BRACING AND STAYS DURING STEEL ERECTION TO RESIST VERTICAL AND LATERAL LOADS UNTIL MEMBERS ARE PERMANENTLY FASTENED AND FLOORS AND ROOFS ARE COMPLETED.
- 8. PAINT ALUMINUM IN CONTACT WITH CONCRETE WITH BITUMINOUS MASTIC OR ASPHALTIC PAINT IN CONFORMANCE WITH SPECIFICATIONS SECTION 09 90 00.
- 9. PROVIDE DISSIMILAR METAL PROTECTION AT BOLT LOCATIONS AND OTHER LOCATIONS WHERE DISSIMILAR METALS ARE IN CONTACT. PROTECT WITH A MINIMUM 4-MIL DRY THICKNESS COAT OF ZINC CHROMATE PRIMER ON THE ALUMINUM SURFACES AND A MINIMUM 2-MIL DRY THICKNESS COAT OF ALL-METAL PRIMER FOLLOWED BY ONE COAT IF MINIMUM 3-MIL DRY THICKNESS ALUMINUM PAINT TO THE DISSIMILAR METAL.
- 10. USE NON-SHRINK, NON-METALLIC GROUT AS INDICATED AND SPECIFIED UNDER BASEPLATES AND BEARING PLATES.

1. LIVE LOADS 1.A. ROOF LIVE LOADS = 50 PSF 1.B. FLOOR LIVE LOAD = 100 PSF 1.C. FOR STAIRS AND PLATFORM = 100 PSF 2. GROUND SNOW LOAD $P_a = 5$ PSF 3. WIND LOAD 3.A. REF. ASCE 7-16 3.B. BASIC WIND SPEED, (V) = 113 MPH3.C. IMPORTANCE FACTOR (I) = 1.153.D. EXPOSURF CATEGORY = "C"4. EARTHQUAKE LOADS 4.A. SITE CLASS = "D" 4.B. IMPORTANCE FACTOR, $I_F = 1.25$ 4.C. SEISMIC DESIGN CATEGORY ="D" 4.D. MAPPED SPECTRAL RESPONSE COEFFICIENTS $S_S = 0.242G$ $S_1 = 0.094G$ 4.E. SPECTRAL RESPONSE COEFFICIENTS $S_{DS} = 0.258G$ $S_{D1} = 0.15G$ 4.F. LONG PERIOD: $T_1 = 12s$

ABBREVIATIONS

DESIGN LOADS:

ANCHOR BOLT ADDL **ADDITIONAL** ALT ALTERNATE ALUM ALUMINUM ARCH ARCHITECTURAL ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

BEAM BOTTOM BOT. OR B.

CONSTRUCTION JOINT CENTERLINE **CLR** CLEAR COLUMN COL CONCRETE CONTINUOUS DEGREE DET DETAIL DIAMETER

DIRECTION DOWN DRAWING DOWEL DWL EACH EACH FACE ELEVATION EACH WAY

EXPANSION JOINT EXIST EXISTING FD FLOOR DRAIN

INSIDE FACE LONG LONG LEG HORIZONTAL LONG LEG VERTICAL LLV

ΙP LOW POINT MAXIMUM MFR MANUFACTURER MECH MECHANICAL MINIMUM

NOT TO SCALE NTS ON CENTER OUTSIDE FACE OPNG OPENING

MIN

PIECE POUNDS PER CUBIC FEET PJF PREMOULDED JOINT FILLER PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PROJ PROJECTION

SECT SECTION **SPECIFICATIONS** SPECS SQ SQUARE

SSPC STEEL STRUCTURES PAINTING COUNCIL STD STANDARD

STRUCT STRUCTURAL SYMM SYMMETRICAL

TOC TOP OF CONCRETE TOS TOP OF STEEL TR **THREADS** TYP **TYPICAL**

STEEL

UNLESS NOTED OTHERWISE

VERT. OR V VERTICAL WATERSTOP WWF WELDED WIRE FABRIC SEAL

OWNER

02/26/2020



CONSULTANT INFORMATION PROJECT MANAGER: P.J.J. DESIGNED BY:PJJ DRAWN BY: SKR/SPM CHECKED BY: AAA FILENAME: S.01 & S.02 STRUCTURAL NOTES.dwg



PROJECT NO.: 273-18-210

3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

AUTHORI F SLUDG FRADES WER UPG V, GE ATER & SEV FOREST TERING I

N.T.S.

NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS. 11x17 IS 212%± OF SCALE SHOWN.

OF

STATEMENT OF SPECIAL INSPECTIONS

STATEMENT DATE: JANUARY 24, 2020

PROJECT NAME: <u>DAWSON FOREST WRF SLUDGE DEWATERING UPGRADES</u>

BUILDING PERMIT NUMBER:

PROJECT ADDRESS: <u>1349 MARTIN RD. DAWSONVILLE</u>, <u>GEORGIA 30534</u> OWNER: <u>ETOWAH WATER AND SEWER AUTHORITY</u>

STRUCTURAL ENGINEER OF RECORD: AHMED A. ANNAIM

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DPIRC): AHMED A. ANNAIM

THE FOLLOWING INFORMATION IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTION PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC). ATTACHED IS THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THIS PROJECT. THIS COMPLETED FORM IS REQUIRED TO BE PLACED ON THE DRAWINGS FOR PLAN REVIEW. AFTER PERMIT ISSUANCE, A LISTING OF THE SPECIAL INSPECTION FIRMS (SIF) AND THE DESIGNATED SPECIAL INSPECTORS (DSI) FOR EACH INSPECTION TYPE WILL BE ATTACHED TO THIS FORM AND TURNED IN TO THE BUILDING INSPECTOR PRIOR TO SCHEDULING THE PRE—CONSTRUCTION MEETING WITH THE COUNTY CODE ENFORCEMENT. NO WORK IS PERMITTED TO BE PERFORMED PRIOR TO THE SPECIAL INSPECTIONS PRE—CONSTRUCTION MEETING.

THIS AND ALL SUBSEQUENT REPORTS, LOGS, TESTING RESULTS, AND OTHER RELATED SPECIAL INSPECTIONS DOCUMENTS SHALL BE TURNED IN TO THE BUILDING INSPECTIONS OFFICE WITHIN 10 BUSINESS DAYS OF THE EVENT DOCUMENTED. ONLY DOCUMENTS THAT ARE PREPARED BY AUTHORIZED SPECIAL INSPECTORS (ASI) AND SIGNED/SEALED BY DSI ARE VALID AND ARE PERMITTED TO BE TURNED IN TO THE BUILDING INSPECTIONS OFFICE. THE DSI WILL NOTIFY THE DEPARTMENT UPON THE DISCOVER OF INFORMATION THAT WOULD CONTROVERT THE RESULT OF ANY INFORMATION REPORTED AND UPDATE SAID INFORMATION WITHIN 10 DAYS.

THE DSI IS RESPONSIBLE FOR VERIFYING ALL INFORMATION ON EACH DOCUMENT PRIOR TO SIGNING/SEALING AND TURNING IT IN. THE DSI IS RESPONSIBLE FOR VERIFYING EACH DOCUMENT THAT IS REPORTED TO THE INSPECTION OFFICE IS THE CORRECT DOCUMENT.

THE DSI IS RESPONSIBLE FOR CORRECTING ANY DOCUMENTS THAT HAVE INCORRECT ATTRIBUTES OR CONTAIN ERRORS, AND RESUBMITTING THE CORRECT INFORMATION OR DOCUMENT TO THE INSPECTION OFFICE. THE DSI IS RESPONSIBLE FOR VERIFYING ALL ASI'S MAINTAIN CURRENT CERTIFICATIONS DURING THE COURSE OF THE PROJECT, AS FAILURE TO MAINTAIN CURRENT CERTIFICATIONS MAY RESULT IN A VOIDED DOCUMENT. AT THE CONCLUSION OF EACH INDIVIDUAL SPECIAL INSPECTION ITEM, THE DSI WILL COMPLETE A FINAL REPORT AD TURN IT IN TO THE DPIRC AND THE BUILDING INSPECTOR. THE DPIRC IS RESPONSIBLE FOR COMPLETING THE DPIRC LETTER AT THE CONCLUSION OF ALL SPECIAL INSPECTIONS.

THE SPECIAL INSPECTION PROGRAM OUTLINED HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES, INCLUDING QUALITY CONTROL, QUALITY ASSURANCE, OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY. FAILURE TO ADHERE TO THE SI PROGRAM AS OUTLINED HEREIN, MAY RESULT IN A STOP WORK NOTICE BEING ISSUED BY THE DEPARTMENT.

RESPECTFULLY SUBMITTED, AHMED A. ANNAIM P.E., GA LICENSE No. 35562



1/24/2020

SIGNATURE & DATE

	DOC	JMENT	rs)					
2	MATI	ERIAL \	/ERIFIC	CATION OF STRUCTURAL STEEL	SHOP (3) AND FIELD INSPECTION	Υ	PERIODIC	
3	STRU	ICTURA	AL STE	EL WELDING:				
	a.	WELD	ED JO	I TASKS PRIOR TO WELDING (OBSERVE, OR PERFORM FOR EACH INT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	SHOP (3) AND FIELD INSPECTION	N	OBSERVE OR PERFORM AS NOTED (4)	
	b.			I TASKS DURING WELDING (OBSERVE, OR PERFORM FOR EACH INT OR MEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	SHOP (3) AND FIELD INSPECTION	N	OBSERVE (4)	
	c. d.	JOINT	OR M	I TASKS AFTER WELDING (OBSERVE, OR PERFORM FOR EACH WELDED IEMBER, THE QA TASKS LISTED IN AISC 360, TABLE N5.4-3) JCTIVE TESTING (NDT) OF WELDED JOINTS: SEE COMMENTARY	SHOP (3) AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED (4)	
	u.	1)	СОМ	PLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK GORY III OR IV	SHOP (3) OR FIELD ULTRASONIC TESTING - 100%	N	PERIODIC	
		2)		PLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK GORY II	SHOP (3) OR FIELD ULTRASONIC TESTING 10% OF WELDS MINIMUM	N	PERIODIC	
		3)		DED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, ENDIX 3, TABLE A-3.1	SHOP (3) OR FIELD RADIOGRAPHIC OR ULTRASONIC TESTING	N	PERIODIC	
4	CTDU	4)		CICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS	N	EACH SUBMITTAL (5)	
4				EL BOLTING:	SHOP (3) AND FIELD INSPECTION			
	a.	BOLTE		I TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH NNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, -1)		Y	OBSERVE OR PERFORM AS NOTED (4)	
	b.	Inspectors N5.6-2		asks During Bolting (Observe the QA tasks listed in AISC 360, Table		Y	OBSERVE (4)	
		1)	PRE-1	TENSIONED AND SLIP-CRITICAL JOINTS				
			a)	TURN-OF-NUT WITH MATCHING MARKINGS		N	PERIODIC	
			b)	DIRECT TENSION INDICATOR		Y	PERIODIC	
			c)	TWIST-OFF TYPE TENSION CONTROL BOLT		N	PERIODIC	
			d)	TURN-OF-NUT WITHOUT MATCHING MARKINGS		N	CONTINUOUS	
			e)	CALIBRATED WRENCH		N	CONTINUOUS	
	c.		CTION	G-TIGHT JOINTS I TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED		Y	PERIODIC	
) ((C))	3)		ON IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-		Y	PERFORM (4)	
5	MAIN SUBS GALV	N MEM SEQUEN ANIZE	BERS A NT TO D STRU	ON OF EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS GALVANIZING. VISUAL INSPECTION OF EXPOSED CUT SURFACES OF UCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE SS FOR CRACKS SUBSEQUENT TO GALVANIZING	SHOP (3) AND FIELD INSPECTION	Y	PERIODIC	
6	l	EDMEN ANCHC	•	ERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3	FIELD INSPECTION	Y	PERIODIC	
7				LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	Y	PERIODIC	
1705	.2.2 (COLD-	FORM	MED STEEL DECK				
1	QA/C		TION	DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN SDI 2, PARAGRAPHS 2.1 AND 2.2 FOR COMPLIANCE WITH CONSTRUCTION	SUBMITTAL REVIEW	Y	EACH SUBMITTAL	
2		ERIAL \ ERIALS		CATION OF STEEL DECK, MECHANICAL FASTENERS AND WELDING	SHOP (3) AND FIELD INSPECTION	Y	PERIODIC	
3	COLD			TEEL DECK PLACEMENT:	SHOP (3) AND FIELD INSPECTION			
	а.	IN SD	I QA/C	I TASKS PRIOR TO DECK PLACEMENT (PERFORM THE QA TASKS LISTED QC, APPENDIX 1 TABLE 1.1)		N	PERFORM (4)	
	b.			I TASKS AFTER DECK PLACEMENT (PERFORM THE QA TASKS LISTED IN APPENDIX 1 TABLE 1.2)		Y	PERFORM (4)	
4	COLD)-FORM	/IED ST	TEEL DECK WELDING:	SHOP (3) AND FIELD INSPECTION			
	а.			I TASKS PRIOR TO WELDING (OBSERVE THE QA TASKS LISTED IN SDI PENDIX 1 TABLE 1.3)		N	OBSERVE (4)	
	b.	I .		I TASKS DURING WELDING (OBSERVE THE QA TASKS LISTED IN SDI PENDIX 1 TABLE 1.4)		N	OBSERVE (4)	
	c.	I .		I TASKS AFTER WELDING (PERFORM THE QA TASKS LISTED IN SDI PENDIX 1 TABLE 1.5)		N	PERFORM (4)	
5	COLD)-FORM	/IED ST	TEEL DECK MECHANICAL FASTENING:	SHOP (3) AND FIELD INSPECTION			
	a.			I TASKS PRIOR TO MECHANICAL FASTENING (OBSERVE THE QA TASKS DI QA/QC, APPENDIX 1 TABLE 1.6)		N	OBSERVE (4)	
	b.	I .		I TASKS DURING MECHANICAL FASTENING (OBSERVE THE QA TASKS DI QA/QC, APPENDIX 1 TABLE 1.7)		N	OBSERVE (4)	
	c.			I TASKS AFTER MECHANICAL FASTENING (PERFORM THE QA TASKS DI QA/QC, APPENDIX 1 TABLE 1.8)		N	PERFORM (4)	
1705	.2.3.	OPEN	-WEB	STEEL JOISTS AND JOIST GIRDERS				
1	INSTA			OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.				
	a. b.	BOLTE	ED.	ECTIONS - WELDING OR BOLTED. END CONNECTIONS - WELDING OR HORIZONTAL OR DIAGONAL.	PER SJI CJ OR SJI 100	N	PERIODIC	
	۵.	1)		IDARD BRIDGING	PER SJI CJ OR SJI 100	N	PERIODIC	
		2)	BRID	GING THAT DIFFERS FROM THE SPECIFICATIONS LISTED IN SJI CJ OR SJI	. 1. 3. 3. 01 3. 100		PERIODIC	
1705	.2.4.	Ĺ	100.	MED STEEL TRUSSES SPANNING 60 FEET OR GREATER		N	PEKIODIC	
				RY AND PERMANENT RESTRAINT/BRACING ARE INSTALLED IN	FIELD INSPECTION	N	PERIODIC	
	ACCC	ORDAN	CE WI	TH THE APPROVED TRUSS SUBMITTAL PACKAGE	TILLD INSPECTION	IN	FLMODIC	

SCHEDULE OF SPECIAL INSPECTIONS SERVICES - STEEL CONSTRUCTION

SUBMITTAL REVIEW

MATERIAL / ACTIVITY

FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, SECTION N 3.2 FOR COMPLIANCE WITH CONSTRUCTION

1705.2.1 STRUCTURAL STEEL CONSTRUCTION

APPLICABLE TO THIS PROJECT

AGENT*

COMPLETED

EXTENT

EACH SUBMITTAL

	SCHEDULE OF SPECIAL INSP	ECTIONS SERVI	CES - SOI	LS		
	MATERIAL / ACTIVITY	SERVICE		APPLICABLE	TO THIS PRO	JECT
			Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.	6 SOILS					
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	Υ	PERIODIC		
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	Υ	PERIODIC		
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	FIELD INSPECTION	Υ	PERIODIC		
4	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	FIELD INSPECTION	Υ	PERIODIC		
5	PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	Υ	PERIODIC		

			MATERIAL / ACTIVITY	CED/IICE		APPLICABLE TO	THIS PROJEC	CT
			MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE CO
1705	.4 MAS	ONRY	CONSTRUCTION					
	_		TION REQUIREMENTS					
(A)			D 3 QUALITY ASSURANCE:					
	1		TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF ITTALS	SUBMITTAL REVIEW	Υ	PRIOR TO CONSTRUCTION		
(B)			UALITY ASSURANCE:					
	1	1	TO CONSTRUCTION VERIFICATION OF F'M AND F'AAC EXCEPT IE SPECIFICALLY REQUIRED BY THE CODE	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Υ	PRIOR TO CONSTRUCTION		
(C)	2 LEVEL :	STABI TO PR	IG CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL LITY INDEX (VSI) WHEN SELF- CONSOLIDATING GROUT IS DELIVERED OJECT SITE. ITY ASSURANCE:	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Υ	PERIODIC		
	1	DURIN 5,000	IG CONSTRUCTION, VERIFICATION OF F'M AND F'AAC FOR EVERY SF	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	N	PERIODIC		
	2	AS DE MORT	IG CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS LIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED FAR, PRESTRESSING GROUT, AND GROUT OTHER THAN CONSOLIDATING GROUT.		N	PERIODIC		
MINI	MUM SPI	ECIAL II	NSPECTION REQUIREMENTS					
(D)			3 QUALITY ASSURANCE:					
	1	AS MA	ASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE					
		a.	PROPORTIONS OF THE SITE- PREPARED MORTAR	FIELD INSPECTION	N	PERIODIC		
		b.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	FIELD INSPECTION	N	PERIODIC		
		C.	GRADE, TYPE, AND SIZE OF REINFORCEMENT, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	FIELD INSPECTION	Υ	PERIODIC		
		d.	PRESTRESSING TECHNIQUE	FIELD INSPECTION		PERIODIC		
		e.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		N	LEVEL 2 - CONTINUOUS (b)		
				FIELD INSPECTION		LEVEL 2 - PERIODIC (c)		
			(b) REQUIRED FOR THE FIRST 5,000 SQUARE FEET (c) REQUIRED AFTER THE FIRST 5,000 SQUARE FEET	_	Y	LEVEL 3 - CONTINUOUS		
		f.	SAMPLE PANEL CONSTRUCTION		Y Y	LEVEL 2 - PERIODIC		
		''	SAWI EL PANEL CONSTRUCTION	FIELD INSPECTION	Y	LEVEL 3 - CONTINUOUS		
	2	PRIOR	L TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE	:	<u> </u>			
		a.	GROUT SPACE		Υ	LEVEL 2 - PERIODIC		
				FIELD INSPECTION	N N	LEVEL 3 - CONTINUOUS		
		b.	PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	FIELD INSPECTION	N	PERIODIC		
		c.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR	FIELD INSPECTION	N	LEVEL 2 - PERIODIC		
			BOLTS	FIELD INSPECTION -	Υ	LEVEL 3 - CONTINUOUS		
		d.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSSING GROUT FOR BONDED TENDONS	FIELD INSPECTION	Υ	PERIODIC		
	3	VERIF	Y COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
		a.	MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	FIELD INSPECTION	Υ	PERIODIC		
		b.	PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	FIELD INSPECTION	Υ	PERIODIC		
		c.	SIZE AND LOCATION OF STRUCTURAL MEMBERS	FIELD INSPECTION	Υ	PERIODIC		
		d.	TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS,	FIELD INSPECTION	Υ	LEVEL 2 - PERIODIC		
			FRAMES, OR OTHER CONSTRUCTION		N N	LEVEL 3 - CONTINUOUS		
		e. f.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT	FIELD INSPECTION FIELD INSPECTION	N Y	CONTINUOUS PERIODIC		
		g	WEATHER (TEMPERATURE ABOVE 90°F) APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	FIELD T	F.1	00177777		
		g. h.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED	FIELD TESTING	N	CONTINUOUS		
			TENDONS IS IN COMPLIANCE	FIELD INSPECTION	Υ	CONTINUOUS		
		i.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	EIELD INCOECTION	N	LEVEL 2 - CONTINUOUS (b) LEVEL 2 - PERIODIC (c)		
			(b) REQUIRED FOR THE FIRST 5,000 SQUARE FEET	FIELD INSPECTION	Υ	LEVEL 3 - CONTINUOUS		
			(c) REQUIRED AFTER THE FIRST 5,000 SQUARE FEET		Υ	LEVEL 3 - CONTINUOUS		
	4	1	AVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, OR PRISMS	FIELD INSPECTION	Υ	LEVEL 2 - PERIODIC		
		ן/טאוא	JITT MUITIO		N	LEVEL 3 - CONTINUOUS		

		SERVICE		APPLICABLE TO T	HIS PROJECT	-
	MATERIAL / ACTIVITY		Y/N	EXTENT	AGENT*	DATE COMPLETED
170	5.3 CONCRETE CONSTRUCTION					
1	INSPECTION AND PLACEMENT VERIFICATION OF REINFORCING STEEL AND PRESTRESSING TENDONS.	SHOP (3) AND FIELD INSPECTION	Υ	PERIODIC		
2	REINFORCING BAR WELDING:	FIELD INSPECTION				
	a. VERIFICATION OF WELDABILITY OF BARS OTHER THAN ASTM A706.		N	PERIODIC		
	b. INSPECTION OF SINGLE-PASS FILLET WELDS 5/16 OR LESS IN SIZE.		N	PERIODIC		
	c. INSPECTION OF ALL OTHER WELDS.		N	CONTINUOUS		
3	INSPECTION OF ANCHORS CAST IN CONCRETE.	SHOP (3) AND FIELD INSPECTION	Υ	PERIODIC		
4	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER RESEARCH REPORTS, OR, IF NO SPECIFIC REQUIREMENTS ARE PROVIDED, REQUIREMENTS SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL AND APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE		Υ	PERIODIC OR AS REQUIRED BY THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE		
	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD-INCLINED ORIENTATION THAT RESIST SUSTAINED TENSION LOADS.		Υ	CONTINUOUS		
	b. MECHANICAL AND ADHESIVE ANCHORS NOTE DEFINED IN 4a.		Υ	PERIODIC		
5	VERIFY USE OF APPROVED DESIGN MIX	SHOP (3) AND FIELD INSPECTION	Υ	PERIODIC		
6	PRIOR TO PLACEMENT, FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE AND PERFORM ANY OTHER TESTS AS SPECIFIED IN CONSTRUCTION DOCUMENTS.	SHOP (3) AND FIELD INSPECTION	Υ	CONTINUOUS		
7	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP (3) AND FIELD INSPECTION	Υ	CONTINUOUS		
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP (3) AND FIELD INSPECTION	Υ	PERIODIC		
9	INSPECTION OF PRESTRESSED CONCRETE	SHOP (3) AND FIELD INSPECTION				
	a. APPLICATION OF PRESTRESSING FORCE		N	CONTINUOUS		
	b. GROUTING OF BONDED PRESTRESSING TENDONS		N	CONTINUOUS		
10	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		N	PERIODIC		
11	VERIFICATION OF 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	REVIEW FIELD TESTING AND LABORATORY REPORTS	Υ	PERIODIC		
12	INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS	FIELD INSPECTION	Υ	PERIODIC		
13	CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Υ	PERIODIC		

ВУ	РЈЈ	ГРЛ	PJJ	PJJ	
DESCRIPTION	11/22/2019 60% REVIEW SET	90% REVIEW SET	REGULATORY REVIEW SET	2/26/2020 BID READY SET	
DATE	11/22/2019	1/6/2020	1/24/2020	2/26/2020	
REV.	-	2	3	4	
			SEAL		

No. BE035562

No. BE035562

PROFESSIONAL

O2/26/2020

OWNER



CONSULTANT INFORMATION

PROJECT MANAGER: PJJ

DESIGNED BY: AAA

DRAWN BY: AAA

CHECKED BY: AAA

FILENAME: S.03 STATEMENT OF SPECIAL

FILENAME: INSPECTIONS. dwg

PROJECT NO.: 273-18-210



SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

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

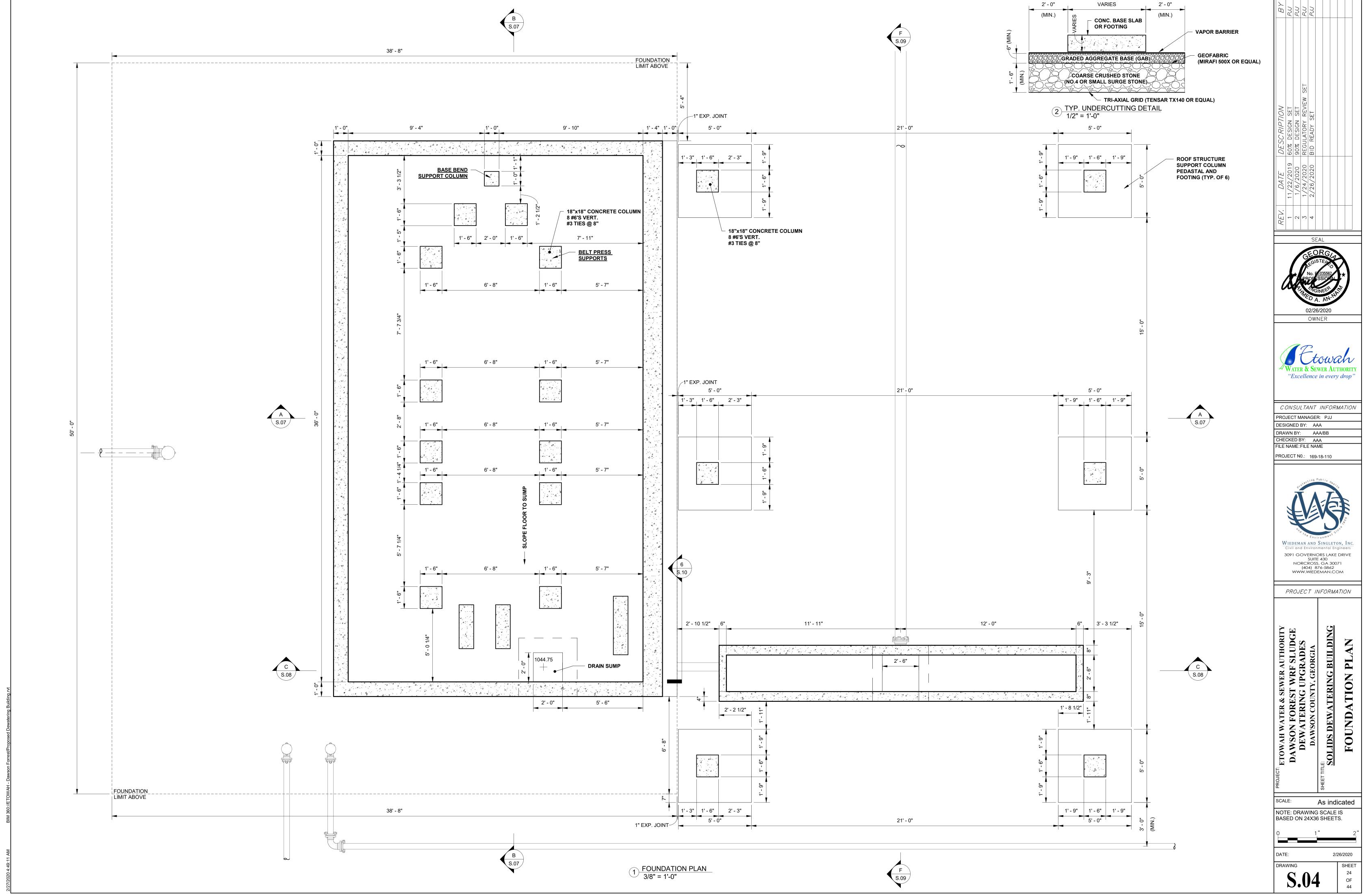
TITLE:

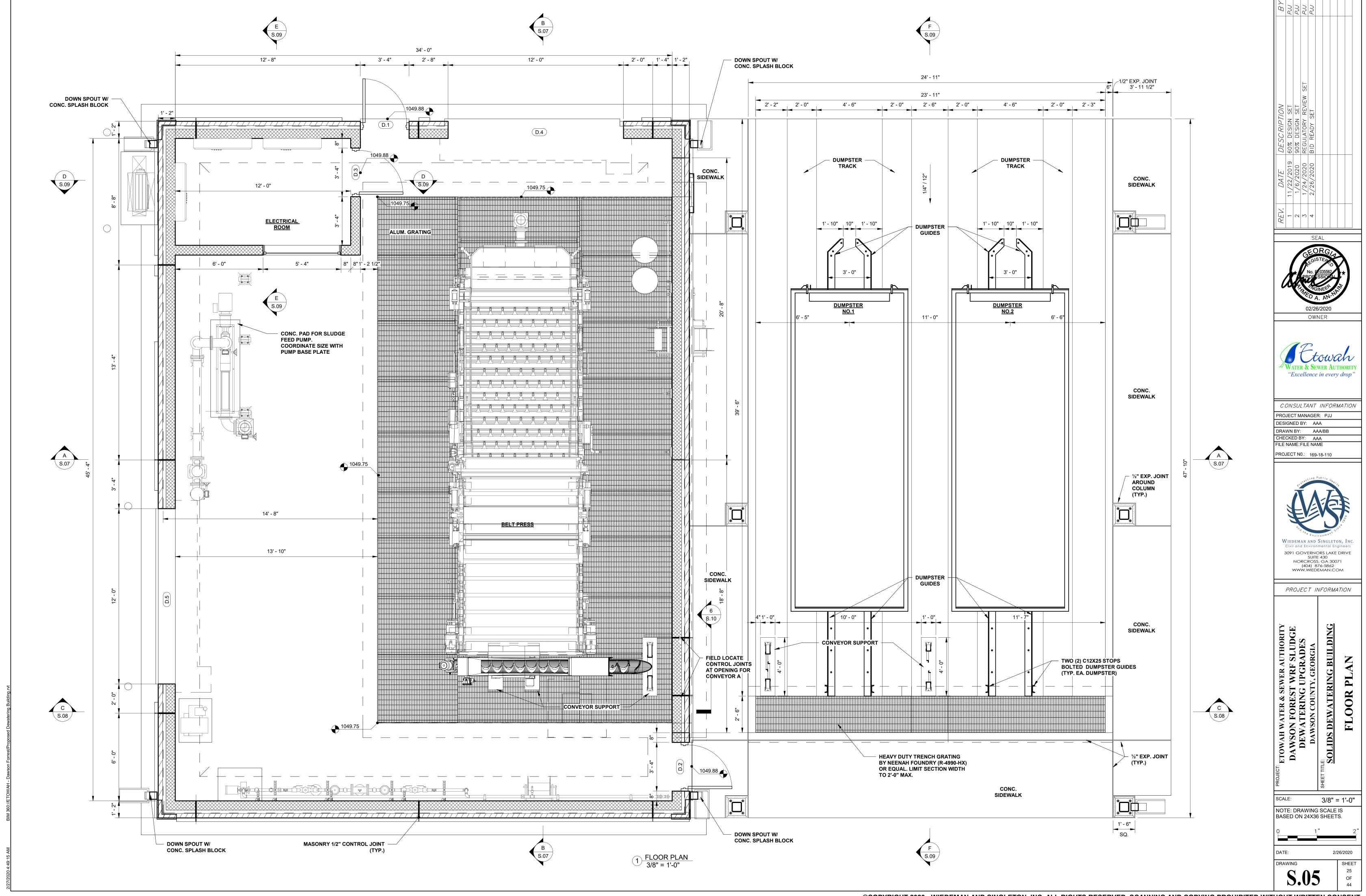
STATEMENT OF SPECIAL
INCORPORTIONS

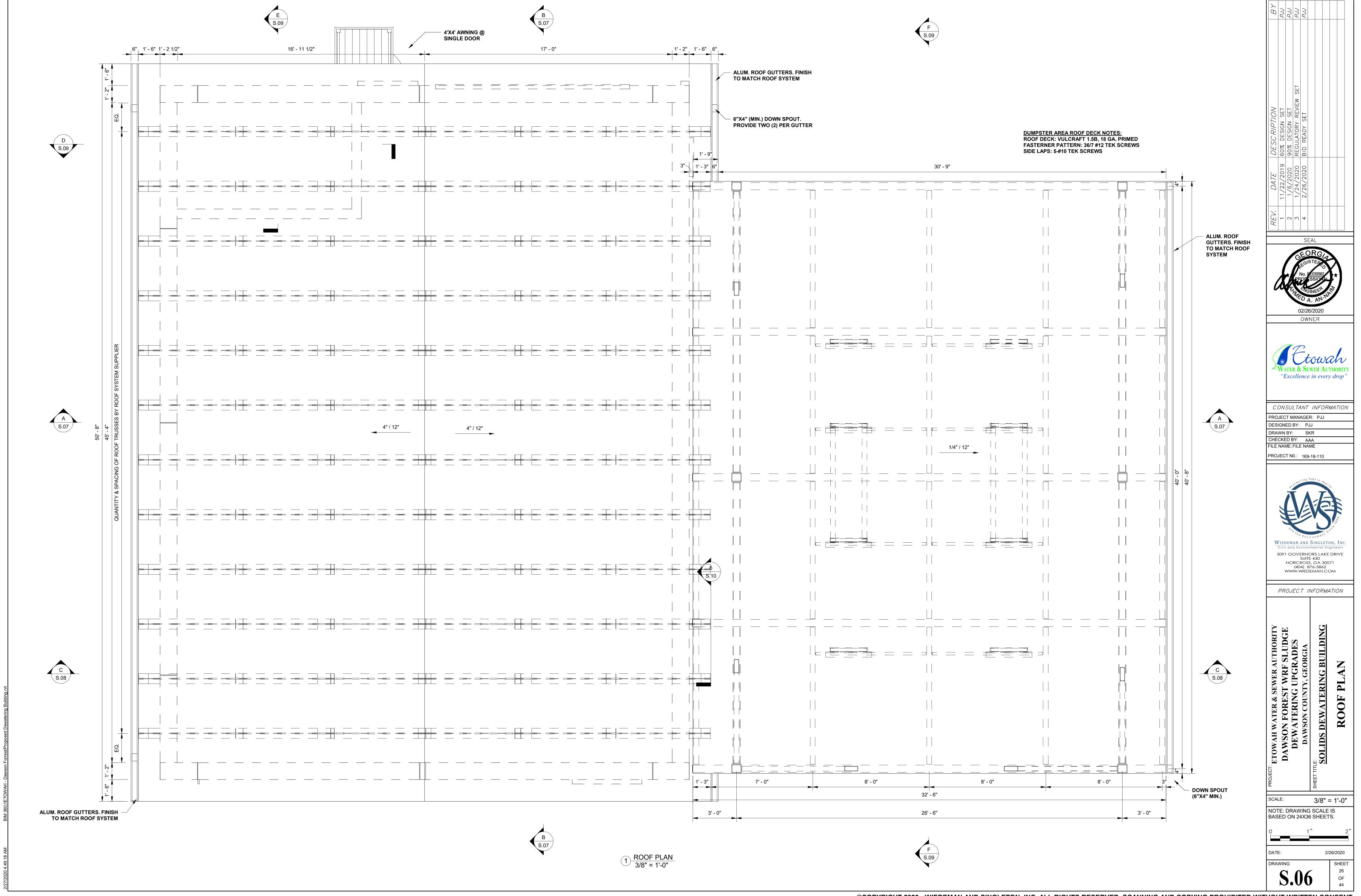
NOTE: DRAWING SCALE IS
BASED ON 24x36 SHEETS.
11x17 IS 212%± OF SCALE
SHOWN.

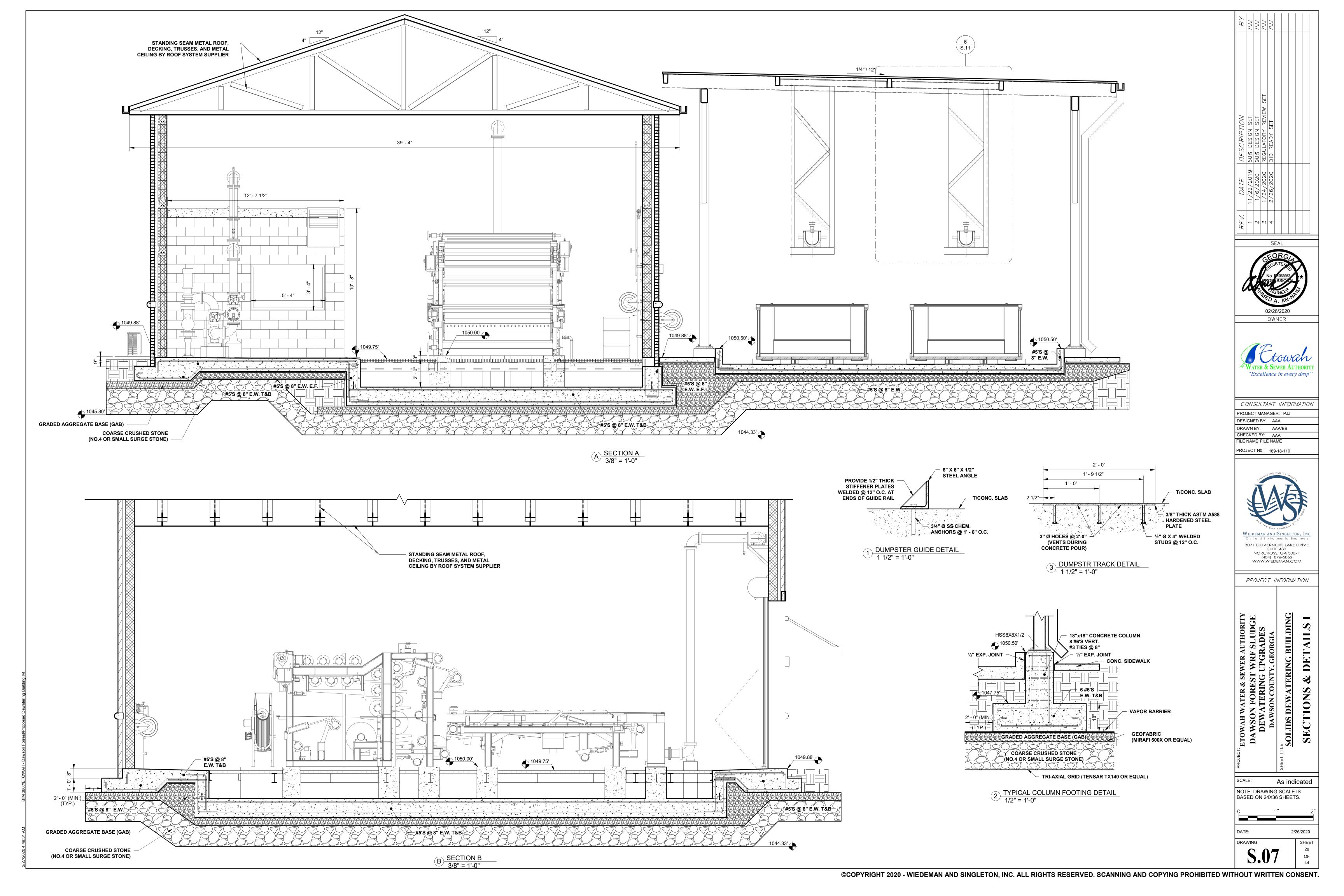
DRAWING S.03

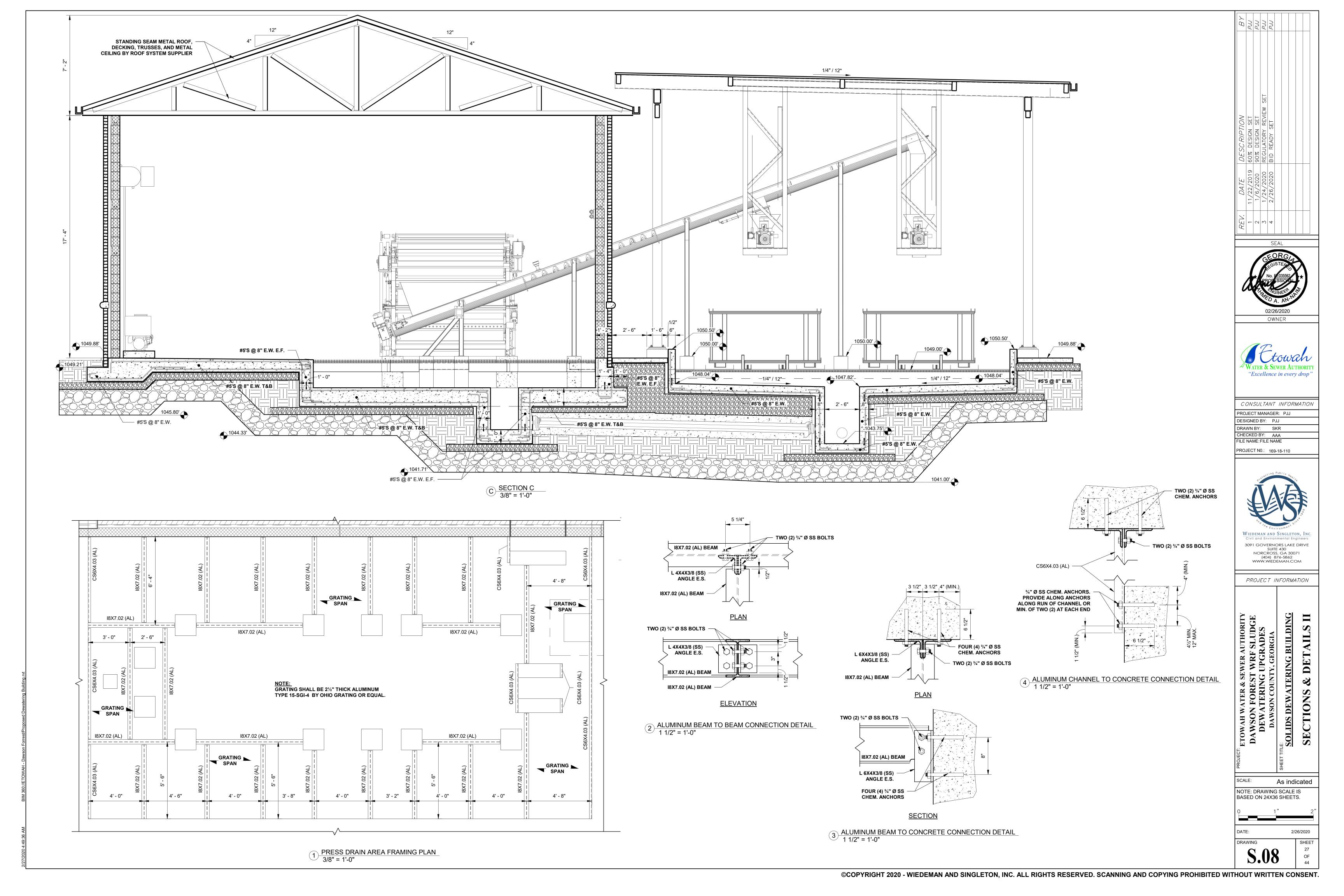
S.03 OF

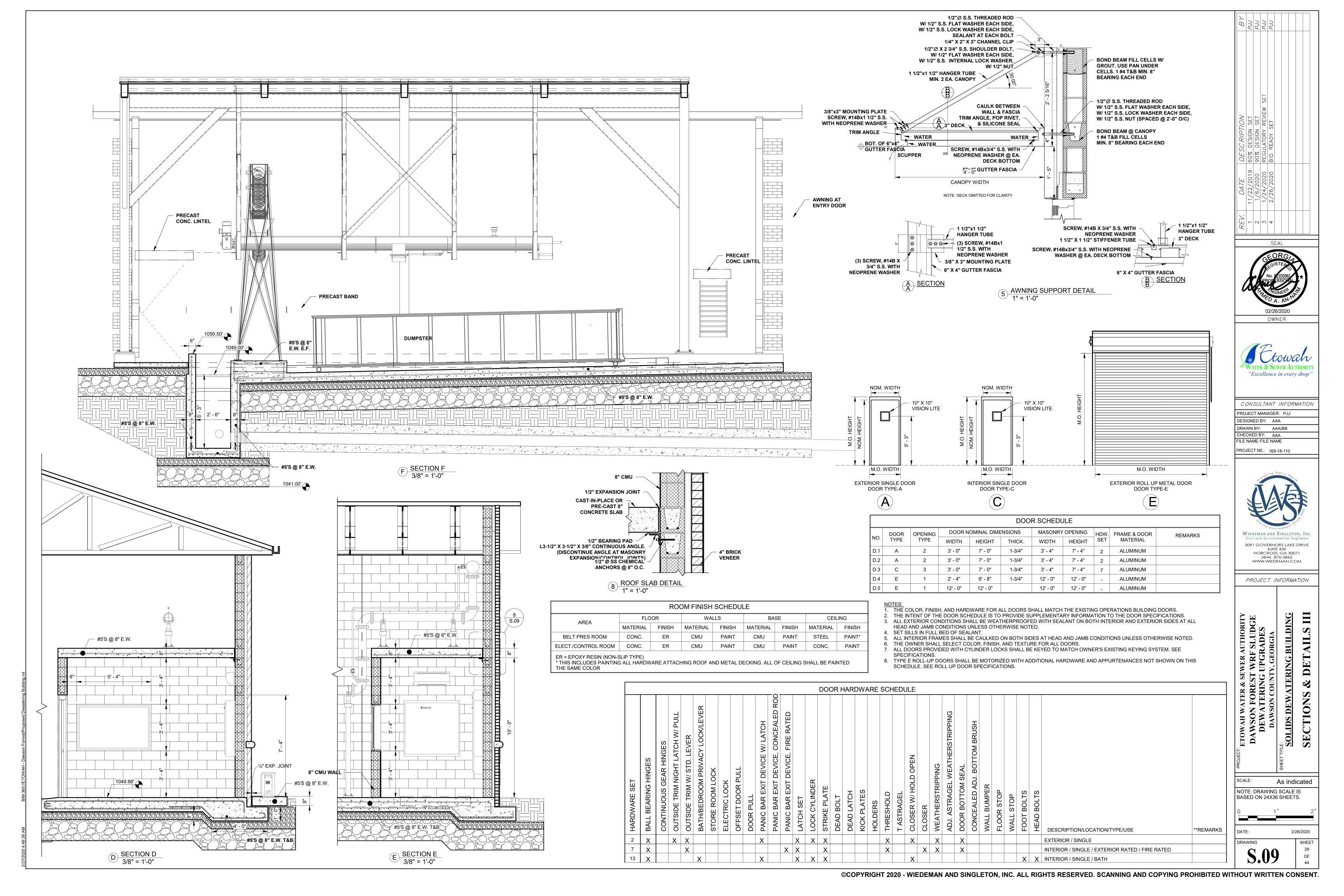


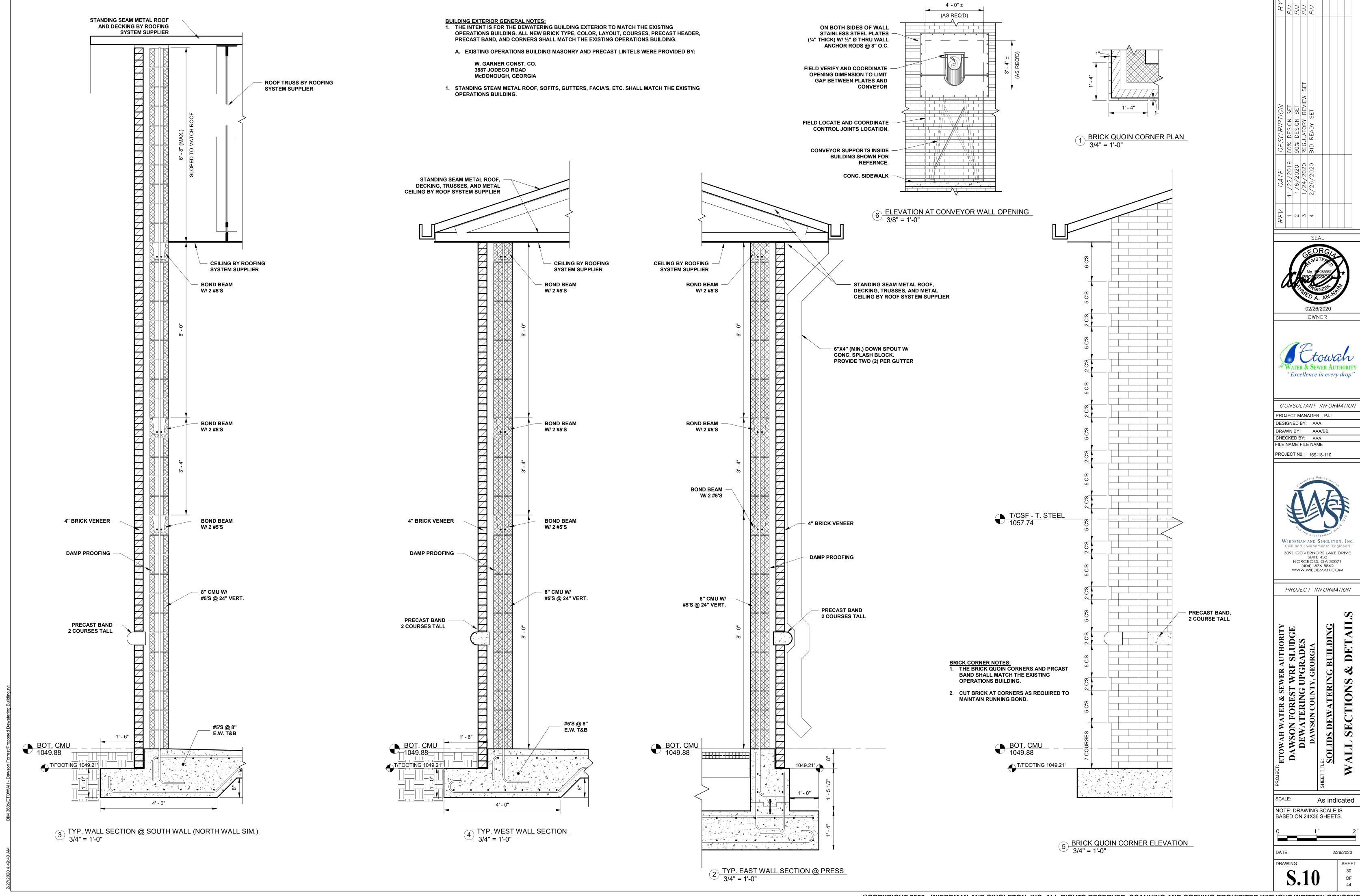


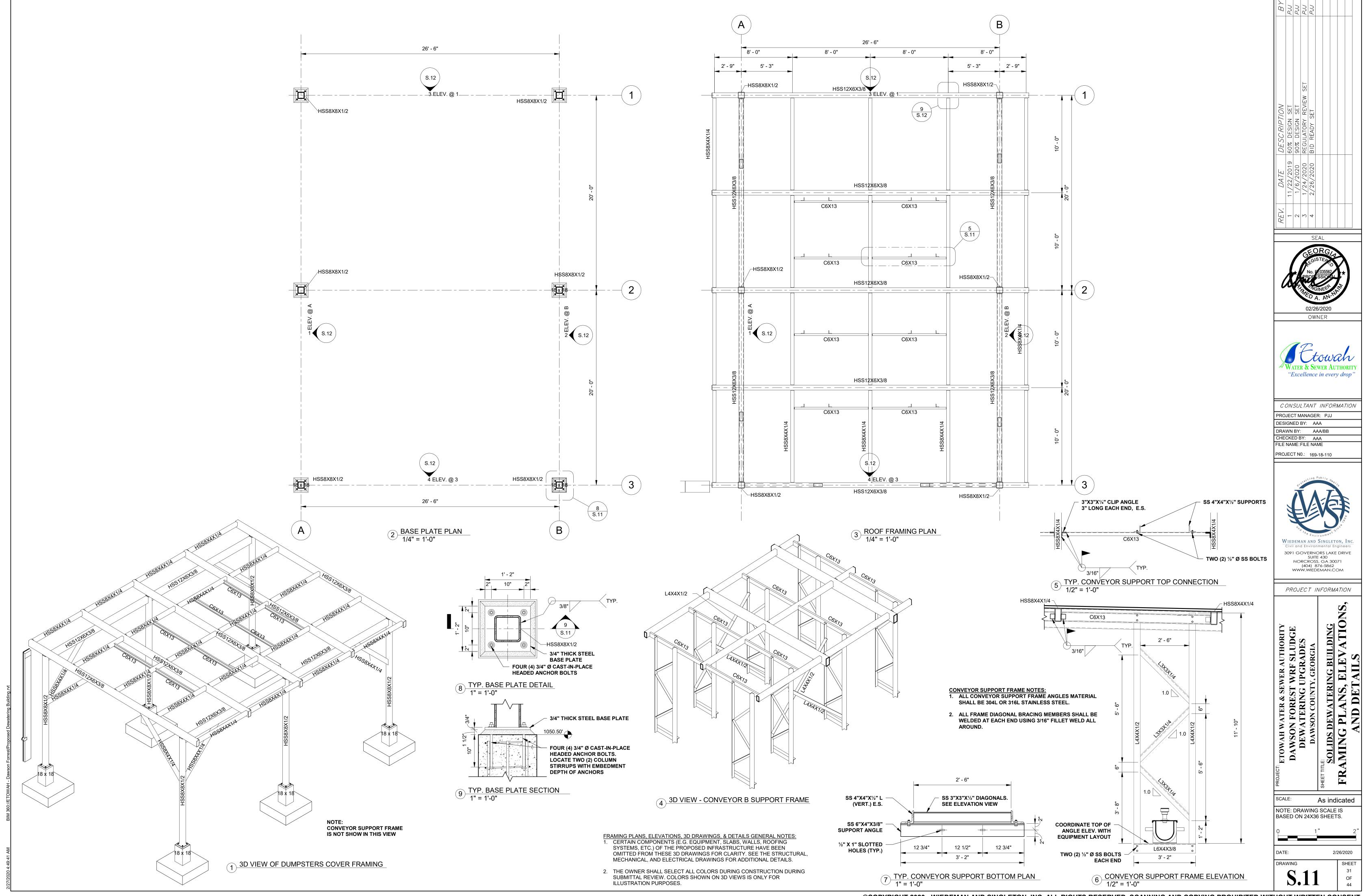


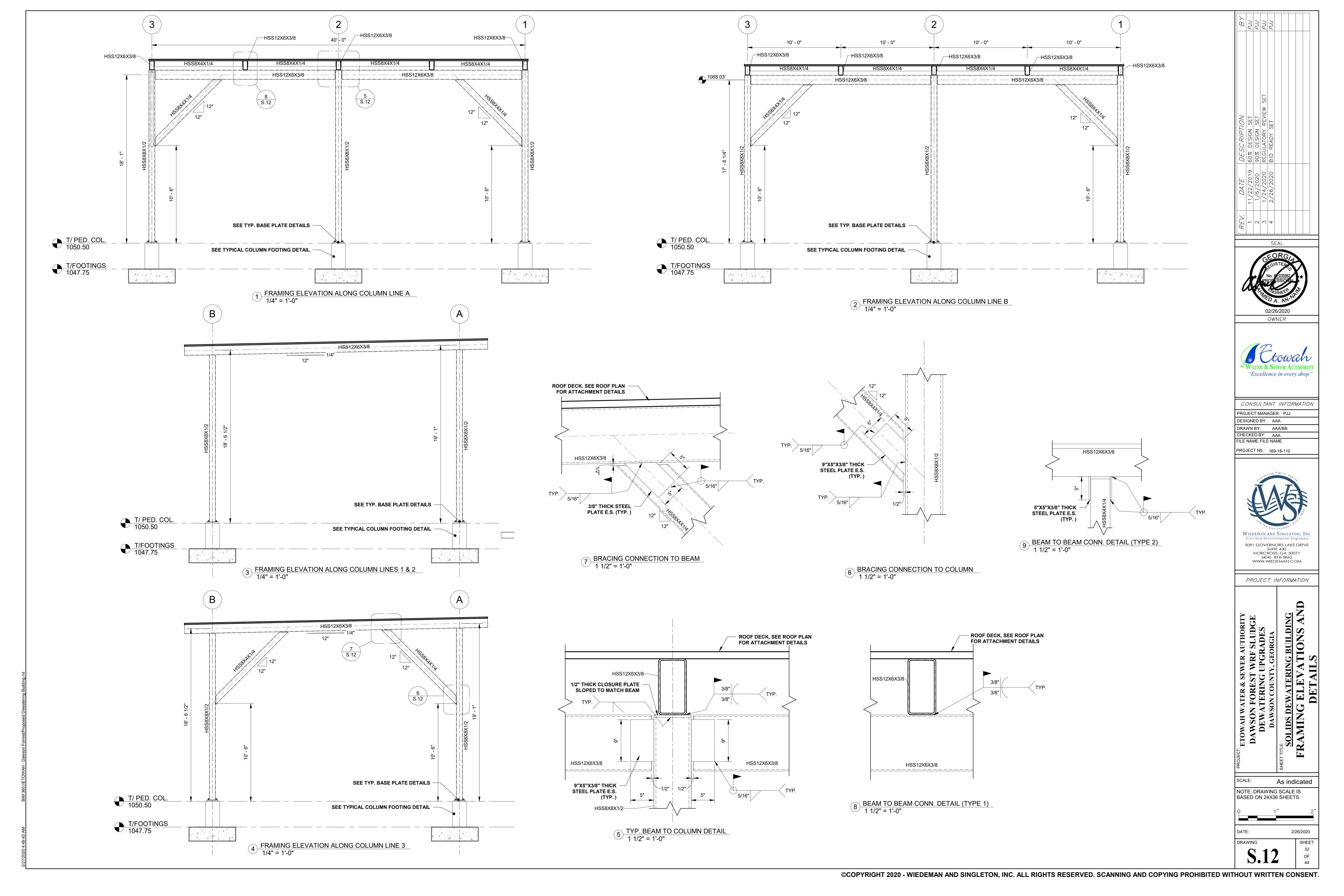


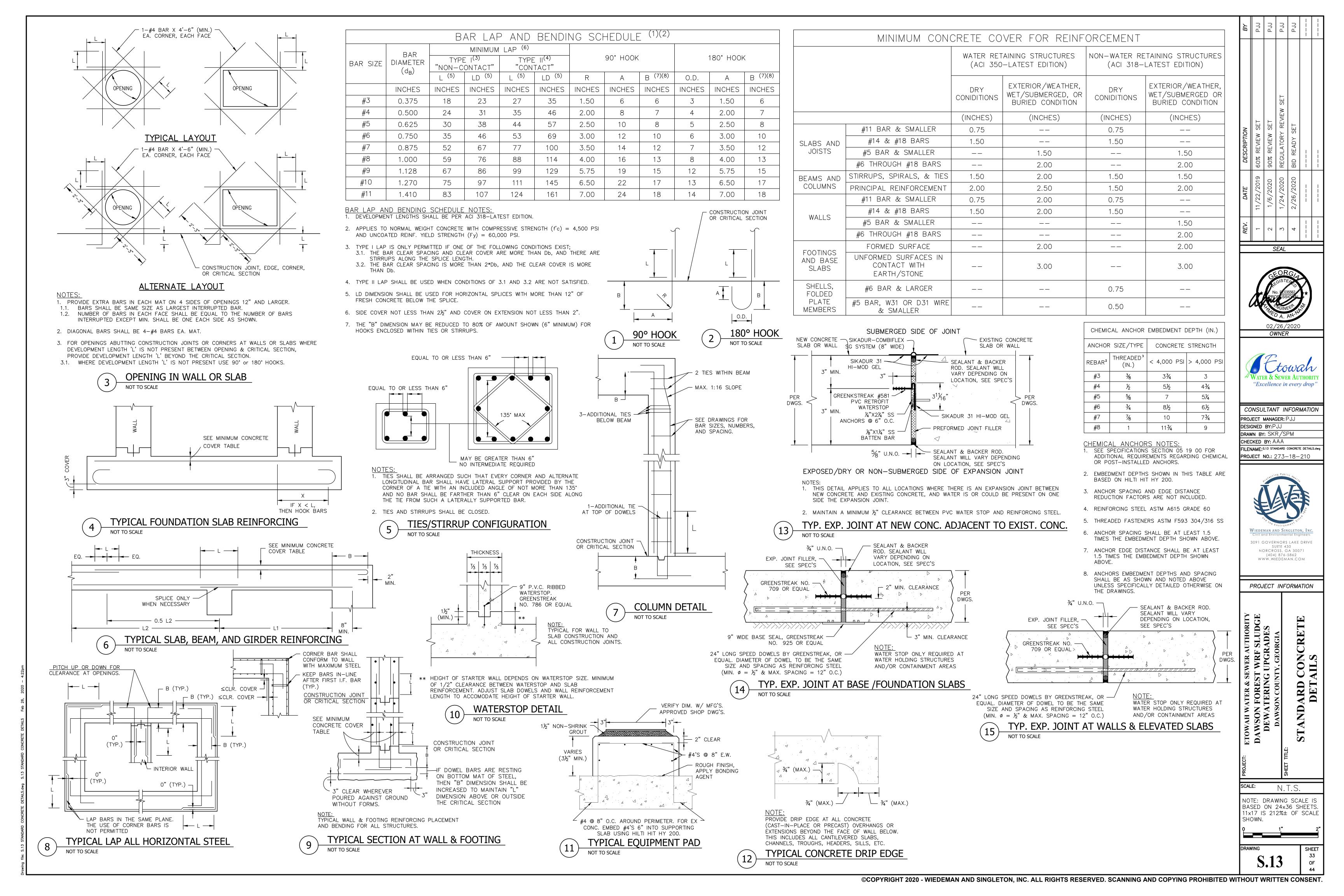


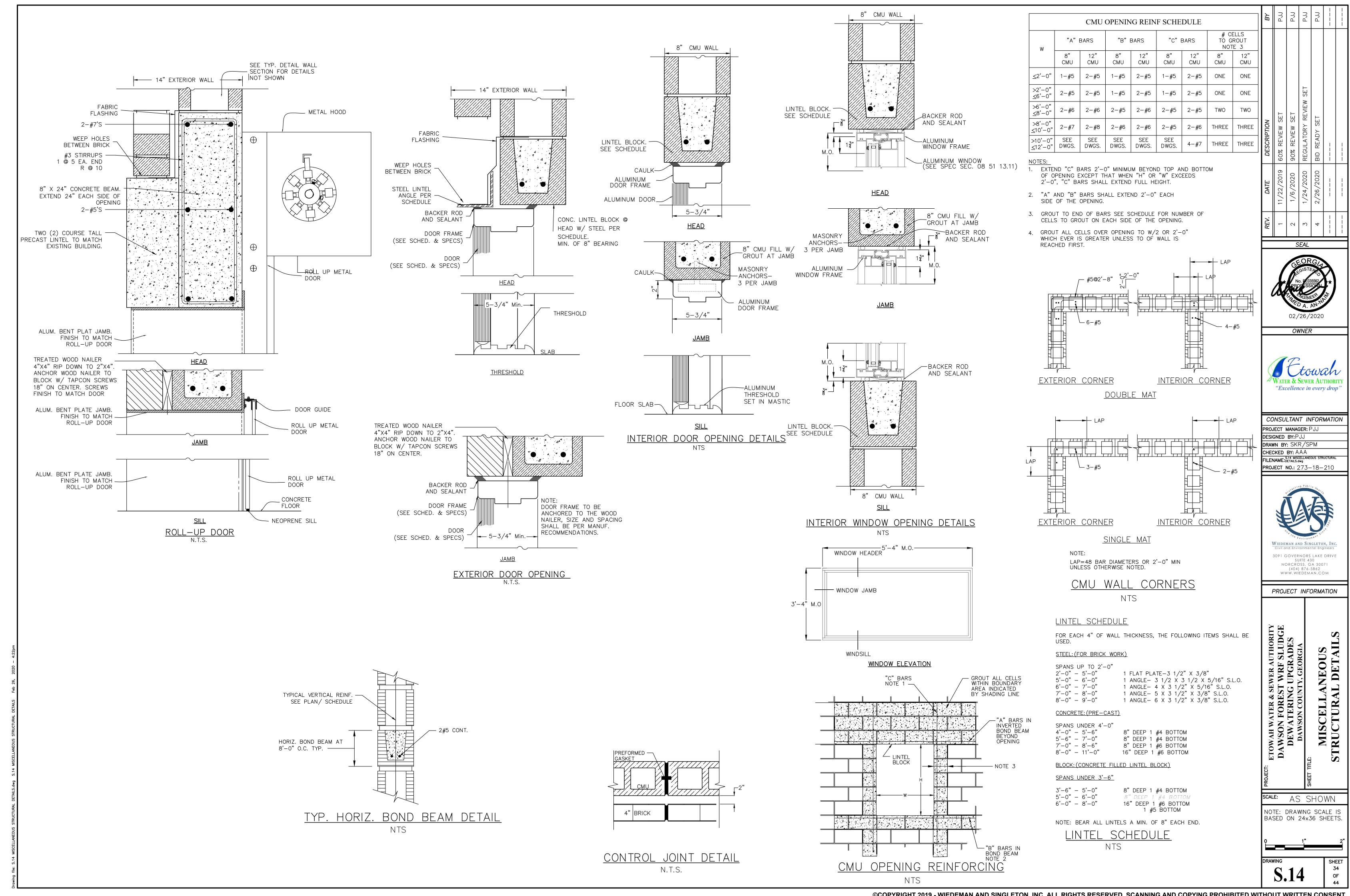


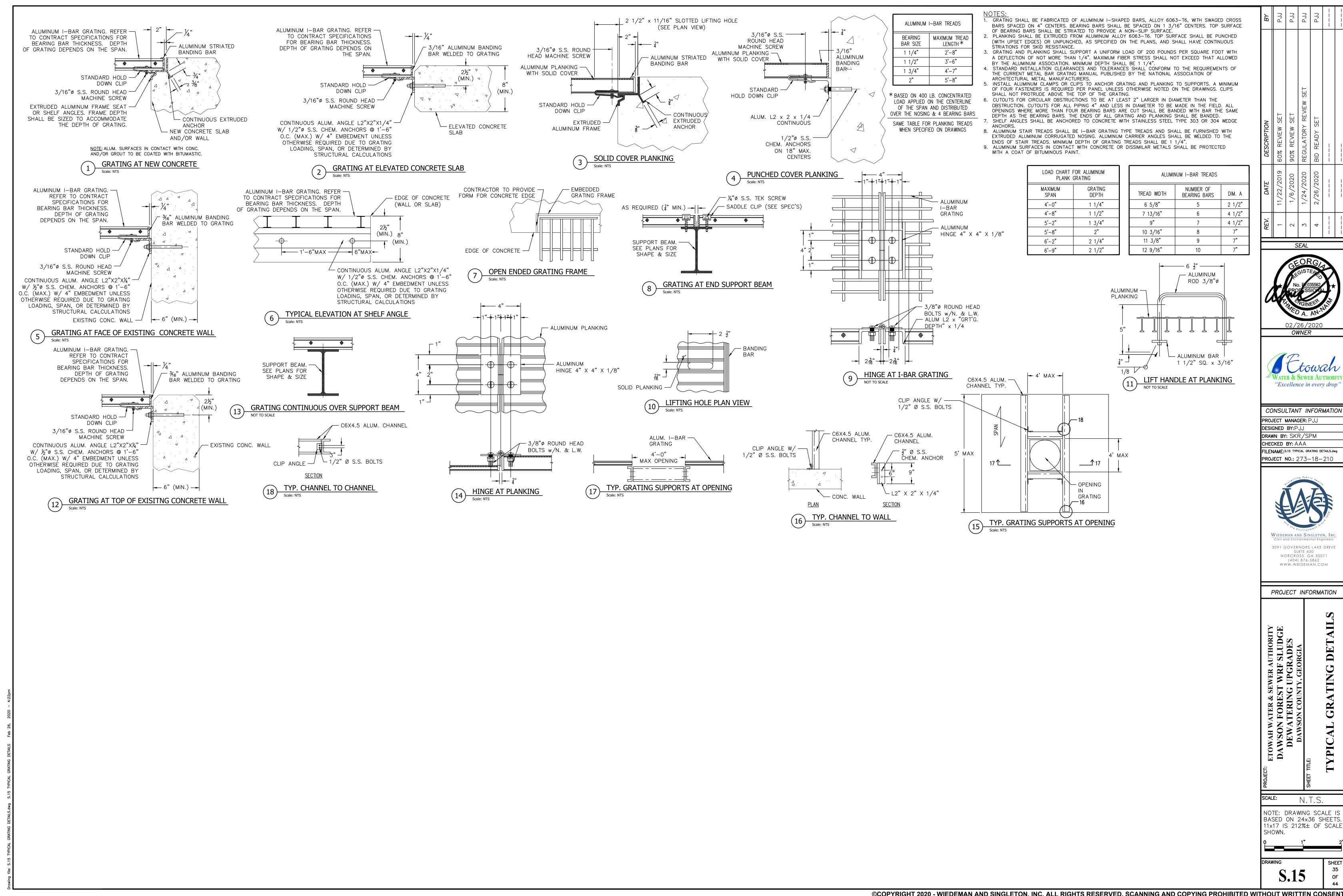


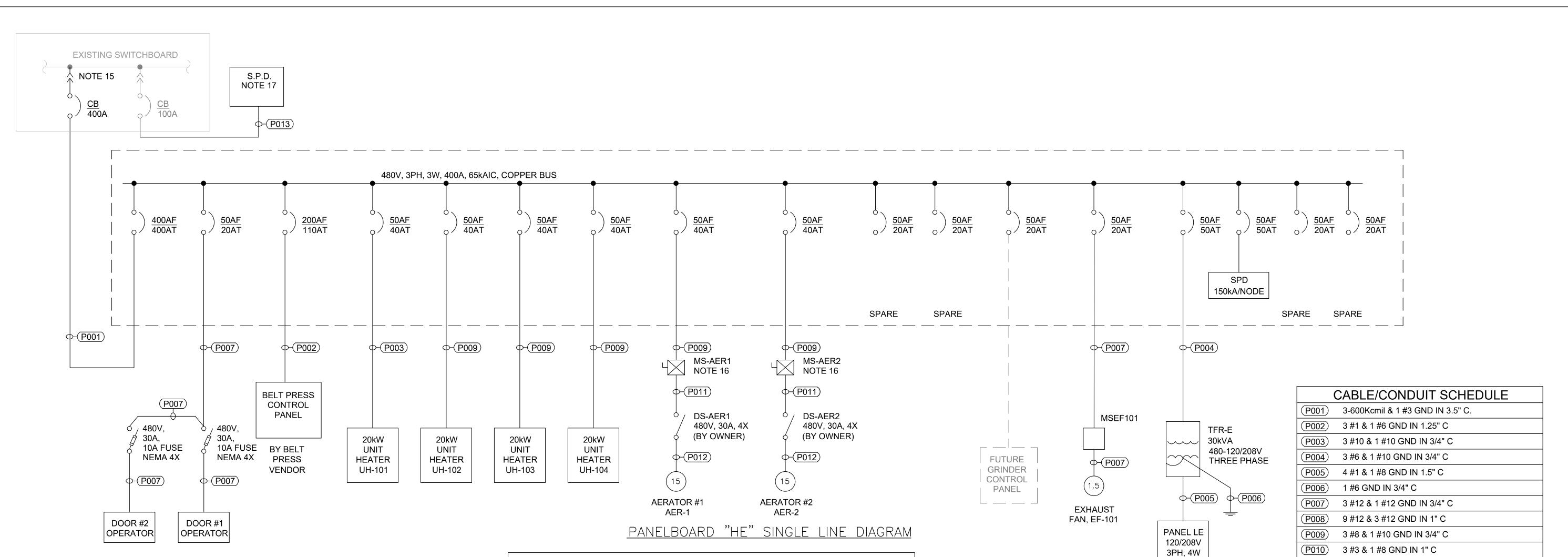












GENERAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE 2017 EDITION, THE LIFE SAFETY CODE, AND ALL STATE, COUNTY AND LOCAL CODES
- 2. THE CONTRACTOR SHALL OBTAIN ALL THE REQUIRED PERMITS FOR CONSTRUCTION PAY ALL FEES AND OBTAIN ALL THE REQUIRED INSPECTIONS, IN PROVIDING THE OWNER WITH A COMPLETE ELECTRICAL SYSTEM, READY FOR CERTIFICATE OF OCCUPANCY.
- 3. THE CONTRACTOR SHALL COORDINATE THE WORK WITH ALL TRADES AT ALL STAGES OF CONSTRUCTION. COORDINATE THE LOCATION OF DEVICES TO AVOID CONFLICTS AND REPORT ALL SUCH CONFLICTS TO THE OWNER/ENGINEER. SEE SEQUENCING OF WORK NOTES FOR SCHEDULING RESTRICTIONS ASSOCIATED FOR WORK DETAILED.
- 4. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS OR HER BID. WORK ON NEW CONSTRUCTION SHALL NOT OBSTRUCT DAILY OPERATIONS OF THE FACILITIES.
- 5. THE CONTRACTOR CAN COMBINE HOME RUNS FOR CIRCUITS ON A SINGLE RACEWAY. PROVIDE DEDICATED NEUTRAL. NO MORE THAN 3 CIRCUITS IN A SINGLE RACEWAY EQUIVALENT TO A 3 PHASE 4 WIRE CIRCUIT IN A SINGLE RACEWAY SHALL BE ACCEPTABLE.
- 6. ALL SIGNAL CONDUCTORS SHALL BE ROUTED IN DEDICATED CONDUIT. DO NOT ROUTE WITH POWER OR CONTROL (#14) CONDUCTORS. WHEN SIGNAL CONDUCTORS SHARE COMMON JUNCTION BOX, PULLBOX, HANDHOLE, OR MANHOLE PROVIDE A PHYSICAL BARRIER BETWEEN CONDUCTORS.
- 7. CONTRACTOR SHALL TERMINATE ALL CONTROL AND SIGNAL CABLES IN ALL CONTROL PANELS. PROVIDE LABELS FOR ALL CONDUCTORS.
- 8. THE CONTRACTOR SHALL INSTALL NEW CONDUCTORS AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSTALL NEW CONDUIT AS REQUIRED FOR FINAL TERMINATIONS TO LIGHTS, PANELS, RECEPTACLES, DEVICES, ETC.
- 9. IN CASE OF DISCREPANCY BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PRICE THE MOST EXPENSIVE ITEM AND REQUEST APPROPRIATE DIRECTION FROM THE OWNER AND ENGINEER. UNDER NO CIRCUMSTANCES SHALL SUCH DISCREPANCIES RESULT IN ADDITIONAL COSTS TO THE OWNER OR RESULT IN ANY CHANGE ORDERS.
- 10. ALL OUTSIDE DEVICES SHALL BE NEMA 4X SS INCLUDING BOXES, PANELS, HARDWARE, FASTENERS, ETC., UNLESS NOTED OTHERWISE.
- 11. CONTRACTOR COORDINATE ALL DUCTBANK ROUTING WITH EXISTING UNDERGROUND PIPING, CONDUITS, TREES, AND UTILITIES.
- 12. ALL EXTERIOR CONDUIT SHALL BE ALUMINUM. ALL INTERIOR CONDUIT INSIDE THE DEWATERING BUILDING SHALL BE ALUMINUM; ALL OTHER PLACES SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND CONDUIT SHALL BE PVC-SCHEDULE 40, U.N.O.
- 13. ALL EXTERIOR CONDUIT AND BOX CONNECTIONS SHALL BE MADE WITH MYERS WATERTIGHT HUBS.
- 14. EF-101 VFD WILL BE FURNISHED BY THE HVAC CONTRACTOR. CONTRACTOR SHALL PROVIDE POWER AND CONDUIT TO VFD AND FAN AND INTERCONNECTING WIRING (2 #12 & 1 #12 GND IN 3/4" C.) BETWEEN VFD AND LOUVER #1, LOUVER #2, AND THE FAN DAMPER.
- 15. INSTALL NEW 480V, 3P, 400A BREAKER IN EXISTING SWITCHBOARD. NEW BREAKER SHALL BE OF THE SAME MANUFACTURER AND HAVE THE SAME AIC RATING AS THE EXISTING BREAKERS. SEE FIGURE 1: EXISTING SWITCHBOARD ON E.06.

SYMBOLS		
	DISCONNECT, NON-FUSED. PROVISION FOR CLASS R FUSES.	
\otimes	FIELD INSTRUMENT CONNECTION	
0	NEMA 4X START/STOP HAND STATION MOUNTED TO HANDRAIL	
\$	120V, 20A, 1P, WP TOGGLE SWITCH WITH ALUMINUM PLATE.	
\$ _M	120V, 20A, 1P, MOTOR TOGGLE SWITCH - NEMA 4X FRP	
φ	DUPLEX 120V RECEPTACLE, 120V, 20A, 1P, GFCI, WEATHERPROOF WITH PHENOLIC PLATE MOUNT 18" AFF UON. PROVIDE FRP BOXES AND COVERS FOR RECEPTACLES IN DEWATERING BUILDING.	NOTE 4
	DUPLEX 120V RECEPTACLE, 120V, 20A, 1P MOUNT 6" ABOVE COUNTER TOP	
JB J	JUNCTION BOX - NEMA 4X SS UNLESS OTHERWISE NOTED	
	WIRING RUN CONCEALED IN FINISHED AREAS OR EXPOSED IN UNFINISHED AREAS. CONTINUOUS LINE INDICATES ABOVE FLOOR WIRING; DASHED LINE INDICATES WIRING BELOW GRADE OR BELOW SLAB. HASH MARKS INDICATE NUMBER OF #12 WIRES (SHORT WIRES INDICATE PHASE CONDUCTORS, LONG HASH INDICATES NEUTRAL CONDUCTOR IF REQUIRED; GROUND WIRE IS NOT INDICATED, BUT IS ALWAYS PRESENT BY THE REQUIREMENT THAT ALL CONDUITS CONTAIN A GREEN GROUNDING CONDUCTOR). NO HASH MARKS INDICATE 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT.	

EXAMPLES:

MARKS

/// 2 HOTS, 1 NEUT., 1 GND.

FURNISH AND INSTALL A NEMA 1 COMBINATION STARTER / DISCONNECT WITH THE FOLLOWING OPTIONS: 15HP, 480V, 3PH, NEMA FVNR SIZE 2 COMBINDATION STARTER, 120V CONTROL VOLTAGE, ON INDICATOR LIGHT, OFF INDICATOR LIGHT, H-O-A SWITCH (AUTO FROM SCADA), ELAPSED TIME METER, ELECTRONIC OVERLOAD. TYPICAL FOR 2.

HOMERUN TO PANEL BOARD (i.e. PANEL BOARD "LP", CIRCUITS 1&3);

DEPICTION OF LINE INDICATES SAME AS NOTED ABOVE. NO HASH

INDICATE 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT.

3 HOTS, 1 NEUT., 1 GND.

| 37 | SPACE

| 39 | SPACE

41 SPACE

2) PROVIDE GFCI CIRCUIT BREAKER

CONNECTED LOAD: A <u>5.15 kVA</u>

3) PROVIDE 25mA GFCI CIRCUIT BREAKER

//// 4 HOTS, 2 NEUT., 1 GND.

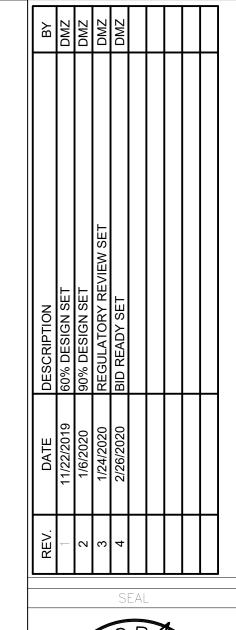
17. INSTALL NEW WALL MOUNTED SURGE PROTECTION DEVICE (SPD) IN MAIN ELECTRICAL ROOM. SPD SHALL BE ABB TG3 IN NEMA 1 ENCLOSURE WITH THE FOLLOWING OPTIONS: 200kA, WALL MOUNT, FILTER, 480Y/277V, ADVANCED MONITORING PACKAGE WITH SURGE COUNTER. LOCATE WITHIN 10 FEET OF BREAKER.

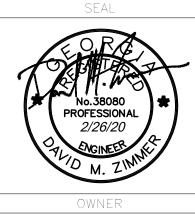
	RVICE 120/208V,3ø,4W	F	P A	NEL		L		MAIN 100A M.B		
MT	G SURFACE	A.I.C		,000				REMARKS <u>BELT PRESS CONTROL RO</u>	ОМ	
BR	ANCH CIRCUIT			PHASE				BRANCH CIRCUIT		
NON.	LOAD DESCRIPTION	LOAD(kVA) A B C		A B C		TRIP	LOAD(kVA) A B C	LOAD DESCRIPTION	O N	
1	DEWATERING EXTERIOR LIGHTS	1.60 //// 20	\neg			20	0.9	BELT PRESS RECEPTACLES	2	
3	DEWATERING EXTERIOR LIGHTS	1.44 // 20	\neg	$\downarrow \downarrow$	\bigcap	20	0.9	BELT PRESS RECEPTACLES	4	
5	DEWATERING INTERIOR LIGHTS	0.24 20		\longrightarrow	\cap	20	0.9	BELT PRESS RECEPTACLES	6	
7	DEWATERING INTERIOR LIGHTS	0.5		\rightarrow	\cap	20	0.9	BELT PRESS RECEPTACLES	8	
9	POLYMER CONTROL PNL	0.75 /// 20	\neg	\downarrow	\cap	20	0.1	LCP-DEWATERING	10	
11	BELT PRESS LOCAL PANEL	0.1 20		$\downarrow \downarrow \downarrow$	\cap	15	1.25	MIŅI SPLIT SYSTEM	12	
13	SPARE	20	\neg			•	1.25	V	14	
15	SPARE	20	\neg	\downarrow	\cap	20	0.1	HEAT TRACE CIRCUIT	16	NOTE
17	SPARE	20	\neg		\cap			SPACE	18	
19	SPARE	20	\neg					SPACE	20	
21	SPARE	. /// 20	\neg	\downarrow				SPACE	22	
23	SPARE	. 20	\neg		\bigcap			SPACE	24	
25	SPACE	· ///////	\neg		\bigcap			SPACE	26	
27	SPACE		\neg					SPACE	28	
29	SPACE		\neg					SPACE	30	
31	SPACE	· ///////	\neg					SPACE	32	
33	SPACE		\neg		\cap			SPACE	34	
35	SPACE	\//\/\/\\\.	\neg		\frown			SPACE	36	1

NOTES: 1) ROUTE 2 #12 & 1 #12 GND IN 3/4" C. TO EACH 20A, 1P CIRCUIT SHOWN 4) ROUTE THROUGH LIGHTING CONTACTOR

B <u>3.29 kVA</u>

100A MB







PROJECT MANAGER: PJJ DESIGNED BY: DMZ DRAWN BY: AP CHECKED BY: DMZ FILE NAME: FILE NAME PROJECT N0.: 273-18-210



3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

NOTE: DRAWING SCALE IS

BASED ON 24X36 SHEETS.

N.T.S.

ESAD PROJECT #20001 ESAD, LLC SUITE 430-231 PH: 678-469-5196

38

40

42

TOTAL <u>10.83</u> kVA

/////// SPACE

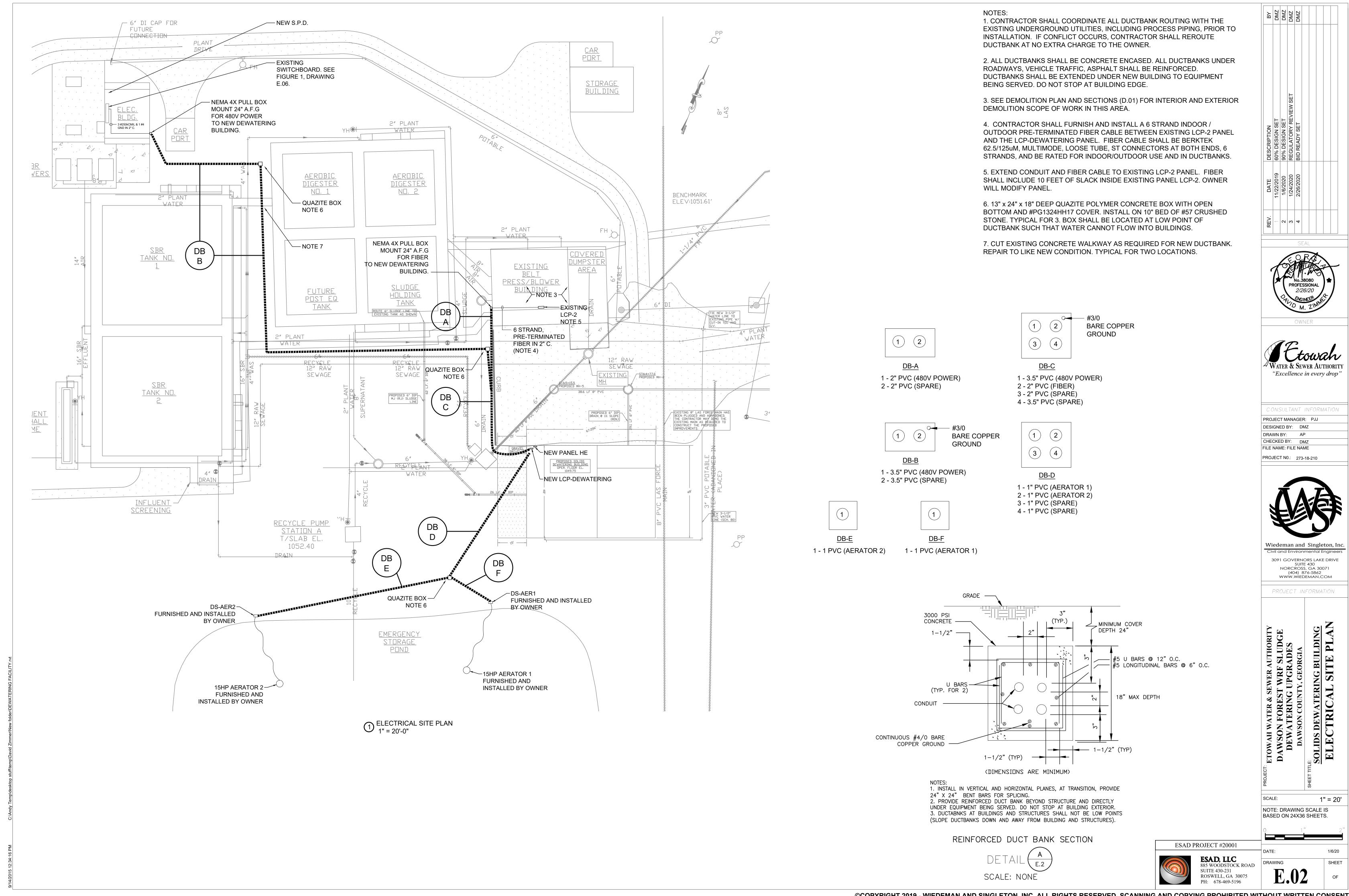
C <u>2.39 kVA</u>

//// SPACE

(P011) 3 #6 & 1 #6 GND IN 1" C.

(P013) 5 #2 IN 1.25" C.

(P012) AERATOR CABLE BY VENDOR



AND 30kVA TRANFORMER.

2. ALL DUPLEX RECEPTACLES LOCATED IN THE BELT PRESS BUILDING, UNDER THE DUMPSTER CANOPY, AND OUTSIDE SHALL BE PROVIDED WITH WEATHERPROOF ENCLOSURES AND BE RATED FOR GFCI.

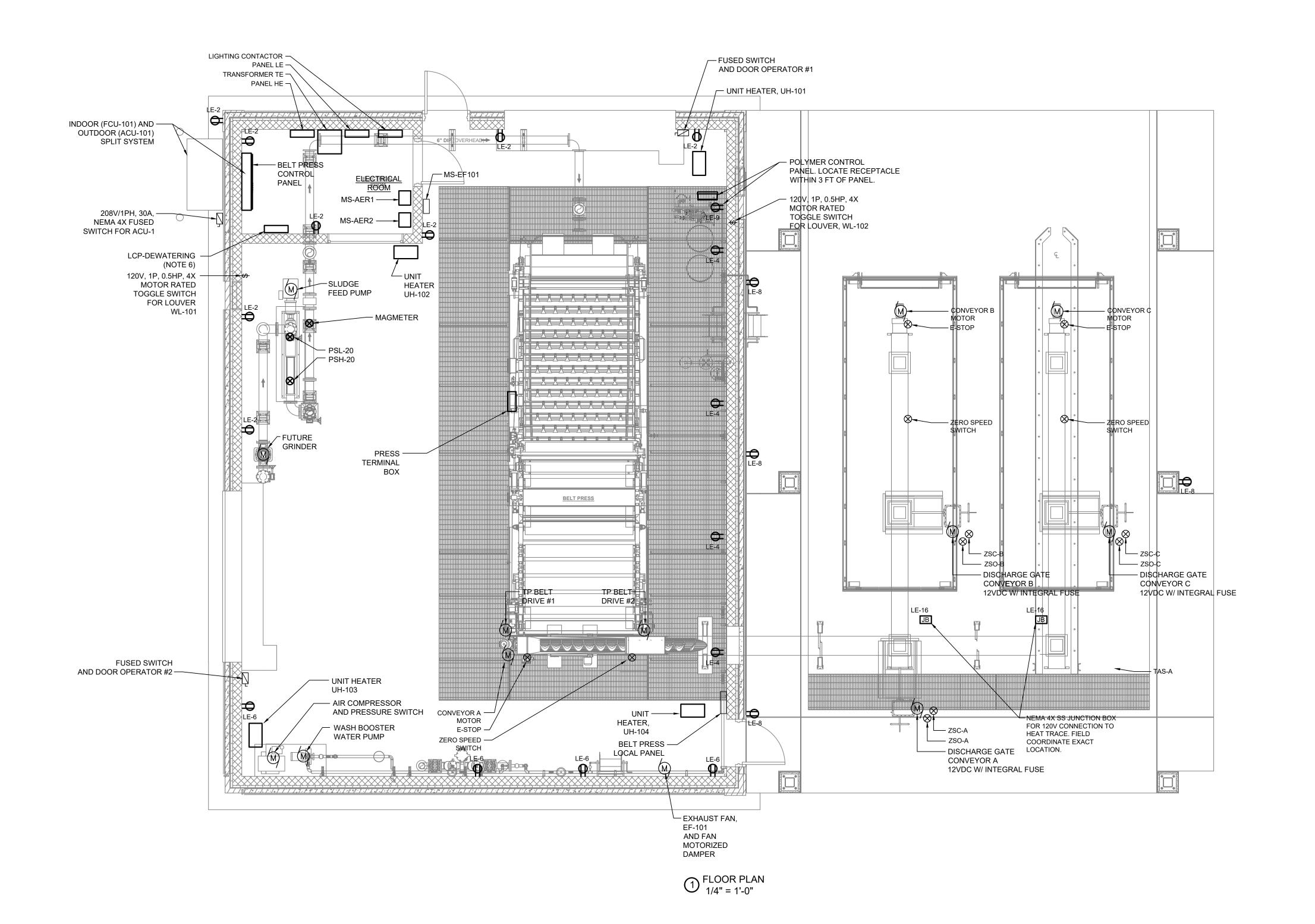
3. ALL EXPOSED CONDUIT IN BELT PRESS BUILDING AND UNDER CANOPY SHALL BE RIGID ALUMINUM.

4. CONTRACTOR SHALL INSTALL ROLL-UP DOOR OPERATORS AND SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS. TYPICAL FOR TWO DOORS.

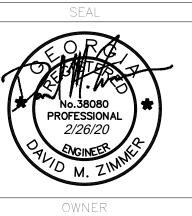
5. CONTRACTOR SHALL PROVIDE ALL INTERCONNECTING CONDUIT AND CONDUCTORS SHOWN ON THE BELT PRESS SHOP DRAWINGS.

6. THE LCP-DEWATERING CONTROL PANEL WILL BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL INSTALL OWNER PROVIDED CONTROL PANEL AND INSTALL THE FOLLOWING CABLES/CONDUITS:

- A) 120V POWER 3 #12 IN 3 /4" CONDUIT FROM PANEL LE TO LCP-DEWATERING
- B) COMMUNICATIONS CAT 6 CABLE IN 3/4" CONDUIT FROM BELT PRESS CONTROL PANEL TO LCP-DEWATERING
- C) INSTALL 2" CONDUIT FROM LCP-DEWATERING TO THE EXISTING LCP-2 LOCATED IN THE EXISTING DEWATERING BUILDING. SEE SITE PLAN.
- 7. CONTRACTOR MAY ROUTE CONDUITS UNDER GROUND. FIELD COORDINATE STUB-UPS PRIOR TO CONCRETE POUR.







"Excellence in every drop"

CONSULTANT INFORMATION PROJECT MANAGER: PJJ DESIGNED BY: DMZ DRAWN BY: AP CHECKED BY: DMZ FILE NAME: FILE NAME PROJECT N0.: 273-18-210

3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

ELECTRICAL

1/4" = 1'-0" NOTE: DRAWING SCALE IS BASED ON 24X36 SHEETS.

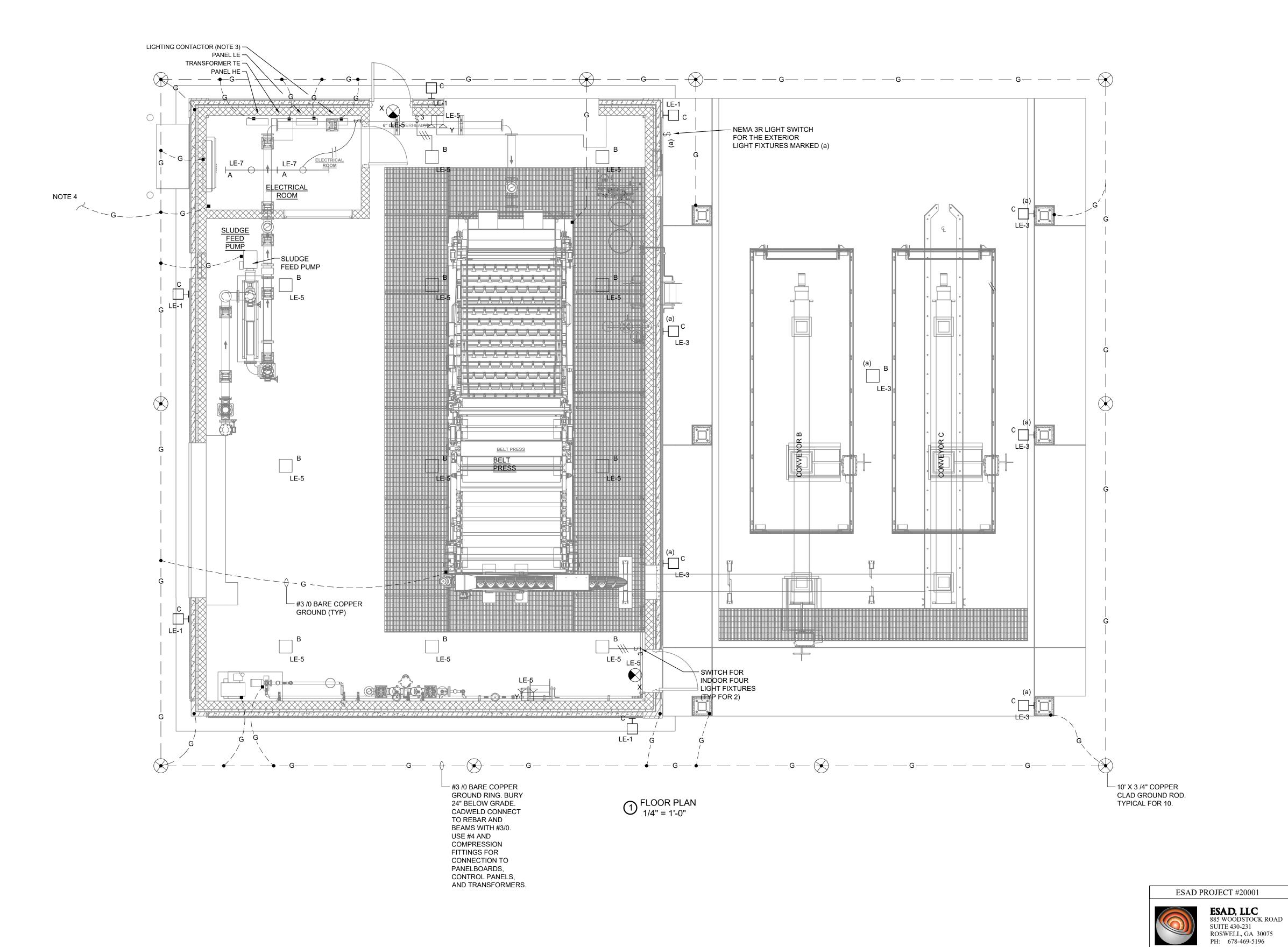
ESAD PROJECT #20001 **ESAD, LLC** 885 WOODSTOCK ROAD SUITE 430-231 ROSWELL, GA 30075

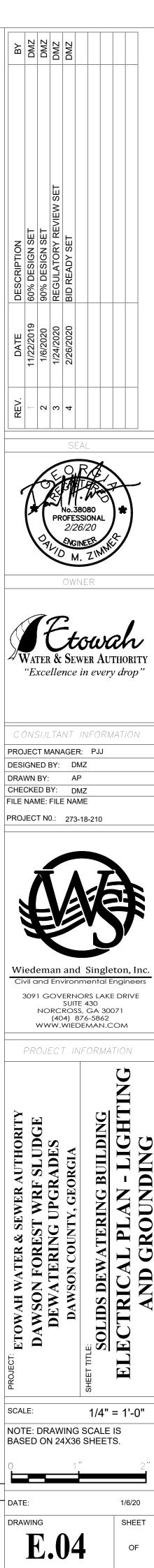
2. ALL CONDUIT IN BELT PRESS BUILDING SHALL BE RIGID ALUMINUM.

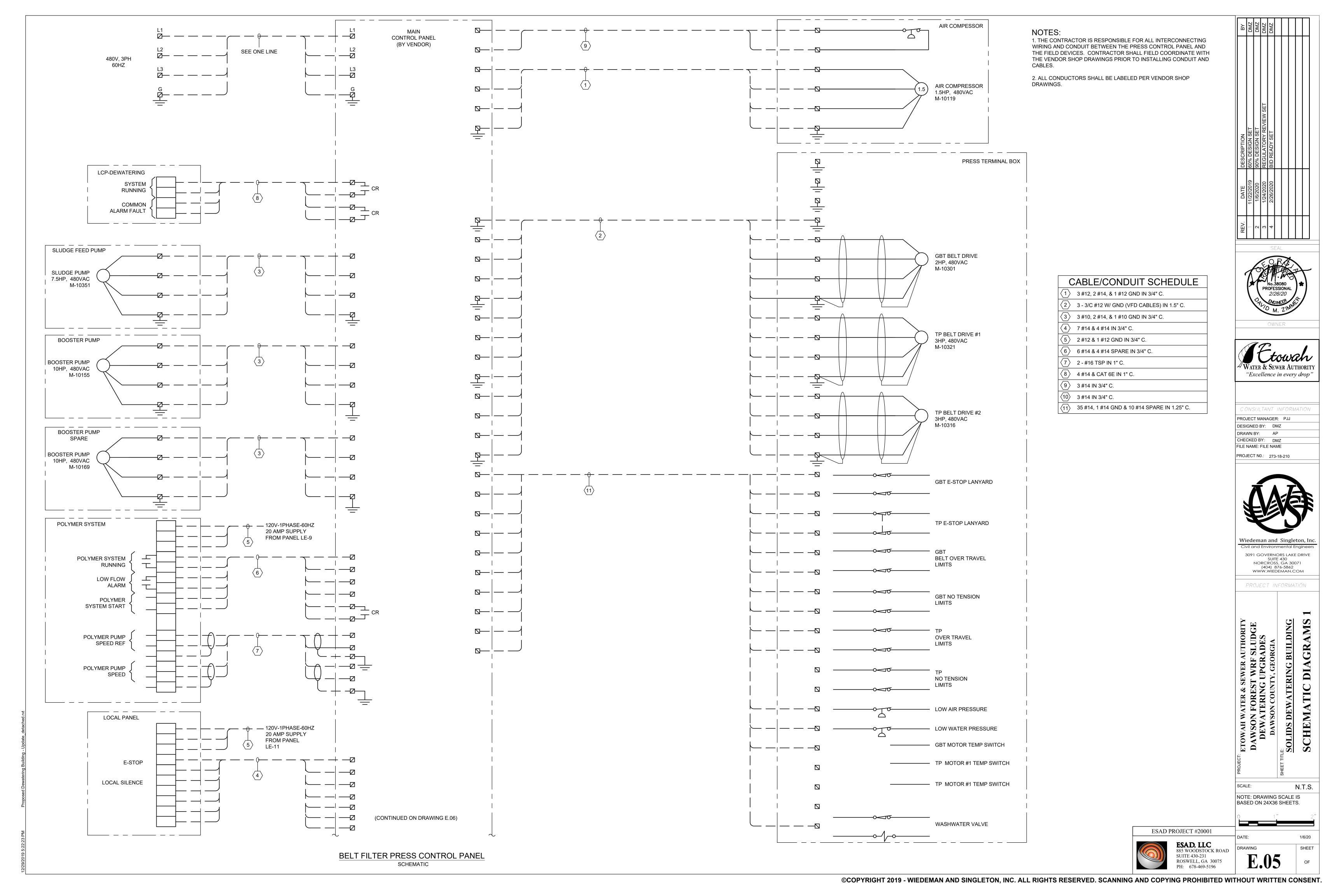
3. FURNISH AND INSTALL AN ASCO 918 LIGHTING CONTACTOR WITH 4-20A, 1 POLES FOR EXTERIOR LIGHTS, PHOTOCELL, 365 DAY DIGITAL DISPLAY TIME CLOCK, NEMA 1 ENCLOSURE WITH H-O-A SWITCH. ROUTE EXTERIOR LIGHTING CIRCUITS THROUGH CONTACTOR. INTSTALL PHOTOCELL ON WALL FACING WEST. ROUTE 3 #12 IN 3 /4" C. BETWEEN CONTACTOR AND PHOTOCELL.

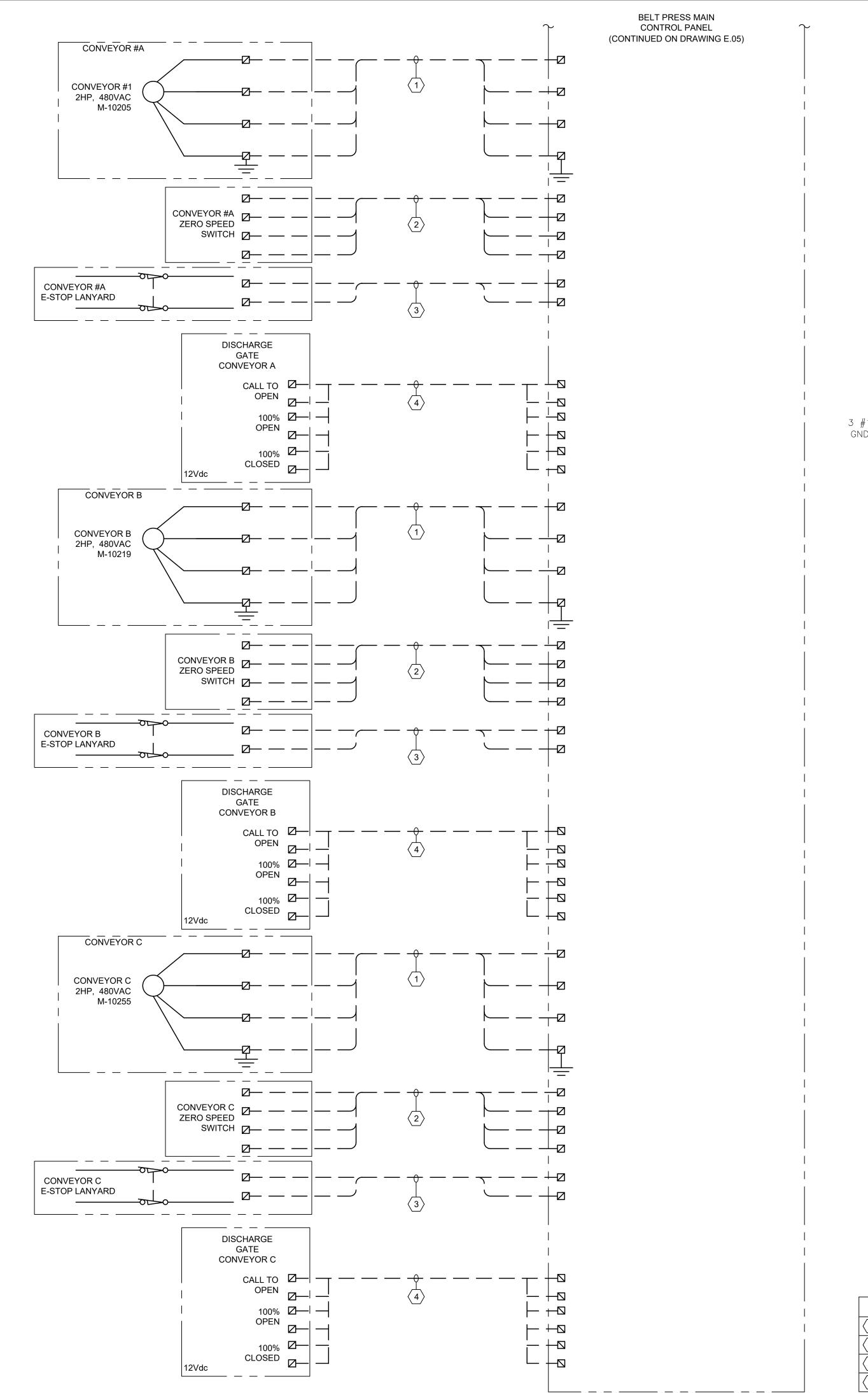
4. EXTEND #3/0 BARE COPPER CONDUCTOR IN CONCRETE ENCASED DUCTBANK AND CONNECT TO GROUND RING AROUND EXISTING ELECTRICAL BUILDING. CADWELD CONNECT GROUND CONDUCTOR TOGETHER IN EACH OF THE TWO QUAZITE BOXES.

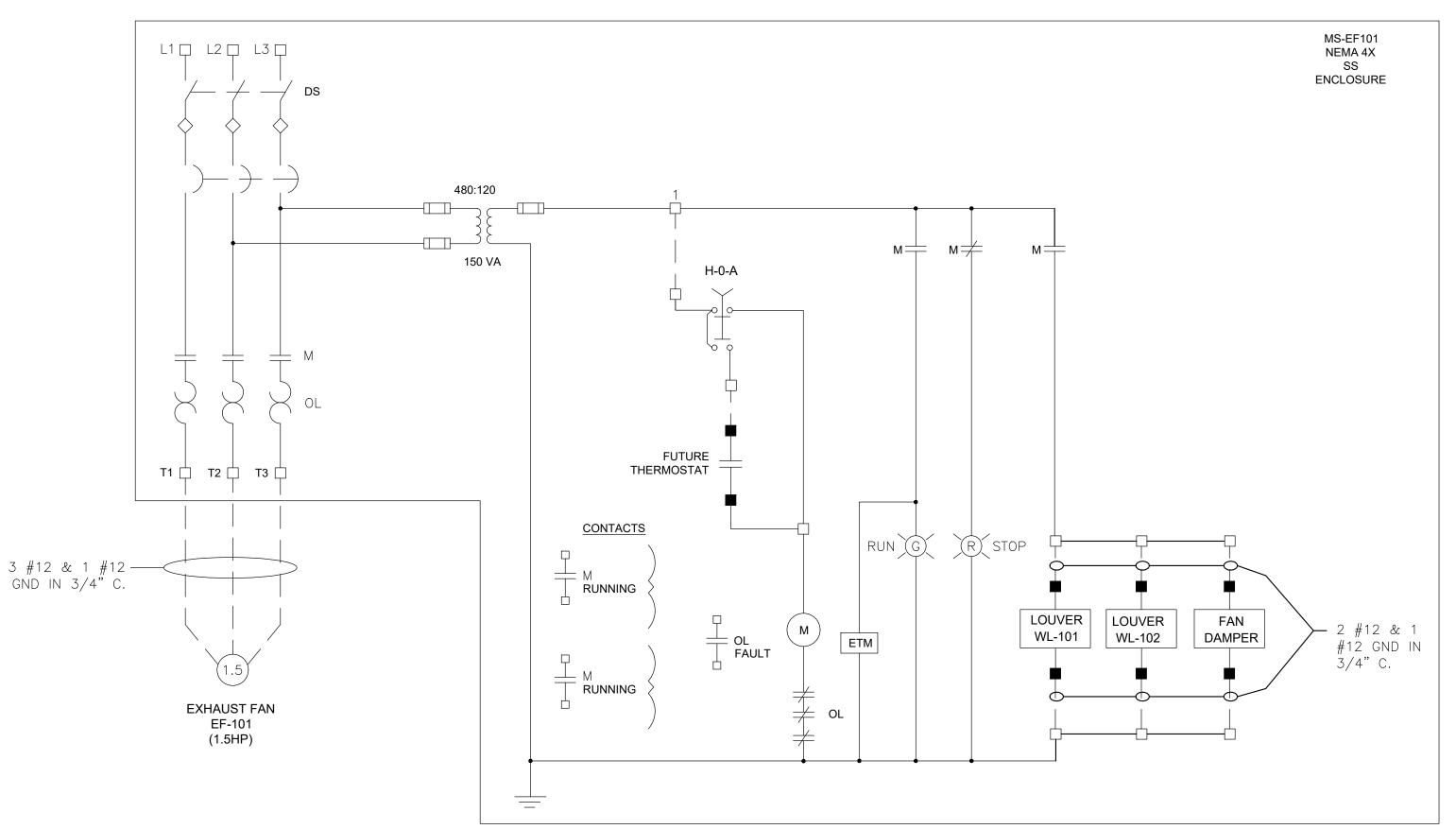
	LIGHTING	FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	MOUNTING	VOLT/PHASE	LAMP
A	INDUSTRIAL LENSED LED STRIP W/ ACRYLIC LENS	COLUMBIA CAT#LCL 4 35 ML E U	CEILING	120V/1PH	LED
В	BEACON ENDURA SERIES LED SQUARE LIGHT	BEACON ENDURA SERIES CAT#EDR/48NB-110/4K/T5QM/ UNV/BZT, SQUARE OPTICS, 4000K	16' A.F.G.	120V/1PH	LED
С	WALL MOUNTED LED FLOODLIGHT WITH PHOTOCELL	COOPER CAT#ISS-E02-LED-E1-BL3-BZ- PHOTOCELL-120V	WALL	120V/1PH	INCLUDED
X	LED EXIT SIGN, NEMA 4X, ARROW AS REQUIRED INTEGRAL BATTERY PACK	LITHONIA CAT#LV-S-120V-ELN-UM-4X	WALL	120V/1PH	INCLUDED
Υ	INDUSTRIAL GRADE EMERGENCY LIGHT W/ TWO 12V, 20W LAMPS	LITHONIA CAT#IND12300-H2012	WALL	120V/1PH	INCLUDED











EXHAUST FAN SCHEMATIC

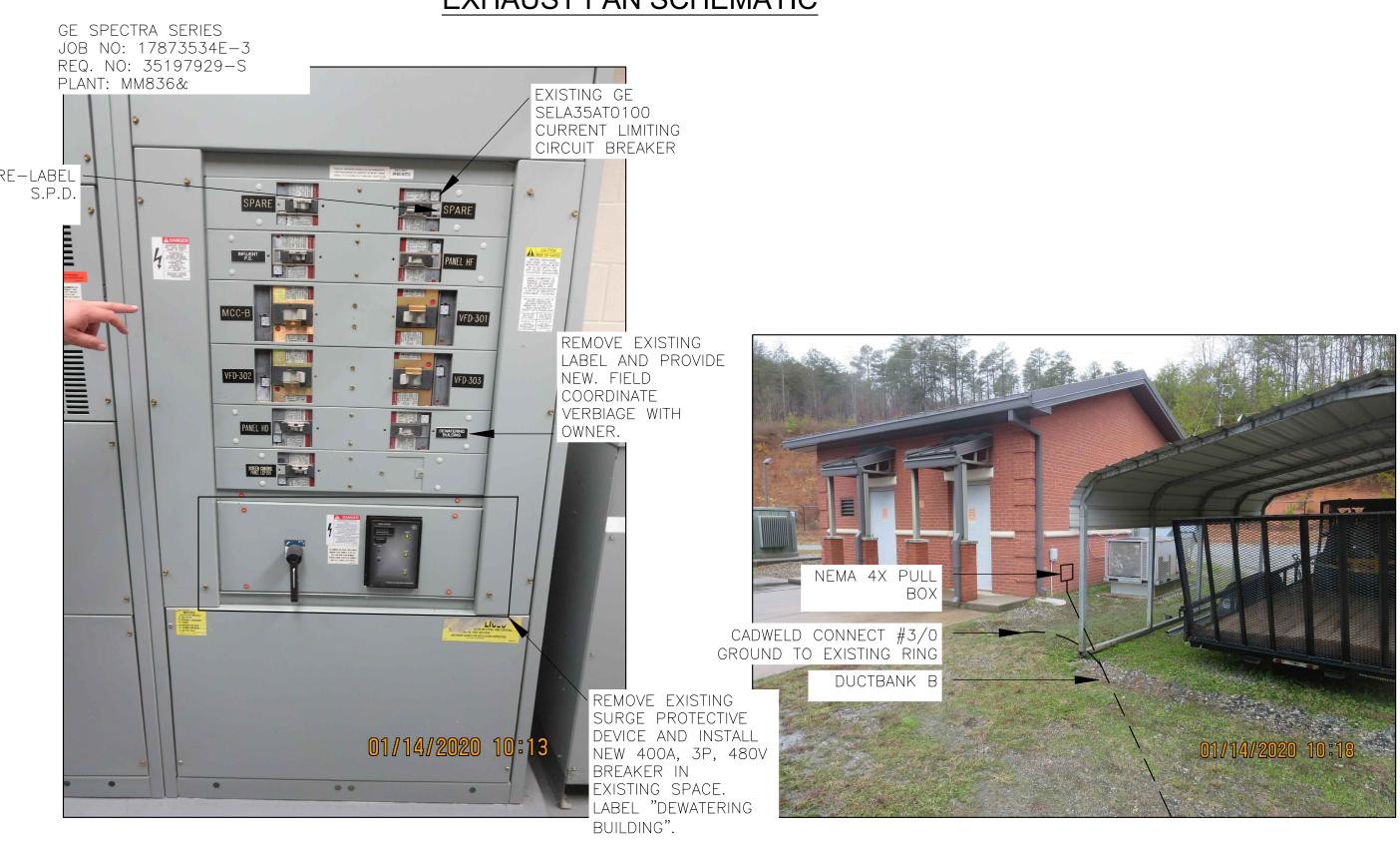
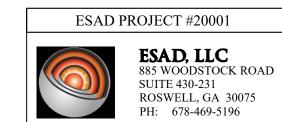
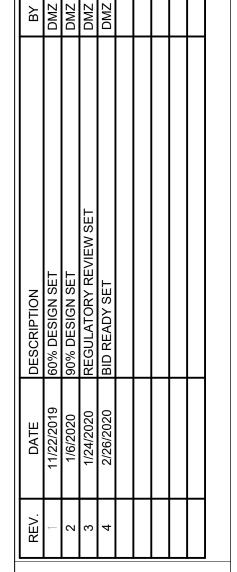


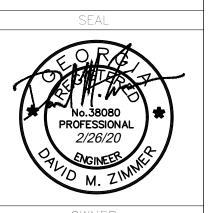
FIGURE 1: EXISTING SWITCHBOARD

FIGURE 2: EXISTING ELECTRICAL ROOM

	CABLE/CONDUIT SCHEDULE
1	3 #12, 2 #14, & 1 #12 GND IN 3/4" C.
2	4 #14 & 1 #14 GND IN 3/4" C.
3	2 #14 & 1 #14 GND IN 3/4" C.
4	6 #14 & 4 #14 SPARE IN 3/4" C.









PROJECT MANAGER: PJJ

DESIGNED BY: DMZ

DRAWN BY: AP

CHECKED BY: DMZ

FILE NAME: FILE NAME

PROJECT NO.: 273-18-210



Wiedeman and Singleton, Inc.
Civil and Environmental Engineers

3091 GOVERNORS LAKE DRIVE
SUITE 430
NORCROSS, GA 30071
(404) 876-5862
WWW.WIEDEMAN.COM

PROJECT INFORMATION

WAH WATER & SEWER AUTHORITY
WSON FOREST WRF SLUDGE
DEWATERING UPGRADES
DAWSON COUNTY, GEORGIA
IDS DEWATERING BUILDING

DAWSON DEWA DEWA DEWA DAWS SHEET TITLE:

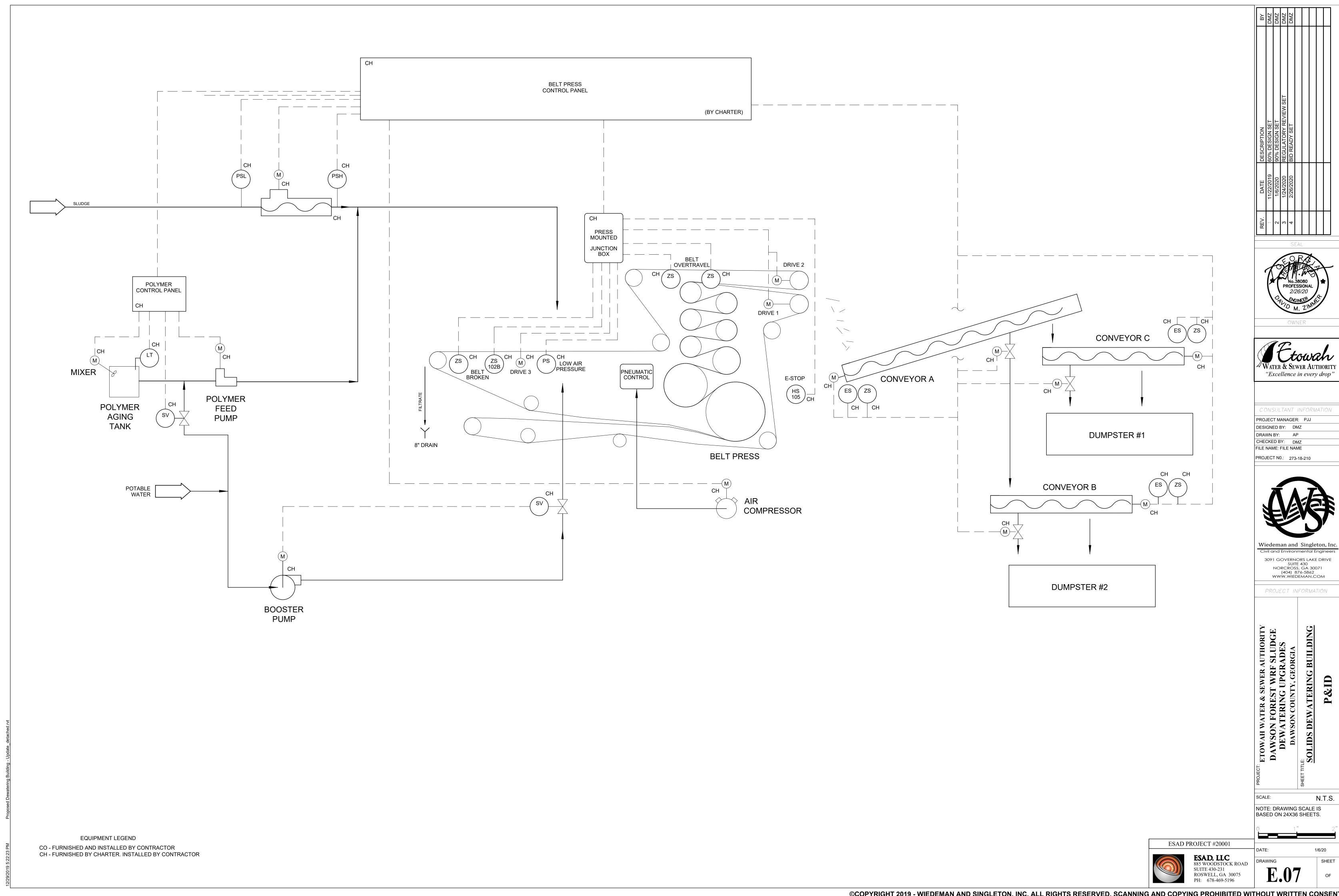
SHEET TITLE:

SOLIDS E

SCALE: N.T.S.

NOTE: DRAWING SCALE IS
BASED ON 24X36 SHEETS.

DATE:
DRAWING



LEGEND AIR DEVICE TO BE REMOVED CONTROL DAMPER - PARALLEL SUPPLY AIR RETURN OR EXHAUST AIR BACK DRAFT DAMPER OUTSIDE AIR FIRE DAMPER WITH ACCESS DOOR DOOR LOUVER (FREE AREA INDICATED IN SQ. FT.) THERMOSTAT MOTOR OPERATED DAMPER SMOKE DETECTOR **EQUIPMENT SYMBOL** FAN CONTROL SWITCH

ABBREVIATIONS

AC	AIR CONDITIONING UNIT	FLR	FLOOR	MOD	MOTOR OPERATED DAMPER
AD	ACCESS DOOR	FOB	FLAT ON BOTTOM	OA	OUTSIDE AIR
AFF	ABOVE FINISHED FLOOR	FOT	FLAT ON TOP	OAI	OUTSIDE AIR INTAKE
АН	AIR HANDLER (SPLIT REFRIG.)	FOP	FUEL OIL PUMP	OAT	OUTSIDE AIR TEMPERATURE
AHU	AIR HANDLING UNIT	FP	FIRE PUMP	OC	ON CENTER
AL	ACOUSTICAL LINING	FPM	FEET PER MINUTE	OD	OUTSIDE DIAMETER
AP	ACCESS PANEL	FTR	FINNED TUBE RADIATION	OBD	OPPOSED BALDE DAMPER
ВВ	ELECTRIC BASEBOARD RADIATION	GC	GENERAL CONTRACTOR	PBD	PARALLEL BLADE DAMPER
В	BOILER	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE
BDD	BACK DRAFT DAMPER	GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
BFC	BELOW FINISHED CEILING	HD	HAND DAMPER	TYP	TYPICAL
ВОВ	BOTTOM OF BEAM	HP	HEAT PUMP	UH	UNIT HEATER
BOD	BOTTOM OF DUCT	HV	HEATING AND VENTILATING UNIT	UON	UNLESS OTHERWISE NOTED
ВОР	BOTTOM OF PIPE	HWC	HOT WATER CONVERTER		
EF	EXHAUST FAN	MC	MECHANICAL CONTRACTOR		

			WAL	L LOUVER	R SCHEDU	LE	
	MARK	CFM	MAX. PRESS. DROP (IN W.C.)	UNIT WIDTH (IN.)	UNIT HEIGHT (IN.)	UNIT DEPTH (IN.)	MIN. FREE AREA (SQ. FT.)
Ī	WL-101	3000	0.10	24	48	4	3.45
	WL-102	3000	0.10	24	48	4	3.45

1. INSTALL LOUVERS PER MANUFACTURERS INSTRUCTIONS CORRESPONDING TO THE WALL CONSTRUCTION TYPE.

MTD MOUNTED

2. PROVIDE WITH HEAVY DUTY MOTORIZED DAMPER WITH EPOXY COATING AND 120V MOTOR OPERATOR INTERLOCKED TO OPEN WHEN THE FAN IS ENERGIZED. PROVIDE SLEEVES AS REQUIRED TO ACCOMMODATE WALL THICKNESS FOR PROPER LOUVER AND DAMPER CONNECTION.

ELECTRIC UNIT HEATER SCHEDULE											
MARK BASIS OF DESIGN MODEL CFM FAN (HP) HEATER KW ELECTRICAL REMARKS											
UH-101	Q-MARK	QWD20432	2400	1/2	20	460/3/60	1, 2				
UH-102	Q-MARK	QWD20432	2400	1/2	20	460/3/60	1, 2				
UH-103	Q-MARK	QWD20432	2400	1/2	20	460/3/60	1, 2				
UH-104	Q-MARK	QWD20432	2400	1/2	20	460/3/60	1, 2				

- 1. PROVIDE UNIT MOUNTED THERMOSTAT, CONTACTOR, AND INTEGRAL FAN CONTROL POWER TRANSFORMER. UNIT SHALL BE PROVIDED WITH NEMA 4X INTEGRAL DISCONNECT SWITCH.
- 2. PROVIDE WITH WALL MOUNTING BRACKET AND MASONRY WALL ANCHORS.

ESP EXTERNAL STATIC PRESSURE

	FAN SCHEDULE									
MARK	BASIS OF DESIGN	MODEL	CFM	POWER (HP)	ELECTRICAL	SONES	TYPE	DRIVE	ESP IN. WC	REMARKS
EF-101	GREENHECK	SE2-24-610-A15	6,000	1-1/2	460/3/60	42	PROPELLER	DIRECT	0.50	1, 2, 3

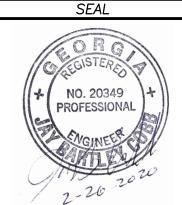
- 1. FAN TO BE PROVIDED WITH WALL HOUSING, MOTOR GUARD, MOTORIZED OUTLET SHUTTER AND BIRD SCREEN.
- 2. INTERLOCK FAN WITH WALL LOUVER(S) AS DESCRIBED IN THE WALL LOUVER SCHEDULE. LOUVER(S) TO OPEN WHEN FAN IS ENERGIZED.
- 3. FAN AND ACCESSORIES (HOUSING, SCREEN, DAMPERS, ETC.) SHALL BE PROVIDED WITH HI-PRO POLYESTER COATING. OWNER TO SELECT COLOR.

	SPLIT SYSTEM AIR CONDITIONER SCHEDULE										
		COOLING CAPA	CITY	HEATING	F	AIR COOLED CONDENSING UNIT					
MARK	TOTAL (MBH)	SENSIBLE (MBH)	MIN. SEER	HEATING CAPACITY (MBH)	SUPPLY AIR CFM	OUTSIDE AIR CFM	ELECTRICAL	MCA	ELECTRICAL	MCA	MOCP
FCU/ACU-101	9.0	7.0	20.5	4.7	400	0	208/1/60	1.0	208/1/60	12.0	15

- 1. BASIS OF DESIGN SHALL BE EQUAL TO MITSUBISHI ELECTRIC (FAN COIL UNIT SHALL BE EQUAL TO MSY-GE12NA AND CONDENSING UNIT SHALL BE EQUAL TO MUY-GE12NA)
- 2. INDOOR UNIT SHALL BE WALL MOUNTED.
- 3. UNIT SHALL BE PROVIDED WITH A FULL CHARGE OF R410A REFRIGERANT.
- 4. UNIT SHALL BE PROVIDED WITH A SINGLE POINT POWER CONNECTION AND INTERCONNECT WIRE FROM OUTDOOR UNIT TO INDOOR UNIT.

GENERAL NOTES - HVAC

- 1. ALL WORK AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS, NFPA 90A, AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- 2. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF APPARATUS. CONTRACTOR TO FIELD VERIFY ALL FIELD DIMENSIONS AND INVESTIGATE EXISTING CONDITIONS PRIOR TO FABRICATING AND LOCATING EQUIPMENT. PENETRATIONS THROUGH WALLS SHALL BE COORDINATED WITH EXIST. UTILITIES AND OBSTRUCTIONS. COORDINATE ALL ROUTING WITH LIGHTING AND ARCHITECTURAL FEATURES. NOTE THAT THE DRAWINGS REPRESENT WORK TO BE INSTALLED BY A KNOWLEDGABLE, LICENSED MECHANICAL CONTRACTOR FAMILIAR WITH THE TYPES OF SYSTEMS INDICATED AND DO NOT NECESSARILY SHOW ALL DETAILS FOR SYSTEM INSTALLATION.
- 3. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL PLANS AND SHALL FURNISH EQUIPMENT WIRED FOR VOLTAGES AS REQUIRED. CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
- 4. MOUNT THERMOSTATS AT 5'-0" UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBER SHALL NOT BE PERMITTED.
- 6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 7. CONTRACTOR SHALL PROVIDE PERMANENT EQUIPMENT NAME TAGS ATTACHED TO ALL EQUIPMENT LISTED IN THE EQUIPMENT SCHEDULES. TAGS SHALL BE TWO LAYER LAMINATED HARD PLASTIC WITH CONTRASTING LETTERS AND BACKGROUND (WHITE LETTERS ON BLACK BACKGROUND)



OWNER



CONSULTANT INFORMATION PROJECT MANAGER: PJJ DESIGNED BY:PJJ DRAWN BY: SKR/SPM CHECKED BY: AAA FILENAME: NOTES.dwg

PROJECT NO.: 273-18-210

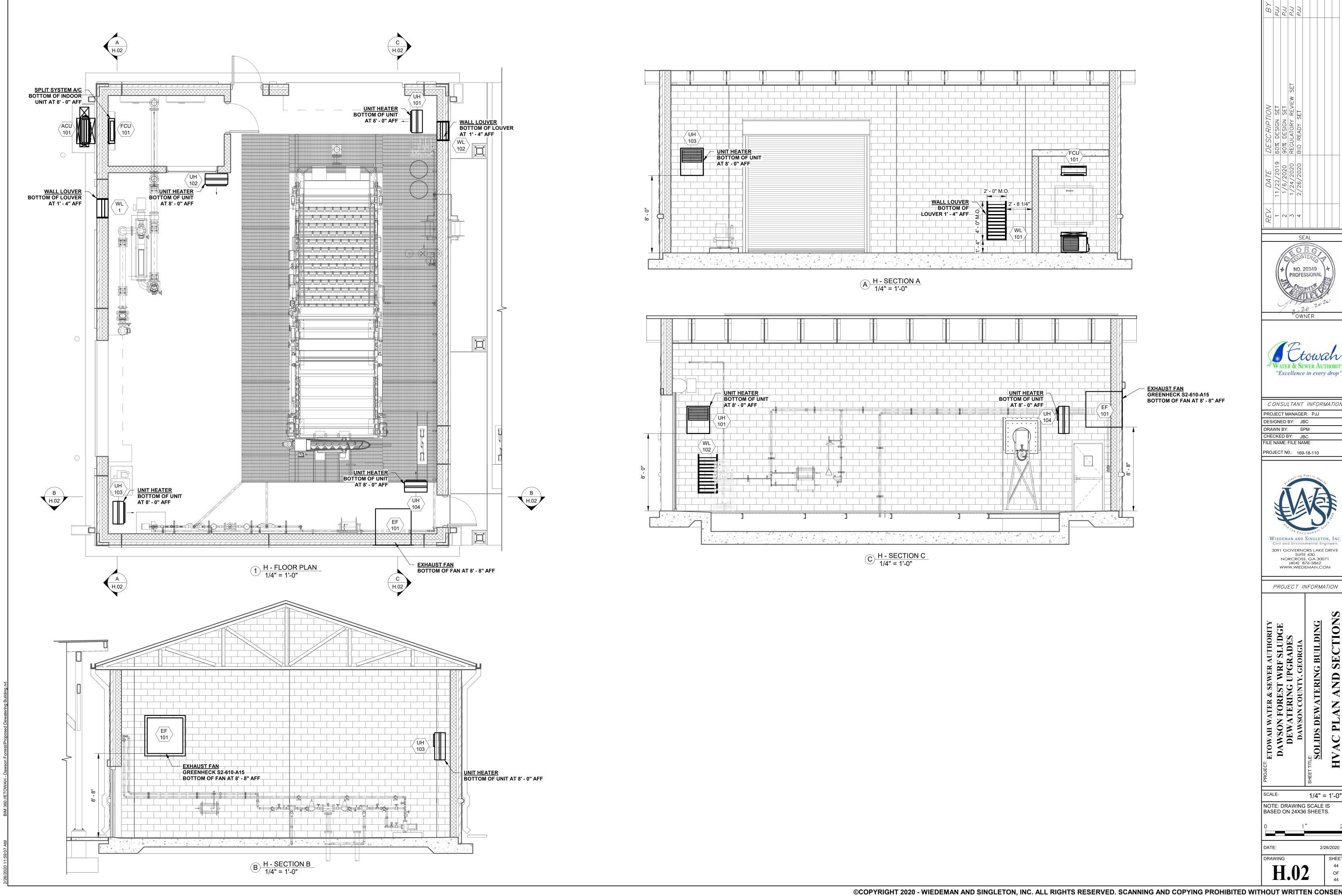


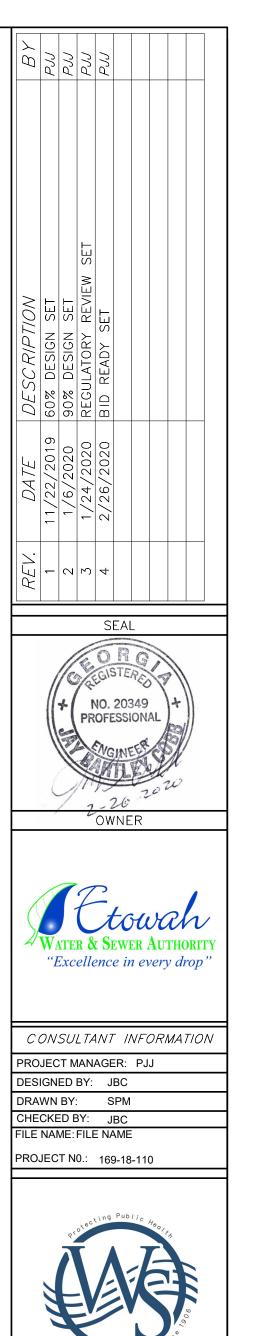
3091 GOVERNORS LAKE DRIVE SUITE 430 NORCROSS, GA 30071 (404) 876-5862 WWW.WIEDEMAN.COM

PROJECT INFORMATION

N.T.S.

NOTE: DRAWING SCALE IS BASED ON 24x36 SHEETS. 11x17 IS 212%± OF SCALE





SOLIDS DEWATERING BUILDING

1/4" = 1'-0"

2/26/2020

OF