CONTRACT DOCUMENTS FOR CONSTRUCTION OF

SOUTH FAYETTE WATER TREATMENT PLANT CHLORINE DIOXIDE GENERATION SYSTEM



PREPARED FOR

FAYETTE COUNTY WATER SYSTEM FAYETTE COUNTY, GEORGIA

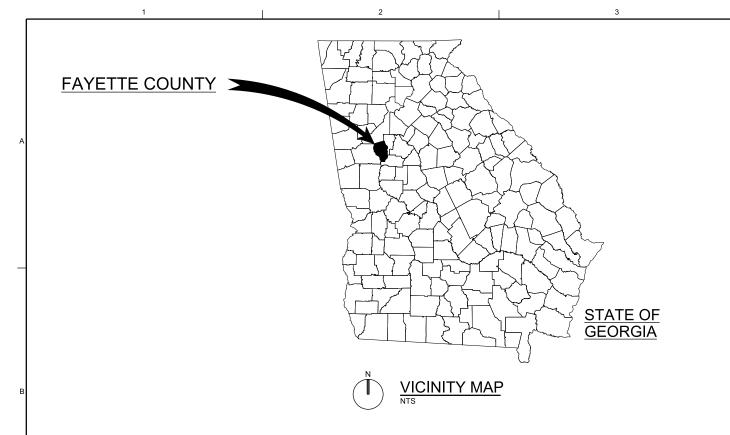
VOLUME 2 OF 2 DRAWINGS

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BID DOCUMENTS

Project No. 698133 AUGUST 2019



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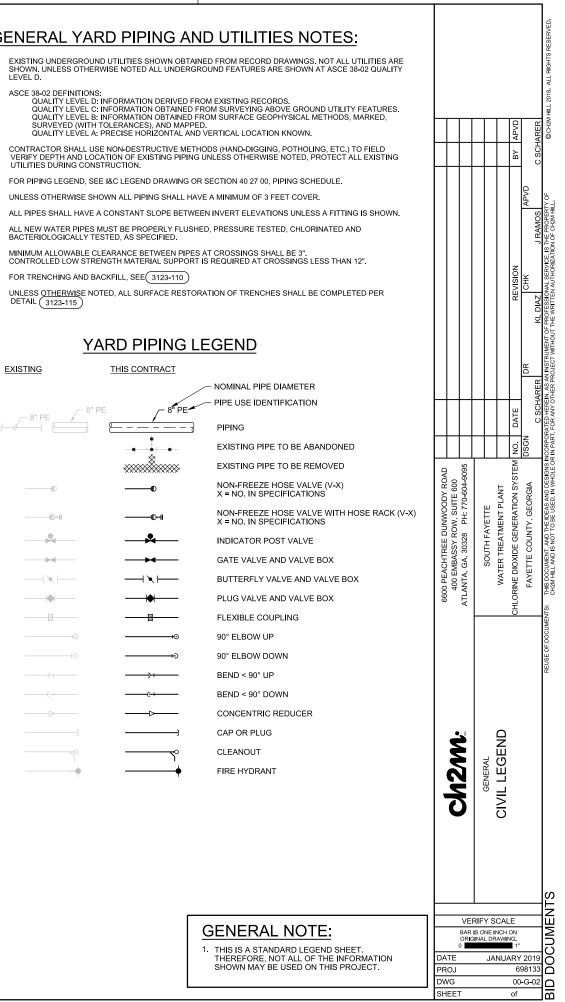
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S AND CODE DATA ATIONS AND SECTION NATION PLAN DNS S ION SYSTEM AND BULK STORAGE OVE ION SYSTEM - PLAN AND SECTIONS CTIONS ISOMETRIC ION SYSTEM AND BULK STORAGE PAR ION SYSTEM AND BULK STORAGE PAR AN	TIAL PLAN & ONE-LINE DIAGRAM TIAL PLAN			DR REVISION NW KL DIAZ L JESTER
AILS AILS		6600 PEACHTREE DUNWOODY ROAD 400 EMBASSY ROW, SUITE 600 ATLANTA, GA, 30328 PH: 770-604-9095	SOUTH FAYETTE WATER TREATMENT PLANT	CHLORINE DIOXIDE GENERATION SYSTEM NO. DATE REVISION REVISION FAVETTE COUNTY, GEORGIA DSGN DR KL DIAZ CHK LJAZ LJESTER
		ch2m:	GENERAL VICINITY MAP AND	
E: 00-G-01_668301.dgn	PLOT DATE: 12/10/2018	DATE PROJ DWG SHEET		

GENERAL SITE NOTES:	<u>CI</u>	VIL LEGEND		GE
1. EXISTING BASE MAPPING SHOWN CONSIST OF COMPILATION OF THE FOLLOWING:	EXISTING	THIS CONTRACT		1. E
- TOPOGRAPHY DRAWINGS FROM MALLET AND ASSOCIATES, PERFORMED IN OCTOBER 1998, - SITE VISITS OBSERVATIONS AND RECORD DRAWINGS EXISTING CONDITIONS MAY VARY TO THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING	× 157.7	⊗ 158.5	SPOT ELEVATION	L
CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.	155		CONTOUR LINE	/
2. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED. EXCEPTION TO THIS ARE THE DEMOLITION		3:1	EMBANKMENT AND SLOPE	
PLANS THAT SHOW EXISTING CONDITION BOLD OR HEAVY-LINED. 3. HORIZONTAL DATUM: NAD 83	<u>></u>		DRAINAGEWAY OR DITCH	2. (
VERTICAL DATUM: NAVD 88 COORDINATE SYSTEM: STATE PLANE - GEORGIA WEST, ZONE 1002, SURVEY FOOT		CB OR CB	CATCH BASIN OR INLET	2.
DIMENSIONS SHOWN ARE IN U.S. SURVEY FEET.			TRENCH DRAIN	3.
 MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE. 	0		SIGN	4.
5. ALL ELEVATIONS SHOWN REFER TO NAVD 88. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.		D OR S	ELECTRICAL MANHOLE	5. 6.
5. CONTRACTOR SHALL PROVIDE AND MAINTAIN PLANT ROADS ACCESSIBLE AT ALL TIMES. TEMPORARY CLOSURE OF	ш _е	Ш	ELECTRIC HANDHOLE	
PLANT ROAD SHALL BE COORDINATED WITH PLANT OPERATOR. 7. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT	0	•	POST OR GUARD POST	7.
CONTROL MEASURES AND PRACTICES PRIOR TO, AND CONCURRENT WITH ANY LAND-DISTURBING ACTIVITIES. SEE EROSION CONTROL DRAWINGS FOR FURTHER NOTES AND DETAILS.	\rightarrow	- 	GUY ANCHOR	8.
3. ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH COMMON BERMUDA GRASS	<u>,</u>	, 	FIRE HYDRANT	9.
	-0-	⊤		
 CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. 	÷	æ		
10. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE.		💮 В1	SOIL BORING	
		$\hat{\Delta}$	SURVEY CONTROL POINT OR	Ē
		~~~~		
FAYETTE COUNTY NOTES:	( *** & &	( **** \\ (~)	BRUSH/TREE LINE	6
1. ALL IMPROVEMENTS TO CONFORM WITH FAYETTE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS,	₹	t::៖ 米 t:::	TREE PROPERTY LINE	
LATEST EDITION.			- CENTER LINE, BUILDING, ROAD, ETC.	
2. NO STRUCTURES, FENCES OR OTHER OBSTRUCTIONS MAY BE LOCATED WITHIN A DRAINAGE OR ACCESS EASEMENT WITHOUT PRIOR APPROVAL BY THE FAYETTE COUNTY DEPARTMENT OF ENGINEERING.			- STAGING OR WORK AREA LIMITS	
3. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY FAYETTE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLANDS AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.		N 1000.00 E 1000.00	STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES	
4. APPROVAL OF THESE PLANS BY FAYETTE COUNTY IS SUBJECT TO, AND CONTINGENT UPON THE APPLICANT OBTAINING ANY AND ALL NECESSARY APPROVALS FROM ANY AND ALL APPLICABLE AGENCIES INCLUDING,	$\times$ OR $\rightarrow$	·····	DEMOLITION (SEE NOTE 1 ON DEMO PLANS)	
BUT NOT LIMITED TO THE UNITED STATES ARMY CORPS OF ENGINEERS, THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, THE USDA-NRCS, GEORGIA DEPARTMENT OF NATURAL RESOURCES, GEORGIA ENVIRONMENTAL PROTECTION DIVISION, AND THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.			STRUCTURE, BUILDING OR FACILITY	
5. MAXIMUM CUT SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL. CONTINUOUS FILL SLOPES TEN (10) FEET IN HEIGHT OR LESS MAY BE 2 HORIZONTAL TO 1 VERTICAL. ALL CONTINUOUS FILL SLOPES THAT EXCEED TEN (10) FEET IN HEIGHT MUST BE 3 HORIZONTAL TO 1 VERTICAL UNLESS: (A) A MECHANICALLY ENGINEERING STABILIZED SLOPE IS APPROVED BY THE FAVETTE COUNTY DIRECTOR OF ENGINEERING; OR (B) THE DESIGNED AND			ASPHALT CONCRETE PAVEMENT	
CONSTRUCTED SLOPES ARE CERTIFIED BY A REGISTERED ENGINEER EXPERIENCED IN GEOTECHNICAL ENGINEERING AND LICENSED IN THE STATE OF GEORGIA.	<i>a a a</i>		RESURFACED ASPHALT CONC. PAVEMENT	
<ol> <li>ALL UNDISTURBED BUFFERS SHALL BE IDENTIFIED WITH ORANGE, FOUR-FOOT TREE-SAVE FENCING PRIOR TO ANY LAND DISTURBANCE (UDC SEC. 18-10.1)</li> </ol>			CONCRETE PAVEMENT	
			CONCRETE SIDEWALK	
		0018550 0018550	GRAVEL ROAD	
			GRAVEL SURFACING	
			CURB AND GUTTER	
		~<	CONCRETE VALLEY GUTTER	
	×	×××	CHAIN LINK FENCE	
			CULVERT	
			CHAIN LINK FENCE GATE	
		222222	RIPRAP STONE/ ROCK CHECKDAM	
			GRASS (SOD)	
		A14. 1119. 1119. 1		

- BACTERIOLOGICALLY TESTED, AS SPECIFIED.
- FOR TRENCHING AND BACKFILL, SEE 3123-110

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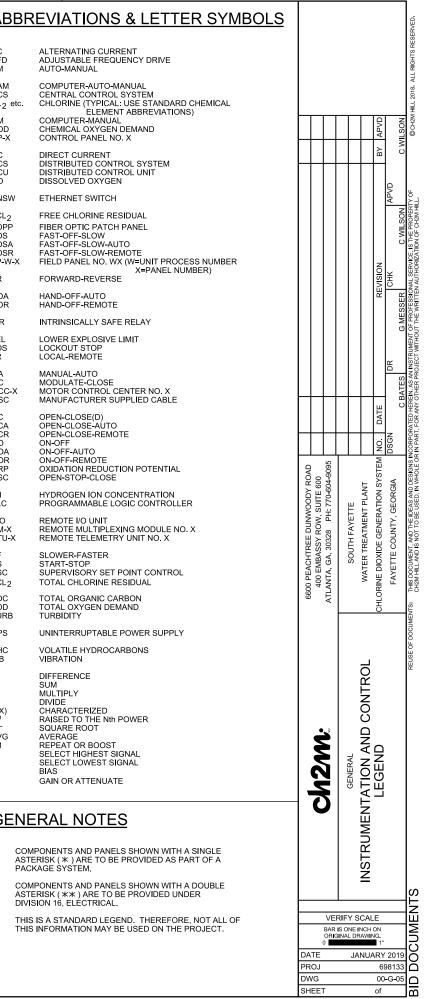
1 2	3 4	5
DESIGN CRITERIA	FORMWORK, SHORING, AND BRACING	<u>CAST IN PLA</u>
<ol> <li>APPLICABLE CODE: 2012 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF GEORGIA IN 20 2014, 2015, 2017 AND 2018 AND ALL OTHER APPLICABLE LOCAL AGENCIES.</li> <li>REFER TO THE DRAWINGS FOR ADDITIONAL AND SPECIFIC STRUCTURE LOADINGS AND REQUIREMENTS.</li> <li>ALL LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS SPECIFICALLY NOTED OTHERWISE.</li> <li>DEAD LOADS:         <ul> <li>A. SELF WEIGHT</li> <li>B. COLLATERAL</li> <li>B. ROOF LOADS:</li> <li>GROUND SNOW LOAD, Pg</li> <li>SLO PSF</li> </ul> </li> <li>SNOW EXPOSURE FACTOR, Ce</li> <li>1.2</li> </ol>	<ul> <li>DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.</li> <li>2. TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED 80 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.</li> <li>3. "BURY"BARS OR "CARRIER"BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN ELEVATED SLABS LESS THAN 12 INCHES THICK.</li> </ul>	28-DAY COMPRESSIVE STRENGTHS (TO M UNLESS NOTED OTHERWISE: CONCRETE CURBS AND SIDEWALK3     DESIGN STRENGTHS ARE SAME AS 28-DA     CONTINUOUS WATERSTOP AS SPECIFIED STRUCTURES, CHANNELS, AND BELOW G     CONSTRUCTION JOINTS INDICATED ARE: JOINTS, SUBJECT TO SPECIFIED REQUIRE BE SUBMITTED FOR REVIEW BY ENGINEE     SUBMITTED FOR REVIEW BY ENGINEE     SOUGHEN AND CLEAN CONSTRUCTION J CONCRETE.     COORDINATE PLACEMENT OF OPENINGS
SLOPE FACTOR, Cs = 1.0 IMPORTANCE FACTOR, I = 1.2 MINIMUM FLAT ROOF SNOW LOAD, Pf = 6.0 PSF 6. LIVE LOADS: = 300 PSF 7. WIND LOADS: ASCE 7 METHOD BASIC WIND SPEED (3-SECOND GUST) Vult = 120 MPH	CONCRETE REINFORCING         1. REINFORCING STEEL: TYPICAL: WELDED:       ASTM A615, GRADE 60 ASTM A706, GRADE 60 (WELDING IS ONLY PERMITTED WITH WRITEN PERMISSION FROM ENGINEER)         2. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".	INSERTS PRIOR TO PLACEMENT OF CONC     NO ALUMINUM CONDUIT OR PRODUCTS O CONCRETE SHALL BE EMBEDDED IN THE     B. DO NOT PLACE CONDUIT PARALLEL TO B DRAWINGS.     PATCH FORM TIE HOLES IN ACCORDANCE
Vaid = 120 MPH Vasd = 93 MPH EXPOSURE CATEGORY = C INTERNAL PRESSURE COEFFICIENT, GCpi = BY MANUFACTURER RISK CATEGORY = IV 3. SEISMIC LOADS:	MINIMUM REINFORCING FOR CONCRETE WALLS AND SLABS SHALL BE AS FOLLOWS: <u>THICKNESS REINF EACH WAY LOCATION</u> 6" #4@12" CENTERED     8" #5@12" CENTERED     10" #4@12" EACH FACE     12" #5@12" EACH FACE     PROVIDE LARGER SIZES AND MORE REINFORCING IN SECTIONS OF CONCRETE WHERE REQUIRED BY THE	DEFERRED 1. DEFERRED SUBMITTALS ARE THOSE POF PERMIT APPLICATION AND WHICH ARE TO TO INSTALLATION OF THAT PORTION OF
MAPPED SPECTRAL RESPONSE ACCELERATIONS       = 0.161 g         S1       = 0.084 g         DESIGN SPECTRAL RESPONSE ACCELERATIONS       = 0.171 g         SDS       = 0.135 g         SITE CLASS (ASSUMED)       = D         RISK CATEGORY       = IV         IMPORTANCE FACTOR, Ie       = 1.5         SEISMIC DESIGN CATEGORY       = D	DETAILS ON THE DRAWINGS OR BY THE SPECIFICATIONS.         4. CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE: WHEN CAST AGAINST EARTH: 3" OTHER CONCRETE SURFACES: 2"         5. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL 0330-003. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.         6. 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS.	THE ENGINEER. WHERE DEFERRED SUBMITTALS INCLUD CERTIFICATION OF COMPONENTS THAT F MEET CODE REQUIREMENTS, THE DEFER THE APPROPRIATE TABLES IN THE PROJE ALREADY IDENTIFIED. THE FOLLOWING IS A LIST OF DEFERRED EXPECTED TO CONTAIN STRUCTURAL CA TO MEET BUILDING PERMITTING REQUIRE INDICATED STRUCTURAL ELEMENT, EQUI
GENERAL INFORMATION     FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS	<ol> <li>WALL CORNER AND WALL INTERSECTION REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED IN DETAIL 0330-003.</li> <li>WALL FOOTING CORNER AND INTERSECTION REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING</li> </ol>	THE CONTRACTOR SHALL SUBMIT THE R REVIEW AND ACCEPTANCE BY THE ENGI COMMENT FORM, ALONG WITH THE COM CONTRACTOR TO THE PERMITTING AGEN
<ol> <li>DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).</li> <li>DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.</li> <li>VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.</li> <li>FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS.</li> </ol>	<ul> <li>REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS.</li> <li>9. REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.</li> </ul>	SPECIFICATION SECTION         CODE REQUIR           01 88 15         10 73 00           40 10 15         10           43 40 01         F
<ul> <li>COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.</li> <li>DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.</li> <li>VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.</li> </ul>	SPACING = 3"         TOP BAR 2         1'-4"         1'-8"         2'-1"         3'-0"         5'-2"         6'-8"         8'-6"         10'-10"         '13'-4"           OTHER BAR         1'-4"         1'-4"         1'-8"         2'-4"         4'-0"         5'-2"         6'-7"         8'-4"         10'-3"	43 40 02 FIBER ANY EQUIPMI OTHER SPECIFICATIO
INSPECTION AND TESTING	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
<ol> <li>SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY TH BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.</li> <li>SPECIFIED CONCRETE AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED.</li> <li>SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE</li> </ol>	E EMBEDMENT LENGTH SPACING = 3" TOP BAR 2 1'-0" 1'-3" 1'-8" 2'-4" 4'-0" 5'-2" 6'-7" 8'-4" 10'-3" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-10" 3'-1" 4'-0" 5'-1" 6'-5" 7'-11" SPACING = 4" TOP BAR 1'-0" 1'-0" 1'-3" 1'-7" 1'-10" 3'-0" 3'-11" 4'-11" 6'-3" 7'-8" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" 3'-0" 3'-10" 4'-10" 5'-11"	
<ul> <li>PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.</li> <li>SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH I SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AS NOTED IN SECTION 01 33 SPECIAL INSPECTION, OBSERVATION AND TESTING.</li> </ul>	45 1. LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2". 2. TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN	
<ol> <li>REFER TO THE FOLLOWING: GEOTECHNICAL REPORT BY MALLETT AND ASSOCIATES DATED 1997. TECHNICAL MEMORANDUM BY CH2M HILL DATED MARCH 14, 2014.</li> <li>EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE AND DAMAGE TO ADJACENT EXISTING STRUCTURES, ROADS, UTILITIES, ETC.</li> </ol>	<ol> <li>12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.</li> <li>WHERE 3000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16 PERCENT. WHERE 3500 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 7 PERCENT.</li> </ol>	
<ol> <li>FOUNDATION SLABS, SLABS-ON-GRADE AND WALL AND COLUMN FOUNDATIONS SPECIFICALLY NOTED TO BE ON FILL SHALL BEAR ON 6 INCHES OF COMPACTED GRANULAR FILL.</li> <li>FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR QUALIFIED DESIGNEE PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL.</li> <li>NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS</li> </ol>		
<ol> <li>NO BACKFILL SHALL BE PLACED BEHIND CAVILLEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.</li> <li>SOIL DESIGN PARAMETERS:         <ul> <li>A. NET ALLOWABLE SOIL BEARING PRESSURE:</li> <li>2000 PSF</li> <li>B. MODULUS OF SUBGRADE REACTION:</li> <li>125 PCI</li> </ul> </li> </ol>		
7. FROST DEPTH: 8 IN		

IN PLACE CONCRETE				RVED.
TRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS): HERWISE: 4500 PSI AND SIDEWALKS: 4500 PSI				OCH2M HILL 2018. ALL RIGHTS RESERVED
E SAME AS 28-DAY COMPRESSIVE STRENGTHS. DP AS SPECIFIED SHALL BE INSTALLED IN CONSTRUCTION JOINTS OF HYDRAULIC				8. ALL I
S, AND BELOW GRADE STRUCTURES, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.				ILL 2014
INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF COIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL IEW BY ENGINEER.		APVD	EVERSON	© CH2M H
ONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT		B	7 2	
IT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND EMENT OF CONCRETE.			1	
OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE IBEDDED IN THE CONCRETE.			APVD	TV GF
PARALLEL TO BEAM OR COLUMN REINFORCEMENT UNLESS SPECIFICALLY INDICATED IN			C ANSON	ROPER CH2M H
IN ACCORDANCE WITH DETAIL 0310-051.			CAN	E, IS THE P ATION OF (
ERRED SUBMITTALS		REVISION	CHK	AL SERVIC AUTHORIZ
ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF ID WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR AT PORTION OF THE WORK OR ARE REQUIRED TO BE SUBMITTED FOR REVIEW ONLY BY		RE L	THORNTON	F PROFESSION THE WRITTEN
VITTALS INCLUDE ADDITIONAL MATERIALS, INSTALLATION, ANCHORAGE, OR PONENTS THAT REQUIRE SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATION TO INTS, THE DEFERRED SUBMITTAL SHALL INCLUDE SPECIFIC LINE ITEMS TO BE ADDED TO ES IN THE PROJECT'S STATEMENT OF SPECIAL INSPECTIONS PLAN IF THEY ARE NOT			DR LT	THIS DOCUMENT, AND THE IDEAS AND DESIONS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROFERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.
T OF DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1 OF 2012 IBC THAT ARE				AS AN
STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW AITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE . ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, L SUBMIT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR		DATE	D EVERSON	ED HEREIN R ANY OTH
CE BY THE ENGINEER. ADDITIONALLY, ACCEPTANCE INDICATED ON THE ENGINEER'S 3 WITH THE COMPLETED, FINAL SUBMITTAL SHALL THEN BE SUBMITTED BY THE 2FMITTING AGENCY AND APPROVED PRIOR TO INSTALLATION OF THESE ITEMS.				PORAT ART, FC
			-	S INCOF
CODE REQUIRED DEFERRED SUBMITTALS FOR REVIEW BY	6600 PEACHTREE DUNWOODY ROAD 400 EMBASSY ROW, SUITE 600 11ANTA, GA, 30328 PH: 770-604-9095	SOUTH FAYETTE WATER TREATMENT PLANT HLORINE DIOXIDE GENERATION SYSTEM	4	NHOLE
PERMITTING AGENCY ANCHORAGE AND BRACING	0 PEACHTREE DUNWOODY RO 400 EMBASSY ROW, SUITE 600 ANTA, GA, 30328 PH: 770-604-6	SOUTH FAYETTE WATER TREATMENT PLANT VE DIOXIDE GENERATION SY	FAYETTE COUNTY, GEORGIA	AND D
PROTECTIVE COVERS	WOO SUI	SOUTH FAYETTE ER TREATMENT P OXIDE GENERATI	GEO.	IDEAS BE USE
PIPING SUPPORT SYSTEMS POLYETHYLENE STORAGE TANK	BUN 30W 8 P	FAYE TME ENE	NTY	1 TO
FIBERGLASS REINFORCED PLASTIC TANK	IREE DI SSY RC 30328	REA I HTU	COL	IT, ANI IS NC
ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR	CHTI MBAS GA, :	SOL ER T	TTE	L AND
ANCHORAGE SYSTEM CALCULATIONS	6600 PEA 400 EN ATLANTA,	VAT VE D	AYE	S DOC
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	BAR ORIG 0	IS ONE INCH ON INAL DRAWING.		DOCUMENTS
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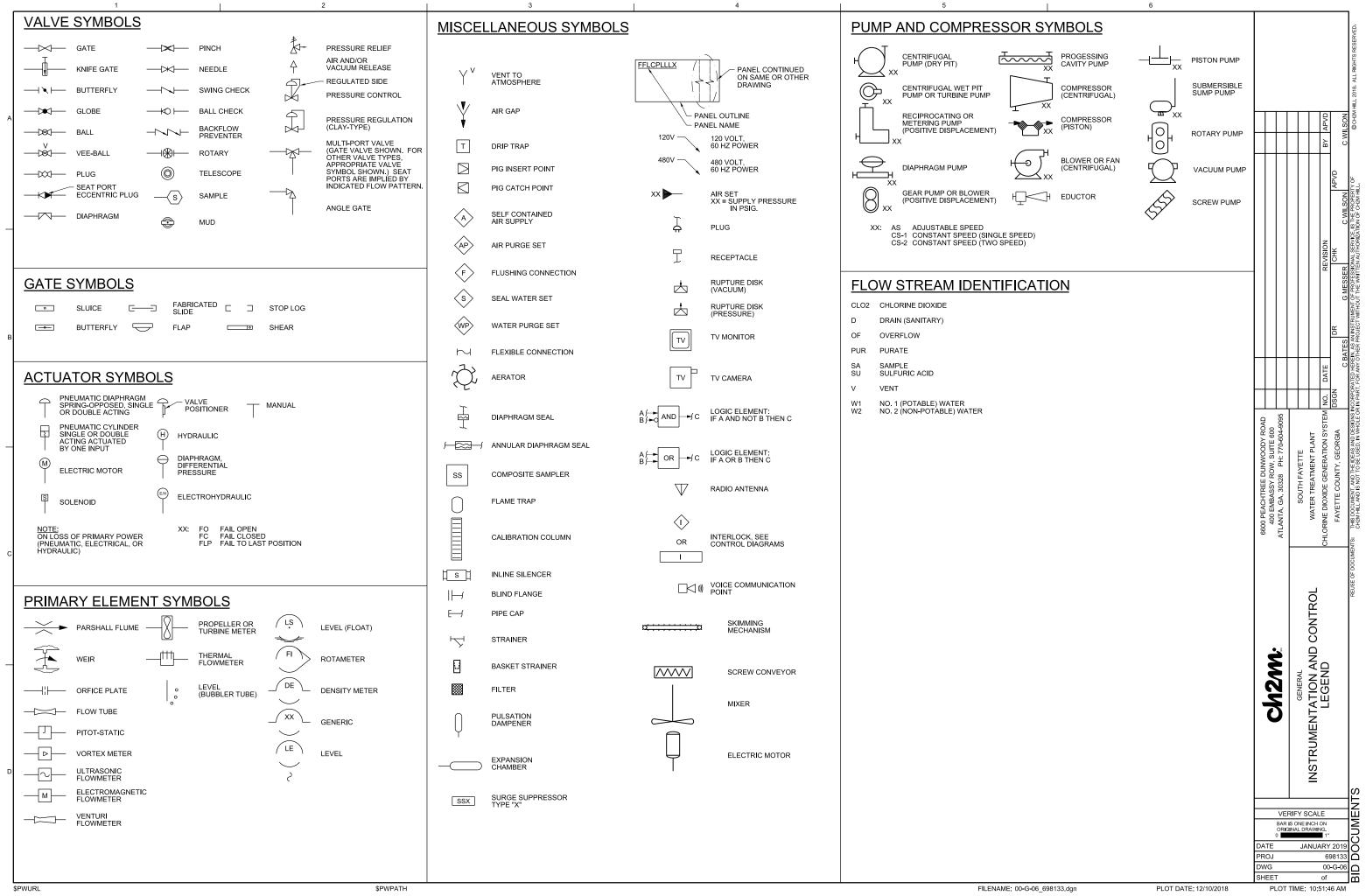
_		1	2			3		4		5
			PIPE AND FITTIN	<u>G SYMBOLS</u>			VALVE	SYMBOLS		
	DOUBLE LINE	SINGLE LINE		DOUBLE LINE	SINGLE LINE		GATE			
		<u>+</u>	EXISTING PIPE	-2		REDUCING BUSHING	KNIFE GATE			
		, <u>+</u> ,	NEW PIPE			UNION	BUTTERFLY			
А		• • •	EXISTING PIPE TO BE ABANDONED		[	САР	BALL			
		*****	EXISTING PIPE TO BE REMOVED		-	ANCHOR		SEATING PORT		
	_ <u></u>		WELDED JOINT		 		ECCENTRIC PLUG			
			GROOVED END JOINT		+J 	ELBOW, 90 DEGREE	PLUG OR COCK	The or the		
			FLANGED JOINT			CROSS	NEEDLE			
_	-2		MECHANICAL JOINT/ PROPRIETARY RESTRAINED JOINT		+ <u>+</u> +	TEE	DIAPHRAGM			
			PROPRIETARY RESTRAINED JOINT			ELBOW, 45 DEGREE	PINCH SWING CHECK			
			BELL & SPIGOT JOINT (LEADED)		1		BALL CHECK			
			HUB & SPIGOT JOINT	_ <u></u>	<u>+</u> Z`}	LATERAL	VALVE	DESIGNATIONS		
			(RUBBER GASKET) BALL JOINT					/ES AND CHECK VALVE	<u>ES</u>	
в			ADAPTER SIDE GROOVED END ADAPTER FLANGE	PIPE AND FITTI	NG END PATTE	RNS	- <del>6</del>	K		
			FLANGED COUPLING ADAPTER	B BELL	PE			<u>8"-V500</u>		
				S SPIGOT	GE MJ	GROOVED END	SIZE OF VALVE - VALVE DESIGNA			
	_ <u></u>		FLEXIBLE COUPLING		⊨ F	MECHANICAL JUINT	VALVE TYPE, SE SPECIFICATION			
	-2-###=	+	METAL BELLOWS EXP JOINT	EXAMPLE:						
	-2		ELASTOMER BELLOWS EXP JOINT					), SELF-REGULAT	<u>ED</u>	
	-	O <del>l</del>	ELBOW UP	MISCELLANEOL	IS SYMBOLS			ELEASE VALVES DR VALVE TAGGING BASIS AND SE	ECTION 40 27 02 FOR	
	-	GI	ELBOW DOWN		_EXIBLE (ELASTOMER)	) PIPE CONNECTION	PACKAGES MAY NOT	NOTE THAT VALVES PROVIDED AS BE SHOWN IN THE VALVE SCHEU MENT SPECIFICATION FOR DETAIL	ILES, SEE THE	
			TEE UP		OSE VALVE (HV- X) OR = NO. IN SPECS	R (V-X)			0.	
с			TEE DOWN							
				MECHAN		ND AND NOTES				
		<b>_</b>	LATERAL UP	GENERIC NO						
		<del></del>	LATERAL DOWN			IDICATED ELEVATION POINTS.				11. ALL NEW W1 WATER P
		₽	CONCENTRIC REDUCER	2. SIZE OF FITTINGS SH TYPE OF JOINT AND I	OWN ON DRAWINGS S	SHALL CORRESPOND TO ADJACEN ALL BE THE SAME AS SHOWN FOR	IT STRAIGHT RUN OF PIPE ADJACENT STRAIGHT RU	E, UNLESS OTHERWISE INDICATEI JN OF PIPE.	D.	CHLORINATED AND BA
4	- <u>-</u>	<u>\</u>	ECCENTRIC REDUCER	3. LOCATION AND NUME	BER OF PIPE HANGER	S AND PIPE SUPPORTS SHOWN IS	ONLY APPROXIMATE. CC	ONTRACTOR SHALL DESIGN SUPP	ORTS AS SPECIFIED.	
	NOTES			5. ALL FLEXIBLE CONNE	ECTORS AND COUPLIN	PIPES SHALL BE USED WHEREVE	OWITH THRUST PROTECT		ERWISE NOTED.	
	1. SEE PIPING SPE & TYPES.	CIFICATIONS FOR PI	PING AND JOINT MATERIALS	6. SYMBOLS, LEGENDS	AND PIPE USE IDENT	FE FOR TEST PRESSURES SPECIFI	LOWED THROUGHOUT TI	HE DRAWINGS, WHEREVER APPLI	CABLE.	
	ONLY. REFER T	O PIPING SPECIFICAT	E LINE FITTINGS ARE GENERIC TIONS FOR SPECIFIC END			IENTS ARE NECESSARILY USED IN SSURE TESTED, EXCEPT FLANGED		PIPING, SHALL BE PROVIDED WIT	TH THRUST	
	3. UNLESS OTHER		E AND FITTINGS. ISTING PIPING AND EQUIPMENT EENED AND IS NOTED AS	RESTRAINTS. ALL CO	DNNECTIONS TO EXIST	TING PIPE SHALL BE MADE WITH M /N ON DRAWINGS IS ONLY APPRO)	IEGALUGS.			
D	EXISTING. NEW 4. ONLY FLANGED	PIPING AND EQUIPM END CONNECTIONS	ENT IS SHOWN HEAVY-LINED. ARE SHOWN HERE FOR DOUBLE LINE	REMOVAL OF VALVES 9. WHERE A GROOVED	S AND MECHANICAL EC	QUIPMENT. DWN, IT SHALL BE THE RIGID JOIN ⁻	T TYPE, UNLESS OTHERW			
		TION DRAWINGS. AL	D PATTERNS ARE SHOWN SIMILARLY ON SO SEE PIPING SPECIFICATIONS.	ADAPTER IS SHOWN, 10. ALL PIPELINES LEAVI	A STANDARD FLANGE	E SHALL BE JOINED TO THE COUPL OR CONCRETE ENCASEMENT SHAL	.ING ADAPTER. LL INCORPORATE FLEXIBI	ILITY FEATURES AS SPECIFIED IN	SECTION 40 27 00 AND SE	ECTION 40 27 01.
			16" TSL -	IN SOME CASES, PIP	NG JOINTS OUTSIDE F	ACILITIES ARE SHOWN ON DRAWI NOT THEY ARE SHOWN ON A DRA	NGS. PIPING FLEXIBILITY			
		SERVICE, SEE S	PECIFICATIONS							
			DULE WITH ABBREVIATION LEGEND							
L \$	PWURL			\$PWPATH						FILENAME: 00-0

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	1-9095		YSTEM N	<u> </u>
	6600 PEACHTREE DUNWOODY ROAD 400 EMBASSY ROW, SUITE 600 ATLANTA, GA, 30328 PH: 770-604-9095	SOUTH FAYETTE WATER TREATMENT PLANT	CHLORINE DIOXIDE GENERATION SYSTEM NO.	FAYETTE COUNTY, GEORGIA USGN DYANG KL DIAZ L JESTER M YANG KL DIAZ L JESTER
ES MUST BE PROPERLY FLUSHED, PRESSURE TESTED, TERIOLOGICALLY TESTED, AS SPECIFIED.	ch2m:	GENERAL PROCESS MECHANICAL LEGEND		
	DATE PROJ		ON IG. ∎ 1" √RY 2 698	8133
	DWG SHEET		00-0 of	G <b>-</b> 04

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INSTRUMENT IDENTIFICAT	ION					LINE LEGEND	
INSTRUMENT IDENTIFICATION INSTRUMENT IDENTIFICATION LETTERS TABLE FIRST-LETTER PROCESS OR PROCESS O							
	FIRST-LETT	TER		SUCCEEDING-LETTER	RS		
			READOUT OR	READOUT OR	READOUT OR	DASHED LINE INDICATES	PARALLELING LINES
EXAMPLE SYMBOLS		MODIFIER		PASSIVE FUNCTION	PASSIVE FUNCTION	,	(2) - 3(2)
- UNIT PROCESS NUMBER				USER'S CHOICE (*)	USER'S CHOICE (*)		
				CONTROL		PROCESS (OPEN CHANNEL)	(A) (B)
CLARIFYING ABBREVIATIONS							(A) TOTAL OF 2 SIGNALS
	E VOLTAGE					(4 TO 20 mAdc, ETC.)	
UPFITY SUCCEEDING LETTER(S)	F FLOW RATE						
	G USER'S CHOICE (*)		GLASS GAUGE	GATE			CONNECTING LINES
			VIEWING DEVICE	0,112			TT T
	, , ,				HIGH		
		SCAN	INDIOATE				
- UNIT NUMBER	K TIME, TIME SCHEDULE			CONTROL STATION		FACILITY BOUNDARY	
		OF CHANGE					NON-CONNECTING LINES
		MOMENTARY	EIGHT (FIEOT)			TYPICAL BREAK	
				USER'S CHOICE (*)	USER'S CHOICE (*)	P POWER	
		0					
	P PRESSURE, VACUUM					msc MANUFACTURER'S SUPPLIED (	JADLE
	Q QUANTITY	INTEGRATE,				INTERFACE SYMBOLS	
DIGITAL SYSTEM INTERFACES	R RADIATION		RECORD OR PRINT				
	S SPEED, FREQUENCY	SAFETY					
▲ ANALOG INPUT	i i i i i i i i i i i i i i i i i i i	<u> </u> T				S WA	PROCESS INTERFACE
▼ ANALOG OUTPUT			WOLT FUNCTION		WULTFUNCTION		
$\triangle_{\chi}$ DISCRETE INPUT	MECHANICAL ANALYSIS						SIGNAL INTERFACE
▽ _X DISCRETE OUTPUT		Y AVIC					
			UNCEASSIFIED ()			W SOURCE UNIT PROCES	SS NO. (1 OR 2 DIGITS)
							· · · ·
	Z POSITION	Z AXIS		DRIVE, ACTUATOR,			
				CONTROL ELEMENT			
	TABLE BASED ON THE INTERNATIONAL		MATION (ISA) STANDAR	RD.			,
	(+) WHEN USED, EXPLANATION IS SHC	OWN ADJACENT TO I	NSTRUMENT SYMBOL.	SEE ABBREVIATIONS	AND LETTER SYMBOLS.		ESS / P
							JJECT /
	ANSDUCERS	ACCESS	ORY DEVICES	SPECIAL CAS	<u>ES</u>		
	ANALOG I CURRENT	A ALARM		$\mathbf{h} = \mathbf{I}$		PROCESS OR SIC	
D				YL YOO			
				$\sim$	LIGHTS		
F							
REAR-OF-PANEL				00			
	RESISTANCE IN RESISTANCE			(HS)	SWITCH (CONTROLLED	SELF CONTAINED VAL	/E &
PANEL MOUNTED	MDLE			$\smile$	ON RETURN OF POWER	FQUIPMENT TAG NUME	<u>JERS</u>
(OPERATOR EAA			JULIED		AFTER POWER FAILURE).		
······································	EX CURRENT TO PNEUMATIC	<u>EXAMPLE</u>		$\frown$		W-D-X-Y	
MCC MOUNTED	IT WITE BOOLIN (BRIDIN OF	FIT		AN (HS)	SWITCHES (CONTROLLED		IMBER
		т <u></u>		$\smile$	ON RETURN OF POWER		
		1 -			ALLEN FOWER FAILURE).	AVRV AIR AND VACUUM	
						G GATE	
						P PUMP	JEMENT
						Y UNIT NUMBER	



PLOT TIME: 10:52:20 AM



YMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		4		5 CONDUIT AND RAC	EWAY			
	ONE LINE DIAGRAMS		POWER SYSTEM PLAN		<u>GENERAL C</u>		DNDUCTOR AND CO		NTIFICATION		
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN,	_	PANELBOARD - SURFACE MOUNTED								
	3 POLE, UNO CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP		PANELBOARD LETTER OR NUMBER	[P1]	POWER CIR( [1/2"FLEX, 2#12,#12G]	CUIT CALLOUT: [P24]	S [1"C,3#8,3#14,1#10G]	PC [PC1]	WER CABLE CIRCUIT CALLOUTS [3/4"C,1 (3C#12,1#12G) TYPE 2]		
100/M	RATING SHOWN, 3 POLE, UNO		FACILITY NUMBER     LP - LOW VOLTAGE PANEL     DEPENDENCE	[P2] [P3]	[3/4"C,2#12,1#12G] [3/4"C,3#12,1#12G]	[P25] [P26]	[1"C,3#8,4#14,1#10G] [1"C,3#8,5#14,1#10G]	[PC2] [PC3]	[3/4"C,1 (3C#10,1#10G) TYPE 2] [1"C,1 (3C#8,1#10G) TYPE 2]		
100	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO			[P4] [P5]	[3/4"C,4#12,1#12G] [3/4"C,5#12,1#12G]	[P27] [P28]	[1"C,2#6, 1#10G] [1"C,3#6, 1#10G]	[PC4] [PC5]	[1 1/4"C,2 (3C#12,1#12G) TYPE 2] [1 1/2"C,2 (3C#10,1#10G) TYPE 2]		DVD
60 (3)	FUSE, CURRENT RATING AND QUANTITY INDICATED			[P6] [P7]	[3/4"C,6#12,1#12G] [3/4"C,7#12,1#12G]	[P29] [P30]	[1"C,3#6, 2#14,1#10G] [1"C,3#6, 3#14,1#10G]	[PC1A] [PC2A]	[3/4"C,1 (2C#12,1#12G) TYPE 2] [3/4"C,1 (2C#10,1#10G) TYPE 2]		
	MAGNETIC STARTER WITH OVERLOAD.	or///	EXPOSED CONDUIT AND CONDUCTORS*	[P8] [P9]	[3/4"C,8#12,1#12G] [3/4"C,4#12,2#10,1#12G]	[P31] [P32]	[1"C,3#6, 4#14,1#10G] [1"C,4#6, 1#8G]				
	NEMA SIZE INDICATED, FVNR UNO	$ \text{ or } - /\#/_{G}$ <u>NOTE:</u>	CONCEALED CONDUIT AND CONDUCTORS*	[P10] [P11]	[3/4"C,3#12,3#14,1#12G] [3/4"C,3#12,4#14,1#12G]	[P33] [P34]	[1"C,3#4,1#8G] [1 1/4"C,3#4,3#14,1#8G]				
AFD	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER	CONDUCTORS IN 3/4 NUMBER OF NO. 12 (	IDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND " CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES	[P12] [P13]	[3/4"C,3#12,5#14,1#12G] [3/4"C,3#12,6#14,1#12G]	[P35] [P36]	[1 1/4"C,3#4,5#14,1#8G] [1 1/4"C,3#3, 1#8G]	[EC-1]	EMPTY CONDUIT [3/4"C,WITH PULL STRING]		
	AFD = AC ADJUSTABLE FREQUENCY DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE	GREEN GROUND WI		[P14] [P15]	[3/4"C,3#12,7#14,1#12G] [3/4"C,2#10,1#10G]	[P37] [P38]	[1 1/4"C,3#3, 3#14,1#8G] [1 1/4"C,3#2, 1#6G]	[EC-2] [EC-3]	[3/4 C,WITH PULL STRING] [1"C,WITH PULL STRING] [1 1/4"C,WITH PULL STRING]		
	RVRT = REDUCED VOLTAGE REACTOR TYPE	G	CROSSHATCHES WITH BAR INDICATE NO.10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.	[P16] [P17]	[3/4"C,3#10,1#10G] [3/4"C,4#10,1#10G]	[P39] [P40]	[1 1/4"C,3#1, 1#6G] [1 1/2"C,3#1, 3#14,1#6G]	[EC-3] [EC-4] [EC-5]	[1 1/2"C,WITH PULL STRING] [2"C,WITH PULL STRING]		
•	CABLE OR BUS CONNECTION POINT		CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.	[P18] [P19]	[3/4"C,6#10,1#10G] [3/4"C,8#10,1#10G]	[P41] [P42]	[1 1/2"C,3#2/0, 1#6G] [2"C,3#3/0, 1#4G]	[EC-6] [EC-7]	[2 C,WITH POLL STRING] [3"C,WITH PULL STRING] [4"C,WITH PULL STRING]		REVIS
	SURGE ARRESTER (GAP TYPE)	[A1] —		[P20] [P21]	[3/4"C,3#10,5#14,1#10G] [1"C,2#8,1#10G]	[P43]	[2"C,3#4/0, 1#4G]	[EC-8]	[5"C,WITH PULL STRING]		
<b>—— (</b> 10	CAPACITOR - KVAR INDICATED, 3 PHASE	)	CONDUIT DOWN	[P22] [P23]	[1"C,3#8,1#10G] [1"C,3#8,2#14,1#10G]						
		o0	CONDUIT UP	A	NALOG CIRCUIT CALLOUTS	CON	TROL CIRCUIT CALLOUTS	100	NTROL CABLE CIRCUIT CALLOUTS		
$\sqrt{3}$	AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED	]	CONDUIT, STUBBED AND CAPPED	[A1] [A2]	[3/4"C,1 TYPE 3] [1"C,2 TYPE 3]	[C1] [C2]	[3/4"C,MSC] [3/4"C,2#14,1#14G]	[CC5] [CC7]	[3/4"C,1-5C TYPE 1] [3/4"C,1-7C TYPE 1]		
G	GENERATOR, KW/KVA RATING SHOWN		CONDUIT TERMINATION AT CABLE TRAY	[A3] [A4]	[1"C,3 TYPE 3] [1"C,4 TYPE 3]	[C3] [C4]	[3/4"C,3#14,1#14G] [3/4"C,4#14,1#14G]	[CC9] [CC12]	[1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1]		
500/625 /S		EX	EXISTING CONDUIT/ DUCT BANK	[A5] [A6]	[1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3]	[C5] [C6]	[3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G]	[CC19] [CC25]	[1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1]		
<u> </u>	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN V = VOLTAGE KW = KILOWATTS	BD	BUS DUCT - SEE SPECIFICATIONS	[A7] [A8]	[1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3]	[C7] [C8]	[3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G]	[CC37] [CCC1]	[2"C,1-37C TYPE 1] [1-7C #12 TYPE 1]		
	A = AMPERAGE KVAR = KILOVARS PF = POWER FACTOR	CE	CONCRETE ENCASED CONDUIT	[A9] [A10]	[1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3]	[C9] [C10]	[3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G]			Y ROAL 600 304-905	
		DB	DIRECT BURIED CONDUIT	[A11] [A12]	[2"C,11 TYPE 3] [2"C,12 TYPE 3]	[C11] [C12]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G]			NOODY SUITE H: 770-6	TTE JT PLAI
• <del>W</del>	DIGITAL POWER METER (MULTIFUNCTION)	FO	FIBER OPTIC CONDUIT	[A13] [A14]	[2"C,13 TYPE 3] [2"C,14 TYPE 3]	[C13] [C14]	[3/4"C,13#14,1#14G] [3/4"C,14#14,1#14G]			E DUNV / ROW, 328 PH	H FAYE
Ť	GROUND	() or HH	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE	[A15] [A16] [A17]	[3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4]	[C15] [C16]	[3/4"C,15#14,1#14G] [3/4"C,16#14,1#14G] [2/4"C,16#14,1#14G]			CHTRE ABASSY GA, 303	SOUTH ER TRE
15 KVA	240V	cs	CONTROL STATION, SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED.	[A17] [A18] [A19]	[1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4]	[C17] [C18]	[3/4"C,17#14,1#14G] [3/4"C,18#14,1#14G]			00 PEA 400 EN ANTA,	WATI
1 PH	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED	30 🖵	NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED. 3 POLE	[A19] [A20] [A21]	[1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4]	[C19] [C20]	[3/4"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G]			66( ATL	
C ^{480-120∨}	POTENTIAL TRANSFORMER, VOLTAGE RATING			[A21] [A22] [A23]	[1 1/2 C,7 TYPE 4] [1 1/2"C,8 TYPE 4] [2"C,9 TYPE 4]	[C21] [C22]	[1"C,21#14,1#14G] [1"C,22#14,1#14G] [1"C,23#14,1#14G]				
	AND QUANTITY INDICATED			[A23] [A24] [A25]	[2 C,9 FFFE 4] [3/4"C,1-4 pr. TYPE 5] [1"C,2-4 pr. TYPE 5]	[C23] [C24]	[1"C,23#14,1#14G] [1"C,24#14,1#14G] [1"C 25#14 1#14G]				
0:5€ ₍₃₎	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)	•			[. 0,2 . pi 0]	[C25]	[1"C,25#14,1#14G]				
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER			<u>NOTES:</u> 1. FOR (	CABLE TYPES, SEE SPECIFICATIO	DNS.					
-	DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION	G			DUIT SIZES ARE BASE ON THE AR G OF CONDUCTORS #2AWG AND					•_*	JENI
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME	AT 60	G OF CONDUCTORS #2AWG AND DEGREES C, SIZING OF CONDUC MPACITIES AT 75 DEGREES C.					5	Ш Ц
	TERMINAL BLOCK LUG	G	EQUIPMENT GROUND BUS	4. WHEF ENCA	RE CIRCUITS ARE UNDERGROUN ASED, MINIMUM CONDUIT SIZE SH	D, DIRECT BUR IALL BE 1".	RIED OR CONCRETE			<u> </u> ନ୍	SENERA CAL
Δ	DELTA CONNECTION				METRIC CONDUIT SIZES USE THE 16 mm 1/4" = 35 mm	FOLLOWING C	CONVERSION:			5	TR
ዂ	WYE GROUNDED CONNECTION, SOLID GROUND			3/4" =	21 mm 1 1/2" = 41 mm 7 mm 2" = 53 mm						
											Ш
		NOTES:									
			NDARD LEGEND SHEETS. SOME SYMBOLS AND ABBREVIATIONS N THE LEGEND AND NOT ON THE DRAWINGS.								
			L ABBREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND RCHITECTURAL) SEE OTHER LEGENDS.								RIFY SCALE
										0R 0	R IS ONE INCH ON GINAL DRAWING.
										DATE PROJ	JANUAR'
										DWG SHEET	0 of

	1	2	3		4	5
ARCHITE	CTURAL ABBREVIATIONS	ļ	ARCH/STRUCT MATERIAL	_ SYMBOLS		ARCHITECT
ABBREVIATION	DEFINITION	SYMBOL	LEGEND	SYMBOL	LEGEND	SYMBOL
A AC ACFL ACMU ACT	AWNING ACOUSTICAL CEILING ACCESS FLOORING ACOUSTICAL CMU ACOUSTICAL TILE		GRATING, SPAN DIRECTION INDICAT		WOOD STUD WALL (PLAN)	(A)
AJ AL AS	ADJUSTABLE ALUMINUM AS SELECTED		CHECKERED PLATE		RIGID INSULATION	
BRK BNZ BV C	BRICK BRONZE BLOCK VENT CASEMEMT		GROUT		STEEL	XX101 OR XXX'' = FACILITY
CLR CLSR CMU	CLEAR CLOSER CONCRETE MASONRY UNITS		GRANULAR FILL - EARTH OR FINISH GRADE		ALUMINUM	INDICATOR (IF SHOWN)
CNTR COL CONC CONSTR	COUNTER COLOR CONCRETE CONSTRUCTION		CONCRETE		PLYWOOD	
CONSTR CPT CRC CT	CARPET CHEMICAL-RESISTANT COATINGS CERAMIC TILE		CMU WALL (PLAN)		GYPSUM WALLBOARD	XXW-1 OR
DA DB DH	DUAL ACTION DRAINABLE DOUBLE HUNG		CMU WALL (SECTION)		WOOD, ROUGH CONTINUOUS	XXR-1 OR
EIFS EXP FCTY FNSH	EXTERIOR INSULATION AND FINISH SYSTEM EXPOSED STRUCTURE FACTORY FINISH	\$/////////////////////////////////////	A MASONRY WALL		WOOD, ROUGH NON-CONTINUOUS	XXL-1 OR
FRP FWC FX	FIBERGLASS REINFORCED PLASTIC FABRIC WALL COVERING FIXED	<u> </u>	METAL STUD WALL (PLAN)		WOOD, FINISHED	-
GALV GCMU GH	GALVANIZED STEEL GLAZED CONCRETE MASONRY GREENHOUSE					
GLZ GMU GSB GWB	GLAZING GLASS MASONRY UNITGRY GRAY GYPSUM SOFFIT BOARD GYPSUM BOARD					QUANTITY AND DIRECTION OF POINTERS AS
HC HDNR HGT HM	HOLLOW CORE HARDENER HEIGHT HOLLOW METAL					REQUIRED
HS	HORIZONTAL SLIDING					

2

1

1

1

JALOUSIE

MATERIAL

PROJECTED

PAVER TILE

PLASTER

PLYWOOD

PANELING

PUSH-PULI

PARTITION

RESILIENT

QUARRY TILE

JAL-AWNING KEY GROUP

J JA KEY

KPL LD MATL

MDO

MET MO MS

PAVT

PLAM PLAS

PLWD PNL PP PTN

QT RESIL

RFS

RFS RRUB RUB SC SIM SMLS

SOI SP SST

SST STL SVIN TCTG TH TR TSHD TWP VCT VIT

VNL VP VS

VWC WD

WHT

WRB WS WW KICK PLATE COMBINATION LOUVER/DAMPER

MEDIUM DENSITY OVERLAY

MANUFACTURER'S STANDARD

METAL MANUALLY OPERABLE

PLASTIC LAMINATE

ROLL-UP FIRE SHUTTER

SOLID CORE WOOD SIMILAR

SPRAY-ON INSULATION

THRESHOLD TRANSLUCENT PANEL SYSTEM

VINYL COMPOSITION TILE VINYL TILE

VERTICAL PIVOTED

VINYL WALL COVERING

WATER RESISTANT GWB

WEATHERSTRIPPING

VERTICAL SLIDE

WINDOW WALL OPEN

SEAMLESS EPOXY

STORMPROOF STAINLESS STEEL

TOP HINGED

TRANSOM

STEEL SHEET VINYL TRAFFIC COATING

VINYI

WHITE

RADIAL RUBBER FLOORING RUBBER SHEET FLOORING

ACTIVE

5

# **GENERAL ARCHITECTURAL NOTES**

1

4

1

- 1. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
- 2. "FLOOR LINE" REFERS TO TOP OF CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- 3. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
- 4. WHERE DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3-INCHES FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF ALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS, 8" AT CMU WALLS.
- 5. AT SOUND INSULATED WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT; TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND OTHER PENETRATIONS
- 6. LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE APPROXIMATE. THEY ARE AT THE BUILDING FACE, OR ON THE SECTION END EXCEPT AS NOTED.
- 7. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
- 8. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
- 9. VERIFY SIZE AND LOCATION OF, AND PROVIDE: REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.

# APPLICABLE CODES

INTERNATIONAL BUILDING CODE, 2012 EDITION, WITH GEORGIA AMENDMENTS 2014 2015 2017 2018

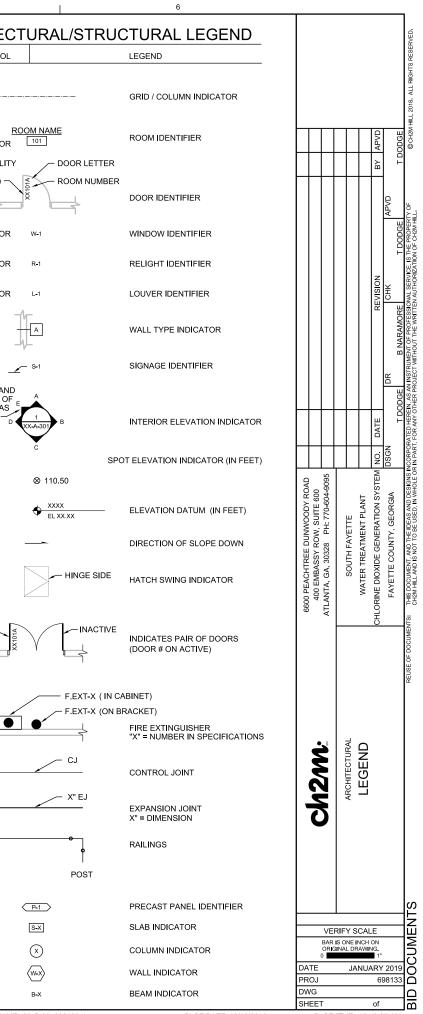
INTERNATIONAL FIRE CODE, 2012 EDITION, WITH GEORGIA AMENDMENTS

LIFE SAFETY CODE, NFPA 101, 2012 EDITION (RULES & REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MINIMUM FIRE SAFETY STANDARDS, 120-3-3-.04 (72))

INTERNATIONAL PLUMBING CODE, 2012 EDITION, WITH GEORGIA AMENDMENTS 2014 2015

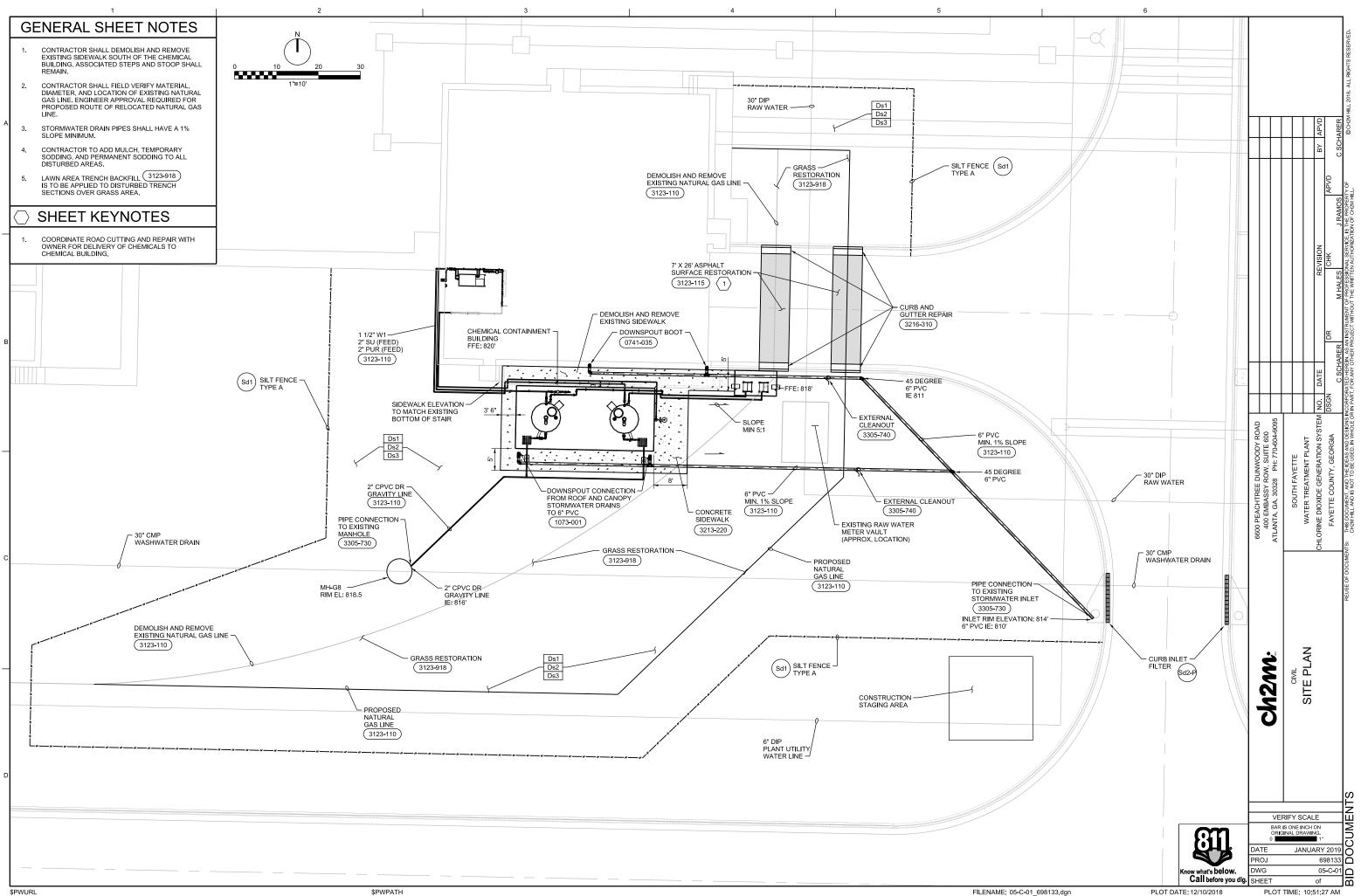
NATIONAL ELECTRICAL CODE, NFPA 70, 2017 EDITION (NO GEORGIA AMENDMENTS)

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PLOT DATE: 12/10/2018

PLOT TIME: 10:48:25 AM



## **EROSION CONTROL NOTES**

- ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES FENCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK AND REMAIN UNTIL COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE DAMAGED ITEMS
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER 2. CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- SOIL DISTURBING ACTIVITIES WILL INCLUDE: PLACEMENT OF EROSION 3. CONTROL MEASURES, GRADING OPERATIONS, SHORING AND SLOPE STABILIZATION, CONSTRUCTION OF FACILITIES, CONSTRUCTION OF ASPHALT PAVEMENT, TRENCHING AND UTILITY INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL FROSION CONTROL 4 MEASURES INSTALLED IN GOOD WORKING ORDER FOR THE FULL DURATION OF THIS CONTRACT
- EROSION. SEDIMENT AND POLLUTION CONTROL MEASURES SHALL BE 5. PROVIDED AS SHOWN AND ARE THE MINIMUM REQUIRED. ADDITIONAL DEVICES MAY BE REQUIRED AS NECESSARY DURING CONSTRUCTION.
- CONTRACTOR SHALL INSTALL AND ADD TO EROSION CONTROL MEASURES AS 6 DETERMINED BY THE ENGINEER, OWNER OR THE COUNTY
- PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. CURRENT EDITION. THIS DESIGN SHALL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THIS PUBLICATION
- NO BURN OR BURY PITS SHALL BE PERMITTED ON THE SITE WITHOUT THE 8. EXPRESS WRITTEN AUTHORIZATION OF THE SITE OWNER AND/OR THE ENGINEER OF RECORD.
- A TEMPORARY COVER OF HEAVY MULCH OR MULCH WITH TEMPORARY 9 SEEDING SHALL BE PLACED ON ALL AREAS WHERE PERMANENT COVER CAN NOT BE ESTABLISHED IMMEDIATELY DUE TO SEASONAL LIMITATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT UNDER NO 10. CIRCUMSTANCES ANY SEDIMENT, TRASH, OR DEBRIS BE ALLOWED ONTO ADJACENT PROPERTIES, PUBLIC LANDS, OR OUTSIDE OF THE CONSTRUCTION LIMITS.
- TEMPORARY SILT CONTROL FENCE SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR SHALL INSPECT FENCE DAILY AND AFTER EVERY RAIN EVENT. ACCUMULATED SILT SHALL BE REMOVED AS SOON AS PRACTICAL, BUT NO LATER THAN WHEN FENCE IS HALF FULL. CONTRACTOR SHALL REMOVE THE SILT FENCE WHEN PERMANENT GRASSING HAS BEEN ESTABLISHED.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL MEET THE MINIMUM REQUIREMENTS OF THE SPECIFICATIONS AND ALL LOCAL, STATE, AND 12. FEDERAL LAWS AS APPLICABLE TO THIS PROJECT. ALL DEVICES SHALL BE PROPERLY INSTALLED AND BE OF SUITABLE MATERIALS. ANY DEVICES JUDGED TO BE INADEQUATE IN MATERIAL AND/OR CONSTRUCTION WIL MMEDIATELY BE REPLACED WITH NEW OR ADDITIONAL DEVICES TO ENSURE PROPER CONTROL
- ALL EROSION CONTROL DEVICES, THAT ARE NOT DIRECTLY SPECIFIED AS TO 13. INSTALLATION AND MATERIALS, SHALL MEET THE REQUIREMENTS OF THE GA DEPT. OF TRANSPORTATION, SPECIFICATIONS FOR THE CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION, AND LATEST SUPPLEMENT IN EFFECT AT THE TIME OF BID OPENING OR THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. 14.
- 15. ALL WASTEWATER AND FROM CONSTRUCTION ACTIVITIES OR CLEANING OPERATIONS SHALL NOT BE DISCHARGED ON THE GROUND

# Ds2

## CONDITIONS

#### THE PURPOSE OF TEMPORARY SEEDING IS TO REDUCE RUNOFF. EROSION AND SEDIMENTATION, IMPROVE WILDLIFE HABITAT, IMPROVE AESTHETICS, AND IMPROVE TILTH AND ORGANIC MATTER.

- INSTALLATION 1. INSTALL ALL ES&PC MEASURES PRIOR TO APPLYING TEMPORARY VEGETATION 2.
- GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A HYDROSEEDER OR BY HAND-SEEDING.
- SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT 3 SEALED BY RAIN.
- WHEN THE SOIL IS SEALED OR CRUSTED, IT SHOULD BE PITTED, 4 TRENCHED OR SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE
- AGRICULTURAL LIME IS NOT REQUIRED. FERTILIZE LOW FERTILITY SOILS PRIOR TO OR DURING PLANTING AT A
- RATE OF 500-700 POUNDS PER ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT (12-16 POUNDS PER 1000 SQUARE FEET).
- IT IS IMPERATIVE THAT CONTRACTOR CHECK THE TAG ON THE BAG OF 7. SEED TO VERIFY THE TYPE AND GERMINATION OF THE SEED TO BE PLANTED.
- APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER SEED PLANTED WITH A DRILL SHALL BE PLANTED 1#4" TO 1#2" DEEP.
- APPLY IN ACCORDANCE WITH ABOVE TABLE. TEMPORARY COVER SHALL APPLIED TO ALL DISTURBED AREAS LEFT IDLE 10 FOR 14 DAYS. IF AN AREA IS LEFT IDLE FOR 6 MONTHS, PERMANENT COVER SHALL BE APPLIED.

### MAINTENANCE

RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.

#### DEFINITION APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS. PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

#### CONDITIONS

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS. BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS. PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED

#### SPECIFICATIONS MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADES OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

### SITE PREPARATION

- 1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORINGMULCH.
- 2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

### MULCHING MATERIALS

- SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:
- DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH.
- THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS. 3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ.YD.). 4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL
- MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND REUSED.

## APPLYING MULCH

- WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
- 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICALEQUIPMENT.
- IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF 'TRACKING IN"OR DAMAGE TO SHOES, CLOTHING, ETC.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS. 4

# SEEDING RATES FOR TEMPORARY

	<u>SEED</u>	<u>ING</u>	
SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/15-12/1
Ryegrass	0.9 pound	40 lbs.	9/1-12/15
Annual Lespedeza	0.9 pound	40 lbs.	3/1-4/1
Weeping Lovegrass	0.1 pound	4 Ibs.	4/1-6/1
Sudangrass	1.4 pounds	60 lbs.	5/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/15-7/1
Wheat	4.1 pounds	3 bu.	11/1-12/15

Unusual site conditions may require heavier seeding rates * Seeding dates may need to be altered to fit temperture

## variations and conditions

\$PWPATH

# **Ds2: DISTURBED AREA STABILIZATION** (WITH TEMPORARY SEEDING)

#### ANCHORING MULCH

STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK."DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHAL PLEASE REFER TO SPECIFICATION TB -TACKIFERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD

WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS

INCREMENTALLY AS NECESSARY

MULCH	ING RATE	
MATERIAL	RATE	DEPTH
STRAW	2.0 TON/ACRE	2" - 4"
HAY	2.5 TON/ACRE	2" - 4"
WOOD WASTE: CHIPS,		0" 0"
SAWDUST, BARK		2" - 3"
POLYETHYLENE	SECURE W/ SOIL	
FILM	ANCHORS	

# **Ds1: DISTURBED AREA STABILIZATION** (MULCH)

NTS

# Ds3

CONDITIONS THE PURPOSE OF PERMANENT SEEDING IS TO REDUCE RUNOFF AND FROSION IMPROVE WILDLIFE HABITAT IMPROVE AESTHETICS IMPROVE TILTH AND ORGANIC MATTER, REDUCE DOWNSTREAM COMPLAINTS, REDUCE LIKELIHOOD OF LEGAL ACTION, REDUCE LIKELIHOOD OF WORK STOPPAGE DUE TO LEGAL ACTION, AND INCREASE GOOD NEIGHBOR BENEFITS

#### INSTALLATION

- USE CONVENTIONAL PLANTING METHODS IF POSSIBLE. APPLY IN ACCORDANCE WITH BELOW TABLE
- CHECK THE TAG ON THE BAG OF SEED TO VERIFY THE TYPE AND 3 GERMINATION OF THE SEED TO BE PLANTED AND THE DATE OF THE TEST
- SCARIFY, PIT OR TRENCH SEALED OR CRUSTED SOIL. FERTILIZE BASED ON SOIL TESTS OR PER SPECIFICATION.
- APPLY AGRICULTURAL LIME AS PRESCRIBED BY SOIL TESTS OR AT A
- RATE OF 1 to 2 TONS PER ACRE. 7. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHALL BE PLANTED 1#4" TO 1#2" DEEP
- 8. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 TO 2.5 TONS PFR ACRE 9.
- IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL, BUT NOT TO THE EXTENT TO CAUSE EROSION.

#### MAINTENANCE

- RE-SEED AREA WHERE AN ADEQUATE STAND OF VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.
- APPLY FERTILIZER PER SPECIFICATION. 3
- MOW BERMUDA AND BAHIA AS DESIRED. MOW SERICEA LESPEDEZA ONLY AFTER FROST TO ENSURE SEEDS ARE MATURE.
- 4. MAINTAIN 6" OR MORE OF TOP GROWTH

### SEEDING RATES FOR PERMANENT SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
BAHIA	1.4 POUNDS	60 LBS.	3/1-6/1
BERMUDA	0.2 POUND	10 LBS.	4/1-6/1
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	11/1-6/1
LESPEDEZA	1.7 POUNDS	75 LBS.	9/1-2/15
WEEPING LOVE GRASS	0.1 POUND	4 LBS.	3/15-5/15
RED CANARY GRASS	0.9 POUND	40 LBS.	3/15-5/15

Unusual site conditions may require heavier seeding rates ** Seeding dates may need to be altered to fit temperature variations and conditions

# Ds3: DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

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PAVEMENT

8" CONCRETE

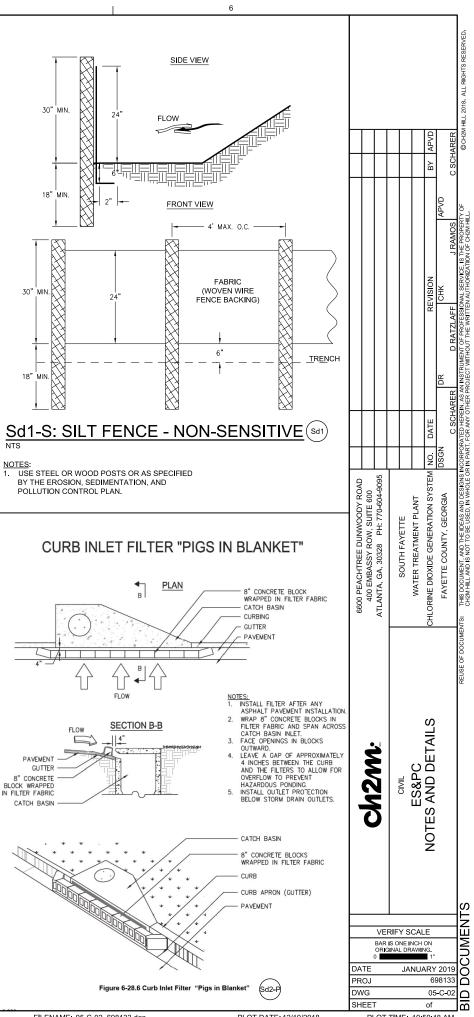
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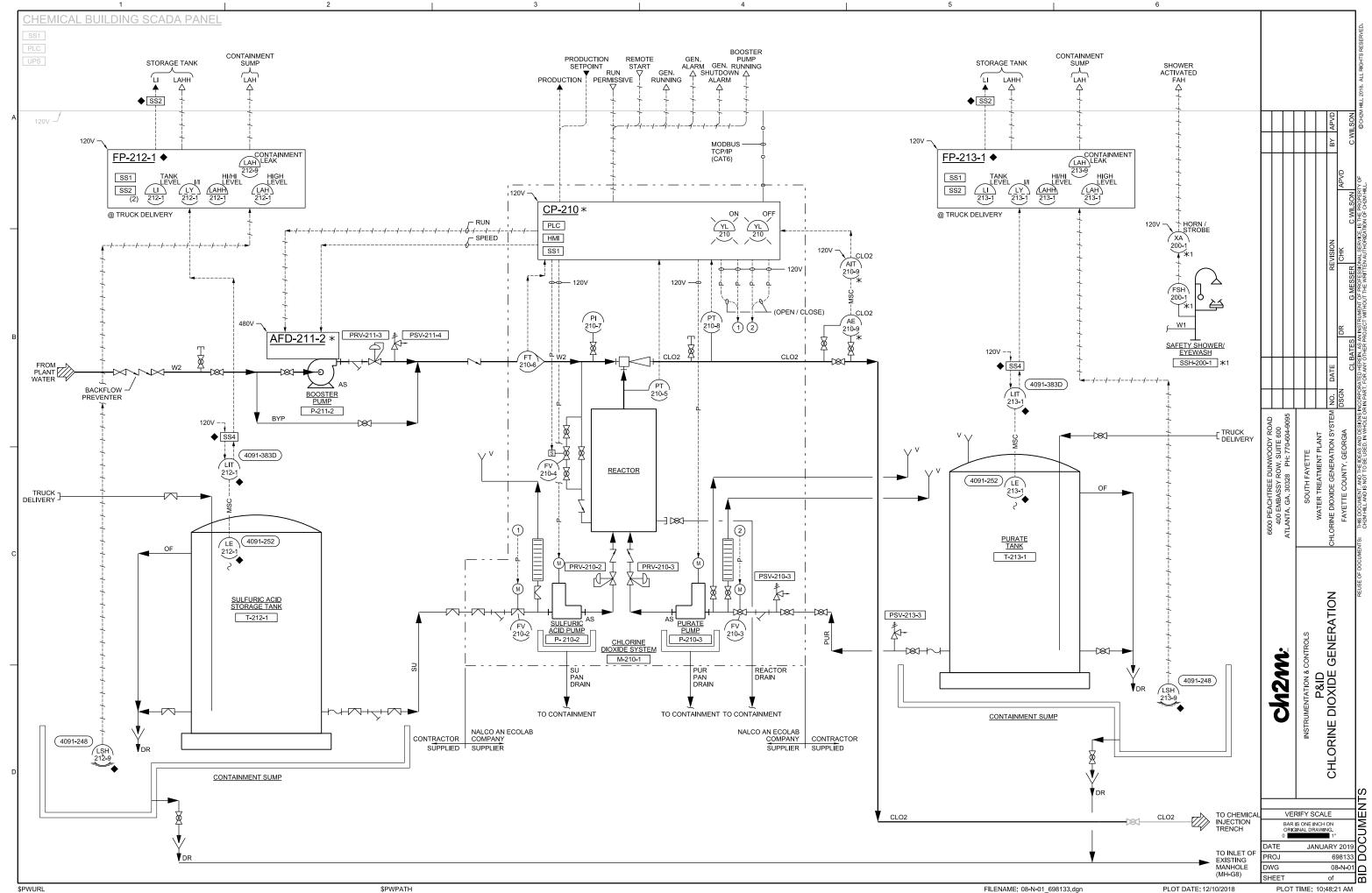
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NOTES



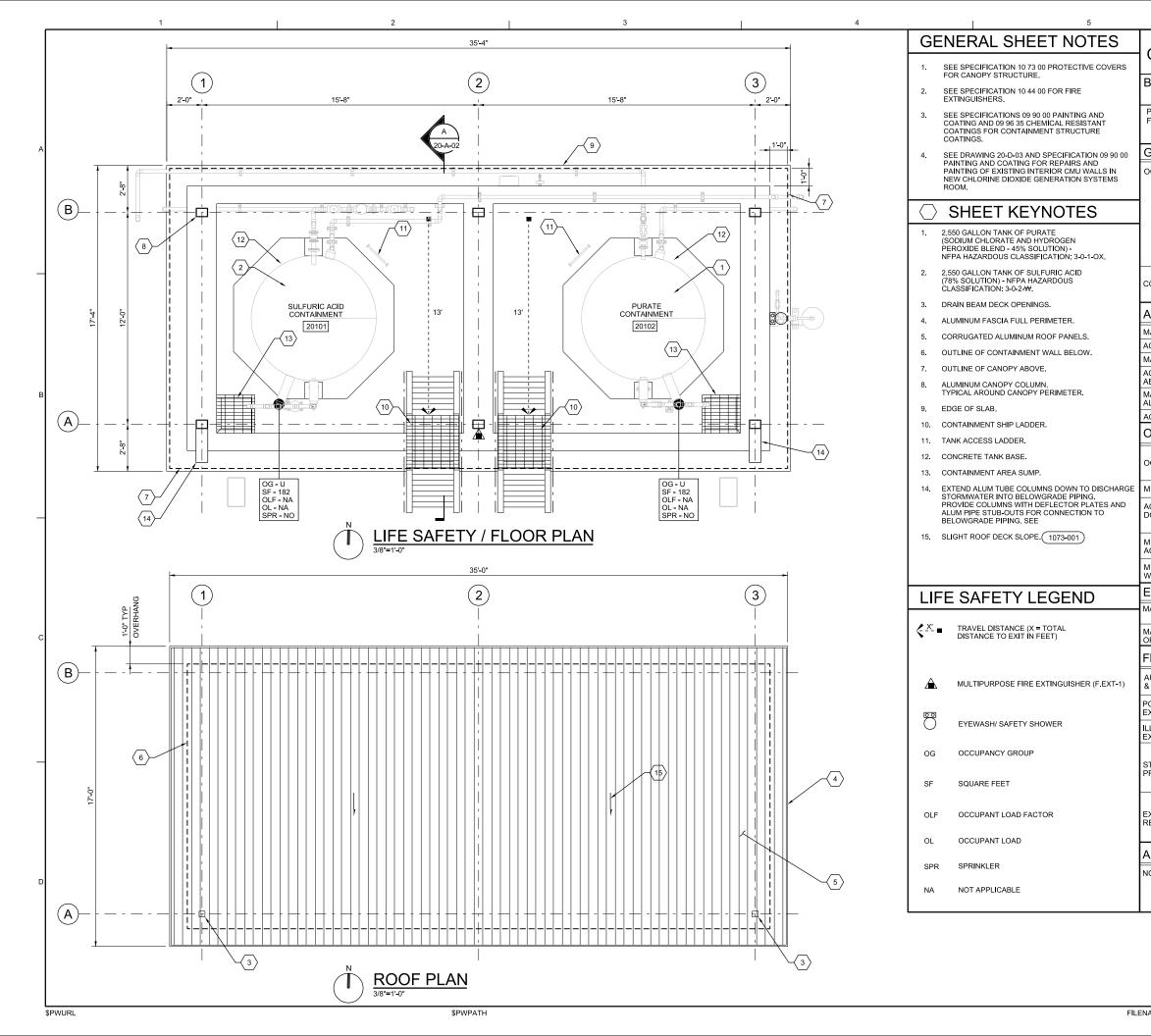
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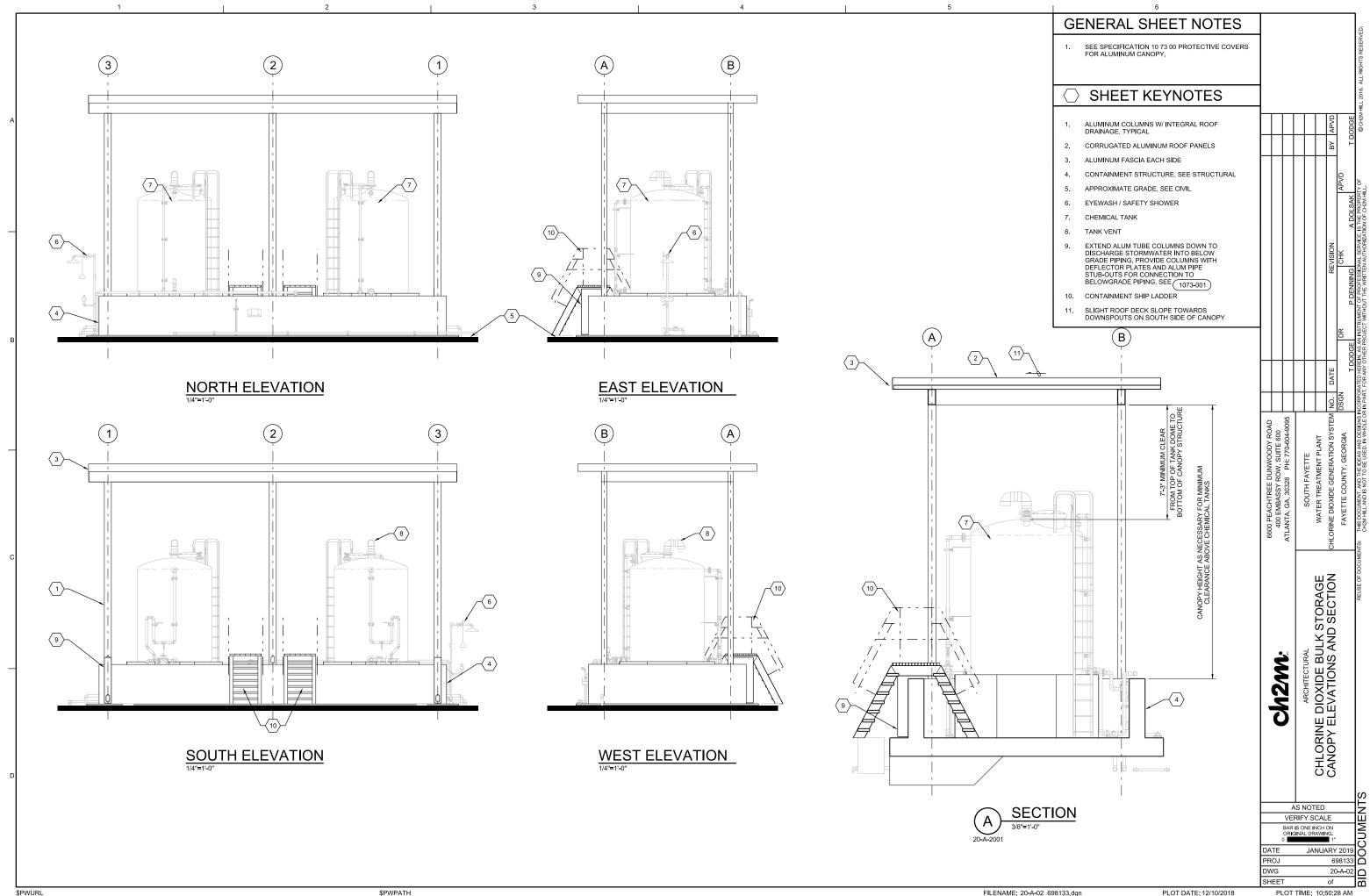
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		(IDE SYSTEM CANOPY				
PROJECT LOCATION: FAYETTE COUNTY, GA	TIMC 643 \$	HITECT: DTHY DODGE SW 4th AVE, SUITE 4 IESVILLE, FLORIDA				
GENERAL INFORMAT					APVD	GE
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		C, 40.1.2.1.2)				A DOL
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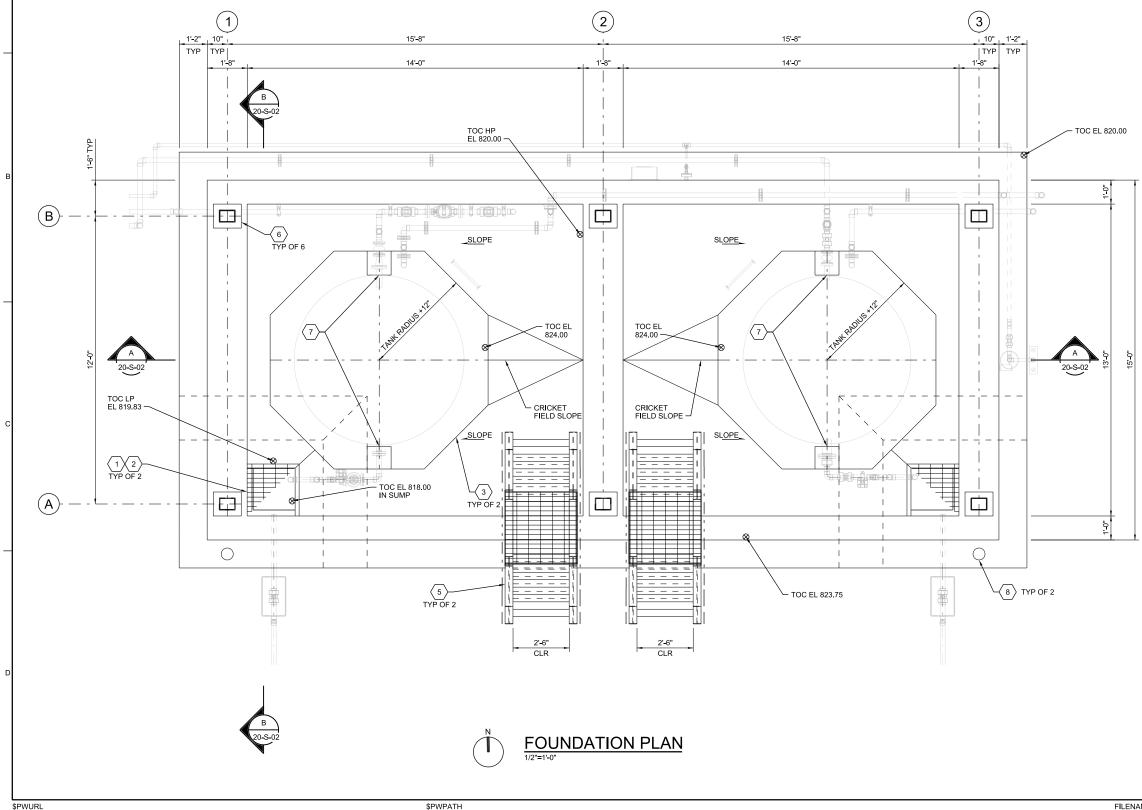
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- 1. FOR GENERAL STRUCTURAL NOTES, SEE
- CANOPY REACTIONS SHALL BE SUBMITTE FOUNDATION DESIGN REVIEW. REINFORC SHOP DRAWINGS WILL NOT BE REVIEWEE CONCRETE SHALL NOT BE PLACED PRIOR APPROVAL OF CANOPY SUBMITTAL. 2.

CANOPY SEISMIC FORCE RESISTING SYS AS REQUIRED BY CANOPY MANUFACTUR 3.



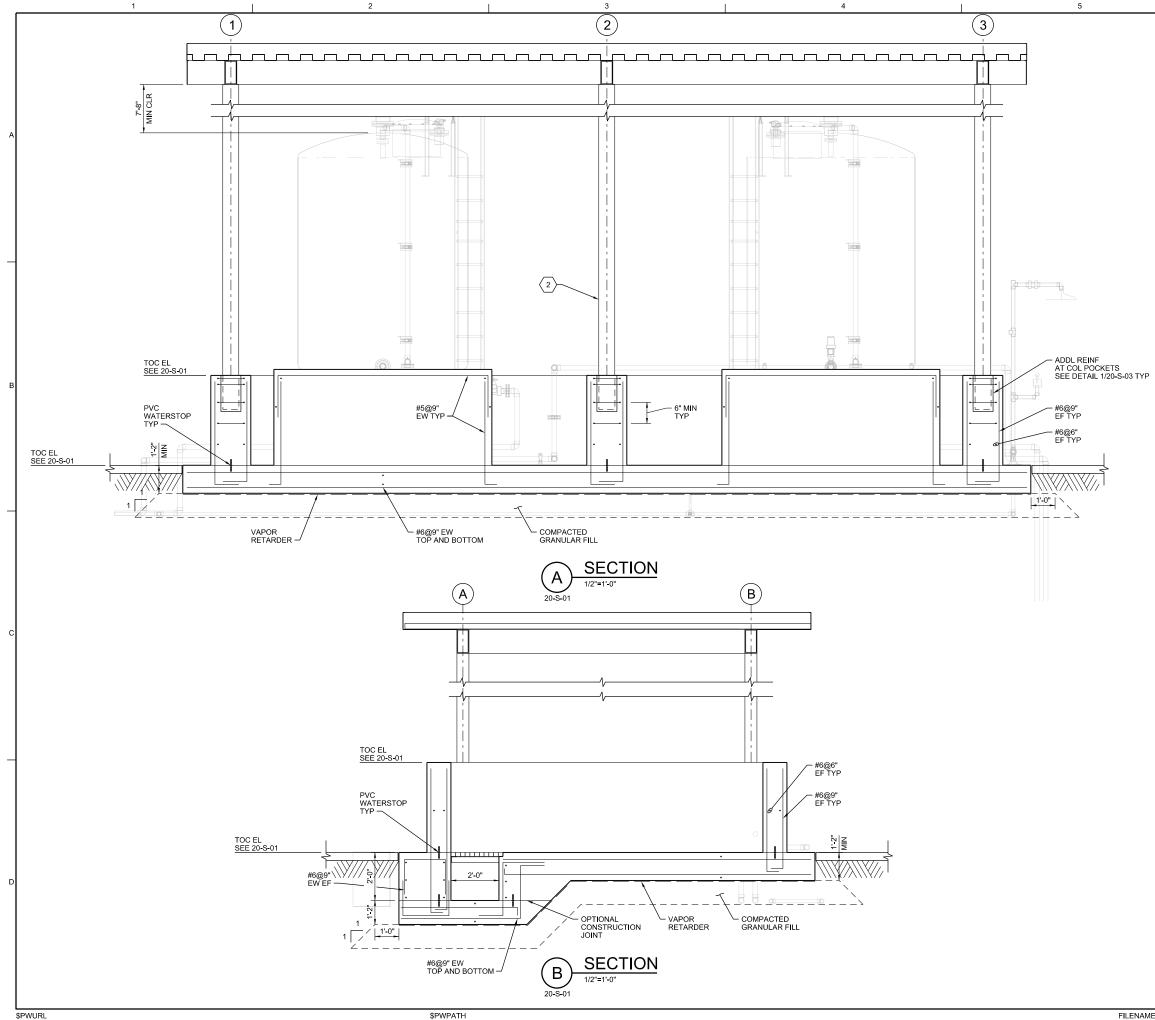
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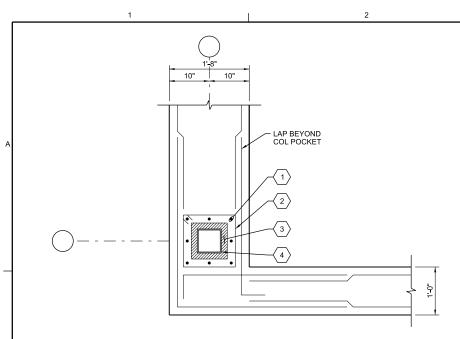
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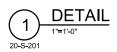
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00-G-03. ED FOR EEMENT O AND	<ol> <li>FRP GRATING WITH SUPPORT TYPE GS-1 AT SLAB AND TYPE GS-3 AT WALL PER DETAIL 0682-030.</li> <li>2'-0" x 2'-0" x 2'-0" SUMP.</li> </ol>				
TO FINAL	<ol> <li>CONCRETE EQUIPMENT PAD TYPE 'A', 0330-056.</li> <li>CONCRETE COVER OVER TOP REINF SHALL BE 2" CLR, MIN AND 4" CLR, MAX TO CREATE SLOPES.</li> </ol>				
=ĸ.	<ol> <li>FRP SHIP STAIR CROSSOVER W/ 48" CLEARANCE, BY FIBERGATE OR APPROVED EQUAL.</li> </ol>			APVD	EVERSON
	<ol> <li>PROVIDE BLOCKOUT IN WALL AS REQUIRED BY CANOPY SUPPLIER FOR EMBEDDED CANOPY COLUMNS. SEE DETAIL 1/20-S-203. MODIFICATION TO WALL GEOMETRY MAY BE REQUIRED TO ACCOMMODATE COLUMN EMBED. COORDINATE WITH ENGINEER.</li> </ol>			ΒY	APVD D EV
	<ol> <li>PROVIDE BLOCKOUT IN PAD FOR OUTLET AND DRAIN NOZZLES. COORDINATE LOCATION AND SIZE WITH TANK MANUFACTURER.</li> </ol>				C ANSON
	8. PENETRATION IN CONC MAT FOR DOWNSPOUT TIE-IN TO CIVIL DRAIN, SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR MORE DETAILS.			REVISION	CHK C M
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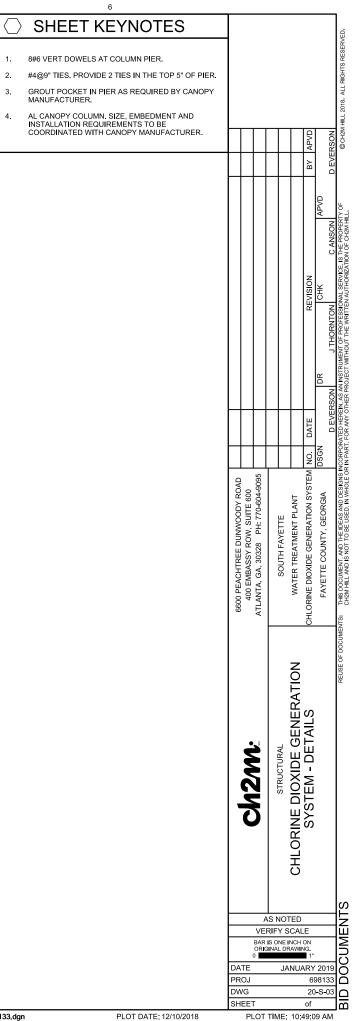


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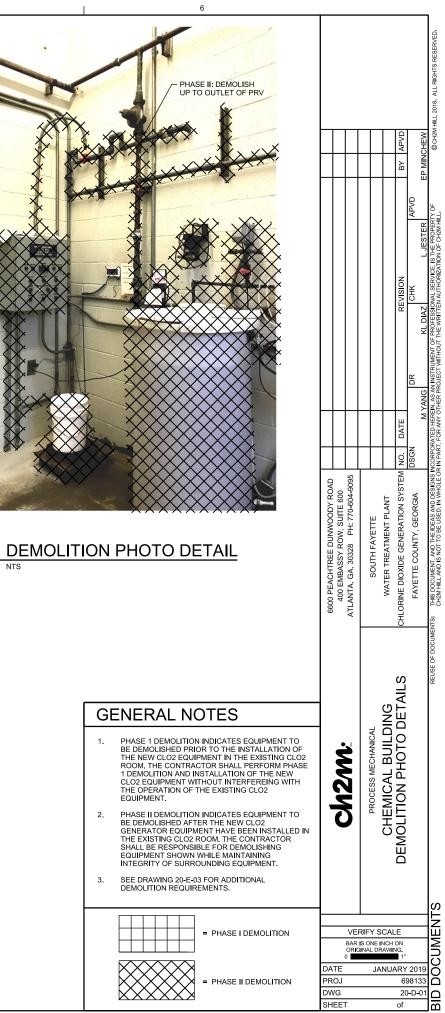


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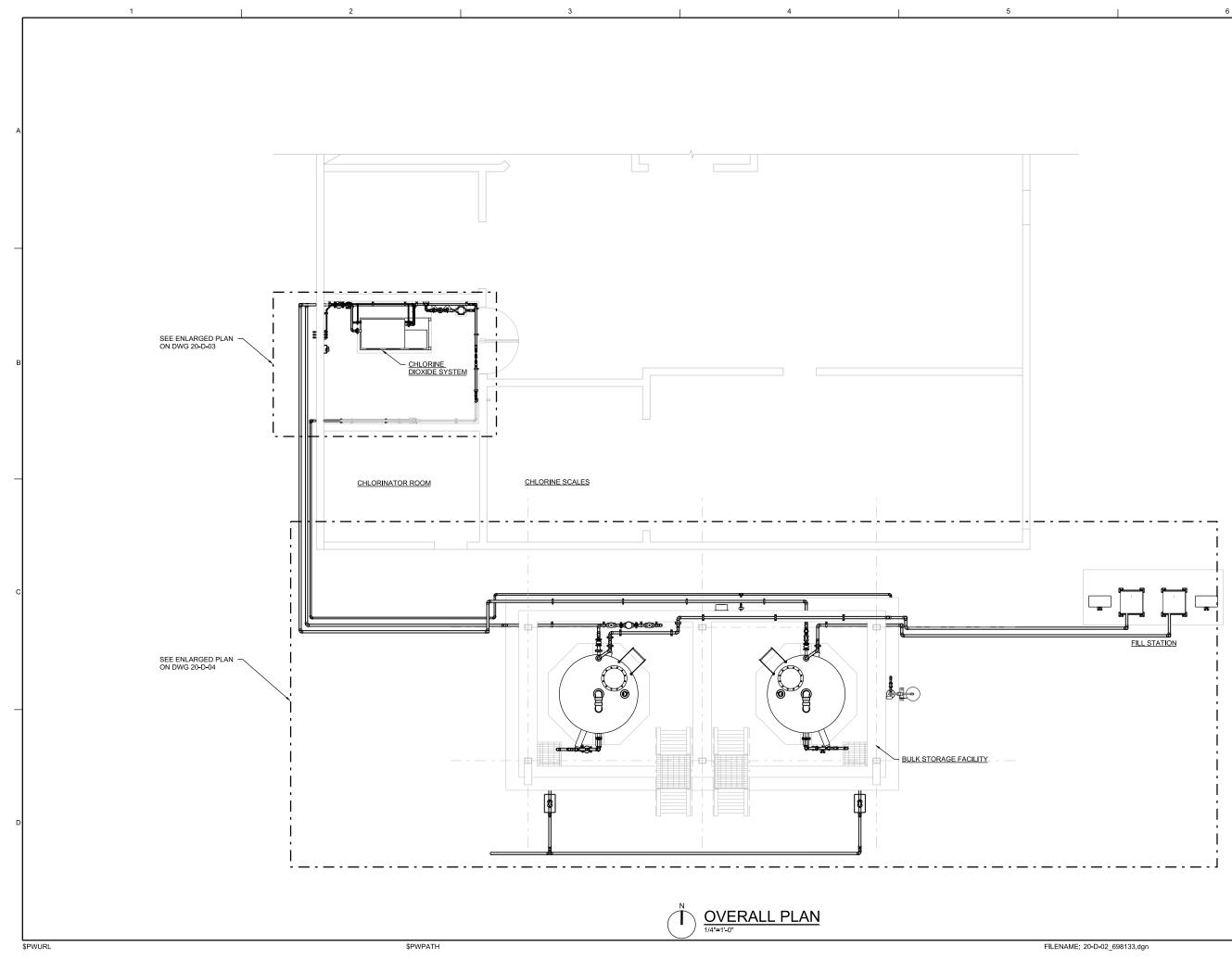




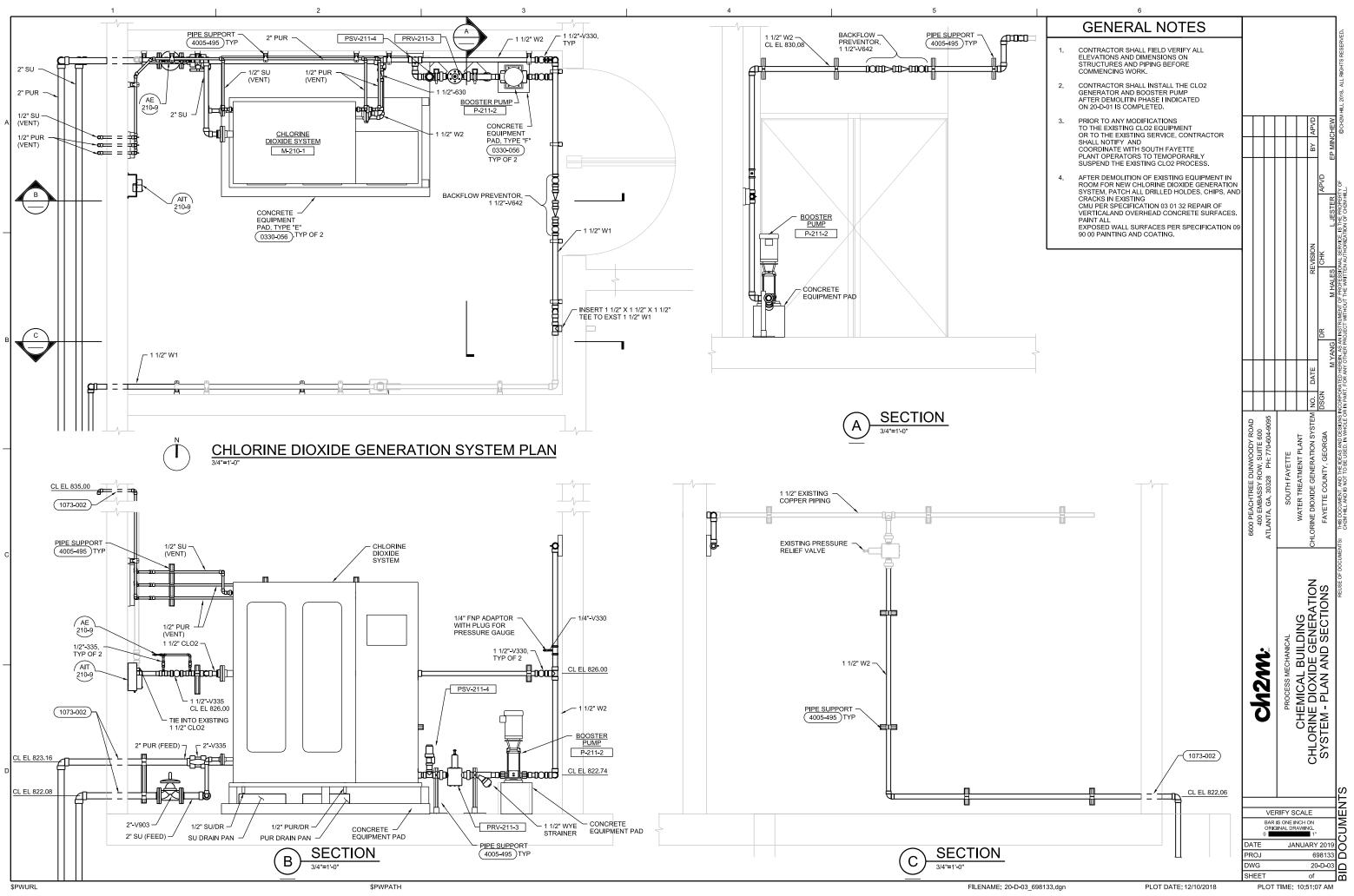
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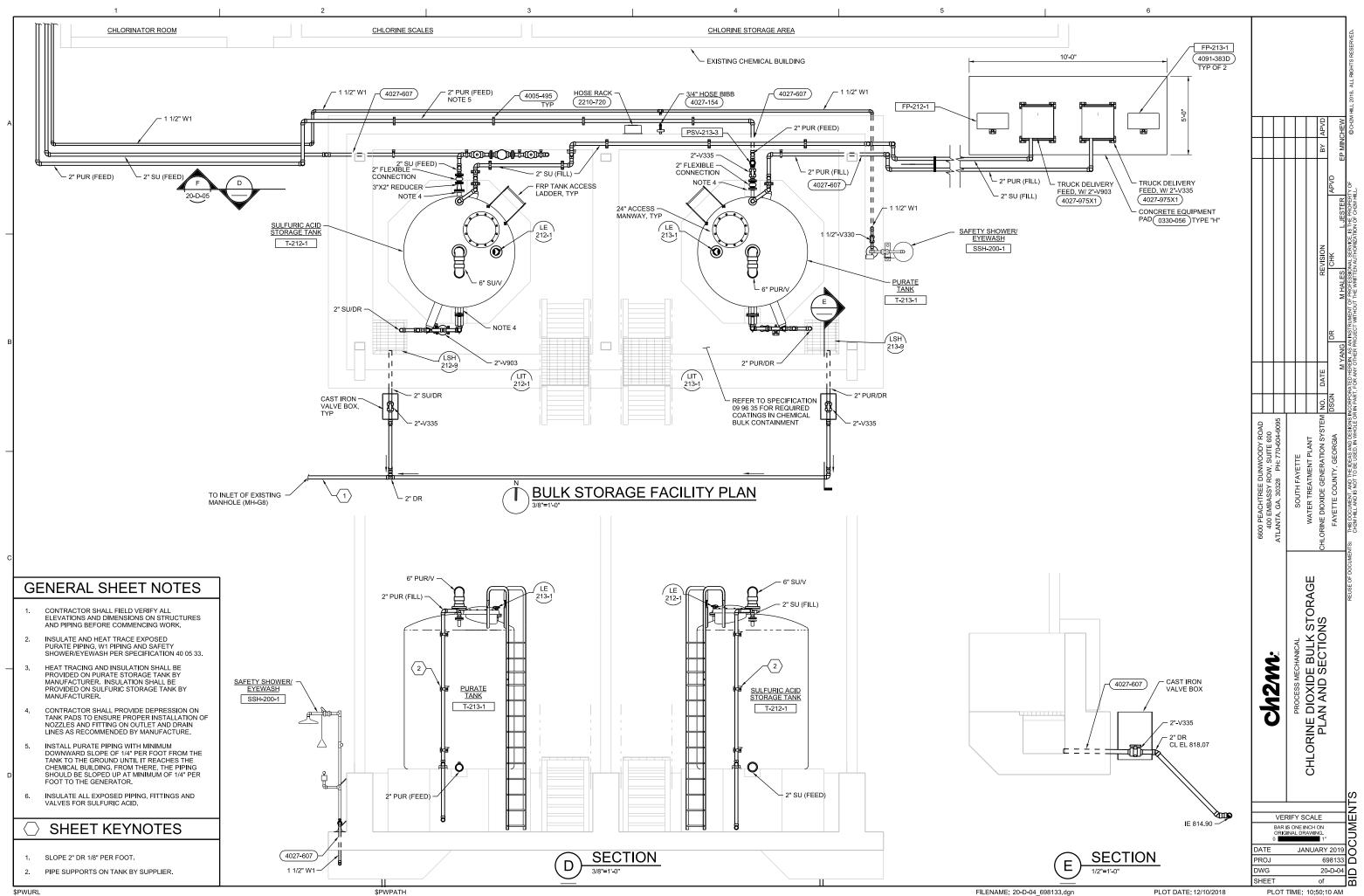


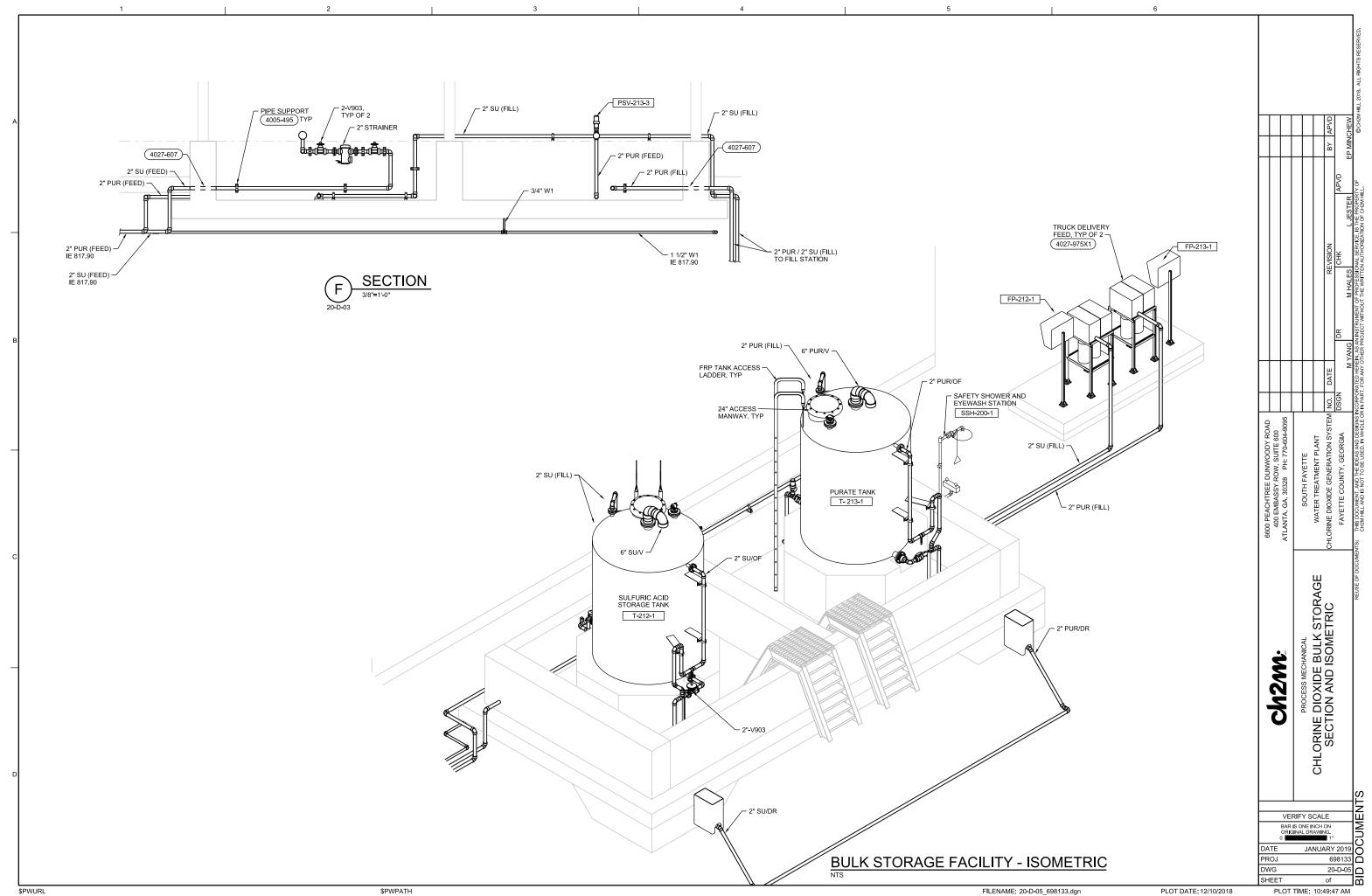
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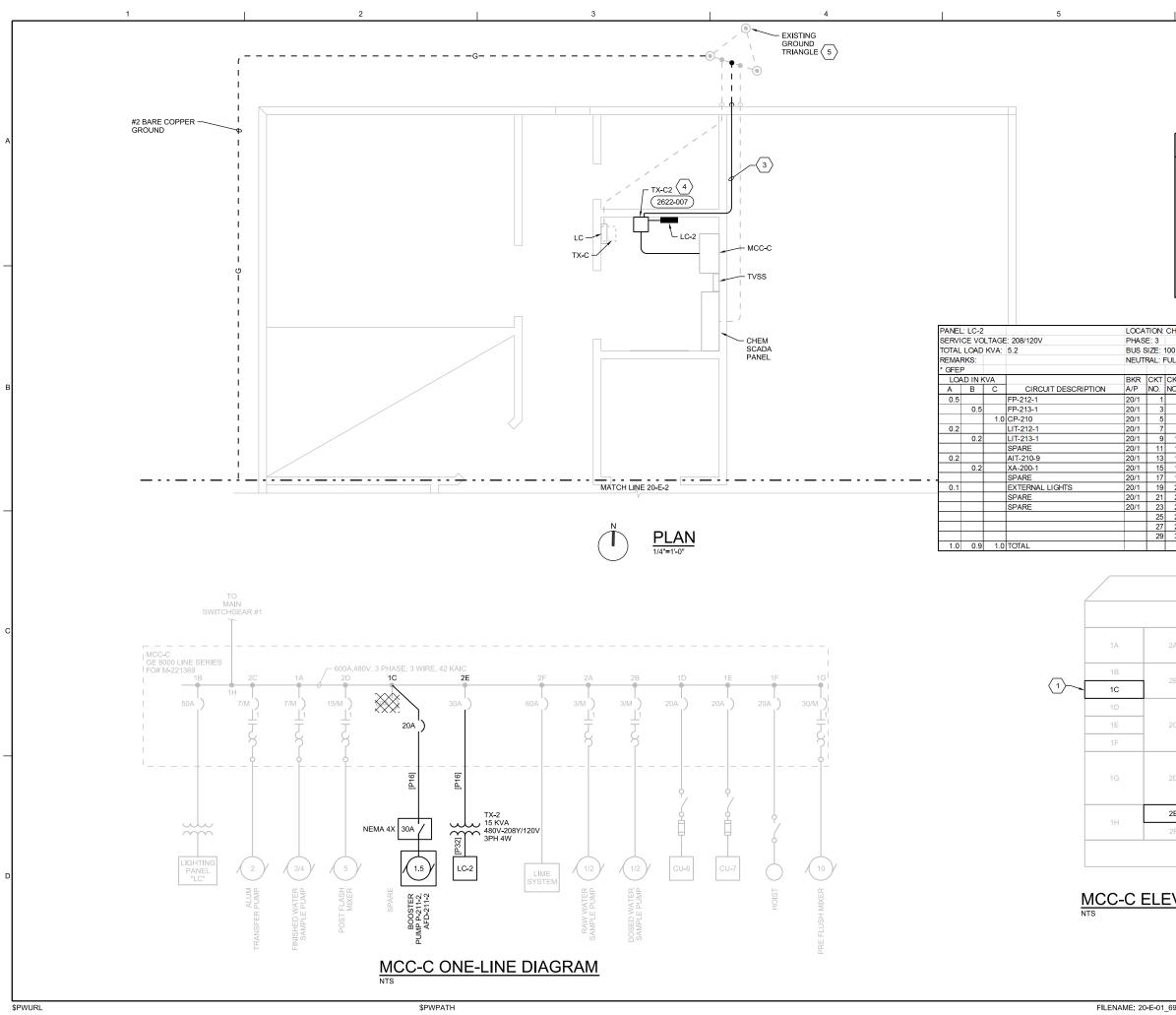


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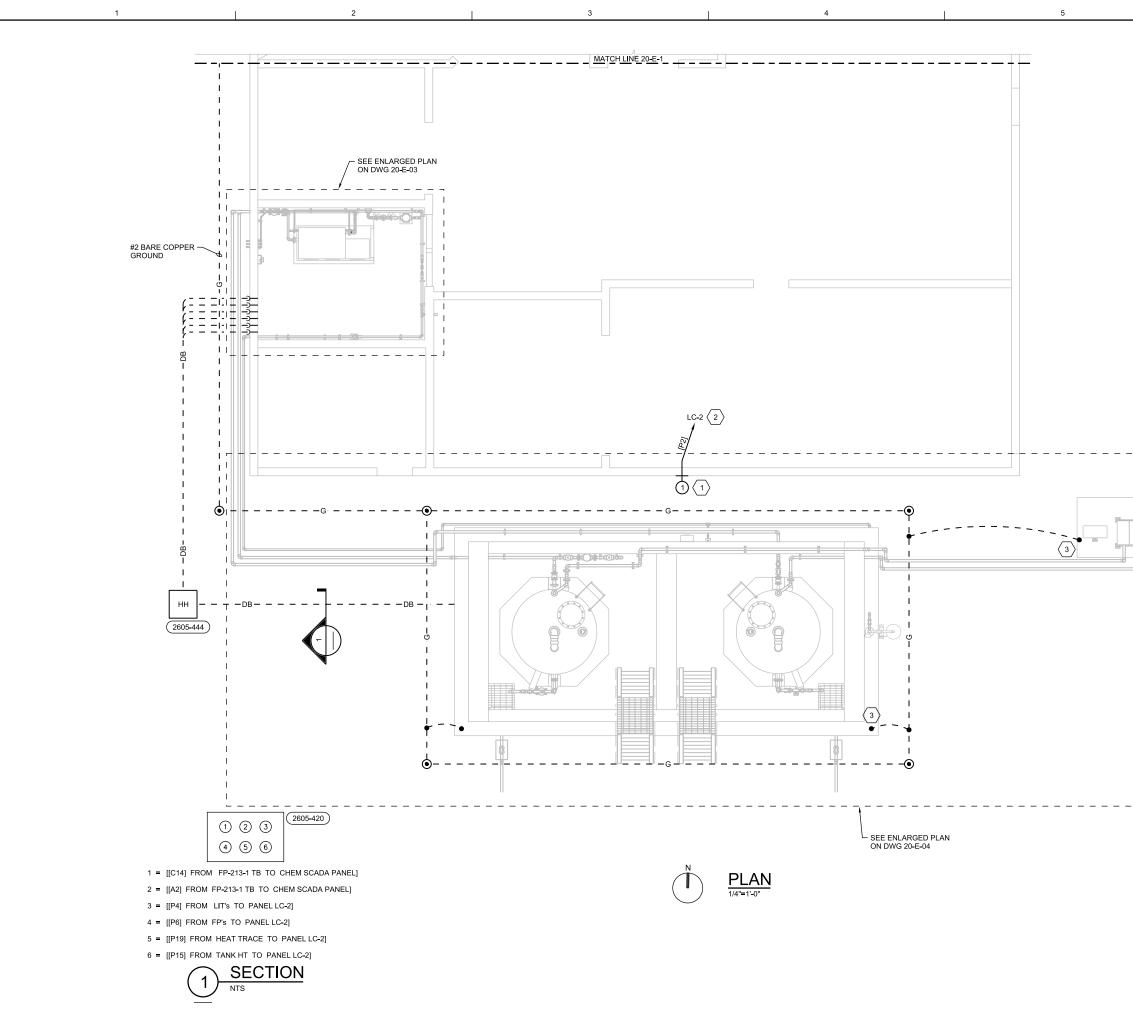




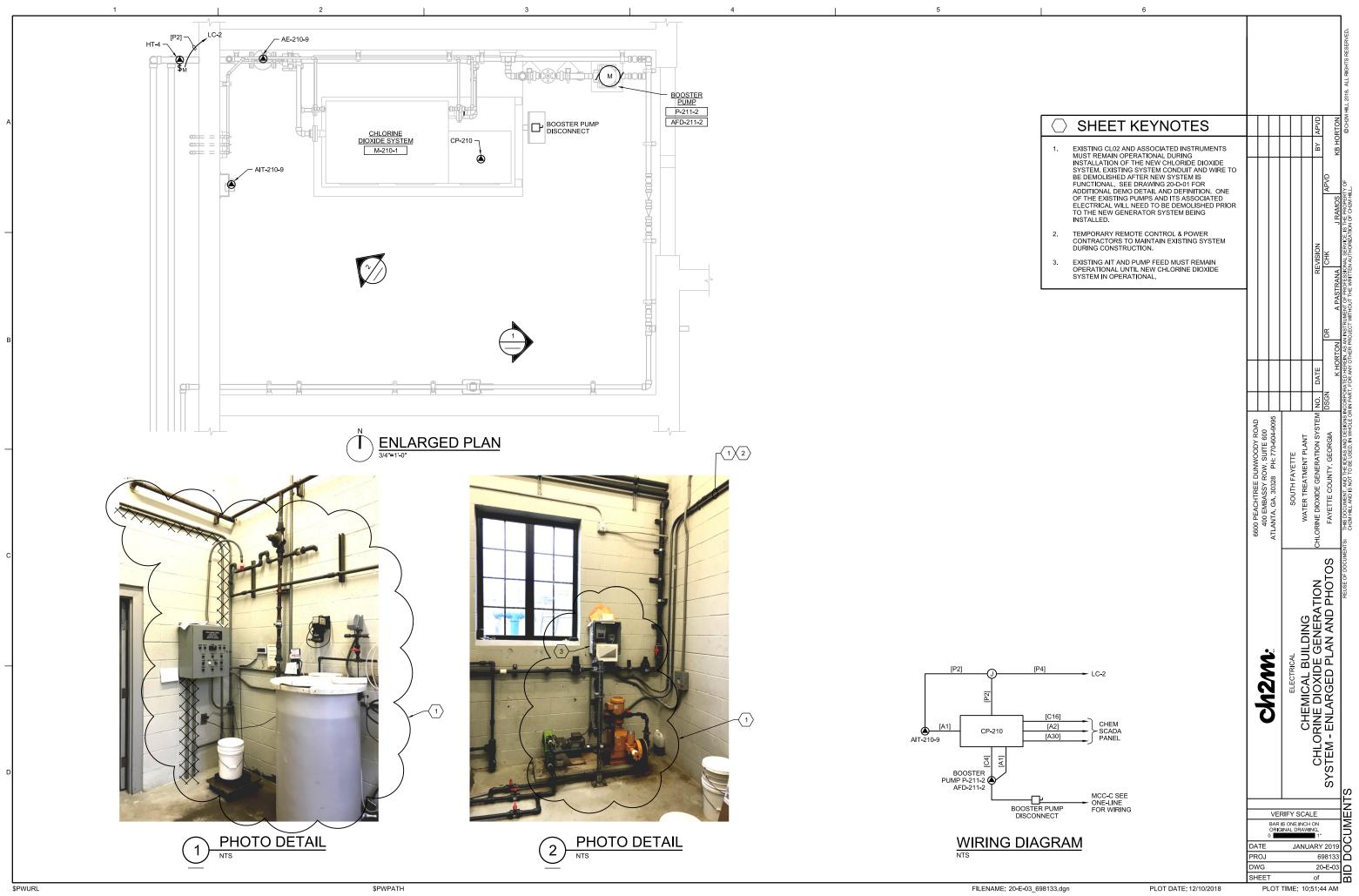


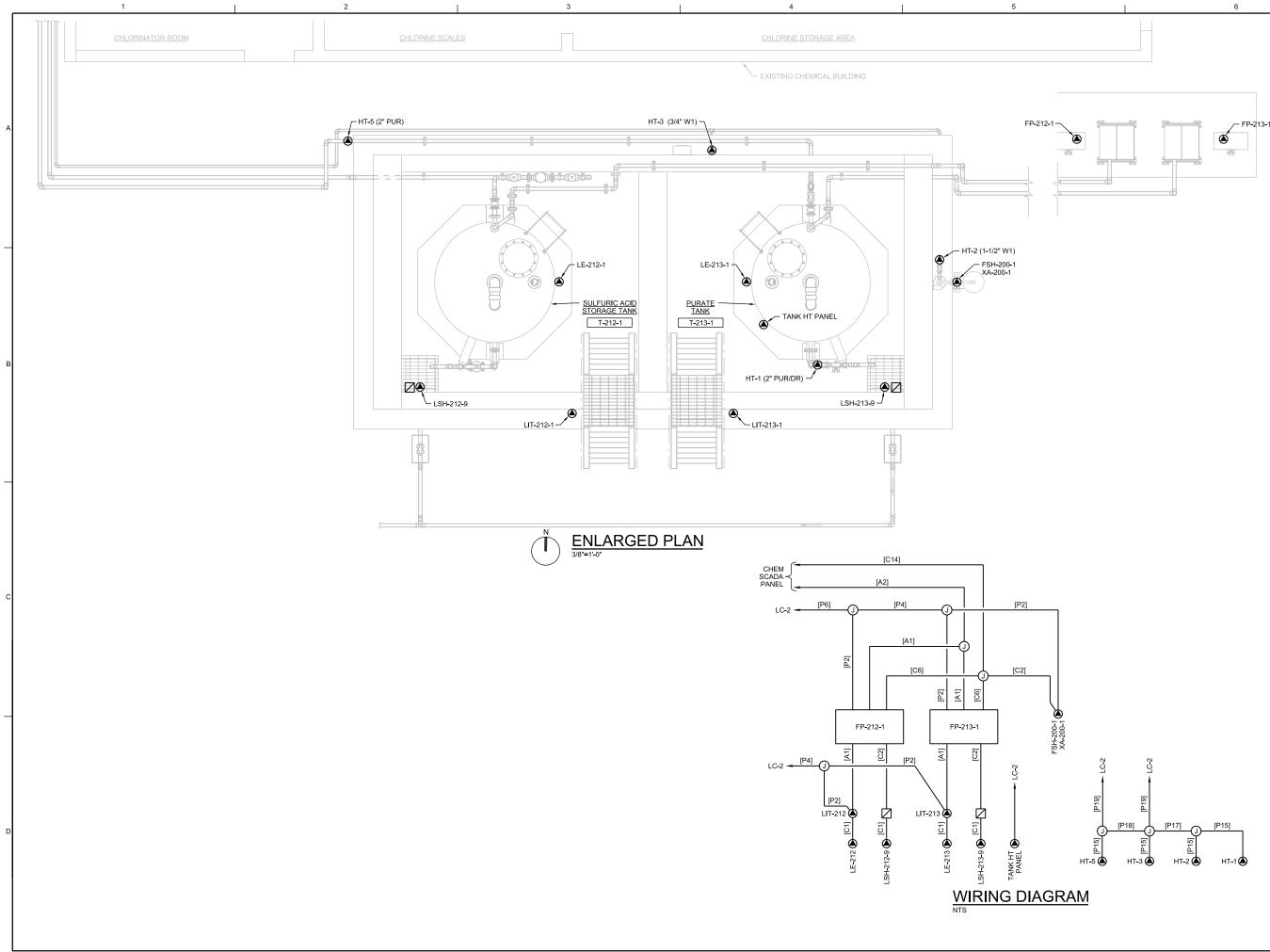
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	F	1.	REPLACE EXISTING 60A/3P CIR	CUIT BREAKER WIT	н		BY /	KB HORTON
		2.	20A/3P BREAKER. REUSE EXISTING 30A/3P CIRCU PANELBOARD.	IIT FOR NEW			T	
		3,	ROUTE #6 GROUND IN PVC CO GROUND GRID.	NDUIT TO EXISTING				APVD Y
		4.	WALL MOUNT TRANSFORMER 6'-6" AFF.					G YARBERRY
		5.	FIELD LOCATE EXISTING GROU LIME PIPING INSTALLED ON NO CHEMICAL FACILITY.		г		sion	FAVETTE COUNTY, GEORGIA DSGN DR GMESSER CHK APV
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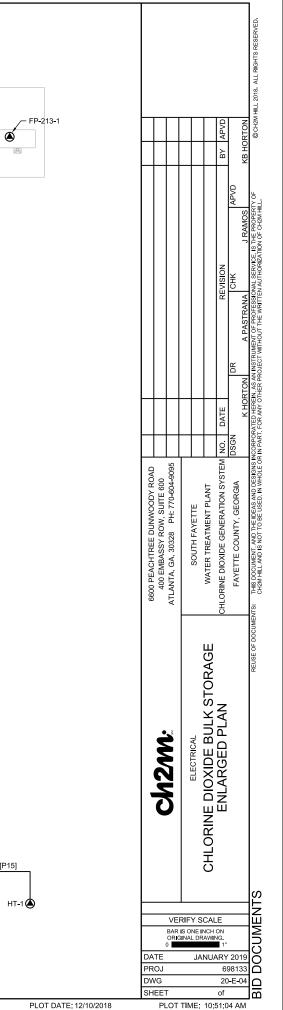
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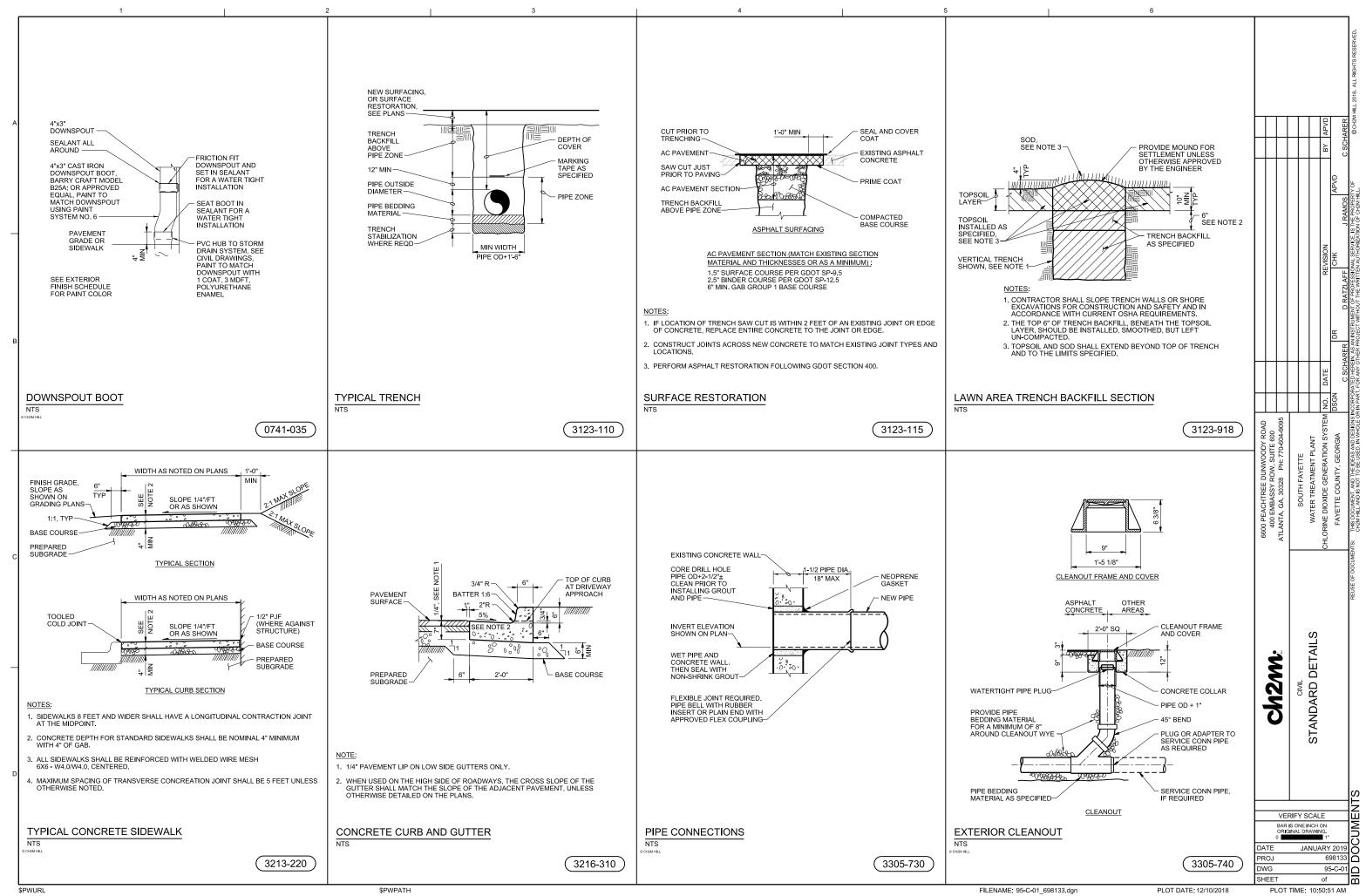


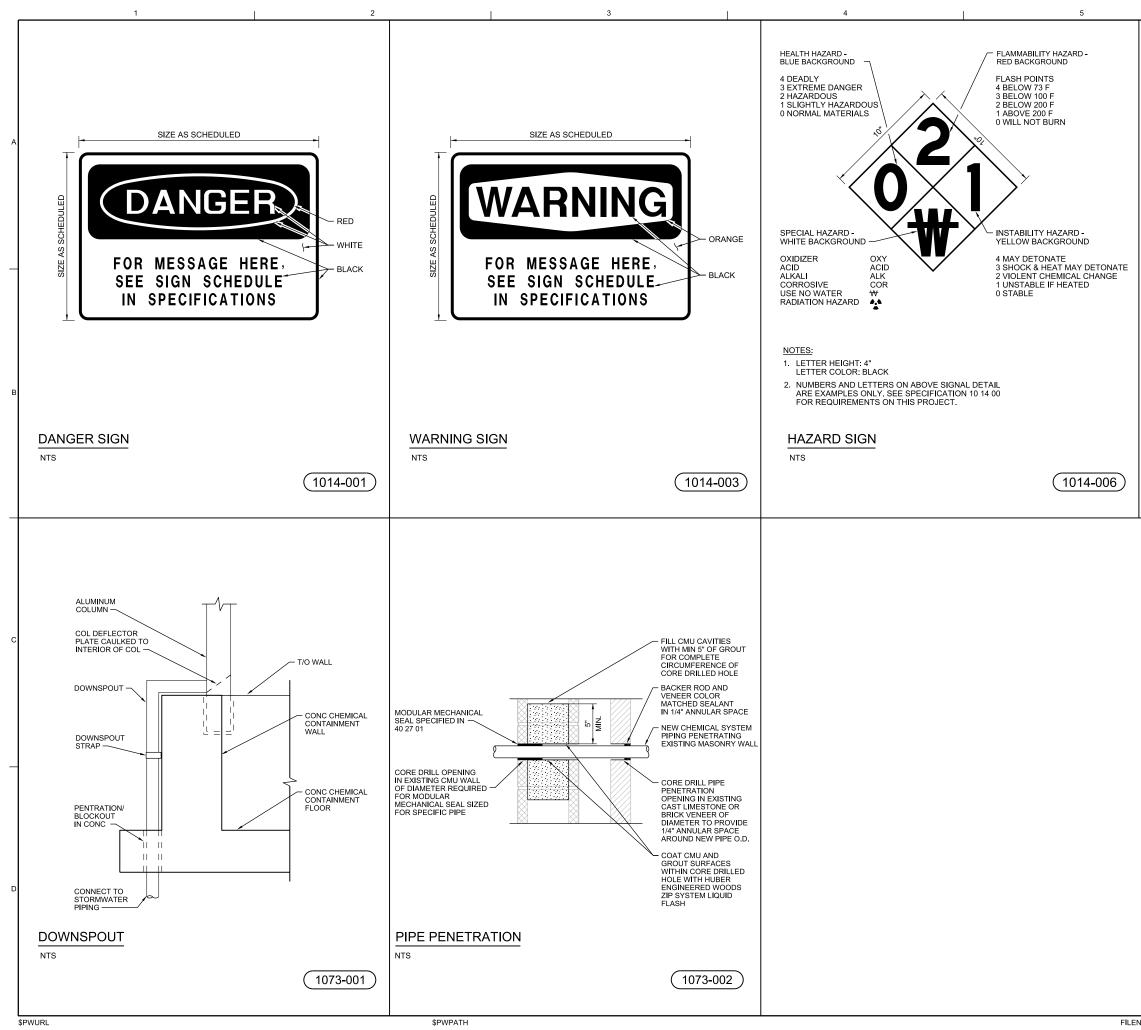
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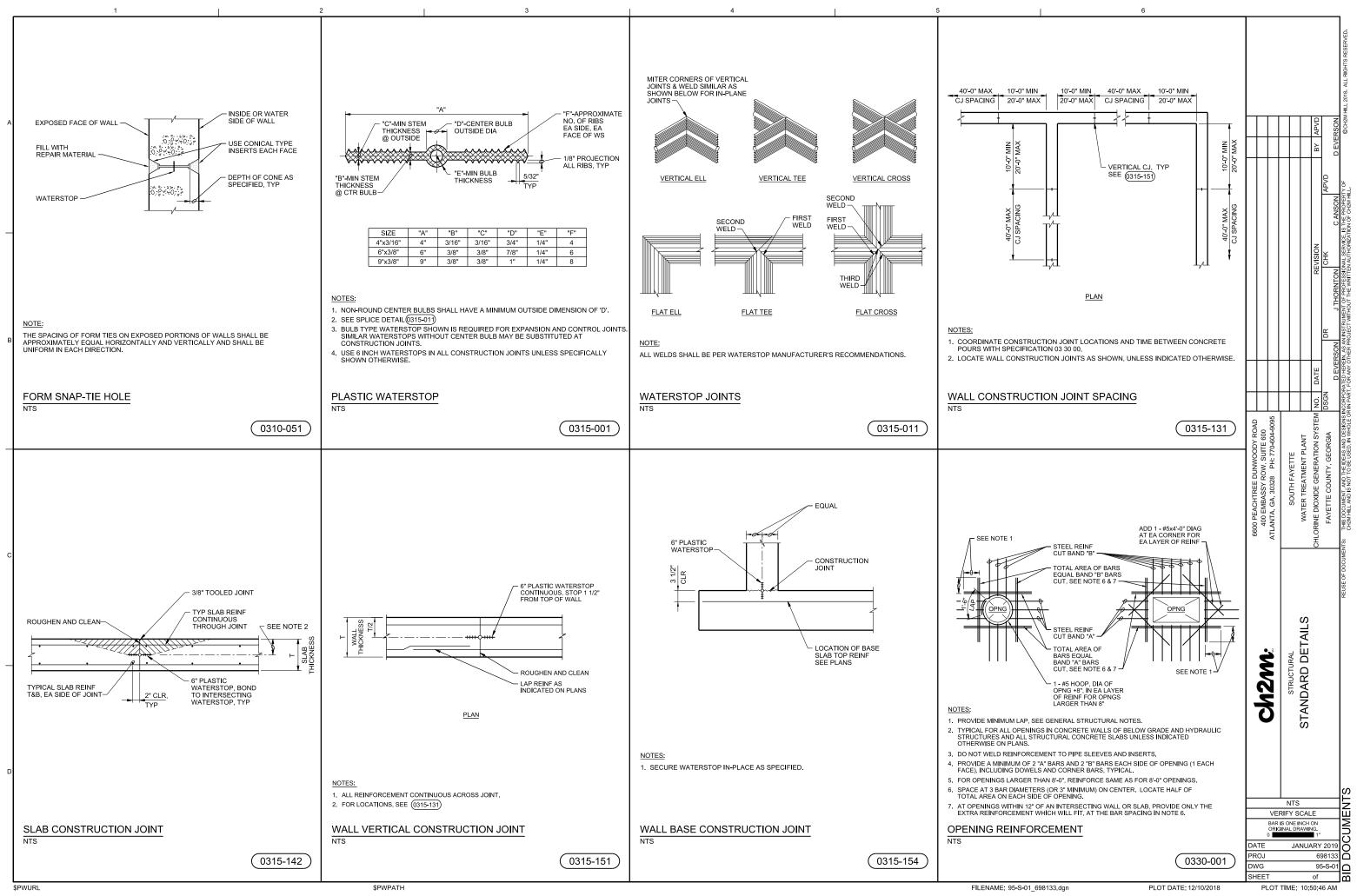


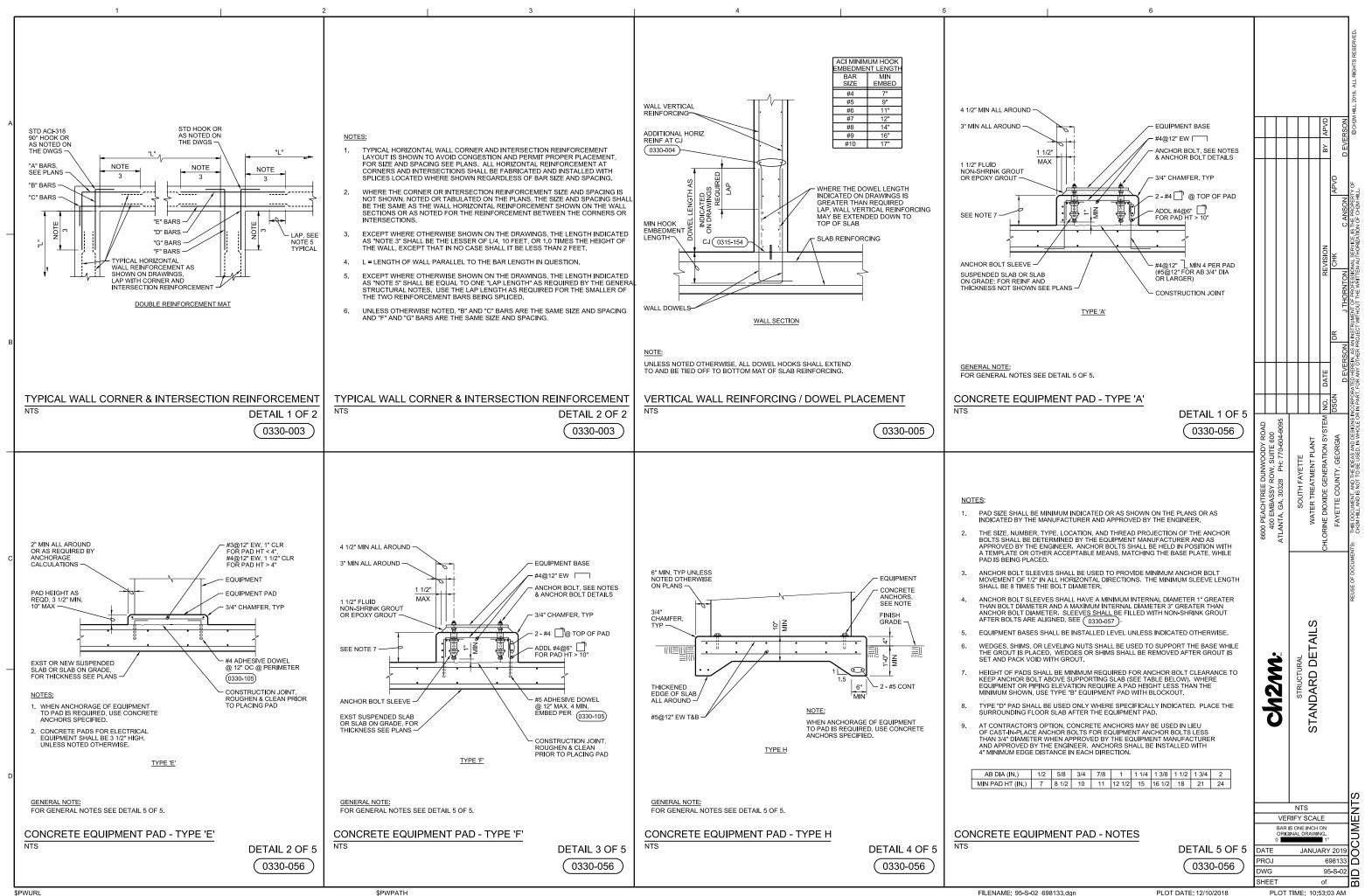




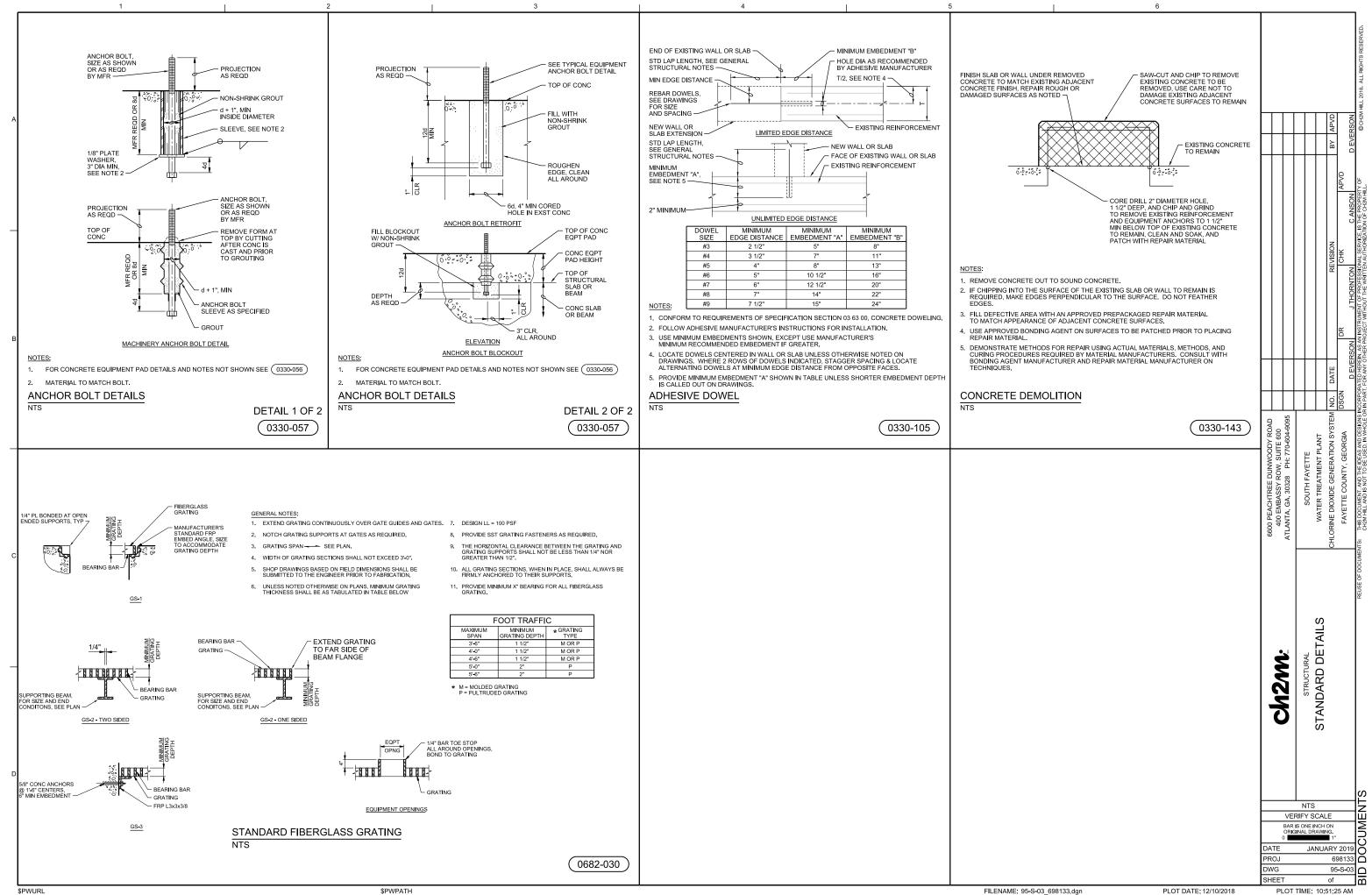


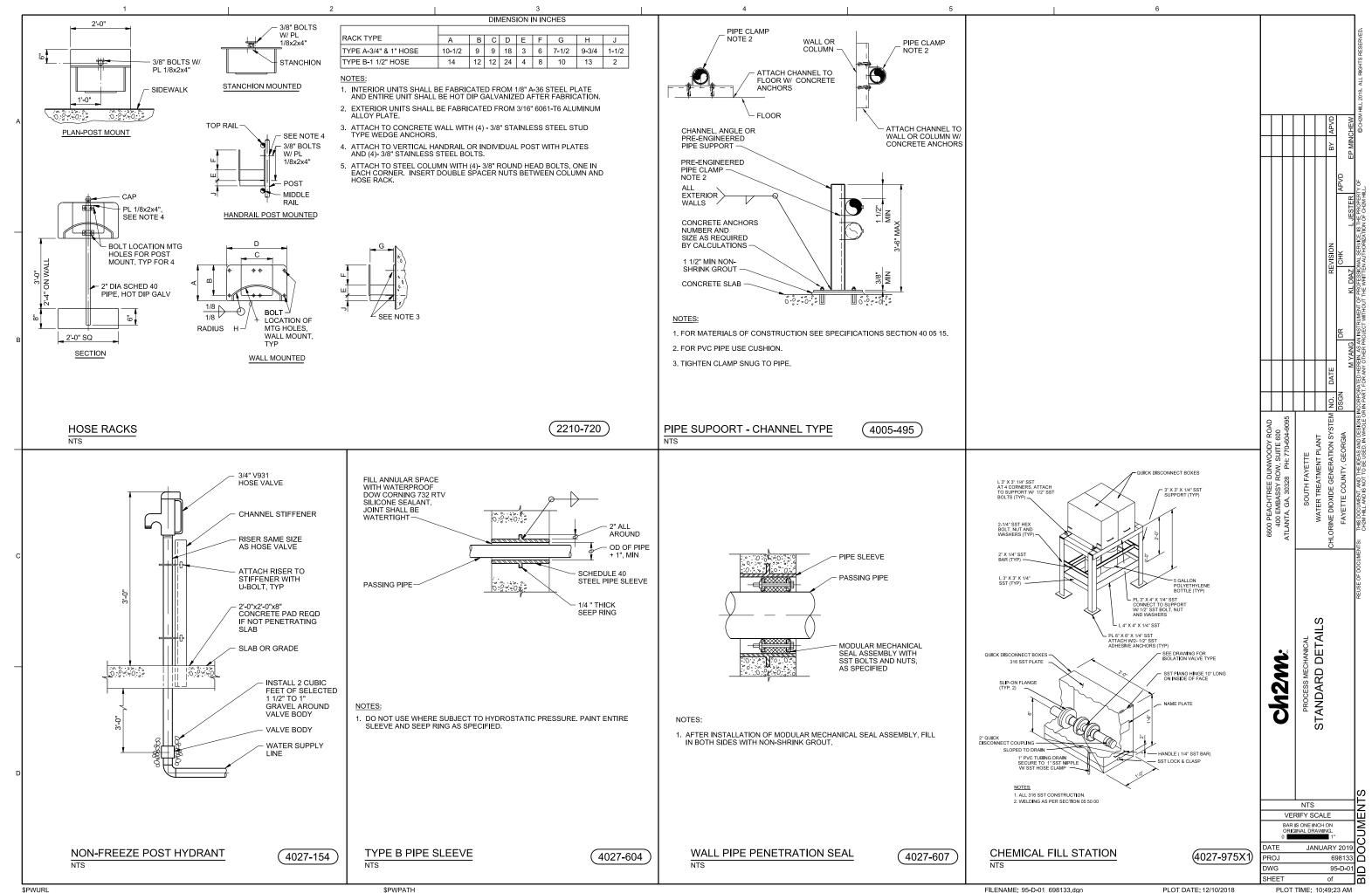
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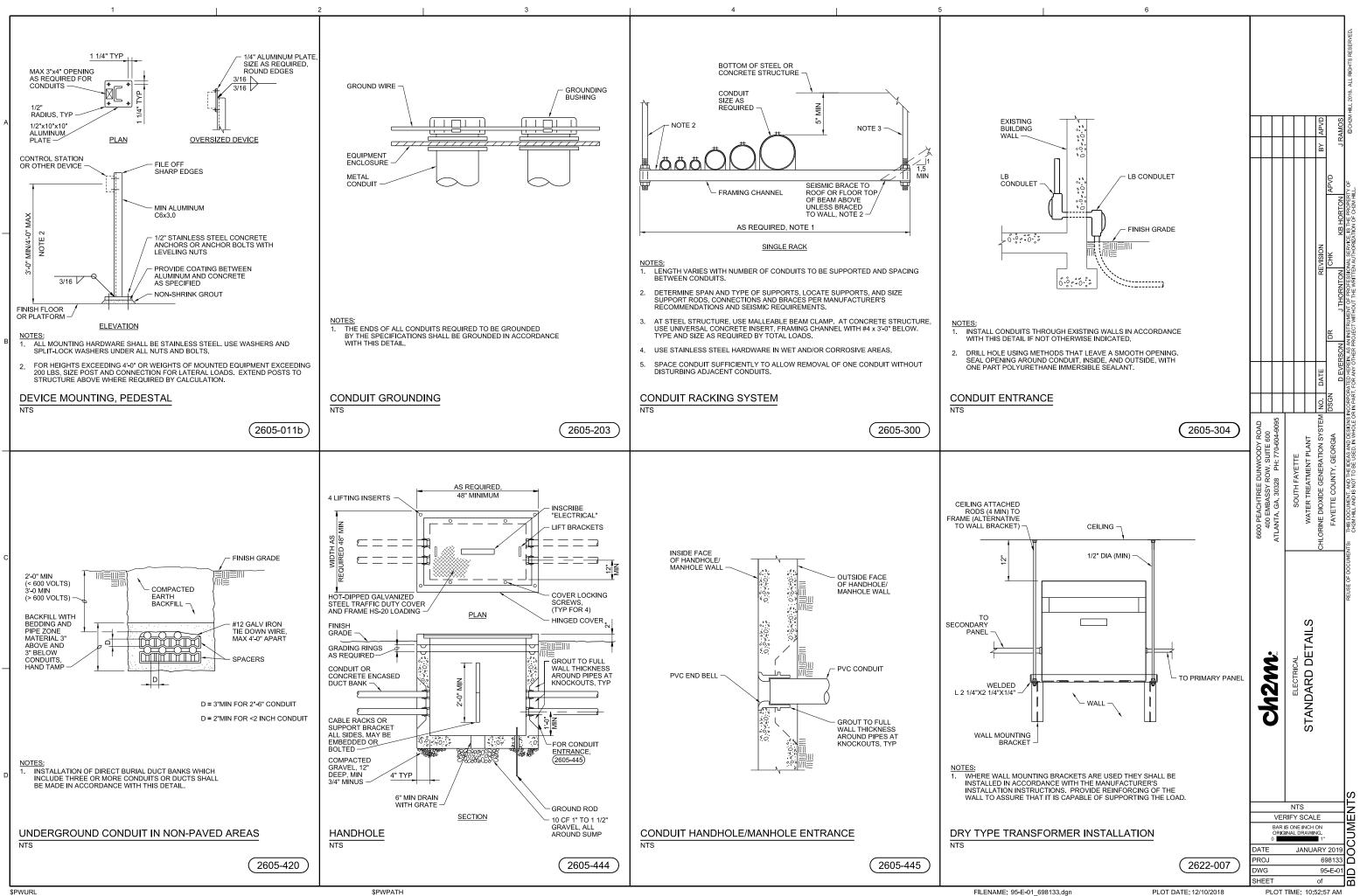


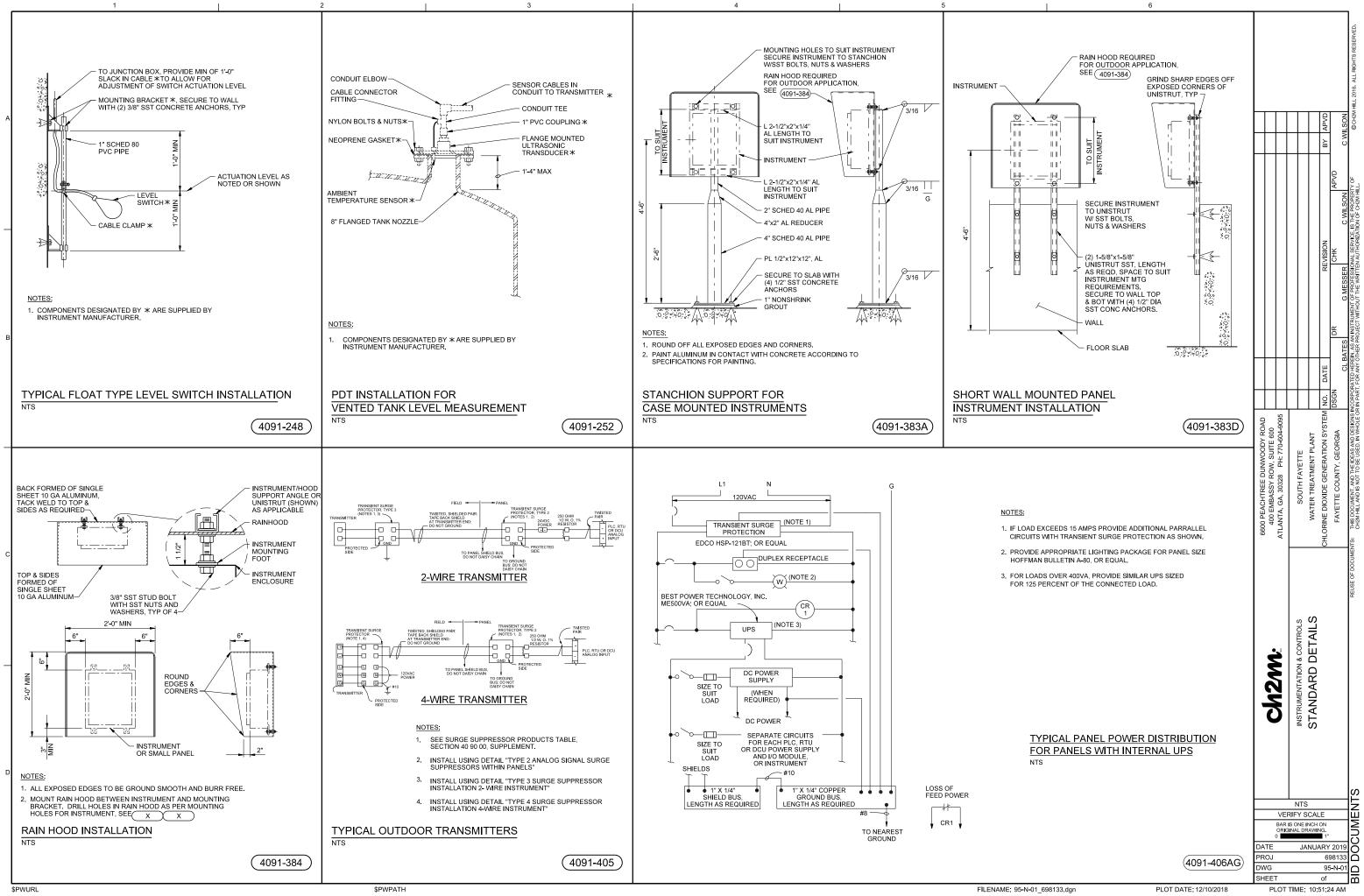


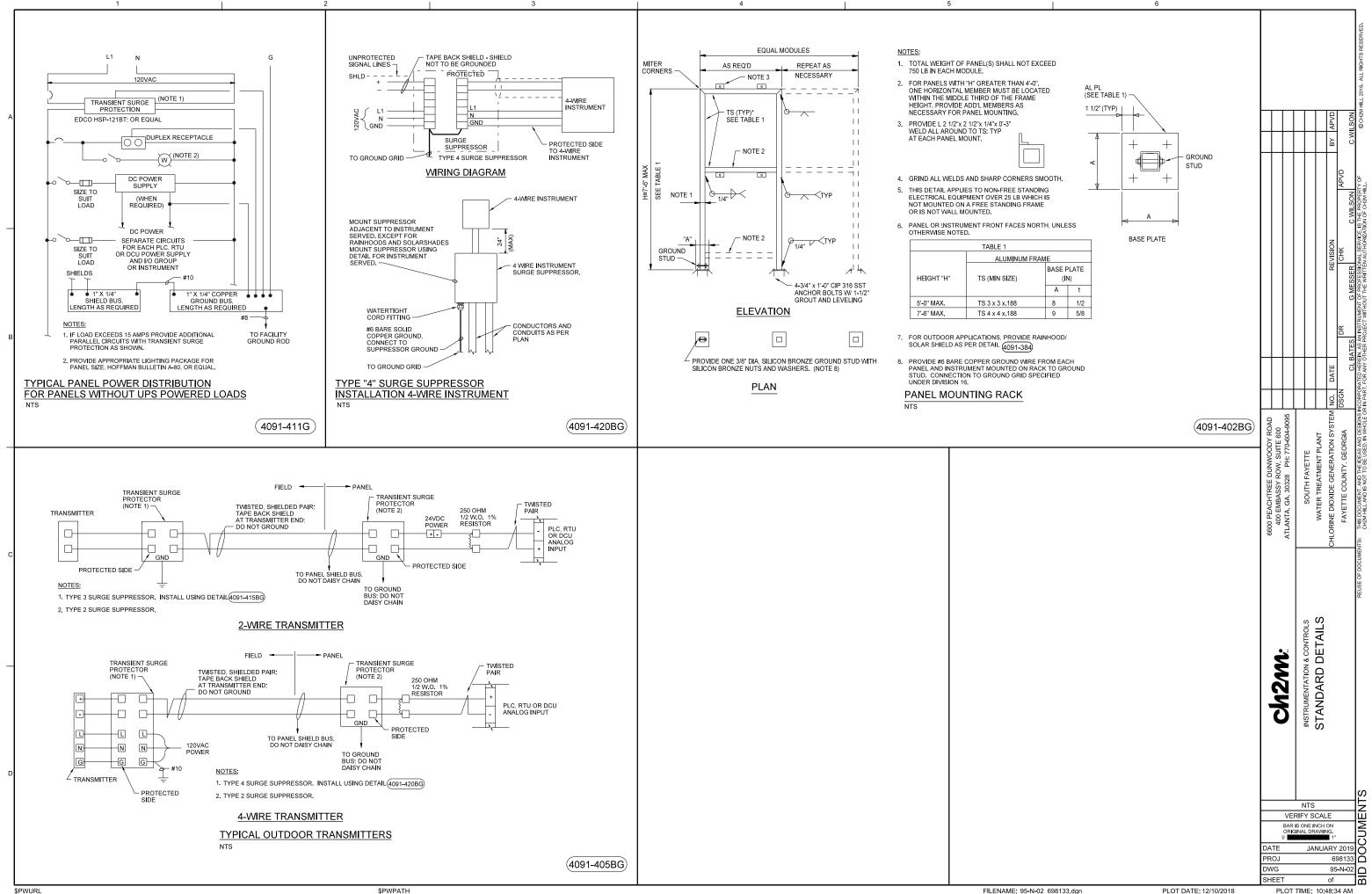
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