CONSTRUCTION DRAWINGS

FOR

CITY OF VALDOSTA, GEORGIA

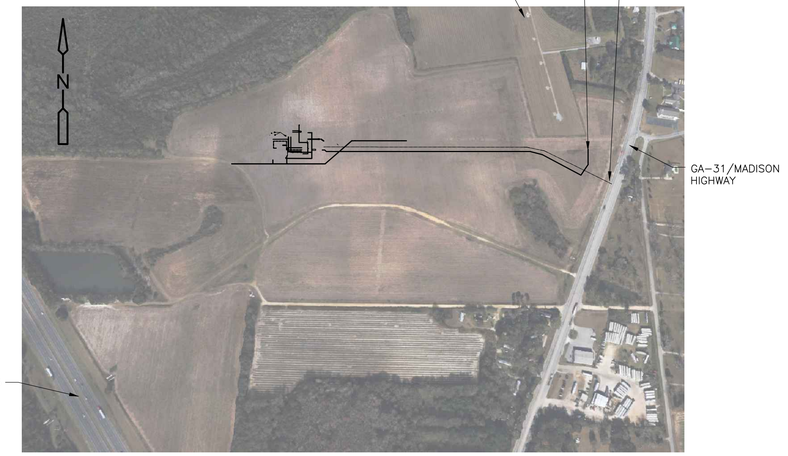
VALDOSTA WATER TREATMENT PLANT (WTP) NO. 2 AND PRODUCTION WELLS

LOCATION MAP
SCALE: NTS

VICINITY MAP
SCALE: NTS

N

JULY 2025



LOCATION MAP
SCALE: NTS

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JACKSONVILLE, FL 32256
TEL: (904) 731-7109
COA NO. PEF000106; EXP. DATE 06/30/26

PROJECT NUMBER: 20790-289282

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GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

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GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

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GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

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STATE OF GEORGIA MICHAEL T. ALFORD CERTIFICATE NO. 012782 REGISTERED ARCHITECT

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GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

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SD-5	STANDARD STAIR DETAILS
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GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

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GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

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GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY JR.

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GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SIGNATURE SHEET

PROJECT NO. 20790-289282
FILE NAME: G0ANFSI.DWG

SHEET NO.
G-0-A

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SHEET INDEX

PROJECT NO. 20790-289282
FILE NAME: G001NFIN.DWG

SHEET NO.
G-1

ISSUED FOR BID

GENERAL NOTES

1. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

2. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCHMARKS, IS REQUIRED PRIOR TO SCHEDULING FINAL INSPECTION.

3. ELEVATIONS SHOWN HEREON ARE RELATIVE TO NAVD 1988 AND NAD83 GA WEST ZONE AND ARE BASED ON BENCHMARKS AS SHOWN ON THE SURVEY. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE FEATURES AFFECTING HIS WORK.

   TOPOGRAPHIC SURVEY WAS PERFORMED BY:
   GUESS & LOVELL
   3998 INNER PERIMETER ROAD, SUITE A
   VALDOSTA, GEORGIA 31602

4. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PHYSICALLY VERIFY LOCATION OF ALL UTILITIES, ABOVE AND BELOW GROUND AND NOTIFY CITY OF VALDOSTA AND GEORGIA 811 UTILITY PROTECTION CENTER 72 HOURS PRIOR TO DIGGING IN ANY PORTION OF THE SITE.

5. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON FINDING ANY CONFLICTS DURING CONSTRUCTION ON ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.

6. THE CONTRACTOR SHALL NOTE ALL EXISTING UTILITIES ENCOUNTERED DURING EXCAVATION AND INCLUDE ON AS-BUILT DRAWINGS.

7. THE CONTRACTOR SHALL, BY REPAIR OR REPLACEMENT, RETURN TO EQUAL OR BETTER CONDITION ALL PAVEMENT, SIDEWALK, LAWNS, UTILITIES AND OTHER OTHER ITEMS DAMAGED BY THIS CONSTRUCTION ACTIVITY.

8. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA, AND DESIGNATED WETLAND AREA OWNER'S EASEMENTS OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS.

9. ALL BRUSH, STRIPPING OR UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE. HOWEVER, NONE OF THE WASTE MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT PERMISSION OF THE OWNER. DISPOSAL OF ALL MATERIALS OFF-SITE SHALL BE IN A REGULATORY COMPLIANT MANNER.

10. NO REPRESENTATION IS MADE REGARDING BALANCED EARTHWORK. ANY EXCESS MATERIAL, OR MATERIAL NOT SUITABLE FOR USE AS BACKFILL, SHALL BE HAULED AWAY TO AN APPROVED DISPOSAL FACILITY AT THE CONTRACTOR'S EXPENSE, AND WHERE NECESSARY, SUITABLE FILL AND BACKFILL SHALL BE PROVIDED AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

11. THE LOCATION OF THE SOIL BORINGS, ARE APPROXIMATE AND AS SHOWN ON THE CIVIL SHEETS, ARE FOR THE CONTRACTOR'S CONVENIENCE. THE PLAN VIEW LOCATION IS APPROXIMATE. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY TTL, DATED JUNE 2024. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONCLUSIONS HE MAY DEVELOP BASED UPON THE SOIL BORING INFORMATION, INCLUDING THE COMPOSITION OF THE MATERIAL TO BE ENCOUNTERED.

12. THE CONTRACTOR SHALL REFER TO THE SUBSURFACE INVESTIGATIONS DATA FOR SOFT DIG LOCATIONS AND INFORMATION GATHERED DURING DESIGN. SUBSURFACE INVESTIGATIONS AND SOFT DIG DATA ARE INCLUDED ON THE CIVIL DRAWINGS AND AS AN APPENDIX IN THE TECHNICAL SPECIFICATIONS.

13. IN ALL CASES WHERE NOTES, SPECIFICATIONS, SKETCHES, DIAGRAMS, DETAILS OR SCHEDULES IN THE SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, CONFLICT SUPPLIER, MODEL, CAPACITY, AND/OR MATERIALS OF CONSTRUCTION, THE HIGHER COST REQUIREMENT SHALL BE FURNISHED BY THE CONTRACTOR, UNLESS OTHERWISE DIRECTED BY ENGINEER AND AGREED TO BY THE OWNER.

14. AREAS FOR STAGING/STORAGE AND STOCKPILE AREA ARE SHOWN ON SHEET CE-4, 5, AND 6. CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK AND KEEP THESE AREAS ACCESSIBLE AND MAINTAIN ACCESS TO THE WORK AREAS. ADDITIONAL AREAS FOR STAGING/STORAGE AND STOCKPILE ARE TO BE COORDINATED WITH CITY OF VALDOSTA. CONTRACTOR IS REQUIRED TO PROVIDE 6 FOOT TALL SECURITY CONSTRUCTION FENCE TO RESTRICT ACCESS TO THE WTP SITE AND THE PRODUCTION WELLS DURING CONSTRUCTION ACTIVITIES AND UNTIL THE WORK IS COMPLETE AND THE PERMANENT FENCE IS IN PLACE.

15. EROSION CONTROL AND SEDIMENTRATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION. THEY SHALL BE INSTALLED TO THE LIMITS SHOWN IN DRAWINGS CE-1 THROUGH CE-10 AND IN SPECIFICATION SECTION 312500 AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS (SEE EROSION CONTROL NOTES).

16. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL, PROTECTION AND REPLACEMENT OF ITEMS ON PRIVATE PROPERTY AND PUBLIC RIGHTS OF WAY SUCH AS SPRINKLERS, FENCES, SOD, SHRUBS, TREES AND SURVEYING MARKERS, ETC.

17. THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR, INCLUDING RESTRICTIONS AND REQUIREMENTS BY FAA FOR THE NEARBY VALDOSTA REGIONAL AIRPORT. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS SHALL BE WITHIN THE LIMITS OF CONSTRUCTION.

18. IN AREAS REQUIRING FILL MATERIAL, THE CONTRACTOR WILL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SODS, HEAVY GROWTH OF GRASS, DECAYED VEGETABLE MATTER, RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS STARTED. IMMEDIATELY PRIOR TO THE REPLACING OF FILL MATERIALS, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED.

19. CONTRACTOR TO NOTE ALL EXISTING UTILITIES ENCOUNTERED DURING EXCAVATIONS AND TIE-IN LOCATION NEAR VALDOSTA REGIONAL AIRPORT AND INCLUDE THEM ON THE AS-BUILT DRAWINGS.

20. TRAFFIC CONTROL DEVICES SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) OR AS DIRECTED BY THE ENGINEER.

21. CONTRACTOR SHALL INSTALL ANY ADDITIONAL AIR RELEASE VALVES AT PRESSURE PIPE HIGH POINTS OF 2 FEET OR MORE DUE TO ACTUAL FIELD CONDITIONS OR CONFLICTS NOT IDENTIFIED ON THESE DESIGN PLANS.

22. IF THE CONTRACTOR DECIDES THAT A TREE NEEDS TO BE REMOVED AND IT WAS NOT IDENTIFIED ON THE PLANS THEN HE/SHE NEEDS TO APPLY FOR THE TREE REMOVAL PERMIT FROM THE CITY OF VALDOSTA.

23. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF VALDOSTA LAND DEVELOPMENT REGULATIONS (ISSUED DECEMBER 2008, AMENDED JUNE 2015), CITY OF VALDOSTA STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION (JULY 2012), GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS (MARCH 2021), AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS (JANUARY 2021).

24. CONTRACTOR SHALL SUBMIT A DETAILED START-UP AND TESTING PROTOCOL IN ACCORDANCE WITH SECTIONS 017900 AND 019113.

MINIMUM GEOTECHNICAL RECOMMENDATIONS

1. THE CONTRACTOR SHALL REFER TO GEOTECHNCIAL EVALUATIONS PREPARED BY TTL, INC (VALODSTA, GA) DATED APRIL 9, 2024. SOIL BORING LOCATIONS ARE APPROXIMATE. SOILS EXPLORATION WORK IS SOLELY TO ASSIST BIDDERS IN ASSESSING THE NATURE AND EXTENT OF TESTING PROCEDURES REQUIRED TO MAKE THEIR OWN DETERMINATION OF ACTUAL CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. PRIOR TO BIDDING, BIDDERS ARE DIRECTED TO CONDUCT WHAT INVESTIGATION THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING SUCH CONDITIONS.

2. THE CONTRACTOR SHALL ANTICIPATE THAT DEWATERING MIGHT BE REQUIRED DURING EXCAVATION, CONSTRUCTION, BACKFILLING AND COMPACTION. THE CONTRACTOR SHALL PROVIDE A DEWATERING SYSTEM IN ACCORDANCE TO THE CONTRACT SPECIFICATIONS.

3. SEE SECTION 312000 "EARTHWORK" FOR COMPACTION REQUIREMENTS.

4. IF SOFT AND/OR UNSUITABLE AREAS BECOME EVIDENT, THE AREA SHALL BE OVER-EXCAVATED AND REPLACED WITH SUITABLE SOIL.

5. STOCKPILING OF THE EXCAVATED MATERIALS AT THE TOP OF THE SLOPE IS PROHIBITED.

6. ALL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIALS, SUCH AS ROOTS AND VEGETATION. THE MEANS AND METHODS OF PLACING AND COMPACTING THE FILL IS THE CONTRACTOR'S RESPONSIBILITY. PROPER COMPACTION EQUIPMENT AND METHODOLOGY WILL BE IMPORTANT TO BE ABLE TO COMPACT THESE SOILS TO THE NECESSARY DENSITIES.

UTILITY CONTACTS

1. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATES ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

UTILITY CONTACTS

JASON BARNES
CITY OF VALDOSTA
DEPARTMENT OF UTILITY SERVICES
1016 MYRTLE STREET
VALDOSTA, GA 31603
229-259-3592

ROBBIE HASTING
GEORGIA POWER
404 EAST MCPHERSON AVENUE
VALDOSTA, GEORGIA 31639
229-241-2268

GEORGIA 811
(UNDERGROUND UTILITIES MARKOUT)
CALL 811 OR 1-800-272-1000

LOWNDES COUNTY BOARD OF COMMISSIONERS
(229) 671-2700

VALDOSTA ENGINEERING SERVICES DIVISION
(229) 259-3530

TIM HOOD
VALDOSTA REGIONAL AIRPORT
1750 AIRPORT ROAD SUITE 1
VALDOSTA GA, 31601
229-333-1833 EXT 102

CHARLES BUCKNER
MEDIA COM
275 NORMAN DRIVE
VALDOSTA, GA 31602
229-244-3852

ATLANTA GAS & LIGHT
10 PEACHTREE PLACE
ATLANTA, GA 30309
404-584-4338

COLQUITT ELECTRIC MEMBERSHIP
CUSTOMER SERVICE
(229) 985-3620

VALDOSTA WATER AND SEWER SERVICES
CUSTOMER SERVICE
(229) 241-8285

GEORGIA811 www.Georgia811.com
Contact 811 before you dig.

72 HOURS NOTICE IS REQUIRED TO GEORGIA 811 UTILITY PROTECTION CENTER BEFORE ANY PLANNED DIGGING

TELEPHONE NUMBER: 1-800-282-7411

GEORGIA REGISTERED No. PE011453 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
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DATE: JULY 2025

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GENERAL NOTES

PROJECT NO. 20790-289282
FILE NAME: G002NFNL.DWG

SHEET NO.
G-2

ISSUED FOR BID

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ABBREVIATIONS AND LEGEND

ARV	– AIR RELEASE VALVE	
AVV	– AIR/VACUUM RELIEF VALVE	
BC	– BOTTOM OF CURVE	
℄	– BASE LINE	
BLS	– BELOW LAND SURFACE	
B.M.	– BENCHMARK	
BTW	– BETWEEN	
BOC	– BACK OF CURB	
C	– CUT	
CB	– CHORD BEARING	
C.B.	– CATCH BASIN	
C.E.P.	– CITY ELECTRIC POLE	
C.I.	– CAST IRON	
C&G	– CURB & GUTTER	
CMP	– CORRUGATED METAL PIPE	
CMF	– CONCRETE MONUMENT FOUND	
℄	– CENTERLINE	
CLA	– CENTERLINE OF ASPHALT	
CLDI	– CONCRETE LINED DUCTILE IRON	
CLF	– CHAIN LINK FENCE	
CH	– CHORD DISTANCE	
CPP	– CONCRETE POWER POLE	
CPP	– CORRUGATED PLASTIC PIPE	
CONC.	– CONCRETE	
CONST.	– CONSTRUCTION	
CULV.	– CULVERT	
D.B.I	– DITCH BOTTOM INVERT	
DB	– DIRECT BURY	
DI	– DUCTILE IRON	
D.W	– DRIVEWAY	
E	– EAST	
EA	– EDGE OF ASPHALT	
ECC	– ECCENTRIC	
ECO	– EXTERIOR CLEANOUT	
ED	– EQUIPMENT DRAIN	
EL	– ELEVATION GRADE	
ELEC	– ELECTRIC	
ELEV	– ELEVATION	
E.O.P.	– EDGE OF PAVEMENT	
ERCP	– ELLIPTICAL REINFORCED CONC. PIPE	
EXP. JT	– EXPANSION JOINT	
F	– FILL	
FE	– FLOW METER	
FH	– FIRE HYDRANT	
FT	– FEET/FOOT	
FFE	– FINISHED FLOOR ELEVATION	
FIN	– FINISHED	
FL	– FLOW LINE	
FLG	– FLANGED	
FM	– FORCEMAIN	
FOC	– FIBER OPTIC CABLE	
FRP	– FIBERGLASS REINFORCED PLASTIC	
FW	– FINISHED WATER	
GA	– GUY ANCHOR	
GLV	– GALVANIZED	
GPM	– GALLONS PER MINUTE	
GST	– GROUND STORAGE TANK	
GV	– GATE VALVE	
H.C.	– HIGH CURB	
HDPE	– HIGH DENSITY POLYETHYLENE PIPE	
HFAC	– HARNESS FLANGE ADAPTOR COUPLING	
HWL	– HIGH WATER LEVEL	
ID	– IDENTIFICATION	
INT.	– INTERSECTION	
INV	– INVERT	
IP	– IRON PIPE	
IPF	– IRON PIPE FOUND	
IR	– IRON	
LWL	– LOW WATER LEVEL	

MEG	– MATCH EXISTING GRADE
MES	– MITERED END SECTION
MG	– MILLIONS OF GALLONS
MGD	– MILLION GALLONS PER DAY
MH	– MANHOLE
MISC	– MISCELLANEOUS
MJ	– MECHANICAL JOINT
N	– NORTH
NAVD	– NORTH AMERICAN VERTICAL DATUM
N.C.	– NORMALLY CLOSED
N.O.	– NORMALLY OPEN
NO.	– NUMBER
N.T.S.	– NOT TO SCALE
OC	– ON CENTER
O.E.	– OVERHEAD ELECTRIC
OR	– OFFICIAL RECORDS
O.T.	– OVERHEAD TELEPHONE
OVR	– OVERFLOW
OW	– OZONATED WATER
PI	– POINT OF INTERSECTION
PC	– POINT OF CURVATURE
PCC	– POINT OF COMPOUND VURVE
PG	– PAGE
PVC	– POLY VINYL CHLORIDE
PRC	– POINT OF REVERSE CURVTURE
P.R.M.	– PERMANENT REFERENCE MONUMENT
PSI	– POUNDS PER SQUARE INCH
PT	– POINT OF TANGENCY
PW	– POTABLE WATER
R	– RADIUS
R.C.P.	– REINFORCED CONCRETE PIPE
R.D.	– ROOF DRAIN
RE#	– REAL ESTATE NUMBER
RED	– REDUCER
REF	– REFERENCE
RIO	– REMOTE INPUT/OUTPUT
RJ	– RESTRAINED JOINT
RT	– RIGHT
R/W	– RIGHT OF WAY
RAW	– RAW WATER
RW	– RECLAIMED WATER
S	– SOUTH
SAN	– SANITARY SEWER
SB	– SOIL BORING
SD	– SOFT DIG
SS	– STORM SEWER
S/W	– SIDEWALK
SWD	– SIDE WATER DEPTH
STA	– STATION
TC	– TOP OF CURVE
TEL	– TELEPHONE
TOB	– TOP OF BANK
TOP	– TOP OF PIPE
TOW	– TOP OF WALL
TOS	– TOE OF SLOPE/TOP OF SLAB
UG	– UNDERGROUND
UGE	– UNDERGROUND ELETRIC
UGP	– UNDERGROUND POWER
UGT	– UNDERGROUND TELEPHONE
UNK	– UNKNOWN
UON	– UNLESS OTHERWISE NOTED
USC & GS	– UNITED STATES COASTAL & GEODETIC SURVEY
VERT.	– VERTICAL
VFD	– VARIABLE FREQUENCY DRIVE
VPI	– VERTICAL POINT INFLECTION
W	– WEST
W	– WATER
WLP	– WOOD LIGHT POLE
WM	– WATER METER
WPP	– WOOD POWER POLE
WTP	– WOOD TELEPHONE POLE

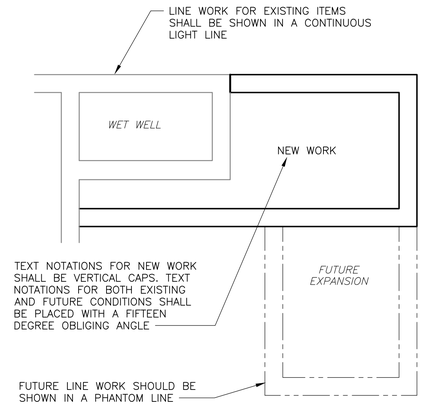
GENERAL LEGEND

	EXISTING	PROPOSED
RIGHT OF WAY LINE		
PROPERTY LINE		
LIMITS OF CONSTRUCTION		L.O.C.
FENCE (HEIGHT & MAT'L. INDICATED)	6' CHAIN LINK	6' CHAIN LINK
DITCH OR SWALE		
DRAIN PIPE		
CATCH BASIN		
STORM DRAIN GRATE		
STORM SEWER (SIZE & MAT'L. INDICATED)	24" RCP	24" RCP
STORM SEWER, REPLACEMENT (IN CASE 10 TRENCH) SIZE, MAT'L. INDICATED		
STORM SEWER (SIZE & MAT'L. INDICATED)		SS
CULVERT W/ENDWALLS (SIZE & MAT'L. INDICATED)	18" CMP	SS 18" CMP
WATER MAIN SIZE, TYPE INDICATED	6" PVC	W 6" PVC
RAW WATER MAIN (IN CASE 10 TRENCH) SIZE, TYPE INDICATED		RAW
GRAVITY SEWER SIZE, TYPE INDICATED	SAN 8" PVC SAN	SS 8" PVC SS
SEWER FORCE MAIN SIZE, TYPE INDICATED	FM 10" PVC FM	FM 10" PVC
LINE VALVE		
CHECK VALVE		
FIRE HYDRANT		
VALVE (TYPE INDICATED)		
END CAP		
PLUG (AT END OF LINE)		
VALVE (TYPE INDICATED)		
REDUCER		
FIRE HYDRANT		OR
SPOT ELEVATION	+ (100.00) OR + 100.00	
MANHOLE – TYPE (IF INDICATED) E – ELECTRIC S – SANITARY D – STORM T – TELEPHONE		MH1
CLEAN OUT	C.O.	
SPRINKLER HEAD	SPR	
FLUSHING VALVE/MARV/SAMPLE TAP (BACTERIOLOGICAL SAMPLING POINT)		SAMPLE TAP NO. TAP NO.
CONCRETE SIDEWALK		
DEMOLITION		
ASPHALT PAVEMENT		
MILL AND RESURFACE OF EXISTING PAVEMENT		
MULCH		

UTILITY SYMBOLS

ELECTRIC POLE OR S.B.T. POLE (WOOD)	PP OR PP (WITH LIGHT)
WOOD POWER POLE	WPP
ELECTRIC POLE OR S.B.T. POLE (CONC.)	PP OR PP (WITH LIGHT)
CONCRETE POWER POLE	CPP
GUY WIRE	
IRON PIPE	I.P.
OVERHEAD ELECTRIC	OHE
UNDERGROUND ELECTRIC	UGE
OVERHEAD TELEPHONE	OT
UNDERGROUND TELEPHONE	UGT
GAS MAIN (SIZE & MAT'L. INDICATED)	GAS
CABLE TELEVISION	CATV
UNDERGROUND COMMS	CU
FIBER OPTIC LINE	FO
UNDERGROUND CABLE (TYPE UNDETERMINED)	UG
TELEPHONE BOX	T
CATV BOX	CATV
CONCRETE MONUMENT	CM
CONCRETE MONUMENT FOUND	CMF
GAS VALVE	
SOIL BORING (NUMBER INDICATED)	B–1
SOFT DIG (NUMBER INDICATED)	SD1
MONITORING WELL (NUMBER INDICATED)	MW
TREE, SIZE & TYPE INDICATED	12" O
SIGN – TYPE INDICATED	OR SIGN
BUSH, SHRUB OR HEDGE	SHRUB
FULL DEPTH ASPHALT PAVEMENT REPLACEMENT	
ASPHALT PAVEMENT OVERLAY	
INDICATES DRIVEWAY/SIDEWALK TO BE AND REPLACED	
AUTOMATIC AIR RELEASE VALVE	A

EXISTING OR FUTURE CONDITION DESIGNATION



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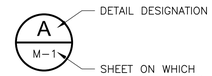

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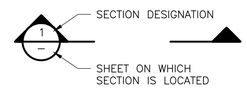

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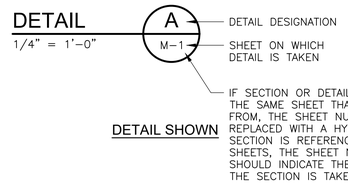

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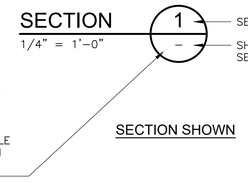
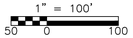


SECTION SHOWN

GENERAL SYMBOLOGY

NORTH ARROW

SCALE



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GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER DIMITRIS M. POLEMATIDIS

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CITY OF VALDOSTA, GA

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AND PRODUCTION WELLS

LEGEND, SYMBOLS, AND ABBREVIATIONS

PROJECT NO. 20790–289282
FILE NAME: G003NFNL.DWG

SHEET NO.
G-3

ISSUED FOR BID

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16" DI RAW WATER BYPASS
TO ATMOSPHERE
SODIUM HYDROXIDE INJECTION POINT
30" FRP DUCT
FAN NO. 2
30" FRP DUCT
FAN NO. 1
BIOTRICKLING FILTER
TO DRAIN
pH SAMPLE (CONTINUOUS)
16" DI
(N.C.)
SODIUM HYPOCHLORITE INJECTION POINT
DEGASIFIER
(N.O.)
(N.C.)
TRANSFER PUMP NO. 1
VFD
10" DI
RAW WATER MAIN
12" PVC
STORAGE BASIN NO. 1
CARBON DIOXIDE INJECTION
BLENDED PHOSPHATES INJECTION
16" DI
SODIUM HYDROXIDE INJECTION POINT
20" DI
TRANSFER PUMP NO. 2
10" DI
pH SAMPLE (CONTINUOUS)
STORAGE BASIN INTERCONNECTION TO FUTURE STORAGE BASIN NO.2
TREATED WATER MAIN
VFD
WELL NO. 2
12" PLUG
(N.O.)
(N.C.)
16" DI
16" DI
(N.O.)
(N.O.)
16" DI
(N.O.)
16" DI
BLENDED PHOSPHATES INJECTION
CARBON DIOXIDE INJECTION
VFD
WELL NO. 3 (FUTURE)
12" PVC
VFD
WELL NO. 1
TO ATMOSPHERE
pH SAMPLE (CONTINUOUS)
30" FRP DUCT
FAN NO. 4
30" FRP DUCT
FAN NO. 3
BIOTRICKLING FILTER
SODIUM HYDROXIDE INJECTION POINT
TO DRAIN
16" DI
(N.O.)
(N.C.)
(N.C.)
(N.O.)
SODIUM HYPOCHLORITE INJECTION POINT
DEGASIFIER
TRANSFER PUMP NO. 3 (FUTURE)
pH SAMPLE (CONTINUOUS)
VFD
STORAGE BASIN NO. 2 (FUTURE)
VFD
SODIUM HYDROXIDE INJECTION POINT
STORAGE BASIN INTERCONNECTION TO STORAGE BASIN NO. 1
TRANSFER PUMP NO. 4 (FUTURE)
16" DI RAW WATER BYPASS
FUTURE SUPPLEMENTAL TREATMENT
(N.C.)
(N.C.)
(N.O.)
(N.C.)

NOTES:

1. NOT ALL VALVES ARE SHOWN ON THIS PROCESS FLOW DIAGRAM. ONLY MAJOR VALVES HAVE BEEN SHOWN FOR CLARITY.
2. SEE DRAWINGS FOR SPECIFICS ON VALVE TYPE.
3. WATER FROM THE WELLS TO THE DEGASIFICATION COMPLEXES IS "RAW WATER." WATER FROM THE DEGASIFICATION COMPLEXES TO THE CHEMICAL INJECTION VAULT IS "TREATED WATER." WATER DOWNSTREAM OF THE CHEMICAL INJECTION VAULT IS "FINISHED WATER."
4. SPACE ALLOCATED ON SITE PLAN FOR FUTURE TREATMENT EQUIPMENT.

1.0 MG GST NO. 1
OVERFLOW
16" DI
(N.O.)
(N.C.)
8" DI DRAIN/CONNECTION BTW GSTs
(N.C.)
(N.C.)
1.0 MG GST NO. 2 (FUTURE)
OVERFLOW
16" DI
(N.C.)
(N.O.)
(N.C.)
INJECTION VAULT
(N.C.)
16" DI
(N.C.)
(N.O.)
(N.O.)
BLENDED PHOSPHATES INJECTION POINT
HYDROFLUOSILICIC ACID INJECTION POINT
SODIUM HYDROXIDE INJECTION POINT
SODIUM HYPOCHLORITE INJECTION POINT
VFD
HIGH SERVICE PUMP NO. 6 (FUTURE)
VFD
HIGH SERVICE PUMP NO. 5 (FUTURE)
VFD
HIGH SERVICE PUMP NO. 4 (FUTURE)
16" PVC
TO CITY DISTRIBUTION SYSTEM
6" DI
TO WATER TREATMENT PLANT NO. 2
FE
FE
3"PVC
(N.O.)
12" DI
16" DI
FE
(N.C.)
(N.C.)
(N.O.)
TO WATER TREATMENT PLANT NO. 2 OPERATIONS BUILDING AND CHEMICAL STORAGE EYEWASHES
(N.C.)
FINISHED WATER MAIN
VFD
6" DI
12" DI
HIGH SERVICE PUMP NO. 3
16" DI
16" DI
VFD
6" DI
12" DI
HIGH SERVICE PUMP NO. 2
SAMPLE ANALYZERS (pH, CONDUCTIVITY, CHLORINE, FLUORIDE) AT OPERATIONS BUILDING
TO DRAIN
OPERATION BULIDING
VFD
6" DI
12" DI
HIGH SERVICE PUMP NO. 1

LEGEND

- PROPOSED PIPING (BY PASS)
- PROPOSED PIPING (PRIMARY FLOW PATH)
- CHEMICAL INJECTION
- *FUTURE EQUIPMENT AND PIPING*
- N.C. NORMALLY CLOSED VALVE
- N.O. NORMALLY OPEN VALVE
- REDUCER
- AIR INLET FILTER
- STATIC MIXER
- FE MAGNETIC FLOW METER

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER OMANIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: D. AUST
SHEET CHK'D BY: A. MASSAIS
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS FLOW DIAGRAM

PROJECT NO. 20790-289282
FILE NAME: G004NFPF.DWG

SHEET NO.
G-4

ISSUED FOR BID

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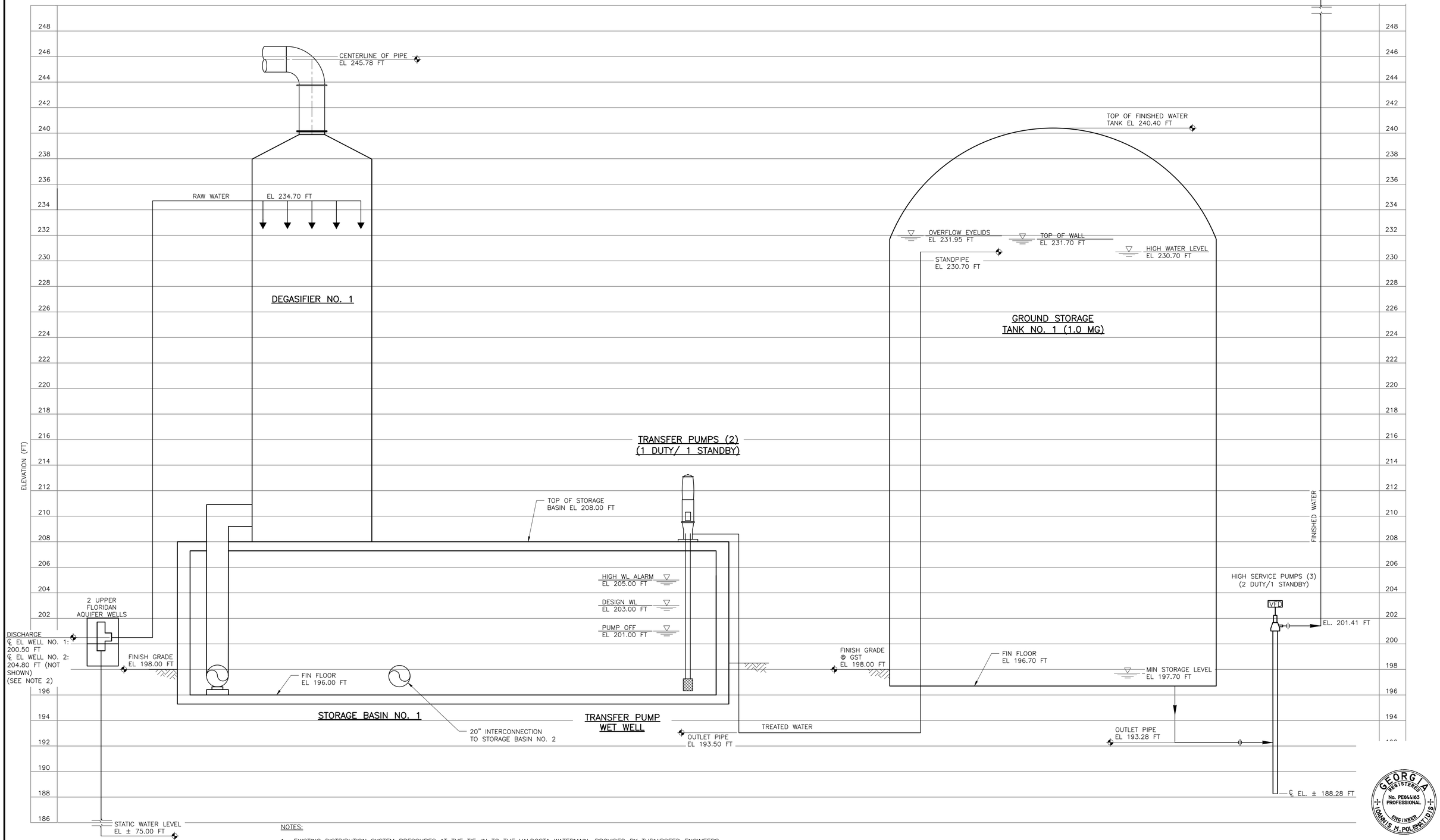

NOTES:

1. EXISTING DISTRIBUTION SYSTEM PRESSURES AT THE TIE–IN TO THE VALDOSTA WATERMAIN, PROVIDED BY TURNIPSEED ENGINEERS.
2. EXPECTED DRAWDOWN OF 3.5 FT AT A FLOW RATE OF 1,750 GPM BASED ON HIGH HEAD SCENARIO.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: D. ISLAS
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
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VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

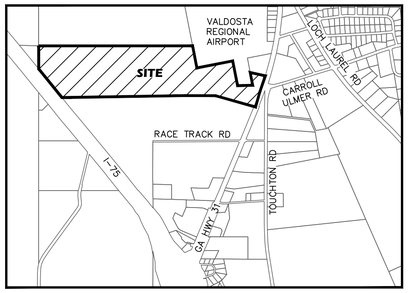
HYDRAULIC PROFILE

PROJECT NO. 20790–289282
FILE NAME: G005NFHP.DWG

SHEET NO.
G-5

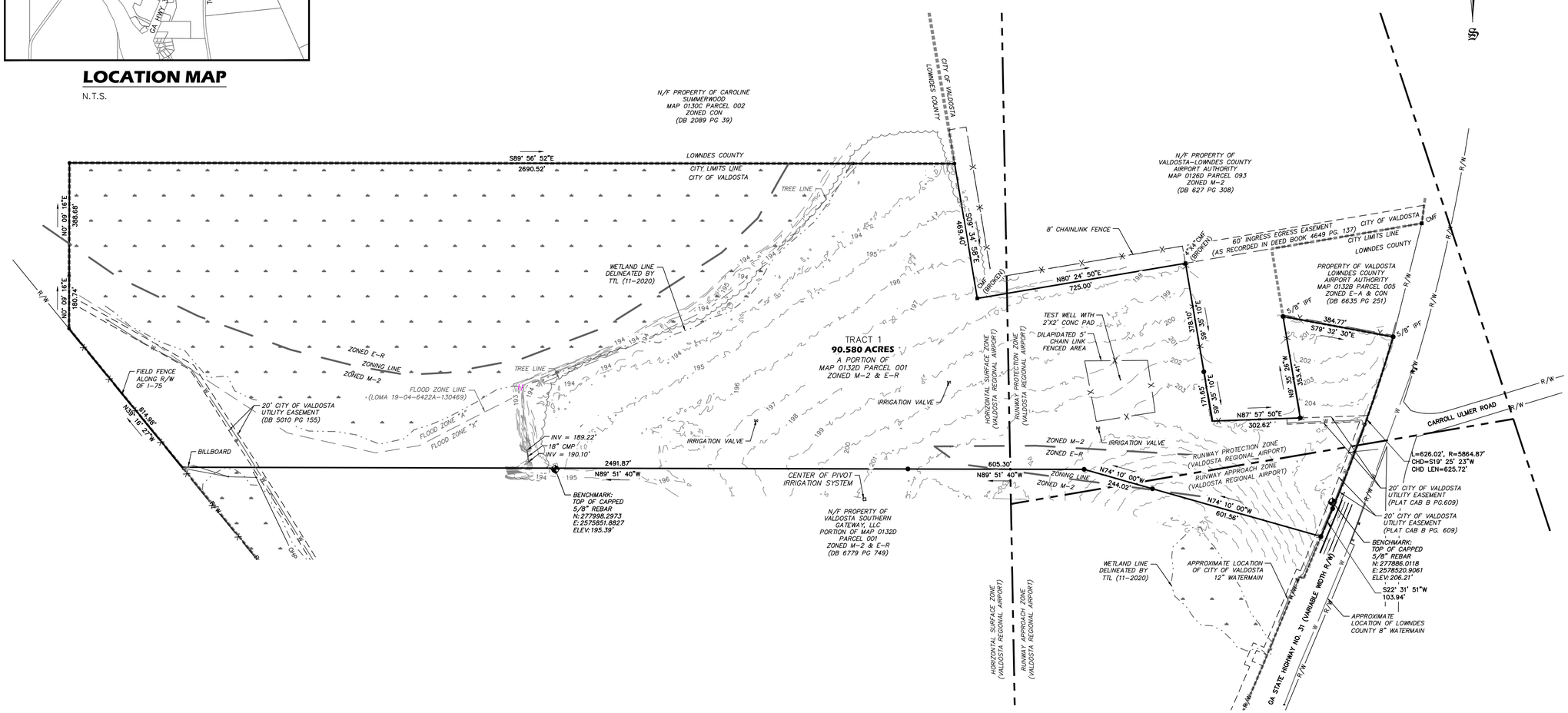
GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

ISSUED FOR BID



LOCATION MAP

N.T.S.



LEGEND

IPS ◑ – IRON PIN SET – 5/8" REBAR WITH CAP #2940
IPF ● – IRON PIN FOUND – 5/8" REBAR
GPF ● – GALVANIZED PIPE FOUND
○ – NOT MONUMENTED
—R/W— – RIGHT OF WAY
– – – –

GENERAL CIVIL NOTES

1. CONTROL ACCESS INTO THE SITE AND WORK AREAS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND SAFETY OF ALL PERSONS WHO ENTER THE AREA.
2. NOTIFY THE PROPERTY OWNERS AFFECTED BY DRILLING AND INJECTION OPERATIONS AND ALL OTHER FIELD WORK AT LEAST SEVEN DAYS IN ADVANCE OF THE WORK AND PER DIRECTION FROM THE CONTRACTING OFFICER.
3. OBTAIN ALL REQUIRED PERMIT EQUIVALENCIES FROM THE CITY OF VALDOSTA FOR THE INSTALLATION OF TEMPORARY FACILITIES.
4. OBTAIN ALL REQUIRED PERMIT EQUIVALENCIES FROM THE GEORGIA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE WELL ACTIVITIES AND AMENDMENT INJECTION ACTIVITIES.
5. NO WORK SHALL OCCUR OUTSIDE THE LIMIT OF WORK WITHOUT PRIOR APPROVAL BY THE ENGINEER OR OWNER. DAMAGE TO ANY SITE FEATURES TO BE RETAINED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER IN A MANNER APPROVED BY THE ENGINEER AND OWNER.
6. ALL AREAS WITHIN LIMIT OF WORK BUT OUTSIDE OF AREAS SPECIFICALLY CALLED OUT FOR REMOVAL AND DISPOSAL, SHALL BE COORDINATED WITH OTHER SHEETS FOR LIMITS OF DISTURBANCE REMOVE AND DISPOSE OF SOIL AND OTHER EXISTING FEATURES TO DEPTHS AS REQUIRED FOR CONSTRUCTION. REMOVE AND DISPOSE OF SOIL AND OTHER EXISTING FEATURES TO DEPTHS AS REQUIRED FOR CONSTRUCTION.
7. THE CONTRACTOR SHALL PREPARE AN EROSION AND SEDIMENT CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS SPECIFIED TO PROTECT THE SITES FROM EROSION AND PREVENT THE MOVEMENT OF SEDIMENT AND DEBRIS.
8. STRIP EXISTING VEGETATION AND 6" LAYER TOPSOIL UNLESS OTHERWISE SHOWN TO BE PROTECTED WITHIN LIMIT OF DISTURBANCE. GRIND ANY STUMPS TO A MINIMUM OF ONE FOOT BELOW FINISH GRADE AND BACKFILL IN COMPACTED LAYERS AS SPECIFIED.
9. FOR LAYOUT PURPOSES AND TO ESTABLISH THE COORDINATE SYSTEM SEE SURVEY NOTES.
10. CONTRACTOR SHALL VERIFY ALL SURVEY INFORMATION.
11. CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY AND PROTECT ALL ON-SITE STRUCTURES AND VEGETATION TO BE RETAINED ON THE SITE THROUGHOUT THE CONSTRUCTION PROJECT.
12. LOCATIONS OF BURIED UTILITIES, VAULTS AND CONCRETE PADS ARE APPROXIMATE ONLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AFTER STAKING BY THE CONTRACTOR BASED ON ACTUAL SITE CONDITIONS AS APPROVED BY THE ENGINEER.
13. ALL DISTURBED AREAS NOT COVERED WITH PAVEMENT, PADS, CURB, MULCH, RIPRAP, PLANTINGS, CRUSHED STONE OR STRUCTURES SHALL RECEIVE 6" LAYER OF LOAM AND SEED AS SPECIFIED, UNLESS NOTED OTHERWISE.
14. BUILDING DIMENSIONS ARE TO COLUMN LINE INTERSECTION OR OUTSIDE FACE OF WALL AS SHOWN ON THE DRAWINGS. DIMENSIONS TO CONCRETE PADS ARE TO EDGE OF PAD.
15. ALL ITEMS TO BE REMOVED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SHALL BE DISPOSED OFF SITE IN A LEGAL MANNER.
16. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING GRADES AND LOCATION OF UTILITIES. MAJOR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
17. TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.
18. ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED BY THE ENGINEER.
19. PATHWAY'S MAXIMUM LONGITUDINAL SLOPE SHALL BE 5% AND MAXIMUM CROSS SLOPE SHALL BE 2%.

GENERAL SITE AND OVERBURDEN

- MOBILIZE TEMPORARY CONSTRUCTION FACILITIES.
- PLACE DENSE GRADED AGGREGATE ON THE DRIVEWAY ENTERING THE WTP PROPERTY.
- PERFORM CLEARING AND REMOVAL OF CONSTRUCTION DEBRIS.
- PERFORM TOPOGRAPHIC AND UTILITY SURVEY ACTIVITIES.
- PERFORM A WELL CONDITION ASSESSMENT. PERFORM MONITORING WELL REPAIR, MAINTENANCE, OR ABANDONMENT IN ACCORDANCE WITH THE WELL CONDITION ASSESSMENT RECOMMENDATIONS, AS APPROVED BY THE CONTRACTING OFFICER.
- PERFORM DIRECT-PUSH TECHNOLOGY (DPT) GROUNDWATER SCREENING.
- INSTALL AND DEVELOP OVERBURDEN MONITORING WELLS.
- SURVEY ALL EXISTING AND NEW MONITORING WELLS.
- CONDUCT BASELINE GROUNDWATER SAMPLING.
- PREPARE OR UPDATE THE AMENDMENT INJECTION WORK PLAN BASED ON THE GROUNDWATER SAMPLING RESULTS.
- PERFORM AMENDMENT INJECTIONS IN THE OVERBURDEN TO ENHANCE ANAEROBIC BIOREMEDIATION.
- PERFORM ROUNDS 1, 2, AND 3 PERFORMANCE MONITORING EVENTS.
- PERFORM A SECOND ROUND OF AMENDMENT INJECTIONS IN THE OVERBURDEN, AS DIRECTED BY THE CONTRACTING OFFICER, BASED ON THE PERFORMANCE MONITORING GROUNDWATER RESULTS.
- PERFORM ANY SUBSEQUENT PERFORMANCE MONITORING EVENTS INCLUDING ONE ROUND IF A SECOND ROUND OF INJECTIONS IS NOT PERFORMED OR TWO ROUNDS IF A SECOND ROUND OF INJECTIONS IS PERFORMED.
- PERFORM SITE RESTORATION.

EXISTING IRRIGATION NOTES

1. LOCATE EXISTING IRRIGATION SERVICE LINE:
   - LOCATE THE EXISTING IRRIGATION LINE IN THE FIELD. REFERENCE THE TOPOGRAPHIC SURVEY FOR APPROXIMATE LOCATIONS OF IRRIGATION VALVES AND THE "CENTER OF PIVOT IRRIGATION SYSTEM" IDENTIFIED DURING THE TOPOGRAPHIC SURVEY FIELD INVESTIGATION.
2. CONFIRM INACTIVE WATER SERVICE:
   - VERIFY WITH THE OWNER AND/OR LOCAL UTILITY PROVIDED THAT THE IRRIGATION WATER SERVICE IS NO LONGER ACTIVE PRIOR TO ANY CUTTING OR CAPPING OPERATIONS.
   - PROVIDE DOCUMENTATION OR WRITTEN CONFIRMATION TO THE ENGINEER PRIOR TO PROCEEDING.
3. CUT AND CAP IRRIGATION SERVICE:
   - ONCE SERVICE INACTIVITY IS CONFIRMED, CUT AND CAP THE IRRIGATION SERVICE LINE AS CLOSE TO THE PROPERTY LINE AS FEASIBLE.
   - THE CAP SHOULD BE WATERTIGHT AND PERMANENT, USING APPROVED MATERIALS SUITABLE FOR THE PIPE TYPE AND SIZE ENCOUNTERED.
4. REMOVAL OF IRRIGATION INFRASTRUCTURE:
   - REMOVE AND DISPOSE OF ALL IRRIGATION COMPONENTS (PIPING, VALVES, HEADS, RISERS, ETC.) THAT CONFLICT WITH NEW WORK, INCLUDING GRADING, FOUNDATIONS, UTILITIES, OR LANDSCAPING.
   - DISPOSAL SHOULD BE OFF-SITE AND IN ACCORDANCE WITH LOCAL REGULATIONS.
5. ABANDONMENT OF REMAINING IRRIGATION INFRASTRUCTURE:
   - EXISTING IRRIGATION COMPONENTS THAT DO NOT CONFLICT WITH PROPOSED WORK MAY BE ABANDONED IN-PLACE UPON ENGINEER'S APPROVAL.
   - ABANDONED COMPONENTS MUST BE FLUSHED OR DRAINED AND CAPPED OR SEALED TO PREVENT FUTURE COLLAPSE.
6. DOCUMENTATION AND COORDINATION:
   - NOTIFY ENGINEER 48 HOURS PRIOR TO IRRIGATION DECOMMISSIONING ACTIVITIES.
   - COORDINATE WITH OTHER TRADES AS NECESSARY TO AVOID INTERFERENCE WITH SITE UTILITIES OR STRUCTURES.
   - MAINTAIN FIELD RECORDS OF IRRIGATION LINES ENCOUNTERED AND ACTIONS TAKEN FOR INCLUSION IN THE PROJECT CLOSEOUT DOCUMENTATION.

ABBREVIATIONS

L	ANGLE
AB	ANCHOR BOLT
ACB	ARTICULATING CONCRETE BLOCK
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJACENT, ADJOINING, ADJUSTABLE
AGGR	AGGREGATE
AGL	ATLANTA GAS LIGHT
AHR	ANCHOR
AI	AREA INLET
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHORED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATE
ASPH	ASPHALT
AVE	AVENUE
AVG	AVERAGE
B	BORING
BC	BOTTOM OF CURB
BDRY	BOUNDARY
BITUM	BITUMINOUS
BLW	BELOW
BM	BENCHMARK
BO	BOTTOM OF
BOT	BOTTOM
BS	BOTH SIDES
BTWN	BETWEEN
BW	BOTH WAYS
CAP	CAPACITY
CATV	CABLE TV LINE
CB	CATCH BASIN
CC	CENTER OF CURVE
CBR	CONCRETE BEARING RATIO
CE	COVER ELEVATION
CEM	CEMENT
CFS	CUBIC FEET PER SECOND
CHK	CHECK
CI	CAST IRON
CIP	CAST-IN-PLACE
CIRC	CIRCULAR
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CL	CENTER LINE
C/L	CENTER LINE
CLR	CLEAR(ANCE)
CMP	CORRUGATED METAL PIPE
CNA	CANNOT ACCESS (CONCRETE TOP)
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
COV	COVER
CPP	CORRUGATED PLASTIC PIPE
CRCMF	CIRCUMFERENCE
C TO C, C/C	CENTER TO CENTER
CTR	CENTER
CU FT	CUBIC FEET
CU YD	CUBIC YARDS
DAT	DATUM
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPR	DEPRESSION
DEPT	DEPARTMENT
DES	DIRECTORATE OF EMERGENCY SERVICES
DET	DETAIL
DRI	DRAINAGE INLET
DIA	DIAMETER
DI	DUCTILE IRON
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DN	DOWN
DPW	DIRECTORATE OF PUBLIC WORKS
DR	DRAIN
DWG	DRAWING
E	EAST
EA	EACH
ECB	EROSION CONTROL BLANKET
EF	EACH FACE
EXP. JT.	EXPANSION JOINT
EG	EXISTING GRADE
EL	ELEVATION - GRADE
ELEV.	ELEVATION
ELEC	ELECTRIC
EMER	EMERGENCY
EMH	ELECTRICAL MANHOLE
EP	ELECTRICAL POWER
EQ	EQUAL
ES&PCP	EROSION SEDIMENTATION & POLLUTION CONTROL PLAN
EXST	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EXP BT	EXPANSION BOLT
FDTN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH
FN	FENCE
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FT	FEET
FTG	FOOTING
FT/S	FEET PER SECOND
GAL	GALLON(S)
GALV	GALVANIZED
GALV STL	GALVANIZED STEEL
GC	GENERAL CONTRACTOR
GEN	GENERAL
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GI	GRATE INLET
GND	GROUND
GOVT	GOVERNMENT
GPS	GLOBAL POSITIONING SYSTEM
GSP	GALVANIZED STEEL PIPE
GR LN	GRADE LINE
GST	GROUND STORAGE TANK
GT	GROUT
H.	HORIZONTAL
HDPE	HIGH DENSITY POLYETHLENE
HPT	HIGH POINT
HS	HIGH STRENGTH
IE	INVERT ELEVATION
IN	INCH
INTM	INTERMEDIATE
INV	INVERT
JTS	JOINTS
LD	LOAD
LBR	LOAD BEARING RATIO
LBS	POUNDS
LIA	LOCAL ISSUING AUTHORITY
LG	LENGTH
LMST	LIMESTONE
L/P	LIGHT POLE
MFG	MANUFACTURING
MAX	MAXIMUM
MAT'L	MATERIAL
MH	MANHOLE
MG	MILLION GALLON
MIN	MINIMUM
MTL	METAL
N	NORTH
NAT	NATURAL
NEC	NETWORK ENTERPRISE CENTER
NGS	NATIONAL GEODETIC SURVEY
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
N"REQD	NOT REQUIRED
NTS	NOT TO SCALE
OBSC	OBSCURE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
O/S	O/S?
PAR	PARALLEL
PAV'T	PAVEMENT
PC	POINT OF CURVATURE
PCC	PRECAST CONCRETE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PCF	POUNDS PER CUBIC FOOT
PD	PAVEMENT DRAIN
PERIM	PERIMETER
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
PROJ	PROJECT
PS	PIPE SPACE
PSF	POUNDS PER SQUARE FOOT
PT	POINT, POINT OF TANGENT
PV	PAVED
PVC	POLYVINYL CHLORIDE
PVG	PAVING
QTY	QUANTITY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCE
REM	REMOVE(ABLE)
REQD	REQUIRED
REV	REVISION
RIM	RIM ELEVATION
RND	ROUND
ROW	RIGHT OF WAY
RVS	REVERSE
S	SOUTH
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SEQ	SEQUENCE
SHLDR	SHOULDER
SHT	SHEET
SIM	SIMILAR
SPCL	SPECIAL
SQ	SQUARE
SS	SANITARY SEWER?
SST	STAINLESS STEEL
SSWR	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
TAN	TANGENT
TBD	TO BE DETERMINED
TEMP	TEMPORARY
THK	THICK(NESS)
TMP	TRAFFIC MANAGEMENT PLAN
TO	TOP OF
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
UNK	UNKOWN
USBR	US BUREAU OF RECLAMATION
UTIL	UTILITY
VC	VITRIFIED CLAY
VCP	VITRIFIED CLAY PIPE
V., VERT	VERTICAL
VOL	VOLUME
W	WEST
W/	WITH
W/O	WITHOUT
WWF	WELDED WIRE FABRIC
WTH	WIDTH
YD	YARD

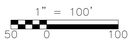
NOTES

1. THESE LEGENDS ARE COMPOSED OF STANDARD SYMBOLS AND ARE PERTINENT TO THE CONDITIONS ON THIS SET OF DRAWINGS TO THE EXTENT APPLICABLE.
2. ADDITIONAL LEGENDS AND/OR ANOTHER LEGEND SHEET MAY APPEAR IN THIS SET OF DRAWINGS TO INDICATE SPECIFIC CONDITIONS IN LIEU OF SYMBOLS SHOWN ON THIS SHEET.

GENERAL SYMBOLOGY

NORTH ARROW

SCALE



SYMBOL WHERE SECTION IS TAKEN

LEGEND

PROPOSED

REINFORCED CONCRETE SECTION

CONCRETE ROAD, DRIVEWAY OR SIDEWALK

RIPRAP

GRAVEL AGGREGATE DRIVE (LIME ROCK)

CONCRETE WALK

ASPHALT

GRASS SEED MIX (TURF OR NATIVE)

SELECT OR COMMON FILL

BORING LOCATION

100 — PROPOSED GRADELINE – MAJOR

101 — PROPOSED GRADELINE – MINOR

100 — EXISTING GRADELINE – MAJOR

101 — EXISTING GRADELINE – MINOR

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSIAS
DRAWN BY: P. POHEKAR
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL NOTES, ABBREVIATIONS AND SYMBOLS

PROJECT NO. 20790-289282
FILE NAME: C001NFLG.DWG

SHEET NO.
C-1

ISSUED FOR BID

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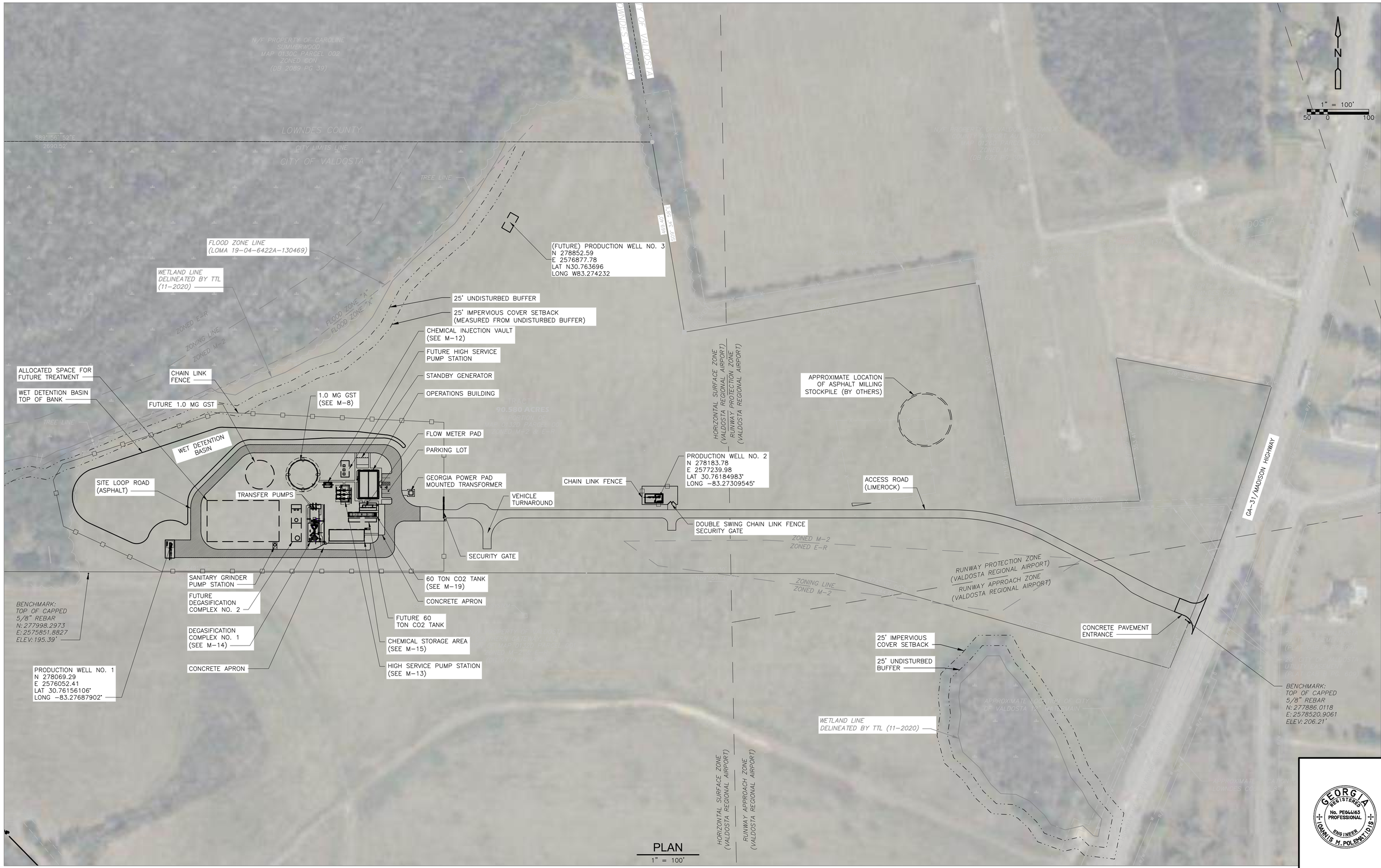

PLAN
1" = 100'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: S. ZEILER
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROPOSED SITE PLAN

PROJECT NO. 20790-289282
FILE NAME: C002STPL.DWG

SHEET NO.
C-2

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

ISSUED FOR BID

XREFs: [CDMS_2436, CEP001SS, CWP001GD, CWP002ST, MWP001PS, MWP002PS, AWZ000DB - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, M006STPL, M011PSPL, M014PSSC, R_MWP001V] Images: []
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BORING TABLE DATA				
NAME	LATITUDE	LONGITUDE	GROUND EL	DEPTH
W-1	N30° 45' 43.94"	W83° 16' 36.63"	194	20 FT
W-2	N30° 45' 42.50"	W83° 16' 23.12"	201	20 FT
B-1	N30° 45' 43.52"	W83° 16' 30.58"	197	20 FT
B-2	N30° 45' 43.20"	W83° 16' 31.81"	197	30 FT
B-3	N30° 45' 43.00"	W83° 16' 31.30"	197	30 FT
B-4	N30° 45' 42.19"	W83° 16' 31.59"	197	30 FT
B-5	N30° 45' 42.08"	W83° 16' 33.02"	197	30 FT
B-6	N30° 45' 41.76"	W83° 16' 32.29"	197	30 FT
B-7	N30° 45' 41.76"	W83° 16' 31.43"	198	30 FT
TB-1	N30° 45' 43.27"	W83° 16' 32.83"	196	100 FT
TB-2	N30° 45' 43.62"	W83° 16' 32.83"	196	50 FT
TB-3	N30° 45' 43.27"	W83° 16' 32.43"	196	50 FT
TB-4	N30° 45' 42.93"	W83° 16' 32.83"	196	50 FT
TB-5	N30° 45' 43.27"	W83° 16' 33.23"	196	50 FT
SW-1	N30° 45' 44.45"	W83° 16' 34.07"	195	10 FT
SW-2	N30° 45' 44.75"	W83° 16' 31.75"	195	10 FT
RB-1	N30° 45' 41.14"	W83° 16' 28.87"	200	6 FT
RB-2	N30° 45' 41.04"	W83° 16' 24.94"	202	6 FT
RB-3	N30° 45' 41.01"	W83° 16' 21.38"	203	6 FT
RB-4	N30° 45' 40.29"	W83° 16' 15.39"	197	6 FT
RB-5	N30° 45' 39.44"	W83° 16' 11.94"	199	6 FT

N

1" = 100'
50 0 100

LOWNDES COUNTY
CITY LIMITS LINE
CITY OF VALDOSTA
S89° 56' 52"E
2690.52'
TREE LINE
(FUTURE) PRODUCTION WELL NO. 3
FLOOD ZONE LINE (LOMA 19-04-6422A-130469)
WETLAND LINE DELINEATED BY TTL (11-2020)
ZONED E-R
ZONING LINE
ZONED M-2
FLOOD ZONE "A"
FLOOD ZONE "X"
25' UNDISTURBED BUFFER
25' IMPERVIOUS COVER SETBACK (MEASURED FROM UNDISTURBED BUFFER)
SW-2
WET DETENTION BASIN TOP OF BANK
SW-1
TB-2
B-3
B-1
W-1
WET DETENTION BASIN
TB-1
TB-3
SITE LOOP ROAD (ASPHALT)
TB-5
B-2
SECURITY GATE
B-5
TB-4
B-4
B-6
B-7
RB-1
RB-2
PRODUCTION WELL NO. 1
TRACT 1
90.580 ACRES
HORIZONTAL SURFACE ZONE (VALDOSTA REGIONAL AIRPORT)
RUNWAY PROTECTION ZONE (VALDOSTA REGIONAL AIRPORT)
PRODUCTION WELL NO. 2
W-2
ACCESS ROAD (LIMEROCK)
RB-3
RUNWAY PROTECTION ZONE (VALDOSTA REGIONAL AIRPORT)
RUNWAY APPROACH ZONE (VALDOSTA REGIONAL AIRPORT)
RB-4
RB-5
CONCRETE PAVEMENT ENTRANCE
25' IMPERVIOUS COVER SETBACK
25' UNDISTURBED BUFFER
WETLAND LINE DELINEATED BY TTL (11-2020)
HORIZONTAL SURFACE ZONE (VALDOSTA REGIONAL AIRPORT)
RUNWAY APPROACH ZONE (VALDOSTA REGIONAL AIRPORT)

PLAN
1" = 100'

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: S. ZEILER
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

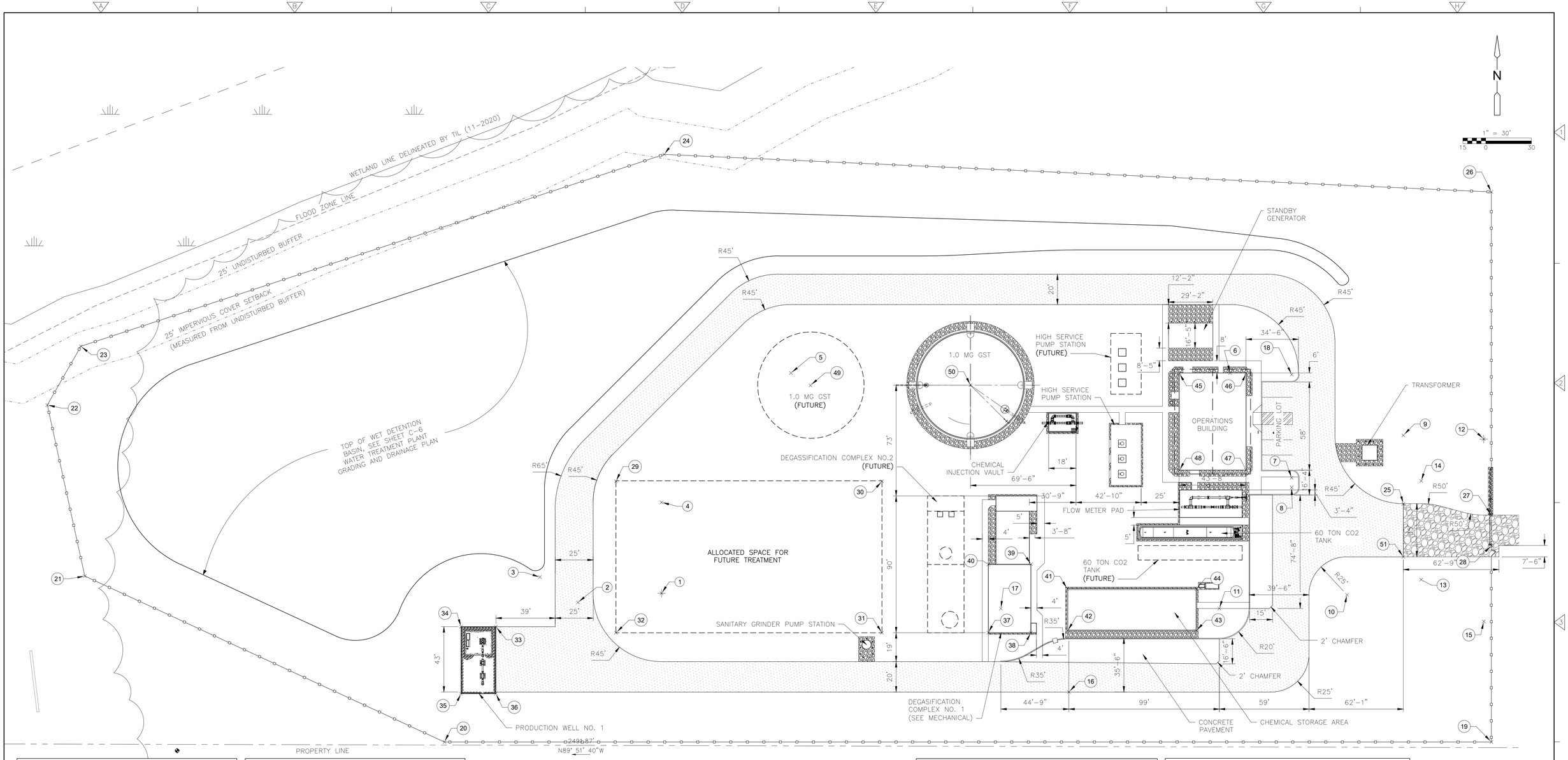
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GEOTECHNICAL BORING LOCATION PLAN

PROJECT NO. 20790-289282
FILE NAME: C003STPL.DWG

SHEET NO.
C-3

ISSUED FOR BID



PLAN
1" = 30'

POINT DATA TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
1	278101.92	2576170.55	CENTER OF CURVE
2	278095.90	2576115.55	CENTER OF CURVE
3	278112.60	2576090.55	CENTER OF CURVE
4	278161.77	2576170.55	CENTER OF CURVE
5	278246.92	2576255.71	CENTER OF CURVE
6	278246.92	2576544.64	CENTER OF CURVE
7	278177.92	2576585.14	CENTER OF CURVE
8	278171.60	2576585.14	CENTER OF CURVE
9	278205.88	2576658.64	CENTER OF CURVE
10	278100.88	2576621.55	CENTER OF CURVE
11	278091.92	2576537.55	CENTER OF CURVE
12	278203.38	2576711.55	CENTER OF CURVE
13	278110.88	2576670.40	CENTER OF CURVE
14	278175.88	2576670.40	CENTER OF CURVE

POINT DATA TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
15	278083.38	2576711.55	CENTER OF CURVE
16	278036.92	2576438.55	CENTER OF CURVE
17	278091.92	2576393.82	CENTER OF CURVE
18	278245.92	2576585.14	CENTER OF CURVE
19	278004.02	2576716.55	EDGE OF FENCE
20	278004.02	2576027.74	EDGE OF FENCE
21	278113.24	2575791.06	EDGE OF FENCE
22	278225.81	2575766.41	EDGE OF FENCE
23	278264.49	2575788.48	EDGE OF FENCE
24	278390.79	2576172.31	EDGE OF FENCE
25	278160.88	2576658.64	EDGE OF ASPHALT
26	278366.08	2576716.55	EDGE OF FENCE
27	278153.38	2576716.55	EDGE OF FENCE
28	278133.38	2576716.55	EDGE OF FENCE

POINT DATA TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
29	278175.67	2576140.55	EDGE OF FUTURE SPACE
30	278175.67	2576315.55	EDGE OF FUTURE SPACE
31	278075.92	2576315.55	EDGE OF FUTURE SPACE
32	278075.92	2576140.55	EDGE OF FUTURE SPACE
33	278079.90	2576061.55	EDGE OF BUILDING
34	278079.90	2576038.60	EDGE OF BUILDING
35	278035.83	2576038.60	EDGE OF BUILDING
36	278035.83	2576061.56	EDGE OF BUILDING
37	278075.92	2576385.55	EDGE OF BUILDING
38	278075.92	2576413.55	EDGE OF BUILDING
39	278121.10	2576413.68	EDGE OF BUILDING
40	278120.88	2576385.55	EDGE OF BUILDING
41	278104.92	2576437.39	EDGE OF BUILDING
42	278077.26	2576437.74	EDGE OF BUILDING

POINT DATA TABLE			
POINT NO.	NORTHING	EASTING	DESCRIPTION
43	278077.26	2576522.37	EDGE OF BUILDING
44	278104.92	2576522.72	EDGE OF BUILDING
45	278246.71	2576511.26	EDGE OF BUILDING
46	278246.67	2576555.14	EDGE OF BUILDING
47	278183.16	2576555.06	EDGE OF BUILDING
48	278182.92	2576511.39	EDGE OF BUILDING
49	278238.77	2576268.59	CENTER OF FUTURE TANK
50	278238.90	2576373.80	CENTER OF TANK
51	278125.88	2576658.64	EDGE OF ASPHALT

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER DIMITRIS H. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: M. CARLSON
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

WATER TREATMENT PLANT LAYOUT PLAN

PROJECT NO. 20790-289282
FILE NAME: C004STPL.DWG

SHEET NO.
C-4

ISSUED FOR BID

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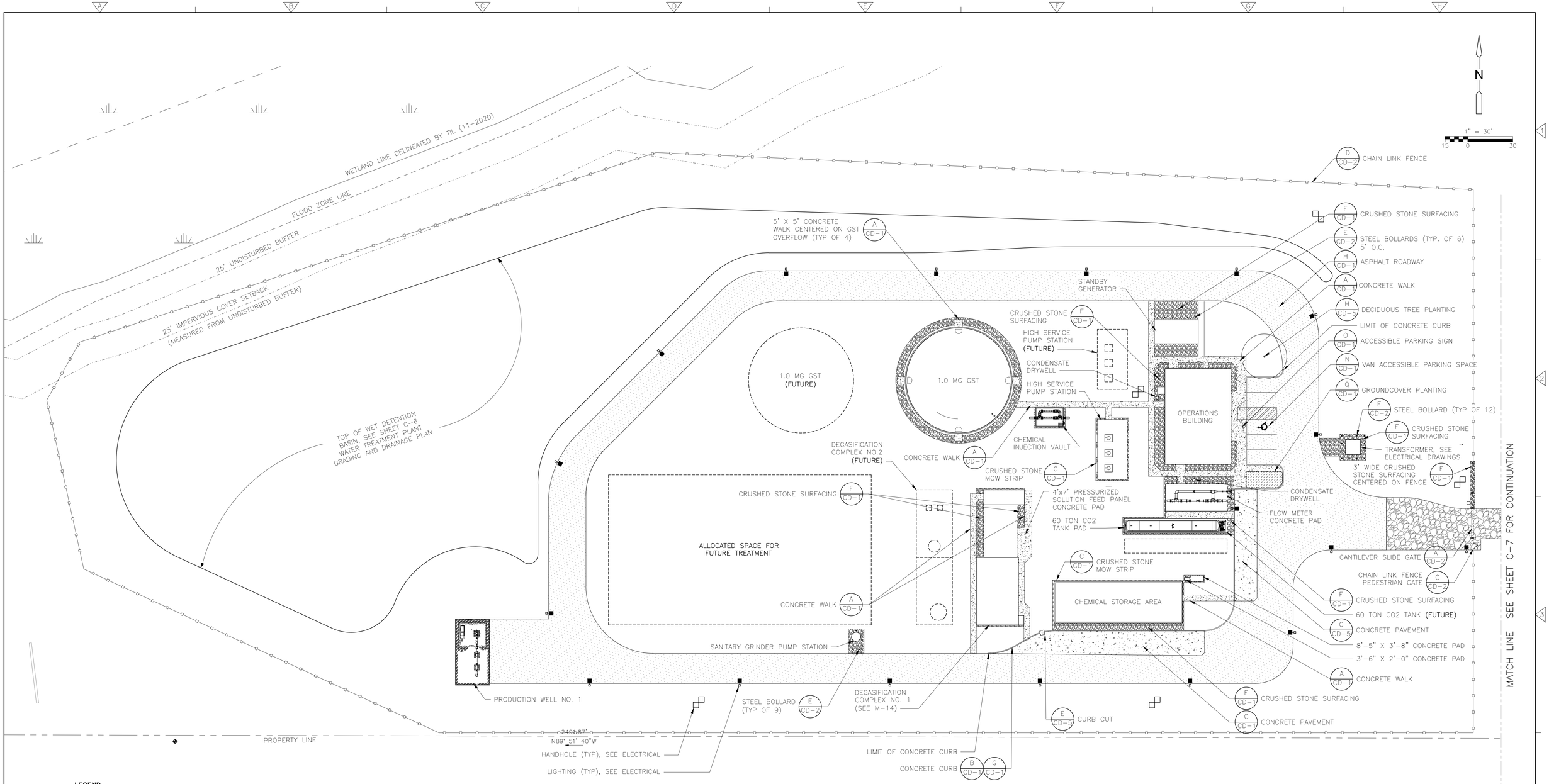

LEGEND

- ASPHALT ROADWAY
- CONCRETE PAVEMENT
- CONCRETE WALK
- MULCH
- LIMESTONE ACCESS ROAD
- CRUSHED STONE SURFACING / CRUSHED STONE MOW STRIP

PLAN
1" = 30'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: M. CARLSON
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

WATER TREATMENT PLANT
MATERIALS PLAN

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER (OMPI) S. H. POLEMATIDIS

PROJECT NO. 20790-289282
FILE NAME: C005MTPL.DWG

SHEET NO.
C-5

ISSUED FOR BID

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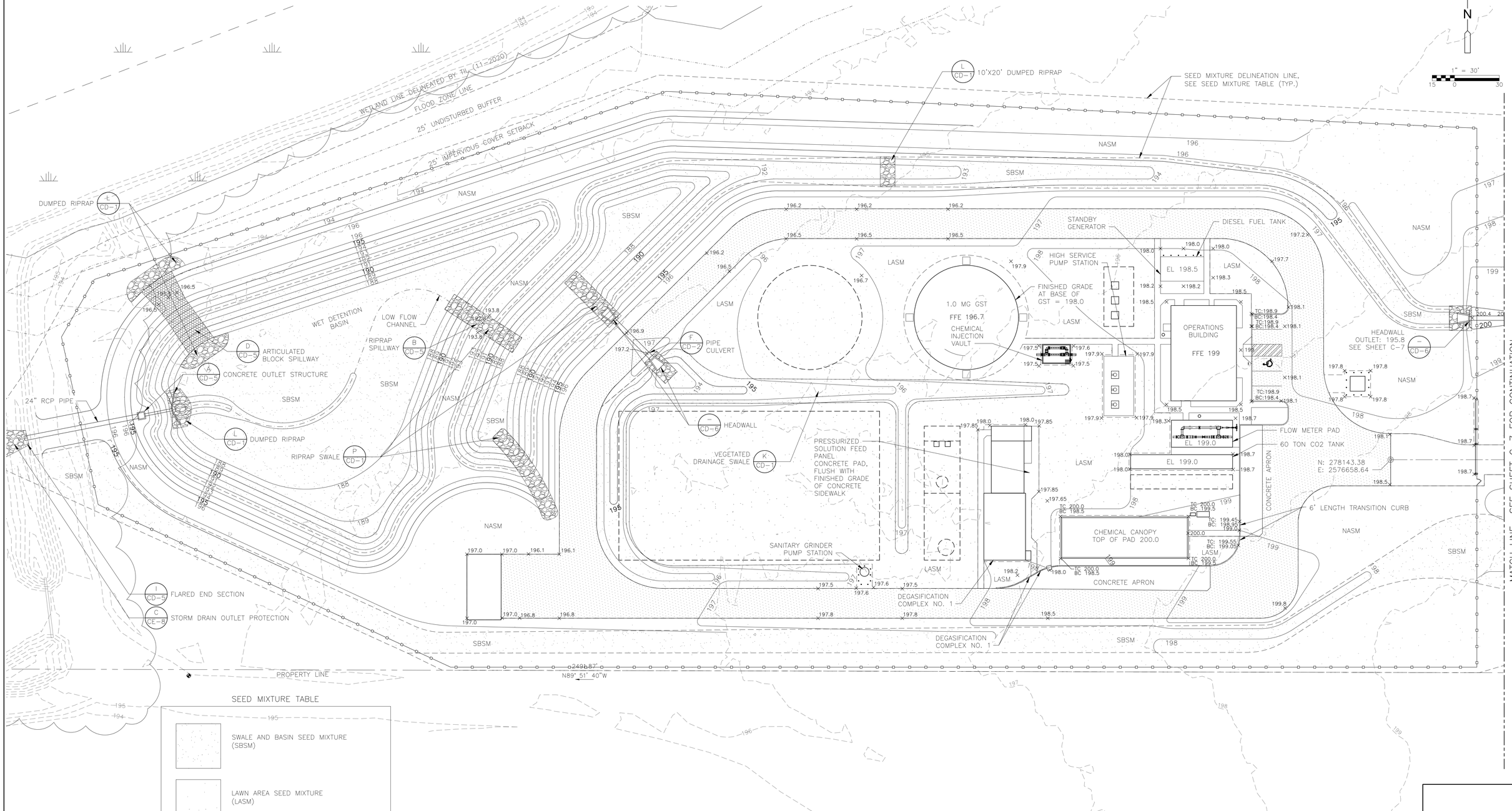


SEED MIXTURE TABLE

	SWALE AND BASIN SEED MIXTURE (SBSM)
	LAWN AREA SEED MIXTURE (LASM)
	UPLAND NATURAL AREA SEED MIXTURE (NASM)

PLAN
1" = 30'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: M. CARLSON
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

WATER TREATMENT PLANT
GRADING AND DRAINGE PLAN

GEORGIA REGISTERED No. PE011453 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

PROJECT NO. 20790-289282
FILE NAME: C006STPL.DWG

SHEET NO.
C-6

ISSUED FOR BID

LEGEND:

LIMESTONE ROADWAY

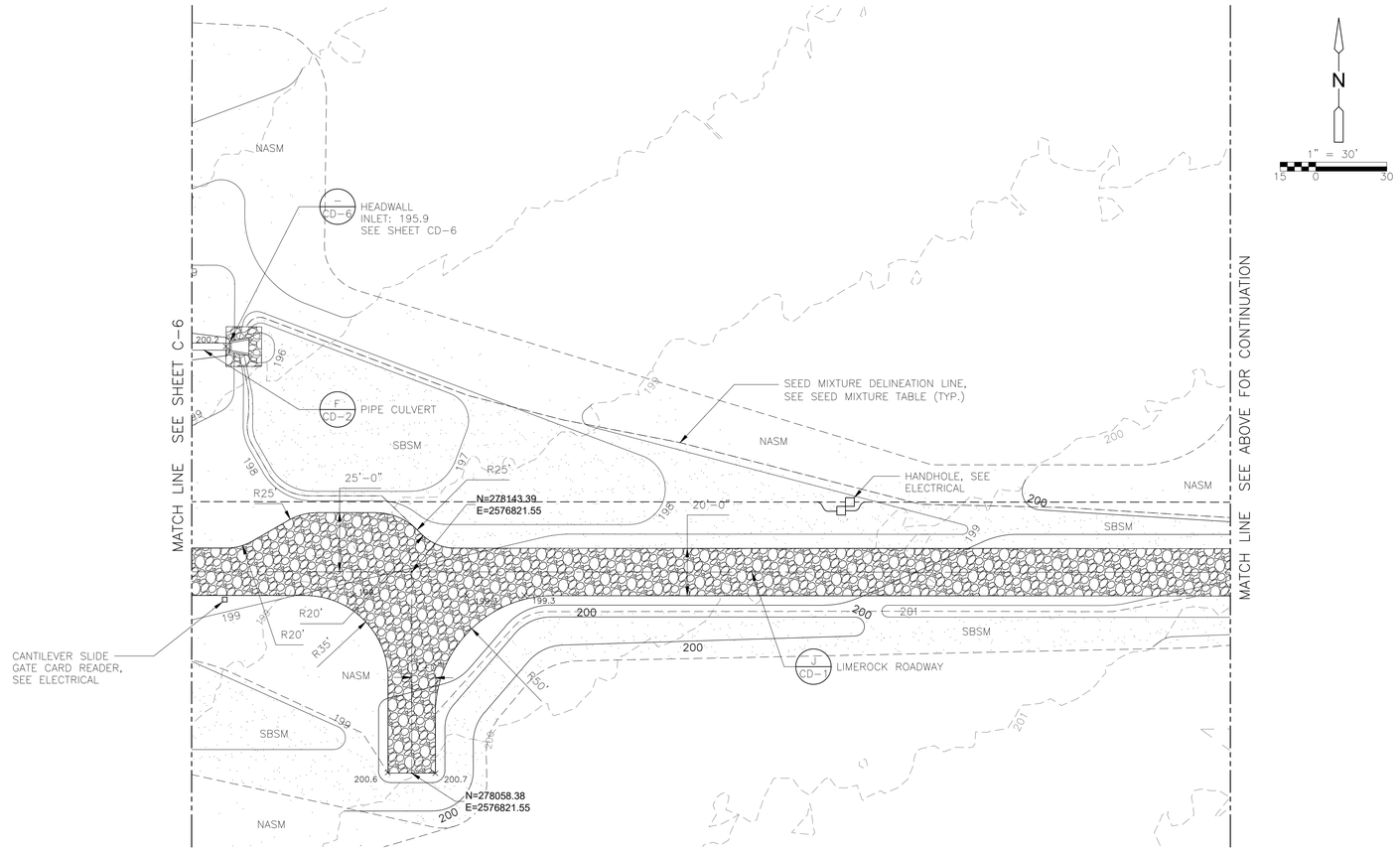
CRUSHED STONE SURFACING

SEED MIXTURE TABLE

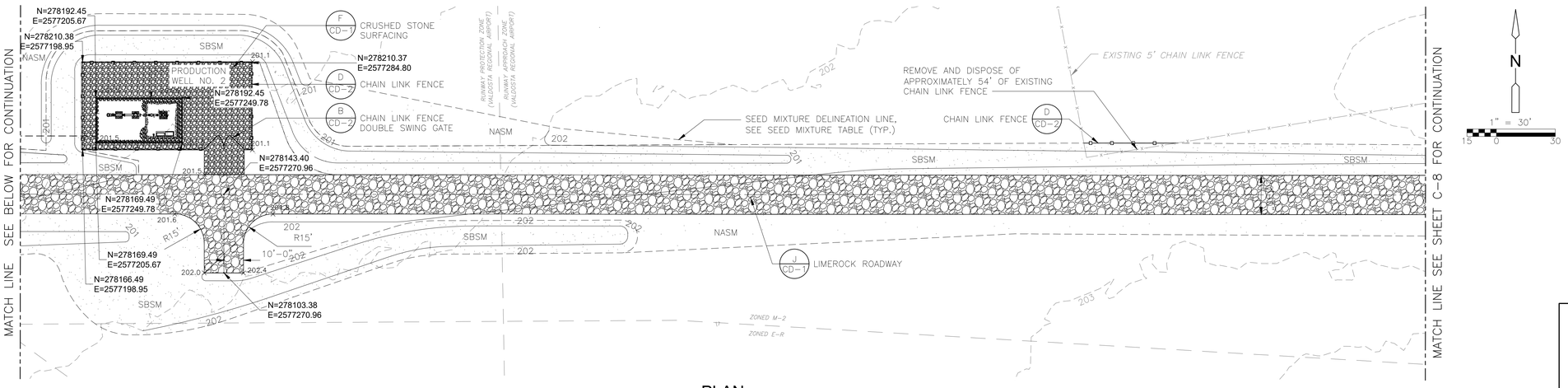
SWALE AND BASIN SEED MIXTURE (SBSM)

LAWN AREA SEED MIXTURE (LASM)

UPLAND NATURAL AREA SEED MIXTURE (NASM)



PLAN
1" = 30'



PLAN
1" = 30'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: M. CARLSON
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SITE ACCESS ROAD LAYOUT, MATERIALS AND GRADING PLAN I

PROJECT NO. 20790-289282
FILE NAME: C007STPL.DWG

SHEET NO.
C-7

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS N. POLEMATIDIS

ISSUED FOR BID

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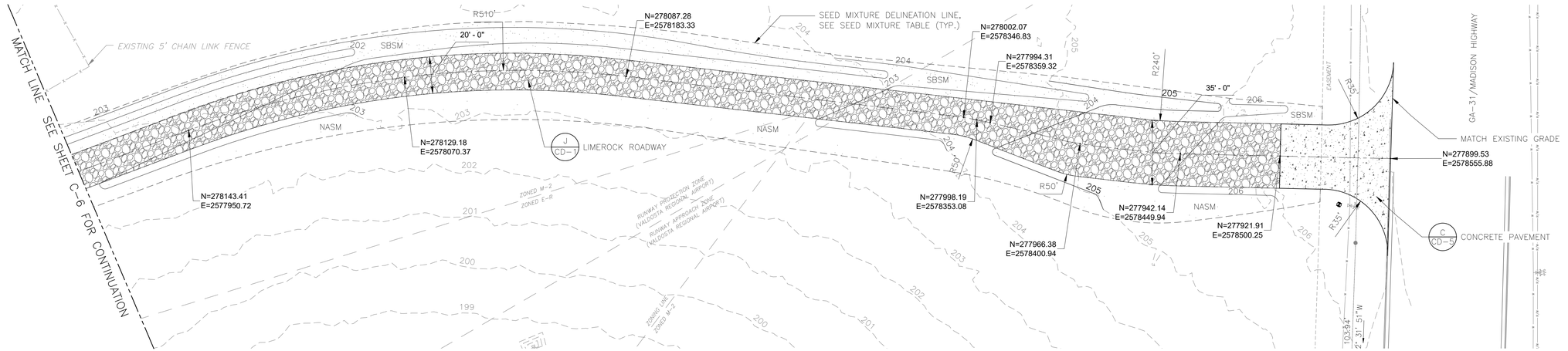

PLAN
1" = 30'

LEGEND

LIMESTONE ROADWAY

CONCRETE PAVEMENT

SEED MIXTURE TABLE

	SWALE AND BASIN SEED MIXTURE (SBSM)
	LAWN AREA SEED MIXTURE (LASM)
	UPLAND NATURAL AREA SEED MIXTURE (NASM)

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSIAS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SITE ACCESS ROAD LAYOUT, MATERIALS AND GRADING PLAN II

PROJECT NO. 20790-289282
FILE NAME: C008STPL.DWG
SHEET NO.
C-8

GEORGIA REGISTERED No. PE014163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

ISSUED FOR BID

XREFs: [CDMS_2436, CEP001SS, CWP001GD, CWP002ST, MWP001PS, MWP002PS, AW20000B - 3D View - 3D Process Export, MWP001CH, CWP003ST, R_MWP001CW, SWZ000HS - HSPS Plan, M006STPL, M011PSPL, M014PSSC, R_MWP001IV, EMP000ST] Images: []
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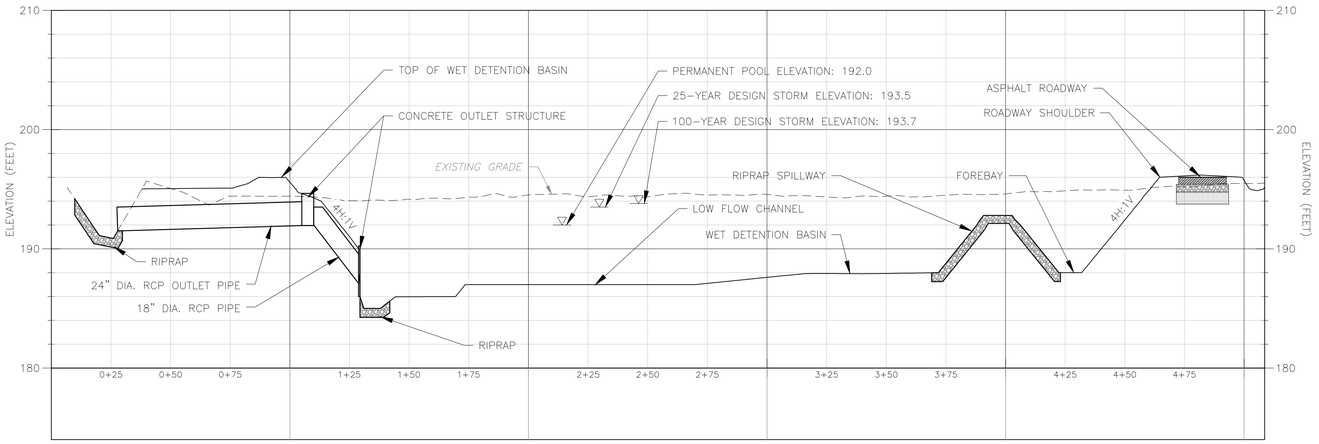
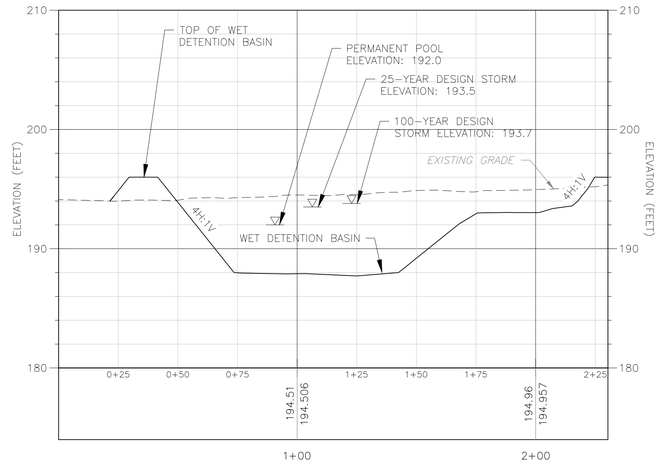


WET DETENTION BASIN

SECTION AA'

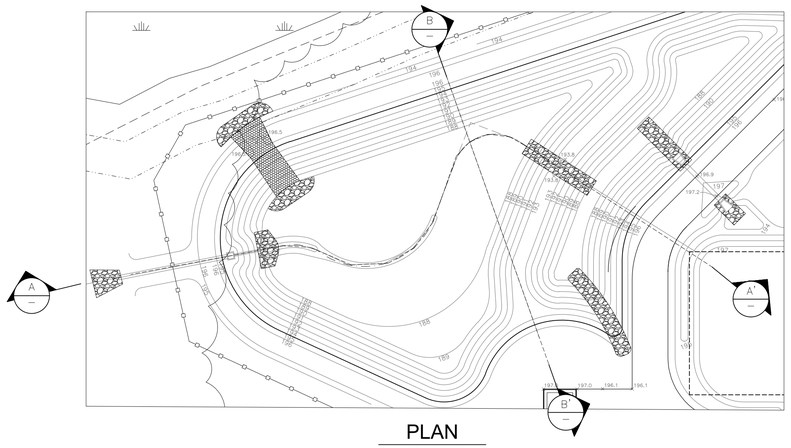
H: 1"=30' V: 1"=6'



WET DETENTION BASIN

SECTION BB'

H: 1"=30' V: 1"=6'



PLAN

1" = 50'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: J. HEIL
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SITE SECTIONS I

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

PROJECT NO. 20790-289282
FILE NAME: C009STPL.DWG

SHEET NO.
C-9

ISSUED FOR BID

XREFs: [CDMS_2436, CEP001SS, CWP002ST, MWP001PS, MWP002PS, MWPGPSPL, AWZ000B - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, R_MWP002CH, M006STPL, M011PSPL, CWP001GD, M014PSSC] [Images: []
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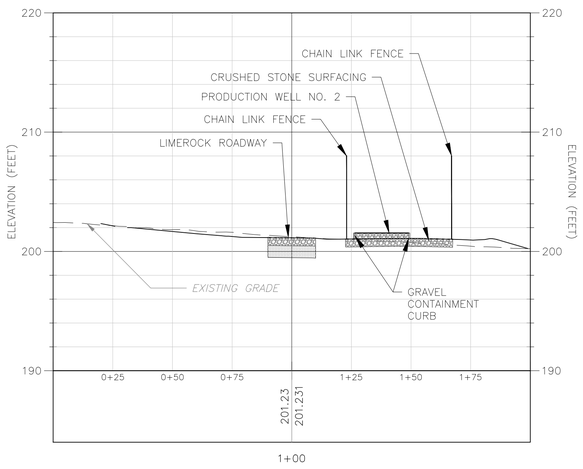
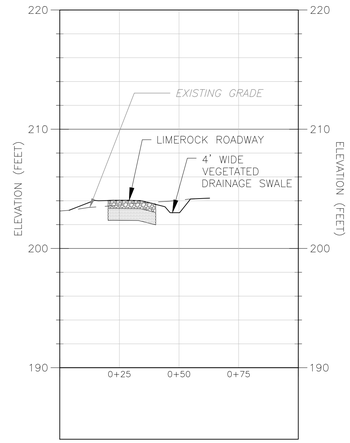


PRODUCTION WELL NO. 2

SECTION CC'

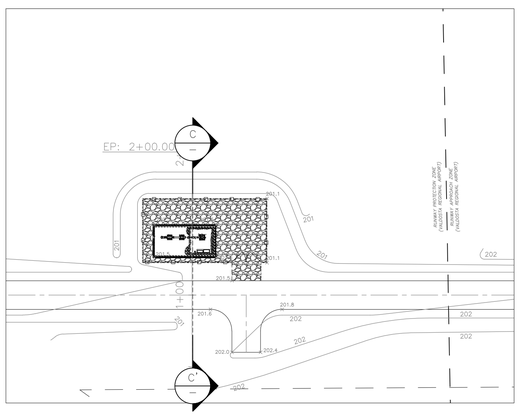
H: 1"=30' V: 1"=6'



TYPICAL LIMEROCK ROADWAY

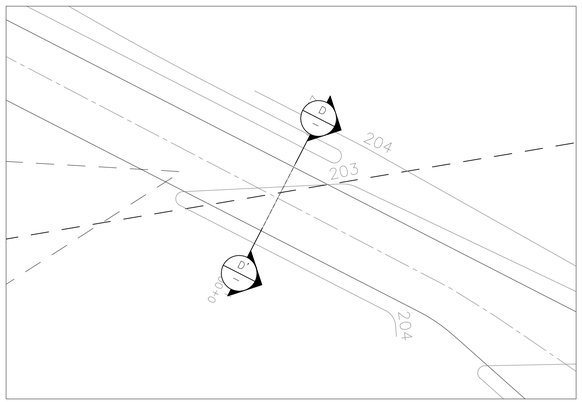
SECTION DD'

H: 1"=30' V: 1"=6'



PLAN

1" = 50'



PLAN

1" = 20'

XREFs: [CDMS_2436_CEP001SS_CWP002ST_MWP001PS_MWP002PS_MWPGPSPL_AWZ0000B - 3D View - 3D Process Export_MWP001CH_R_MWP001CW_SWZ000HS - HSPS Plan_R_MWP002CH_M006STPL_M011PSPL_CWP001GD_M014PSSC] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: J. HEIL
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SITE SECTIONS II

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

PROJECT NO. 20790-289282
FILE NAME: C010STPL.DWG

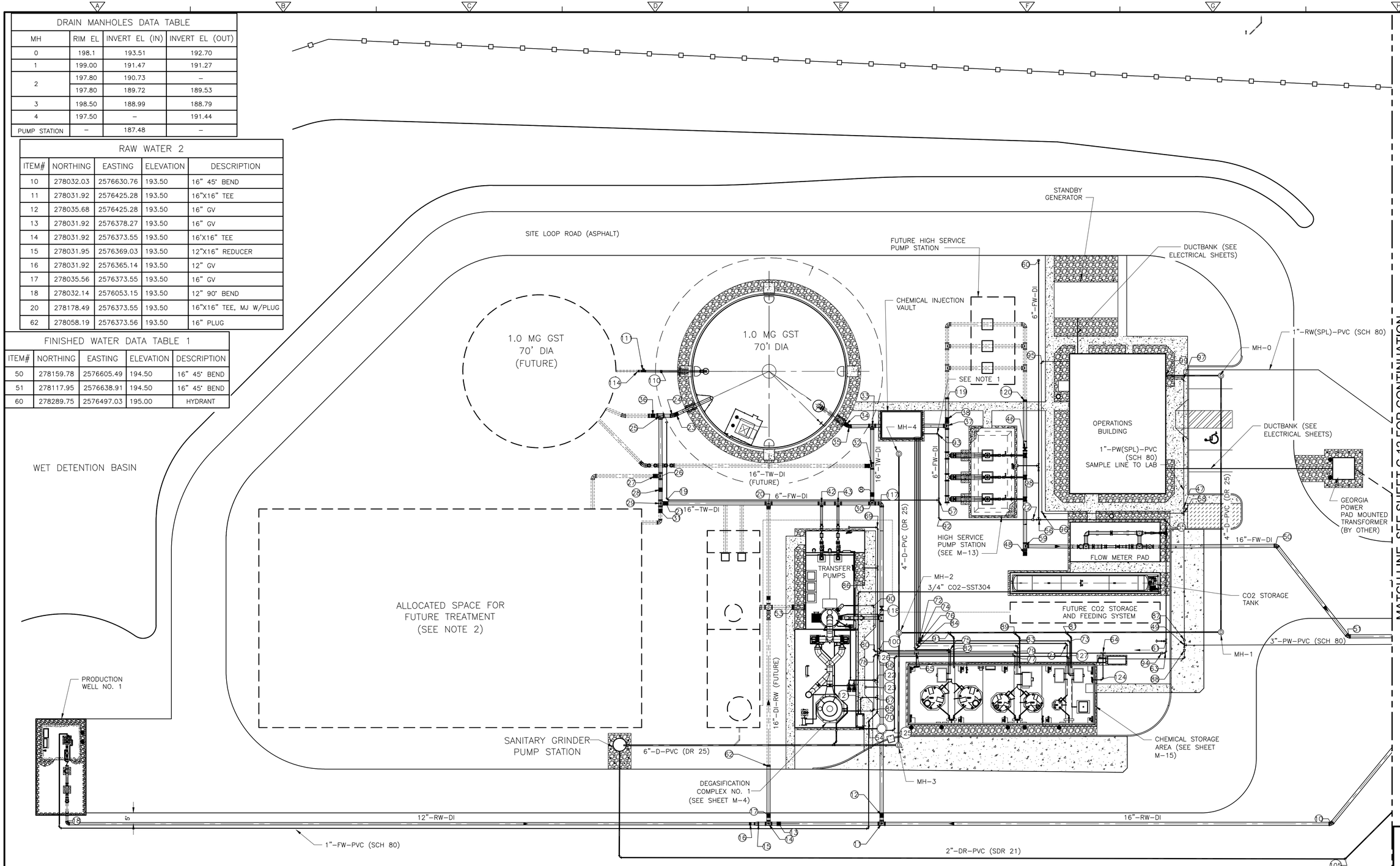
SHEET NO.
C-10

ISSUED FOR BID

DRAIN MANHOLES DATA TABLE			
MH	RIM EL	INVERT EL (IN)	INVERT EL (OUT)
0	198.1	193.51	192.70
1	199.00	191.47	191.27
2	197.80	190.73	–
	197.80	189.72	189.53
3	198.50	188.99	188.79
4	197.50	–	191.44
PUMP STATION	–	187.48	–

RAW WATER 2				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	278032.03	2576630.76	193.50	16" 45° BEND
11	278031.92	2576425.28	193.50	16"X16" TEE
12	278035.68	2576425.28	193.50	16" GV
13	278031.92	2576378.27	193.50	16" GV
14	278031.92	2576373.55	193.50	16'X16" TEE
15	278031.95	2576369.03	193.50	12"X16" REDUCER
16	278031.92	2576365.14	193.50	12" GV
17	278035.56	2576373.55	193.50	16" GV
18	278032.14	2576053.15	193.50	12" 90° BEND
20	278178.49	2576373.55	193.50	16"X16" TEE, MJ W/PLUG
62	278058.19	2576373.56	193.50	16" PLUG

FINISHED WATER DATA TABLE 1				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	278159.78	2576605.49	194.50	16" 45° BEND
51	278117.95	2576638.91	194.50	16" 45° BEND
60	278289.75	2576497.03	195.00	HYDRANT



NOTES:

1. PIPING SHOULD HAVE TWO, 2" X 90 DEGREE BENDS TO COME ABOVE GRADE FOR THE HOSE CONNECTION.
2. AREA ALLOCATED FOR FUTURE TREATMENT, IF REQUIRED.
3. CONTRACTOR TO PROVIDE TEMPORARY SITE SECURITY FENCE DURING CONSTRUCTION, IN ACCORDANCE WITH 015000 TEMPORARY FACILITIES AND CONTROLS
4. MECHANICAL DRAWINGS MAY INDICATE PIPE ELEVATION AT STRUCTURES. CONTRACTOR TO ADJUST PIPE ELEVATIONS AS REQUIRED TO AVOID CONFLICTS IN THE YARD BETWEEN STRUCTURES.
5. PIPE ELEVATIONS REFER TO PIPE CENTERLINE, UNLESS OTHERWISE NOTED.
6. IF NO PIPE CENTERLINE ELEVATION IS PROVIDED, CONTRACTOR IS REQUIRED TO PROVIDE A MINIMUM OF 3FT OF COVER TO TOP OF PIPE.

PLAN
1" = 20'

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS H. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

YARD PIPING PLAN I

PROJECT NO. 20790-289282
FILE NAME: C011STPL.DWG
SHEET NO. C-11

ISSUED FOR BID

XREFs: [CDMS_2436, CWP00BST, CWP002ST, MWP001PS, MWP002PS, AWZ0000B - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, M006STPL, M011PSPL, M014PSSC, R_MWP001V, R_MWP002CH, M015CHPL, M004CLPL] Images: []
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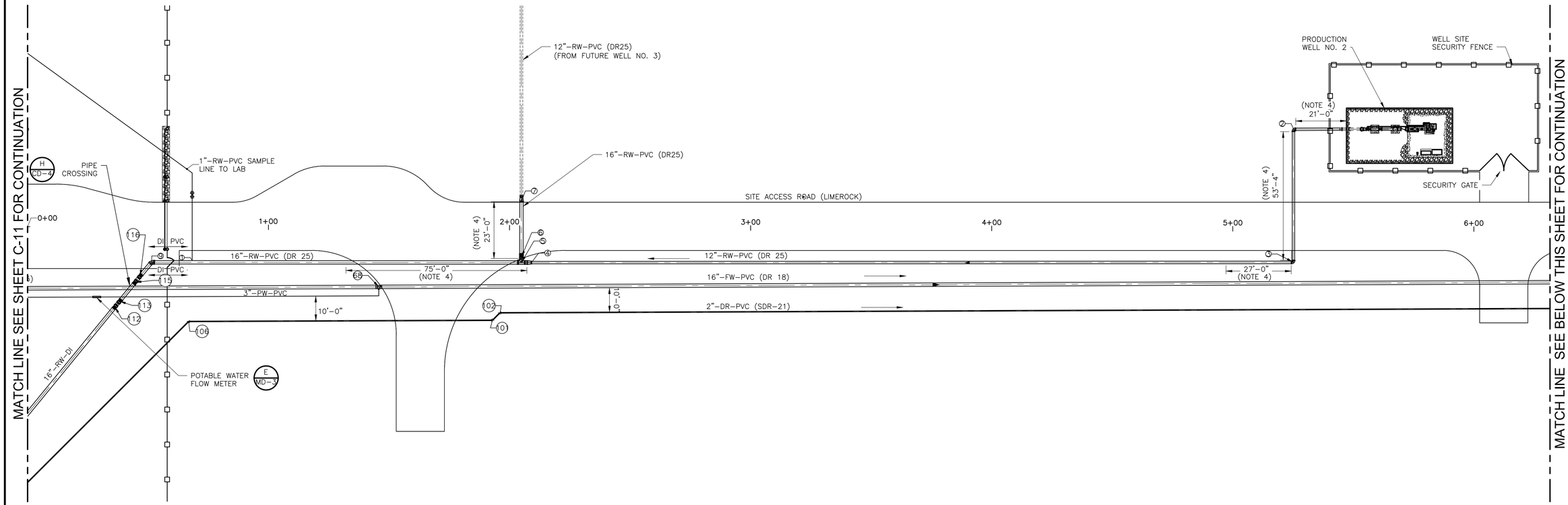
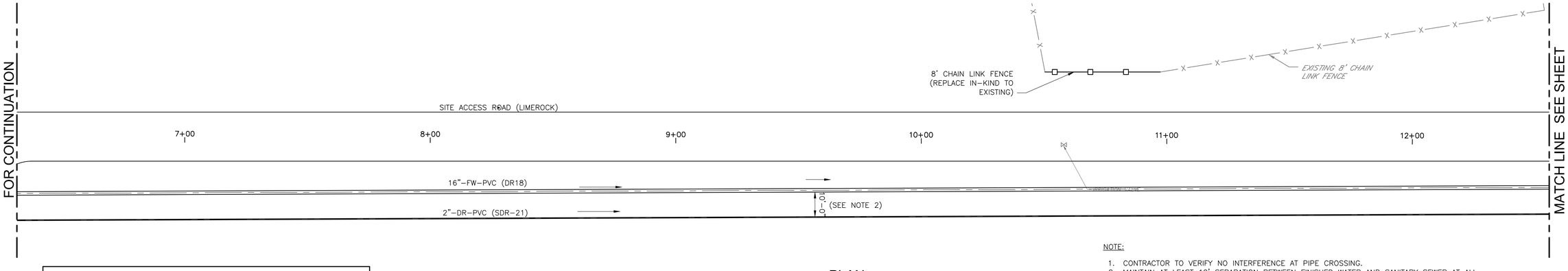
MATCH LINE SEE SHEET C-11 FOR CONTINUATION

MATCH LINE SEE BELOW THIS SHEET FOR CONTINUATION





PLAN
1" = 20'

1" = 20'
10 0 20

N

NOTE:

1. CONTRACTOR TO VERIFY NO INTERFERENCE AT PIPE CROSSING.
2. MAINTAIN AT LEAST 10' SEPARATION BETWEEN FINISHED WATER AND SANITARY SEWER AT ALL POINTS.
3. THE 16" RW AND 16" FW TRANSITION FROM DUCTILE IRON INSIDE THE FENCELINE OF THE PLANT PVC DR–25 AND DR–18 OUTSIDE THE FENCELINE, RESPECTIVELY.
4. UTILIZE RESTRAINT HARNESSES ON PVC PIPE IN LOCATIONS INDICATED ON THIS DRAWING.

RAW WATER 1				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	278129.25	2576726.92	192.34	1" SADDLE
2	278183.35	2577183.93	197.80	12"– 90° BEND
3	278128.65	2577183.48	197.80	12"– 90° BEND
4	278128.38	2576867.68	194.20	12"X16" REDUCER
5	278128.45	2576863.50	194.20	16"X16" TEE
6	278130.70	2576863.50	194.20	16" GV
7	278153.69	2576863.50	194.20	16"X12" REDUCER, MJ WITH PLUG
9	278128.41	2576710.12	192.34	16" 45° BEND

112	278110.00	2576694.91	192.34	16" 45° VERT. BEND
113	278112.35	2576696.83	190.38	16" 45° VERT. BEND
115	278120.21	2576703.28	190.38	16" 45° VERT. BEND
116	278122.78	2576705.38	192.34	16" 45° VERT. BEND

SANITARY SEWER 1				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	278104.46	2576851.50	196.00	2.5" 45° BEND
102	278107.50	2576854.61	196.00	2.5" 45° BEND
105	278015.73	2576637.18	198.88	2.5" 45° BEND
106	278103.89	2576725.50	196.00	2.5" 45° BEND

FINISHED WATER DATA TABLE 2				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
68	278118.30	2576804.32	196.00	3" SADDLE

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER
IOANNIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

YARD PIPING PLAN II

PROJECT NO. 20790–289282
FILE NAME: C012STPL.DWG

SHEET NO.
C-12

ISSUED FOR BID

XREFs: [CDMS_2436, CEP001SS, CWP002ST, MWP001PS, MWP002PS, CWP003ST, AWZ0000B - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, M006STPL, M011PSPL, CWP008ST, M014PSSC, R_MWP001V, R_MWP0022CH, M015CHPL, M004CLPL] Images: []
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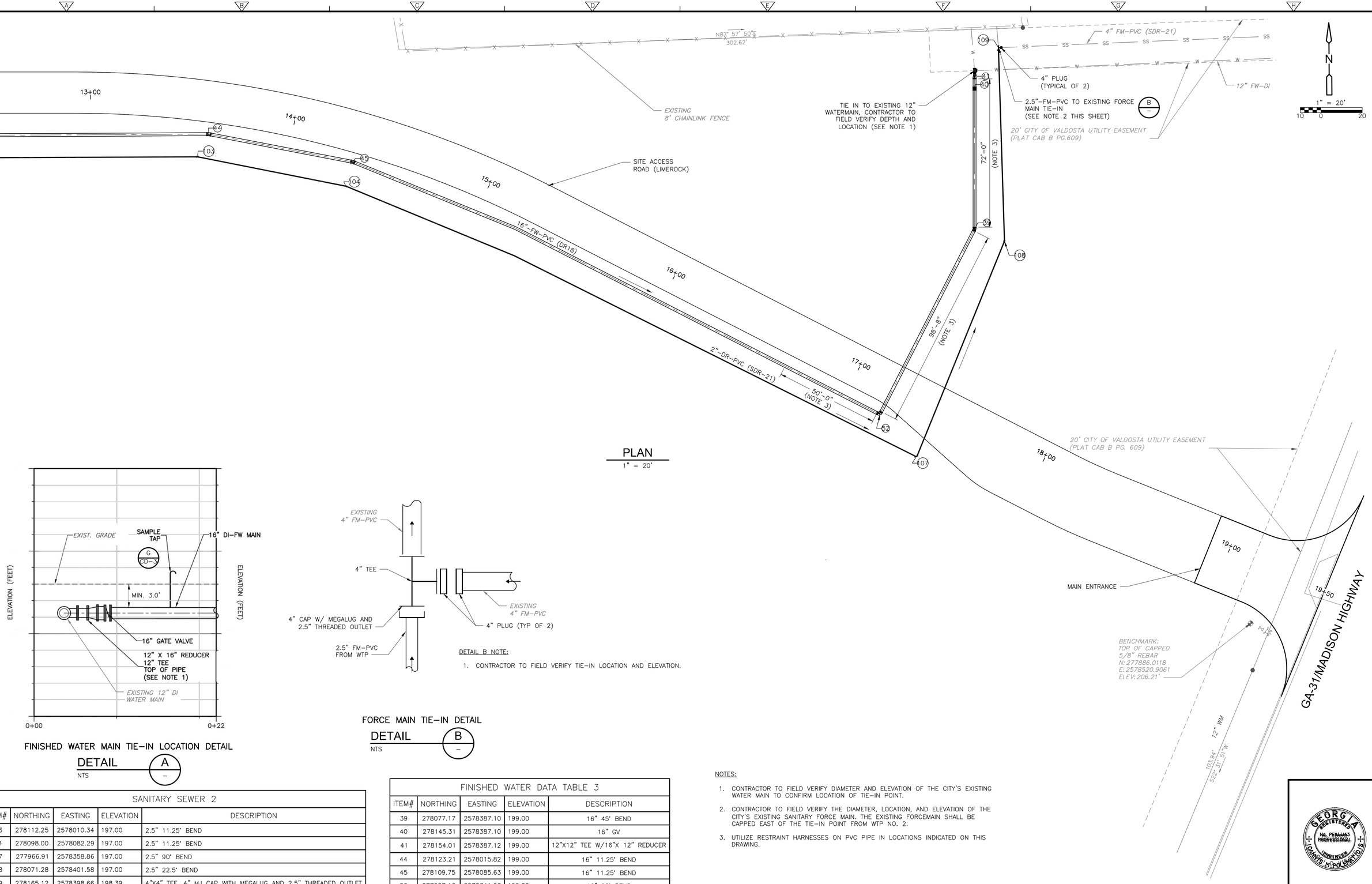
MATCH LINE SEE SHEET C-12 FOR CONTINUATION



PLAN
1" = 20'

FINISHED WATER MAIN TIE-IN LOCATION DETAIL
DETAIL A
NTS

DETAIL B NOTE:

1. CONTRACTOR TO FIELD VERIFY TIE-IN LOCATION AND ELEVATION.

FORCE MAIN TIE-IN DETAIL
DETAIL B
NTS

SANITARY SEWER 2				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
103	278112.25	2578010.34	197.00	2.5" 11.25° BEND
104	278098.00	2578082.29	197.00	2.5" 11.25° BEND
107	277966.91	2578358.86	197.00	2.5" 90° BEND
108	278071.28	2578401.58	197.00	2.5" 22.5° BEND
109	278165.12	2578398.66	198.39	4"X4" TEE, 4" MJ CAP WITH MEGALUG AND 2.5" THREADED OUTLET

FINISHED WATER DATA TABLE 3				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
39	278077.17	2578387.10	199.00	16" 45° BEND
40	278145.31	2578387.10	199.00	16" GV
41	278154.01	2578387.12	199.00	12"X12" TEE W/16"X 12" REDUCER
44	278123.21	2578015.82	199.00	16" 11.25° BEND
45	278109.75	2578085.63	199.00	16" 11.25° BEND
52	277987.16	2578341.23	199.00	16" 90° BEND

NOTES:

1. CONTRACTOR TO FIELD VERIFY DIAMETER AND ELEVATION OF THE CITY'S EXISTING WATER MAIN TO CONFIRM LOCATION OF TIE-IN POINT.
2. CONTRACTOR TO FIELD VERIFY THE DIAMETER, LOCATION, AND ELEVATION OF THE CITY'S EXISTING SANITARY FORCE MAIN. THE EXISTING FORCEMAIN SHALL BE CAPPED EAST OF THE TIE-IN POINT FROM WTP NO. 2.
3. UTILIZE RESTRAINT HARNESSES ON PVC PIPE IN LOCATIONS INDICATED ON THIS DRAWING.

GEORGIA REGISTERED No. PE041463 PROFESSIONAL ENGINEER I. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

YARD PIPING PLAN III

PROJECT NO. 20790-289282
FILE NAME: C013STPL.DWG
SHEET NO.
C-13

ISSUED FOR BID

XREFs: [CDMS_2436, CWP002ST, MWP001PS_, MWP002PS_, AWZ0000B - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, M006STPL, M011PSPL, CWP008ST, M014PSSC, R_MWP0011V, R_MWP002CH, M015CHPL, M004CLPL] Images: []
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SITE LOOP ROAD (ASPHALT)

1.0 MG GST 70' DIA (FUTURE)

1.0 MG GST 70' DIA.

FUTURE HIGH SERVICE PUMP STATION

STANDBY GENERATOR

CHEMICAL INJECTION VAULT

ENLARGED PLAN I (SEE SHEET C-15)

ENLARGED PLAN II (SEE SHEET C-16)

TRANSFORMER PAD

OPERATIONS BULDING

HIGH SERVICE PUMP STATION

FLOW METER PAD

ALLOCATED SPACE FOR FUTURE TREATMENT

TRANSFER PUMPS

FUTURE CO2 STORAGE AND FEEDING SYSTEM

FUTURE DEGASIFICATION COMPLEX

CHEMICAL STORAGE AREA

ENLARGED PLAN III (SEE SHEET C-17)

DEGASIFICATION COMPLEX No. 1

12"-RW-DI FROM WELL NO. 1

16"-RW-DI FROM WELL NO. 2

1"-FW-PVC (SCH 80) TO WELL NO. 1

2"-DR-PVC (SDR 21)

N

1" = 20'

10 0 20

PLAN
1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ENLARGED AREAS
KEY PLAN

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

PROJECT NO. 20790-289282
FILE NAME: C014STPL.DWG

SHEET NO.
C-14

ISSUED FOR BID

XREFs: [CDMS_2436, CWP002ST, MWP001PS, MWP002PS, AW20000B – 3D View – 3D Process Export, MWP001CH, R_MWP001CW, SW2000HS – HSPS Plan, M006STPL, M011PSPL, CWP008ST, M014PSSC, R_MWP001IV, R_MWP002CH, M015CHPL, M004CLPL] Images: []
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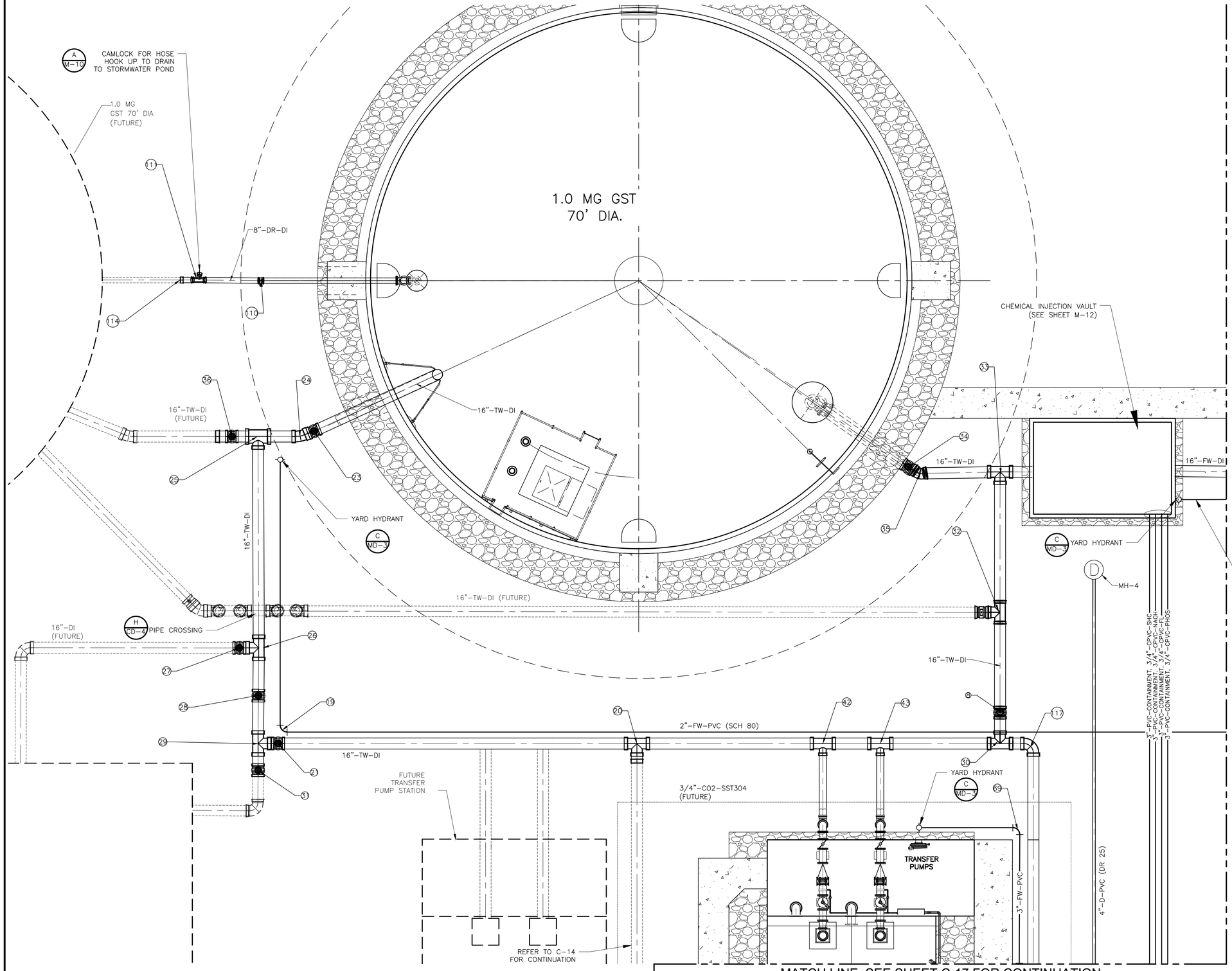

NOTE:

1. SEE DETAIL A AND B ON SHEET CD–7 FOR MANHOLE DETAIL.

N

1" = 6'

3 0 6

POINT DATA
ENLARGED PLAN I

ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
8	278182.69	2576420.93	193.28	16" GV
19	278180.25	2576327.28	195.25	2" 90° BEND
20	278178.49	2576373.55	193.50	16"X16" TEE, MJ W/PLUG
21	278178.50	2576326.74	193.28	16" GV
23	278219.28	2576331.42	193.28	16" GV
24	278218.63	2576329.61	193.28	16" 22.5° BEND
25	278218.56	2576324.04	193.28	16"X16" TEE
26	278190.98	2576324.78	193.28	16"X16" TEE
27	278190.95	2576321.65	193.28	16" GV AND MJ PLUG
28	278184.77	2576324.17	193.28	16" GV
29	278178.46	2576324.18	193.28	16"X16" TEE/16" GV
30	278178.77	2576420.66	193.28	16"X16" TEE
31	278175.00	2576324.13	193.28	16" GV MJ WITH PLUG
32	278195.83	2576420.74	193.28	16" X16" TEE AND MJ GATE VALVE W/PLUG
33	278213.70	2576421.04	193.28	16"X16" TEE
34	278214.56	2576408.94	193.28	16" GV
35	278213.74	2576410.47	193.28	16" 45° BEND
36	278218.56	2576320.70	193.28	16" GV
42	278178.49	2576397.81	193.28	16"X10" TEE
43	278178.49	2576405.30	193.28	16"X10" TEE
69	278167.25	2576423.23	195.25	3" 90° BEND
110	278238.89	2576324.54	192.62	8" GV
111	278239.19	2576316.07	192.62	8"X8" TEE
114	278238.99	2576313.93	192.62	CONN. POINT/8" GV TO FUTURE TANK AND MJ PLUG
117	278178.12	2576424.91	193.28	16" 90° BEND

PLAN
1" = 6'

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER (OMNIS H. POLEMATIDIS)

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ENLARGED YARD PIPING PLAN I

PROJECT NO. 20790–289282
FILE NAME: C015STPL.DWG

SHEET NO.
C-15

ISSUED FOR BID

XREFs: [CDMS_2436, CWP002ST, MWP001PS, MWP002PS, AWZ0000B - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, R_MWP002CH, M006STPL, M011PSPL, CWP008ST, M014PSSC, R_MWP001V, M015CHPL, M004CLPL] Images: []
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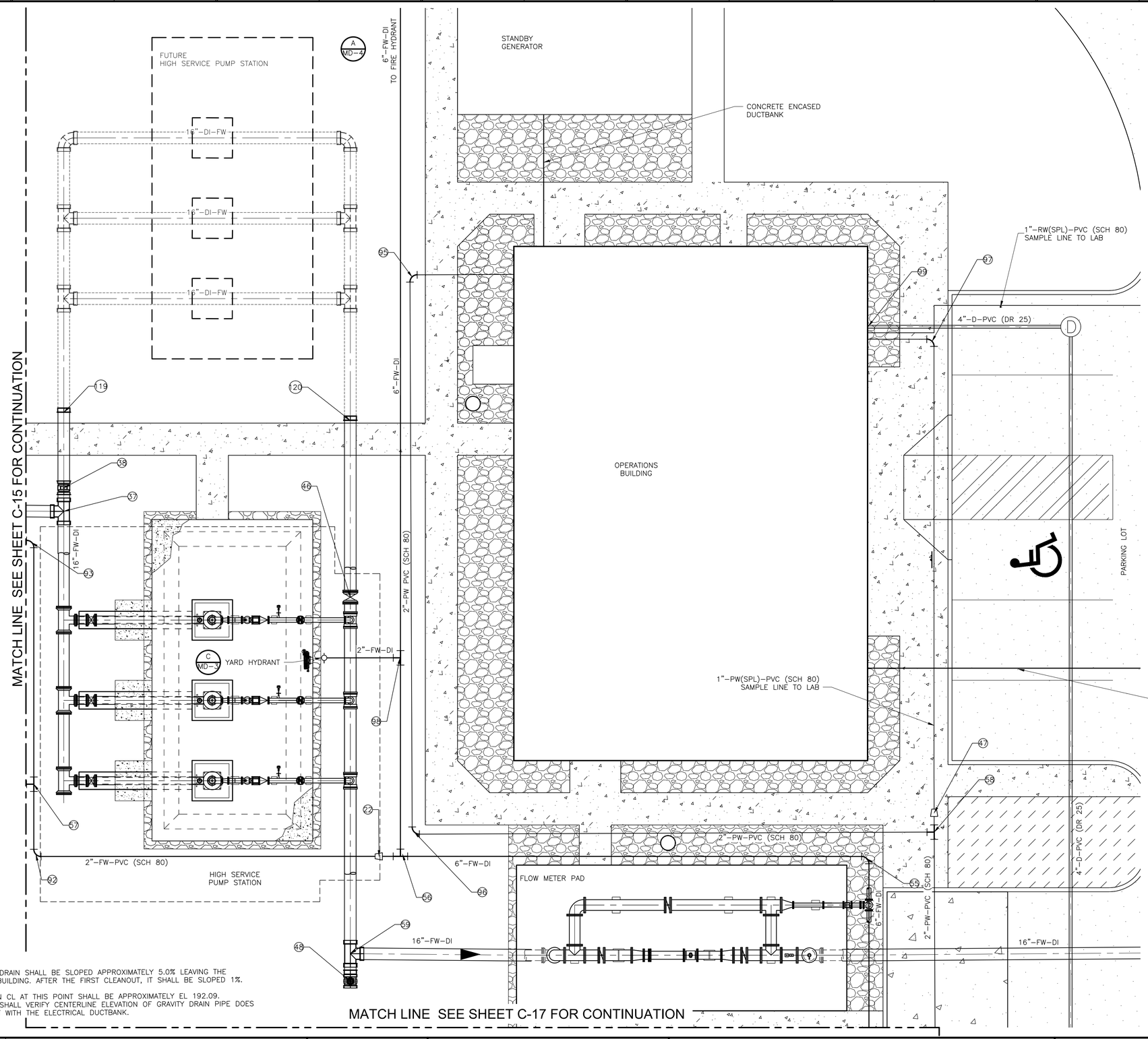

NOTE:

1. THE GRAVITY DRAIN SHALL BE SLOPED APPROXIMATELY 5.0% LEAVING THE OPERATIONS BUILDING. AFTER THE FIRST CLEANOUT, IT SHALL BE SLOPED 1%.
2. GRAVITY DRAIN CL AT THIS POINT SHALL BE APPROXIMATELY EL 192.09. CONTRACTOR SHALL VERIFY CENTERLINE ELEVATION OF GRAVITY DRAIN PIPE DOES NOT CONFLICT WITH THE ELECTRICAL DUCTBANK.

PLAN
1" = 6'

POINT DATA
ENLARGED PLAN II

ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
22	278171.01	2576494.37	193.00	6"X2" REDUCER
37	278213.94	2576455.13	193.28	16"X16" TEE
38	278216.87	2576455.16	193.28	16" GV
46	278203.26	2576490.80	194.50	16" GV
47	278176.41	2576563.42	193.50	2"X1" REDUCER
48	278155.46	2576490.80	194.50	16" GV, MJ W/PLUG
55	278170.73	2576555.04	193.00	6" 90° BEND
56	278171.27	2576497.30	193.00	6"X6" TEE
57	278179.99	2576451.44	195.00	2"X2" TEE
58	278174.03	2576563.43	193.50	2"X2" TEE
59	278158.88	2576490.81	194.50	16"x16" W/ 16" PLUG
60	278289.75	2576497.03	195.00	HYDRANT
92	278171.25	2576451.70	195.00	2" 90° BEND
93	278210.07	2576451.17	195.00	2" 90° BEND
95	278243.12	2576498.49	193.50	2" 90° BEND
96	278174.03	2576498.76	193.50	2" 90° BEND
97	278235.10	2576563.16	193.50	1" 90° BEND
98	278195.73	2576496.99	193.00	4"X6" TEE, 4" MJ PLUG WITH 2" THREADED OUTLET
99	278236.99	2576555.23	193.77	CONN. POINT AT OPERATIONS BLDG
119	278226.26	2576455.17	193.28	16" PLUG
120	278225.25	2576490.80	194.50	16" PLUG

GEORGIA REGISTERED No. PEO11145 PROFESSIONAL ENGINEER JOANNIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ENLARGED YARD PIPING PLAN II

PROJECT NO. 20790-289282
FILE NAME: C016STPL.DWG

SHEET NO.
C-16

ISSUED FOR BID

XREFs: [CDMS_2436_CWP002ST, MWP001PS, MWP002PS, AW2000B - 3D View - 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS - HSPS Plan, R_MWP002CH, M006STPL, M011PSPL, CWP008ST, M014PSSC, R_MWP001V, M015CHPL, M004CLPL] Images: []
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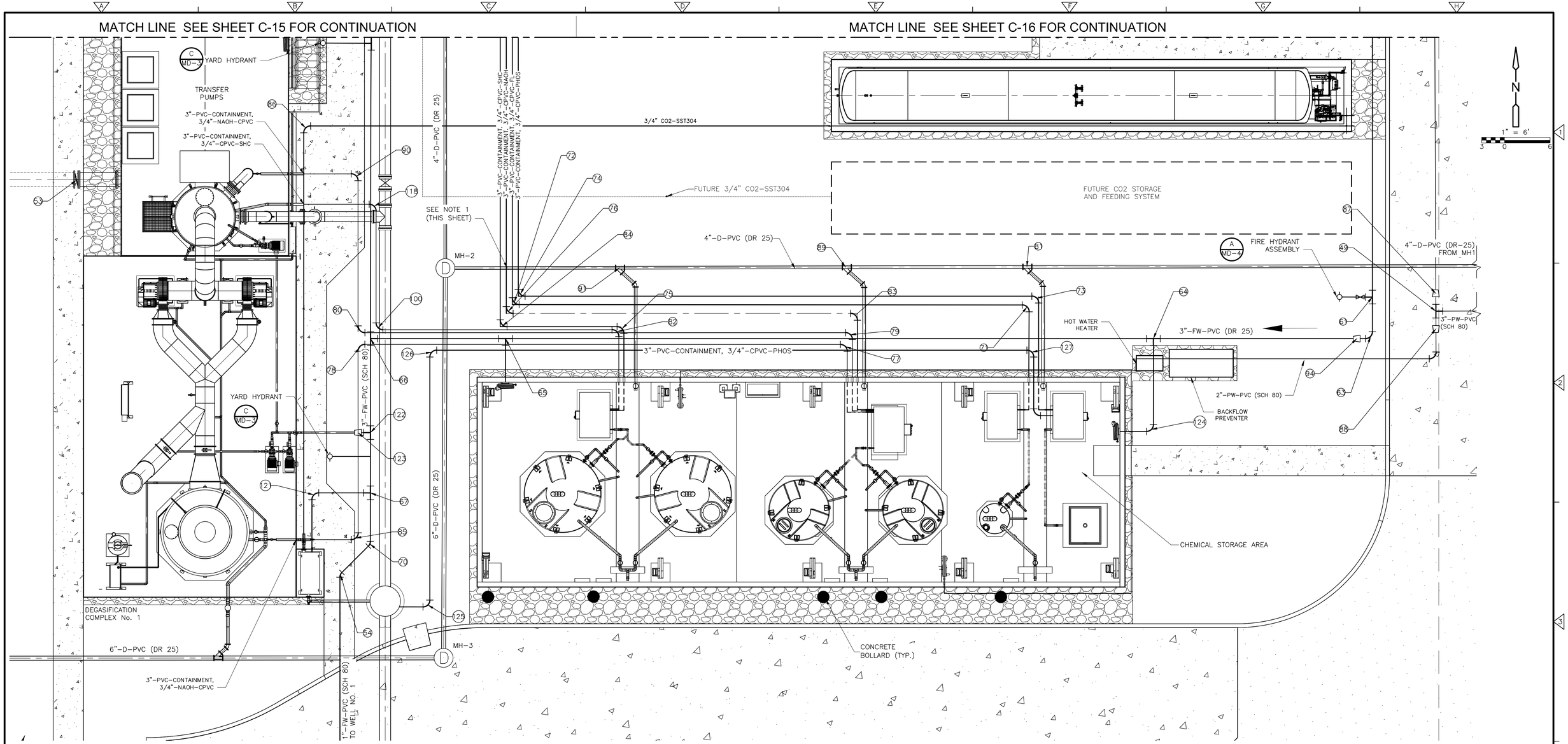


PLAN
1" = 6'

POINT DATA ENLARGED PLAN III				
ITEM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
49	278113.61	2576563.67	193.50	3"X3" TEE
53	278130.87	2576384.62	196.74	20" MJ BUTTERFLY VALVE
54	278078.90	2576419.39	195.75	3" 45° BEND
61	278115.47	2576555.30	195.25	HYDRANT ASSEMBLY
63	278110.31	2576555.08	195.25	6" 90° BEND
64	278110.00	2576526.46	195.25	3"X3" TEE
65	278110.00	2576441.14	195.25	6"X6" TEE
66	278110.00	2576423.36	195.75	3"X3" TEE
67	278089.67	2576423.33	195.75	3"X3" TEE
70	278082.94	2576423.25	195.75	3" 45° BEND
71	278114.17	2576509.83	194.00	3" 90° BEND
72	278114.75	2576442.28	194.00	3" 90° BEND
73	278115.33	2576511.09	194.00	3" 90° BEND
74	278115.86	2576443.07	194.00	3" 90° BEND
75	278111.30	2576456.46	194.00	3" 90° BEND
76	278113.59	2576441.49	194.00	3" 90° BEND
77	278108.96	2576485.87	194.00	3" 90° BEND
78	278108.85	2576421.95	195.00	3" 90° BEND
79	278110.51	2576486.52	194.00	3" 90° BEND
80	278111.04	2576421.98	195.00	3" 90° BEND
81	278119.45	2576509.80	190.70	4" WYE
82	278110.91	2576455.79	194.00	3" 90° BEND
83	278113.06	2576487.21	194.00	3" 90° BEND
84	278111.66	2576440.70	194.00	3" 90° BEND
85	278083.70	2576421.35	195.00	3" 90° BEND
86	278137.75	2576414.81	195.50	3/4" 90° BEND
87	278115.94	2576563.67	193.50	3"X2" REDUCER
88	278111.29	2576563.68	193.50	3"X2" REDUCER
89	278119.40	2576485.93	190.10	4" WYE
90	278131.38	2576421.48	195.00	3" 90° BEND
91	278119.34	2576456.16	189.80	4" WYE
94	278110.00	2576553.27	195.25	6"X3" REDUCER
100	278111.44	2576424.35	195.00	3" 90° BEND
118	278127.43	2576423.82	195.00	3" 90° BEND
121	278089.40	2576415.90	195.75	3" 90° BEND
122	278097.61	2576423.34	195.75	3"X3" TEE
123	278097.61	2576421.72	195.75	3"X2" REDUCER
124	278098.03	2576526.20	195.25	3" 90° BEND
125	278074.91	2576430.89	192.00	3" 90° BEND
126	278108.21	2576431.42	192.50	3" 90° BEND
127	278108.21	2576510.44	193.00	3" 90° BEND

NOTE:
1. COORDINATE PIPE CENTERLINES AT CROSSING TO ENSURE NO CONFLICT.
2. SEE DETAIL A AND B ON SHEET CD-7 FOR MANHOLE DETAIL.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

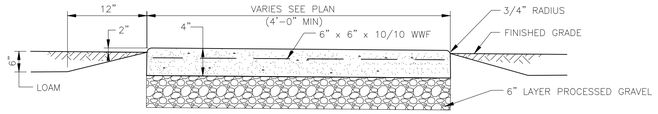
ENLARGED YARD PIPING PLAN III

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

PROJECT NO. 20790-289282
FILE NAME: C017STPL.DWG

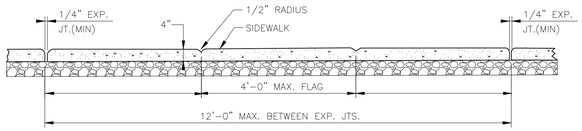
SHEET NO.
C-17

ISSUED FOR BID



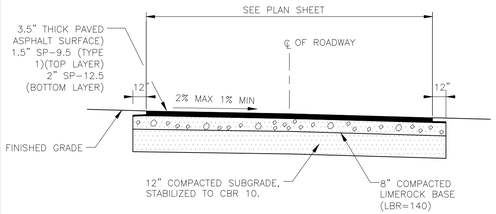
CONCRETE WALK SECTION

DETAIL A
NTS



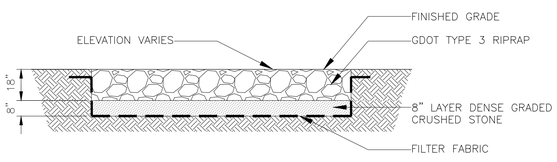
FLAG AND EXPANSION JOINT

DETAIL E
NTS



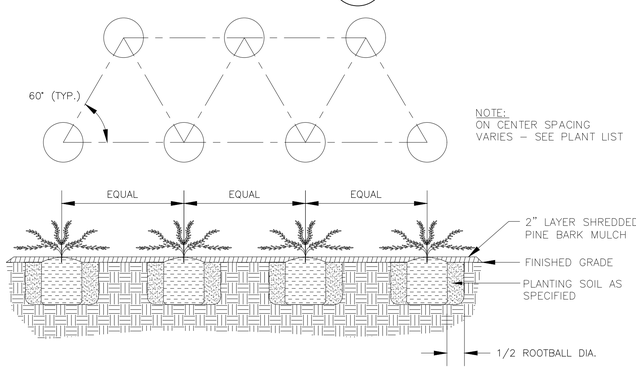
ASPHALT ROADWAY – CROSS SLOPE SECTION

DETAIL H
NTS



DUMPED RIPRAP

DETAIL L
NTS

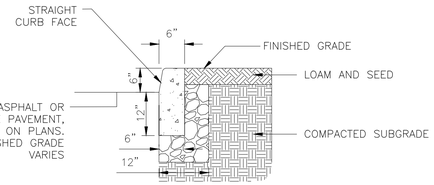


GROUNDCOVER LIST

QTY.	SPECIES	COMMON	SIZE	NOTES
250	OPHIOPOGON JAPONICUS	LILYTURF	#1 CONT.	WELL ESTABLISHED

GROUNDCOVER PLANTING

DETAIL Q
NTS

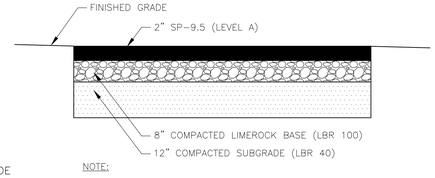


CONCRETE HEADER CURB

DETAIL B
NTS

CRUSHED STONE SURFACING

DETAIL F
NTS

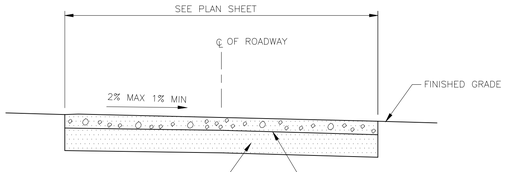


NOTE:

BASE AND SUBGRADE COMPACTION TO A MINIMUM OF 98% MAXIMUM DENSITY AASHTO T-180 METHOD

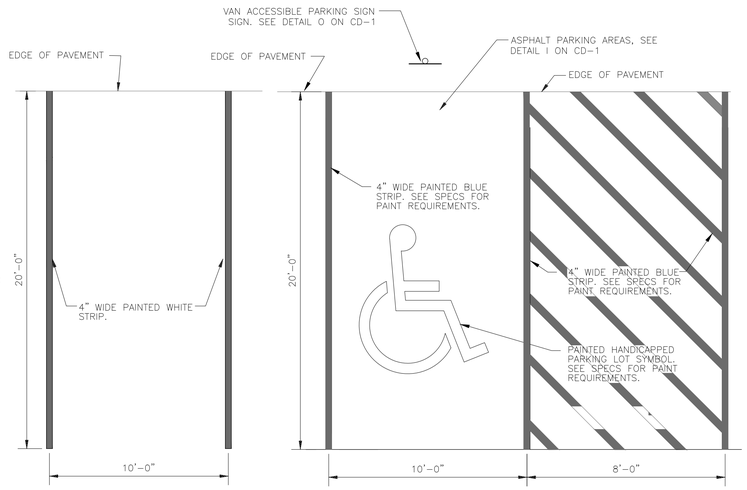
ASPHALT PARKING AREAS

DETAIL I
NTS



LIMEROCK ROADWAY – CROSS SLOPE SECTION

DETAIL J
NTS

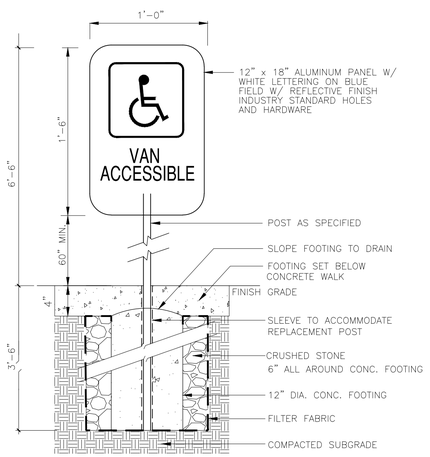


TYPICAL PARKING SPACE

DETAIL M
NTS

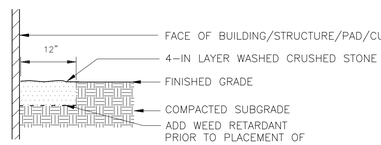
VAN ACCESSIBLE PARKING SPACE

DETAIL N
NTS



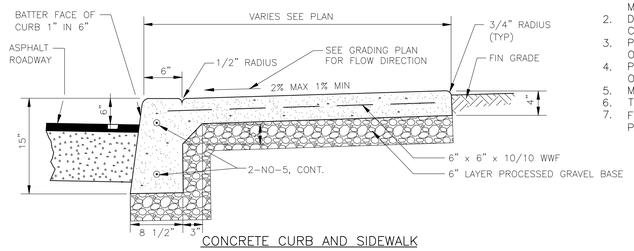
VAN ACCESSIBLE PARKING SIGN

DETAIL O
NTS



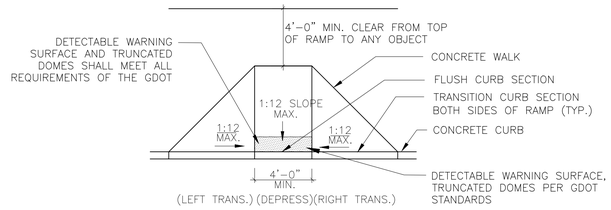
CRUSHED STONE MOW STRIP

DETAIL C
NTS



CONCRETE CURB AND SIDEWALK

DETAIL G
NTS

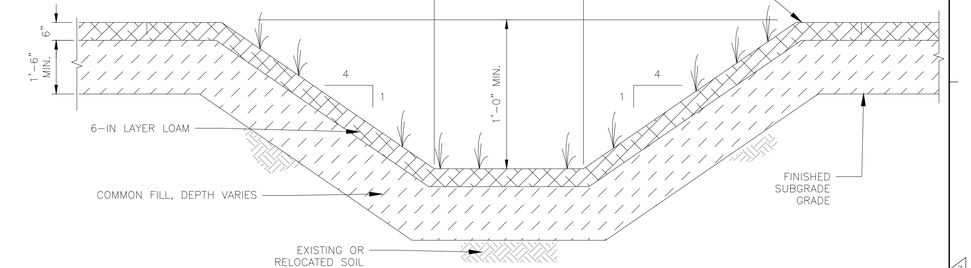


NOTES:

1. ALL RELEVANT DETAILS TO COMPLY WITH GDOT STANDARD CONSTRUCTION DETAILS MANUAL.
2. DIMENSIONS ARE SUBJECT TO CHANGE IN FIELD. ALL SLOPES AND DIMENSIONS TO COMPLY WITH A.D.A. REQUIREMENTS.
3. PROVIDE EXPANSION JOINT AT TOPS OF RAMP AND AT BACK OF WALK AT INTERFACE OF CURB.
4. PROVIDE HEAVY BROOM FINISH ON RAMP AND SIDE SLOPES PERPENDICULAR TO FLOW OF TRAFFIC.
5. MINIMUM WALK DIMENSIONS ARE FROM BACK OF CURB.
6. TRANSITION CURB LENGTH AS REQUIRED TO MEET CODE.
7. FIXED OBJECTS (i.e. UTILITY POLES, HYDRANTS ETC.) MUST NOT ENCROACH ON ANY PART OF A WHEELCHAIR RAMP, INCLUDING TRANSITION SLOPES.

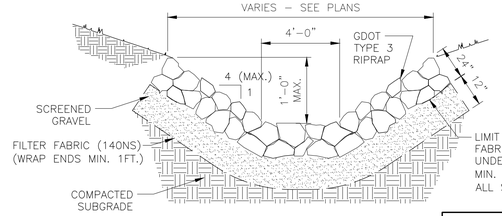
ACCESSIBLE CURB RAMP

DETAIL D
NTS



VEGETATED DRAINAGE SWALE

DETAIL K
NTS



RIPRAP SWALE SECTION

DETAIL P
NTS

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: M. CARLSON
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL DETAILS I

PROJECT NO. 20790-289282
FILE NAME: CD01NFDT.DWG

SHEET NO.
CD-1

ISSUED FOR BID

XREFs: [CDMS_2436] Images: []
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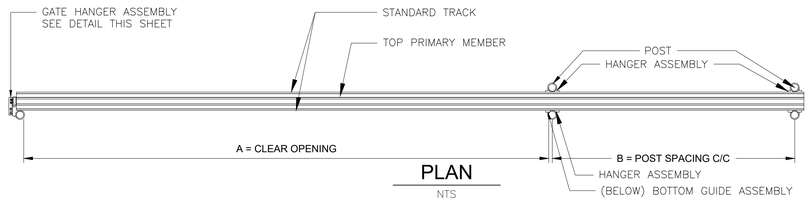
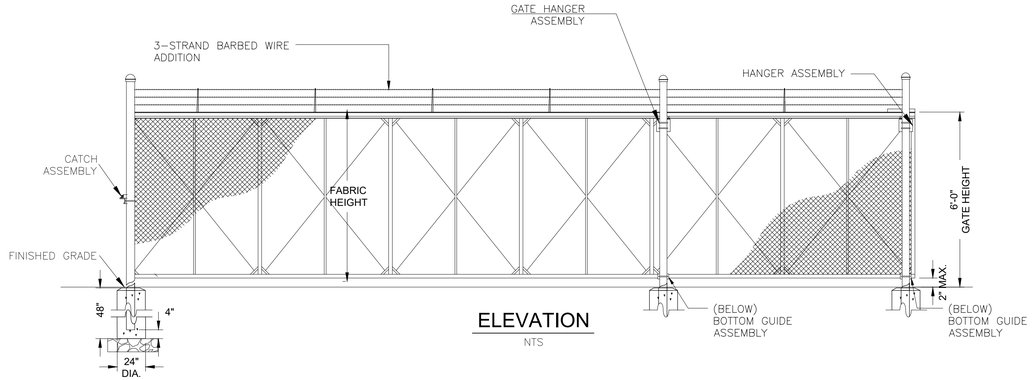


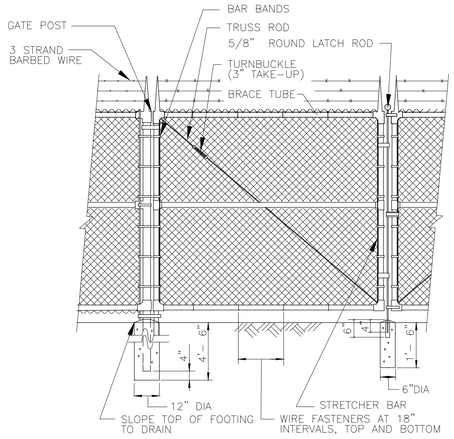
PLAN

NTS



ELEVATION

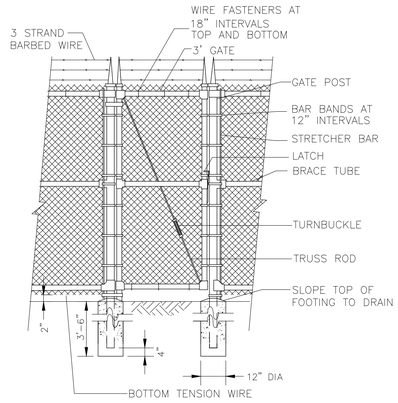
NTS



CHAIN LINK FENCE–DOUBLE SWING GATE

DETAIL B

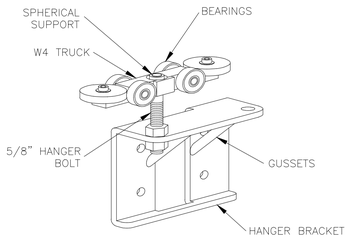
NTS



PEDESTRAIN CHAIN LINK FENCE GATE

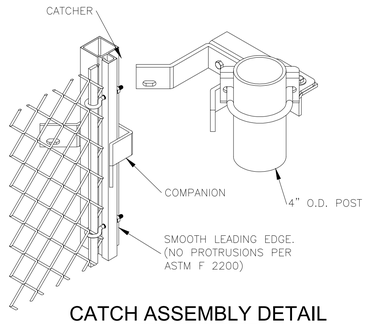
DETAIL C

NTS



GATE HANGER ASSEMBLY DETAIL

NTS



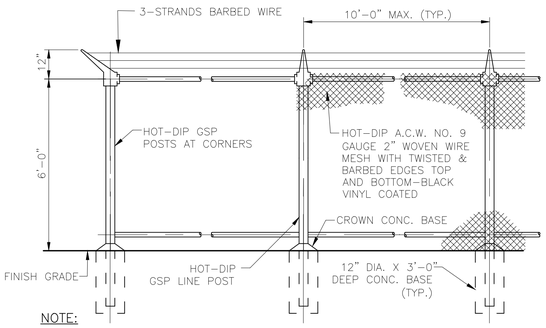
CATCH ASSEMBLY DETAIL

NTS

NOTES:

1. SLIDE GATE MATERIALS, ASSOCIATED HARDWARE AND MOTOR SHALL BE FROM SAME MANUFACTURER, SEE SPECIFICATIONS.

CRITICAL DIMENSION CHART			
MARK	DESCRIPTION	FORMULA	DIM. GATE
A	CLEAR OPENING	A	20'–0"
B	COUNTERBALANCE POST SPACING C/C	(A/2)–11"	9'–1"
C	OVERALL GATE LENGTH	A x 1.5	30'–0"
D	COUNTERBALANCE LENGTH	A x 0.5	10'–0"



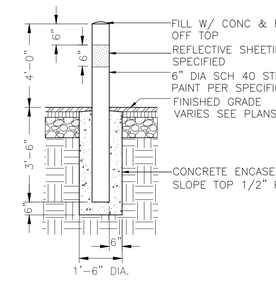
NOTE:

FENCING, POSTS, BRACING AND FITTING SHALL BE BLACK VINYL COATED PER SPECIFICATIONS.

CHAIN LINK FENCE

DETAIL D

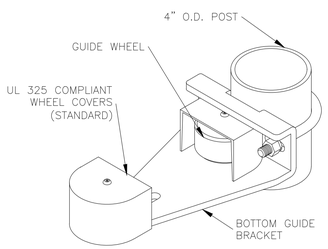
NTS



STEEL BOLLARD

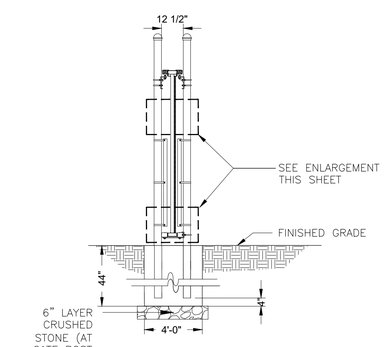
DETAIL E

NTS



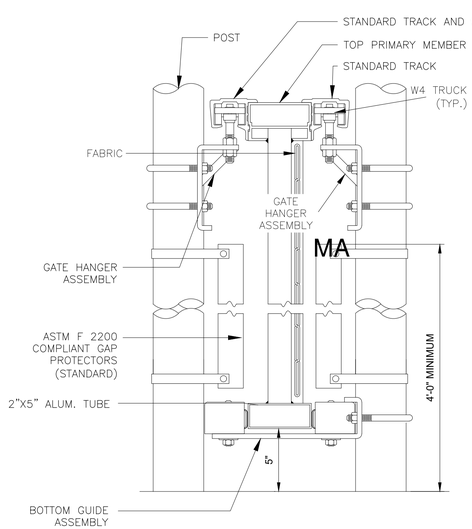
BOTTOM GUIDE ASSEMBLY DETAIL

NTS



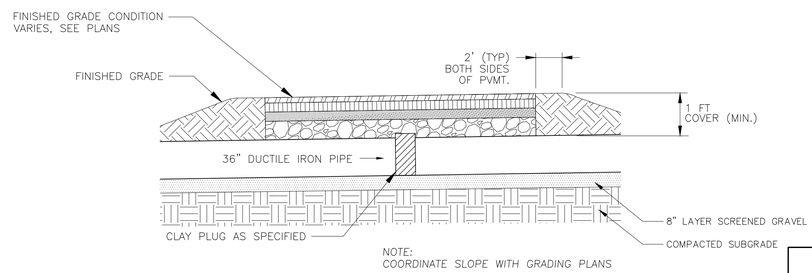
SECTION 1

NTS



SECTION 1 ENLARGEMENT

NTS



PIPE CULVERT

DETAIL F

NOT TO SCALE

CANTILEVER SLIDING GATE

DETAIL A

NTS

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER DAMIAN M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. DODSON
DRAWN BY: M. CARLSON
SHEET CHK'D BY: M. DODSON
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2 AND PRODUCTION WELLS

CIVIL DETAILS II

PROJECT NO. 20790–289282
FILE NAME: CD02NFDT.DWG

SHEET NO.
CD-2

ISSUED FOR BID

XREFs: [CDMS_2436] Images: []
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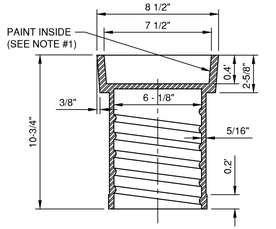
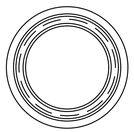
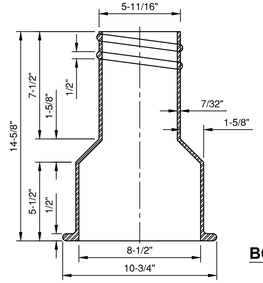
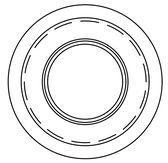


HEAVY DUTY RATING



TOP SECTION VIEW
(23 LBS. APPROX.)



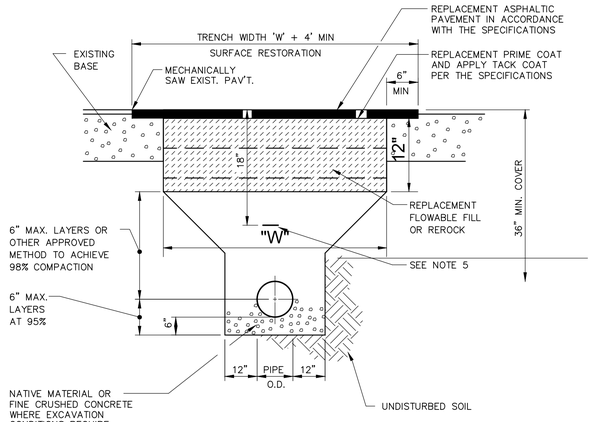


BOTTOM SECTION VIEW
(26 LBS. APPROX.)

NOTES:

1. PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH APPLICABLE COLOR (BLUE OR PURPLE)
2. HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
3. REFERENCE SECTION 351, PARAGRAPH X.2.

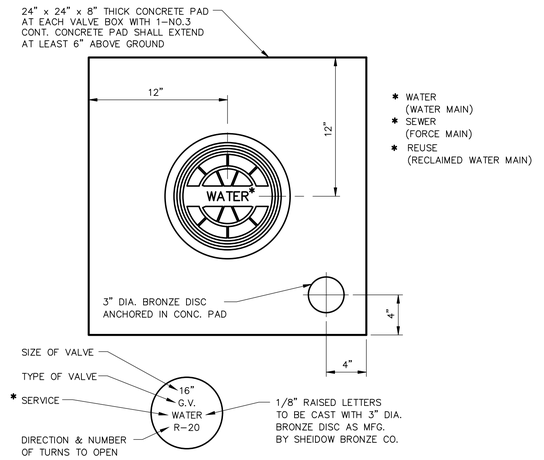
WATER SYSTEM VALVE
DETAIL A
NTS



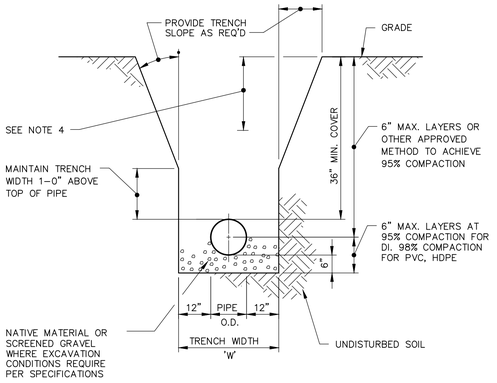
NOTES:

1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE ALTERNATE METHOD OF CONSTRUCTION TO COMPLY WITH THE GEORGIA TRENCH SAFETY ACT.
2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
3. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED AND KEYED JOINTS (1 1/2" MIN. THK.)
4. COMPACTION PERCENTAGES SHOWN REFER TO ASTMD 698.
5. FOR PVC AND HDPE PIPE – INSTALL METALLIC TAPE OVER FULL LENGTH OF PIPE. SEE SPECIFICATIONS.

PAVED AREAS
DETAIL B
NTS



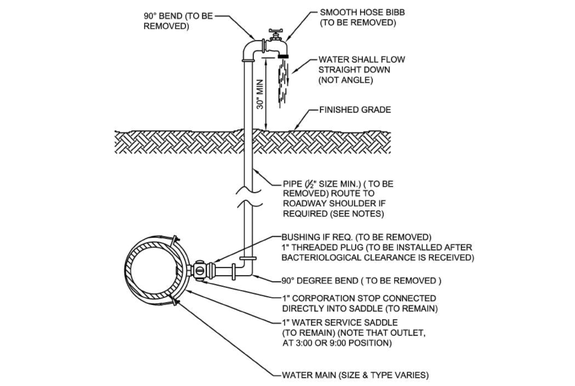
CONCRETE VALVE PAD / IDENT. DISC
DETAIL C
NTS



NOTES:

1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE ALTERNATE METHOD OF CONSTRUCTION TO COMPLY WITH THE GEORGIA TRENCH SAFETY ACT.
2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
3. COMPACTION PERCENTAGES SHOWN REFER TO ASTMD 698.
4. FOR PVC AND HDPE PIPE – INSTALL METALLIC TAPE OVER FULL LENGTH OF PIPE. SEE SPECIFICATIONS.

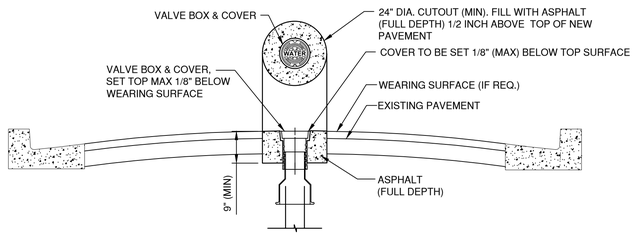
(UNPAVED AREAS)
TRENCH DETAILS
DETAIL D
NTS



NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

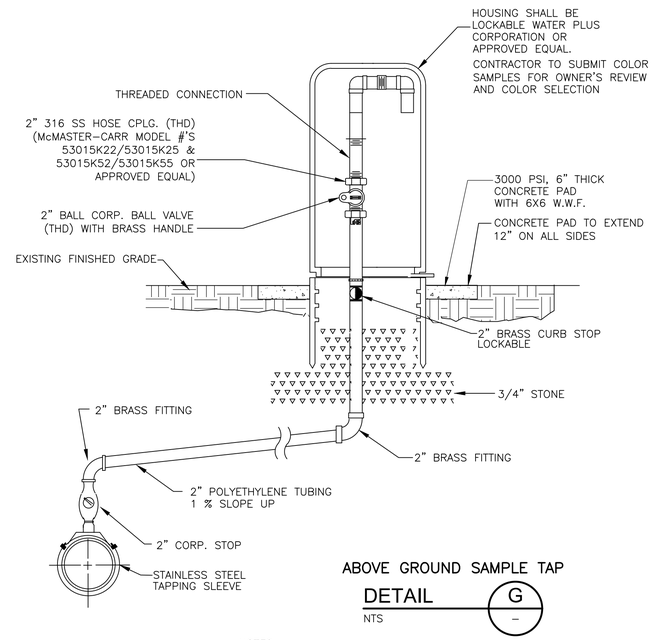
TEMPORARY SAMPLE TAP
DETAIL E
NTS



NOTES :

1. PROVIDE FULL DEPTH ASPHALT 1/2 INCH ABOVE TOP OF NEW PAVEMENT LEVEL, TO ALLOW FOR FUTURE ASPHALT MATERIAL COMPACTION. PLACE AND COMPACT ASPHALT IN 2" (MAX) LIFTS.

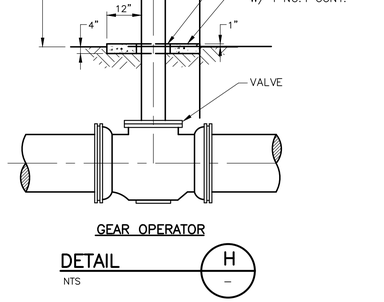
WATER VALVE JACKET ADJUSTED TO ROADWAY AFTER RE–SURFACING
DETAIL F
NTS



ABOVE GROUND SAMPLE TAP
DETAIL G
NTS

NOTES:

1. FINAL ENCLOSURE LOCATION SHALL BE COORDINATED WITH AND APPROVED BY OWNER.
2. HOUSING SHALL BE SIZED ACCORDING TO SERVICE TYPE AND LOCATION.



GEAR OPERATOR
DETAIL H
NTS

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS H. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSIAS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL DETAILS III

PROJECT NO. 20790–289282
FILE NAME: CD03NFDT.DWG
SHEET NO. CD-3

ISSUED FOR BID

XREFs: [CDMS_2436] Images: []
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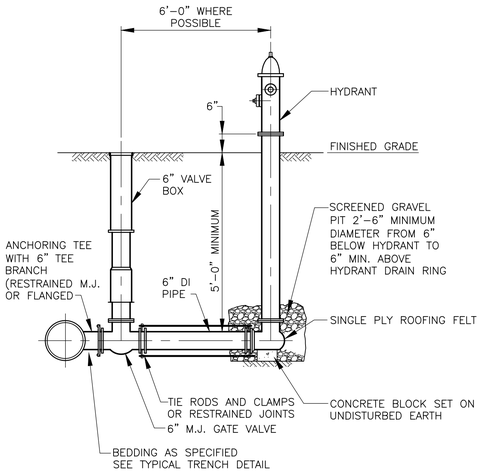
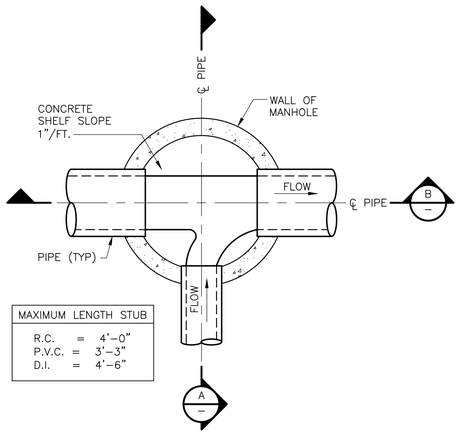


SECTION

STANDARD HYDRANT CONNECTION

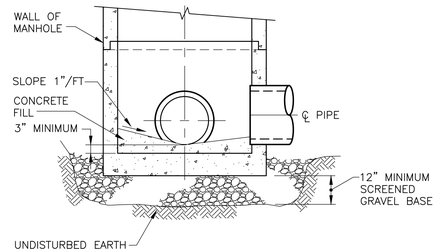
DETAIL A / NTS



PLAN

DRAIN MANHOLE

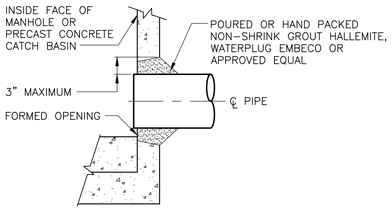
DETAIL B / NTS



SECTION A–A

DRAIN MANHOLE

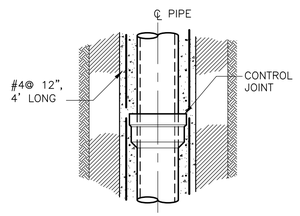
DETAIL C / NTS



NOTE:
THE CONTRACTOR MAY USE A–LOK OR "KOR–N–SEAL" AT HIS OPTION

MANHOLE PIPE CONNECTION FOR DRAIN MANHOLE AND CATCH BASIN

DETAIL D / NTS



PLAN

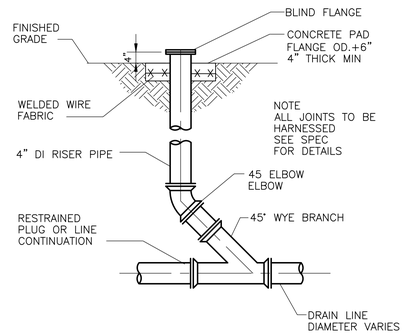
SECTION

NOTES:

1. CONTROL JOINTS SHALL COINCIDE WITH PIPE JOINTS. MAXIMUM DISTANCE BETWEEN CONTROL JOINTS SHALL BE 24'±
2. REINFORCING STEEL TO BE USED ONLY WHEN DEPTH OF COVER TO TOP OF SURFACE OF CONCRETE IS 5'–0" OR LESS

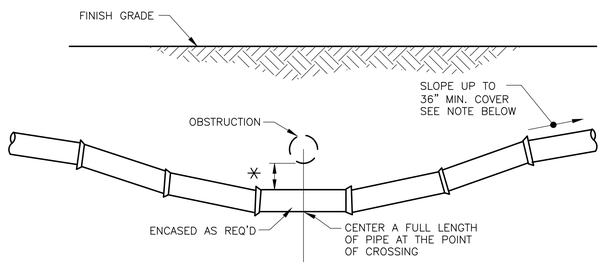
CONCRETE ENCASEMENT DETAIL

DETAIL E / NTS



PIPE LINE CLEANOUT

DETAIL F / NTS



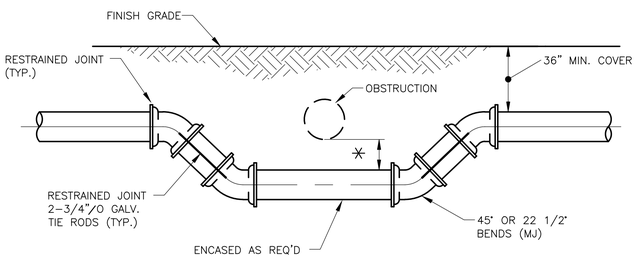
STANDARD UTILITY CROSSING – DEFLECTION TYPE

NOTE:

1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHERE EVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT STANDARD CROSSING USING NO MORE THAN 75% OF MANUFACTURERS MAXIMUM JOINT DEFLECTION (MAX.)
3. COAT TIE RODS WITH A COAL TAR EPOXY AFTER ASSEMBLY. (2 COATS MIN.)
4. TIE RODS MAY BE OMITTED WHEN OTHER APPROVED METHODS OF RESTRAINING ARE UTILIZED.
5. ALL JOINTS SHALL BE MECHANICAL RESTRAINED JOINTS, 12" OR LARGER.

UTILITY CROSSING

DETAIL G / NTS



SPECIAL UTILITY CROSSING – FITTING TYPE

* 18" MIN. CLEARANCE REQUIRED FOR WATER AND SEWER MAIN CROSSINGS. 12" MIN. CLEARANCE REQUIRED FOR OTHER TYPE UTILITIES CROSSING. SEE WATER AND SEWER SEPARATION STATEMENT ON THIS SHEET. 24" MIN CLEARANCE REQUIRED FOR ELECTRICAL DUCT BANKS

UTILITY CROSSING

DETAIL H / NTS

STANDARD WATER AND SEWER SEPARATION STATEMENT

1. STORM AND SANITARY SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS AND BOTH PIPES SHALL BE D.I.P. WHERE THERE IS NOT ALTERNATIVE TO SEWER PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION BETWEEN LINES AND JOINTS IN THE ABOVE, SHALL BE REQUIRED AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
2. MAINTAIN TEN (10) FEET HORIZONTAL DISTANCE BETWEEN WATER MAIN AND STORM OR SANITARY SEWER MAIN, AS A MINIMUM.
3. FORCE MAIN CROSSING WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE WATER MAIN WITH WATER CROSSING OVER THE FORCE MAIN.

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSIAS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL DETAILS IV

PROJECT NO. 20790–289282
FILE NAME: CD04NFDT.DWG

SHEET NO.
CD-4

ISSUED FOR BID

XREFs: [47814A 040207–CDMS, 47841A1 042604, 47861A1 042604–CDMS, 47833A1 090902–CDMS, 47851A1 042604–CDMS, CDMS_2436] Images: []
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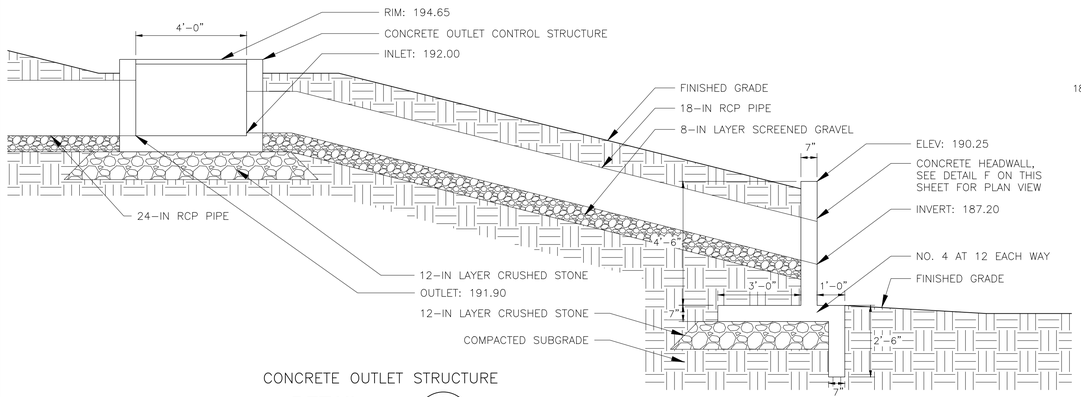
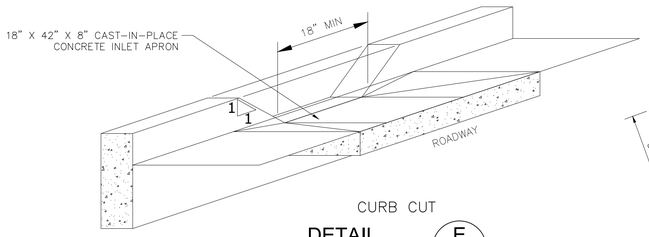


CONCRETE OUTLET STRUCTURE

DETAIL A

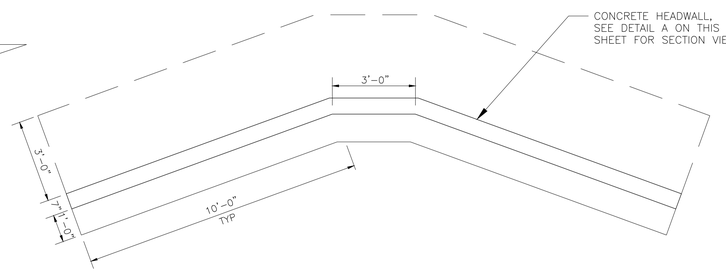
NTS



CURB CUT

DETAIL E

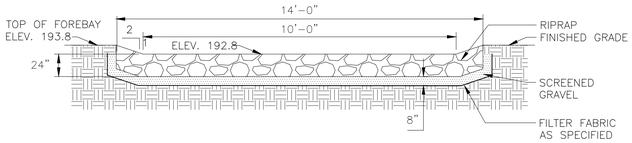
SCALE: NTS



HEADWALL PLAN VIEW

DETAIL F

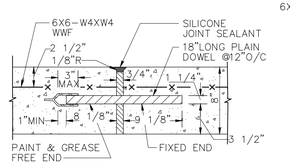
SCALE: NTS



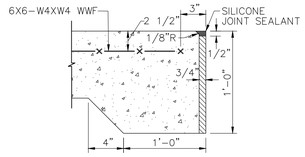
RIPRAP SPILLWAY

DETAIL B

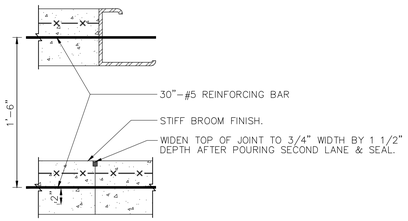
NTS



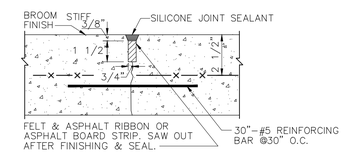
TRANSVERSE EXPANSION JOINT (TEJ)
LONGITUDINAL EXPANSION JOINT (LEJ)



THICKENED EDGE
EXPANSION JOINT (TEEJ)
(EDGE CONDITION SIMILAR AT EDGE OF SLAB)



LONGITUDINAL CONSTRUCTION JOINT (LCJ)

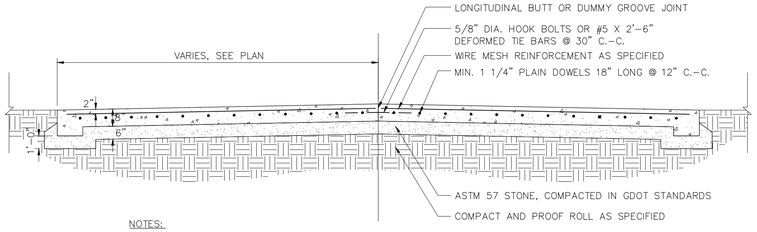


TRANSVERSE DUMMY JOINT (TDJ)

8-IN CONCRETE PAVEMENT JOINTS

DETAIL G

SCALE: NTS



NOTES:

1. DOWELS SHALL BE USED AT ALL JOINTS.
2. WIRE MESH SHALL BE 14'x14' AS SPECIFIED.
3. CONTROL JOINTS SHALL BE LOCATED EVERY 15-FT TYP.
4. EXPANSION JOINTS SHALL BE LOCATED EVERY 90-FT TYP.
5. SEE GRADING AND DRAINAGE PLAN FOR SLOPE OF PAVEMENT.
6. CONCRETE PAVEMENT SHALL CONFORM TO GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT) STANDARDS.

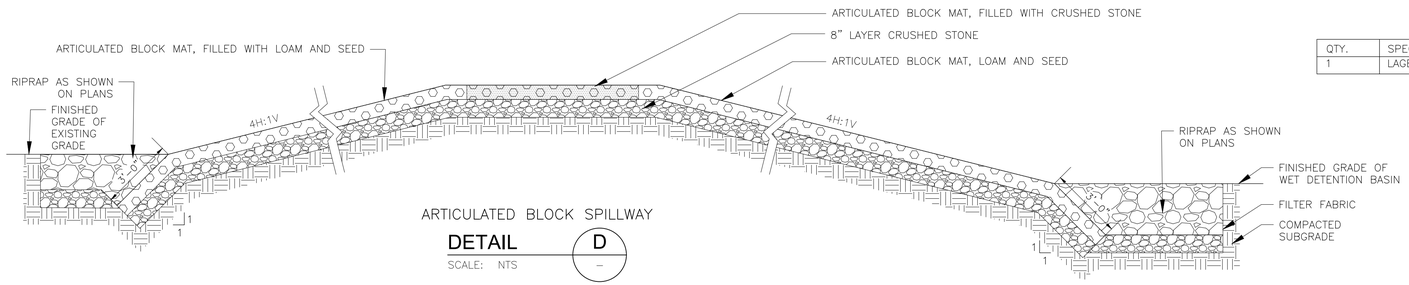
8" THICK CONCRETE PAVEMENT WITH WIRE MESH REINFORCEMENT

DETAIL C

SCALE: NTS

ARTICULATED CONCRETE BLOCK MAT NOTES

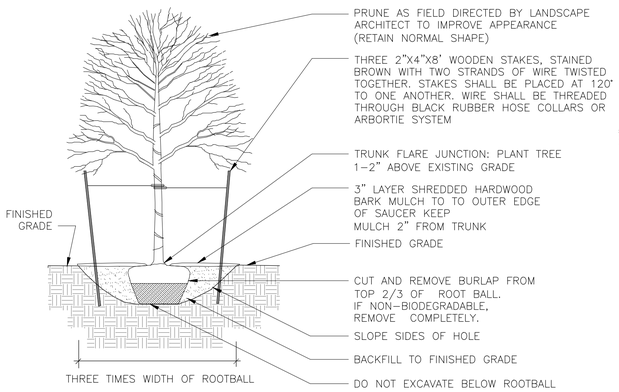
1. SUBMIT MANUFACTURER'S PERFORMANCE RESULTS AND CALCULATIONS OF THE ARTICULATED CONCRETE BLOCK MATS.
2. FURNISH MANUFACTURER'S CERTIFICATES OF COMPLIANCE FOR ARTICULATED CONCRETE BLOCK MATS, REVETMENT CABLE, FITTINGS AND CONNECTORS.
3. FURNISH ALL MANUFACTURER'S SPECIFICATIONS, LITERATURE, SHOP DRAWINGS FOR FABRICATION OF THE MATS, AND ANY RECOMMENDATIONS.
4. FURNISH SHOP DRAWINGS WITH COMPLETE LAYOUT PLAN DETAILING THE INDIVIDUAL MAT SIZES, ANCHOR PLACEMENT LOCATIONS, AND CRITICAL DETAILS.
5. ARTICULATED CONCRETE BLOCK MATS: PREMANUFACTURED OF INDIVIDUAL CONCRETE BLOCKS BOUND INTO MATS BY THE USE OF CABLES.
6. ARTICULATED CONCRETE BLOCK MATS: CONTECH ARMORFLEX CLASS 45 OR APPROVED EQUAL.
7. MATS: CONSTRUCTED OF CLOSED CELL BLOCKS WITH SUFFICIENT WALL THICKNESS TO RESIST BREAKAGE DURING SHIPPING AND INSTALLATION. NOT TO EXCEED 8 FEET IN WIDTH WIHT A LENGTH THAT WILL VARY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. HAVE A MAXIMUM OF 10% OPEN AREA.
8. INDIVIDUAL BLOCKS IN THE CELLULAR MATS: STAGGERED AND INTERLOCKED FOR ENHANCED STABILITY.
9. PARALLEL STRANDS OF CABLE: EXTEND THROUGH THE DUCTS IN EACH BLOCK IN A MANNER WHICH PROVIDES FOR LONGITUDINAL BINDING OF THE BLOCKS WITHIN THE MATS. EACH ROW OF BLOCKS: LATERALLY OFFSET BY ONE-HALF BLOCK WIDTH FROM THE ADJACENT ROW SO THAT ANY GIVEN BLOCK IS CABLED TO FOUR OTHER BLOCKS.
10. CONCRETE BLOCKS AND REVETMENT CABLES AND FITTINGS: AS RECOMMENDED BY MANUFACTURER OF ARTICULATED CONCRETE BLOCK MATS.
11. INSTALL PER RECOMMENDATIONS OF MANUFACTURER OF ARTICULATED CONCDRETE BLOCK MATS.



ARTICULATED BLOCK SPILLWAY

DETAIL D

SCALE: NTS



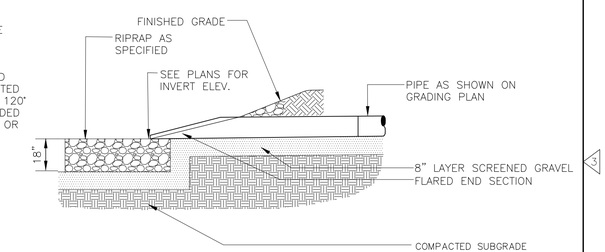
TREE LIST

QTY.	SPECIES	COMMON	SIZE	NOTES
1	LAGERSTROEMIA INDICA	CRAPE MYRTLE	#3 CONT.	MULTI-STEMMED

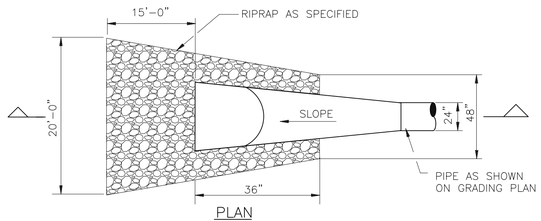
DECIDUOUS TREE PLANTING

DETAIL H

SCALE: NTS



SECTION



PLAN

FLARED END SECTION

DETAIL I

SCALE: NTS

GEORGIA REGISTERED No. PEOLI65 PROFESSIONAL ENGINEER JOANNIS M. POLEMATDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSIAS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL DETAILS V

PROJECT NO. 20790-289282
FILE NAME: CD05NFDT.DWG

SHEET NO.
CD-5

ISSUED FOR BID

XREFs: [CDM5_2436] Images: []
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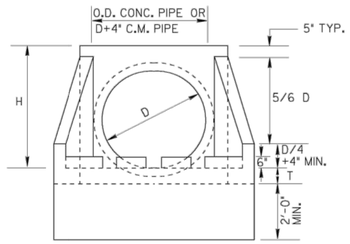
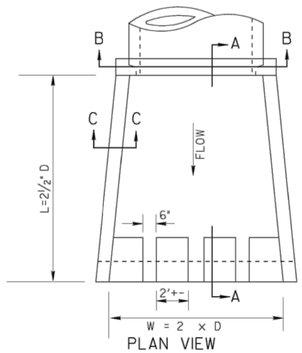
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET HEADWALL

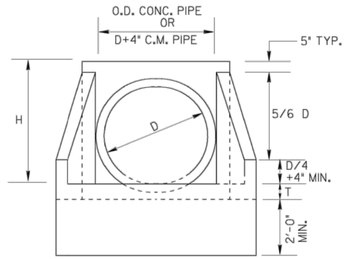


FRONT ELEVATION

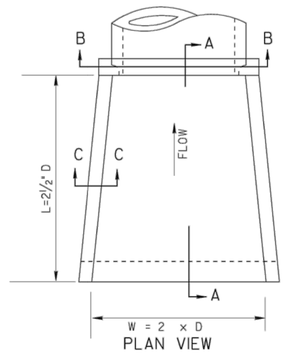


PLAN VIEW

INLET HEADWALL

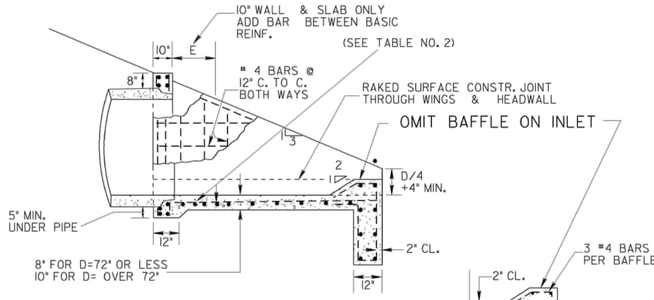


FRONT ELEVATION

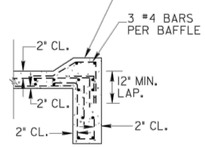


PLAN VIEW

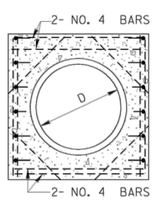
D = INSIDE DIAMETER OF PIPE



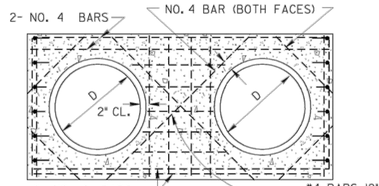
SECTION A-A



10" SLAB



SECTION B-B
(SINGLE PIPE LINE)



SECTION B-B
(MULTIPLE PIPE LINE)

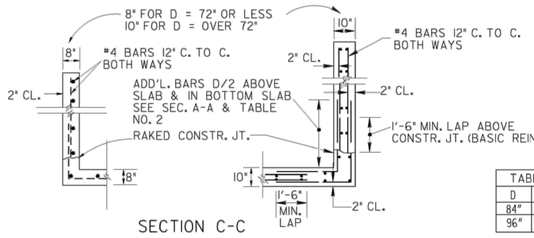
TABLE NO. 1 - QUANTITIES FOR HEADWALLS											
	CU. YDS. CONCRETE (PAY QUANTITIES) *						LBS. STEEL (GIVEN FOR INFORMATION ONLY)				
	FOR SINGLE LINE			ADD FOR ADD'L LINE			FOR SINGLE LINE			ADD FOR EACH ADD'L LINE	
D	INLET	OUTLET		INLET	OUTLET		INLET	OUTLET		INLET	OUTLET
15"	0.87	0.93		0.60	0.66		102	113		73	83
18"	1.10	1.16		0.85	0.93		106	117		93	104
24"	1.61	1.69		1.29	1.37		127	138		124	134
30"	2.21	2.32		1.83	1.96		170	180		154	164
36"	2.92	3.05		2.49	2.63		238	254		196	212
42"	3.73	3.87		3.00	3.17		290	306		231	247
48"	4.62	4.80		3.58	3.74		335	351		265	281
54"	5.63	5.83		4.17	4.38		407	428		319	340
60"	6.72	6.95		4.82	5.01		456	477		360	391
72"	9.22	9.48		6.24	6.46		623	649		475	494
84"	14.84	15.19		9.05	9.29		1517	1539		1017	1044
96"	18.88	19.27		11.13	11.41		2118	2150		1323	1350

*NOTE:
QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS 'A' CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

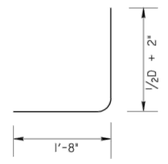
H = D + 10" MIN. FOR C.M. PIPE
H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE
(13/12 D + 9" TYP.)

T = 8" FOR D = 72" OR LESS
T = 10" FOR D = OVER 72"



SECTION C-C

TABLE NO. 2		
D	ADD'L.BAR	E
84"	#4	5'
96"	#4	8'



ADDITIONAL BAR DETAIL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)

NO SCALE — REV. & REDR. OCT., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) James A. Kennedy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Todd L. Edwards
CHIEF ENGINEER

NUMBER 1125

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER CHARLES M. POLEMATIDIS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSIAS
DRAWN BY: P. POHEKAR
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

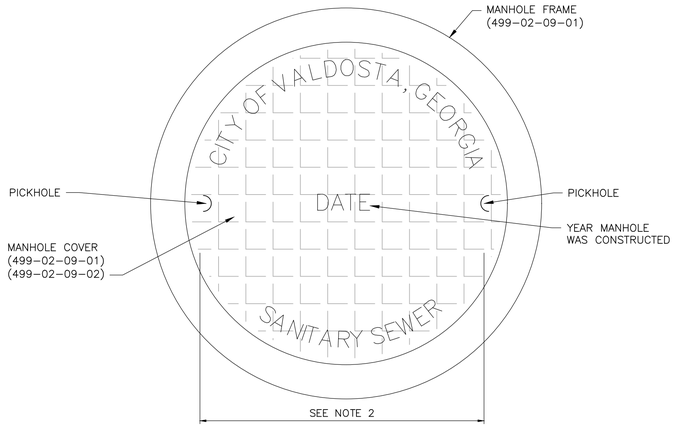
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL DETAILS VI

PROJECT NO. 20790-289282
FILE NAME: CD06NFDT.DWG

SHEET NO.
CD-6

ISSUED FOR BID

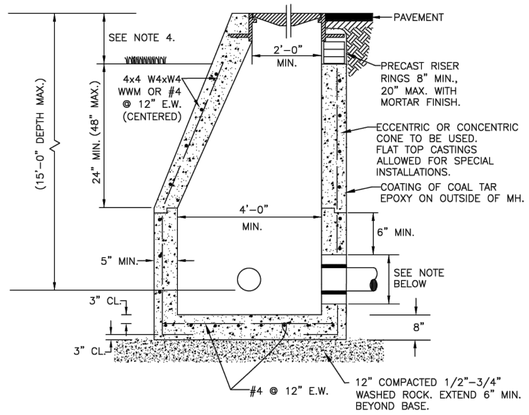


NOTE:

1. MANHOLE COVER SHALL BE LETTERED WITH THE WORDS "CITY OF VALDOSTA, GEORGIA" ACROSS THE TOP, "SANITARY SEWER" ACROSS THE BOTTOM AND THE YEAR OF THE MANUFACTURER IN THE CENTER.
2. UNLESS OTHERWISE SPECIFIED MANHOLE COVERS SHALL BE 24" DIAMETER, AND DOUBLE COVERS DEPENDING ON DEPTH. 32" DIAMETER.

SANITARY SEWER MANHOLE COVER

DETAIL A
NTS

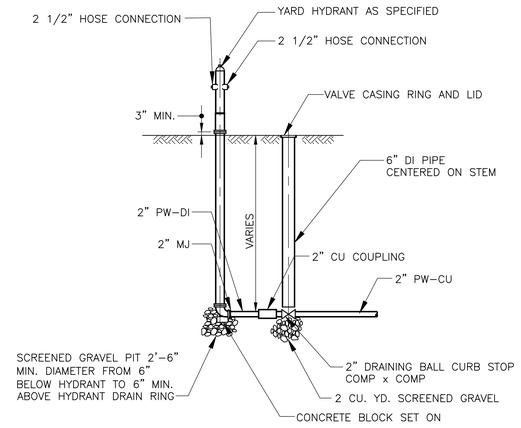


NOTE:

1. ALL PIPE OPENINGS SHALL BE INSTALLED WITH "HARCO" PVC MANHOLE ADAPTERS OR APPROVED EQUAL. FOR PVC & DUCTILE IRON PIPE PENETRATIONS, ADAPTERS SHALL BE FIELD SEALED WITH NON-SHRINK WATERPROOF GROUT.
2. MIN. HOLE DIA. EQUALS OUTSIDE WALL OF PVC PIPE ADAPTER PLUS 4".
3. GRAVITY SEWER DEPTHS SHALL NOT EXCEED 15' EXCEPT BY SPECIFIC APPROVAL OF PUBLIC WORKS & UTILITIES DEPARTMENT. PIPE FOR SUCH INSTALLATION SHALL BE CLASS 50 DIP.
4. ALL MANHOLES IN GRASSED & UNPAVED AREAS SHALL BE INSTALLED 24" ABOVE THE EXISTING GRADE UNLESS OTHERWISE SHOWN ON PLANS.

GRAVITY MANHOLE SEWER

DETAIL B
NTS



YARD HYDRANT

DETAIL C
SCALE: NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: S. ZEILER
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: I. POLEMATIDIS
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CIVIL DETAILS SHEET VII

PROJECT NO. 20790-289282
FILE NAME: CD07NFDT.DWG

SHEET NO.
CD-7

GEORGIA REGISTERED No. PE044163 PROFESSIONAL ENGINEER IOANNIS M. POLEMATIDIS

ISSUED FOR BID

GEORGIA SOIL AND WATER CONSERVATION COMMISSION (GSWCC) CHECKLIST

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS GAR100001

SWCD: REGION V – DAWSON, GA

Project Name: VALDOSTA WTP NO. 2 AND WELLS **Address:** 3260 MADISON HWY, VALDOSTA, GA 31601
Local Issuing Authority: CITY OF VALDOSTA **Date on Plans:** JULY 2025
Name & Email of person filling out checklist: CHARLES ROBINSON, PE (ROBINSONCE@CDMSMITH.COM)

Plan Page #	Included Y/N		
			TO BE SHOWN ON ES&PC PLAN
1	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. **Permit IV.D.1. pg 27**
ALL	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.
	N/A	3	Limits of disturbance shall be less than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed. **Permit IV.D.3. pg 28**
2	Y	4	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
2	Y	5	Provide the name, address, email address, and phone number of Primary Permittee.
2	Y	6	Note total and disturbed acreages of the project or phase under construction.
2	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
ALL	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
2	Y	9	Descriptions of the nature of construction activity and existing site conditions.
2	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
2	Y	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
2	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 20** of the permit.
2	Y	13	Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 20** of the permit. *
2	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect **and certify** the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
2	Y	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
2	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
2	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
2	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
2	Y	19	Clearly note statement that "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."
2	Y	20	Clearly note statement that "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."
2	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
	N/A	22	Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with **Part III.C.** of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
	N/A	23	If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
2	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *
3	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
2	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
3	Y	27	Description of practices to provide cover for building materials and building products on site. *
3	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges. *
2	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).
3	Y	30	Provide complete requirements of Inspections and record keeping by the Primary Permittee. *
3	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
3	Y	32	Provide complete details for Retention of Records as per **Part IV.F.** of the permit. *
3	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location. *
2	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
4–6	Y	35	Delineate all sampling locations on **all phases** of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *
2	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *
4–6	Y	37	Graphic scale and North arrow.
4–6	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
	N/A	39	Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
	N/A	40	Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2, 5 or 10

Plan Page #	Included Y/N		
4–6	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
4–6	Y	42	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.
4–6	Y	43	Delineation and acreage of contributing drainage basins on the project site.
H&H	Y	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
H&H	Y	45	Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. **For solar farm projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.**
8	Y	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.
4–6	Y	47	Soil series for the project site and their delineation.
4–6	Y	48	The limits of disturbance for each phase of construction.
2	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
4–6	Y	50	Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.
7–10	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
4–6	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

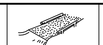
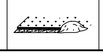
* **If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.**

Effective January 1, 2025

EROSION CONTROL LEGEND

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Sd1	SEDIMENT BARRIER			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 silt fence.
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.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

EROSION AND SEDIMENT CONTROL NOTES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION, SEDIMENTATION AND POLLUTION CONTROL (ES&PC) MEASURES AS SHOWN ON THE ES&PC PLAN SHEETS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL ADJUST THE ES&PC MEASURES SHOWN ON THE ES&PC PLANS AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION, SEDIMENTATION AND POLLUTION CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS AND AS REQUIRED BY THE REGULATORY AGENCIES.

1. SEDIMENT BASINS AND TRAPS, PERIMETER DITCHES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP BEFORE ANY LAND–DISTURBING TAKES PLACE TO MEET THE ES&PC REQUIREMENTS IMPOSED ON THE PROJECT.
2. ALL ES&PC MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. DURING CONSTRUCTION OF THE PROJECT SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTIONS AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
4. A GENERAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY APPLIES TO THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH ALL PERMIT REQUIREMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN THE SITE IN COMPLIANCE WITH THE PERMIT AT ALL TIMES DURING CONSTRUCTION.
5. ES&PC MEASURES SHALL BE INSPECTED FOR INTEGRITY IN ACCORDANCE WITH THE GENERAL NPDES PERMIT REQUIREMENTS. ANY DAMAGED DEVICES SHALL BE REPAIRED IMMEDIATELY.
6. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
7. WHENEVER WATER SEEPS FROM A SLOPE FACE ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
8. SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH, OR CHANNEL. ALL STORM SEWER INLETS THAT ARE EXPOSED DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT–LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. PROVIDE TWO ROWS OF TYPE C SILT FENCE (Sd1–S) SPACED A MINIMUM OF 36 INCHES APART ADJACENT TO ALL WETLANDS AND STATE WATERS.
10. BEFORE TEMPORARY OR NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
11. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY, STREET, RIGHT OF WAY OR STORM WATER COLLECTION FACILITY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING, AND MODIFYING THE SWPPP FOR CONSTRUCTION ACTIVITIES TO MEET CHANGING PROJECT SITE CONDITIONS. THE CONTRACTOR SHALL COORDINATE ALL NPDES PERMIT REVISIONS WHICH MAY BE REQUIRED DUE TO CHANGING SITE CONDITIONS WITH THE PRIMARY PERMITTEE.
13. WHEN ALL DISTURBED SOILS HAVE BEEN STABILIZED AND TEMPORARY ES&PC MEASURES HAVE BEEN REMOVED, THIS CONSTITUTES THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES. AT THIS TIME THE CONTRACTOR SHALL COORDINATE WITH THE PRIMARY PERMITTEE TO COMPLETE AND FILE A NOTICE OF TERMINATION (NOT) TO APPROPRIATE PERMITTING AGENCIES.
14. TEMPORARY AND/OR PERMANENT STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. HOWEVER, WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
15. MULCH SHALL CONSIST OF CRIMPED DRY STRAW OR HAY AT A RATE OF 2.0 TONS/ACRE, OR OTHER SUITABLE METHODS.
16. TEMPORARY AND PERMANENT SEEDING: THE SEEDED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY SEEDING SHALL CONSIST OF A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. PERMANENT SEEDING SHALL PROVIDE BOTH LONG–TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION.
17. REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 70 PERCENT GOOD GRASS COVER, THE AREA SHALL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
18. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO CONTROL EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
19. SLOPES STEEPER THAN 3:1 SHALL BE SODDED WITH STAKED SOD.
20. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
21. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES AS NECESSARY.

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: K. OLSEN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES I

PROJECT NO. 20790–289282
FILE NAME: CE01NFDT.DWG

SHEET NO.
CE-1

ISSUED FOR BID

XREFs: [CDMS_2436] Images: 0
Last saved by: ROBINSONCE Time: 7/14/2025 1:05:28 PM
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EROSION, SEDIMENTATION AND POLLUTION CONTROL

ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT SHALL COMPLY WITH THE GEORGIA EROSION AND SEDIMENTATION ACT OF 1975, NPDES GENERAL PERMIT NO. GAR100001, AND THE LATEST EDITION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA ("GREEN BOOK"). EROSION, SEDIMENTATION AND POLLUTION CONTROL (ES&PC) PLAN CHECKLIST NUMBERS ARE PROVIDED IN PARENTHESIS FOR REFERENCE. REFER TO SHEET CE-1 FOR CHECKLIST.

24-HOUR LOCAL ES&PC CONTACT (4)

NAME:
PHONE NUMBER:
E-MAIL ADDRESS:

NORMAL BUSINESS HOURS
WEEKDAYS:
SATURDAY:
SUNDAY:

(INFORMATION ABOVE TO BE COMPLETED BY CONTRACTOR UPON AWARD OF PROJECT)

PRIMARY PERMITTEE (5)

NAME:	BENJAMIN O'DOWD
ADDRESS:	300 N. LEE STREET, VALDOSTA, GA 31601
PHONE NUMBER:	229-259-3530
E-MAIL ADDRESS:	BODOWD@VALDOSTACITY.COM

NATURE OF CONSTRUCTION ACTIVITY (6, 9, 26, 28)

TOTAL SITE AREA - 90.58 ACRES
TOTAL DISTURBED AREA - 12.4 ACRES
LAND DISTRICT NO. - 11
LAND LOT NO. - 72

THE EXISTING SITE IS A VACANT GRASSED FIELD WHICH WILL BE IMPROVED BY CONSTRUCTING A NEW WATER TREATMENT PLANT AND ASSOCIATED SUPPORT FACILITIES INCLUDING TWO PRODUCTION WELLS, AN ACCESS DRIVEWAY, AND A STORMWATER MANAGEMENT BASIN.

MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED INCLUDE A WET DETENTION POND (STORMWATER MANAGEMENT BASIN) AND GRASSED CHANNELS. THESE FEATURES HAVE BEEN DESIGNED TO MEET THE WATER QUALITY REQUIREMENTS OF THE GEORGIA STORMWATER MANAGEMENT MANUAL.

A SEPARATE HYDROLOGIC AND HYDRAULICS REPORT INCLUDES CALCULATIONS CONCERNING STORMWATER CONTROLS SHOWN ON THE PLANS INCLUDING HYDRAULIC GRADE LINE, OUTFALL ENERGY DISSIPATION, STABLE CHANNEL DESIGN, AND STORMWATER MANAGEMENT BASIN SIZING.

BEST MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE POLLUTANTS IN STORM WATER DISCHARGES DURING CONSTRUCTION ARE DEPICTED ON THE INITIAL (SHEET CE-4), INTERMEDIATE (SHEET CE-5), AND FINAL (SHEET CE-6) PHASE ES&PC PLAN SHEETS. POLLUTION PREVENTION PRACTICES THAT WILL BE IMPLEMENTED DURING CONSTRUCTION ARE DESCRIBED ON SHEET CE-3, IMPLEMENTED TOGETHER, THESE PRACTICES WILL PROVIDE AN EFFECTIVE MEANS OF REDUCING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AT THE SITE.

SOIL MAP - LOWNDES COUNTY, GEORGIA (47)

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Gr	Grady sandy loam, 0 to 2 percent slopes, frequently ponded	C/D	0.0	0.1%
Le	Leefield loamy sand, 0 to 2 percent slopes	A	16.7	28.1%
Mn	Mascotte sand	C/D	10.1	17.1%
Oa	Olustee sand	B/D	0.6	1.1%
Pe	Pelham loamy sand, 0 to 2 percent slopes, frequently flooded	B/D	1.4	2.4%
TfA	Tifton loamy sand, 0 to 2 percent slopes	B	25.8	43.5%
TfB	Tifton loamy sand, 2 to 5 percent slopes	B	4.6	7.8%
Totals for Area of Interest			**59.4**	**100.0%**

CONSTRUCTION EXIT LOCATION (7)

LATITUDE: 30.761079
LONGITUDE: -83.268943

RECEIVING WATERS AND SENSITIVE AREAS (11)

RUNOFF FROM THE SITE DRAINS TO A LARGE WETLAND AREA KNOWN AS FERN POND THAT IS PARTIALLY LOCATED ON THE NORTHWEST PORTION OF THE PROPERTY. THE LIMITS OF THE WETLANDS ARE DELINEATED ON THE PLANS. FERN POND DISCHARGES TO AN UNNAMED TRIBUTARY OF MUD SWAMP THAT IS LOCATED ON THE ADJACENT VALDOSTA REGIONAL AIRPORT PROPERTY. THE RECEIVING STREAM SUPPORTS WARM WATER FISHERIES.

SITE VISIT CERTIFICATION (12)

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

NAME: LORI D. VISONE
GSWCC LEVEL II CERTIFICATION NO.: 16000

CERTIFICATION (13)

"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 GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND - DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORMWATER OUTFALLS THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

NAME: LORI D. VISONE
GSWCC LEVEL II CERTIFICATION NO.: 16000

DESIGN PROFESSIONAL 7-DAY INSPECTION (14)

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.

DATE OF INSPECTION: _____

INSPECTION REVEALED THE FOLLOWING DEFICIENCIES FROM THE ES&PC PLAN:

_____
_____
_____
_____
_____

THESE DEFICIENCIES MUST BE ADDRESSED WITHIN 2 BUSINESS DAYS UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lowndes County, Georgia
Survey Area Data: Version 21, Aug 28, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 8, 2022—Mar 13, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

STREAM BUFFERS (15,16)

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

THE REQUIRED 25-FOOT UNDISTURBED STREAM BUFFERS FOR THIS PROJECT SITE ARE DELINEATED ON THE PLANS. THERE ARE NO PROPOSED BUFFER ENCROACHMENTS OR VARIANCES REQUIRED.

GSWCC CHECKLIST NOTES (17, 18, 19, 20, 21)

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. (17)

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. (18)

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. (19)

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. (20)

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. (21)

CONCRETE WASHDOWN AREA (24)

CONCRETE WASHOUT IS FOR WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES ,HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY AND AFTER HEAVY RAINS TO CHECK FOR LEAKS, IDENTIFY ANY PLASTIC LININGS AND SIDEWALLS THAT HAVE BEEN DAMAGED BY CONSTRUCTION ACTIVITIES, AND DETERMINE WHETHER THEY HAVE BEEN FILLED TO OVER 75 PERCENT CAPACITY. WHEN THE WASHOUT CONTAINER IS FILLED TO OVER 75 PERCENT OF ITS CAPACITY, THE WASHOUT SHALL BE VACUUMED OFF OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. THEN WHEN THE REMAINING CEMENTITIOUS SOLIDS HAVE HARDENED, THEY SHALL BE REMOVED AND RECYCLED. DAMAGES TO THE CONTAINER SHOULD BE REPAIRED PROMPTLY. BEFORE HEAVY RAINS, THE WASHOUT CONTAINER'S LIQUID LEVEL SHALL BE LOWERED OR THE CONTAINER SHALL BE COVERED TO AVOID AN OVERFLOW DURING THE RAIN STORM.

INTENDED SEQUENCE OF MAJOR ACTIVITIES (29)

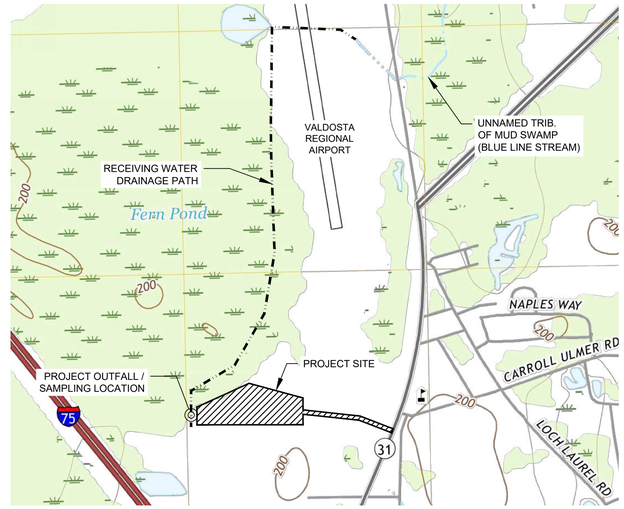
INITIAL BMP AND PERIMETER CONTROL MEASURES	WEEKS	1-2
TEMPORARY SEDIMENT BASIN CONSTRUCTION	WEEKS	3-6
CLEARING AND GRUBBING	WEEKS	7
SITE EXCAVATION AND GRADING	WEEKS	8-44
INTERMEDIATE PHASE BMP IMPLEMENTATION	WEEKS	8-40
TEMPORARY STABILIZATION	WEEKS	2-44
FINAL PHASE BMP IMPLEMENTATION	WEEKS	41-52
FINAL VEGETATIVE STABILIZATION	WEEKS	45-52
MAINTAIN BMP MEASURES	WEEKS	1-52

OUTFALL SAMPLING NTU VALUE (34)

THE ALLOWABLE VALUE FOR OUTFALL SAMPLING AT WATERS SUPPORTING WARM WATER FISHERIES WITH A SURFACE WATER DRAINAGE AREA OF 0-4.99 SQUARE MILES AND A SITE SIZE OF 10.01-25 ACRES IS 50 NTU.

SEDIMENT STORAGE VOLUME (49)

THE TEMPORARY SEDIMENT BASIN IS REQUIRED TO PROVIDE 67 CU YD OF SEDIMENT STORAGE PER ACRE DRAINED. THE TEMPORARY SEDIMENT BASIN IS REQUIRED TO PROVIDE A MINIMUM OF 556 CU YD OF SEDIMENT STORAGE BASED ON A MAXIMUM DRAINAGE AREA OF 8.3 ACRES. THE TEMPORARY SEDIMENT BASIN HAS BEEN DESIGNED TO PROVIDE 1,010 CU YD OF SEDIMENT STORAGE IN THE INITIAL PHASE, 860 CU YD OF SEDIMENT STORAGE IN THE INTERMEDIATE PHASE, AND 5,251 CY OF SEDIMENT STORAGE IN THE FINAL PHASE.



USGS TOPOGRAPHIC VICINITY MAP (10)

DETAIL A
SCALE: 1"=1,000'

ES&PC PLAN SEQUENCE OF CONSTRUCTION (36)

THE FOLLOWING SEQUENCE OF CONSTRUCTION IS RECOMMENDED IN ORDER TO MEET THE REQUIREMENTS OF GENERAL NPDES PERMIT NO. GAR100001 FOR ESTABLISHING AND MAINTAINING EROSION, SEDIMENTATION AND POLLUTION CONTROL MEASURES DURING CONSTRUCTION ACTIVITIES AT THE SITE.

INITIAL PHASE

1. COORDINATE WITH THE PRIMARY PERMITTEE TO ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED. NOTICE OF INTENT (NOI) SHALL BE SUBMITTED TO EPD AT LEAST 14 DAYS PRIOR TO PROJECT COMMENCEMENT.
2. STAKE THE LIMITS OF DISTURBANCE.
3. INSTALL CONSTRUCTION EXIT.
4. INSTALL PERIMETER SILT FENCE. CLEAR ONLY THOSE AREAS THAT ARE NECESSARY TO INSTALL SILT FENCE.
5. PREPARE CONTRACTOR LAYDOWN AND STAGING AREA AND CONCRETE WASHOUT FACILITY.
6. CONSTRUCT 16" FINISHED WATER MAIN AND PRIMARY POWER SERVICE (INCLUDING PAD-MOUNTED TRANSFORMER). ESTABLISH TEMPORARY WATER AND POWER SERVICES AT CONTRACTOR LAYDOWN AND STAGING AREA FOR USE DURING CONSTRUCTION.
7. CONSTRUCT AND STABILIZE THE TEMPORARY SEDIMENT BASIN WITH FILTER RING, FLOATING SURFACE SKIMMER, AND APPROPRIATE OUTFALL STRUCTURE. CLEAR ONLY THOSE AREAS THAT ARE NECESSARY TO INSTALL SEDIMENT BASIN AND OUTFALL STRUCTURE. INSTALL RIPRAP OUTLET PROTECTION CONCURRENTLY WITH PIPE OUTFALL.
8. CONTACT CDM SMITH TO SCHEDULE AN INSPECTION OF THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION OF THE TEMPORARY SEDIMENT BASIN.
9. CLEAR AND GRUB THE REMAINDER OF THE SITE WITHIN THE LIMITS OF DISTURBANCE.
10. COMMENCE CONSTRUCTION OF THE DEGASIFICATION COMPLEX AND HIGH SERVICE PUMP STATION.
11. APPLY TEMPORARY SEEDING, THROUGHOUT CONSTRUCTION, TO DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.

INTERMEDIATE PHASE

12. COMMENCE INSTALLATION OF UNDERGROUND PROCESS PIPING AND THE GROUND STORAGE TANK.
13. COMMENCE GRADING ACTIVITIES TO BRING THE WATER TREATMENT PLANT FACILITY UP TO PROPOSED FINISHED GRADE ELEVATION.
14. COMMENCE INSTALLATION OF UNDERGROUND STORM DRAINAGE AND UTILITY PIPING.
15. INSTALL APPROPRIATE INLET PROTECTION AND OUTLET PROTECTION MEASURES AS EACH DRAINAGE STRUCTURE IS INSTALLED.
16. COMMENCE CONSTRUCTION OF THE OPERATIONS BUILDING.
17. APPLY TEMPORARY SEEDING, THROUGHOUT CONSTRUCTION, TO DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.

FINAL PHASE

18. COMMENCE CONSTRUCTION OF THE PRODUCTION WELLHEAD SITES.
19. COMPLETE GRADING ACTIVITIES TO BRING THE ENTIRE SITE TO FINISHED GRADE ELEVATION. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
20. COMMENCE CONSTRUCTION OF CHEMICAL STORAGE FACILITIES, SIDEWALKS AND OTHER SURFACE IMPROVEMENTS.
21. PREPARE SITE ACCESS ROAD AND LOOP ROAD FOR PAVING.
22. INSTALL ASPHALT AND LIMEROCK PAVEMENT SURFACES THROUGHOUT THE SITE.
23. REMOVE THE FILTER RING AND FLOATING SURFACE SKIMMER AFTER ALL AREAS THAT DRAIN TO THE TEMPORARY SEDIMENT BASIN HAVE BEEN STABILIZED WITH EITHER A HEALTHY STAND OF VEGETATION OR A NON-ERODIBLE IMPERVIOUS SURFACE MATERIAL. CONSTRUCT FOREBAY AND COMPLETE EXCAVATION OF THE STORMWATER MANAGEMENT BASIN (WET POND) TO FINISHED GRADE.
24. REMOVE ALL REMAINING TEMPORARY ES&PC MEASURES AND PERMENENTLY STABILIZE ANY AREAS DISTURBED DURING REMOVAL OF BMPS.
25. COORDINATE WITH THE PRIMARY PERMITTEE TO FILE THE NOTICE OF TERMINATION.

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: K. OLSEN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES II

PROJECT NO. 20790-289282
FILE NAME: CE02NFDT.DWG

SHEET NO.
CE-2

ISSUED FOR BID

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THE FOLLOWING INSPECTION AND SAMPLING REQUIREMENTS ARE PER THE GENERAL NPDES PERMIT NO. GAR100001 ("THE PERMIT"). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING AND DOCUMENTING ALL REQUIRED INSPECTIONS AND SAMPLING AND PROVIDING COPIES OF ALL INSPECTION AND SAMPLING REPORTS TO THE PRIMARY PERMITTEE ON A WEEKLY BASIS. THE PRIMARY PERMITTEE WILL BE RESPONSIBLE FOR MAKING THE MONTHLY REPORT SUBMITTALS TO GEORGIA EPD AS REQUIRED BY THE GENERAL PERMIT.

INSPECTIONS AND RECORD KEEPING (30)

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION (NOT) IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH NPDES GENERAL PERMIT NO. GAR100001 ("THE PERMIT") SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4) OF THE PERMIT. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THE PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THE PERMIT.

SAMPLING REQUIREMENTS (31)

(1). LOCATIONS OF PROPOSED CONSTRUCTION ACTIVITIES, ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, AND SAMPLING LOCATION FOR REPRESENTATIVE STORMWATER OUTFALL(S) ARE SHOWN ON SHEETS CE-2, CE-4, CE-5 AND CE-6.

(2). ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" IN CONFORMANCE WITH THE PERMIT AT THE SITE-SPECIFIC LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED), THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

a. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

b. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

c. LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

d. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION. UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

e. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E OF THE PERMIT.

SAMPLING POINTS (31)

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).

(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.

(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G) PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H) ALL SAMPLING PURSUANT TO THE PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4. OR III.D.5. OF THE PERMIT, WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY (31)

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION;

(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THE PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

SAMPLING REPORTS (31)

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THE PERMIT. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A "NOTICE OF TERMINATION" (NOT) IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

   A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

   B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

   C. THE DATE(S) ANALYSES WERE PERFORMED;

   D. THE TIME(S) ANALYSES WERE INITIATED;

   E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

   F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

   G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;

   H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND

   I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE EPD DISTRICT OFFICE OR DELIVERY RECEIPT EMAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT. THE PERMITTEE'S SITE SHALL REMAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT.

RETENTION OF RECORDS (32)

(1). THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT;

c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT;

d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE PERMIT;

e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THE PERMIT;

f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D. OF THE PERMIT; AND

g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THE PERMIT.

(2.) COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION), OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THE PERMIT AND ALL OTHER RECORDS REQUIRED BY THE PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

FUEL TANKS

ALL ON-SITE FUEL STORAGE DEVICES SHALL BE LOCATED INSIDE A BERMED AREA CAPABLE OF CONTAINING 110% OF THE TANK VOLUME.

TEMPORARY FUELING TANKS SHALL HAVE A GEORGIA EPD APPROVED SECONDARY CONTAINMENT LINER SYSTEM.

FUEL STORAGE ZONES SHALL BE LOCATED AS FAR AWAY FROM DRAINAGE SYSTEMS, WATERWAYS AND STATE WATERS AS IS PRACTICALLY POSSIBLE.

ALL SPILLS SHALL BE REPORTED, CONTAINED AND COLLECTED/ DISPOSED OF IN ACCORDANCE WITH GEORGIA EPD REGULATIONS.

SANITARY WASTE

ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS AS NECESSARY, BY A STATE LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

MAINTENANCE

ALL EROSION, SEDIMENTATION AND POLLUTION CONTROL BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA ("GREEN BOOK").

NON-STORMWATER DISCHARGES

THE FOLLOWING IS A LIST OF SOURCES OF NON-STORMWATER DISCHARGES THAT MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES AT THIS SITE: DISCHARGES FROM FIRE FIGHTING ACTIVITIES; FIRE HYDRANT FLUSHING; POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING; IRRIGATION DRAINAGE; AIR CONDITIONING CONDENSATE; SPRINGS; UNCONTAMINATED GROUND WATER; AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS.

EXCEPT FOR DISCHARGES FROM FIRE FIGHTING ACTIVITIES, ALL NON-STORMWATER DISCHARGES SHALL BE TREATED WITH AN APPROPRIATE BMP PRIOR TO LEAVING THE SITE.

SPILL PREVENTION

CONTRACTOR TO PROVIDE DOCUMENTATION OF SPILL RESPONSE EQUIPMENT AND PROCEDURES TO BE USED. GIVE STEP-BY-STEP INSTRUCTIONS FOR THE RESPONSES TO SPILLS AT THE PARTICULAR SITE. THIS SPILL RESPONSE PLAN CAN BE PRESENTED AS A PROCEDURAL HANDBOOK OR SIGN. EDUCATE EMPLOYEES OF PROCEDURES. SPILL RESPONSE PLAN SHALL CONTAIN AT A MINIMUM:

- LIST OF INDIVIDUALS RESPONSIBLE FOR IMPLEMENTING THE PLAN.
- DEFINE SAFETY MEASURES TO BE TAKEN WITH EACH KIND OF WASTE OR CHEMICAL IN CASE OF SPILL.
- ALL MSDS SHEETS FOR ALL CHEMICALS STORED ON SITE.
- SPECIFY APPROPRIATE AUTHORITIES TO CONTACT SUCH AS POLICE AND FIRE DEPARTMENTS, HOSPITALS, AND PUBLICLY OWNED TREATMENT WORKS FOR ASSISTANCE.

MATERIALS MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIALS MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS AND OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE IMPLEMENTED ON-SITE DURING THE CONSTRUCTION PROJECT:

1. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT ON-SITE TO DO THE JOB.
2. ALL MATERIAL STORED ON-SITE SHALL BE STORED IN A NEAT AND ORDERLY MANNER IN THAT APPROPRIATE CONTAINERS CAN BE STORED UNDER A ROOF OR OTHER STRUCTURE TO AVOID RAINWATER WASHING OFF EXCESS MATERIAL.
3. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURERS LABELS.
4. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF THE PRODUCT SHALL BE USED PRIOR TO DISPOSING OF THE CONTAINER.
6. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
7. THE SITE SUPERINTENDENT SHALL INSPECT THE SITE DAILY TO ENSURE PROPER STORAGE, USE AND DISPOSAL OF MATERIALS.

HAZARDOUS PRODUCTS

THE FOLLOWING PRACTICES SHALL BE FOLLOWED ON-SITE TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

1. ORIGINAL LABELS AND MATERIALS SAFETY DATA SHALL BE MAINTAINED SINCE THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
2. IF EXCESS PRODUCT MUST BE DISPOSED OF, THEN LOCAL, STATE AND FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL SHALL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING ARE THE PRODUCT SPECIFIC PRACTICES THAT SHALL BE FOLLOWED FOR PRODUCTS USED ON-SITE.

PETROLEUM PRODUCTS

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF SPILLAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT SHALL BE CLEARLY LABELED AND STORED IN A CLEARLY IDENTIFIED AREA. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE STORED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED SHALL BE APPLIED IN THE MINIMUM COVERAGE RECOMMENDED BY THE MANUFACTURER. ANY FERTILIZERS THAT ARE TO BE STORED ON-SITE SHALL BE STORED IN A PROTECTED SECURE ENCLOSURE.

PAINTS

ALL CONTAINERS SHALL BE TIGHTLY CLOSED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

PESTICIDES

STORAGE AREAS SHALL BE PROTECTED FROM THE ELEMENTS. WARNING SIGNS SHALL BE PLACED IN AREAS RECENTLY SPRAYED OR TREATED. PERSONS MIXING AND APPLYING THESE CHEMICALS SHALL WEAR SUITABLE PROTECTIVE CLOTHING IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND ALL APPLICABLE LAWS.

BUILDING MATERIALS (27)

NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).

SPILL CONTROL PRACTICES (25)

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DESCRIBED IN THE PORTIONS OF THIS PLAN, THE FOLLOWING ARE THE SPILL CONTROL PRACTICES THAT SHALL BE FOLLOWED FOR SPILL CONTAINMENT AND CLE

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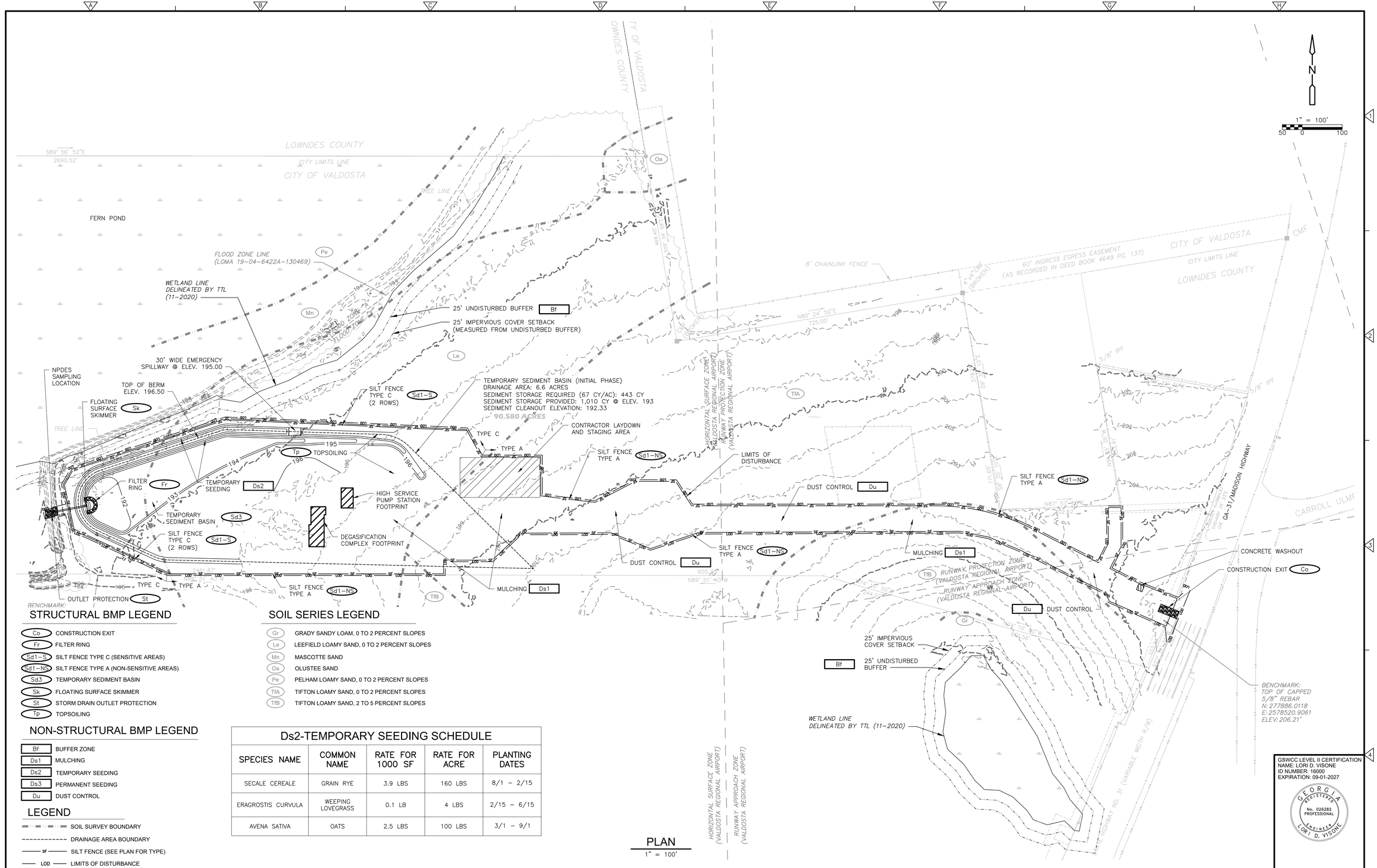

BENCHMARK:

STRUCTURAL BMP LEGEND

- Co — CONSTRUCTION EXIT
- Fr — FILTER RING
- Sd1-S — SILT FENCE TYPE C (SENSITIVE AREAS)
- Sd1-NS — SILT FENCE TYPE A (NON-SENSITIVE AREAS)
- Sd3 — TEMPORARY SEDIMENT BASIN
- Sk — FLOATING SURFACE SKIMMER
- St — STORM DRAIN OUTLET PROTECTION
- Tp — TOPSOILING

SOIL SERIES LEGEND

- Gr — GRADY SANDY LOAM, 0 TO 2 PERCENT SLOPES
- Le — LEEFIELD LOAMY SAND, 0 TO 2 PERCENT SLOPES
- Mn — MASCOTTE SAND
- Oa — OLUSTEE SAND
- Pe — PELHAM LOAMY SAND, 0 TO 2 PERCENT SLOPES
- TfA — TIFTON LOAMY SAND, 0 TO 2 PERCENT SLOPES
- TfB — TIFTON LOAMY SAND, 2 TO 5 PERCENT SLOPES

NON-STRUCTURAL BMP LEGEND

- Bf — BUFFER ZONE
- Ds1 — MULCHING
- Ds2 — TEMPORARY SEEDING
- Ds3 — PERMANENT SEEDING
- Du — DUST CONTROL

LEGEND

- SOIL SURVEY BOUNDARY
- DRAINAGE AREA BOUNDARY
- SF — SILT FENCE (SEE PLAN FOR TYPE)
- LOD — LIMITS OF DISTURBANCE

Ds2-TEMPORARY SEEDING SCHEDULE

SPECIES NAME	COMMON NAME	RATE FOR 1000 SF	RATE FOR ACRE	PLANTING DATES
SECALE CEREALE	GRAIN RYE	3.9 LBS	160 LBS	8/1 – 2/15
ERAGROSTIS CURVULA	WEEPING LOVEGRASS	0.1 LB	4 LBS	2/15 – 6/15
AVENA SATIVA	OATS	2.5 LBS	100 LBS	3/1 – 9/1

PLAN
1" = 100'

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: S. ZEILER
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

INITIAL EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

PROJECT NO. 20790-289282
FILE NAME: CE04STPL.DWG

SHEET NO.
CE-4

ISSUED FOR BID

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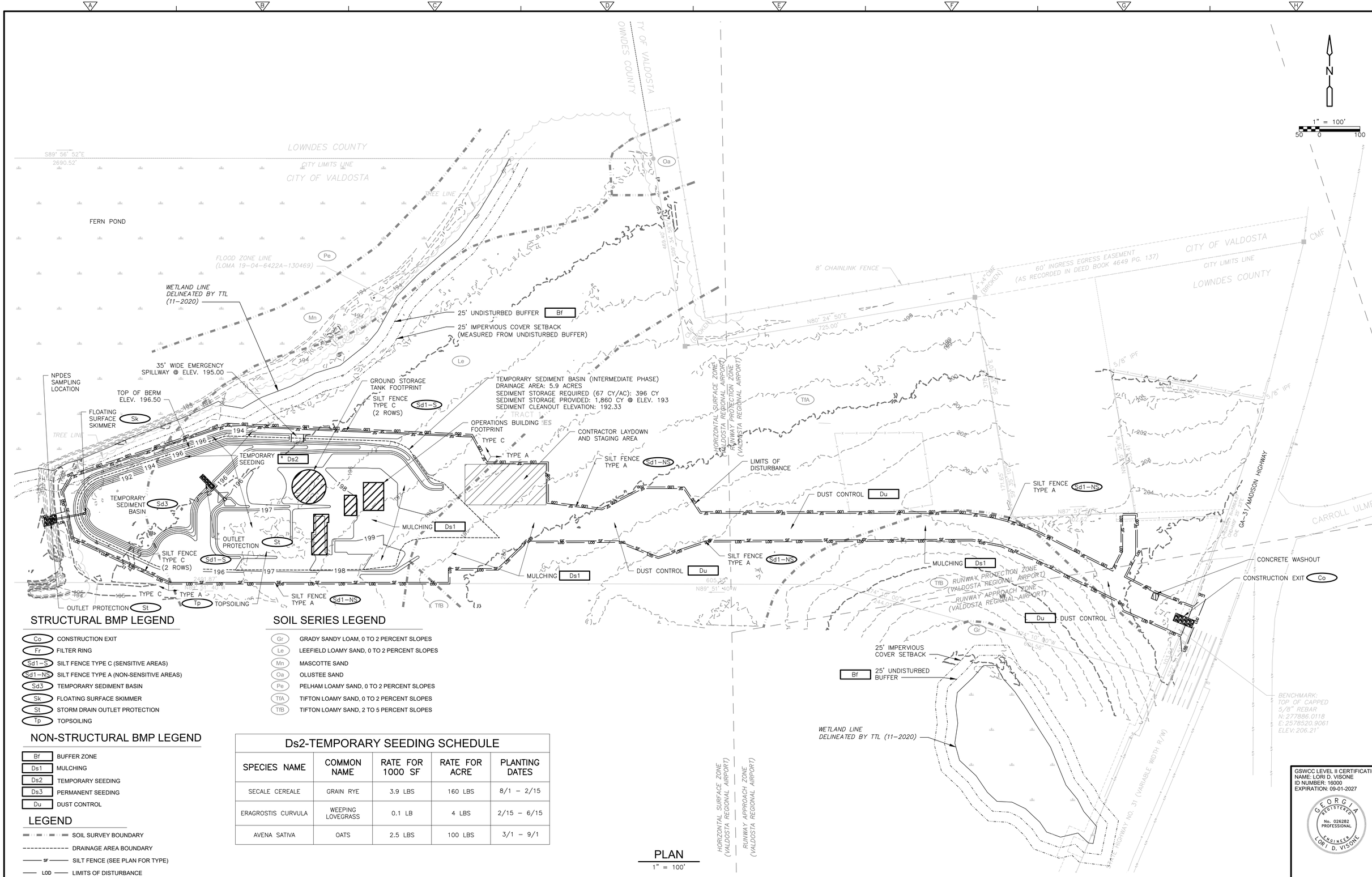

STRUCTURAL BMP LEGEND

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PLAN
1" = 100'

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
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COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

INTERMEDIATE
EROSION, SEDIMENTATION AND
POLLUTION CONTROL PLAN

PROJECT NO. 20790-289282
FILE NAME: CE05STPL.DWG

SHEET NO.
CE-5

ISSUED FOR BID

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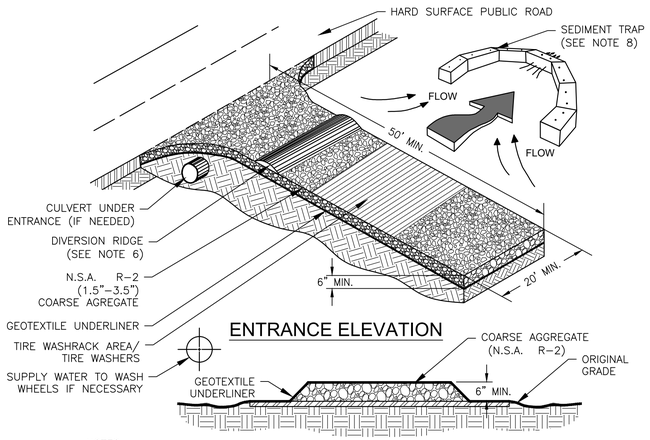
NOTES:

1. SKIMMER SHALL BE REMOVED AND RISER CONVERTED TO PERMANENT OUTLET CONTROL STRUCTURE AFTER ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
2. REMOVE ALL ACCUMULATED SEDIMENT FROM THE PERMANENT STORMWATER MANAGEMENT FACILITY (WET DETENTION BASIN) PRIOR TO COMPLETION OF CONSTRUCTION.

N

1" = 100'
50 0 100

LOWNDES COUNTY
CITY LIMITS LINE
CITY OF VALDOSTA
TREE LINE
S89° 56' 52"E 2690.52'
FERN POND
FLOOD ZONE LINE (LOMA 19-04-6422A-130469)
WETLAND LINE DELINEATED BY TTL (11-2020)
25' UNDISTURBED BUFFER Bf
25' IMPERVIOUS COVER SETBACK (MEASURED FROM UNDISTURBED BUFFER)
8' CHAINLINK FENCE
4"x4" CMF (BROKEN)
60' INGRESS EGRESS EASEMENT (AS RECORDED IN DEED BOOK 4649 PG. 137)
CMF
5/8" IPF
N80° 24' 50"E 725.00'
N87° 57' 41"E 171.65'
N87° 57' 41"E 3.01'
N87° 57' 41"E 549.56'
N87° 57' 41"E 549.56'
N87° 57' 41"E 549.56



ENTRANCE ELEVATION

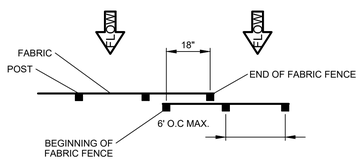
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%..
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CONSTRUCTION EXIT DETAIL Co A – NTS

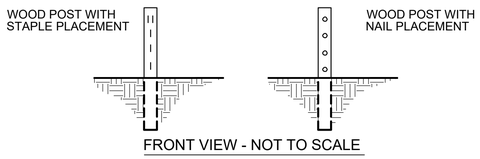
TABLE 6-27.2 POST SIZE			
TYPE	MIN LENGTH	TYPE OF POST	SIZE OF POST
NON-SENSITIVE	4'-0"	OAK OR STEEL	3" DIA OR 2X4 1.5"X1.5" 1.15LB.FT.MIN
SENSITIVE	4'-0"	STEEL	1.15-1.25 LB./FT. MIN 2X2

TABLE 6-27.2 POST SIZE				
	GAUGE	CROWN	LEGS	STAPLES/POST
WIRE STAPLES	17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.
	GAUGE	LENGTH	BUTTON HEADS	NAIL/POST
NAILS	14 MIN.	1"	3/4"	4 MIN.
NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORDS, AND POCKETS.				

OVERLAP AT FABRIC ENDS



TOP VEIW - NOT TO SCALE



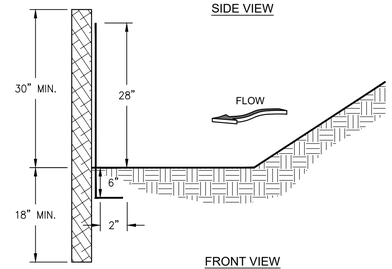
FRONT VIEW - NOT TO SCALE

NOTES:
1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

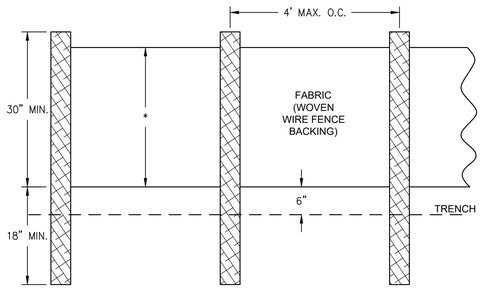
FASTENERS FOR SILT FENCES DETAIL Sd1 B – NTS

SILT FENCE FOR SENSITIVE AREAS

SIDE VIEW



FRONT VIEW

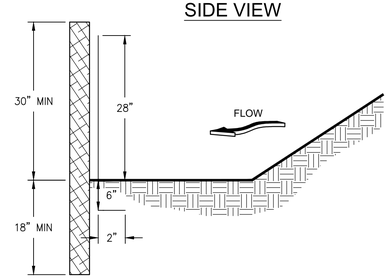


NOTES:
1. USE STEEL POSTS ONLY FOR SENSITIVE AREAS.
2. GDOT "TYPE C" SILT FENCE IS CLASSIFIED AS SENSITVE APPLICATION.
3. PROVIDE 2 ROWS OF OF TYPE C SILT FENCE SPACED A MINIMUM OF 36 INCHES APART ADJACENT TO ALL WETLANDS AND STATE WATERS.

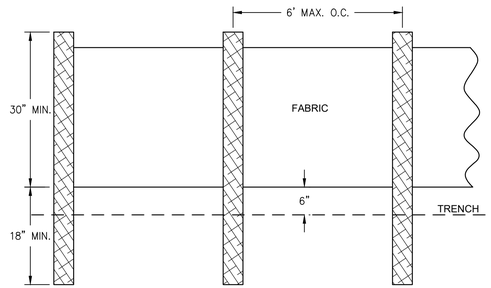
SILT FENCE TYPE C DETAIL Sd1-S D – NTS

SILT FENCE FOR NON-SENSITIVE AREAS

SIDE VIEW



FRONT VIEW



NOTES:
1. STEEL OR WOOD POSTS MAY BE USED FOR NON-SENSITIVE AREAS.
2. GDOT "TYPE A" SILT FENCE IS CLASSIFIED AS NON-SENSITIVE APPLICATION.

SILT FENCE TYPE A DETAIL Sd1-NS C – NTS

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: K. OLSEN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

EROSION, SEDIMENTATION AND POLLUTION CONTROL DETAILS I

PROJECT NO. 20790-289282
FILE NAME: CE07NFDT.DWG

SHEET NO.
CE-7

ISSUED FOR BID

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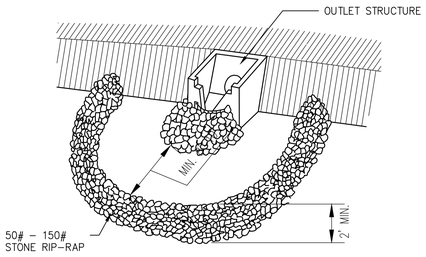
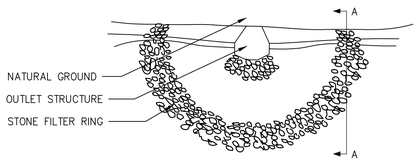
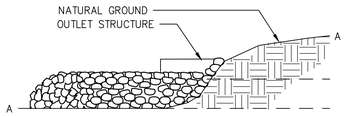
PERSPECTIVE VIEW



PLAN VIEW (NOT TO SCALE)



CROSS SECTION (NOT TO SCALE)

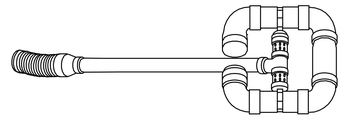


FILTER RING

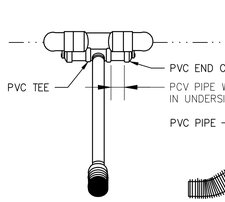
Fr DETAIL A – NTS

NOTE:
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

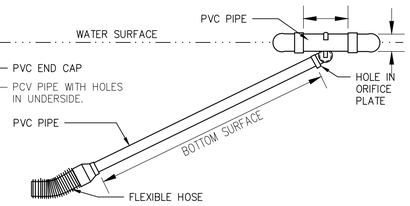
SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW



SKIMMER SIDE SECTION VIEW



TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

When a FLOATING SURFACE SKIMMER is used, show the following information along with each sediment pond, trap or basin being used on the site:

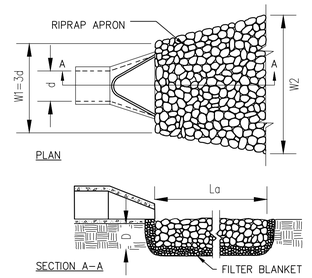
1. Pond, trap or basin size, length* (top and bottom) width* (top and bottom) and depth = SEE SHEETS CE-4, 5 & 6 FOR TEMPORARY SEDIMENT BASIN DIMENSIONS
2. Time to Drain (hrs) = 72 HOURS
3. Skimmer Dimensions (orifice and head size)** 4" SKIMMER W/ 2.9" DIA. ORIFICE
4. Manufacturer's name FAIRCLOTH SKIMMER OR EQUIVALENT

*feet, ** inches

FLOATING SURFACE SKIMMER

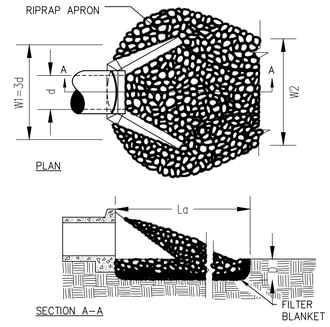
Sk DETAIL B – NTS

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. D = MIN. 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



OUTLET PROTECTION DATA TABLE

PIPE	LOCATION	Q25	V25	d	TW	La	W1	W2	d50	D
P6	EAST OF DETENTION BASIN	10.6 CFS	5.9 FPS	36"	MINIMUM	20' MIN.	9'	23'	9" (GDOT TYPE 3)	20" MIN.
P8	OUTFALL AT FOREBAY	10.5 CFS	5.1 FPS	36"	MAXIMUM	14' MIN.	9'	9'	9" (GDOT TYPE 3)	20" MIN.
P11	DETENTION BASIN OUTFALL	9.9 CFS	7.2 FPS	24"	MINIMUM	13' MIN.	6'	15'	9" (GDOT TYPE 3)	20" MIN.

STORM DRAIN OUTLET PROTECTION

St DETAIL C – NTS

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: K. OLSEN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

EROSION, SEDIMENTATION AND POLLUTION CONTROL DETAILS II

PROJECT NO. 20790-289282
FILE NAME: CE08NFDT.DWG

SHEET NO.
CE-4

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Topsoiling Tp

DEFINITION
Stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after completion of construction activities.

PURPOSE
To provide a suitable soil medium for vegetative growth on areas where other measures will not produce or maintain a desirable stand.

CONDITIONS
This practice is recommended for sites of 2:1 or flatter slopes where:

1. The texture of the exposed subsoil or parent material is not suitable to produce adequate vegetative growth.
2. The soil material is so shallow that the rooting zone is not deep enough to support plants with continuing supplies of moisture and food.
3. The soil to be vegetated contains material toxic to plant growth.

CONSTRUCTION SPECIFICATIONS
Materials
Topsoil should be friable and loamy, free of debris, objectionable weeds and stones and contain no toxic substance that may be harmful to plant growth. A pH range of 5.0-7.5 is acceptable. Soluble salts should not exceed 500 ppm.

Testing
Field exploration should be made to determine whether the quantity and quality of surface soil justifies stripping.

Stripping
Stripping should be confined to the immediate construction area.

A 4 to 6 inch stripping depth is common, but may vary depending on the particular soil.

Topsoil pH
If pH value is less than 6.0, lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoils containing soluble salts greater than 500 parts per million shall not be used.

Stockpiles
The location of topsoil stockpiles should not obstruct natural drainage or cause off-site environmental damage.

Stabilization
Stockpiles shall be contained by sediment barriers to prevent sedimentation on adjacent areas. Stockpiles shall be stabilized in accordance with specifications **Ds1 and Ds2 - Disturbed Area Stabilization (With Mulching) and (With Temporary Grassing),** respectively, or T**ac-Tackifiers.**

Site Preparation
(Where topsoil is to be added)

Topsoiling - When topsoiling, maintain needed erosion control practices such as diversions, grade stabilization structures, berms, dikes, level spreaders, waterways, sediment basins, etc.

Grading - Grades on the areas to be topsoiled that have been previously established shall be maintained.

Liming - Soil tests should be used to determine the pH of the soil. Where the pH of the subsoil is 5.0 or less or composed of heavy clays, agricultural limestone shall be spread at the rate of 100 pounds per 1,000 square feet. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedure.

Bonding - Use one of the following methods to insure bonding of topsoil and subsoil:

1. Tilling. After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or scarifying to a depth of at least 3 inches to permit bonding of the topsoil to the subsoil.
2. Tracking. Passing a bulldozer over the entire surface area of the slope to leave horizontal depressions.

Applying Topsoil
1. Topsoil should be handled only when it is dry enough to work without damaging soil structure.
2. A uniform application of 5 inches (unsettled) is recommended, but may be adjusted at the discretion of the design professional.

Table 6-37.1. Cubic Yards Of Topsoil Required For Application To Various Depths

Depth (Inches)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

TOPSOILING DETAIL Tp NTS A –

Table 6-5.1. Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2/
	Second	6-12-12	1000 lbs./ac.	—
	Maintenance	10-10-10	400 lbs./ac.	30
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac. 1/
	Second	0-10-10	1000 lbs./ac.	—
	Maintenance	0-10-10	400 lbs./ac.	—
3. Ground covers	First	10-10-10	1300 lbs./ac. 3/	—
	Second	10-10-10	1300 lbs./ac. 3/	—
	Maintenance	10-10-10	1100 lbs./ac.	—
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	—
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	—
	Maintenance	0-10-10	700 lbs./ac. 4/	
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/6/
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2/
	Maintenance	10-10-10	400 lbs./ac.	30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./6/
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 3 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to a height of 2 to 4 inches.

FERTILIZER DETAIL Ds3 NTS C –

Dust Control on Disturbed Areas Du

DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

DUST CONTROL DETAIL Du NTS D –

Disturbed Area Stabilization (With Mulching Only) Ds1

DEFINITION
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE
- To reduce runoff and erosion
- To conserve moisture
- To prevent surface compaction or crusting
- To control undesirable vegetation
- To modify soil temperature
- To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE
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 any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to **Ds2 -Disturbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding)**.

SPECIFICATIONS
Mulching Without Seeding
This standard applies to graded 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 anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:

1. 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.
2. 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. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

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 mechanical equipment.
2. 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.
3. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. 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. Tackifers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification **Tac-Tackifers**. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. 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.
3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

MULCHING DETAIL Ds1 NTS B –

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: K. OLSEN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

EROSION, SEDIMENTATION AND POLLUTION CONTROL DETAILS III

PROJECT NO. 20790-289282
FILE NAME: CE09NFDT.DWG
SHEET NO. CE-9

ISSUED FOR BID

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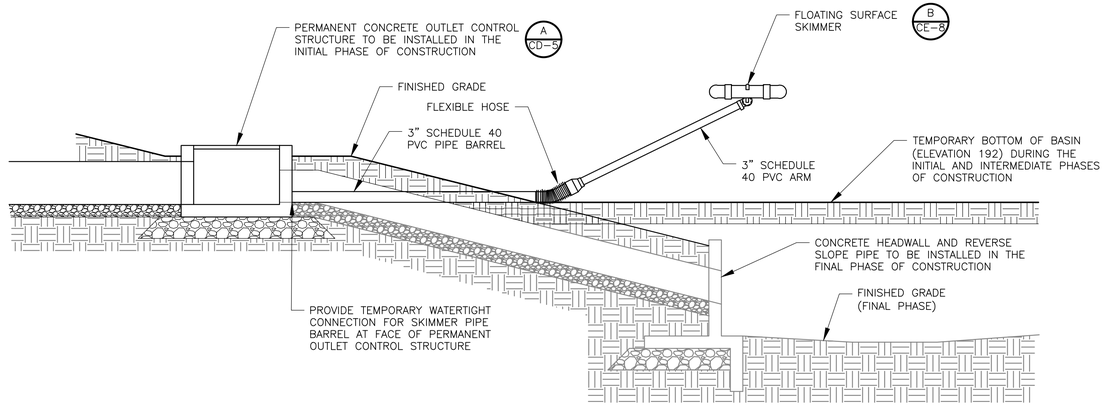

TEMPORARY SEDIMENT BASIN SEDIMENT STORAGE AND ROUTING SUMMARY

PHASE	DRAINAGE AREA	SEDIMENT STORAGE VOL. REQUIRED	SEDIMENT STORAGE VOL. PROVIDED	SEDIMENT STORAGE ELEVATION	25-YEAR WATER SURFACE ELEVATION	100-YEAR WATER SURFACE ELEVATION	FREEBOARD PROVIDED (100-YEAR STORM)
INITIAL	6.6 ACRES	443 CY	1,010 CY	193	194.53	194.76	1.74'
INTERMEDIATE	5.9 ACRES	396 CY	1,860 CY	193	193.80	194.43	2.07'
FINAL	8.3 ACRES	556 CY	5,251 CY	193	194.54	194.77	1.73'

TEMPORARY SEDIMENT BASIN DETAIL
Sd3 NTS
A
–

GSWCC LEVEL II CERTIFICATION
NAME: LORI D. VISONE
ID NUMBER: 16000
EXPIRATION: 09-01-2027

GEORGIA REGISTERED No. 026282 PROFESSIONAL ENGINEER LORI D. VISONE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. ROBINSON
DRAWN BY: K. OLSEN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: I. POLEMATIDIS
APPROVED BY: L. VISONE
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

EROSION, SEDIMENTATION AND POLLUTION CONTROL DETAILS IV

PROJECT NO. 20790-289282
FILE NAME: CE10NFDT.DWG

SHEET NO.
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ABBREVIATIONS

&	AND	GB	GLASS BLOCK	REF	ROOF EXHAUST FAN
<	ANGLE	GRT	GRATING	REINF	REINFORCE (D, ING)
@	AT	GYP	GYPSUM	REQ'D	REQUIRED
AB	ANCHOR BOLT	GWB	GYPSUM WALL BOARD	REV	REVISED
ABV	ABOVE	HARD	HARDENER	RF	ROOF FAN
ACMU	ACOUSTICAL CONCRETE MASONRY UNIT	HD	HEAVY DUTY	RFG	ROOFING
AFF	ABOVE FINISHED FLOOR	HDWD	HARDWOOD	RGH	ROUGH
AFG	ABOVE FINISHED GRADE	HDWR	HARDWARE	RJ	REVEAL/RUSTICATION JOINT
AL, ALUM	ALUMINUM	HGR	HANGER	RL	RAIN LEADER
AMP	ACOUSTICAL METAL PANELS	HGT	HEIGHT	RLG	RAILING
ANOD	ANODIZE(D)	HM	HOLLOW METAL	RM	ROOM
ASSY	ASSEMBLY	HOR	HORIZONTAL	RO	ROUGH OPENING
BBT	BIOBASED TILE	HP	HIGH POINT	RT	RUBBER TILE
BD	BOARD	HR	HANDRAIL	RWL	RAIN WATER LEADER
BEV	BEVEL(ED)	IN	INCH	S	STEEL S-SHAPED DESIGNATION
BLDG	BUILDING	INST	INSTRUMENTATION	SAT	SUSPENDED ACOUSTICAL TILE
BLK	BLOCK	INSUL	ISULATION	SB	SEAMLESS BASE
BLKG	BLOCKING	JC	JANITOR'S CLOSET	SCHD	SCHEDULE
BRG	BEARING	JT	JOINT	SCRN	SCREEN(ED, ING)
BRK	BRICK	JT FLR	JOINT FILLER	SECT	SECTION
BRS	BRASS	L	LINE OF STRUCTURAL ANGLE DESIGNATION	SF	SEAMLESS FLOORING
BRZ	BRONZE	LAB	LABORATORY	SGFT	STRUCTURAL GLAZED FACING TILE
BTM	BOTTOM	LAD	LADDER	SHT	SHEET
C TO C	CENTER TO CENTER	LAM	LAMINATED	SIM	SIMILAR
CAB	CABINET	LAV	LAVATORY	SK	SINK
CEM	CEMENT	LG	LAMINATED GLASS	SL	SLOPE
CF	COMPRESSIBLE FILLER	LINO	LINOLEUM	SLNT	SEALANT
CGFB	CEMENTITIOUS GLASS FIBER BOARD	LKR	LOCKER	SPEC	SPECIFICATION, SPECIFIED
CH	CONCRETE HARDENER	LNTL	LINTEL	SST	STAINLESS STEEL
CHAM	CHAMFER	LP	LOW POINT	STD	STANDARD
CHAN	CHANNEL	LT	LIGHT(S)	STL	STEEL
CIP	CAST IN PLACE	MAS	MASONRY	STOR	STORAGE
CJ	CONTROL JOINT	MATL	MATERIAL	STRU	STRUCTURE(S, URAL)
CL OR	CENTERLINE	MAX	MAXIMUM	STWY	STAIRWAY
CLG	CEILING	MEMB	MEMBRANE	SUPT	SUPERINTENDENT
CLKG	CAULKING	MFR	MANUFACTURER	SUSP	SUSPENDED
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM	T	TREAD(S)
COL	COLUMN	MISC	MISCELLANEOUS	TBM	TRAFFIC BEARING MEMBRANE
COMP	COMPRESSIBLE	MO	MASONRY OPENING	T&G	TONGUE AND GROOVE
CONC	CONCRETE	MR	MOISTURE RESISTANT	TEMP	TEMPERATURE
CONT	CONTINUOUS	MRAT	MOISTURE RESISTANT ACOUSTICAL TILE	TEMP	TEMPERED
CRPT	CARPET, CARPET TILE	MTD	MOUNTED	TEMP	TEMPORARY
CRS	COURSE(S)	MTG	MOUNTING	TER	TERRAZZO
CT	CERAMIC TILE	MTL	METAL	TERB	TERRAZZO BASE
CET	DETAIL	NIC	NOT IN CONTRACT	THK	THICK(NESS)
DF	DRINKING FOUNTAIN	NOM	MONINAL	THR	THRESHOLD
DIA	DIAMETER	NTS	NOT TO SCALE	TKBD	TACKBOARD
DIAG	DIAGONAL	OC	ON CENTER	TOB	TOP OF BRICK
DIM	DIMENSION	OH	OVERHANG	TOC	TOP OF CONCRETE
DISP	DISPENSER	OPNG	OPENING	TOIL	TOILET
DN	DOWN	OPP HD	OPPOSITE HAND	TOM	TOP OF MASONRY
DP	DAMPPROOFING	ORD	OVERFLOW ROOF DRAIN	TOPG	TOPPING
DR	DRAIN	OSB	ORIENTED STRAND BOARD	TOS	TOP OF STEEL
ELEC	ELECTRICAL	OV	OVER	TS	STRUCTURAL TUBING (STEEL UNLESS NOTED)
ELEV	ELEVATION	OVHD	OVERHEAD	TSL	TOP OF SLAB
EQ	EQUAL(LY)	PERIM	PERIMETER	TWF	THROUGH WALL FLASHING
EQPT	EQUIPMENT	PL	PLATE	TYP	TYPICAL
EWC	ELECTRICAL WATER COOLER	PL	PROPERTY LINE	UC	UNDERCUT
EXP	EXPOSED	PLAS	PLASTER	UON	UNLESS OTHERWISE NOTED
EJ	EXPANSION JOINT	PLK	PLANK	UR	URINAL
EXIST, (E)	EXISTING	PLYWD	PLYWOOD	VB	VAPOR BARRIER
FD	FLOOR DRAIN	PM	PRESSED METAL	VCT	VINYL COMPOSITE TILE
FE	FIRE EXTINGUISHER	PR	PAIR	VERT	VERTICAL
FF	FACTORY FINISH	PRD	PROMENADE ROOF DRAIN	VEST	VESTIBULE
FGL	FIBERGLASS	PRCST	PRECAST	VTR	VENT THRU ROOF
FIN	FINISH(ED)	PREFAB	PRE-FABRICATED	W	WITH
FLG	FLASHING	PT	PREASSURE TREATED	W/	WITH
FL	FLOOR(ING)	PRMLD	PREMOLDED	W/A	WHERE APPLICABLE
FLR	FILLER	PSF	POUNDS PER SQUARE FOOT	W/O	WITHOUT
FR	FRAME	PTD	PAINTED	WC	WATER CLOSET
FRP	FIBERGLASS REINFORCED PLASTIC	QT	QUARRY TILE	WD	WOOD
FO	FRAME OPENING	QTB	QUARRY TILE BASE	WDW	WINDOW
FV	FIELD VERIFY	R	RISER(S)	WF	WIDE FLANGE
FXD	FIXED	R+S	BACKER ROD & SEALANT	WPG	WATERPROOFING
GA	GAGE, GAUGE	RB	RUBBER BASE	WT	STEEL TEE-SHAPE DESIGNATION
GALV	GALVANIZED	RD	ROOF DRAIN	WWF	WELDED WIRE FABRIC
GL	GLASS	RECT	RECEPTACLE		

GENERAL NOTES

HEIGHT OF INTERIOR STUD AND CMU PARTITIONS ARE FROM FLOOR TO THE UNDERSIDE OF ROOF DECK UNLESS OTHERWISE NOTED. PROVIDE DEFLECTION HEADS AT TOP OF WALL (TYPICAL).

NOT ALL EQUIPMENT IS SHOWN FOR CLARITY. REFER TO THE APPROPRIATE DISCIPLINE SHEETS FOR SPECIFIC EQUIPMENT LAYOUT AND OTHER REQUIREMENTS

SEE CIVIL SHEETS FOR SIDEWALK, ROAD PAVING AND FINISH GRADE ELEVATIONS.

SEE STRUCTURAL SHEETS FOR SIZE AND LOCATION OF CONCRETE PADS, TRENCHES, VAULTS, SUMPS, ETC

SEE STRUCTURAL SHEETS FOR CONCRETE AND MASONRY REINFORCEMENT

ALL INTERIOR CMU WALLS SHALL BE PROVIDED WITH INSULATION INSERTS (SEE SPEC 04200)

PATCH AND REPAIR ANY MATERIALS OR SURFACES DAMAGED DURING THE CONSTRUCTION PROCESS TO MATCH THE EXISTING ADJACENT SURFACES.

ALL ITEMS TO BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL JOINTS, VOIDS AND PENETRATIONS THROUGH FIRE-RATED WALL SYSTEMS ARE TO BE FILLED/SEALED WITH UL APPROVED FIRESAFING/FIRESTOPPING MATERIALS TO ACHIEVE THE REQUIRED FIRE-RATING (REFER TO CODE DRAWINGS FOR LOCATIONS).

DO NOT SCALE FROM THE DRAWINGS

NOTIFY ARCHITECT IF CONSTRUCTION DOCUMENTS DIFFER FROM ACTUAL FIELD CONDITIONS PRIOR TO FABRICATION OR NEW CONSTRUCTION

THIS DRAWING CONTAINS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS. NOT ALL ITEMS SHOWN HERE APPEAR ON THE CONTRACT DRAWINGS.

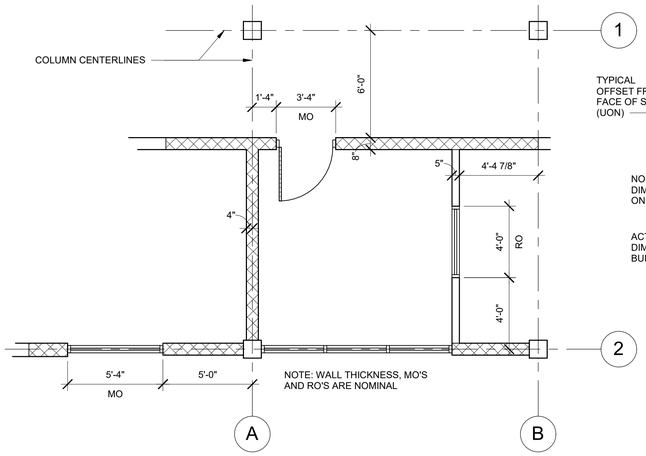
LINE TYPES (UNLESS OTHERWISE NOTED)

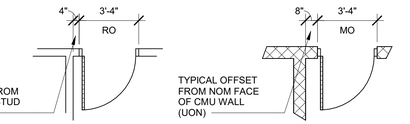
- CONTINUOUS - NEW CONSTRUCTION
- DASHED ON CONSTRUCTION PLAN/SHEETS - HIDDEN ELEMENTS BEYOND, ABOVE OR BELOW

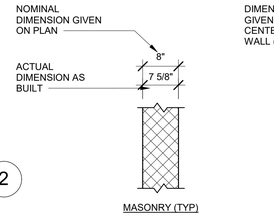
MATERIAL SYMBOLS

- EARTH
- GRAVEL
- BRICK
- CONCRETE MASONRY UNIT (CMU)
- PRECAST CONCRETE
- CAST-IN-PLACE CONCRETE
- WOOD BLOCKING
- WOOD FINISH
- PLYWOOD
- RIGID INSULATION
- BLANKET INSULATION
- STEEL
- ALUMINUM
- STUCCO / GROUT
- CAULK

DIMENSIONING SYSTEM

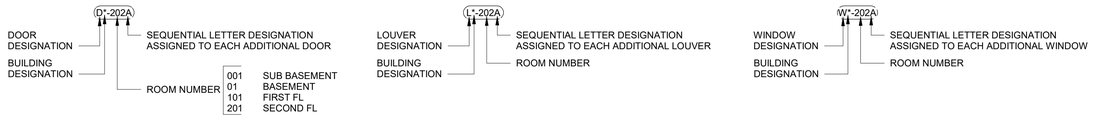




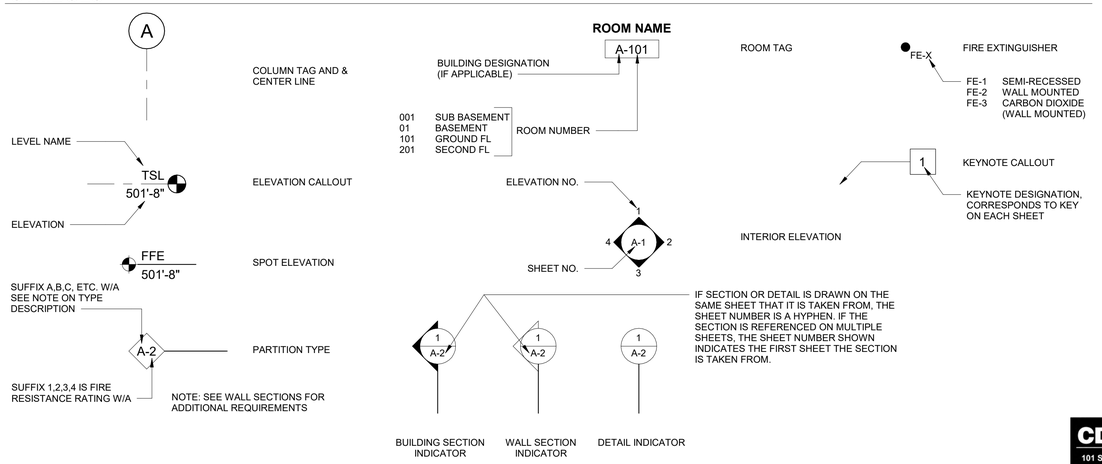


OPENINGS

USUALLY LABELED IN PLAN VIEW; HOWEVER, OPENINGS NOT SHOWN IN PLAN ARE LABELED ON ELEVATIONS



SYMBOLS



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VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ARCHITECTURAL

GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027192
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

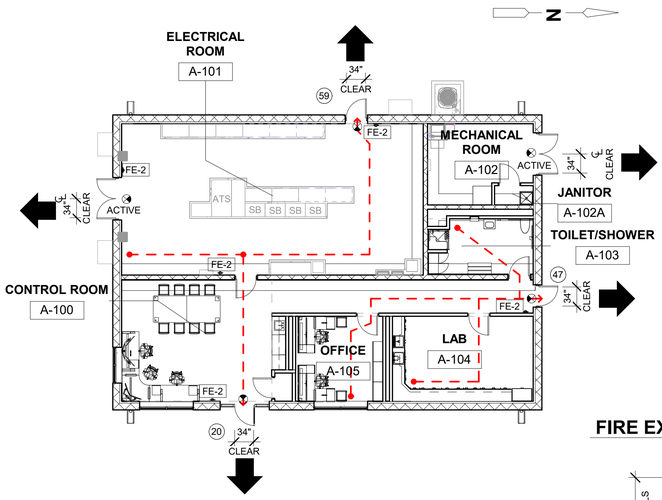
SHEET NO.
A-1

ISSUED FOR BID

Building Code Key Determinations			
Owner:	City of Valdosta, Georgia	**Date:**	April __ 2025
Project Name:	Valdosta WTP No. 2 & Prod. Well	**Location:**	Valdosta, GA
Project No:	289282	**Architect of Record:**	Michael Alford, RA
Building Name:	Operations Building		
Applicable Ordinances, Codes, and Standards			
Abbreviations	**ICC** - International Code Council; **IBC** - International Building Code; **IPC** - International Plumbing Code; **IMC** - International Mechanical Code; **IECC** - International Energy Conservation Code; **IFC** - International Fire Code; **NEC** - National Electrical Code; **GBC** - Georgia Building Code		
Building Code	2018 International Building Code with Georgia Minimum Standard Building Code Amendments (2025)		
Plumbing Code	2018 International Plumbing Code w/ Georgia State Minimum Standards Amendments (2024)		
Mechanical Code	2018 International Mechanical Code w/ Georgia State Minimum Standards Amendments (2024)		
Electrical Code	2023 National Electrical Code		
Energy Code	2015 International Energy Conservation Code with Georgia State Minimum Standards Amendments		
Fire / Life Safety Code	2018 Georgia State Minimum Fire Prevention Code / NFPA / 2018 Life Safety Code		
Accessibility Code	Georgia Accessibility Code / Americans with Disabilities Act (ADA) 2010		
Chapter 3	**Use and Occupancy Classification**		
	Mixed Use (Y/N)	No	
	Section 306.3 - Factory Group F	Low Hazard Industrial, Group F-2	
Chapter 4	**Special Detailed Requirements Based on Use and Occupancy**		
Section 405	Underground Buildings	N/A	
Section 414	Hazardous Materials		
	Section 414.2 Control Areas	*N/A*	
	Section 414.5 Inside Storage, Dispensing and Use	*N/A*	
	Section 414.5.5 Spill Control, Drainage and Containment	*N/A*	
	Section 414.6 Outdoor Storage, Dispensing and Use	Diesel Fuel Oil	
	NFPA 30A Separation Distance	275 - 30,000 gal, min 5 feet from building	Diesel Fuel Oil >15ft from Bldg & Prop.Line
Chapter 5	**General Building Heights and Areas**		
Section 503	Section 503.1.1 Special Industrial Occupancies		N/A
	Section 503.1.2 Buildings on Same Lot		NA
Section 504	Table 504.3 - Allowable Building Height Table 504.4 - Allowable Number of Stories	Allowable Height / Allowable no. of stories	Actual
	Use Group F-2: Type II-B Construction	3 Stories / 55 ft	1 Story / 22 ft
Section 505	Mezzanines and Equipment Platforms		N/A
Section 506	Table 506.2 - Allowable Building Area	23,000 SF / FLOOR	2816 SF
Section 508	Mixed Use and Occupancy		N/A
Section 509	Incedental Use		N/A
Section 510	Special Provision		N/A
Chapter 6	**Types of Construction**		
Section 602	Construction Classification		
	*Paragraph 602.2 Type*s I and II	Type II B	
Table 601	Fire-Resistance Rating Requirements (hours) for Building Elements		
	Building Element	Req'd Rating for Construction Type	Rating Provided
	Primary Structural Frame	N/A	
	Bearing Walls (Exterior)	0 HR	In compliance with required ratings
	Non Bearing Walls and Partitions (Exterior)	See Table 602 requirements below	
	Non Bearing Walls and Partitions (Interior)	0 HR	In compliance with required ratings
	Floor Construction including supporting structure	0 HR	In compliance with required ratings
	Roof Construction including supporting structure	0 HR	In compliance with required ratings
Chapter 7	**Fire and Smoke Protection Features**		
Section 705	Exterior Walls	Paragraph 705.2 Projections of eave overhangs = 24 inches plus 8 inches inches/foot beyond 3 feet with fire separation distance from other buildings of 3 ft or greater (Table 705.2)	In compliance with less than 48" of overhang
Section 705.5 / Table 602	Fire-Resistance Rating Requirements (hours) for Exterior Walls based on Fire Separation Distance (feet)		
	Fire Separation Distance in feet	Req'd Rating for Occupancy	Rating Provided
	30	0 HR	0 HR
Table 705.8	Maximum percentage Area of Exterior Wall Openings based on Fire Separation Distance in feet		
	Unprotected openings in walls of non-sprinklered buildings with fire separation distance > 30	NO LIMIT	In Compliance
Section 714	Penetrations	N/A	Opening Fire Protection Assemblies, Railings and Markings > No Ratings Req'd
Section 715	Joints and Voids	N/A	
Chapter 8	**Interior Finishes**		
Section 803	Wall and Ceiling Finishes		
Table 803.13	Interior Wall and Ceiling Finish Requirements by Occupancy		
	Group F - Interior exit stairways and ramps and exit passageways	Class B required	N/A
	Group F - Corridors and enclosure for exit access stairways and ramps	Class C required	N/A
	Group F - Rooms and enclosed spaces	Class C required	In Compliance
Section 804	Interior Floor Finish		In Compliance with Section 804.1 Exception
Chapter 9	**Fire Protection Systems**		
Section 903	Automatic Sprinkler Systems	Paragraph 903.2, Group F-2	Not Required
Section 906	Portable Fire Extinguishers	Paragraph 906.1 - **Required in use Group F**	5 Provided (at locations shown on plans)
	Paragraph 906.3 Size and distribution		
		Control Room - Class A fire Hazard	2
		Electrical Room - Class C fire hazard	3
Section 907	Fire Alarm and Detection Systems	907.2.4 ***Group F***	Not Required / System Provided
Section 912	Fire Department Connections	Not provided	
Chapter 10	**Means of Egress**		
		Required/Allowed	Proposed
Section 1003	General Means of Egress		
	1003.2 Ceiling Height	7'-6" Ceiling Ht. (Min.)	Office area -10' / Electrical Room- 14.67'
	1003.3 Protruding Objects	6'-8" (50% of Circulation Path)	N/A
	1003.4 Slip Resistant Surface	Required	In Compliance
	1003.5 Elevation Change	Sloped surfaces less than 12"	N/A
	1003.6 Means of Egress Continuity	Continuity not interupted	In Compliance
Section 1004	Occupant Load	Industrial Areas = 100 sq. ft. gross per occupant	
Table 1004.5	Maximum Floor Area Allowances per Occupant		
	Function of Space (Area in SF)	Floor Area per Occupant	Total Occupants
	Industrial area = 100 sq. ft. gross per occupant	Ground Level - 2816 sq. ft / 100 sq. ft. = 28	29*
		*Occupant load is for means of egress calculations.	Actual maximum occupant load = 14 people.
		Required/Allowed	Proposed
Section 1005	Means of Egress Sizing		
	Paragraph 1005.3.1 Stairway width	0.3 inches x occupant load = 0.3 x 29 = ***8.7 in.***	N/A
	Paragraph 1005.3.2 Other egress components = Doors width	0.2 inches x occupant load = 0.2 x ***29 = 5.8in.***	68 inches
Section 1006	Number of Exits	***Table 1006.2.1 Group F***	1
Table 1006.3.1	Number of Exits and Continuity		
	Occupant Load Per Story	Exits Required per Story	Exits Proposed
	1-500	2	4
	501-1,000	3	N/A
	More than 1,000	4	N/A
Section 1007	Exit and Exit Access Doorway Configuration		
	1007.1.1 Two Exits of Exit Access Doorways REQ'D	68'-0"	35'-0"
	1007.1.2 Three or more exits or Exit Access Doorways REQ'D	N/A	
Section 1008	Means of Egress Illumination	Paragraph 1008.2 Illumination level	SEE "E" DWGS
Section 1009	Accessible Means of Egress	See Chapter 11 below	
Section 1010	Doors, Gates and Turnstiles		
	1010.1.1 - Size of Doors	Minimum Width = 32 inches	34 inches
	1010.1.2 - Door Swing	Pivoted or side-hinged swinging type	In compliance
Section 1011	Stairways		N/A
	1011.2 Width	36 inches minimum required	
	1009.5 Headroom	80 inches minimum required	
	1011.7.2 Riser height and tread depth	7 inches max. and 11 inches min.	
	1011.10 Vertical rise	144 inches max. vertical rise for one flight	
Section 1012	Ramps		N/A
Section 1013	Exit Signs	Required throughout	SEE "E" DWGS
Section 1014	Handrails		N/A
Section 1015	Guards		N/A
Section 1016	Exit Access		In compliance
Section 1017	Exit Access Travel Distance	***Table 1017.2 - Group F-2, 300 feet maximum***	59 feet maximum
Section 1018	Aisles	36 INCHES	In compliance
Section 1019	Exit Access Stairways and Ramps		N/A
Section 1020	Corridors		N/A
Section 1023	Interior Exit Stairways and Ramps		N/A
Section 1024	Exit Passageways		N/A
Section 1025	Luminous Egress Path Markings		N/A
Section 1026	Horizontal Exits		N/A
Section 1027	Exterior Exit Stairways and Ramps		N/A
Section 1028	Exit Discharge		N/A
Chapter 11	**Accessibility**		
Section 1101	Designed in accordance with 2010 ADA Standards for Accessible Design	Spaces frequented only by service personnel for maintenance, repair or occasional monitoring of equipment shall not be required to comply	Electrical Room and Mechanical Room - Not Required
Section 1103	Scoping Requirements		
Section 1104	Accessible Route		
Chapter 12	**Interior Environment**		
Section 1202	Ventilation	Paragraph 1202.1 General	In compliance
Section 12034	Temperature Control	Paragraph 1203.1 Equipment and systems	In compliance
Section 1204	Lighting	Paragraph 1204.3 Artificial light	In compliance
Section 1208	Interior Space Dimensions	Paragraph 1208.2 Minimum Ceiling Heights	In compliance
Chapter 13	**Energy Efficiency**		
Chapter 29	**Plumbing Systems**		
Section 2902	Table 2902.1 Minimum Plumbing Facilities	Water Closets - 1 per 100	1 provided
		Lavatories - 1 per 100	1 provided
		Section 2902.2 Separate Facilities, Exception 2	Separate Facilities not required, Actual occupant load less than 15
		Drinking Fountain - Plumbing Code Section 410	Not req'd, Actual Occupant Load < 25
		Other - 1 Service Sink	1 provided

GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES



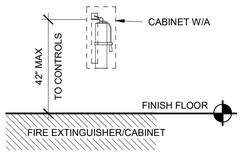
LIFE SAFETY PLAN

3/32" = 1'-0"

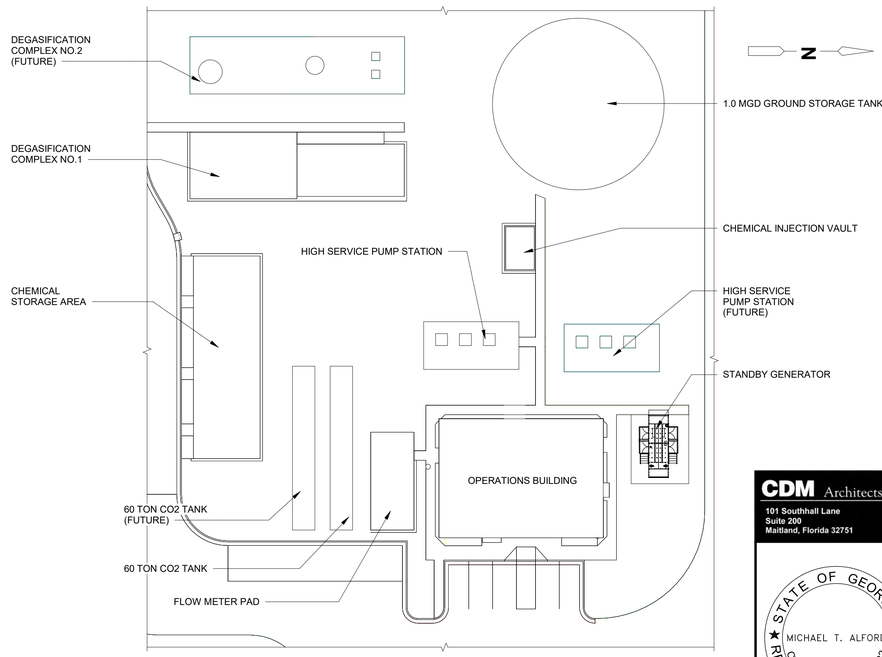
LIFE SAFETY LEGEND

- EXIT DISCHARGE
- AREA OR SPACE EXIT
- EXIT SIGN
- FE — FIRE EXTINGUISHER
- EGRESS PATH
- (X) — TRAVEL DISTANCE (FEET)

FIRE EXTINGUISHER MOUNTING HEIGHT



FIRE EXTINGUISHER SCHEDULE				
TAG	**QTY**	**MODEL**	**MANUFACTURER**	**DESCRIPTION**
FE-2	5	COSMIC 10E UL RATED 4A-80BC	JL INDUSTRIES (ACTIVAR INC)	10 LB DRY CHEMICAL, BRACKET MOUNTED



SITE PLAN

1" = 30'-0"

NOTE: SEE CIVIL DWGS FOR ADDITIONAL SITE INFORMATION

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA ★ MICHAEL T. ALFORD ★ REGISTERED ARCHITECT CERTIFICATE NO. 0 (2)792

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. TRIANA
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: C. SOLLOG
APPROVED BY: M. ALFORD
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
BUILDING CODE KEY DETERMINATIONS
AND LIFE SAFETY PLAN

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-2

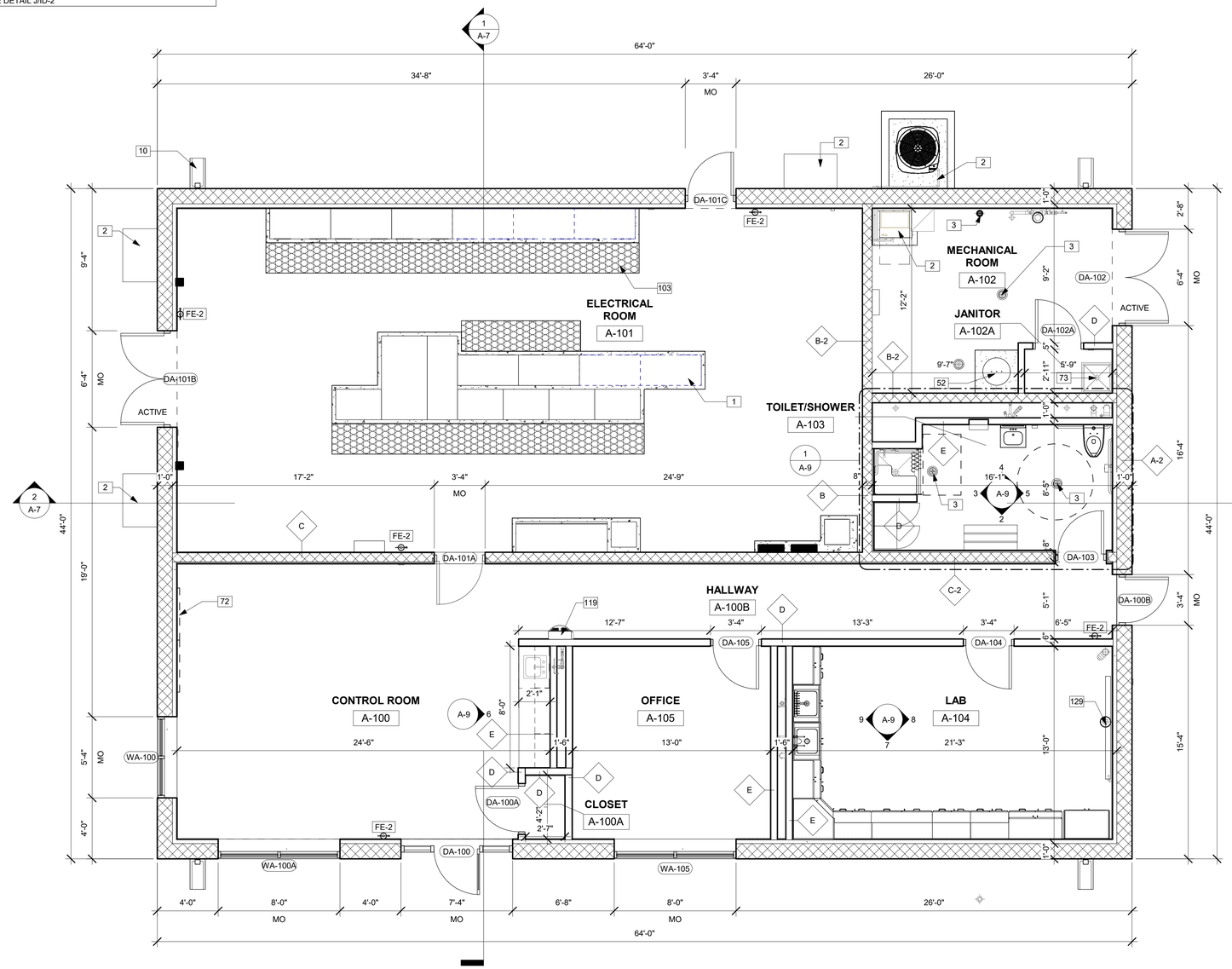
ISSUED FOR BID

KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
1	ELECTRICAL EQUIP, SEE "E" DWGS
2	HVAC EQUIP, SEE "H" DWGS
3	FLOOR DRAIN, SEE "P" DWGS
10	PRECAST CONCRETE SPLASH BLOCK, TYP.
52	HOT WATER HEATER, SEE "P" SHEETS
72	42" WALL MOUNTED MONITORS, TYP OF 4. PROVIDE BLOCKING IN WALL AS REQUIRED FOR MOUNTING
73	MOP SINK, SEE "P" DWGS
103	FLOOR MAT, TYP
119	WATER BOTTLE FILLER, SEE "P" DWGS
129	CHLORINE, FLOURIDE, AND pH/ CONDUCTIVITY ANALYZERS. SEE DETAIL J/ID-2

GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

SEE SHEET A-2 FOR LIFE SAFETY PLAN AND BUILDING CODE KEY DETERMINATIONS



FLOOR PLAN

1/4" = 1'-0"

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VALDOSTA WTP NO. 2
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OPERATIONS BUILDING
FLOOR PLAN

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101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 0.02782
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

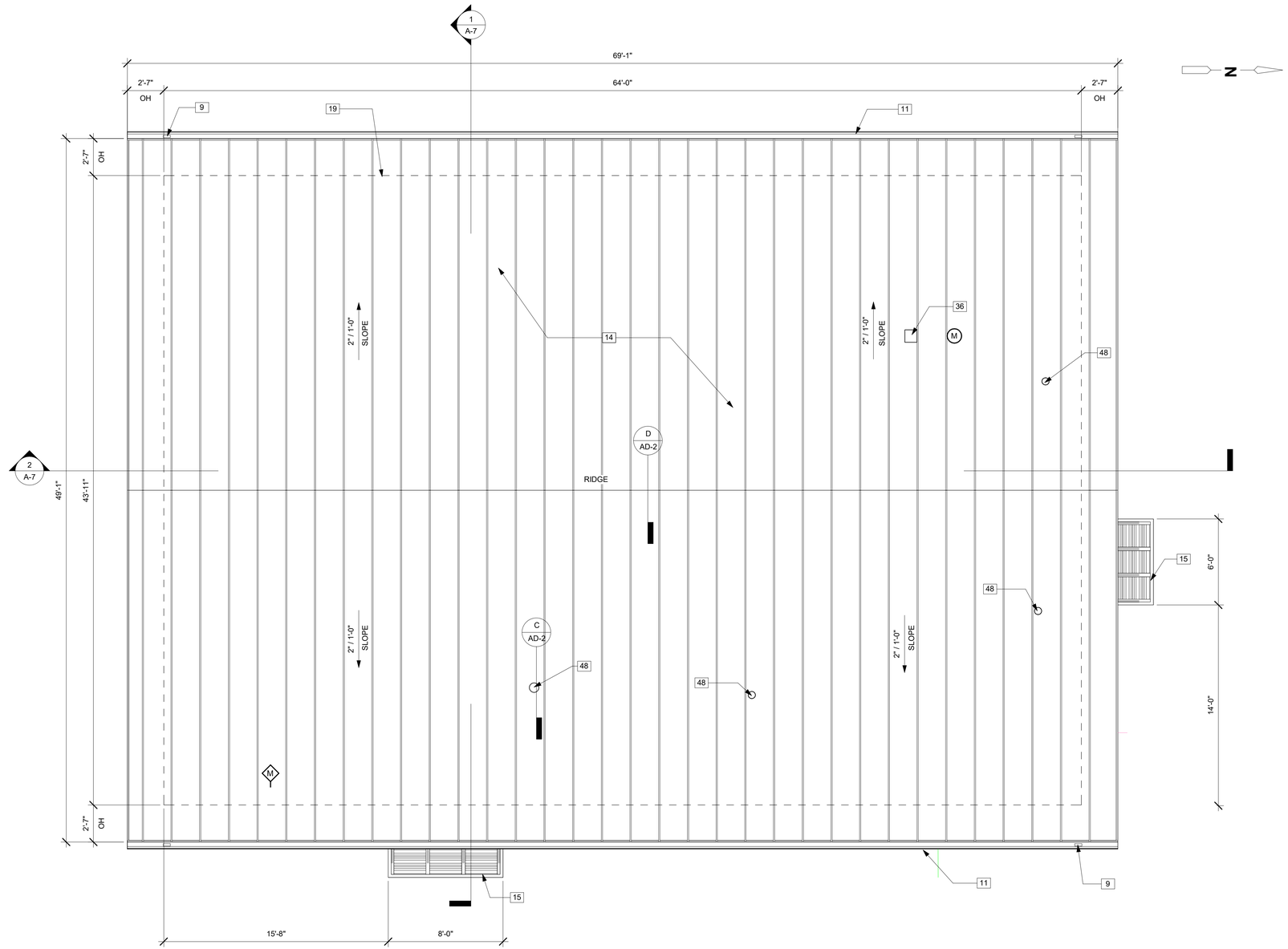
SHEET NO.
A-3

ISSUED FOR BID

KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
9	ALUMINUM DOWNSPOUT, TYP.
11	ALUMINUM GUTTER, TYP.
14	STANDING SEAM METAL ROOFING WITH RIGID INSULATION OVER METAL DECK
15	PRE-MANUFACTURED CANOPY
19	OUTLINE OF BUILDING BELOW
36	HVAC DUCT, SEE "H" DWGS
48	VENT THROUGH ROOF, SEE "P" DWGS

GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES



ROOF PLAN
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AND PRODUCTION WELLS

OPERATIONS BUILDING
ROOF PLAN

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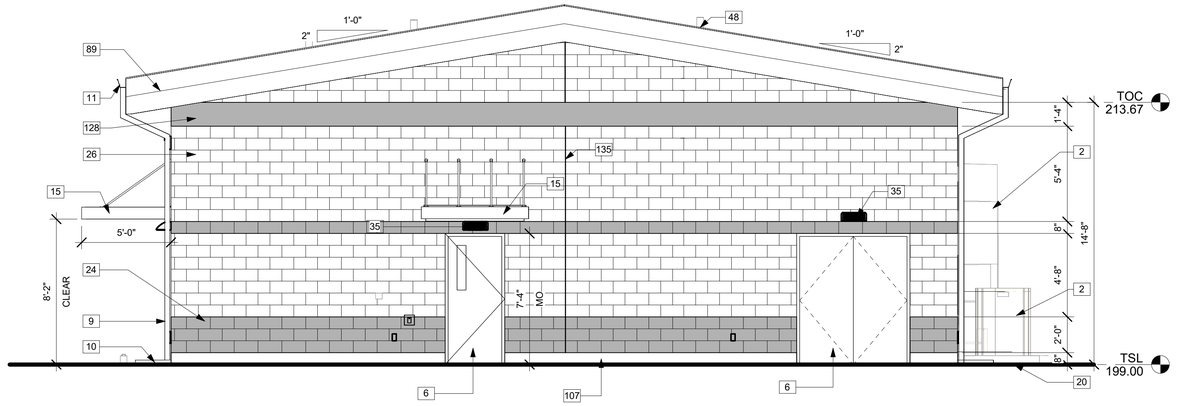
STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027792
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-4

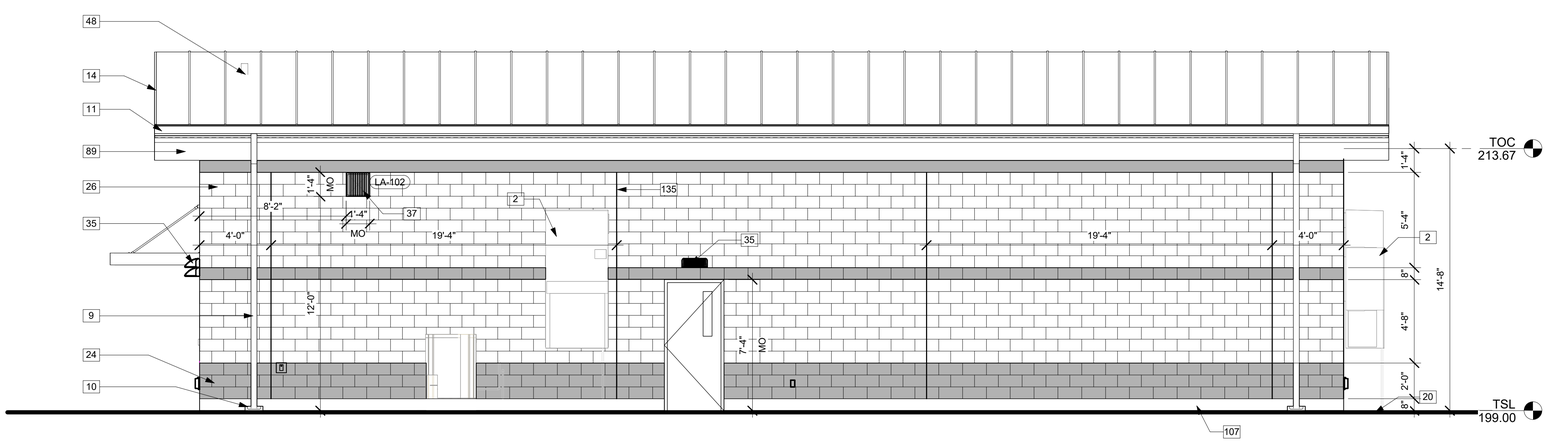
ISSUED FOR BID

KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
2	HVAC EQUIP, SEE "H" DWGS
6	FRP DOOR AND FRAME, SEE SCHD
9	ALUMINUM DOWNSPOUT, TYP.
10	PRECAST CONCRETE SPLASH BLOCK, TYP.
11	ALUMINUM GUTTER, TYP.
14	STANDING SEAM METAL ROOFING WITH RIGID INSULATION OVER METAL DECK
15	PRE-MANUFACTURED CANOPY
20	FINISHED GRADE, SEE "C" DWGS
24	12" GROUND FACE CMU COLOR A
26	12" SPLIT-FACE CMU COLOR B
35	LIGHT FIXTURES, SEE "E" DWGS
37	ALUMINUM LOUVER, SEE SCHD
48	VENT THROUGH ROOF, SEE "P" DWGS
89	ALUMINUM FASCIA WITH REVEAL, TYP
107	CONCRETE CURB, SEE "S" DWGS
128	CONCRETE BEAM, SEE "S" DWGS PTD CUSTOM COLOR TO MATCH CMU COLOR A
135	MASONRY CONTROL JOINT



NORTH ELEVATION

1/4" = 1'-0"



WEST ELEVATION

1/4" = 1'-0"

GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027282
REGISTERED ARCHITECT

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. TRIANA
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: C. SOLLOG
APPROVED BY: M. ALFORD
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
EXTERIOR ELEVATIONS I

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-5

ISSUED FOR BID

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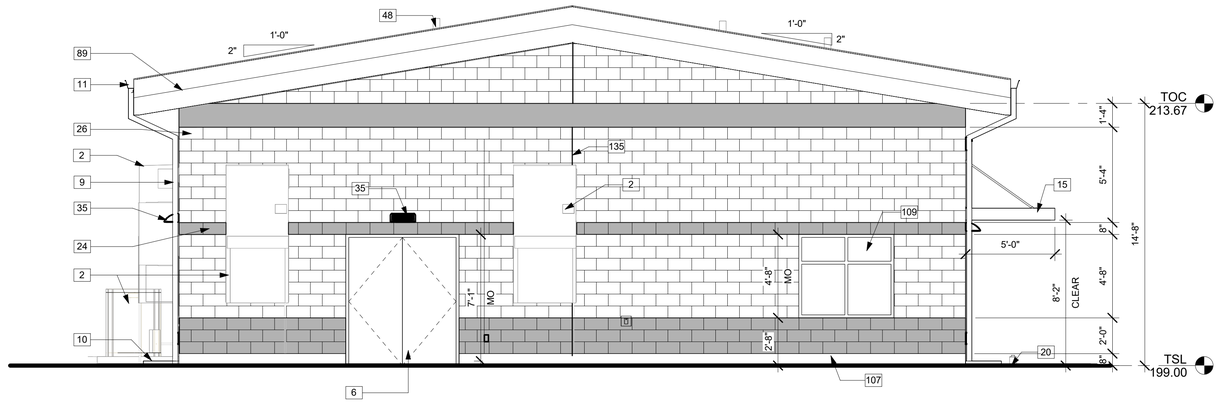
KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
2	HVAC EQUIP, SEE "H" DWGS
6	FRP DOOR AND FRAME, SEE SCHD
9	ALUMINUM DOWNSPOUT, TYP.
10	PRECAST CONCRETE SPLASH BLOCK, TYP.
11	ALUMINUM GUTTER, TYP.
14	STANDING SEAM METAL ROOFING WITH RIGID INSULATION OVER METAL DECK
15	PRE-MANUFACTURED CANOPY
20	FINISHED GRADE, SEE "C" DWGS
24	12" GROUND FACE CMU COLOR A
26	12" SPLIT-FACE CMU COLOR B
35	LIGHT FIXTURES, SEE "E" DWGS
48	VENT THROUGH ROOF, SEE "P" DWGS
89	ALUMINUM FASCIA WITH REVEAL, TYP
107	CONCRETE CURB, SEE "S" DWGS
109	ALUMINUM WINDOW SYSTEM, SEE SCHD
128	CONCRETE BEAM, SEE "S" DWGS PTD CUSTOM COLOR TO MATCH CMU COLOR A
135	MASONRY CONTROL JOINT

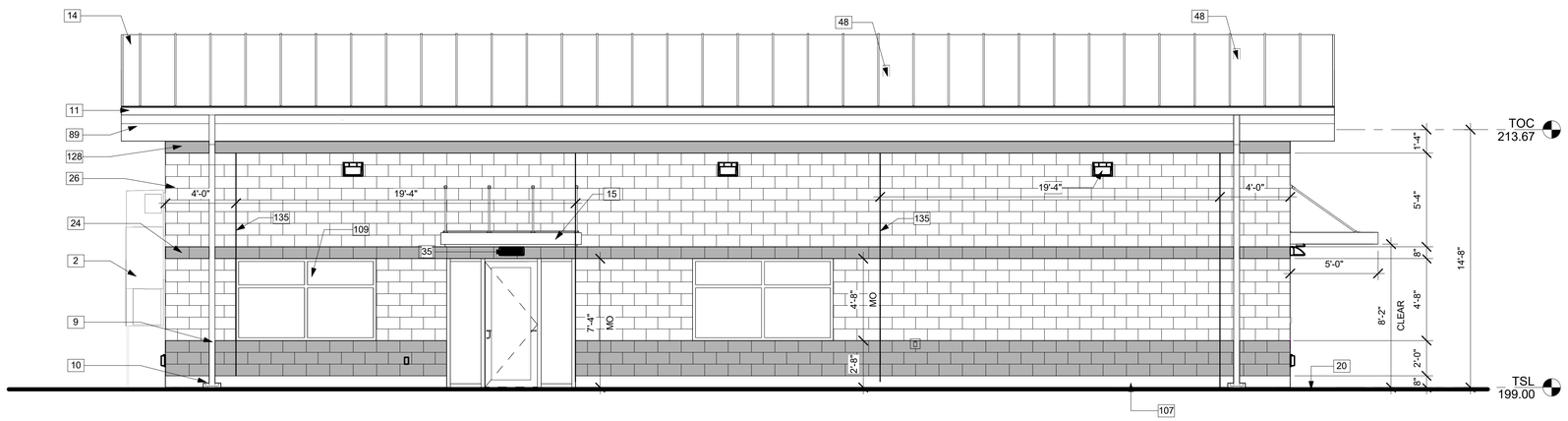
GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES



SOUTH ELEVATION

1/4" = 1'-0"



EAST ELEVATION

1/4" = 1'-0"

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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SHEET CHK'D BY: C. WYNN
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APPROVED BY: M. ALFORD
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
EXTERIOR ELEVATIONS II

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

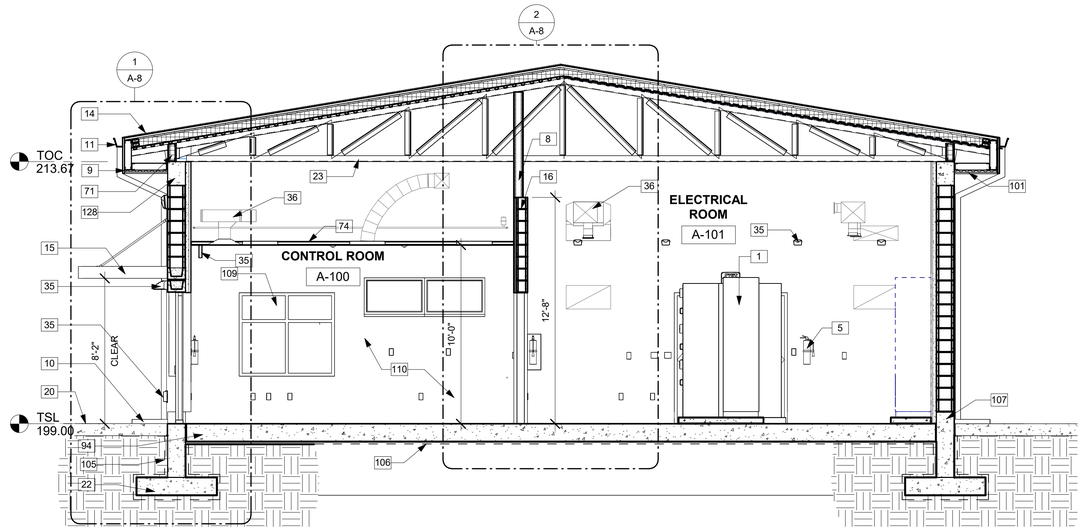
STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027282
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

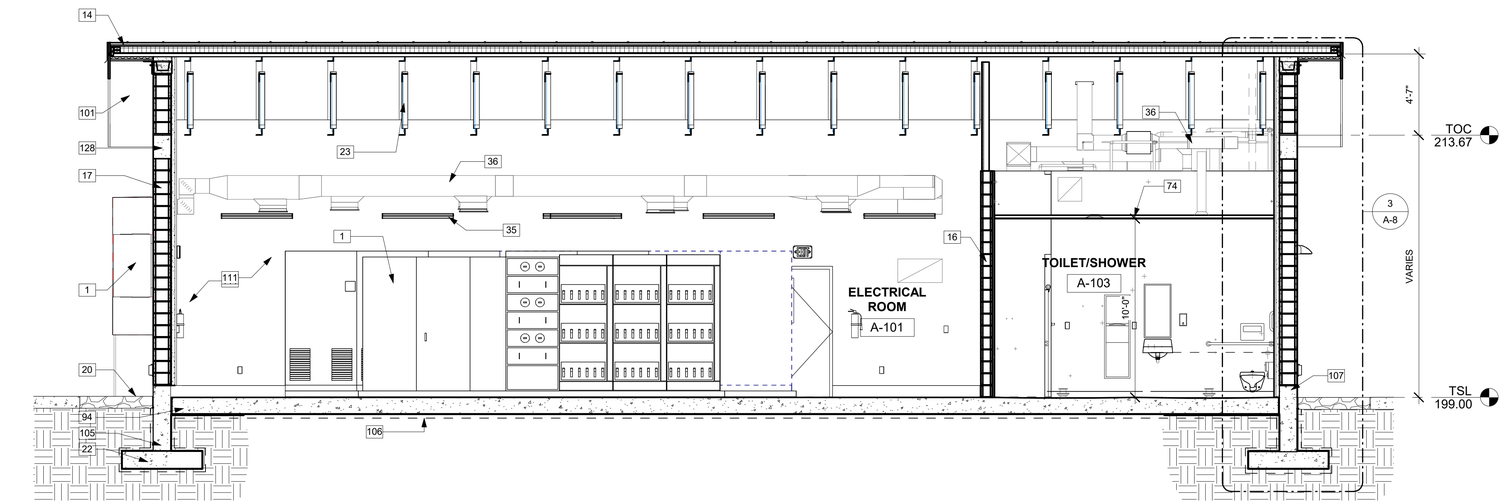
SHEET NO.
A-6

ISSUED FOR BID

KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
1	ELECTRICAL EQUIP, SEE "E" DWGS
5	FIRE EXTINGUISHER, TYP.
8	GYPSUM BOARD OVER METAL STUDS. SEE PARTITION TYPES FOR ADDITIONAL INFORMATION
9	ALUMINUM DOWNSPOUT, TYP.
10	PRECAST CONCRETE SPLASH BLOCK, TYP.
11	ALUMINUM GUTTER, TYP.
14	STANDING SEAM METAL ROOFING WITH RIGID INSULATION OVER METAL DECK
15	PRE-MANUFACTURED CANOPY
16	8" CMU PAINTED, SEE "S" DWGS
17	12" CMU, SEE "S" DWGS
20	FINISHED GRADE, SEE "C" DWGS
22	CONCRETE FOUNDATION, SEE "S" DWGS
23	STEEL TRUSS, SEE "S" DWGS
35	LIGHT FIXTURES, SEE "E" DWGS
36	HVAC DUCT, SEE "H" DWGS
71	3" THICK RIGID INSULATION, R-16 (MIN)
74	2' x 2' ACOUSTIC CEILING TILE
94	CONCRETE SLAB, SEE "S" DWGS
101	ALUMINUM SOFFIT SYSTEM
105	DAMPPROOFING, TYP
106	VAPOR RETARDER
107	CONCRETE CURB, SEE "S" DWGS
109	ALUMINUM WINDOW SYSTEM, SEE SCHD
110	PAINTED GYPSUM BOARD
111	PAINTED CMU
128	CONCRETE BEAM, SEE "S" DWGS PTD CUSTOM COLOR TO MATCH CMU COLOR A



1 BUILDING SECTION
1/4" = 1'-0"



2 BUILDING SECTION
1/4" = 1'-0"

GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

STRUCTURAL ITEMS SHOWN ON THIS SHEET ARE FOR GRAPHICAL PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC LOCATIONS A DETAILED REQUIREMENTS

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VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
BUILDING SECTIONS

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027282
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-7

ISSUED FOR BID

KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
5	FIRE EXTINGUISHER, TYP.
8	GYPSUM BOARD OVER METAL STUDS. SEE PARTITION TYPES FOR ADDITIONAL INFORMATION
9	ALUMINUM DOWNSPOUT, TYP.
10	PRECAST CONCRETE SPLASH BLOCK, TYP.
11	ALUMINUM GUTTER, TYP.
15	PRE-MANUFACTURED CANOPY
16	8" CMU PAINTED, SEE "S" DWGS
17	12" CMU, SEE "S" DWGS
20	FINISHED GRADE, SEE "C" DWGS
22	CONCRETE FOUNDATION, SEE "S" DWGS
23	STEEL TRUSS, SEE "S" DWGS
27	3" THICK RIGID INSULATION, R-30 (MIN)
35	LIGHT FIXTURES, SEE "E" DWGS
36	HVAC DUCT, SEE "H" DWGS
74	2' x 2' ACOUSTIC CEILING TILE
76	ALUMINUM STOREFRONT DOOR, SEE SCHD
86	1 1/2" STANDING SEAM METAL ROOFING
87	1/2" COVERBOARD
88	WOOD BLOCKING AS NEEDED, TYP
89	ALUMINUM FASCIA WITH REVEAL, TYP
90	ALUMINUM SOFFIT PANEL
91	HAT CHANNELS AT 16" O.C.
92	3 5/8" COLD FORMED METAL FRAMING
93	4" RIGID INSULATION, MIN R-20
94	CONCRETE SLAB, SEE "S" DWGS
105	DAMPPROOFING, TYP
106	VAPOR RETARDER
107	CONCRETE CURB, SEE "S" DWGS
114	METAL DECKING, SEE "S" DWGS
115	ROOF PANEL CLIPS PER MFR REQ.
116	METAL FLASHING WITH DRIP EDGE
117	LINTEL, TYP, SEE "S" DWGS
118	RIDGE CAP
121	HORIZONTAL JOINT REINFORCEMENT EVERY OTHER COURSE VERT, TYP.
122	ICE AND WATER BARRIER UNDERLAYMENT
123	5/8" GYP BOARD INTERIOR FACE ONLY
128	CONCRETE BEAM, SEE "S" DWGS PTD CUSTOM COLOR TO MATCH CMU COLOR A

GENERAL NOTES

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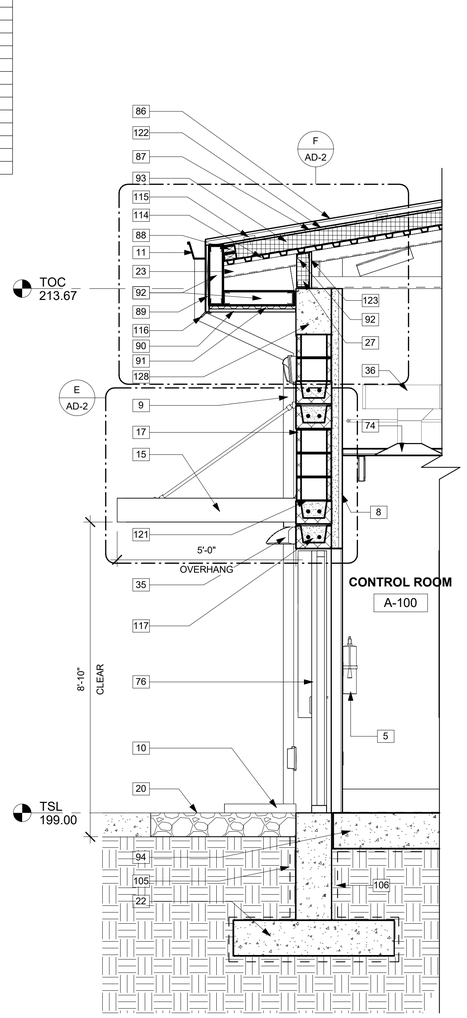
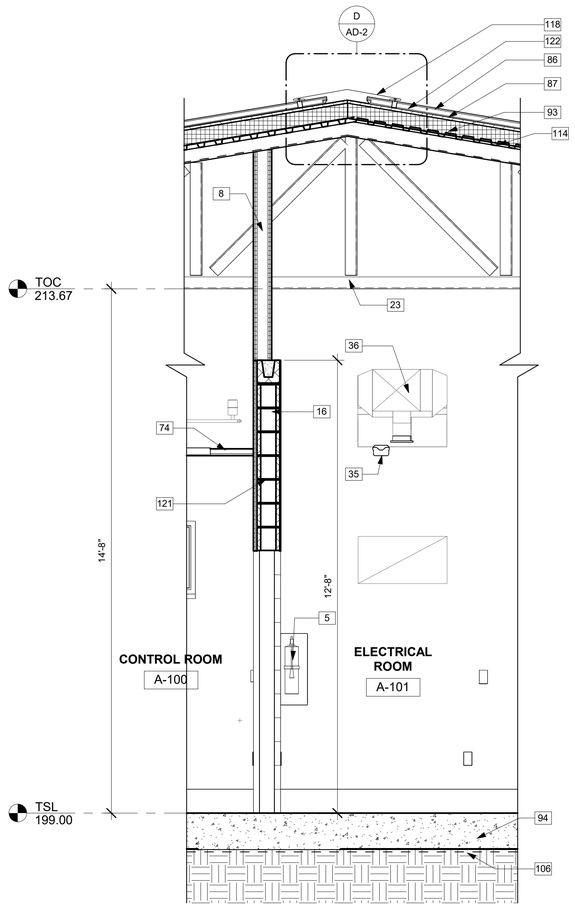
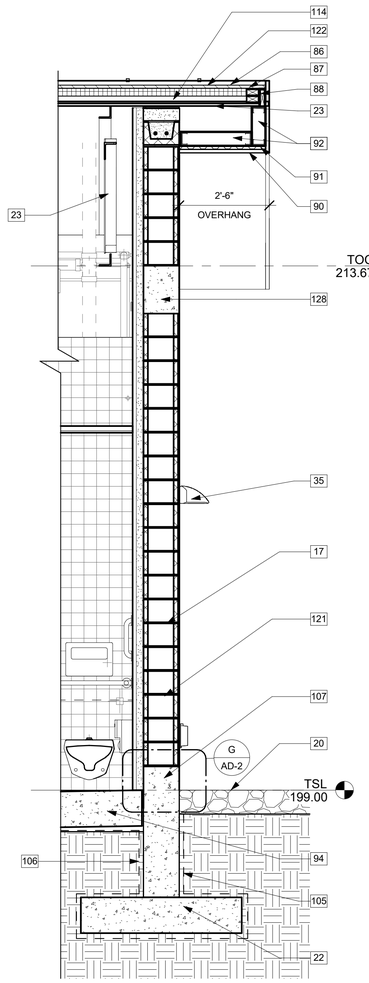


1 WALL SECTION
1/2" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"

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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
WALL SECTIONS

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027282
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-8

ISSUED FOR BID

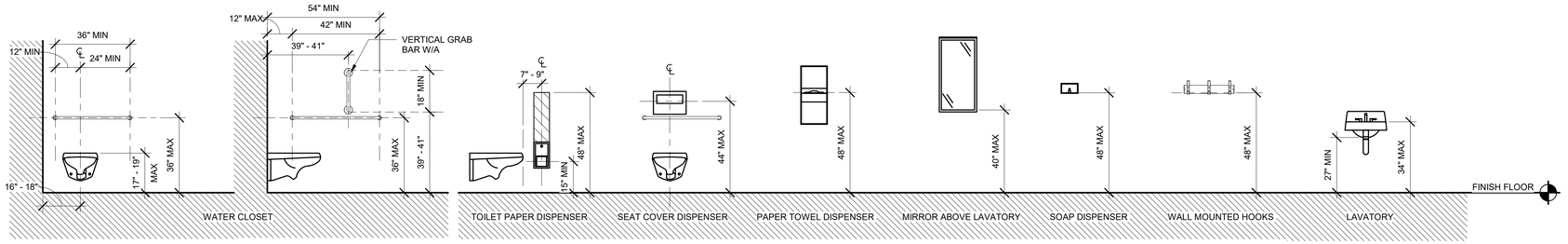
KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
35	LIGHT FIXTURES, SEE "E" DWGS
77	4" INTEGRAL RESINOUS FLOORING COVE BASE
85	LOCKER
99	SOLID SURFACE COUNTERTOP WITH INTEGRAL BACKSPLASH
102	REFRIGERATOR
110	PAINTED GYPSUM BOARD
112	BENCH
113	4" X 4" WALL TILE
119	WATER BOTTLE FILLER, SEE "P" DWGS
125	FAUCET, SEE "P" DWGS
126	STAINLESS STEEL SINK, SEE "P" DWGS
127	4" TILE BASE
132	EPOXY RESIN COUNTERTOP AND BACKSPLASH
133	EPOXY UNDERMOUNT SINK
134	WALL TILE CERAMIC ACCET BAND

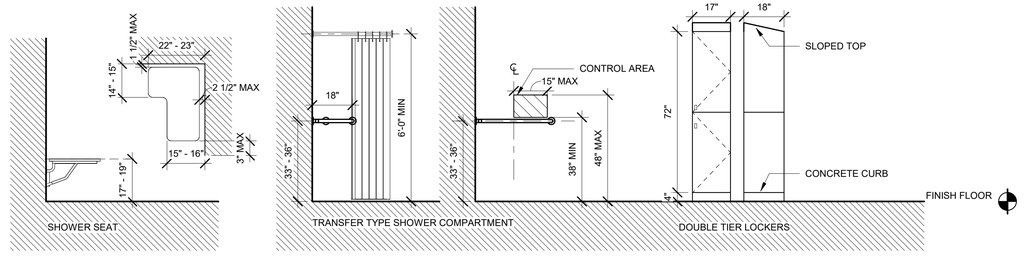
CASEWORK SCHEDULE

TYPE MARK	QUANTITY	DESCRIPTION
L-1	1	UPPER CABINET DOUBLE DOOR
L-2	1	ADA DOUBLE DOOR SINK UNIT
L-3	1	BASE CABINET DOUBLE DOOR
L-4	3	WALL CABINET SWINGING PANEL DOORS (DOUBLE)
L-5	4	OPEN SHELVING WALL UNIT
L-6	1	WALL CABINET- CORNER
L-7	7	BASE CABINET SINGLE DOOR - LEFT HAND WITH DRAWERS
L-8	1	BASE CABINET - CORNER
L-9	1	MICROSCOPE STORAGE
L-10	2	BASE CABINET DOUBLE DOOR SINK UNIT
L-14	1	DECK MOUNTED HOT/COLD WATER MIXING GOOSENECK FAUCET W/ WRISTBLADE CONTROLS
L-15	2	DECK MOUNTED HOT/COLD WATER MIXING GOOSENECK W/VB
L-16	1	EPOXY PEGBOARD WITH DRIP TROUGH

ACCESORY MOUNTING HEIGHTS

GENERAL NOTES:
1. PROVIDE WOOD BLOCKING AS REQUIRED FOR ALL TOILET ACCESSORIES.
2. WALL MOUNTED ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH REACH LIMITS APPLICABLE TO INSTALLATION LOCATION:
   - MAXIMUM UNOBSTRUCTED FORWARD OR SIDE REACH IS 48".
   - MAXIMUM OBSTRUCTED FORWARD REACH IS 44".
   - MAXIMUM OBSTRUCTED SIDE REACH IS 46".



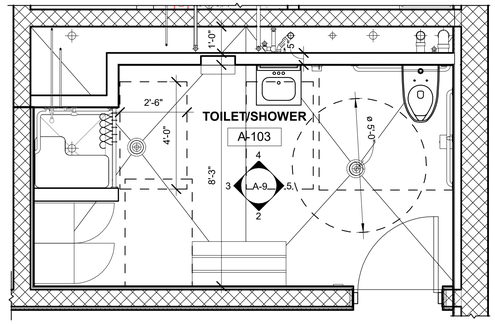


TOILET ACCESSORY SCHEDULE

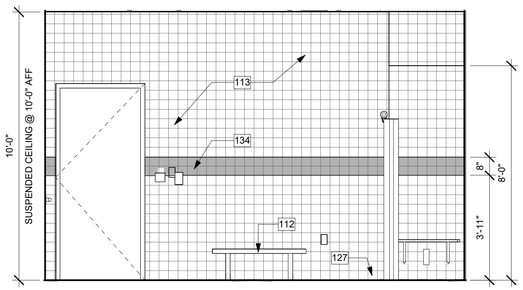
TAG	QTY	MODEL	DESCRIPTION	MANUFACTURER
T-1	1	B-2908 SERIES	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	BOBRICK WASHROOM EQUIPMENT, INC
T-2	1	B-2111	CLASSIC SERIES SURFACE MOUNTED SOAP DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC
T-3	1	B-4221	SEAT COVER- SURFACE MOUNTED	BOBRICK WASHROOM EQUIPMENT, INC
T-4	2	B-6806 SERIES	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAB FLANGE	BOBRICK WASHROOM EQUIPMENT, INC
T-5	1	B-6806 SERIES	1 1/2" DIAMETER STAINLESS STEEL HORIZONTAL TWO-WALL BAR	BOBRICK WASHROOM EQUIPMENT, INC
T-6	1	B-4288	SURFACE- MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK WASHROOM EQUIPMENT, INC
T-7	1	B-672 SERIES	SINGLE HOOK	BOBRICK WASHROOM EQUIPMENT, INC
T-8	1	B-6806 SERIES	1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAB FLANGE	BOBRICK WASHROOM EQUIPMENT, INC
T-9	1	B-5181	ADA SHOWER SEAT	BOBRICK WASHROOM EQUIPMENT, INC
T-10	1	B-3944 CLASSIC SERIES	RECESSED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK WASHROOM EQUIPMENT, INC
T-11	1	B-610X36/B-204-3	COMMERCIAL SHOWER CURTAIN ROD, STAINLESS STEEL/ SHOWER CURTAIN	BOBRICK WASHROOM EQUIPMENT, INC

GENERAL NOTES

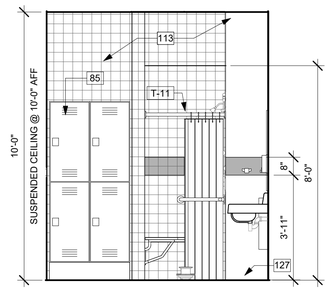
SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES



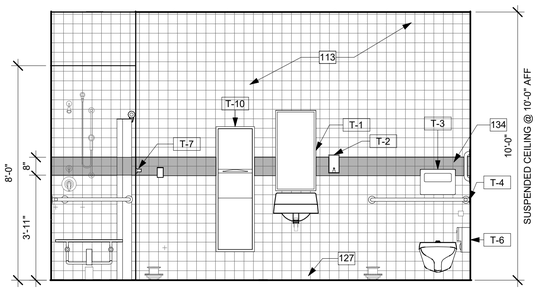
1 ENLARGED TOILET ROOM PLAN A-3 — 3/8" = 1'-0"



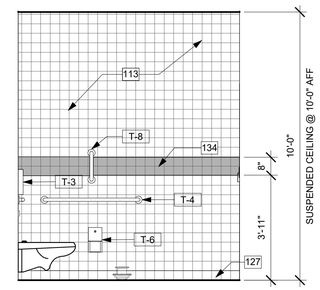
2 TOILET ROOM EAST ELEVATION A-3 — 3/8" = 1'-0"



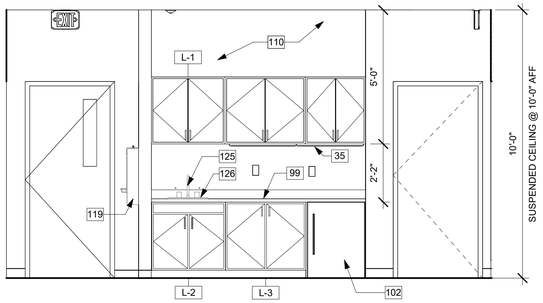
3 TOILET ROOM SOUTH ELEVATION A-3 — 3/8" = 1'-0"



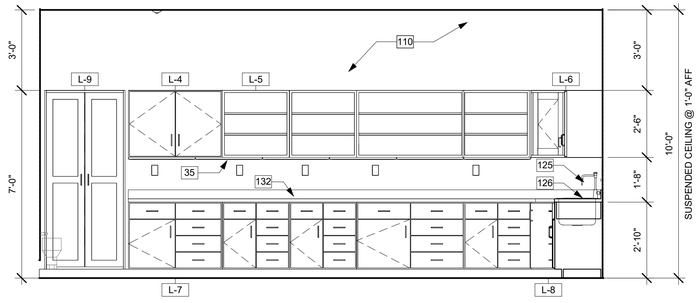
4 TOILET ROOM WEST ELEVATION A-3 — 3/8" = 1'-0"



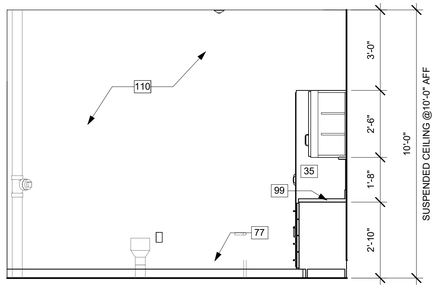
5 TOILET ROOM NORTH ELEVATION A-3 — 3/8" = 1'-0"



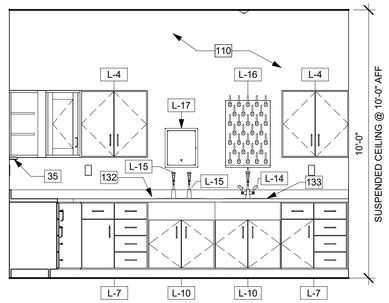
6 CONTROL ROOM NORTH ELEVATION A-3 — 3/8" = 1'-0"



7 LAB EAST ELEVATION A-3 — 3/8" = 1'-0"



8 LAB NORTH ELEVATION A-3 — 3/8" = 1'-0"



9 LAB SOUTH ELEVATION A-3 — 3/8" = 1'-0"

CDM Architects Inc.
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STATE OF GEORGIA
MICHAEL T. ALFORD
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CROSS CHK'D BY:
APPROVED BY: Approver
DATE: JULY 2025

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
INTERIOR ELEVATIONS

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-9

ISSUED FOR BID

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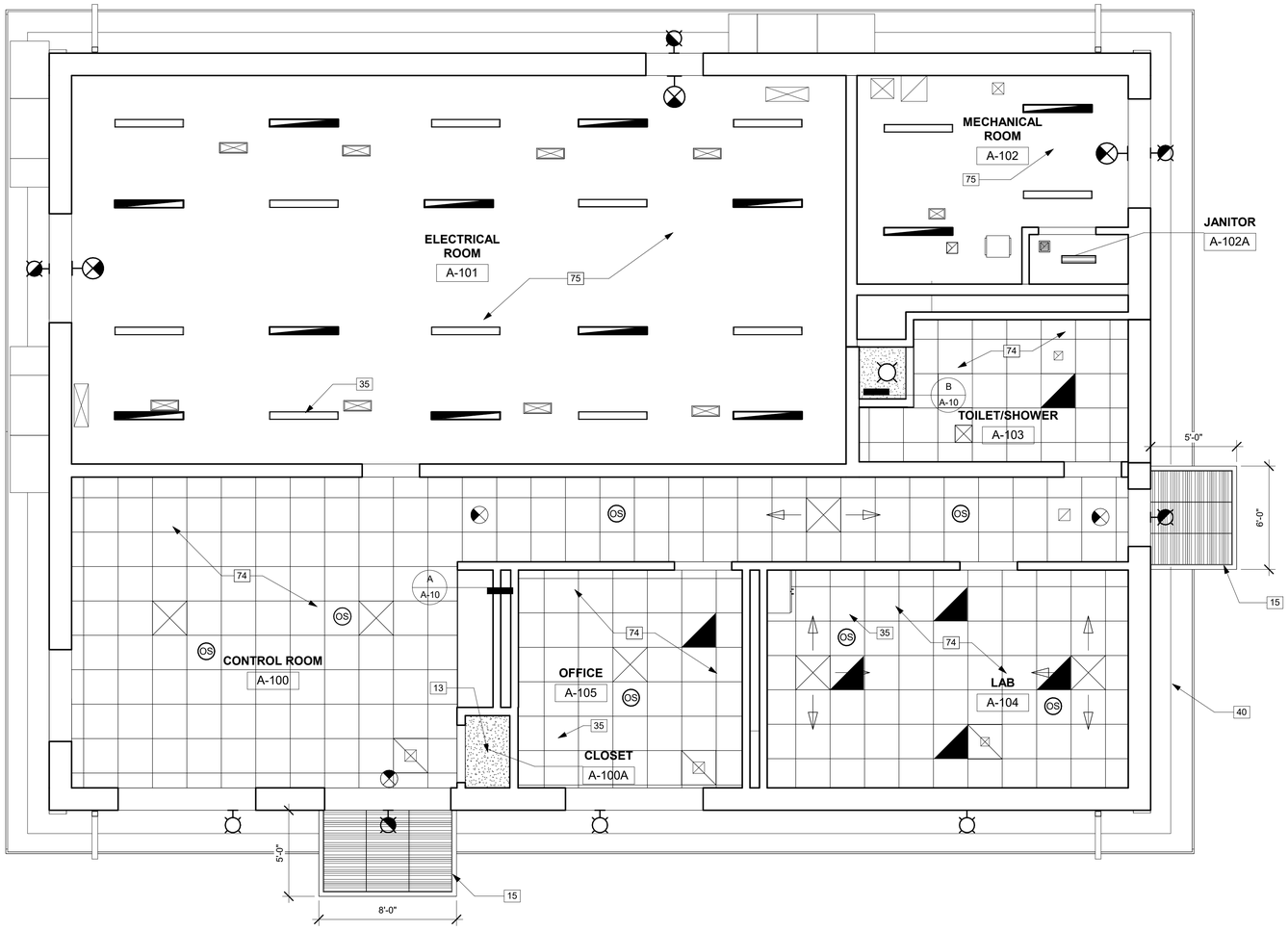
KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
13	3-5/8" METAL STUDS WITH GYPSUM BOARD BOTH SIDES
15	PRE-MANUFACTURED CANOPY
35	LIGHT FIXTURES, SEE "E" DWGS
40	ALUMINUM SOFFIT
74	2' x 2' ACOUSTIC CEILING TILE
75	OPEN CEILING



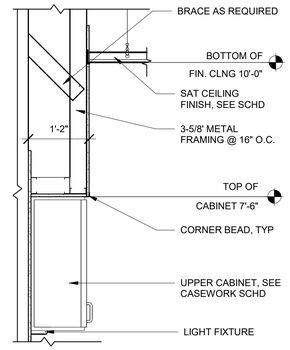
REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

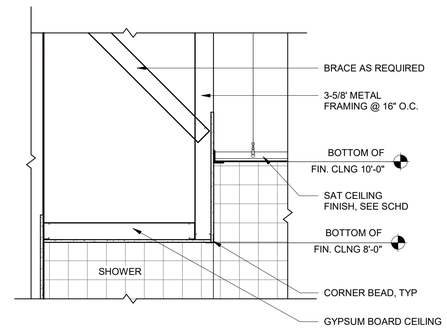
SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

CEILING FINISH LEGEND		
SYMBOL	TYPE	DESCRIPTION
	SAT	24" X 24" SUSPENDED ACOUSTICAL CEILING SYSTEM
	EXP	EXPOSED TO STRUCTURE
	GYP	GYPSUM BOARD

CEILING FIXTURE LEGEND	
SYMBOL	DESCRIPTION
	EQUIP HVAC SEE "H" DWGS
	EXIT SIGN, SEE "E" DWGS
	LIGHT FIXTURE, SEE "E" DWGS
	EMERGENCY LIGHTING BATTERY UNIT
	LIGHT FIXTURE, SEE "E" DWGS
	SHADED AREA INDICATES LIGHTING FIXTURE WITH EMERGENCY BACKUP SOURCE
	LIGHT FIXTURE, SEE "E" DWGS
OS	OCCUNPACY SENSOR, SEE "E" DWGS



A A-10 **SOFFIT DETAIL**
3/4" = 1'-0"



B A-10 **SOFFIT DETAIL**
3/4" = 1'-0"

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. TRIANA
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: C. SOLLOG
APPROVED BY: M. ALFORD
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
REFLECTED CEILING PLAN

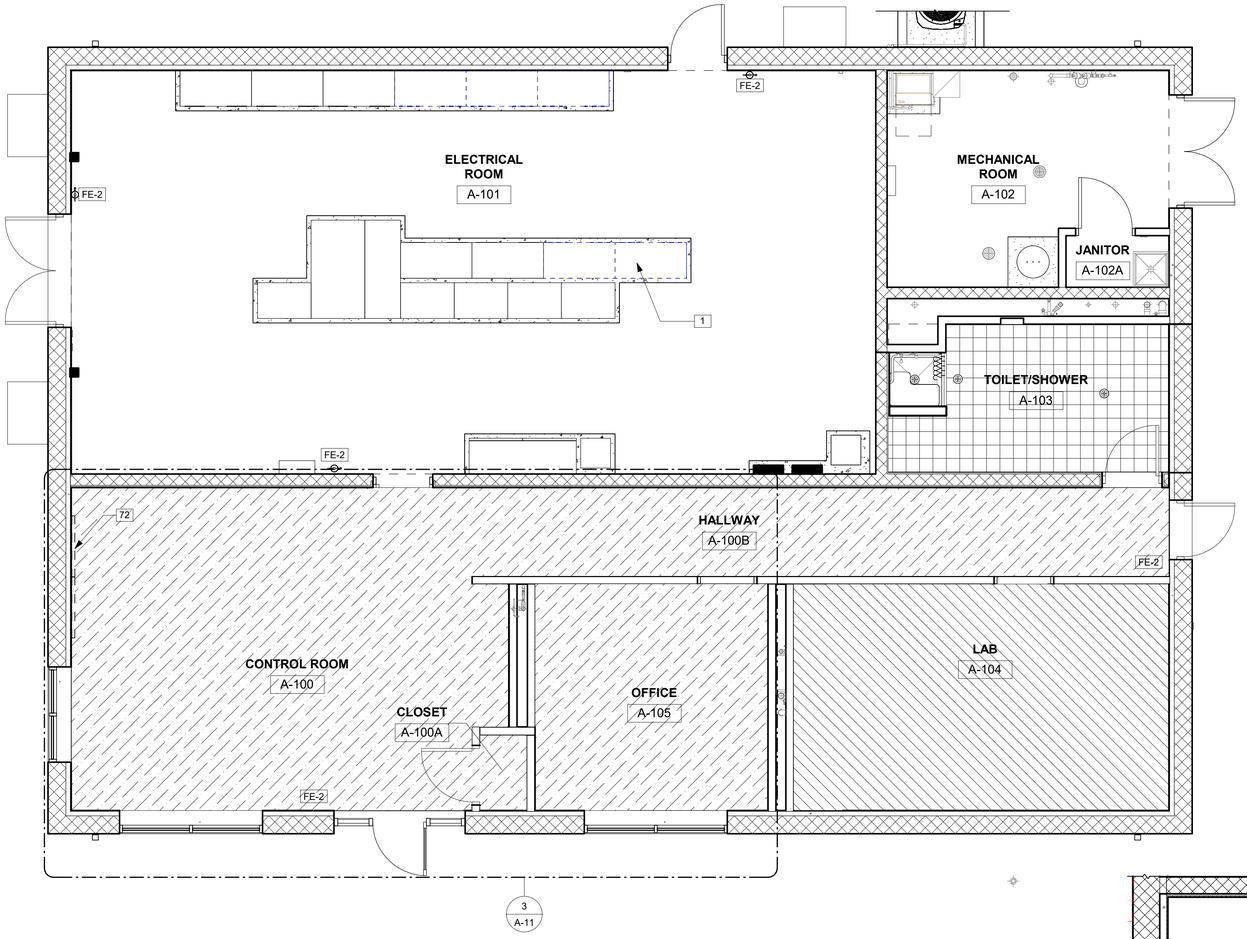
CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027282
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-10

ISSUED FOR BID



FINISH FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES

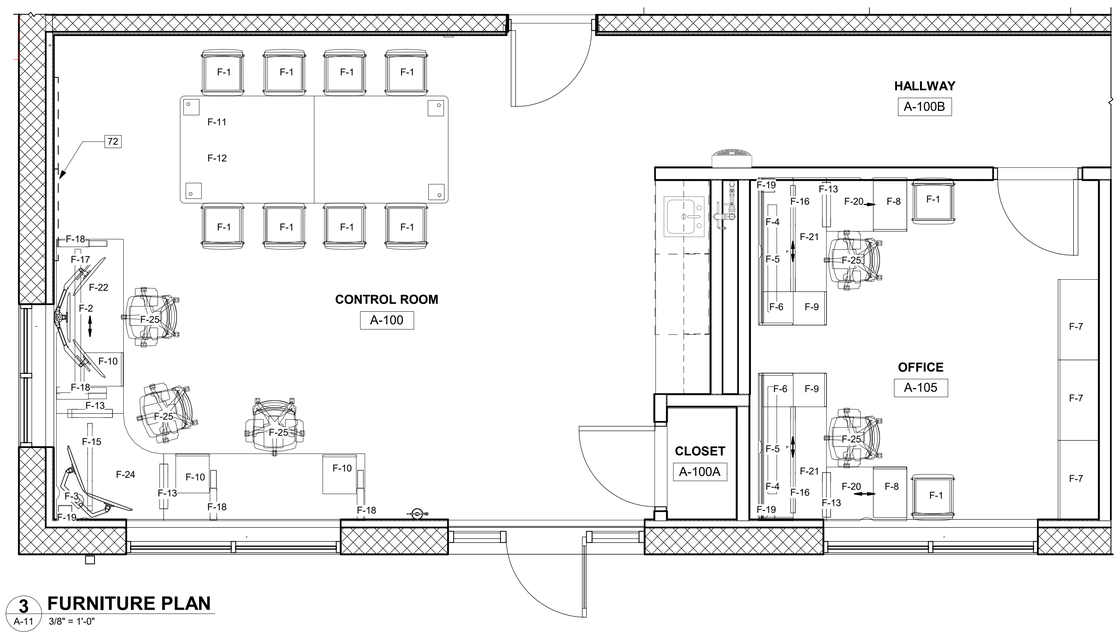
SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

FLOOR FINISH LEGEND		
SYMBOL	TYPE	DESCRIPTION
	SEAL	SEALED CONCRETE
	RES	RESINOUS FLOOR SYSTEM
	VCT	VCT FLOOR
	CT	CERAMIC TILE

KEYNOTE LEGEND	
NUMBER	KEYNOTE DESCRIPTION
1	ELECTRICAL EQUIP, SEE "E" DWGS
72	42" WALL MOUNTED MONITORS, TYP OF 4. PROVIDE BLOCKING IN WALL AS REQUIRED FOR MOUNTING

BASIS OF DESIGN FURNITURE SCHEDULE

TYPE	MODEL NUMBER	DESCRIPTION	MANUFACTURER	QUANTITY
F-1	475410M	PLAYER; CHAIR-LEG BASE, NO ARMS, GLIDES	STEELCASE	10
F-2	CFPLUS	CF PLUS MONITOR ARM	STEELCASE	2
F-3	CFSTATIC	CF STATIC MONITOR ARM	STEELCASE	1
F-4	L54FT	BOTTOMLINE; LIGHT TASK, T5, 4L IN FT	STEELCASE	2
F-5	RBB66QTAK	UNIVERSAL; BIN-OVER THE CASE, FLAT FRONT, TECHNOLOGY/ANSWER/ KICK APPLICATION, 66W	STEELCASE	2
F-6	RHK66	HUTCH KIT, 66W	STEELCASE	2
F-7	RLF18365F	UNIVERSAL; LATERAL FILE, 1 LIFT UP DOOR/FIXED SHELF, 4 DRAWERS, FLUSH STEEL FRONT, 18D X 36W X 65 1/2H	STEELCASE	3
F-8	RLF2427BF	PEDESTAL-FIXED, 2 FILE, FLUSH STEEL FRONT, 22 5/8D X 15W X 27H	STEELCASE	2
F-9	RLF3027AF	PEDESTAL-FIXED, 2 BOX/ 1FILE, FLUSH STEEL FRONT, 28 5/8D X 15W X 27H	STEELCASE	2
F-10	RLF1827AF	PEDESTAL-FIXED, 2 BOX/ 1FILE, FLUSH STEEL FRONT, 17 1/2D	STEELCASE	3
F-11	TS4L27PG4	TOP-CONFERENCE TABLE, RECTANGLE, HIGH PRESSURE LAMINATE, 48D X 120W	STEELCASE	1
F-12	TS4THR48120	TOP-CONFERENCE TABLE, RECTANGLE, HIGH PRESSURE LAMINATE, 48D X 120W	STEELCASE	1
F-13	TS720WSP	SUPPORT PLATE, 20D	STEELCASE	4
F-14	TS7WKSPT	REINFORCING CHANNEL, 57W	STEELCASE	1
F-15	TS7WKSPT39	REINFORCING CHANNEL, 39W	STEELCASE	1
F-16	TS7WKSPT48	REINFORCING CHANNEL, 48W	STEELCASE	2
F-17	TS7WKSPT60	REINFORCING CHANNEL, 60W	STEELCASE	1
F-18	UCL	C LEG-DOUBLE POST, GLIDES, 28 1/2H	STEELCASE	4
F-19	UPL	C LEG, GLIDES, 28 1/2H	STEELCASE	3
F-20	USWS	WORKSURFACE-STRAIGHT, LAMINATE, PLASTIC EDGE PROFILE	STEELCASE	2
F-21	USWS	WORKSURFACE-STRAIGHT, LAMINATE, PLASTIC EDGE PROFILE	STEELCASE	2
F-22	USWS	WORKSURFACE-STRAIGHT, LAMINATE, PLASTIC EDGE PROFILE	STEELCASE	1
F-23	USWS	WORKSURFACE-STRAIGHT, LAMINATE, PLASTIC EDGE PROFILE	STEELCASE	1
F-24	WCC334848	WORKSURFACE-CORNER, CURVED, 30DL X 48WL X 48WR	STEELCASE	1
F-25	ZILOCHAIR	ZILO TASK CHAIR	STEELCASE	5



3 FURNITURE PLAN

3/8" = 1'-0"

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 0.027892
REGISTERED ARCHITECT

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. TRIANA
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: C. SOLLOG
APPROVED BY: M. ALFORD
DATE: JULY 2025

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VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
FLOOR FINISH PLAN AND FURNITURE LAYOUT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-11

ISSUED FOR BID

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DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	EXT DOOR	SIZE			DOOR				FRAME			DETAILS			FIRE RATING (MIN)	HARDWARE SET	NOTES
				WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD			
DA-100	CONTROL ROOM	*	PR	1'-6"	7'-2"	SF1	ALUM	--	LOW -E	FG	ALUM	--	A/AD-2	B/AD-2	K/AD-1	0	HW-1	
DA-100A	CONTROL ROOM			3'-0"	7'-2"	F	HM	PTD	--	F1	HM	PTD	I/AD-1	J/AD-1	--	0	HW-4	
DA-100B	HALLWAY	*		3'-0"	7'-2"	NV	ALUM	PTD	LOW-E	F1	ALUM	PTD	A/AD-1	B/AD1	K/AD-1	0	HW-3	
DA-101A	ELECTRICAL ROOM			3'-0"	7'-2"	F	HM	PTD	--	F1	HM	PTD	F/AD-1	G/AD-1	R/AD-1	0	HW-4	
DA-101B	ELECTRICAL ROOM	*	PR	3'-0"	7'-2"	F	ALUM	SPEC	--	F2	ALUM	SPEC	I/AD-1	B/AD-1	K/AD-1	0	HW-2	
DA-101C	ELECTRICAL ROOM	*		3'-0"	7'-2"	NV	ALUM	SPEC	LOW-E	F1	ALUM	SPEC	A/AD-1	B/AD-1	K/AD-1	0	HW-3	
DA-102	MECHANICAL ROOM	*	PR	3'-0"	7'-2"	F	ALUM	SPEC	--	F2	ALUM	SPEC	A/AD-1	B/AD-1	K/AD-1	0	HW-2	
DA-102A	JANITOR			3'-0"	7'-2"	F	HM	PTD	--	F1	HM	PTD	I/AD-1	J/AD-1	--	0	HW-5	1
DA-103	TOILET/SHOWER			3'-0"	7'-2"	F	HM	PTD	--	F1	HM	PTD	C/AD-1	D/AD-1	H/AD-1	0	HW-5	1
DA-104	LAB			3'-0"	7'-2"	F	HM	PTD	--	F1	HM	PTD	I/AD-1	J/AD-1	H/AD-1	0	HW-6	
DA-105	OFFICE			3'-0"	7'-2"	F	HM	PTD	--	F1	HM	PTD	I/AD-1	J/AD-1	--	0	HW-6	

NOTES:
1. UNDERCUT DOOR A MINUMUM OF 3/4"

WINDOW SCHEDULE

WINDOW NUMBER	ROOM NAME	SIZE		TYPE	FRAME		GLAZING	DETAILS			NOTES
		HEIGHT	WIDTH		MATERIAL	FINISH		HEAD	JAMB	SILL	
WA-100	CONTROL ROOM	4'-8"	5'-4"	W1	ALUM	SPEC	LOW-E IMPACT	14/AD-1	15/AD-1	16/AD-1	
WA-100A	CONTROL ROOM	4'-8"	8'-0"	W1	ALUM	SPEC	LOW-E IMPACT	14/AD-1	15/AD-1	16/AD-1	
WA-105	OFFICE	4'-8"	8'-0"	W1	ALUM	SPEC	LOW-E IMPACT	14/AD-1	15/AD-1	16/AD-1	

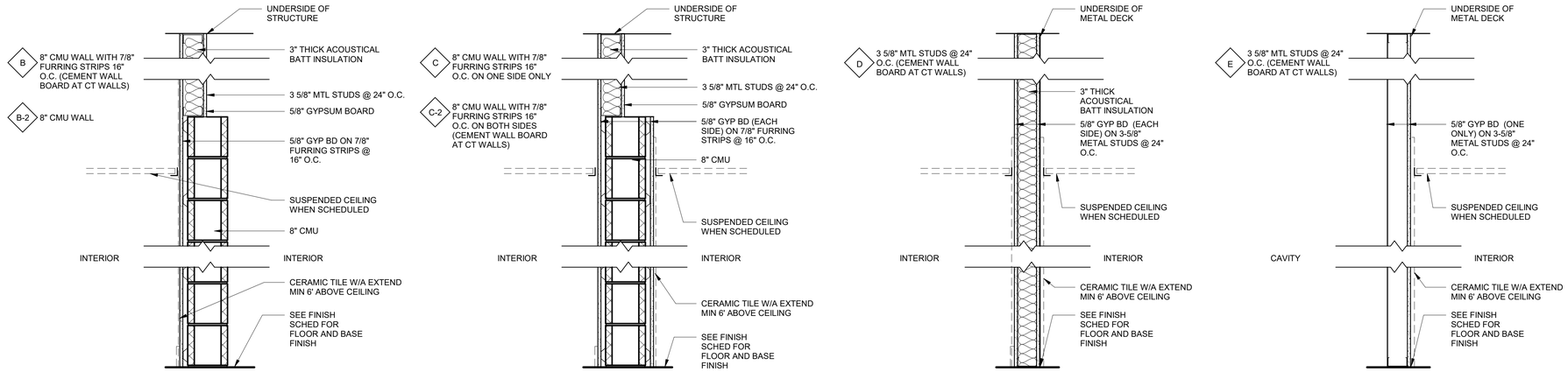
FINISH SCHEDULE

ROOM NAME	ROOM NUMBER	FLOOR		WALL										CEILING			NOTES
				NORTH		EAST		SOUTH		WEST		BASE					
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	DETAIL	MATERIAL	FINISH	HEIGHT	
CONTROL ROOM	A-100	CONC	VCT	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	RB	1	SAT	SPEC	10'-0"	
CLOSET	A-100A	CONC	VCT	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	RB	1	SAT	SPEC	10'-0"	
HALLWAY	A-100B	CONC	VCT	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	RB	1	SAT	SPEC	10'-0"	
ELECTRICAL ROOM	A-101	CONC	SEALED	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	-	--	EXP	PTD		
MECHANICAL ROOM	A-102	CONC	SEALED	CMU	PTD	CMU	PTD	CMU	PTD	CMU	PTD	-	--	EXP	PTD		
JANITOR	A-102A	CONC	SEALED	GWB	PTD	GWB	PTD	GWB	PTD	CMU	PTD	RB	1	EXP	PTD		
TOILET/SHOWER	A-103	CONC	CT	GWB	CT	GWB	CT	GWB	CT	GWB	CT	-	--	GWB	SPEC	10'-0"	
LAB	A-104	CONC	RESINOUS	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	RESINOUS	4	SAT	SPEC	10'-0"	
OFFICE	A-105	CONC	VCT	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	RB	1	SAT	SPEC	10'-0"	

LOUVER SCHEDULE

LOUVER NUMBER	ROOM NAME	R.O. SIZE		TYPE	PERFORMANCE	DEPTH	MATERIAL	FINISH	DETAIL			NOTES
		WIDTH	HEIGHT						HEAD	JAMB	SILL	
LA-102	MECHANICAL	1'-4"	1'-4"	L1	VERTICAL BLADE WIND DRIVEN RAIN	6"	ALUM	SPEC	9/AD-1	10/AD-1	11/AD-1	

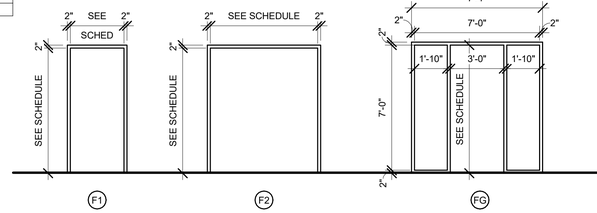
PARTITION TYPE



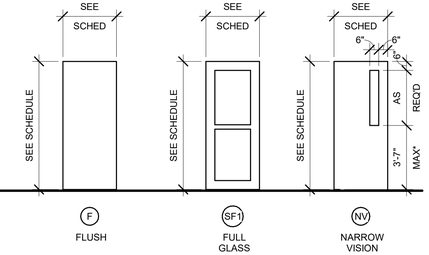
GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

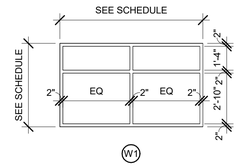
DOOR FRAME TYPES



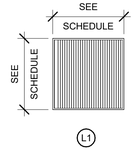
DOOR TYPES



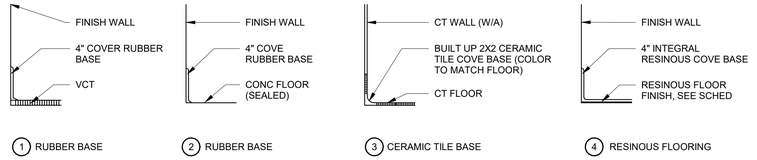
WINDOW TYPES



LOUVER TYPES



BASE DETAILS



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DRAWN BY: G. TRIANA
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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
SCHEDULES AND TYPES

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027782
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
A-12

ISSUED FOR BID

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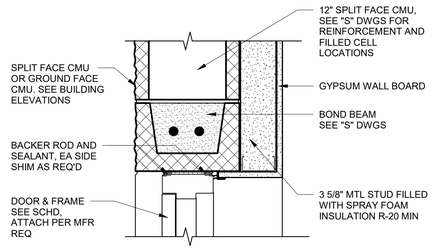
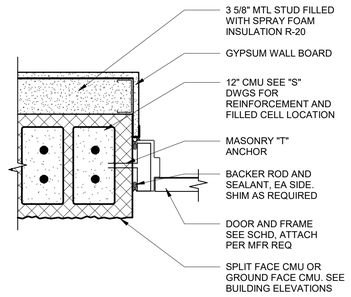
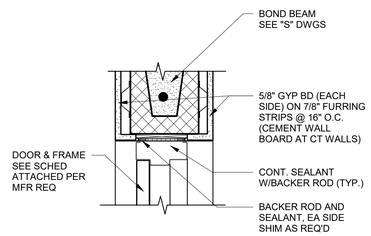


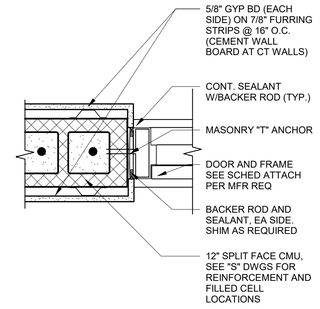
A DOOR HEAD
1 1/2" = 1'-0"



B DOOR JAMB
1 1/2" = 1'-0"



C INTERIOR DOOR HEAD
1 1/2" = 1'-0"

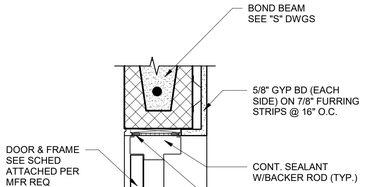


D INTERIOR DOOR JAMB
1 1/2" = 1'-0"

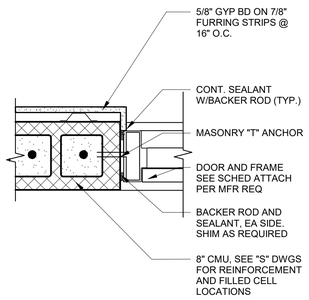
GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

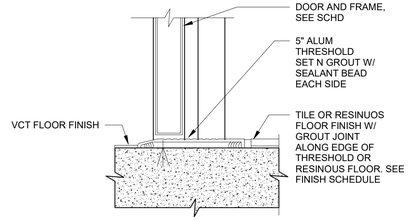
STRUCTURAL ITEMS SHOWN ON THIS SHEET ARE FOR GRAPHICAL PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC LOCATIONS A DETAILED REQUIREMENTS



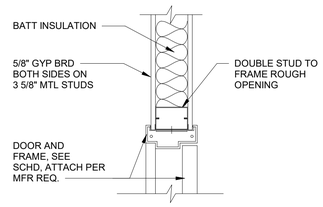
F INTERIOR DOOR HEAD
1 1/2" = 1'-0"



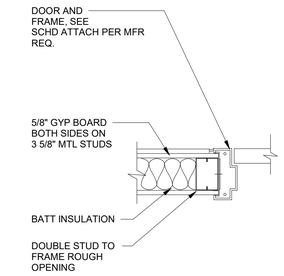
G INTERIOR DOOR JAMB
1 1/2" = 1'-0"



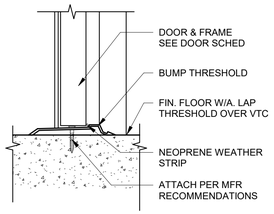
H INTERIOR THRESHOLD
1 1/2" = 1'-0"



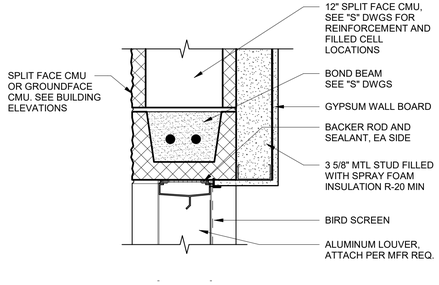
I PARTITION DOOR HEAD
1 1/2" = 1'-0"



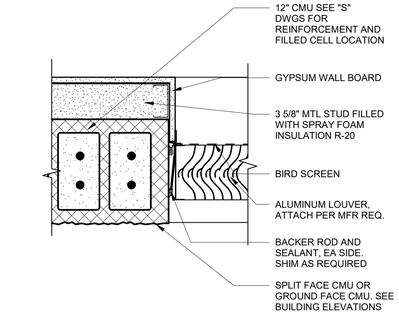
J PARTITION DOOR JAMB
1 1/2" = 1'-0"



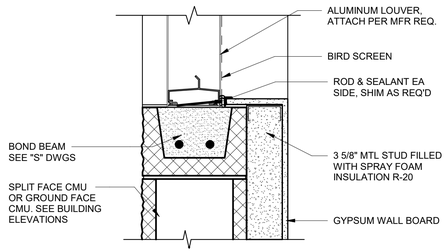
K THRESHOLD
1 1/2" = 1'-0"



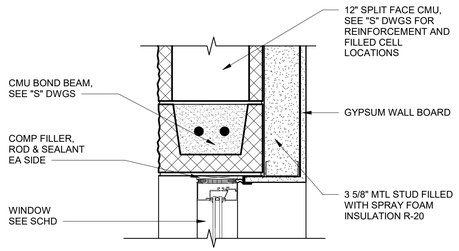
L LOUVER HEAD
1 1/2" = 1'-0"



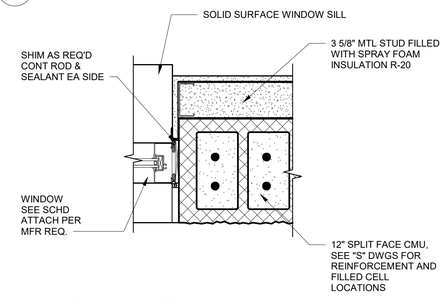
M LOUVER JAMB
1 1/2" = 1'-0"



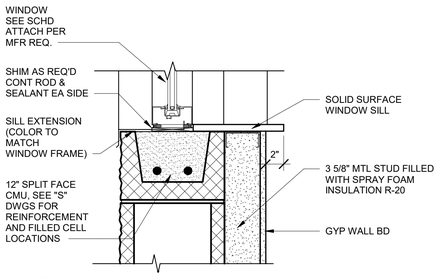
N LOUVER SILL
1 1/2" = 1'-0"



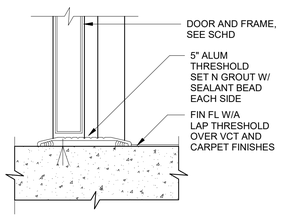
O WINDOW HEAD
1 1/2" = 1'-0"



P WINDOW JAMB
1 1/2" = 1'-0"



Q WINDOW SILL
1 1/2" = 1'-0"



R THRESHOLD
1 1/2" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. TRIANA
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: C. SOLLOG
APPROVED BY: M. ALFORD
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
DETAILS I

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 027382
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
AD-1

ISSUED FOR BID

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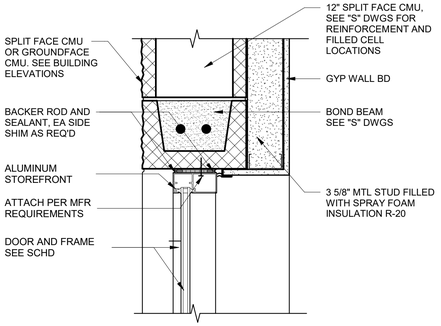
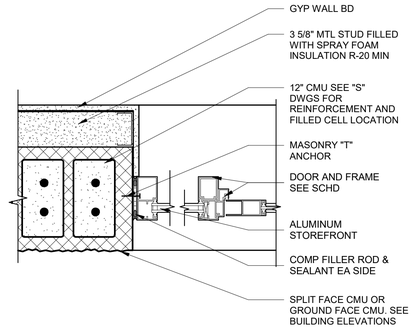
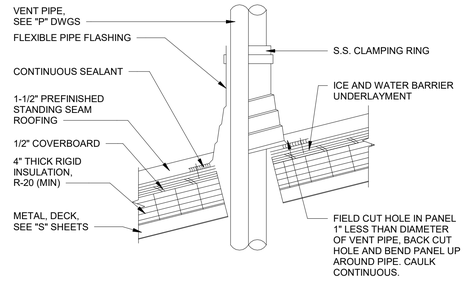


A STOREFRONT DETAIL HEAD
1 1/2" = 1'-0"



B STOREFRONT DETAIL JAMB
1 1/2" = 1'-0"

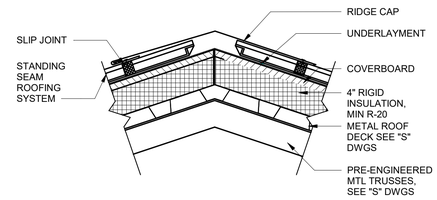


C ROOF VENT DETAIL
1 1/2" = 1'-0"

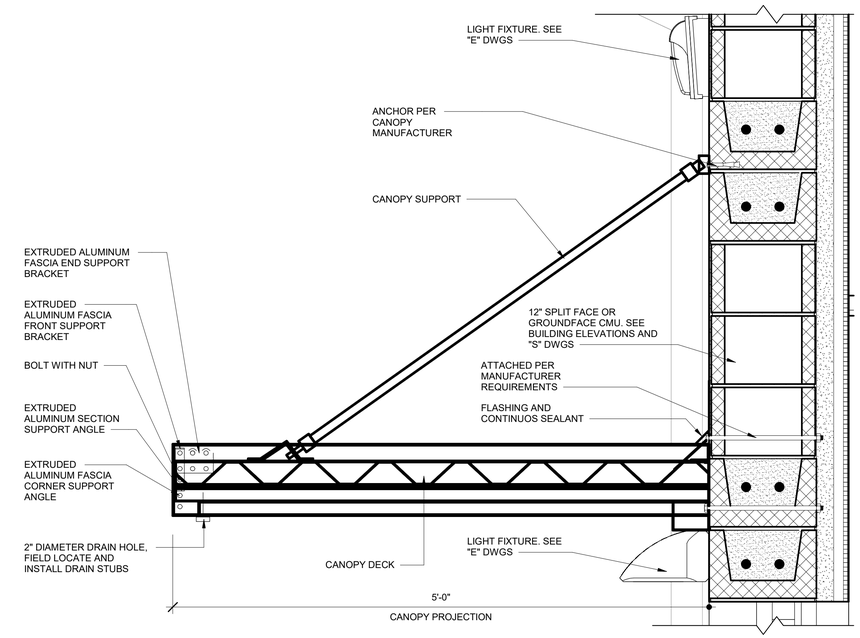
GENERAL NOTES

SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES

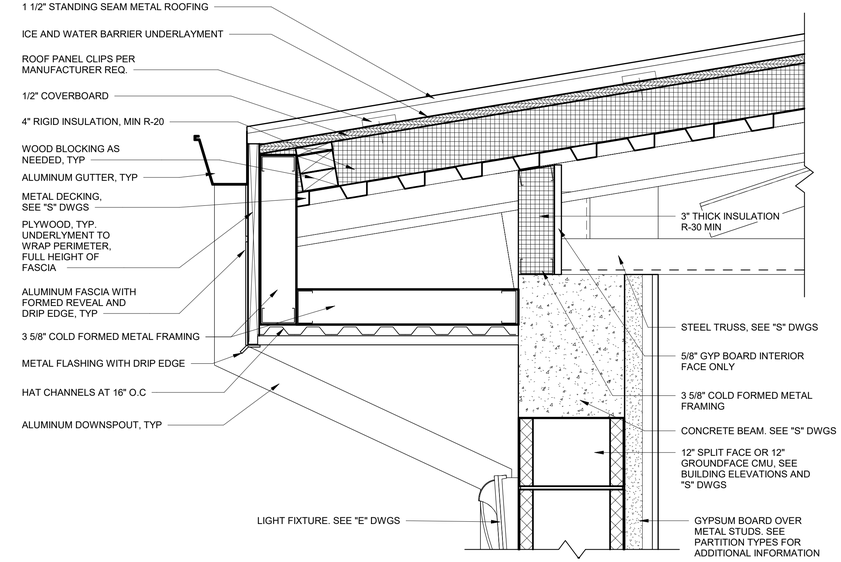
STRUCTURAL ITEMS SHOWN ON THIS SHEET ARE FOR GRAPHICAL PURPOSES ONLY. REFER TO STRUCTURAL DRAWINGS FOR SPECIFIC LOCATIONS A DETAILED REQUIREMENTS



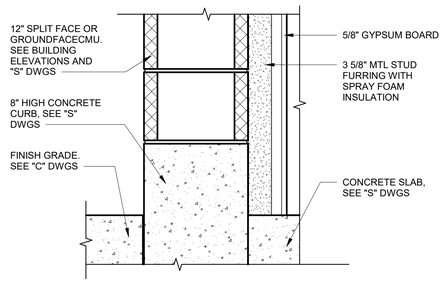
D RIDGE CAP
1 1/2" = 1'-0"



E DOOR CANOPY
1 1/2" = 1'-0"



F EAVE AND GUTTER
1 1/2" = 1'-0"



G WALL BASE
1 1/2" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. TRIANA
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: C. SOLLOG
APPROVED BY: M. ALFORD
DATE: JULY 2025

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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
DETAILS II

CDM Architects Inc.
101 Southhall Lane
Suite 200
Maitland, Florida 32751

STATE OF GEORGIA
MICHAEL T. ALFORD
CERTIFICATE NO. 0 027282
REGISTERED ARCHITECT

PROJECT NO. 20790-289282
FILE NAME:

SHEET NO.
AD-2

ISSUED FOR BID

PROCESS PIPE IDENTIFICATION

PROCESS FLOW STREAMS

BYP	BYPASS
CA	CARBONIC ACID SOLUTION
CO2	CARBON DIOXIDE (GAS)
D, DR	SANITARY DRAIN
FA	FOUL AIR
FL	HYDROFLUOSILICIC ACID
FM	FORCE MAIN
FW	FINISHED WATER
IRR	IRRIGATION
NAOH	SODIUM HYDROXIDE
PHOS	BLENDED PHOSPHATES
PW	POTABLE WATER
RECIRC	RECIRCULATION
RW	RAW WATER
SHC	SODIUM HYPOCHLORITE
TW	TREATED WATER
SPL	SAMPLE

PIPE MATERIALS

CI	CAST IRON
CPVC	CHLORINATED POLYVINYL CHLORIDE (SCH 80 UON)
CU	COPPER
DI	DUCTILE IRON
FRP	FIBERGLASS REINFORCED PLASTIC
GS	GALVANIZED STEEL
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PVC	POLYVINYL CHLORIDE PRESSURE PIPE (SCH 80 UON)
POLYP	POLYPROPYLENE
SST304	304 STAINLESS STEEL
SST316	316L STAINLESS STEEL
STL	CARBON STEEL

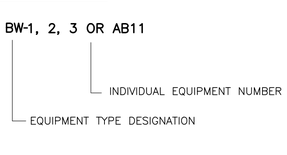
PIPE JOINTS

FLG	FLANGE
MJ	MECHANICAL JOINT
PE	PLAIN END

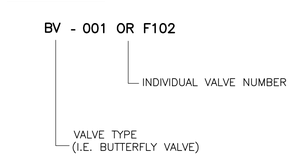
VALVES

ARV	AIR RELEASE VALVE
AVV	AIR VACUUM VALVE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BV	BALL VALVE
CAV	COMBINATION AIR VALVE
CV	CHECK VALVE
GLV	GLOBE VALVE
GV	GATE VALVE
PRV	PRESSURE REGULATING VALVE
SV	SOLENOID VALVE

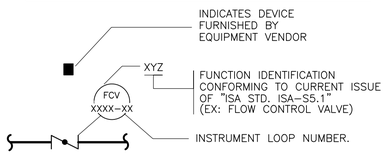
EQUIPMENT TAG



VALVE TAG



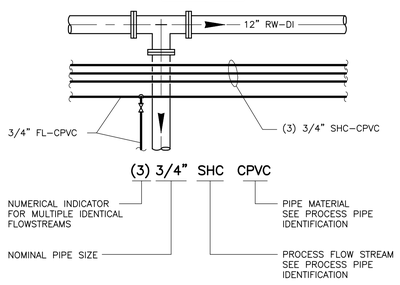
PROCESS VALVE LOOP IDENTIFICATION



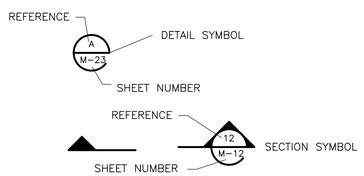
MECHANICAL DRAWINGS SHOW ONLY PRIMARY INSTRUMENT ELEMENTS. FOR ADDITIONAL DETAILS REFER TO INSTRUMENTATION SPECIFICATIONS.

TYPICAL INSTRUMENTATION AND LOOP TAG

PIPE TAG



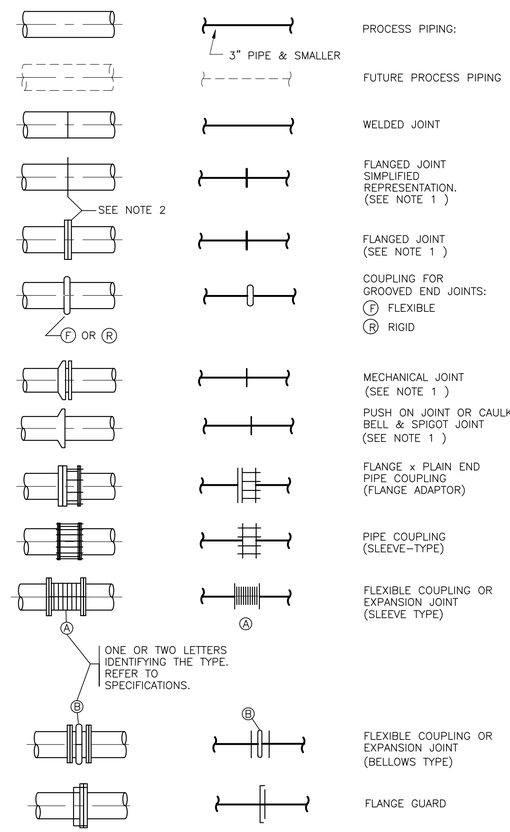
MISCELLANEOUS SYMBOLS



LEGENDS SYMBOLS AND ABBREVIATIONS SHOWN ON SHEETS M-1 INDICATE STANDARD SYMBOLS AND ABBREVIATIONS AND ARE PERTINENT TO THE CONDITIONS ON THIS SET OF DRAWINGS TO THE EXTENT APPLICABLE.

ADDITIONAL LEGENDS AND/OR ABBREVIATIONS MAY APPEAR IN THIS SET OF DRAWINGS TO INDICATE SPECIFIC CONDITIONS.

PIPE AND FITTING SYMBOLS



PIPE AND FITTING SYMBOLS NOTES:

1. GENERIC JOINT SYMBOL IS USED FOR ALL SINGLE LINE PIPING SHOWN ON THE INTERIOR AND EXTERIOR PIPING DRAWINGS.
2. BOTH, DETAILED AND SIMPLIFIED FLANGE REPRESENTATION SYMBOLS MAY BE SHOWN ON THE DRAWINGS.
3. UNLESS MODIFIED BY THE GENERAL PROJECT NOTES OR DETAILED ON THE LAYOUT AND SCHEMATIC DRAWINGS, PIPE AND FITTING JOINT REQUIREMENTS FOR THE VARIOUS PIPE MATERIALS ARE DEFINED IN THE SPECIFICATIONS AND ARE INDICATED ON THE PROCESS PIPE SCHEDULES.

GENERAL NOTES

1. PROCESS EQUIPMENT DIMENSIONS, LOCATIONS AND PIPING SYSTEM LAYOUTS ARE BASED ON EQUIPMENT SELECTED AND SPECIFIED BY THE DESIGN ENGINEER. IF THE CONTRACTOR PROPOSES TO FURNISH EQUIPMENT THAT REQUIRES AN ARRANGEMENT OR SPACE DIFFERING FROM THAT INDICATED ON THE DRAWINGS OR SPECIFIED, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AND OWNER FOR APPROVAL DETAILED STRUCTURAL, MECHANICAL, PLUMBING, INSTRUMENTATION, AND ELECTRICAL DRAWINGS AND EQUIPMENT LISTS SHOWING ALL NECESSARY CHANGES AND EMBODYING ALL FEATURES OF THE EQUIPMENT AND/OR THIS INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO PROCESS SYSTEM PROPOSED AT NO ADDITIONAL COST TO THE OWNER. PLANS, SECTIONS, DETAILS AND SCHEMATICS OF ALL APPURTENANCES REQUIRED.
2. SIZES OF EQUIPMENT FOUNDATIONS AND EQUIPMENT PADS INDICATED ON THE DRAWINGS ARE APPROXIMATE. EXACT DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FOR THE EQUIPMENT FURNISHED. ALL FLOOR MOUNTED EQUIPMENT SHALL BE SET ON CONCRETE PADS CONFORMING TO DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND LENGTHS REQUIRED FOR ALL PIPING CONNECTIONS WITH THE EQUIPMENT SUPPLIERS.
4. EXTERIOR BURIED PIPING IS SHOWN ON THE CIVIL DRAWINGS.
5. WATER SUPPLY CONNECTIONS TO PROCESS EQUIPMENT AND PROCESS PIPES ARE SHOWN ON THE MECHANICAL DRAWINGS. DETAILS OF CONTROL VALVE STATIONS, MAKE-UP WATER CONNECTIONS, FLUSHING CONNECTIONS ETC. ARE SHOWN ON THE MECHANICAL DRAWINGS. IF APPLICABLE, LIMITS OF WORK ARE SHOWN ON THE MECHANICAL, INSTRUMENTATION, ELECTRICAL AND PLUMBING DRAWINGS.
6. DIELECTRIC COUPLINGS, FLANGES OR UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS AND AS INDICATED ON DRAWINGS
7. MECHANICAL PLANS AND SECTIONS DO NOT SHOW ALL VALVES, GAUGES, SWITCHES, OPERATORS, DRAINS, VENTS, ETC. REQUIRED FOR THE COMPLETE SYSTEM. CERTAIN SMALL DIAMETER PROCESS PIPING RUNS MAY NOT BE SHOWN IN THEIR ENTIRETY. GENERALLY, SMALL PIPING IS SHOWN DIAGRAMMATICALLY IN THE INSTRUMENTATION DRAWINGS. SHOULD A POTENTIAL ROUTING INTERFERENCE BE DISCOVERED, NOTIFY ENGINEER AND OWNER. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL PIPING SYSTEMS AS INDICATED ON THE INSTRUMENTATION DRAWINGS TO PROVIDE THE COMPLETE SYSTEM.
8. UNLESS OTHERWISE SHOWN ON THE MECHANICAL DRAWINGS, ALL FLOORSLAB, WALL AND TANK PENETRATIONS SHALL BE AS SHOWN ON THE PENETRATION DETAILS INCLUDED IN THE MECHANICAL CONSTRUCTION DETAILS. ABOVE GROUND EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
9. STANDARD PIPE SUPPORT DETAILS ARE PROVIDED IN THE MECHANICAL DETAIL DRAWINGS. SUPPORT PIPES IN ACCORDANCE WITH SPECIFICATION SECTION 400507, "HANGERS AND SUPPORTS FOR PROCESS PIPING.
10. ALL EQUIPMENT BASES AND PIPING HAVING DRAIN OUTLETS SHALL BE PIPED TO THE NEAREST OPEN END DRAIN (OED) OR TRENCH DRAIN USING SCHEDULE 80 PVC PIPE OF APPROPRIATE DIAMETER AS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER.
11. ALL PIPES UNDER CONCRETE SLABS SHALL BE ENCASED IN CONCRETE AS DETAILED ON THE STRUCTURAL DRAWINGS.
12. PIPING SHALL BE INSTALLED SUCH THAT ANY PIPE, LAYER OF PIPING OR EQUIPMENT CAN BE REMOVED WITHOUT DISTURBING REMAINING PIPES AND SUPPORTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAGGING ALL PROCESS PIPING VALVES AND EQUIPMENT AND RECORDING AS-BUILT LOCATIONS FOR THE SAME. PROCESS IDENTIFICATION SYSTEM SHALL BE AS DETAILED IN THE SPECIFICATIONS.
14. ALL PIPING ENCASED IN CONCRETE SHALL HAVE MECHANICAL JOINTS AT ALL STRUCTURAL EXPANSION JOINTS.
15. PORTIONS OF NON-PROCESS PIPING (PLUMBING) ARE SHOWN FOR CLARITY AND FOR COORDINATION BETWEEN DISCIPLINES. REFER TO APPROPRIATE DRAWINGS AND SPECIFICATIONS.
16. CHEMICAL STORAGE TANK DETAILS SHOWN MAY VARY BY MANUFACTURER.
17. DURING THE STRESS TENSIONING OF THE TANK, ESTABLISH ZONED-OFF AREAS AROUND TANK AND INSTALL APPROPRIATE BARRIERS AS NEEDED TO PROTECT SURROUNDING STRUCTURES AND PERSONNEL IN THE EVENT OF A WIRE BREAK. TANK MANUFACTURER SHALL ADDRESS THE COMPLETE SAFETY REQUIREMENTS IN THEIR PROJECT SAFETY PLAN.
18. ALL BURIED PIPING TO BE RESTRAINED JOINT.
19. ALL EXPOSED PIPING 4" AND SMALLER ARE TO BE INSULATED AND ARMORED. SEE SPECIFICATIONS FOR MORE DETAILS.
20. MAKE ALL EQUIPMENT PADS 6 INCHES ABOVE FINISHED FLOOR UON.

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

MECHANICAL GENERAL NOTES AND LEGEND

PROJECT NO. 20790-289282
FILE NAME: M001NTLG.DWG
SHEET NO. M-1

ISSUED FOR BID

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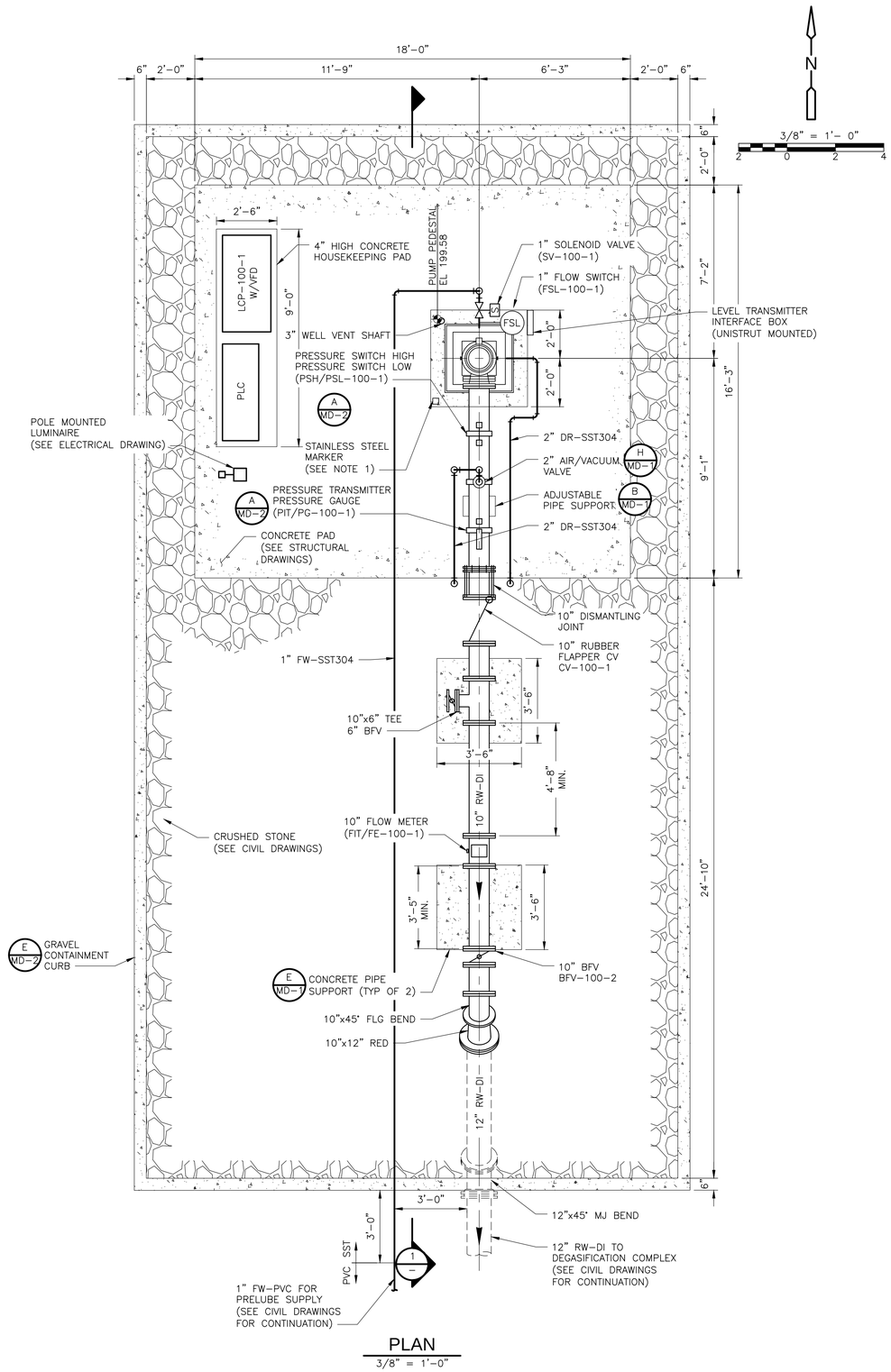
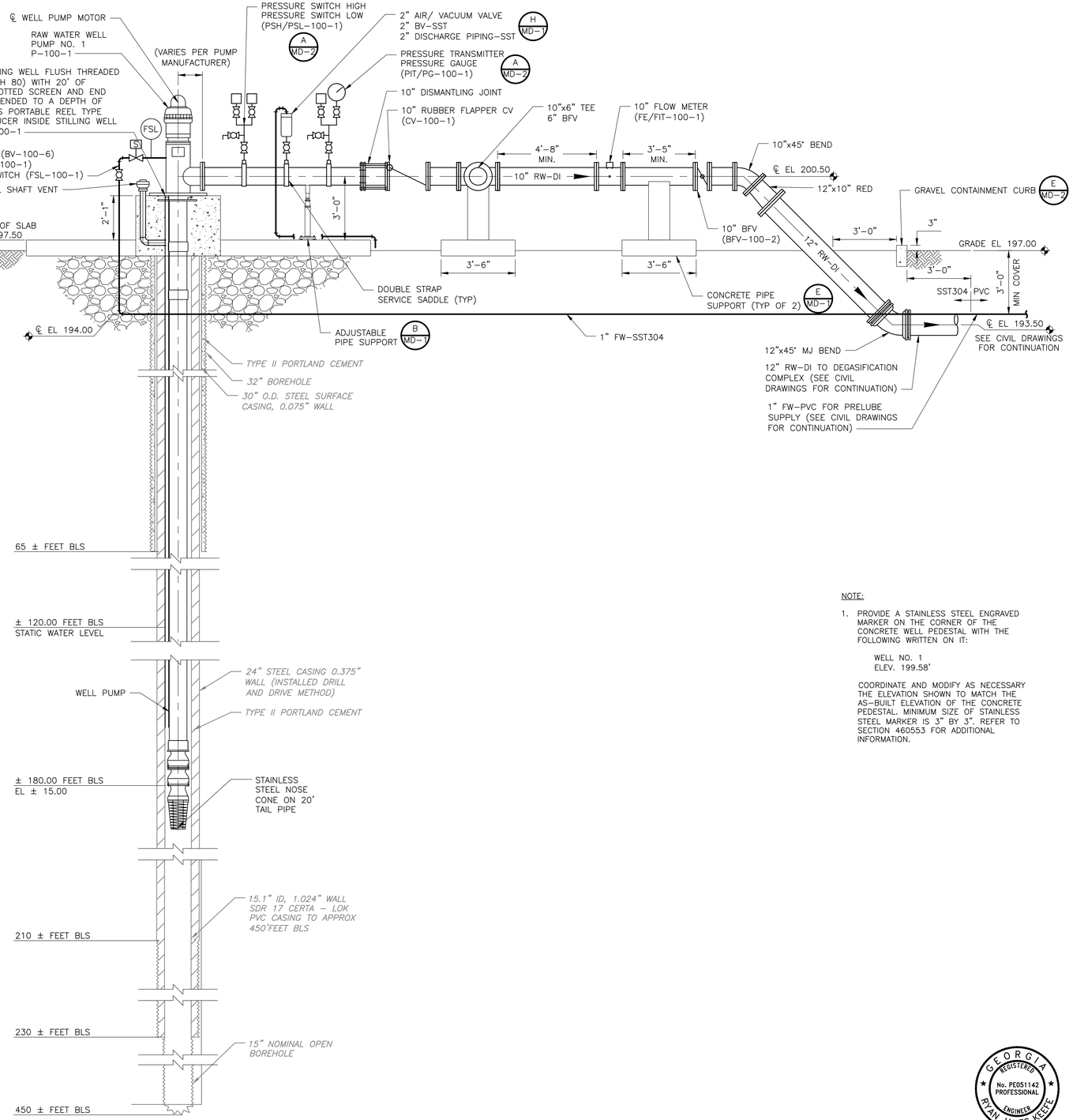


PLAN

3/8" = 1'-0"



SECTION

3/8" = 1'-0"

1
—

NOTE:

1. PROVIDE A STAINLESS STEEL ENGRAVED MARKER ON THE CORNER OF THE CONCRETE WELL PEDESTAL WITH THE FOLLOWING WRITTEN ON IT:

   WELL NO. 1
   ELEV. 199.58'

   COORDINATE AND MODIFY AS NECESSARY THE ELEVATION SHOWN TO MATCH THE AS-BUILT ELEVATION OF THE CONCRETE PEDESTAL. MINIMUM SIZE OF STAINLESS STEEL MARKER IS 3" BY 3". REFER TO SECTION 460553 FOR ADDITIONAL INFORMATION.

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: G. KABIL
SHEET CHK'D BY: A. MASSAIS
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

WELL NO. 1
PLAN AND SECTION

PROJECT NO. 20790-289282
FILE NAME: M002WSPS.DWG

SHEET NO.
M-2

ISSUED FOR BID

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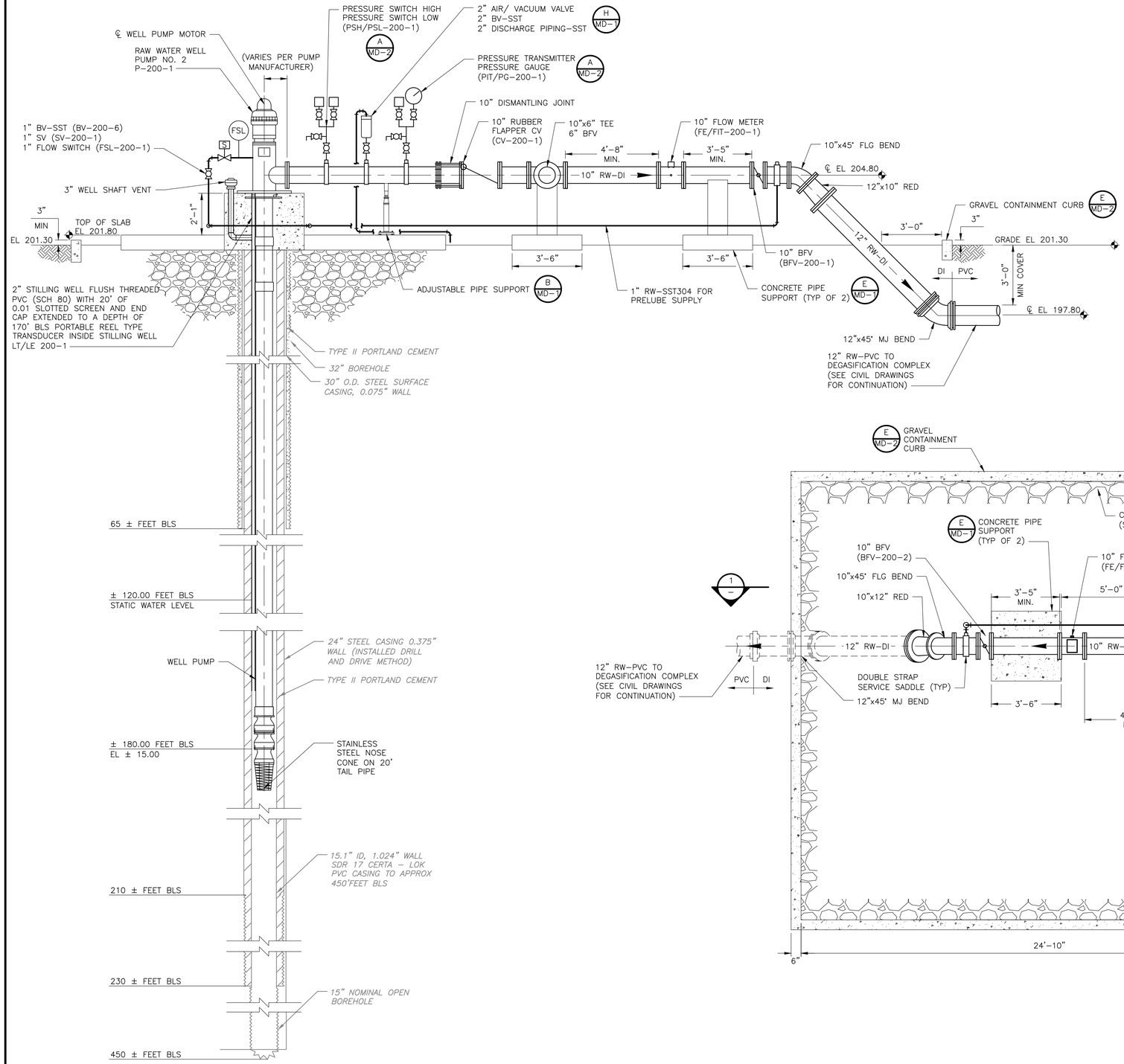


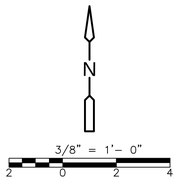
SECTION 1
3/8" = 1'-0"

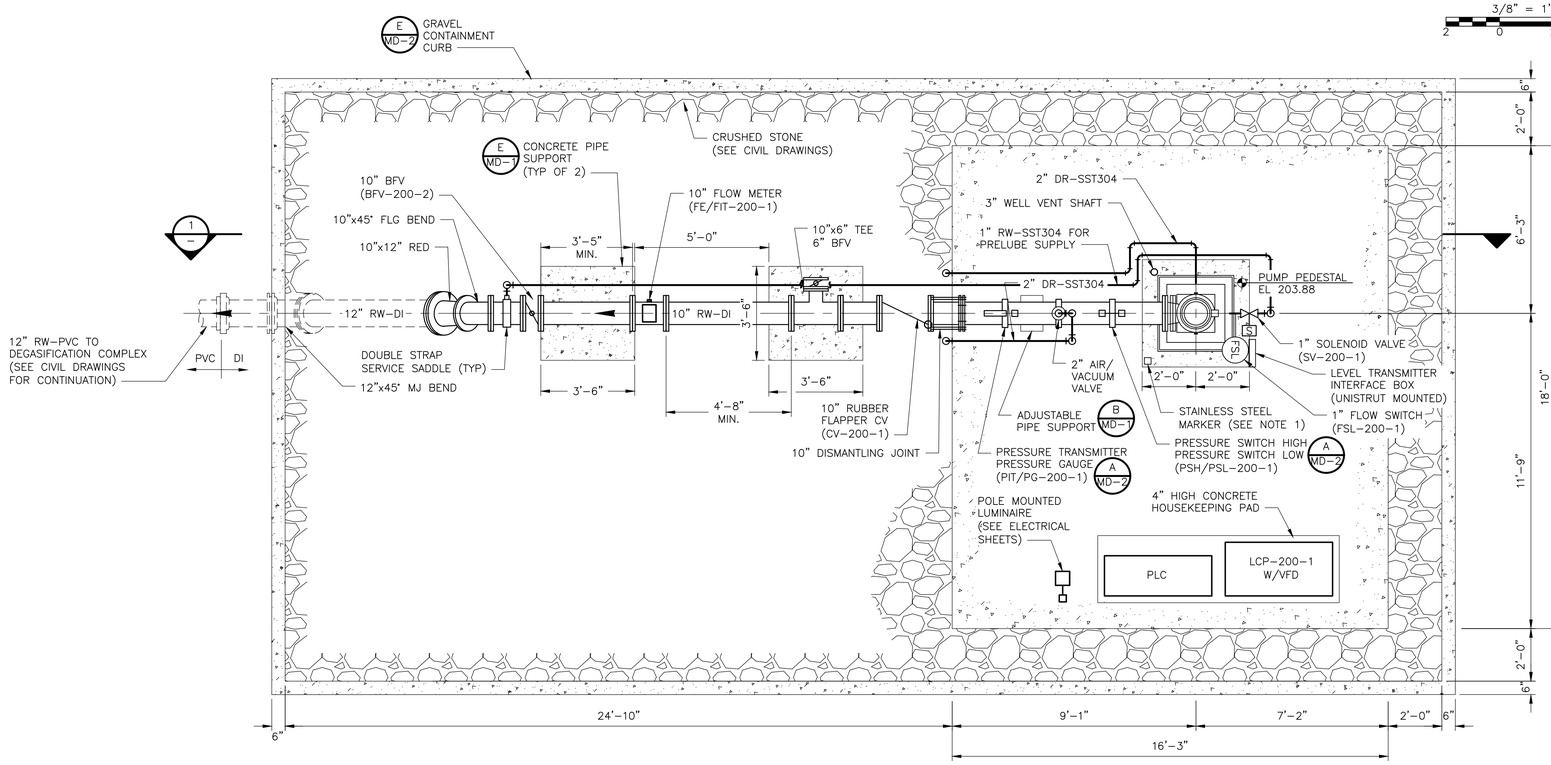
NOTE:

1. PROVIDE A STAINLESS STEEL ENGRAVED MARKER ON THE CORNER OF THE CONCRETE WELL PEDESTAL WITH THE FOLLOWING WRITTEN ON IT:

   WELL NO. 2
   ELEV. 203.88'

   COORDINATE AND MODIFY AS NECESSARY THE ELEVATION SHOWN TO MATCH THE AS-BUILT ELEVATION OF THE CONCRETE PEDESTAL. MINIMUM SIZE OF STAINLESS STEEL MARKER IS 3" BY 3". REFER TO SECTION 460553 FOR ADDITIONAL INFORMATION.





PLAN
3/8" = 1'-0"

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

WELL NO. 2
PLAN AND SECTION

PROJECT NO. 20790-289282
FILE NAME: M003WSPS.DWG
SHEET NO. M-3

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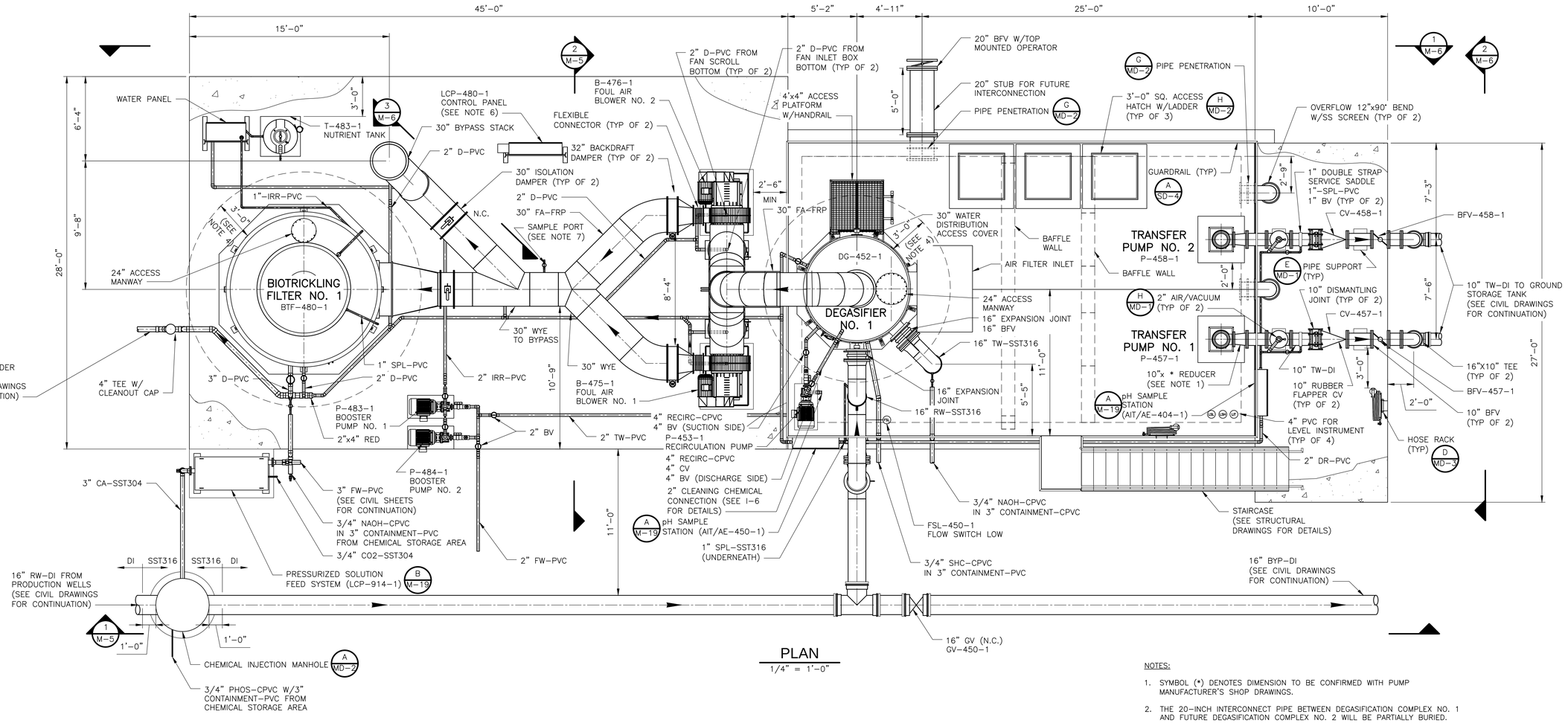

PLAN
1/4" = 1'-0"

N

1/4" = 1'- 0"
2 1 0 2 4

NOTES:

1. SYMBOL (*) DENOTES DIMENSION TO BE CONFIRMED WITH PUMP MANUFACTURER'S SHOP DRAWINGS.
2. THE 20-INCH INTERCONNECT PIPE BETWEEN DEGASIFICATION COMPLEX NO. 1 AND FUTURE DEGASIFICATION COMPLEX NO. 2 WILL BE PARTIALLY BURIED.
3. COORDINATE THE INSTALLATION OF THE HANDRAIL WITH THE INSTALLATION OF THE 16" RW-SST316 AND (2)-10" TW-DI SUCH THAT THE PIPE RUNS BETWEEN THE RAILS OF THE HANDRAIL.
4. SEE ELECTRICAL DRAWINGS FOR AREA CLASSIFICATION REQUIREMENTS.
5. ALL BURIED PIPING WITHIN 10' OF THE DEGASIFICATION COMPLEX NO. 1 STRUCTURE IS TO BE ENCASED. SEE DETAILS C/SD-2 FOR MORE INFORMATION. THE 20-INCH INTECONNECT PIPE IS EXCLUDED FROM THIS REQUIREMENT.
6. FOR EXTERIOR PANEL MOUNTED EQUIPMENT AND RACK CONSTRICTION, REFER TO STRUCTURAL DRAWINGS S-1 FOR WIND DESIGN REQUIREMENTS AND PROVIDE ANCHORAGE TO CONCRETE ACCORDINGLY.
7. PROVIDE A PORTABLE THERMAL ANEMOMETER FOR MEANS OF MEASURING VELOCITY THROUGH THE DUCT. SEE SPECIFICATIONS FOR MORE DETAILS.
8. THE 20" INTERCONNECT AND 16" RW-DI THAT BYPASSES THE DEGASIFIER UTILITZE WALL PIPES FOR PENETRATION. SEE DETAIL G/MD-2 FOR MORE INFORMATION.

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: D. ISLAS
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: C. SCHULZ
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

DEGASIFICATION COMPLEX NO. 1
PLAN

PROJECT NO. 20790-289282
FILE NAME: M004CLPL.DWG

SHEET NO.
M-4

ISSUED FOR BID

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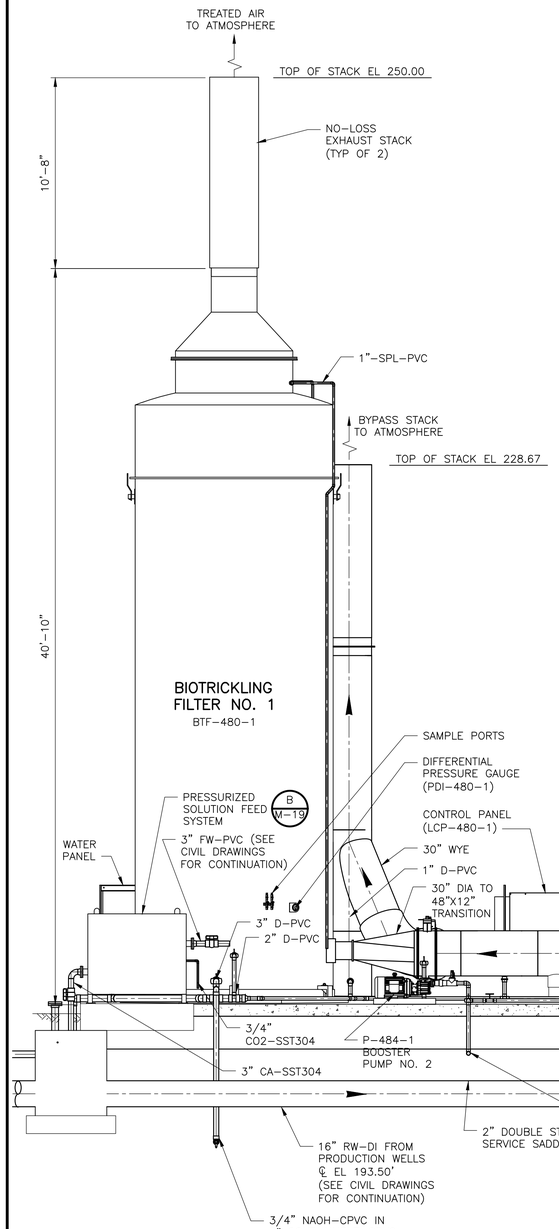
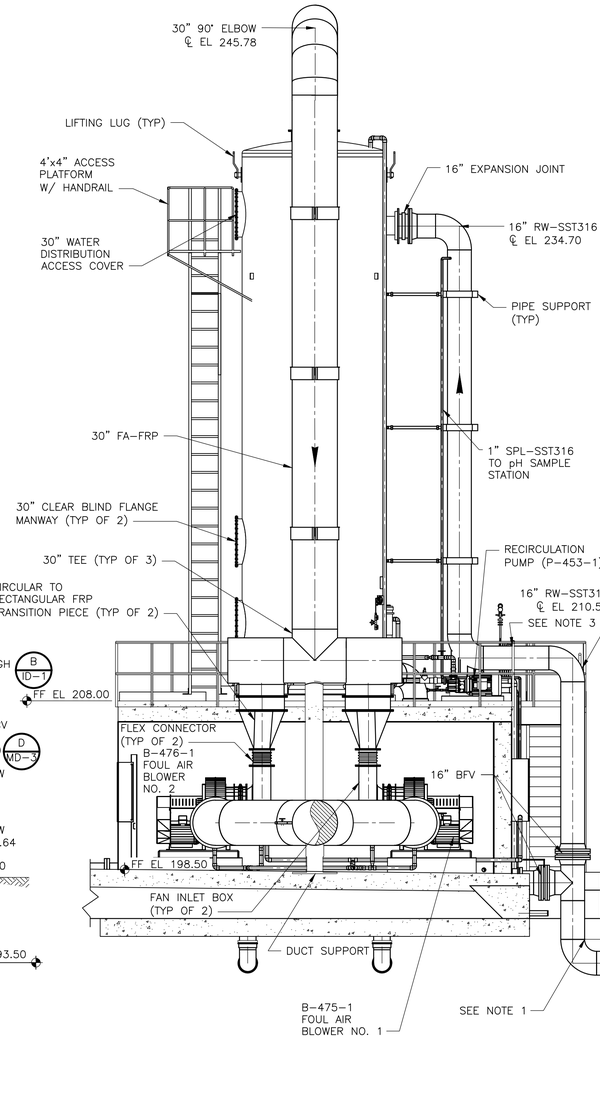


SECTION 1
1/4" = 1'-0"
M-4

1/4" = 1'- 0"
2 1 0 2 4



SECTION 2
1/4" = 1'-0"
M-4

NOTES:

1. INSTALL DIELECTRIC FITTING FOR DI TO SST TRANSITION. SEE DETAIL C/MD-2.
2. SYMBOL (*) DENOTES DIMENSION TO BE CONFIRMED WITH PUMP MANUFACTURER'S SHOP DRAWINGS.
3. COORDINATE THE INSTALLATION OF THE HANDRAIL BASIN WITH THE INSTALLATION OF THE 16" RW-SST316 AND (2)- 10" TW-DI SUCH THAT THE PIPE RUNS BETWEEN THE RAILS OF THE HANDRAIL.

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: D. ISLAS
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: C. SCHULZ
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

DEGASIFICATION COMPLEX NO. 1
SECTIONS I

PROJECT NO. 20790-289282
FILE NAME: M005CLSC.DWG
SHEET NO.
M-5

ISSUED FOR BID

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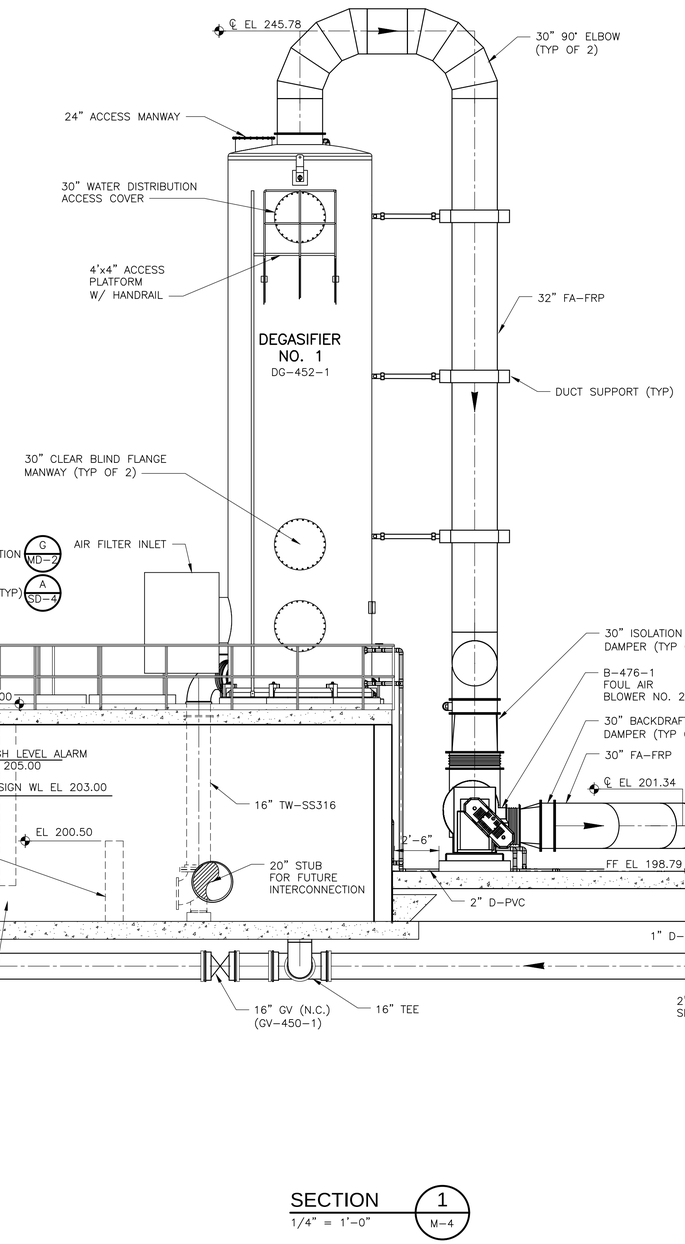
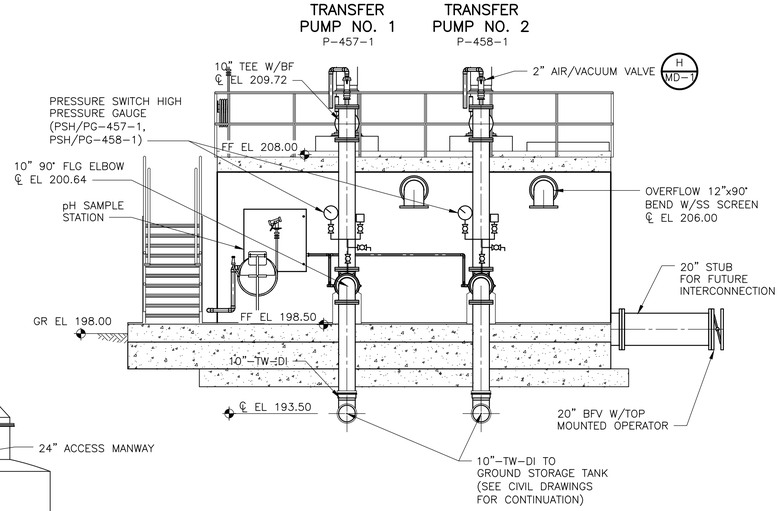
1/4" = 1'- 0"



SECTION 1
1/4" = 1'-0" — M-4



SECTION 2
1/4" = 1'-0" — M-4

SECTION 3
1/4" = 1'-0" — M-4

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: D. ISLAS
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: C. SCHULZ
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

DEGASIFICATION COMPLEX NO. 1
SECTIONS II

PROJECT NO. 20790-289282
FILE NAME: M006CLSC.DWG

SHEET NO.
M-6

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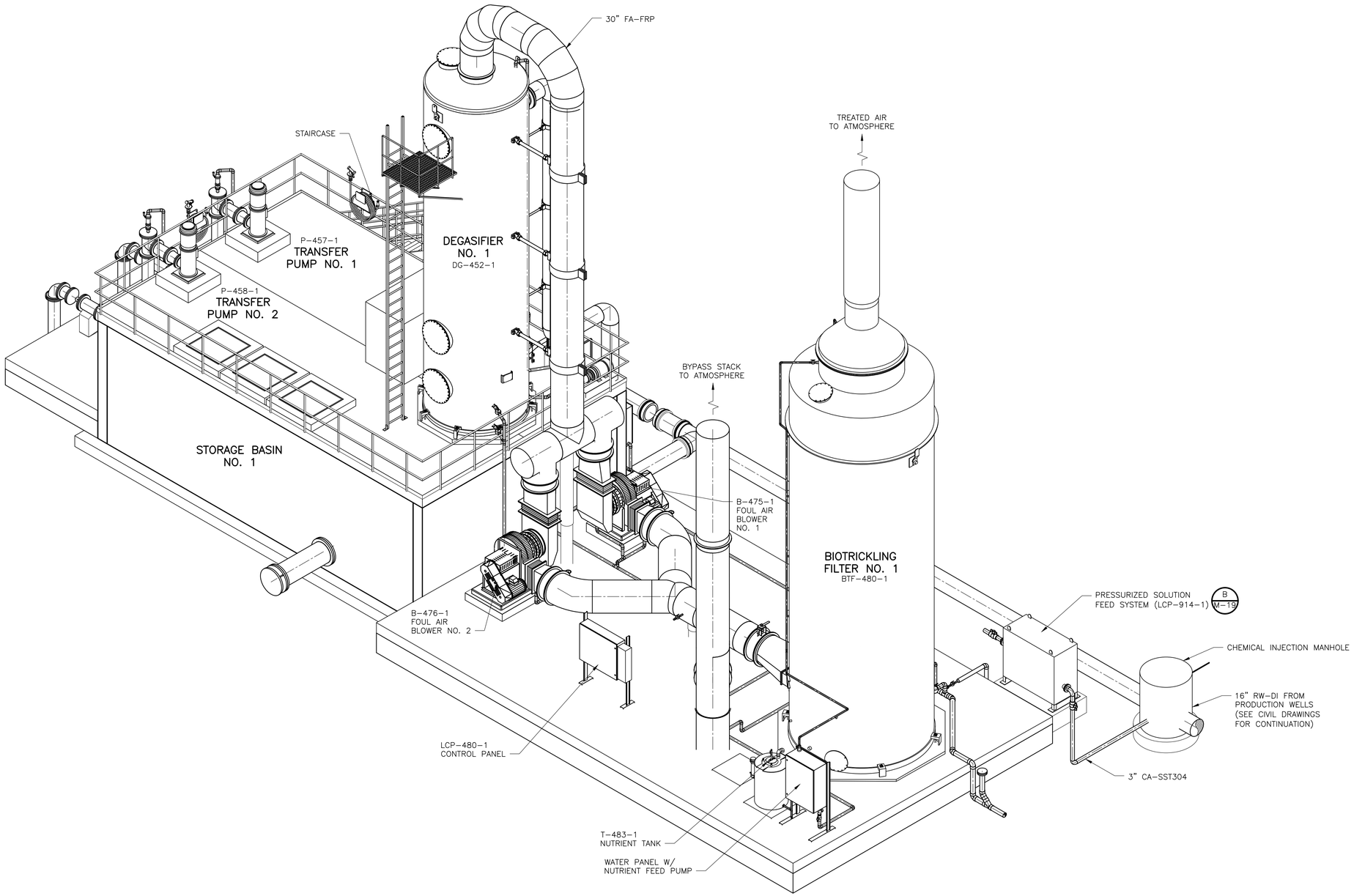

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: A. MANIMARAN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: C. SCHULZ
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

DEGASIFICATION COMPLEX NO. 1
ISOMETRIC

PROJECT NO. 20790-289282
FILE NAME: M007CWDT.DWG
SHEET NO.
M-7

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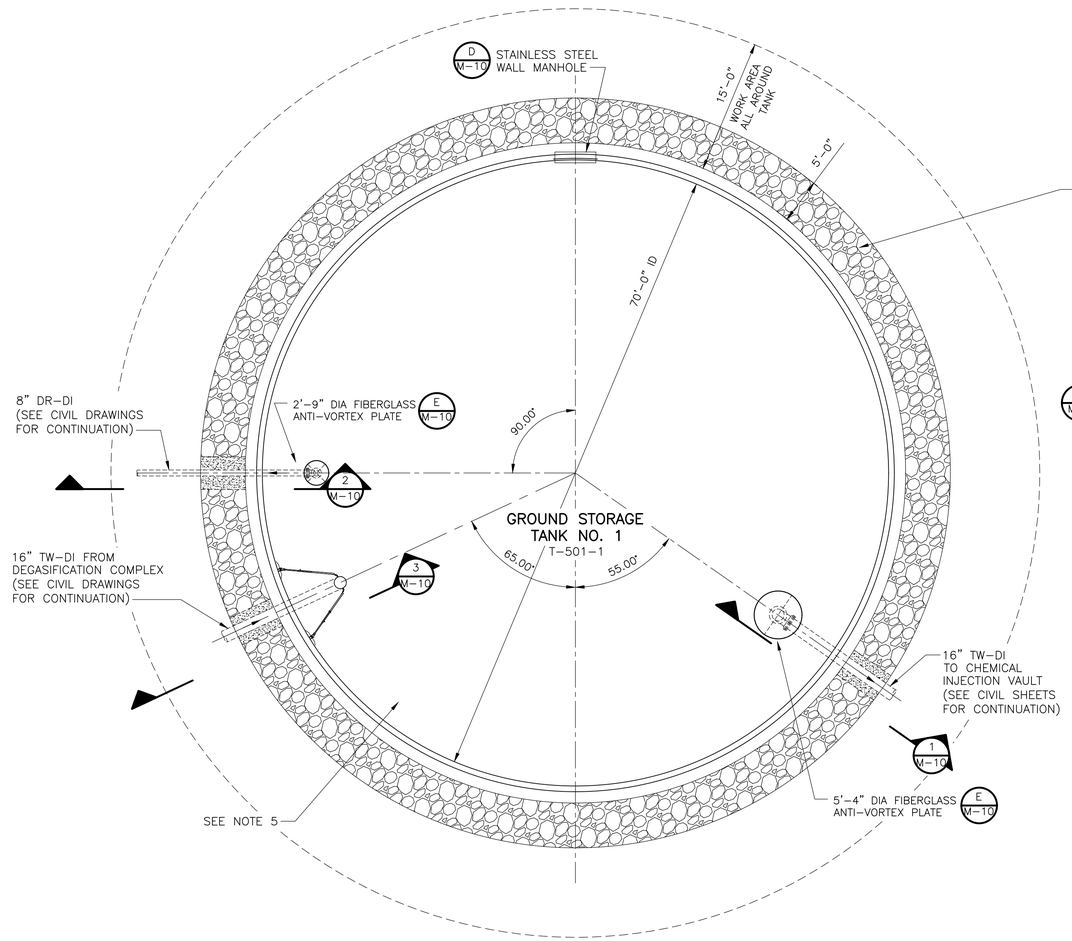
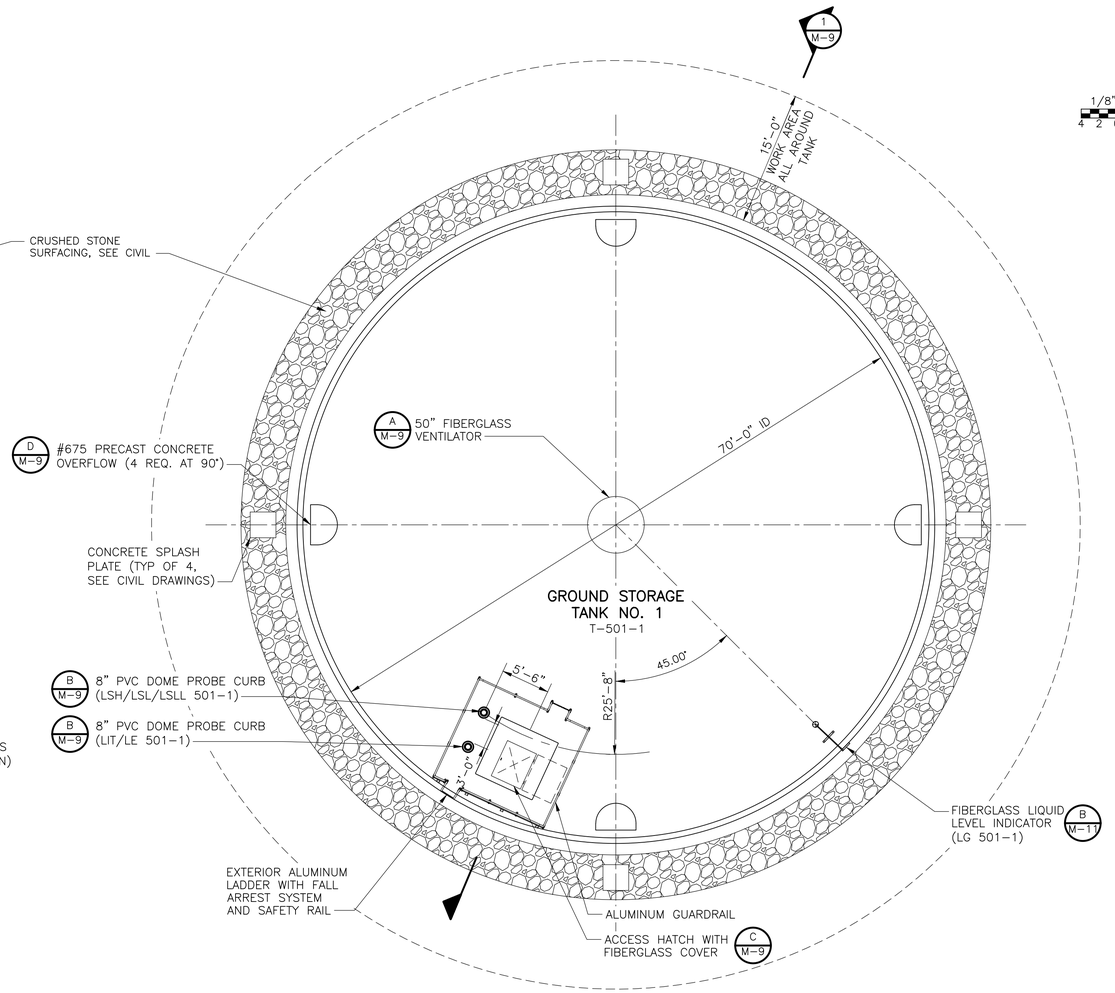


FLOOR PLAN
1/8" = 1'-0"



DOME PLAN
1/8" = 1'-0"

NOTES:

1. FIELD VERIFY LOCATION AND ORIENTATION OF ALL PIPES AND ACCESSORIES PRIOR TO PLACEMENT.
2. ALL PIPING BENEATH THE TANK AND TO 5 FT BEYOND THE TANK PERIMETER IS TO BE CONCRETE ENCASED.
3. POST-LOADING PROGRAM:
   - THE TANK CONTRACTOR SHALL ARRANGE FOR A LICENSED SURVEYOR TO MONITOR SETTLEMENT OF THE STRUCTURE TO A MINIMUM ACCURACY OF 0.01 FEET. SETTLEMENT SHALL BE MONITORED AT EIGHT EVENLY SPACED LOCATIONS ON THE TANK THREE TIMES A WEEK DURING THE POST-LOADING MONITORING PERIOD.
   - THE TANK CONTRACTOR SHALL POST-LOAD THE GROUND STORAGE TANK WITH WATER TO INDUCE TOTAL SETTLEMENT (ESTIMATED TO BE UP TO 2.5 IN) PRIOR TO MAKING PIPING CONNECTIONS AND PUTTING THE TANK INTO OPERATION.
   - THE GROUND STORAGE TANK SHALL BE FILLED WITH WATER IN 25% INCREMENTS UNTIL FULL AND BE PERMITTED TO SETTLE FOR A MINIMUM OF TWO WEEKS FOR EACH POST-LOADING INCREMENT. THE GEOTECHNICAL ENGINEER WILL REVIEW THE SETTLEMENT DATA PROVIDED BY THE TANK CONTRACTOR AND WILL PROVIDE WRITTEN CONFIRMATION OF WHEN THE TANK CONTRACTOR IS PERMITTED TO PROCEED TO THE NEXT POST-LOADING INCREMENT.
   - FOLLOWING COMPLETION OF THE POST-LOADING PROGRAM AS APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER, THE TANK CONTRACTOR MAY MAKE THE FINAL PIPING CONNECTIONS.
4. THE TANK SHALL BE CONSTRUCTED WITH APPURTENANCES TO ADD A BAFFLE CURTAIN IN THE FUTURE. SEE DETAIL D/M-11.
5. MAINTAIN A MINIMUM 15FT WIDE LEVEL WORK/ACCESS ROAD AROUND PERIMETER OF THE TANK DURING CONSTRUCTION.
6. CONTRACTOR SHALL VERIFY CETNER OF TANK WITH ENGINEER DURING SHOP DRAWING REVIEW PRIOR TO FINAL PIPE SETTING AND CONCRETE ENCASEMENT.

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: D. ISLAS
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GROUND STORAGE TANK PLAN

PROJECT NO. 20790-289282
FILE NAME: M008STPL.DWG

SHEET NO.
M-8

ISSUED FOR BID

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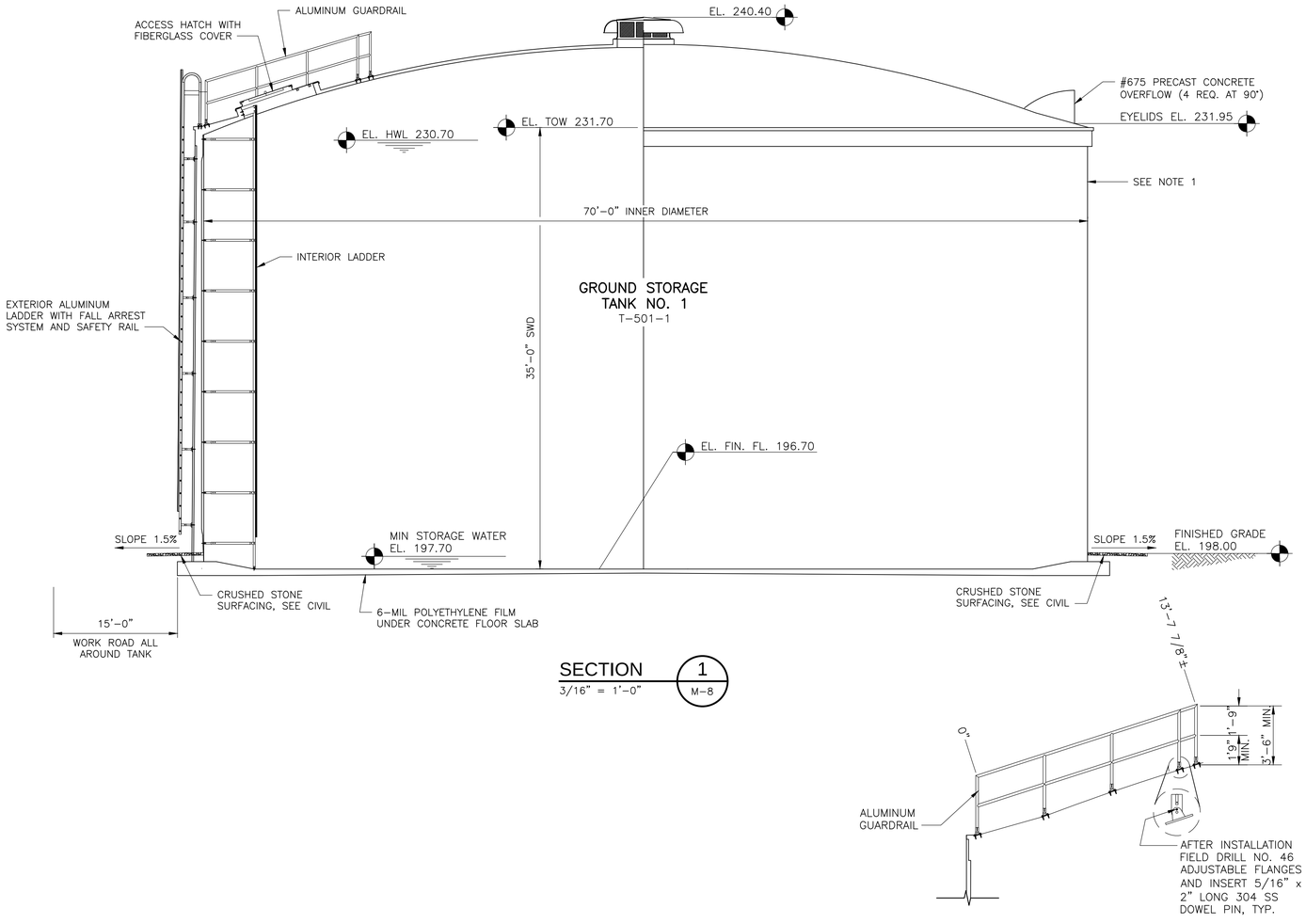
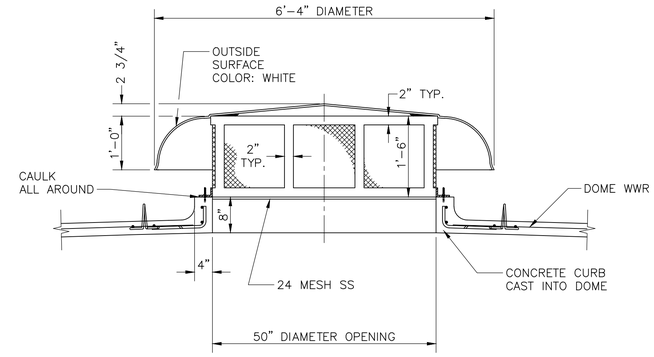


SECTION 1 / 3/16" = 1'-0" / M-8

3/16" = 1'-0"

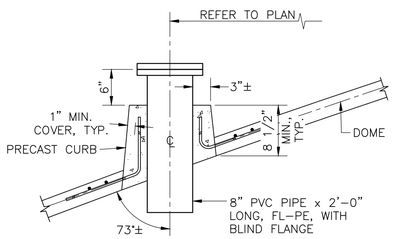
NOTE:

1. EXTERIOR COATINGS SHALL BE APPLIED AS DETAILED IN SPEC SECTION 434163.00.

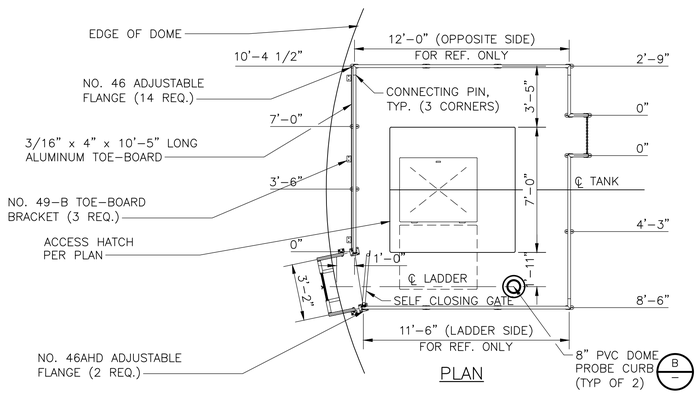


50" FIBERGLASS VENTILATOR DETAIL A / NTS / M-8

OPPOSITE SIDE ELEVATION

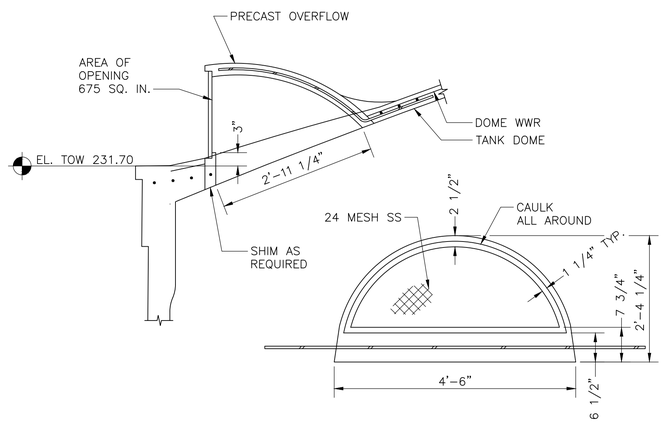


8" PVC DOME PROBE CURB DETAIL B / NTS / M-8



PLAN

ACCESS HATCH DETAIL C / NTS / M-8



#675 PRECAST CONCRETE OVERFLOW (4 REQ.) DETAIL D / NTS / M-8

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: D. ISLAS
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

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COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GROUND STORAGE TANK
SECTION AND DETAILS

PROJECT NO. 20790-289282
FILE NAME: M009STDT.DWG
SHEET NO. M-9

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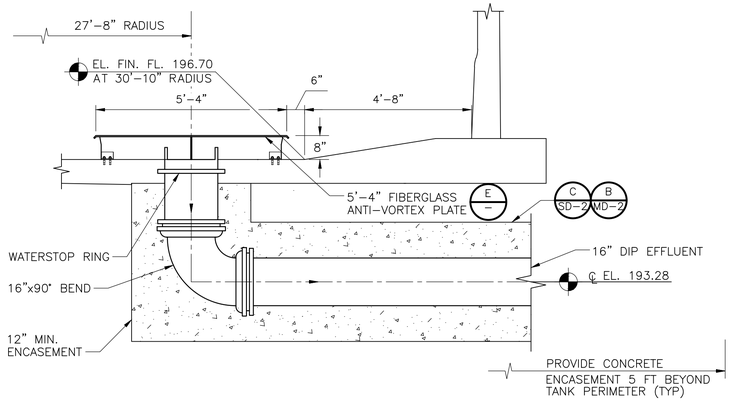
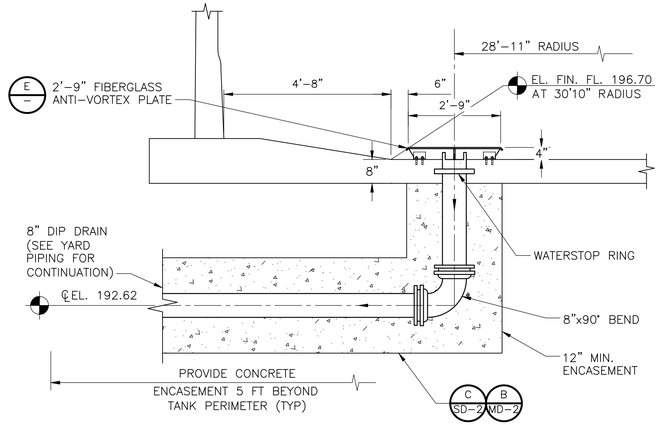


16" DIP EFFLUENT

SECTION 1 / M-8

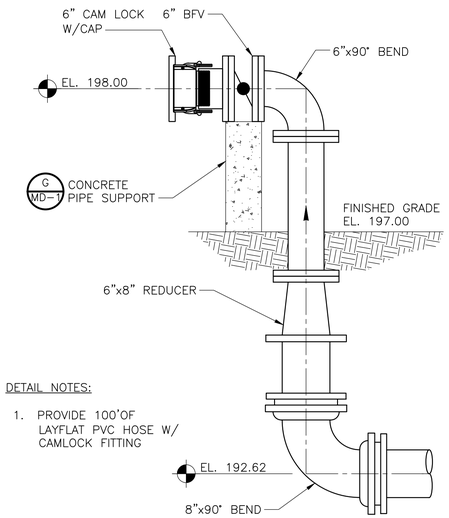
1/2" = 1'-0"



8" DIP DRAIN

SECTION 2 / M-8

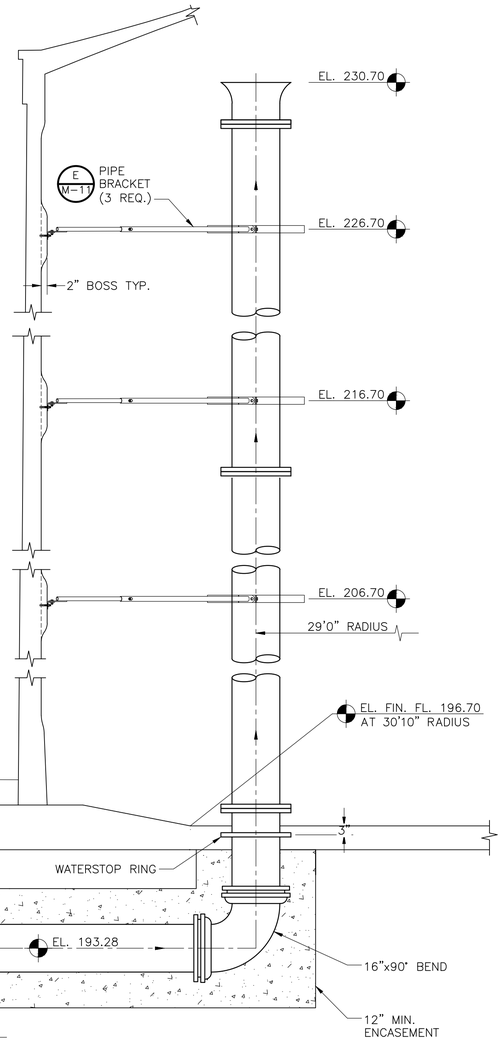
1/2" = 1'-0"



GST DRAIN AND CAM LOCK FOR HOSE HOOK-UP

DETAIL A / C-2

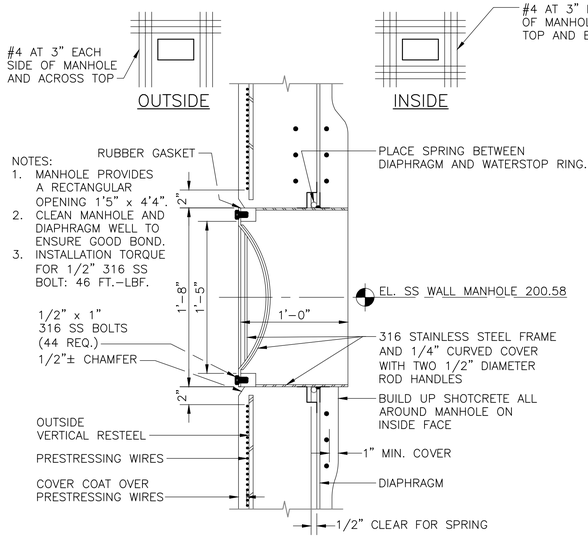
1" = 1'-0"



16" DIP INFLUENT

SECTION 3 / M-7

1/2" = 1'-0"



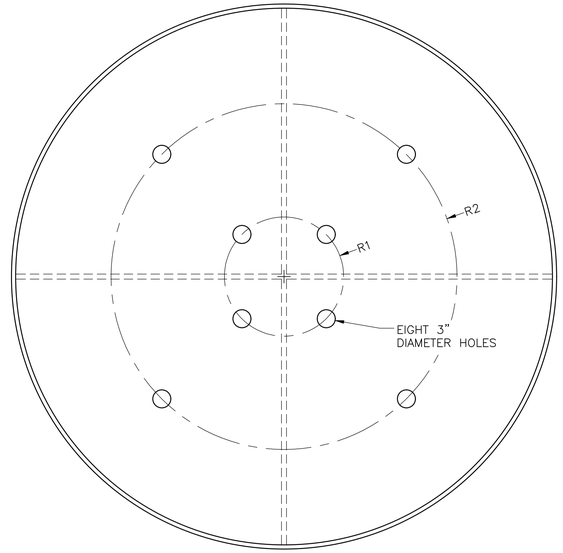
ELEVATION

PLAN

STAINLESS STEEL WALL MANHOLE

DETAIL D / M-8

NTS



PLAN

DETAIL NOTES:

1. R1 AND R2 TO BE DEFINED BY MANUFACTURER FOR EACH ANTI-VORTEX PLATE.

FIBERGLASS ANTI-VORTEX PLATE

DETAIL E / —

NTS

1" = 1'- 0"

.5 0 1

1/2" = 1'- 0"

1 0 1 2

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: D. ISLAS
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GROUND STORAGE TANK
SECTIONS AND DETAILS

PROJECT NO. 20790-289282
FILE NAME: M010STDT.DWG
SHEET NO.
M-10

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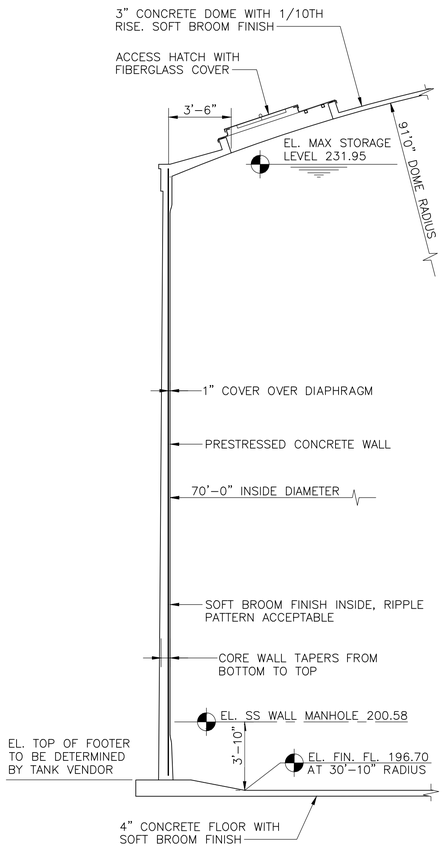
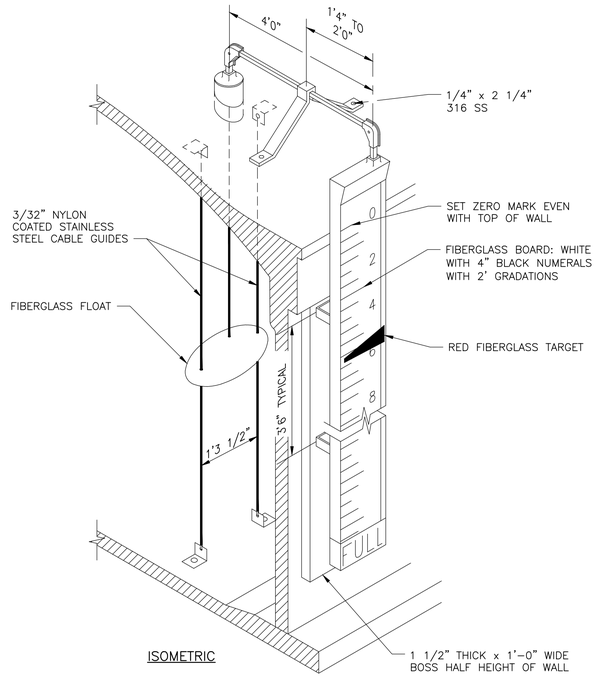


TYPICAL WALL SECTION

DETAIL A / –

NTS

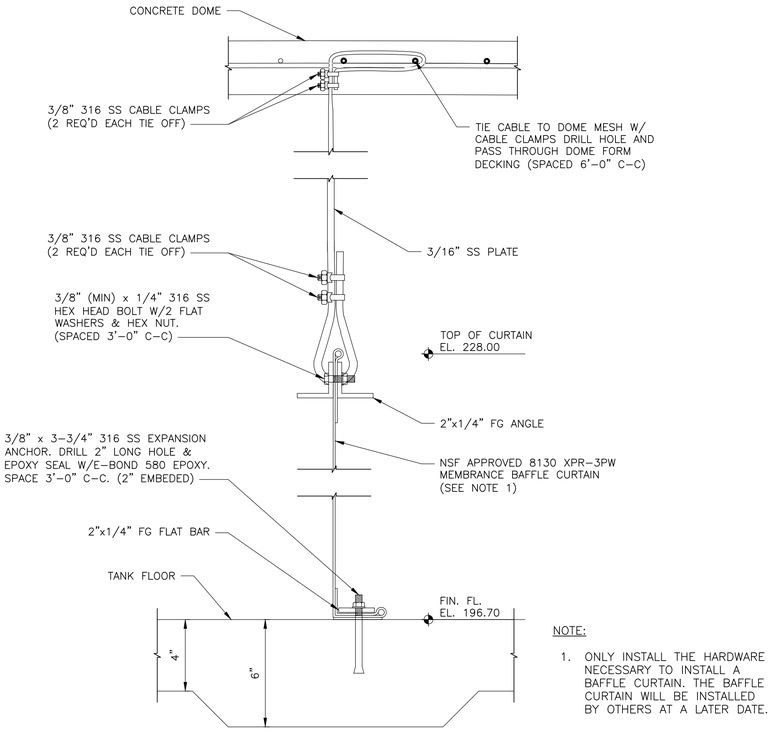


ISOMETRIC

FIBERGLASS LIQUID INDICATOR (LG 501-1)

DETAIL B / M-8

NTS



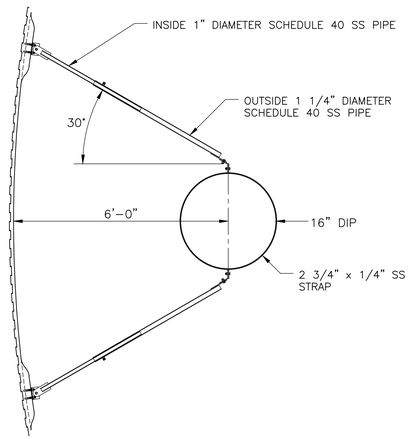
NOTE:

1. ONLY INSTALL THE HARDWARE NECESSARY TO INSTALL A BAFFLE CURTAIN. THE BAFFLE CURTAIN WILL BE INSTALLED BY OTHERS AT A LATER DATE.

BAFFLE CURTAIN FLOOR/DOME DETAILS

DETAIL D / M-8

NTS



PIPE BRACKET (3 REQ'D)

DETAIL E / M-10

NTS

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: D. ISLAS
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GROUND STORAGE TANK
DETAILS

PROJECT NO. 20790-289282
FILE NAME: M011STDT.DWG

SHEET NO.
M-11

ISSUED FOR BID

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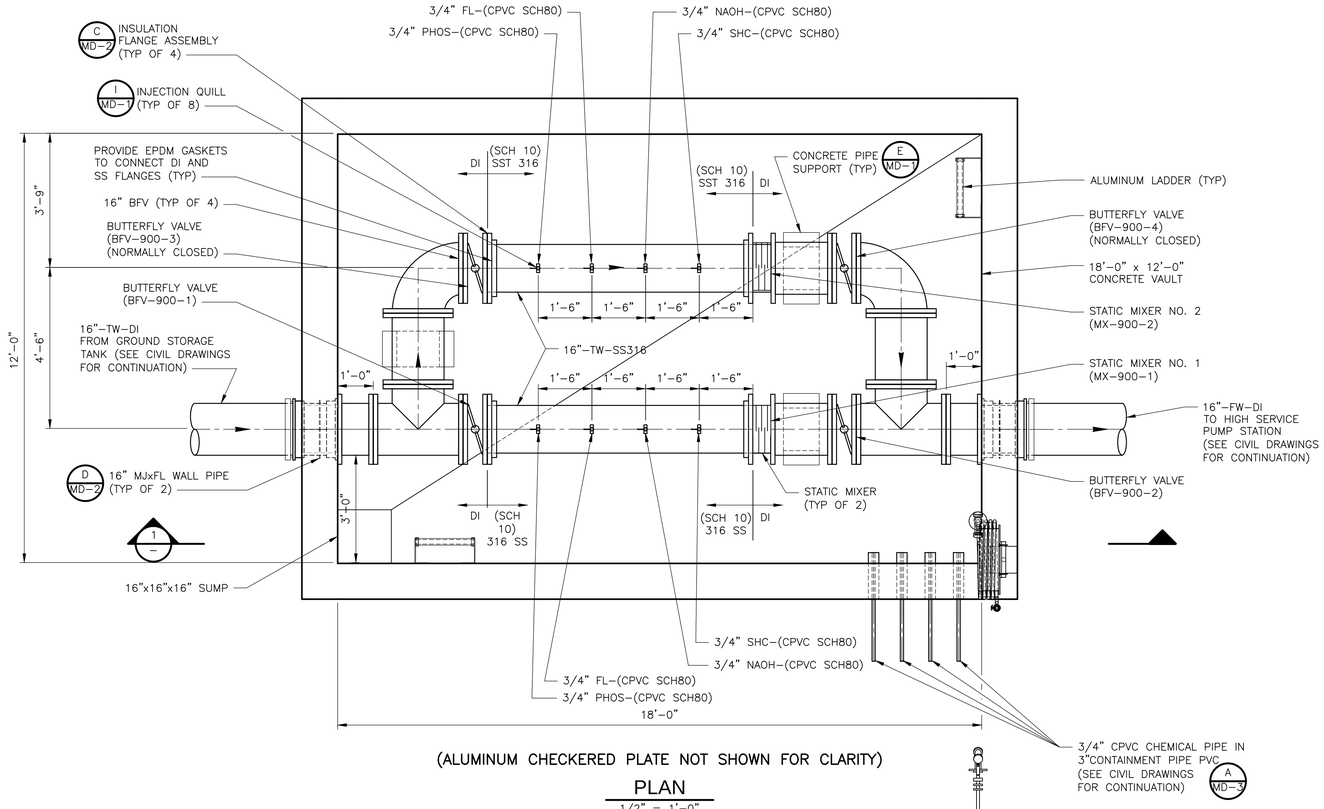
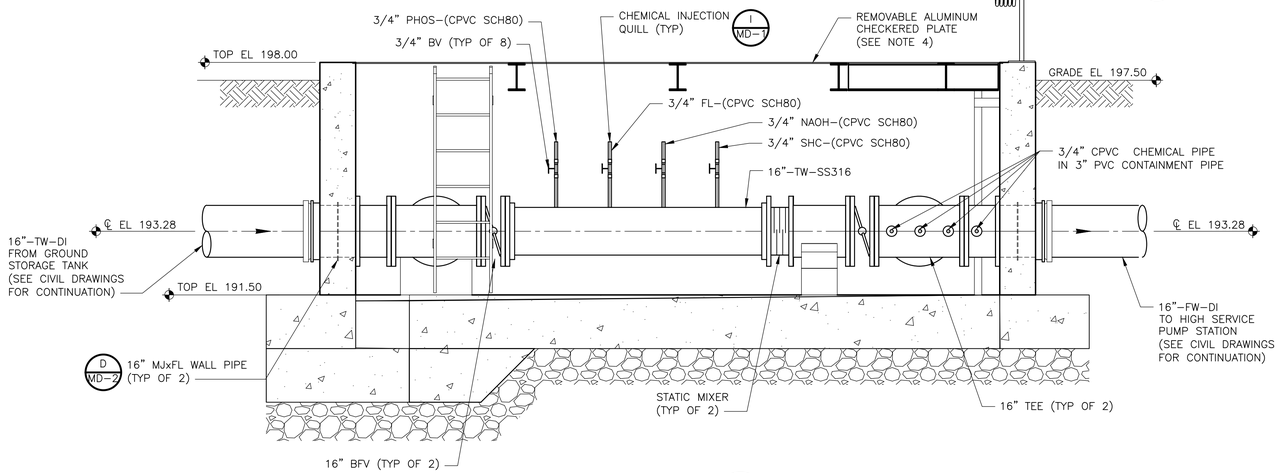
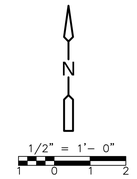


(ALUMINUM CHECKERED PLATE NOT SHOWN FOR CLARITY)

PLAN
1/2" = 1'-0"



SECTION 1
1/2" = 1'-0"



NOTES:

1. VAULT FLOOR SHALL SLOPED TO DRAINAGE SUMP PER STRUCTURAL DRAWINGS.
2. PIPE SUPPORTS SHOWN ARE ILLUSTRATIVE ONLY. PIPE SUPPORTS TO BE DELEGATED DESIGN.
3. FIELD ROUTE CHEMICAL PIPES WITHIN THE VAULT TO CONNECT TO THE INJECTION QUILLS. THE PIPING SHALL SPLIT IMMEDIATELY AFTER ENTERING THE VAULT TO ROUTE TO THE TWO INJECTION POINTS
4. PROVIDE REMOVABLE ALUMINUM CHECKERED PLATES PER STRUCTURAL DRAWING.
5. CONTRACTOR TO CONFIRM FINAL GRADE ELEVATION AND COORDINATE PIPE CENTERLINE WITH CIVIL.
6. NOT ALL PIPES, VALVES AND FITTINGS ARE SHOWN ON THE DRAWING. REFER TO PROCESS AND INSTRUMENTATION DRAWINGS (J/ID-2) FOR VALVE AND FITTING DETAILS.
7. PROVIDE VERTICAL ROW OF FOUR 3/4" BALL VALVES (ONE FOR EACH CHEMICAL) ON THE SOUTH WALL FOR THE INJECTION POINTS ON THE SOUTH INJECTION SIDE. PROVIDE VERTICAL ROW OF FOUR 3/4" BALL VALVES (ONE FOR EACH CHEMICAL) ON THE WEST WALL FOR THE INJECTION POINTS ON THE NORTH INJECTION SIDE. ROUTE 3/4" CPVC FROM THE INLET SIDE TO THE BALL VALVES (USE A TEE AND ROUTE TO EACH SIDE OF THE TEE TO EACH BALL VALVE). FOR THE SOUTH INJECTION SIDE, ROUTE 3/4" CPVC FROM EACH BALL VALVE TO AS CLOSE AS POSSIBLE TO THEIR RESPECTIVE INJECTION POINT, WHILE KEEPING THE PIPING ON THE SOUTH WALL. REPEAT THIS FOR THE NORTH INJECTION SIDE. THEN, PROVIDE 3/4" FLEXIBLE PVC (CLEARBRAID NSF61 K3150 YARD REINFORCED, OR EQUAL) FOR EACH OF THE EIGHT INJECTION POINTS. ROUTE FLEXIBLE PVC ALONG THE FLOOR, PROTECTING IT USING A 3–CHANNEL HEAVY DUTY CABLE PROTECTOR (MINIMUM HEIGHT 3") MODEL H–6954 BY ULINE OR EQUAL. PROVIDE FOUR TOTAL CABLE PROTECTORS, ROUTING TWO FLEXIBLE PVC THROUGH EACH CABLE PROTECTOR. FINALLY, CONNECT THE FLEXIBLE PVC TO THE RESPECTIVE INJECTION QUILL.

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: A. MANIMARAN
SHEET CHK'D BY: A. SRIRAM
CROSS CHK'D BY: C. SCHULZ
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

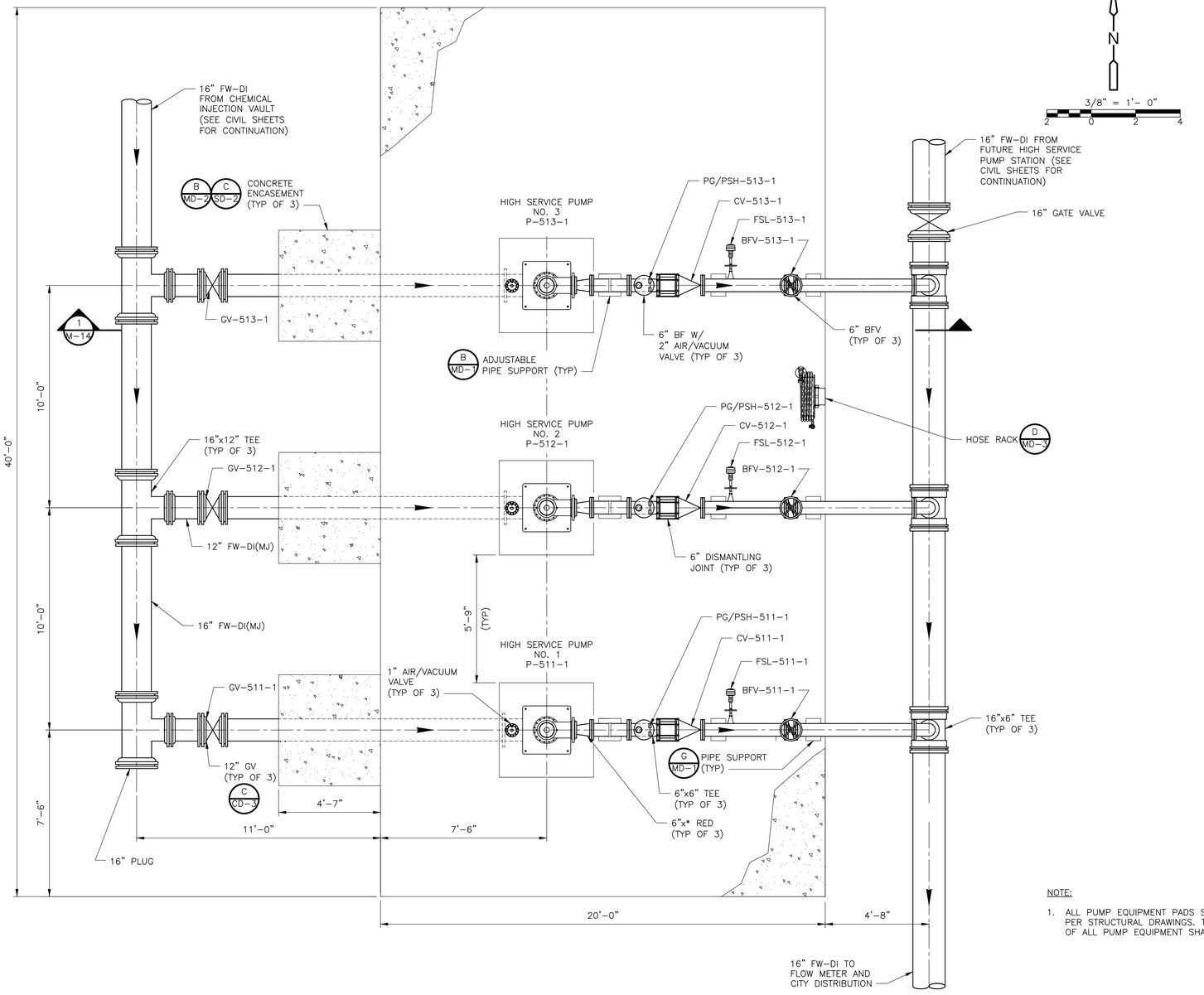
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL INJECTION VAULT PLAN AND SECTION

PROJECT NO. 20790-289282
FILE NAME: M012IVPS.DWG

SHEET NO.
M-12

ISSUED FOR BID



NOTE:

1. ALL PUMP EQUIPMENT PADS SHALL BE SIZED PER STRUCTURAL DRAWINGS. THE TOP ELEVATION OF ALL PUMP EQUIPMENT SHALL BE THE SAME.

PLAN
3/8" = 1'-0"

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: D. ISLAS
SHEET CHK'D BY: A. MASSAIS
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HIGH SERVICE PUMP STATION PLAN

PROJECT NO. 20790-289282
FILE NAME: M013PSPL.DWG

SHEET NO.
M-13

ISSUED FOR BID

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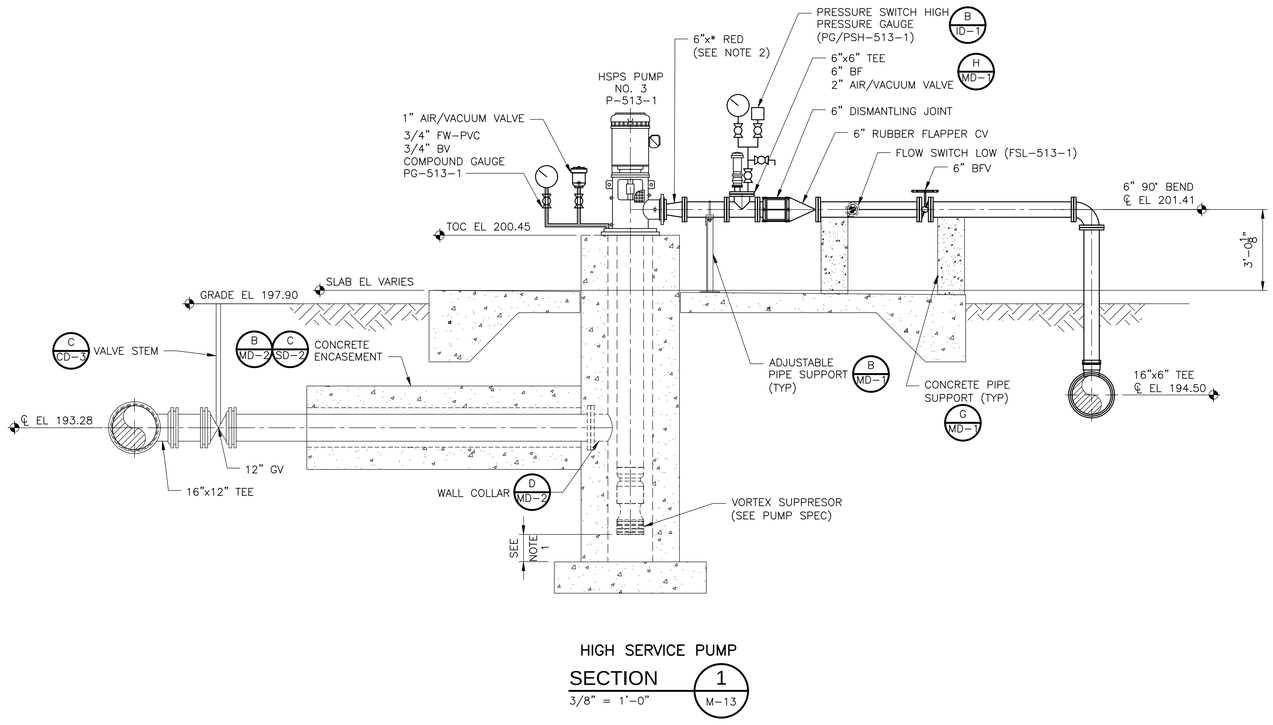


HIGH SERVICE PUMP

SECTION 1 / M-13

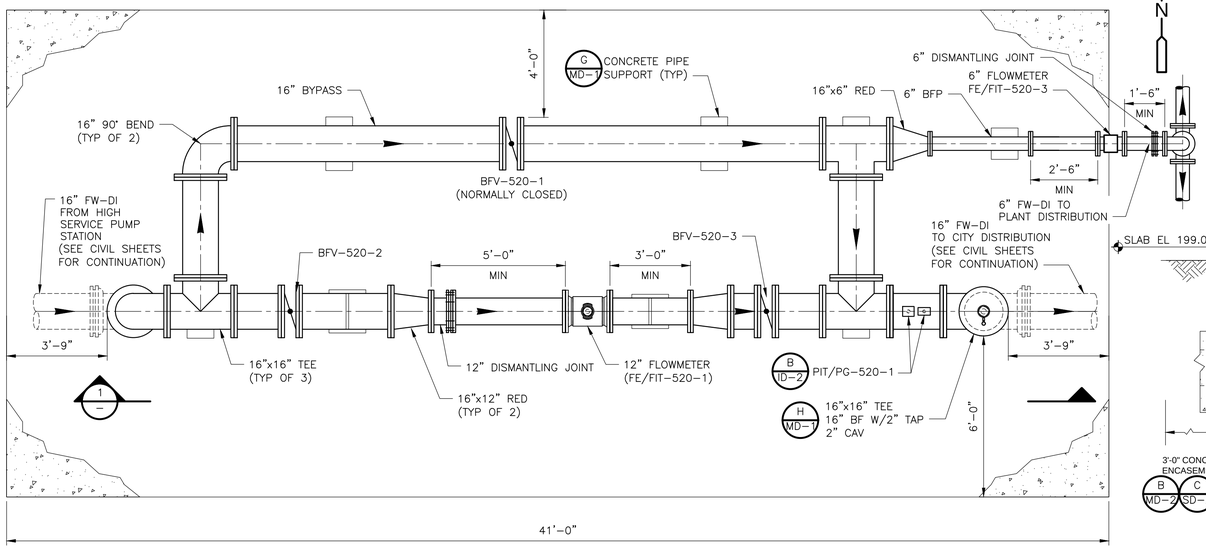
3/8" = 1'-0"

3/8" = 1'- 0"

2 0 2 4

NOTES:

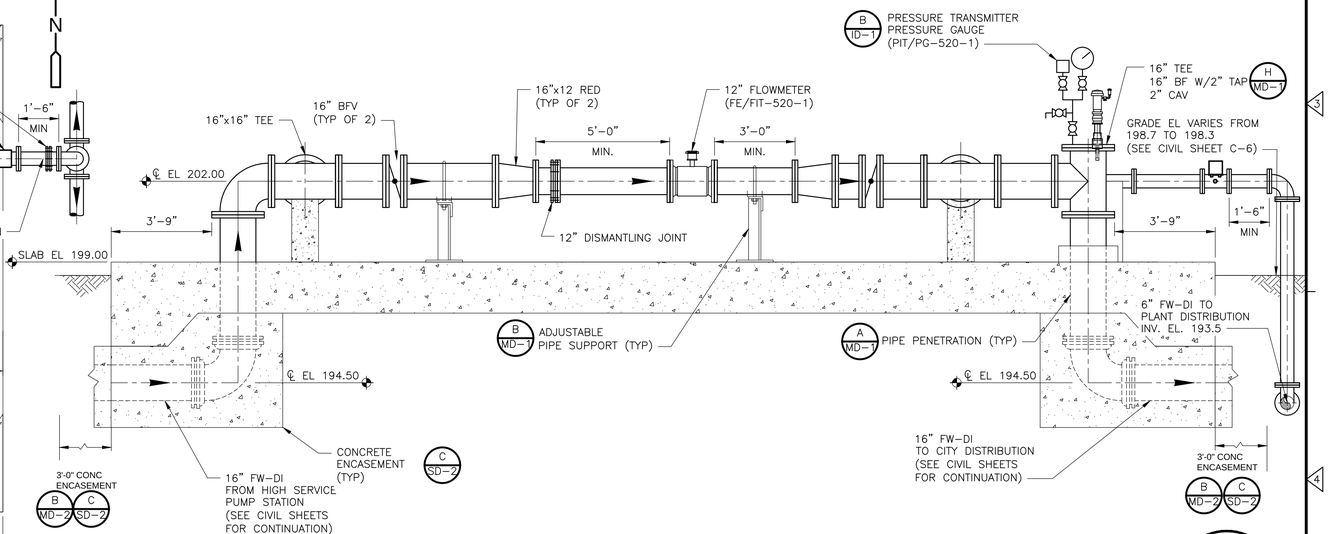
1. FINAL ELEVATION OF SUCTION BELL AND CAN BOTTOM PER PUMP MANUFACTURER'S RECOMMENDATIONS.
2. SYMBOL (*) DENOTES DIMENSION TO BE CONFIRMED WITH PUMP MANUFACTURER'S SHOP DRAWINGS.



FLOW METER PAD

PLAN

3/8" = 1'-0"



FLOW METER PAD

SECTION 1 / –

3/8" = 1'-0"

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: D. ISLAS
SHEET CHK'D BY: A. MASSAIS
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HIGH SERVICE PUMP STATION SECTION
AND FLOW METER PAD PLAN AND SECTION

PROJECT NO. 20790-289282
FILE NAME: M014PSSC.DWG

SHEET NO.
M-14

ISSUED FOR BID

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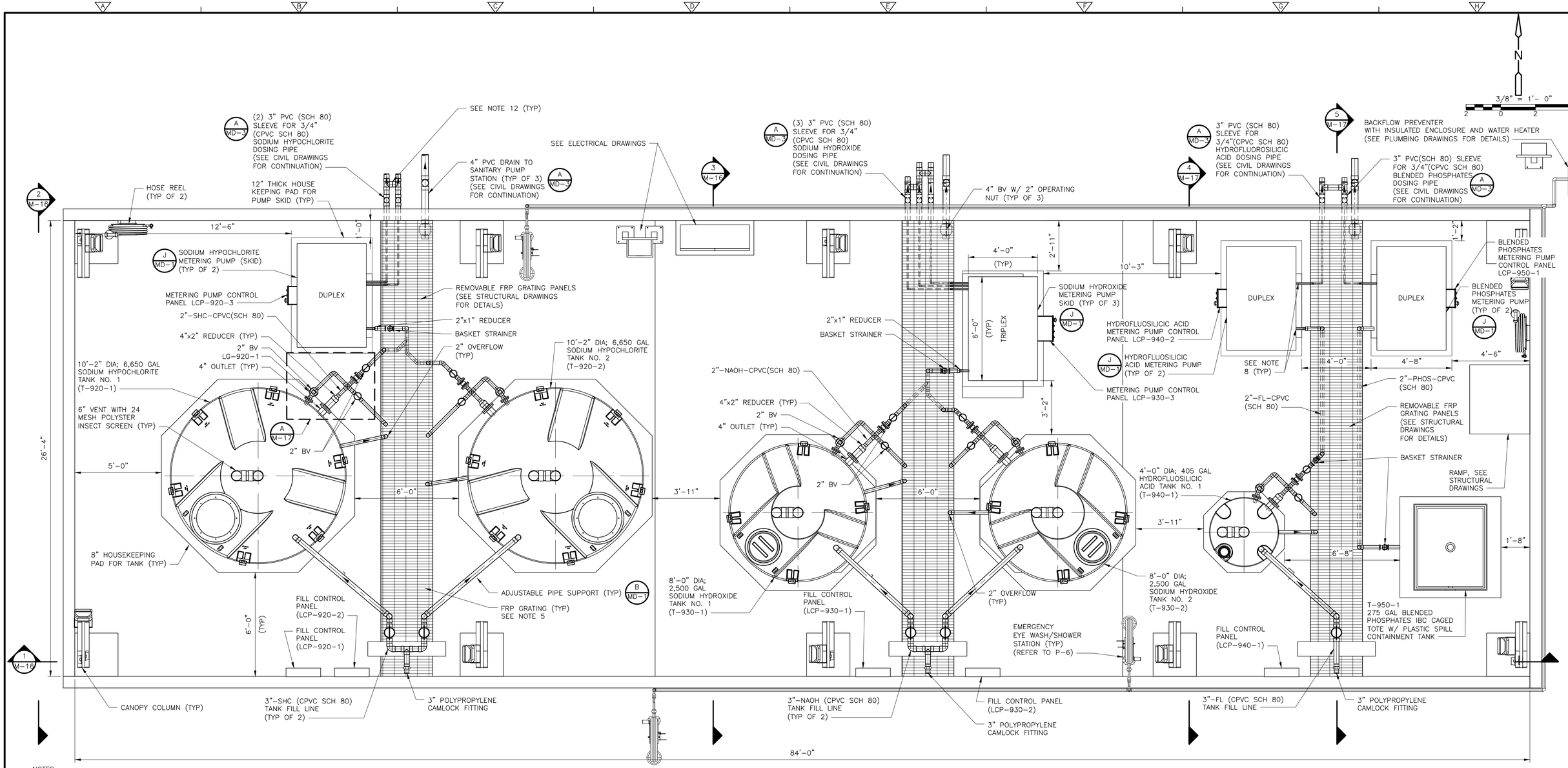

NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL PANEL DETAILS.
2. REFER TO PLUMBING DRAWINGS FOR EMERGENCY SHOWER AND HOSE STATIONS AND ITS RELATED PIPE WORK.
3. COORDINATE TANK DIMENSIONS WITH TANK PROVIDER SELECTED DURING BIDDING.
4. NOTCHES IN CONCRETE REQUIRED FOR TANK SHALL BE COORDINATED WITH REINFORCING SHOP DRAWING SUBMITTAL.
5. FRP GRATING AND SUPPORT FRAMING SHALL BE DESIGNED AND SUPPLIED BY FRP MANUFACTURER. SEE STRUCTURAL SHEETS AND STRUCTURAL SPECIFICATIONS.
6. COORDINATE METERING PUMP SKID DIMENSIONS WITH THE SELECTED MANUFACTURER DURING BIDDING.
7. PROVIDE CHEMICAL RESISTANT COATING FOR THE TRENCH. SEE STRUCTURAL DRAWINGS.
8. CHEMICAL SKID SUCTION AND DISCHARGE PIPE CONNECTIONS TO BE COORDINATED WITH THE SKID MANUFACTURER SELECTED DURING BIDDING.
9. NOT ALL THE PIPES, VALVES AND FITTINGS ARE SHOWN ON THE DRAWING. REFER TO PROCESS AND INSTRUMENTATION DRAWINGS FOR VALVE AND FITTING DETAILS.
10. PIPE SUPPORTS SHOWN ARE ILLUSTRATIVE ONLY. PIPE SUPPORTS TO BE DELEGATED DESIGN.
11. ALL METERING PUMP SKIDS ARE SHOWN IN 4'-0"x6'-0"X5'-7" FRP ENCLOSURE WITH DOORS THAT SWING TOWARDS THE TRENCHES, THE DOORS HAVE CLEAR PLASTIC SPLASH COVERS ON THEM. SEE SPECIFICATIONS FOR MORE DETAILS.
12. 3" TEE CONNECTS ONLY THE 3" CONTAINMENT. NO CHEMICAL PIPING IS WITHIN THESE INTERCONNECTIONS.
13. FOR ALL CHEMICAL PIPING, USE 3" PVC FOR CONTAINMENT AND THE SPECIFIED SIZE OF CHEMICAL PIPING. UTILIZE A CENTRALIZER BY GF PIPING SYSTEMS (OR EQUAL) TO CENTER THE CHEMICAL PIPING IN THE CONTAINMENT.

PLAN

3/8" = 1'-0"

(CANOPY NOT SHOWN FOR CLARITY)

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MARATHE
DRAWN BY: G. KABIL
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
PLAN

PROJECT NO. 20790-289282
FILE NAME: M015CHPL.DWG

SHEET NO.
M-15

ISSUED FOR BID

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3/8" = 1'- 0"
2 0 2 4

6" PVC VENT WITH 24 MESH POLYESTER INSECT SCREEN (TYP)
3"-SHC-CPVC(SCH 80) TANK FILL LINE (TYP OF 2)
℄ EL 213.95
℄ EL 211.95
2" OVERFLOW (TYP)
B MD-1 ADJUSTABLE PIPE SUPPORT (TYP)
HOSE REEL
10'-2" DIA; 6,650 GAL SODIUM HYPOCHLORITE TANK NO. 1 (T-920-1)
10'-2" DIA; 6,650 GAL SODIUM HYPOCHLORITE TANK NO. 2 (T-920-2)
2"-SHC (CPVC SCH 80)
TOC EL 200.17
℄ EL 200.75
TOC EL 200.00
TOC EL 199.50
GRADE EL 198.50
8" HOUSEKEEPING PAD FOR TANK (TYP)
(2) 3" PVC (SCH 80) SLEEVE FOR 3/4" (CPVC SCH 80) SODIUM HYPOCHLORITE DOSING PIPE (SEE CIVIL DRAWINGS FOR CONTINUATION)
CLAMP PIPE SUPPORT (TYP) D MD-1
4" PVC DRAIN TO SANITARY PUMP STATION (TYP OF 3) (SEE CIVIL DRAWINGS FOR CONTINUATION)
℄ EL 192.50
℄ EL 194.00

SECTION 1 / M-15
3/8" = 1'-0"

SEE ELECTRICAL DRAWINGS
3"-NAOH-CPVC(SCH 80) TANK FILL LINE (TYP OF 2)
℄ EL 210.24
℄ EL 205.16
2" OVERFLOW
8'-0" DIA; 2,500 GAL SODIUM HYDROXIDE TANK NO. 1 (T-930-1)
8'-0" DIA; 2,500 GAL SODIUM HYDROXIDE TANK NO. 2 (T-930-2)
TOC EL 200.16
℄ EL 200.75
2"-NAOH (CPVC SCH 80)
(3) 3" PVC (SCH 80) SLEEVE FOR 3/4" (CPVC SCH 40) SODIUM HYDROXIDE DOSING PIPE (SEE CIVIL DRAWINGS FOR CONTINUATION)
℄ EL 194.00
℄ EL 192.50

EMERGENCY EYE WASH/SHOWER STATION (TYP)
T-950-1 275 GAL BLENDED PHOSPHATES IBC CAGED TOTE W/ PLASTIC SPILL CONTAINMENT TANK
3"-FL (CPVC SCH 80) TANK FILL LINE
℄ EL 206.36
℄ EL 204.76
3" CAMLOCK FITTING (TYP)
4'-0" DIA; 405 GAL HYDROFLUOSILICIC ACID TANK NO. 1 (T-940-1)
TOC EL 200.16
℄ EL 200.75
BASKET STRAINER (TYP)
3" PVC (SCH 80) SLEEVE FOR 3/4" (CPVC SCH 80) DOSING PIPE (SEE CIVIL DRAWINGS FOR CONTINUATION)
℄ EL 194.00
℄ EL 192.50

6" VENT
℄ EL 213.95
3"-SHC-CPVC(SCH 80) TANK FILL LINE (TYP OF 2)
2" SIGHT GLASS
EMERGENCY EYE WASH/SHOWER STATION (TYP)
2" OVERFLOW
ADJUSTABLE PIPE SUPPORT (TYP) B MD-1
SODIUM HYPOCHLORITE METERING PUMP (TYP OF 2) J MD-1
10'-2" DIA; 6,650 GAL SODIUM HYPOCHLORITE TANK NO. 1 (T-920-1)
SEE ELECTRICAL DRAWINGS
TOC EL 200.00
SEE PLUMBING SHEETS
GRADE EL VARIES
TOC EL 199.50
℄ EL 202.66
3" CAMLOCK FITTING
2"-SHC (CPVC SCH 80)
GRADE EL VARIES
4" PVC DRAIN TO SANITARY PUMP STATION (SEE CIVIL DRAWINGS FOR CONTINUATION)
D MD-1 CLAMP PIPE SUPPORT
12" THICK HOUSE KEEPING PAD FOR PUMP SKID
8" THICK HOUSE KEEPING PAD FOR TANK
℄ EL 194.00
PIPE PENETRATION (TYP) A MD-3
℄ EL 192.50
(2) 3" PVC (SCH 80) SLEEVE FOR 3/4" (CPVC SCH 80) SODIUM HYPOCHLORITE DOSING PIPE (SEE CIVIL DRAWINGS FOR CONTINUATION) A MD-3

SECTION 2 / M-15
3/8" = 1'-0"

6" VENT
3"-NAOH (CPVC SCH 80) TANK FILL LINE (TYP OF 2)
℄ EL 210.24
SODIUM HYDROXIDE METERING PUMP (TYP OF 3) J MD-1
8'-0" DIA; 2500 GAL SODIUM HYDROXIDE TANK NO. 1 (T-930-1)
FILL CONTROL PANEL
SEE PLUMBING SHEETS
(3) 3" PVC (SCH 80) SLEEVE FOR 3/4" (CPVC SCH 80) SODIUM HYDROXIDE DOSING PIPE
℄ EL 202.66
3" CAMLOCK FITTING
TOC EL 200.00
GRADE EL VARIES
GRADE EL VARIES
4" PVC DRAIN TO SANITARY PUMP STATION (SEE CIVIL DRAWINGS FOR CONTINUATION)
12" THICK HOUSE KEEPING PAD FOR PUMP SKID
2"-NAOH-CPVC(SCH 80)
8" THICK HOUSE KEEPING PAD FOR TANK
℄ EL 194.00
℄ EL 192.50

SECTION 3 / M-15
3/8" = 1'-0"

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MARATHE
DRAWN BY: G. KABIL
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

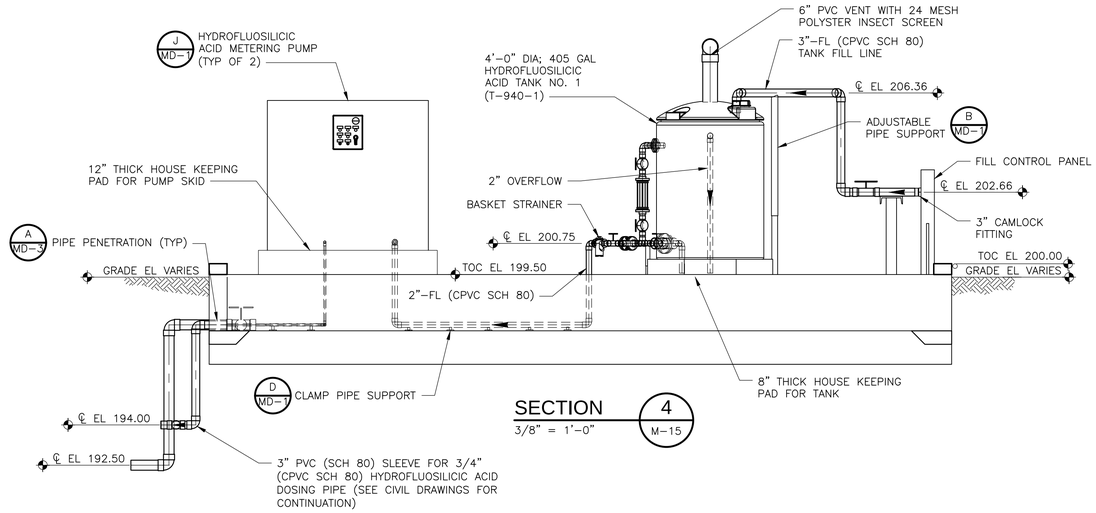
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA SECTIONS I

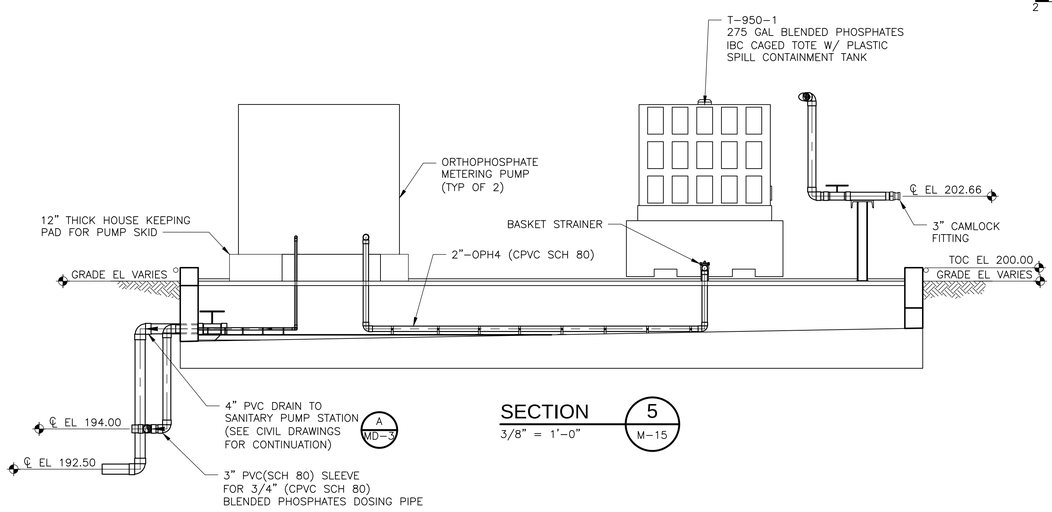
PROJECT NO. 20790-289282
FILE NAME: M016CHSC.DWG

SHEET NO.
M-16

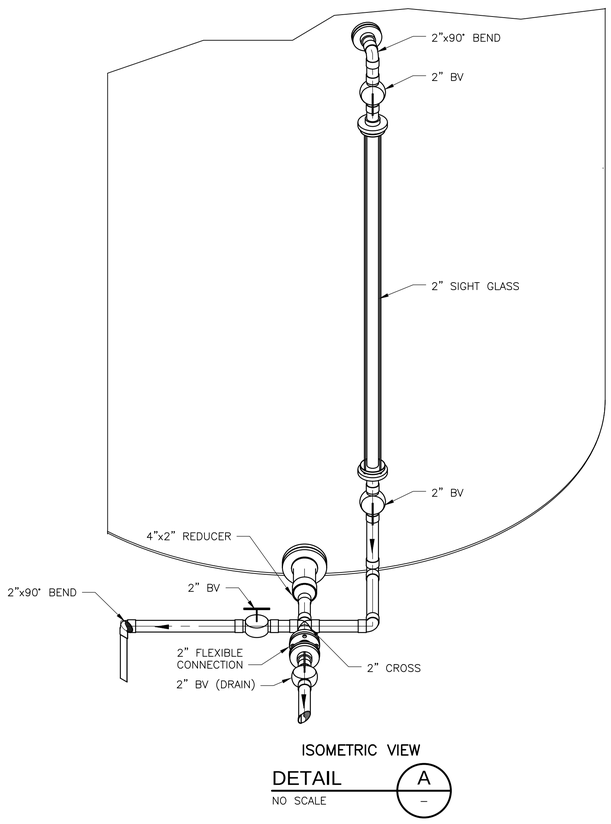
ISSUED FOR BID



SECTION 4 (M-15)
3/8" = 1'-0"



SECTION 5 (M-15)
3/8" = 1'-0"



ISOMETRIC VIEW

DETAIL A (NO SCALE)

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MARATHE
DRAWN BY: G. KABIL
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
SECTIONS II

PROJECT NO. 20790-289282
FILE NAME: M017CHSC.DWG
SHEET NO. M-17

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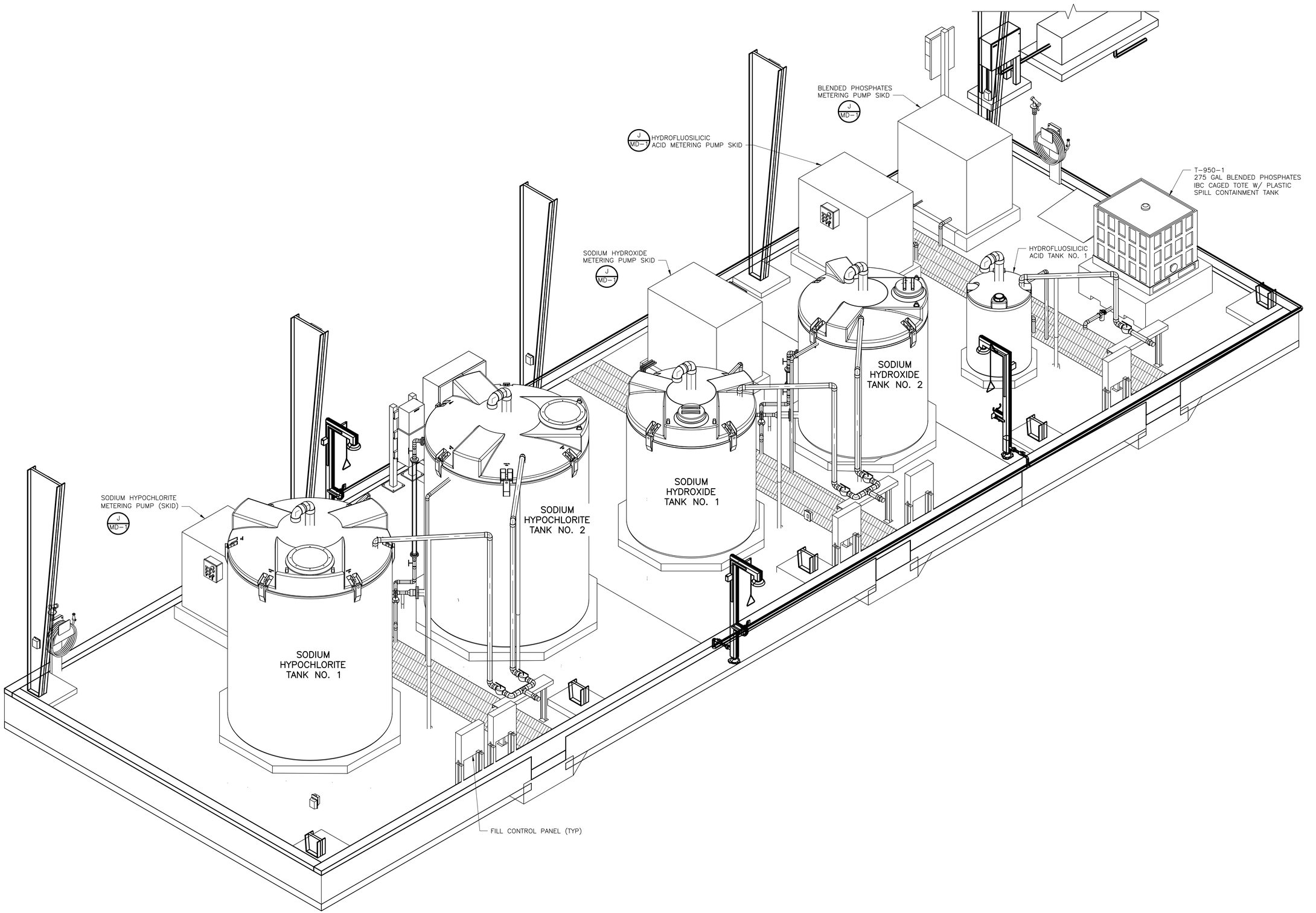

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MARATHE
DRAWN BY: G. KABIL
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
ISOMETRIC

PROJECT NO. 20790-289282
FILE NAME: M018CHSC.DWG

SHEET NO.
M-18

ISSUED FOR BID

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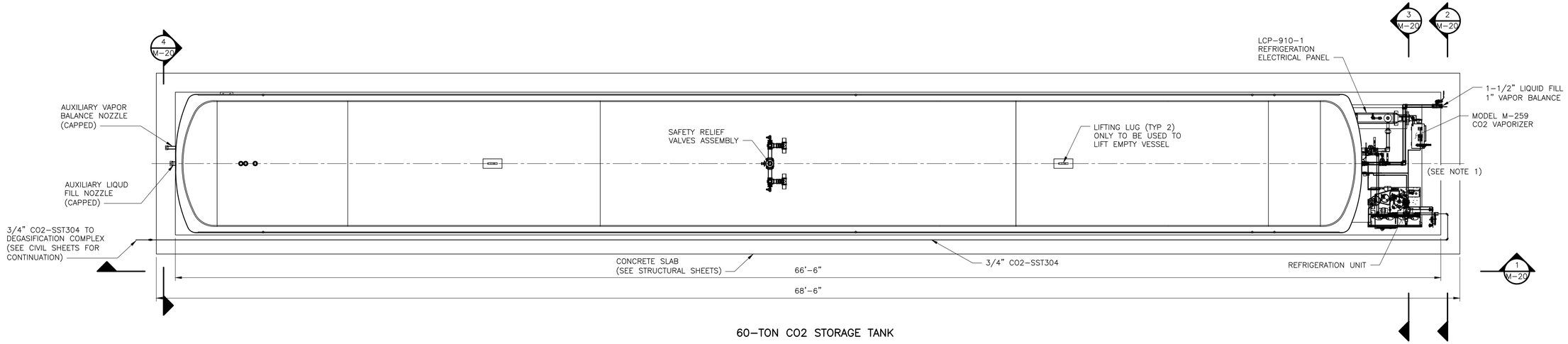
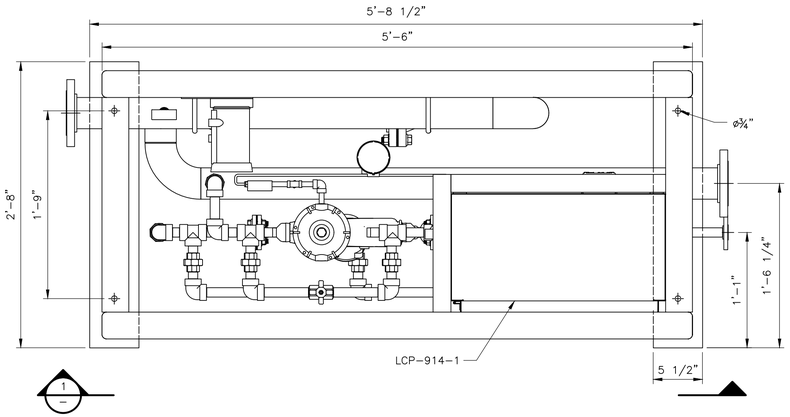


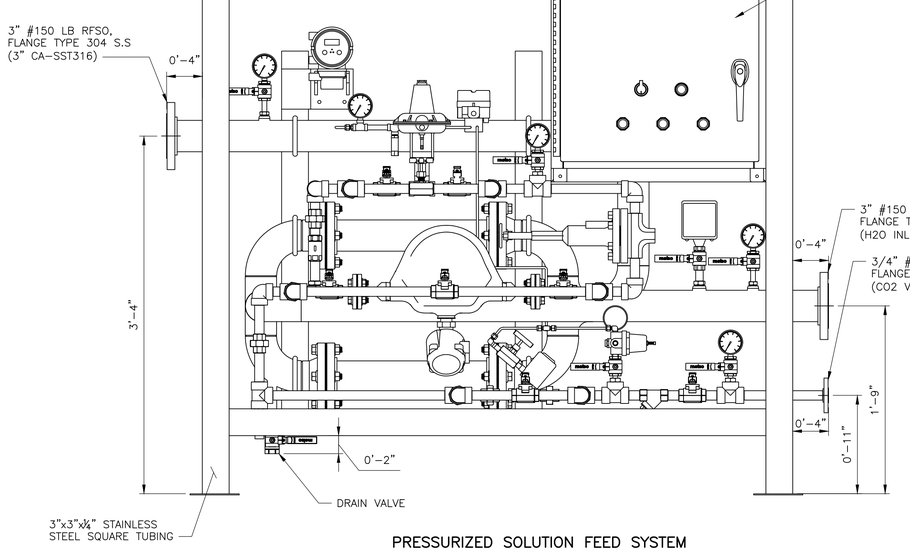
60-TON CO2 STORAGE TANK
PLAN
3/8" = 1'-0"

NOTE:

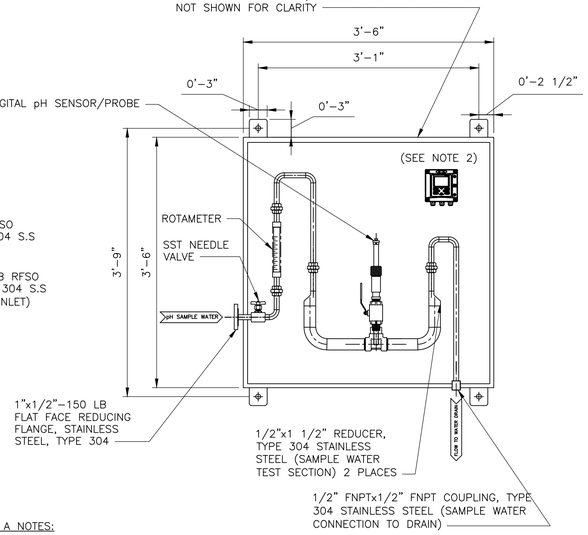
1. EQUIPMENT ENCLOSURE NOT SHOWN IN PLAN VIEW FOR CLARITY. SEE SECTION 2/M-20 FOR EQUIPMENT ENCLOSURE.



PRESSURIZED SOLUTION FEED SYSTEM
DETAIL B
1-1/2" = 1'-0" — M-4



PRESSURIZED SOLUTION FEED SYSTEM
SECTION 1
1-1/2" = 1'-0" — –



DETAIL A NOTES:

1. pH SAMPLE STATION FOR AE/AIT 450-1 TO BE PROVIDED BY THE CARBON DIOXIDE STORAGE AND FEED SYSTEM MANUFACTURER. pH SAMPLE STATION FOR AE/AIT 404-1 TO BE PROVIDED BY THE GENERAL CONTRACTOR.
2. THE pH DISPLAY SHOWN IS ONLY FOR THE pH RACK ASSOCIATED WITH AE/AIT 404-1. PROVIDE A SUN SHEILD FOR THE DISPLAY.

PH SAMPLE STATION
DETAIL A
1" = 1'-0" — M-4

3/4" = 1'- 0"
1" = 1'- 0"
1 1/2" = 1'- 0"

GEORGIA REGISTERED No. PE0511142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MARATHE
DRAWN BY: G. KABIL
SHEET CHK'D BY: A. MARATHE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CARBON DIOXIDE STORAGE AND FEED SYSTEM PLAN

PROJECT NO. 20790-289282
FILE NAME: M019CDPL.DWG
SHEET NO.
M-19

ISSUED FOR BID

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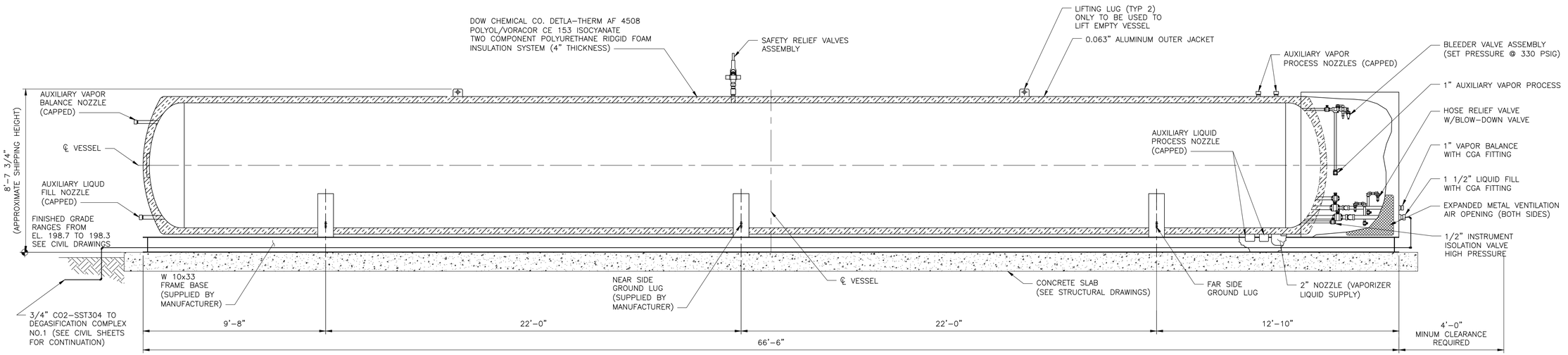
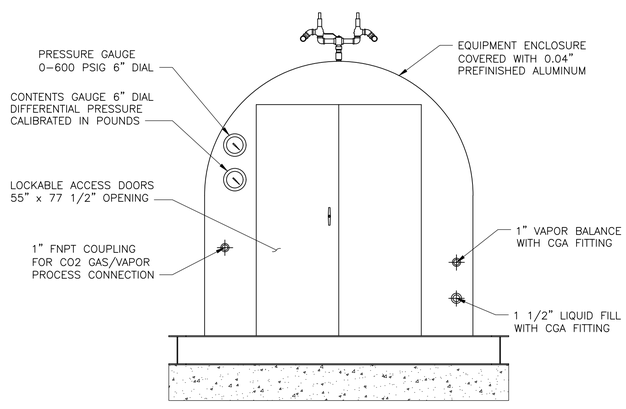
1/2" = 1'– 0"

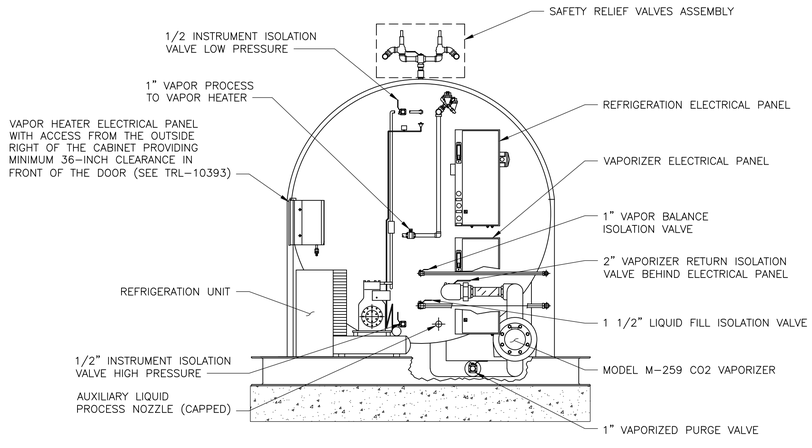


60–TON CO2 STORAGE TANK

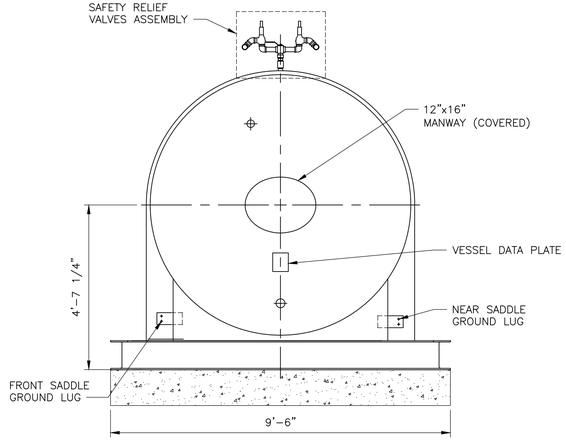
SECTION 1 (M–19)
3/8" = 1'–0"



SECTION 2 (M–19)
1/2" = 1'–0"



SECTION 3 (M–19)
1/2" = 1'–0"



SECTION 4 (M–19)
1/2" = 1'–0"

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MARATHE
DRAWN BY: G. KABIL
SHEET CHK'D BY: A. MARATHE
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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CARBON DIOXIDE STORAGE AND FEED SYSTEM SECTIONS

PROJECT NO. 20790–289282
FILE NAME: M020CDSC.DWG

SHEET NO.
M-20

ISSUED FOR BID

E/One PANEL	
DUPLEX T260	
DUP PROTECT PLUS	
QUAD T260	
QUAD PROTECT PLUS	
QUAD PLC PANEL	X

E/One PUMPS			
1	2	3	4
			X

ALUMINUM LID	
1/3-2/3 SPLIT	
HATCHED	
WATER TIGHT HATCH	
W/SAFETY NET (HATCH ONLY)	X

CABLE ENTRY	
BULK HEAD (DIRECT BURY)	
COUPLER (FOR CONDUIT)	X

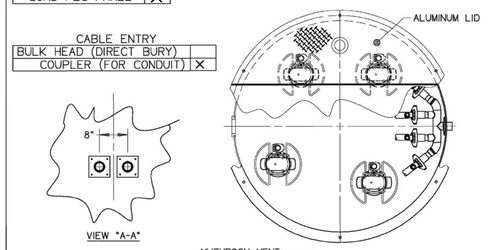
DIAMETER CHOICES	
48	☐ "D"
60	☐
72	☒

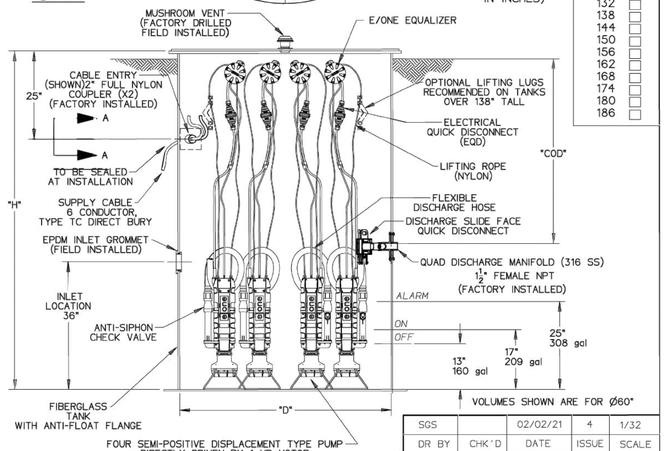
W SERIES QUADPLEX STATIONS

HEIGHT CHOICES	
"H"	COD RANGE
150	(24-114) ☐
156	(24-120) ☒
162	(24-126) ☐
168	(24-132) ☐
174	(24-138) ☐
180	(24-144) ☐
186	(24-150) ☐
192	(24-156) ☐
198	(24-162) ☐
204	(24-168) ☐
210	(24-174) ☐
216	(30-180) ☐
222	(36-186) ☐
228	(42-186) ☐
234	(48-186) ☐
240	(54-186) ☐

COVER OVER DISCH CHOICES	
"COD"	
24	☒
30	☐
36	☐
42	☐
48	☐
54	☐
60	☐
66	☐
72	☐
78	☐
84	☐
90	☐
96	☐
102	☐
108	☐
114	☐
120	☐
126	☐
132	☐
138	☐
144	☐
150	☐
156	☐
162	☐
168	☐
174	☐
180	☐
186	☐

(DIMENSIONS ARE IN INCHES)





INLET CHOICES
4" DWV PIPE (4.50 OD) ☐
4" DR35 PIPE (4.22 OD) ☐
6" DWV PIPE (6.63 OD) ☐
6" DR35 PIPE (6.28 OD) ☐
8" DWV PIPE (8.63 OD) ☐
8" DR35 PIPE (8.40 OD) ☐

NOTE:
- 4" & 6" INLETS ARE EDPM GROMMETS
- 8" DWV & DR35 INLETS ARE Link Seal COnneCtiOns.

SGS		02/02/21	4	1/32
DR BY	CHK'D	DATE	ISSUE	SCALE

e/one SEWER SYSTEMS

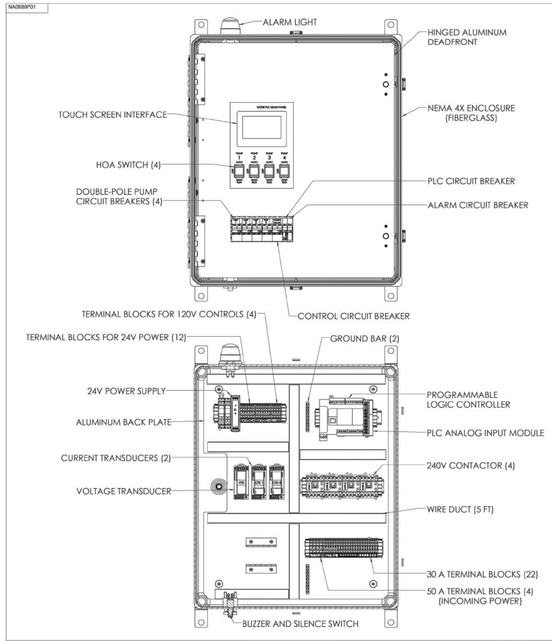
DETAIL SHEET, W SERIES, QUAD W/QUAD MAN, 2" COUPLER, OVER 144"

ESD 18-0097

DETAIL A
NTS

ELEVATIONS	
TOP OF WET WELL	197.50
INLET INVERT	187.48
HIGH WATER ALARM	186.81
PUMP ON	186.15
PUMP OFF	185.81
BOTTOM OF WET WELL	184.73

NA0689P01



E/ONE PLC MULTIPLEX PANEL FEATURES

- THE E/ONE PLC MULTIPLEX PANEL IS DESIGNED TO CONTROL UP TO 4 E/ONE METERING PUMPS USING INPUT FROM A PRESSURE TRANSDUCER. THE PANEL HAS MANY FEATURES FROM PROTECT PLUS - FULLY DESCRIBED BELOW
- PLC PANEL SPECIFIC FEATURES INCLUDE:
  - TOUCH SCREEN CONTROLLER INTERFACE
  - PUMP DATA READOUT: CYCLE COUNT, PUMP CURRENT, TOTAL RUNTIME, FLUID LEVEL, HAND/AUTO
  - PRESSURE TRANSDUCER PROVIDES LIVE FLUID LEVEL READOUT TO INTERFACE
    - HIGH AND LOW LEVEL FLOATS AS BACKUPS TO PRESSURE TRANSDUCER
  - EDITABLE RUN & ALARM LEVELS (RUN LEVEL 1, 2, 3, 4 AND ALARM)
  - EDITABLE TROUBLE CONDITION SET POINTS (OVERPRESSURE)
  - PUMP SEQUENCING BASED ON RUNTIME AND FLUID LEVEL
    - KEEPS WEAR AND TEAR EVEN BY KEEPING RUNTIMES EQUAL
    - ALL AVAILABLE PUMPS HAVE AN OPPORTUNITY TO RUN BEFORE ALARM LEVEL IS REACHED
    - LEAD - LAG RELATIONSHIPS DETERMINED DYNAMICALLY BASED ON RUNTIME
    - SEQUENCING LOGIC SKIPS DISABLED PUMPS
  - "NEXT TO RUN" INDICATOR
  - MANUAL TROUBLE CONDITION RESET
  - TIDY PANEL WIRING VIA WIRE DUCTS
  - HINGED ALUMINUM DEADFRONT AND ALUMINUM BACK PLATE
- ALSO INCLUDES THE FOLLOWING GENERAL FEATURES:
  - EXTERNAL AUDIBLE AND VISUAL ALARM
  - MANUAL ALARM SILENCE
  - MANUAL RUN
  - TROUBLE INDICATIONS: OVERPRESSURE, BROWNOUT, OVERVOLTAGE, PUMP FAILED TO START
  - PADLOCK
  - PREDICTIVE ALARMS
  - REAL TIME PUMP PERFORMANCE
  - NEMA 4X ENCLOSURE, FIBERGLASS, 24" X 20" X 10"
- ENCLOSURE OPTIONS:
  - STAINLESS STEEL
  - COOLING FAN

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NKS	06/30/2021	SGS	B	N/A
DR BY	DATE	CHK'D	ISSUE	SCALE

e/one SEWER SYSTEMS

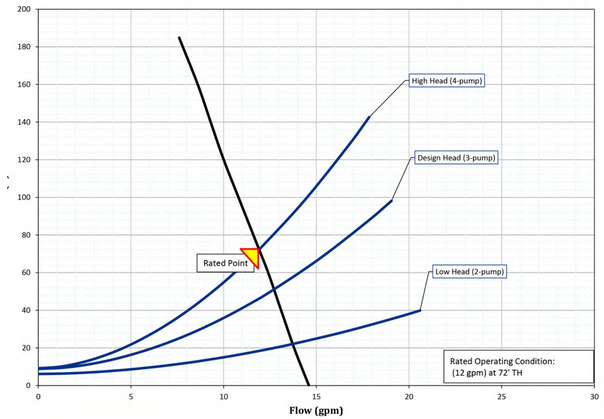
PLC MULTIPLEX PANEL, BASIC

NA0689P01

DETAIL B
NTS

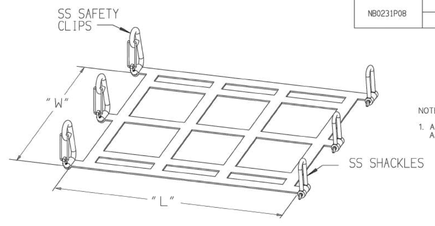
Sanitary Grinder Pump Station

CDM Smith



DETAIL C
NTS

PART NUMBER	BASIN I.D. (IN)	FOR HATCH TYPE:	DIM "W" (IN)	DIM "L" (IN)	USF P/N
NB0231P01	30	GAS TIGHT/WATER TIGHT	10	11	NET 13x17A
NB0231P02	30	STANDARD			reserved
NB0231P03	36	GAS TIGHT/WATER TIGHT	14	16	NET 17x22A
NB0231P04	36	STANDARD	16	21	NET 19x27A
NB0231P05	42	GAS TIGHT/WATER TIGHT	17	20	NET 20x26A
NB0231P06	42	STANDARD	19	26	NET 22x32A
	48	GAS TIGHT/WATER TIGHT			
NB0231P07	48	STANDARD	21	30	NET 24x36A
	60	GAS TIGHT/WATER TIGHT			
	60	STANDARD			
NB0231P08	72	GAS TIGHT/WATER TIGHT	27	42	NET 30x48A
	72	STANDARD			



NOTES:
1. ALL LIDS SHOWN INCLUDE SAFETY NET SUPPORTS AND ARE SAFETY NET READY

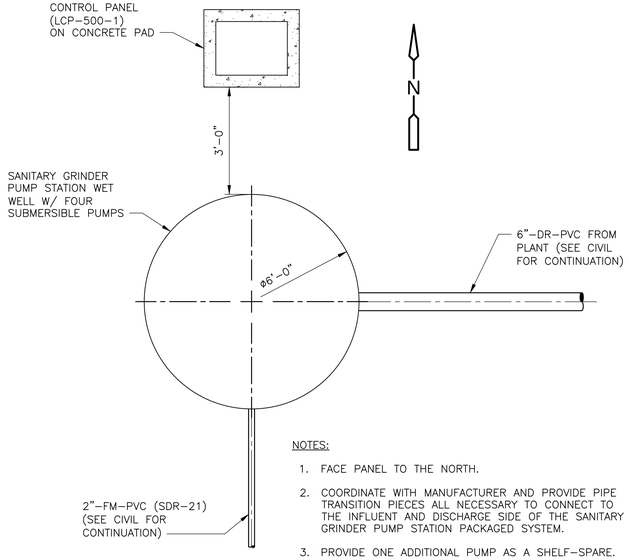
SGS		05/08/12	1	
DR BY	CHK'D	DATE	ISSUE	SCALE

e/one SEWER SYSTEMS

SAFETY NET FOR USE WITH HATCHED LIDS, W SERIES

ESD 12-0063

DETAIL D
NTS



NOTES:
1. FACE PANEL TO THE NORTH.
2. COORDINATE WITH MANUFACTURER AND PROVIDE PIPE TRANSITION PIECES ALL NECESSARY TO CONNECT TO THE INFLUENT AND DISCHARGE SIDE OF THE SANITARY GRINDER PUMP STATION PACKAGED SYSTEM.
3. PROVIDE ONE ADDITIONAL PUMP AS A SHELF-SPARE.

DETAIL E
NTS

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: D. ISLAS
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SANITARY GRINDER PUMP STATION
PLAN AND SECTION

PROJECT NO. 20790-289282
FILE NAME: M021PSPL.DWG

SHEET NO.
M-21

ISSUED FOR BID

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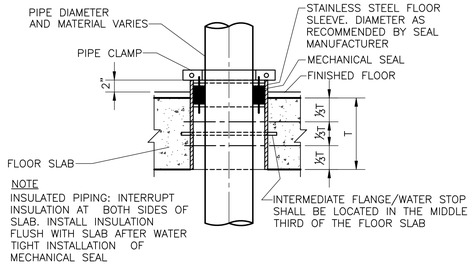
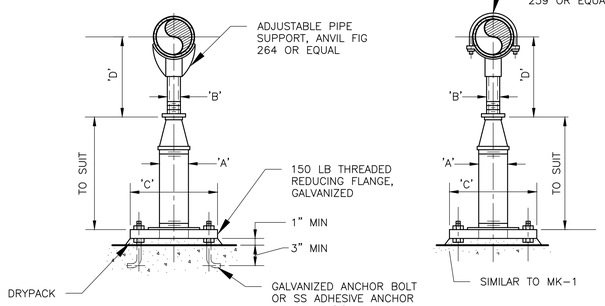


NOTE
INSULATED PIPING: INTERRUPT INSULATION AT BOTH SIDES OF SLAB. INSTALL INSULATION FLUSH WITH SLAB AFTER WATER TIGHT INSTALLATION OF MECHANICAL SEAL

FLOOR SLEEVE WITH MECHANICAL SEAL

DETAIL A
NTS



MK-1 MK-2

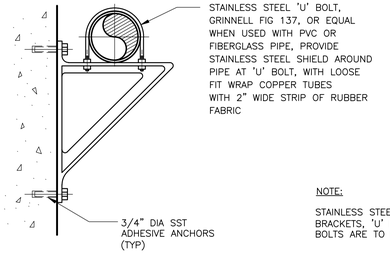
ADJUSTABLE PIPE SUPPORT

DETAIL B
NTS

ADJUSTABLE PIPE SUPPORT APPROX DIMENSIONS IN INCHES					
PIPE SIZE	A	B	C	D MIN	D MAX
2	2	1	9	8	11
3	2	1	9	8	11
3	2	1	9	8	12
4	3	2	9	10	14
6	3	2	9	11	15
8	3	2	9	13	16
10	3	2	9	14	18
12	3	2	9	15	19
14	4	3	11	18	20
16	4	3	11	19	22
18	6	3	13	21	24
20	6	3	13	23	25
24	6	4	13	26	28
30	6	4	13	29	31
32	6	4	13	30	32
36	6	4	13	32	34

NOTES:

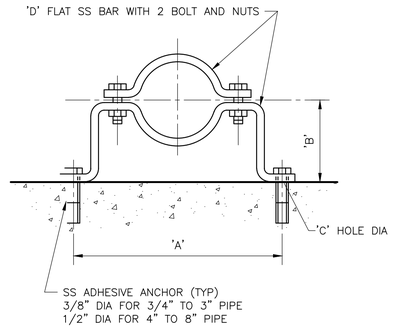
1. UNDER VALVES, METERS OR OTHER SPECIAL APPURTENANCES A FABRICATED SUPPORT PIECE MAY BE UTILIZED AS ACCEPTABLE TO ENGINEER.
2. FOR CHEMICAL STORAGE AREA, PIPE SUPPORTS SHALL BE OF FRP.



NOTE:
STAINLESS STEEL SHIELDS, BRACKETS, 'U' BOLTS, AND BOLTS ARE TO BE SST TYPE 316

PIPE BRACKET

DETAIL C
NTS

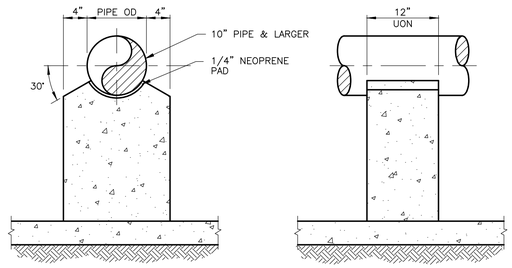


DIMENSIONS IN INCHES					
PIPE DIA.	'A'	'B' SEE NOTE 3 BELOW	'C' HOLE DIA.	'D' FLAT BAR SIZE	LOAD RATING LBS.*
1-½	6-15/16	3	7/16	3/16 X 1-¼	300
2	8-5/16	3-3/16	7/16	¼ X 1-¼	500
2-½	8-7/8	3-7/16	7/16	¼ X 1-¼	500
3	9-3/8	3-¾	7/16	¼ X 1-¼	500

* SAFETY FACTOR OF 5

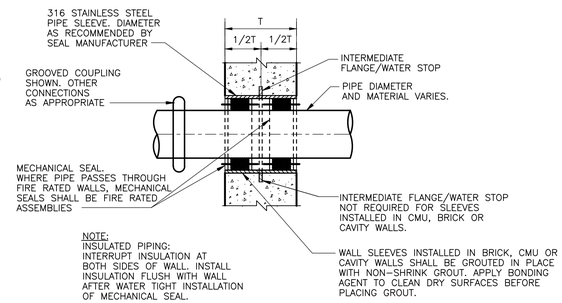
NOTES:

1. PIPE CLAMPS, WASHER AND SHIELD SHALL BE TYPE 316 STAINLESS STEEL. FOR CHEMICAL CONTAINMENT AREA, PIPE SUPPORT MATERIAL SHALL BE FRP. ANCHOR BOLT SHALL BE COMPATIBLE WITH THE CHEMICAL.
2. WHEN USED WITH PVC PIPE PROVIDE STEEL SHIELD AROUND PIPE AT CLAMP, WITH LOOSE FIT.
3. FOR FLANGED PIPING INCREASE 'B' DIMENSION AS REQUIRED
4. ALL ANCHOR BOLTS SHALL BE TYPE 316 SS.
5. FOR CHEMICAL STORAGE AREA, PIPE SUPPORTS SHALL BE OF FRP. ANCHOR BOLTS SHALL BE COMPATIBLE WITH THE CHEMICAL.



NOTE:

1. CONCRETE PIPE SUPPORTS ARE INCLUDED IN THE DELEGATED DESIGN DESCRIBED IN SECTION 400507. REBAR SIZING AND LOCATION WILL BE DETERMINED BY THE DELEGATE DESIGN ENGINEER.



NOTE:
INSULATED PIPING: INTERRUPT INSULATION AT BOTH SIDES OF WALL. INSTALL INSULATION FLUSH WITH WALL AFTER WATER TIGHT INSTALLATION OF MECHANICAL SEAL.

WALL SLEEVE W/ MECHANICAL SEAL FOR CONCRETE, BRICK, CMU OR CAVITY WALLS

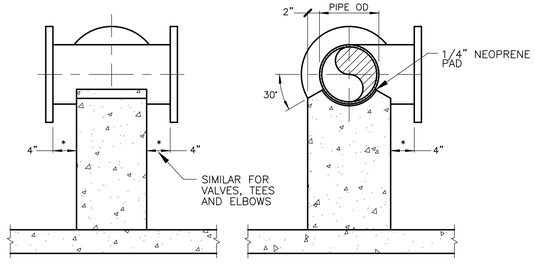
DETAIL F
NTS

10" PIPE AND LARGER

DETAIL E
NTS

PIPE CLAMPS FOR INDIVIDUAL PIPES

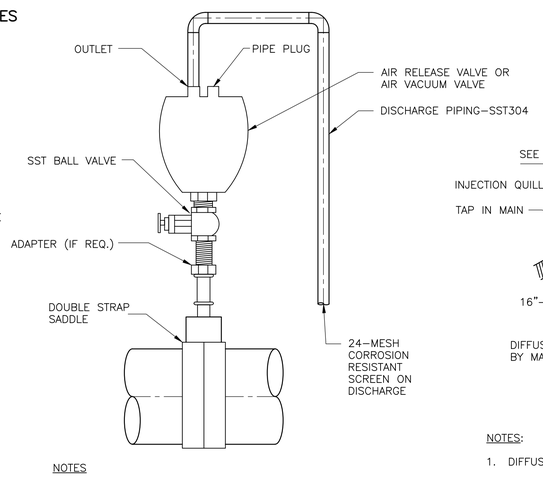
DETAIL D
NTS



* INCREASE 4" CLEARANCE AS REQUIRED IF BOLT HAS TO BE INSERTED FROM THE SUPPORT SIDE OF THE CONNECTION.

NOTE:

1. CONCRETE PIPE SUPPORTS ARE INCLUDED IN THE DELEGATED DESIGN DESCRIBED IN SECTION 400507. REBAR SIZING AND LOCATION WILL BE DETERMINED BY THE DELEGATE DESIGN ENGINEER.

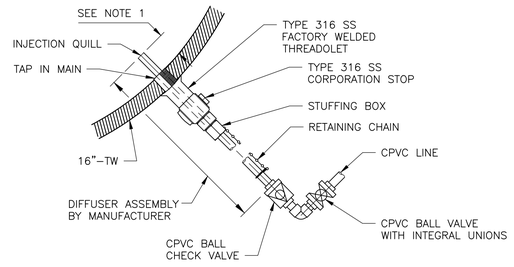


NOTES

1. ALL PIPE AND FITTINGS ON AIR VALVE SHALL BE 316 SST.
2. ALL PIPE AND FITTINGS SHALL BE SAME NOMINAL SIZE AS THE ASSOCIATED AIR VALVE ASSEMBLY.
3. AN AIR RELEASE VALVE IS SHOWN IN THIS DETAIL, THIS DETAIL IS APPLICABLE TO ALL TYPES OF AIR VALVES.

AIR VALVE ASSEMBLY

DETAIL H
NTS



NOTES:

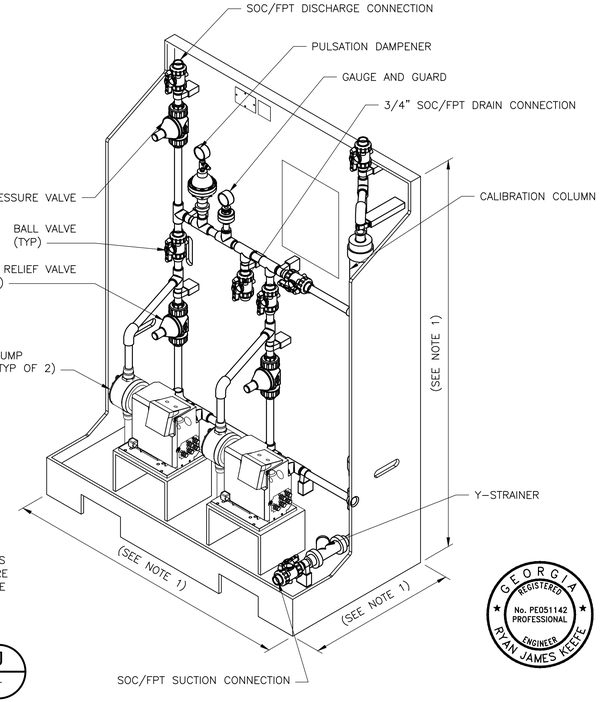
1. DIFFUSER COMPONENTS ASSEMBLY BY MANUFACTURER.
2. EXTEND DIFFUSER TUBE INTO MAIN PIPE AS RECOMMENDED BY MANUFACTURER-MIN OF ONE THIRD OF PIPE DIAMETER.
3. STUFFING BOX WITH CHEMICAL RESISTANT GASKET TO MAKE WATER TIGHT, BUT ALLOW FOR REMOVAL OF INJECTION PIPE THROUGH CORPORATION STOP.

CHEMICAL INJECTION QUILL

DETAIL I
NTS

NOTES:

1. SKID DIMENSIONS SHALL BE PER MANUFACTURER.
2. SKID SHOWN FOR REPRESENTATION. REFER TO SECTION 463342 DIAPHRAGM METERING PUMP FOR MORE DETAILS. THE NUMBER OF PUMPS VARY FOR EACH SKID. REFER TO P&IDS FOR PUMP CONFIGURATION AT EACH CHEMICAL SKID.
3. THE FOLLOWING DETAIL IS A TYPICAL DETAIL OF A DUPLEX METERING PUMP SYSTEM. THIS DETAIL DOES NOT SHOW (1) THE ENCLOSURE AROUND THE METERING PUMPS AND (2) THE TRIPLEX METERING PUMP SYSTEM FOR SODIUM HYPOCHLORITE.



PUMP SKID

DETAIL J
NTS

8" PIPE AND SMALLER

DETAIL G
NTS

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. MASSAIS
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: R. KEEFE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

MISCELLANEOUS MECHANICAL DETAILS I

PROJECT NO. 20790-289282
FILE NAME: MD01MDDT.DWG

SHEET NO.
MD-1

ISSUED FOR BID

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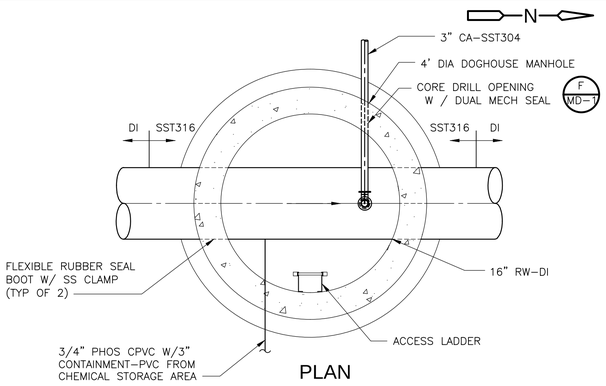
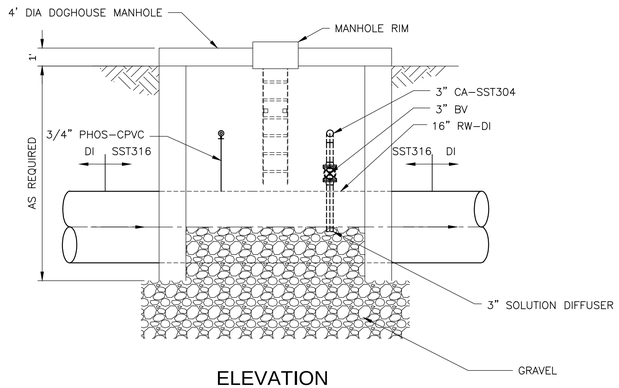


PLAN

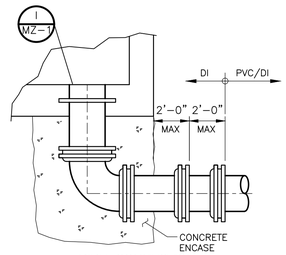


ELEVATION

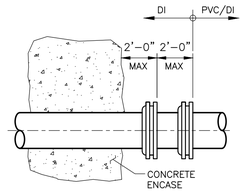
CHEMICAL INJECTION MANHOLE

DETAIL A

NTS



PIPE CONNECTION
AFTER ENCASED ELBOW

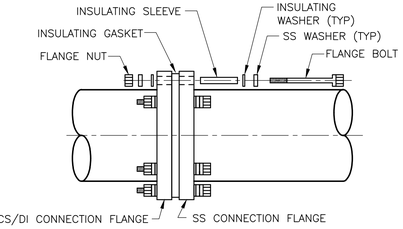


PIPE CONNECTION
AFTER ENCASEMENT

PIPE CONNECTION AFTER ENCASEMENT

DETAIL B

NTS



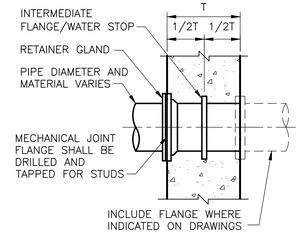
NOTES:

1. ALL NUTS, BOLTS, AND WASHERS SHALL BE TYPE 316 SS MATERIALS.
2. INSULATING GASKET, INSULATING SLEEVE AND INSULATING WASHERS SHALL BE VITON MATERIAL AND RATED FOR 300°F.

INSULATING FLANGE ASSEMBLY
(FOR DISSIMILAR PIPE MATERIALS)

DETAIL C

NTS



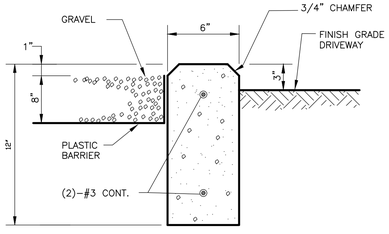
NOTE:

1. FURNISH RESTRAINED MECHANICAL JOINT WHERE INDICATED ON THE DRAWINGS OR SPECIFICATIONS.

MECHANICAL JOINT X PLAIN END
(OR FLANGE) WALL PIPE

DETAIL D

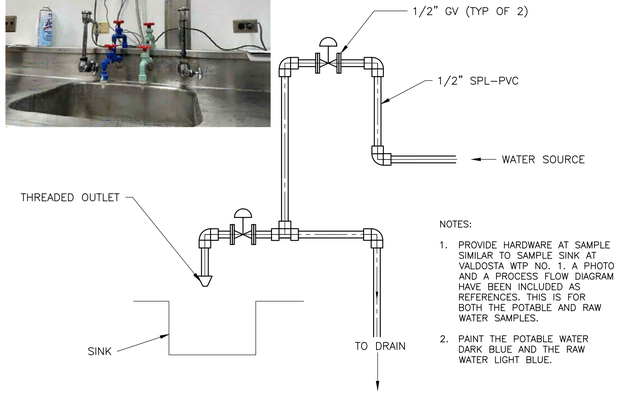
NTS



CONTAINMENT CURB

DETAIL E

NTS



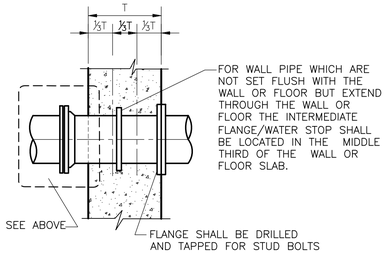
NOTES:

1. PROVIDE HARDWARE AT SAMPLE SIMILAR TO SAMPLE SINK AT VALDOSTA WTP NO. 1. A PHOTO AND A PROCESS FLOW DIAGRAM HAVE BEEN INCLUDED AS REFERENCES. THIS IS FOR BOTH THE POTABLE AND RAW WATER SAMPLES.
2. PAINT THE POTABLE WATER DARK BLUE AND THE RAW WATER LIGHT BLUE.

SAMPLE SINK IN OPERATIONS BUILDING

DETAIL F

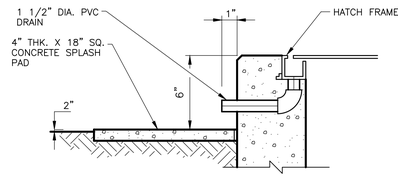
NTS



CASTING WITH NON–FLUSH JOINTS

DETAIL G

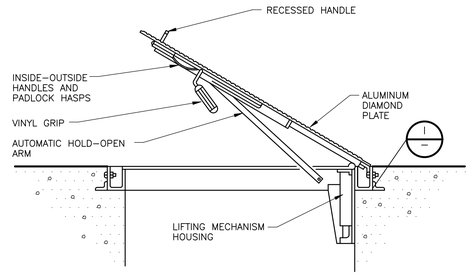
NTS



HIGH CURB W/ EXTERIOR HATCH DRAIN

DETAIL I

NTS



HATCH NOTES

1. ALUMINUM HATCHES TO BE SUPPLIED WITH STAINLESS STEEL HARDWARE.
2. ALL HATCHES TO BE SUPPLIED WITH SAFETY CHAINS. CORNER POST WITH FLOOR INSERTS MUST ALSO BE PROVIDED FOR SINGLE LEAF HATCHES.
3. USE HIGH CURB DESIGN FOR CLEARWELL.

SINGLE LEAF HATCH

DETAIL H

NTS

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: A. MASSAIS
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

MISCELLANEOUS MECHANICAL DETAILS II

PROJECT NO. 20790–289282
FILE NAME: MDO2MMDT.DWG

SHEET NO.
MD-2

ISSUED FOR BID

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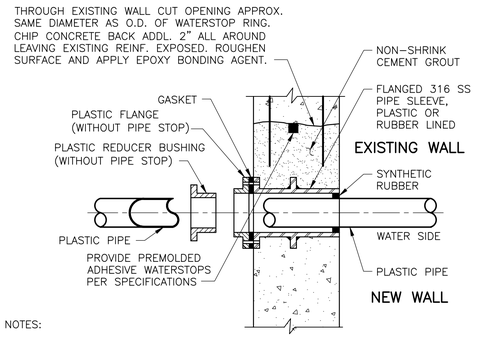


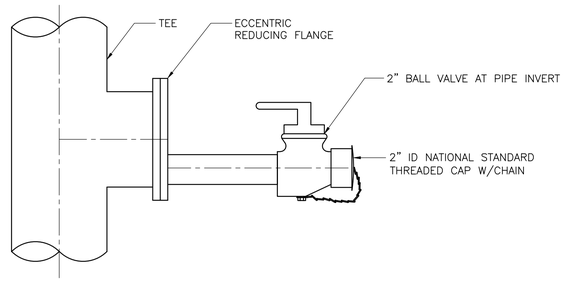
PLASTIC PIPE SIZE	OUTSIDE DIAMETER	WALL SLEEVE SIZE	FLANGE DIAMETER
3/4"	1.050"	2"	6"
1"	1.315"	2"	6"
1 1/4"	1.660"	3"	7 1/2"
1 1/2"	1.900"	3"	7 1/2"
2"	2.375"	4"	9"
3"	3.500"	4"	9"
4"	4.500"	6"	11"
6"	6.625"	8"	13 1/2"
8"	8.625"	10"	16"

NOTES:

1. IF WALL OR SLAB IS LINED W/PVC LINER, PVC PIPE SHALL BE BONDED TO PVC LINER.
2. SOLVENT WELD BUSHING TO PIPE AND PLASTIC FLANGE TO BUSHING AND MAKE WATER TIGHT.
3. WALL SLEEVES INSTALLED IN BRICK, CMU OR CAVITY WALLS SHALL BE GROUTED IN PLACE WITH NON-SHRINK GROUT. APPLY BONDING AGENT TO CLEAN DRY SURFACES BEFORE PLACING GROUT.

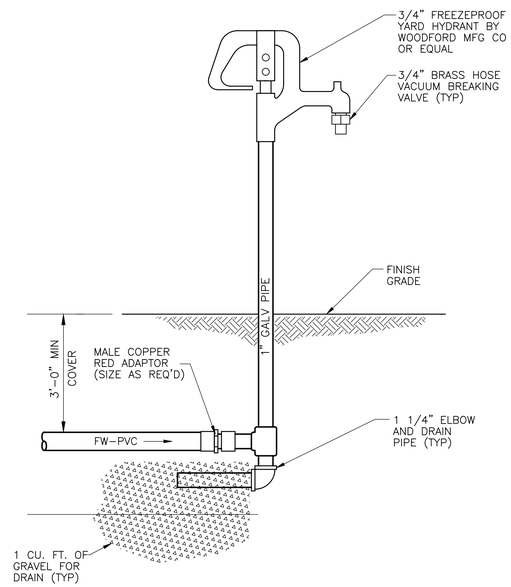
PLASTIC WALL PIPE PENETRATION

DETAIL A — NTS



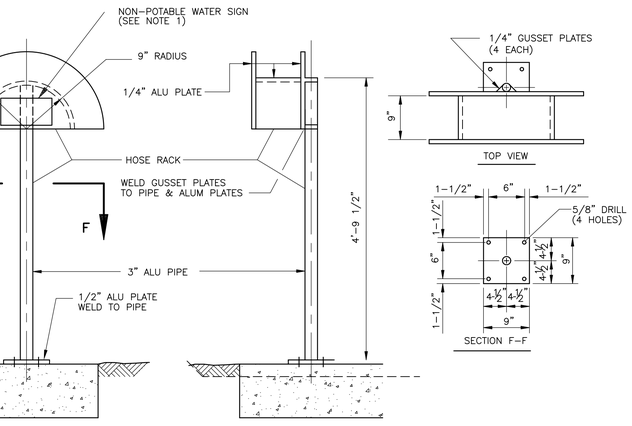
CLEANING CHEMICAL CONNECTION

DETAIL B — NTS



YARD HYDRANT

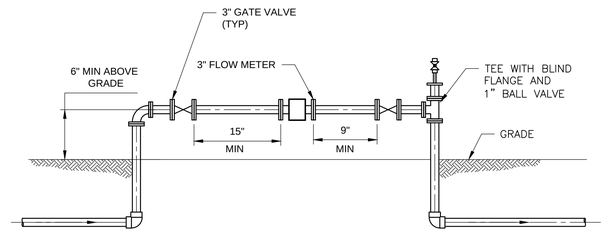
DETAIL C — NTS



NOTE:
1. ALL HOSE BIBS SHOULD BE CLEARLY LABELLED AS "NON-POTABLE. DO NOT DRINK".

HOSE RACK

DETAIL D — NTS



FLOW METER

DETAIL E — NTS

GEORGIA REGISTERED No. PE051142 PROFESSIONAL ENGINEER RYAN JAMES KEEFE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: R. KEEFE
DRAWN BY: R. VIGNESH
SHEET CHK'D BY: A. MASSAIS
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: R. KEEFE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

MISCELLANEOUS MECHANICAL DETAILS III

PROJECT NO. 20790-289282
FILE NAME: MD03MMDT.DWG

SHEET NO.
MD-3

ISSUED FOR BID

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GENERAL NOTES

DESIGN CRITERIA:

CODES:

- INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS
- ENVIRONMENTAL STRUCTURES: ACI 350-06 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES"
- OTHER STRUCTURES: ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- AISC STEEL CONSTRUCTION MANUAL, FIFTEENTH EDITION
- AISC 360-10 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
- TMS 402-2016 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

DESIGN LOADS:

LIVE LOADS:

• STAIRWAYS	100	PSF
• WALKWAYS	100	PSF
• PROCESS SLABS ON GRADE	300	PSF
• ELEVATED SLABS	200	PSF
• STORAGE AREAS AND ELECTRICAL ROOM	300	PSF
• GRATING AND COVER PLATE	100	PSF

ROOF SNOW LOAD:

• GROUND SNOW LOAD, P_g	0 PSF
• FLAT SNOW LOAD, P_F	0 PSF
• SNOW EXPOSURE FACTOR, C_E	1.0
• SNOW LOAD IMPORTANCE FACTOR, Is	1.10
• THERMAL FACTOR, C_T	SEE DRAWINGS

SUPERIMPOSED DEADLOADS:

• ROOFS	AS NOTED
• FLOORS	AS NOTED

WIND DESIGN DATA: ASCE 7-16

• ULTIMATE DESIGN WIND SPEED, V_{ult} (3 SECOND GUST)	122 MPH
• NOMINAL DESIGN WIND SPEED, V_{asd}	95 MPH
• RISK CATEGORY	III
• WIND EXPOSURE CATEGORY	C
• ENCLOSURE CLASSIFICATION	SEE DESIGN DRAWINGS
• INTERNAL PRESSURE COEFFICIENT	SEE DESIGN DRAWINGS

FLOOD DESIGN DATA:
- PER NFIP FIRM MAP NO. 13185C0220E, PANEL 220 OF 400, DATED SEPTEMBER 26, 2008, NOT IN A FLOOD ZONE

EARTHQUAKE:

• RISK CATEGORY	III
• SITE CLASS	D
• SEISMIC DESIGN CATEGORY	B
• SEISMIC IMPORTANCE FACTOR, I_E	1.25
• MAPPED SPECTRAL RESPONSE ACC, S_S	0.09
• MAPPED SPECTRAL RESPONSE ACC, S_1	0.055
• SPECTRAL RESPONSE COEFFICIENT, S_{DS}	0.096
• SPECTRAL RESPONSE COEFFICIENT, S_{D1}	0.087
• SEISMIC-FORCE-RESISTING SYSTEM	SEE DESIGN DRAWINGS
• DESIGN BASE SHEAR	SEE DESIGN DRAWINGS
• SEISMIC RESPONSE COEFFICIENT, C_S	SEE DESIGN DRAWINGS
• RESPONSE MODIFICATION FACTOR, R	SEE DESIGN DRAWINGS
• ANALYSIS PROCEDURE USED	SEE DESIGN DRAWINGS

CONCRETE 28-DAY STRENGTH:

• STRUCTURAL CONCRETE	4500 PSI
• MASONRY FILLED CELL GROUT	2500 PSI
• CONCRETE FILL AND ENCASEMENT	2500 PSI

FOUNDATIONS:

- ALLOWABLE BEARING PRESSURE FOR STRIP AND MAT FOUNDATIONS OVER SUBSURFACE PREPARED AS PER DRAWINGS AND SPECIFICATIONS:

• MAT FOUNDATION	1,000 PSF
• STRUCTURAL FILL	3,000 PSF
• STRIP FOOTINGS	2,000 PSF
• DEGASIFICATION COMPLEX NO. 1	2,000 PSF
• OPERATIONS BUILDING	2,000 PSF
• HIGH SERVICE PUMP STATION	2,700 PSF
• CHEMICAL STORAGE AREA	2,000 PSF
• CHEMICAL INJECTION VAULT	2,000 PSF
• MISCELLANEOUS SLABS-ON-GRADE	2,000 PSF

GENERAL CONDITIONS:

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, CIVIL, ELECTRICAL AND SHOP DRAWINGS AND SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FACILITY, SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.

FOR ALL ITEMS EMBEDDED IN OR PASSED THROUGH CONCRETE, THE CONTRACTOR SHALL INITIALLY REFER TO ARCHITECTURAL, ELECTRICAL, MECHANICAL, HEATING AND VENTILATION DRAWINGS AND APPROVED SHOP DRAWINGS FOR TYPE, SIZE, LOCATION AND SPECIAL INSTALLATION REQUIREMENTS FOR THESE ITEMS.

THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATION AND OTHERS.

SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.

ANY EQUIPMENT THAT MAY INDUCE VIBRATION TO THE STRUCTURE SHALL BE ADEQUATELY ISOLATED FROM THE STRUCTURES.

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSE-WHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

STANDARD DETAILS APPLY TO ALL SIMILAR SITUATIONS ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

ALL PIPES UNDER SOIL SUPPORTED STRUCTURE SLABS AND FOOTINGS SHALL BE ENCASED IN CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS. PIPES SHALL BE PRESSURE TESTED BEFORE ENCASING.

ELECTRICAL CONDUIT, PIPING, WASH HOSE STATIONS, HOSE RACKS, CONTROL PANELS, LIGHT FIXTURES, ENCLOSURES OR ANY OTHER APPURTENANCE, SHALL NOT BE DIRECTLY SUPPORTED OFF OF GUARDRAIL UNLESS EXPLICITLY ALLOWED BY THE STRUCTURAL ENGINEER OF RECORD.

CONCRETE:

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 REQUIREMENTS.

ALL CONCRETE SHALL BE AIR-ENTRAINED.

WATER REDUCING AGENT SHALL BE IN ACCORDANCE WITH ASTM C494.

ALL CONCRETE SURFACES EXPOSED TO AIR, UNLESS OTHERWISE NOTED IN SPECIFICATIONS, SHALL BE TREATED WITH AN APPROPRIATE CURING COMPOUND AS SOON AS CEMENT FINISHING IS COMPLETED OR FORMS ARE REMOVED.

ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE A MINIMUM CHAMFER OF 3/4" UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR THE LOCATION OF CONSTRUCTION JOINTS THAT ARE NOT SHOWN ON THE DRAWING.

REINFORCING STEEL:

REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 REQUIREMENTS.

ALL ACCESSORIES SHALL BE IN CONFORMANCE WITH ACI 315 REQUIREMENTS. REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER UNLESS OTHERWISE NOTED:

• CONCRETE CAST AGAINST EARTH	3"
• FORMED SURFACES IN CONTACT WITH SOIL, SEWAGE, WATER OR EXPOSED TO WEATHER	2"
• FORMED SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL:	
SLABS, WALLS AND JOISTS	3/4"
BEAMS AND COLUMNS	1-1/2"

LAP SPLICES SHALL BE AS SHOWN ON THE DRAWINGS. FOR LAP SPLICES NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL.

THE CONTRACTOR SHALL PREPARE PLACING DRAWINGS AND SCHEDULES IN CONFORMANCE WITH ACI 315 REQUIREMENTS.

CONCRETE MASONRY:

DESIGN CRITERIA:

- DESIGN COMPRESSIVE STRENGTH OF MASONRY AT 28 DAYS f'm = 2,000 PSI
- ALLOWABLE STEEL STRESS fs = 25,600 PSI

CONTINUOUS INSPECTION IS REQUIRED FOR ALL MASONRY WORK.

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS AND:

- TMS 402-16 "BUILDING CODE FOR MASONRY STRUCTURES."
- SPECIFICATION 042200

MATERIALS:

- BLOCK: CONFORM TO ASTM C90 - LOAD BEARING, NORMAL WEIGHT TWO CELL, 8"x8"x16" AND 12"x8"x16" (COMPRESSIVE STRENGTH, NET AREA 2,000 PSI)
- MORTAR: CONFORM TO ASTM C270, TYPE S. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS - 2,000 PSI. UTILIZE TYPE II CEMENT AND TYPE S LIME.
- STEEL: LADDER TYPE JOINT REINFORCEMENT AT EVERY SECOND COURSE (16" OC). BOND BEAM AND FILLED CELL REINFORCEMENT AS PER DRAWINGS. (ASTM A615, GRADE 60).

CONSTRUCTION:

- ALL FILLED CELLS AND COLUMNS SHALL BE POURED AT LEAST (2) HOURS PRIOR TO POURING LINTEL BLOCK OR TIE BEAMS.
- MAXIMUM CONSTRUCTION HEIGHT OF MASONRY WALLS WITHOUT FILLED CELL OR COLUMN POURS IS TO BE 8'-0". THE CONCRETE FOR FILLED CELLS SHALL BE RODDED OR PUDDLED DURING PLACEMENT TO ENSURE COMPLETE FILLING TO THE BLOCK CORE.
- SEE STANDARD DETAILS AND ARCHITECTURAL DRAWINGS FOR LINTEL REQUIREMENTS OVER OPENINGS.
- PROVIDE CLEAN OUT AND INSPECTION BLOCK OUTS IN CELLS CONTAINING REINFORCEMENT.

WATERTIGHTNESS TESTING REQUIREMENTS:

- THE WATER-CONTAINING STRUCTURES SHALL BE FILLED WITH POTABLE WATER AND TESTED FOR WATERTIGHTNESS PER SPECIFICATION SECTION 018819.
- PERFORM WATERTIGHTNESS TESTING PRIOR TO WATERPROOFING AND DAMPPROOFING, INSTALLATION OF COATINGS AND LININGS, AND PRIOR TO PLACING BACKFILL AROUND STRUCTURES.
- ALL SEEPING CRACKS SHALL BE INJECTED WITH WATER ACTIVATED HYDROPHILIC POLYURETHANE GROUT UNTIL SEEPAGE STOPS.

STRUCTURAL STEEL:

DESIGN, FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND DESIGN DRAWINGS.

ALL STRUCTURAL STEEL:

• W SHAPES -	ASTM A992
• M, S AND HP SHAPES -	ASTM A36
• CHANNELS AND ANGLES -	ASTM A36
• HSS (SQUARE, RECTANGULAR AND ROUND) -	ASTM A500
• PLATES -	ASTM A36
• HIGH-STRENGTH BOLTS -	ASTM F3125
• TENSION CONTROL BOLTS -	ASTM F1852
• NUTS -	ASTM A563
• HARDENED STEEL WASHER -	ASTM F436
• ANCHOR RODS -	ASTM F1554
• THREADED RODS -	ASTM A36

ALL PIPE: ASTM A53, GRADE B.

THE FABRICATOR SHALL DESIGN AND DETAIL ALL PARTS OF CONNECTIONS NOT FULLY DETAILED ON THE DESIGN DRAWINGS. THE NUMBER OF BOLTS AND OTHER SIMILAR ELEMENTS SHOWN ON THE DRAWING ARE PICTORIAL ONLY.

SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS STRUCTURAL WELDING CODE REQUIREMENTS. ELECTRODES SHALL BE E-70XX.

STRUCTURAL ALUMINUM:

DESIGN, FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST "ALUMINUM DESIGN MANUAL" (ADM) SPECIFICATIONS AND DESIGN DRAWINGS.

ALL STRUCTURAL ALUMINUM:

• ALUMINUM EXTRUDED PIPE -	ASTM B429, ALLOY 6063-T6 OR ALLOY 6061-T6
• ALUMINUM EXTRUDED SHAPE -	ASTM B221, ALLOY 6061-T6
• ALUMINUM SHEET AND PLATE -	ASTM B209, ALLOY 6061-T6
• ALUMINUM ALLOY ROLLED THREAD PLATE -	ASTM B632, ALLOY 6061-T6
• ALUMINUM CASTING -	ASTM B26/B26M, ALLOY A350.6-T6

SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS D1.2/D1.2M "STRUCTURAL WELDING CODE - ALUMINUM".

WHERE ALUMINUM CONTACTS A DISSIMILAR METAL, APPLY TO THE DISSIMILAR METAL A HEAVY BRUSH COAT OF ZINC-CHROMATE PRIMER FOLLOWED BY TWO COATS OF ALUMINUM METAL PAINT.

WHERE ALUMINUM CONTACTS MASONRY OR CONCRETE, APPLY A HEAVY COAT OF BITUMASTIC OR EPOXY PAINT.

FLOTATION CONSIDERATION:

STRUCTURES WERE DESIGNED TO BE NON-BUOYANT AFTER THE STRUCTURE IS PLACED INTO SERVICE. THEREFORE, THE STRUCTURE MAY BE BUOYANT DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL PROTECT ALL STRUCTURES (NEW AND EXISTING) FROM FLOTATION DURING CONSTRUCTION, REGARDLESS OF GROUNDWATER LEVELS, UNTIL STRUCTURES ARE PLACED IN OPERATION.

GEOTECHNICAL REPORT:

GEOTECHNICAL ENGINEERING REPORT ENTITLED, "VALDOSTA WATER TREATMENT PLANT," BY TTL, INC, DATED JUNE 5, 2024. GEOTECHNICAL REPORT AVAILABLE UPON REQUEST.

FOUNDATION PREPARATION:

ALL CONCRETE FOUNDATIONS AND SLAB-ON-GRADE SHALL BE PLACED ON GRADED AGGREGATE BASE OR COMPACTED STRUCTURAL FILL MEETING STRUCTURAL FILL CRITERIA. INSTALL 6oz NON-WOVEN GEOTEXTILE FABRIC BETWEEN AGGREGATE AND NATIVE SOIL OR STRUCTURAL FILL.

REFER TO SPECIFICATION SECTION 312000 FOR STRUCTURAL FILL REQUIREMENTS.

UNSUITABLE SOILS SHALL BE REMOVED TO THE LIMITS SHOWN OR AS ENCOUNTERED AND REPLACED WITH STRUCTURAL FILL COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY PER ASTM 698.

STRUCTURAL FILL SHOULD EXTEND 5-FEET BEYOND THE EDGE OF THE FOOTING, THEN AT A SLOPE OF ONE HORIZONTAL TO ONE VERTICAL TO SUITABLE BEARING SOILS, AS SHOWN ON THE DRAWINGS.

DELEGATED SUBMITTALS:

1. THE FOLLOWING PORTIONS OF THE PROJECT ARE DELEGATED SUBMITTAL ITEMS AND HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD:
   a. EQUIPMENT, TANK AND PIPE SUPPORT ANCHORAGE
   b. RAILING SYSTEMS
   c. TANK RESTRAINTS
   d. PRE-ENGINEERED CANOPY
   e. PRESTRESSED WIRE-WRAPPED GROUND STORAGE TANK
   f. FRP COMPONENTS
   g. WALL MOUNTED CANOPY
   h. PRE-ENGINEERED COLD FORMED STEEL TRUSS
1. DELEGATED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW DURING THE CONSTRUCTION PHASE OF THE PROJECT.
2. DELEGATED SUBMITTAL ITEMS SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.
3. DELEGATED SUBMITTAL ITEMS SHALL NOT BE ERECTED OR INSTALLED UNTIL THE ENGINEER OF RECORD HAS REVIEWED THE SUBMITTAL DOCUMENTS AND INDICATED THAT THEY HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE STRUCTURE.

LEGEND AND SYMBOLS

WATERSTOP
HOUSEKEEPING PAD SEE A/SD-2
GRATING SPAN DIRECTION
EARTH FILL
UNDISTURBED EARTH
CONCRETE
CONCRETE MASONRY
STRUCTURAL FILL
ALUMINUM
AL GRATING
FRP GRATING
CHECKERED PLATE
SAND
GRANULAR FILL
DEMOLITION

ABBREVIATIONS

#	NUMBER	JT	JOINT
&	AND	LG	LENGTH
@	AT	LLH	LONG LEG HORIZONTAL
AB	ANCHOR BOLT	LLV	LONG LEG VERTICAL
ADDL	ADDITIONAL	LOC(S)	LOCATION(S)/LOCATED
ALUM/AL	ALUMINUM	LP	LOW POINT
ALT	ALTERNATE (ING)	MAS	MASONRY
APPROX	APPROXIMATELY	MAX	MAXIMUM
BOT	BOTTOM	MFR	MANUFACTURER
BRG	BEARING	m/s	METERS PER SECOND
B/W	BETWEEN	MPH	MILES PER HOUR
CJ	CONSTRUCTION JOINT	MIN	MINIMUM
CL	CENTERLINE	MO	MASONRY OPENING
CLJ	CONTROL JOINT	NS	NON-SHRINK
CLR	CLEAR	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNITS	OC	ON CENTER
COL	COLUMN	OH	OVERHEAD
CONC	CONCRETE	OPNG	OPENING
CONN	CONNECTION	PCJ	PARTIAL CONTRACTION JOINT
CONT	CONTINUOUS	PREFAB	PREFABRICATED
DET	DETAIL	PROJ	PROJECTION
DIA	DIAMETER	PLG	POUNDS PER LINEAR FOOT/FEET
DIAG	DIAGONAL	PSF	POUNDS PER SQUARE FOOT/FEET
DL	DEAD LOAD	R	RISER(S)
DWG	DRAWING	REF	REFERENCE/REFER
DWL	DOWEL	REINF	REINFORCE (D, ING)
EA	EACH	REQD	REQUIRED
EB	EXPANSION BOLT	REV	REVISION
EF	EACH FACE	SECT	SECTION
EL	ELEVATION	SIM	SIMILAR
EMBED	EMBEDMENT	SP	SPACE (S, ED)
EQ	EQUAL (LY)	SQ	SQUARE
EQUIP	EQUIPMENT	SS	STAINLESS STEEL
ES	EACH SIDE	STD	STANDARD
EW	EACH WAY	STIF	STIFFENER
EXST	EXISTING	STIR	STIRRUP (S)
EXP JT	EXPANSION JOINT	STL	STEEL
EXT	EXTERIOR	SYM	SYMMETRICAL
f'c	CONCRETE COMPRESSION STRESS	T	TREAD(S)
f'm	MASONRY PRISM STRESS	T/	TOP OF
FAB	FABRICATE (OR, ED)	T&B	TOP AND BOTTOM
FDN	FOUNDATION	TF	TOP FACE
FT	FEET	THD	THREADED
FH	FLATHEAD	TOC	TOP OF CONCRETE
FL	FLOOR	TRNSV	TRANSVERSE
FRP	FIBERGLASS REINFORCED PLASTIC	TYP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VB	VAPOR BARRIER
GR	GRADE	VERT	VERTICAL
GRTG	GRATING	VIF	VERIFY IN FIELD
H	HIGH	W/	WITH
HAS.	HEADED ANCHOR STUD	W/O	WITHOUT
HDR	HEADER	WD	DRIFT WIDTH
HOR/HORIZ	HORIZONTAL	WP	WORKING POINT
HP	HIGH POINT	WSTP	WATERSTOP
IDE	INSIDE	WWF	WELDED WIRE FABRIC
I.E.	INVERT ELEVATION		

ABBREVIATION NOTES:

1. ABBREVIATIONS AND DESIGNATIONS FOR STEEL MEMBERS MAY BE FOUND IN THE CURRENT MANUAL OF STEEL CONSTRUCTION BY AISC.
2. ABBREVIATIONS OF TECHNICAL SOCIETIES AND TRADE ASSOCIATIONS MAY BE FOUND IN THE SPECIFICATIONS.
3. WELDING SYMBOLS AND ABBREVIATIONS MAY BE FOUND IN AWS 2.4.

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

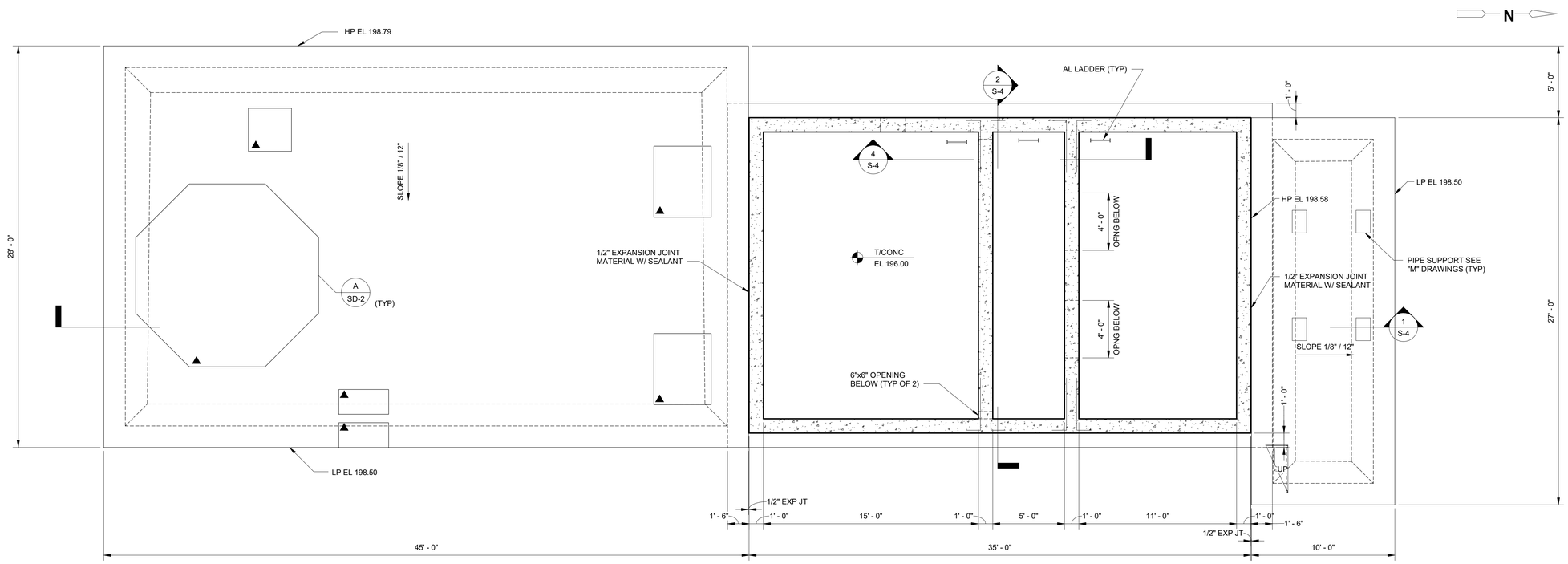
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GENERAL STRUCTURAL NOTES

PROJECT NO. 20790-289282
FILE NAME: S000STNT.RVT

SHEET NO.
S-1

ISSUED FOR BID



FOUNDATION PLAN (EL 198.50)

1/4" = 1'-0"

NOTE:

▲ INDICATES HOUSEKEEPING OR EQUIPMENT PAD. SEE DETAILS A/SD-2 AND B/SD-2. COORDINATE SIZE WITH SUPPLIED EQUIPMENT.

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

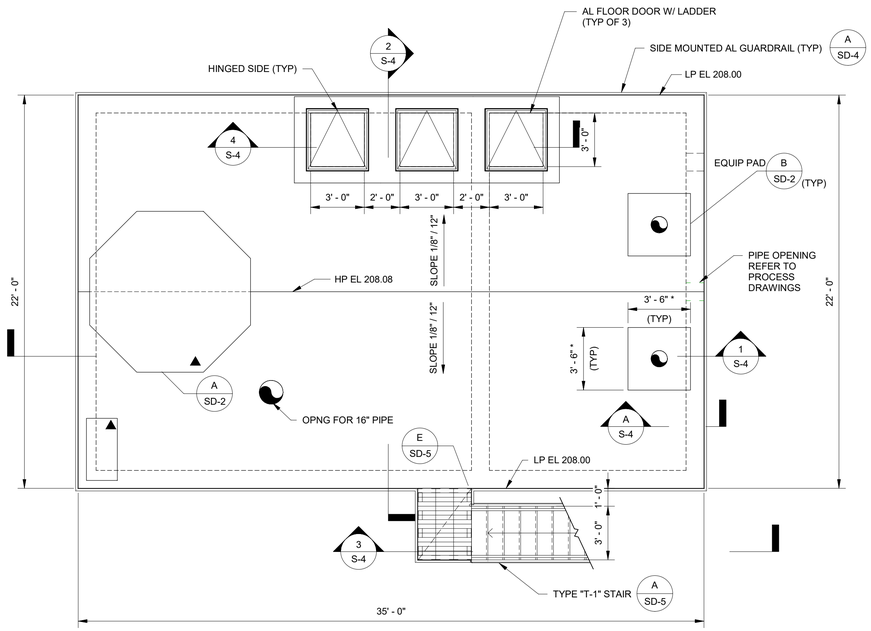
DEGASIFICATION COMPLEX NO. 1
FOUNDATION PLAN

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: SWZ000CW.RVT

SHEET NO.
S-2

ISSUED FOR BID



TOP PLAN (EL 208.00)

1/4" = 1'-0"

N

NOTE:

1. * INDICATES DIMENSION AND/OR INFORMATION TO BE COORDINATED BY THE CONTRACTOR WITH THE MANUFACTURER OF THE APPROVED EQUIPMENT PRIOR TO FABRICATION AND CONSTRUCTION.

NOTE:

▲ INDICATES HOUSEKEEPING OR EQUIPMENT PAD.
SEE DETAILS A/SD-2 AND B/SD-2.
COORDINATE SIZE WITH SUPPLIED EQUIPMENT.

DESIGN LOAD DATA - DEGASIFICATION COMPLEX NO. 1

SEISMIC:

BASIC SEISMIC-FORCE-RESISTING SYSTEM:	ORDINARY REINFORCED CONCRETE SHEAR WALLS
DESIGN BASE SHEAR:	Cs*W
SEISMIC RESPONSE COEFFICIENT:	Cs: 0.005
RESPONSE MODIFICATION FACTOR:	R: 4
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE PROCEDURE

REFER TO SHEET S-1 FOR DESIGN LOAD DATA THAT IS THE SAME FOR ALL STRUCTURES.

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

REV. NO.	DATE	DRWN	CHKD	REMARKS

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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

DEGASIFICATION COMPLEX NO. 1
TOP PLAN

PROJECT NO. 20790-289282
FILE NAME: SWZ000CW.RVT

SHEET NO.
S-3

ISSUED FOR BID

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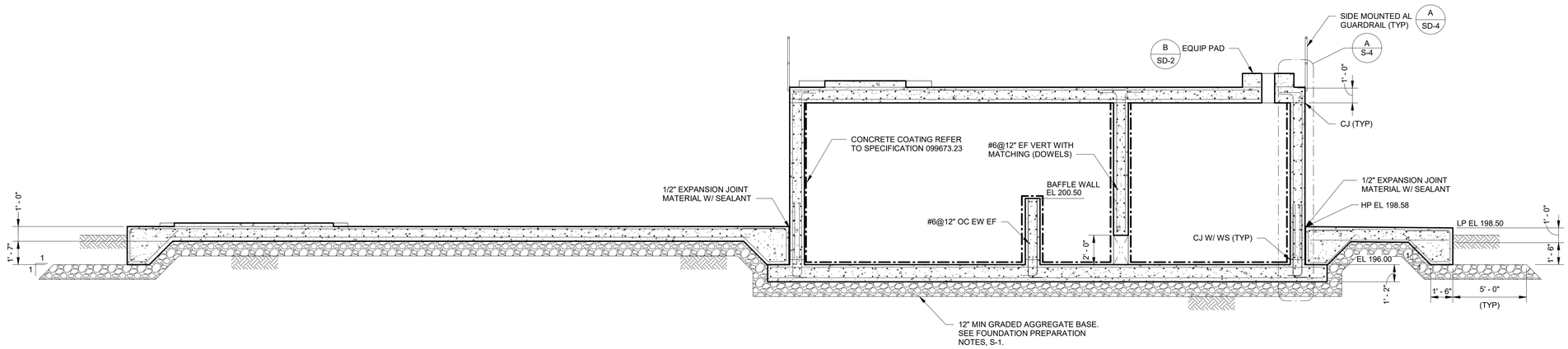
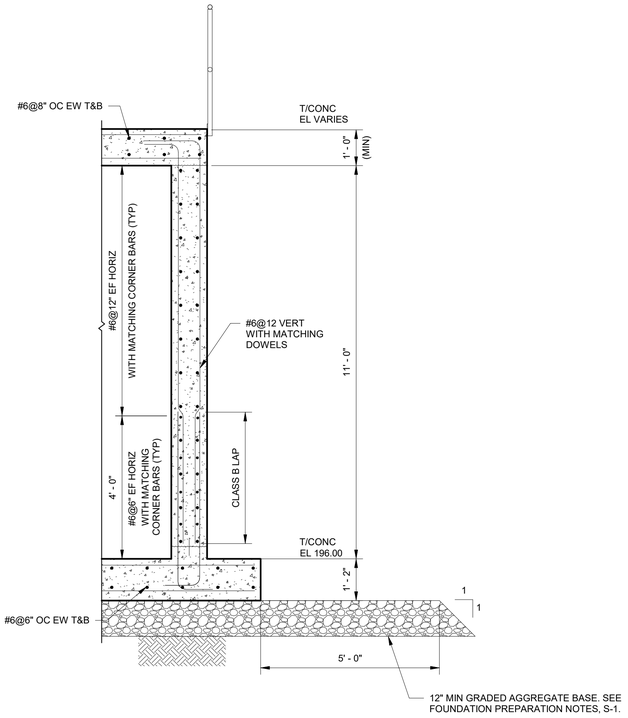
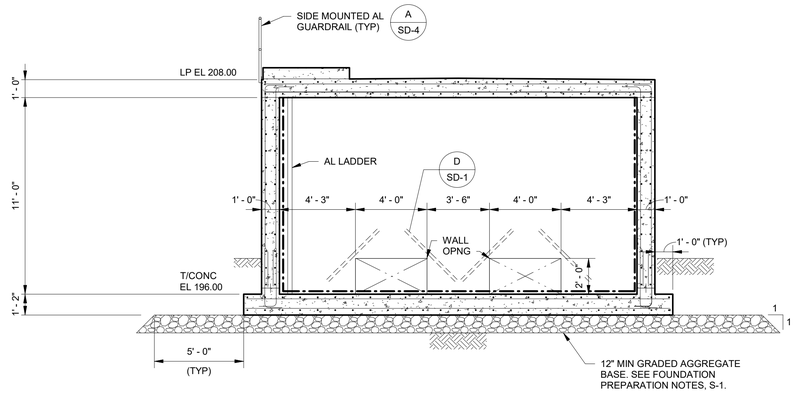


1 SECTION
1/4" = 1'-0"

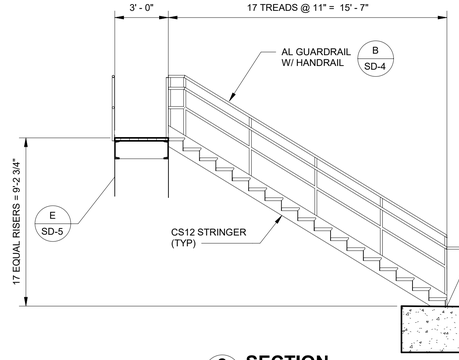


TYPICAL EXTERIOR WALL AND SLAB REINFORCEMENT

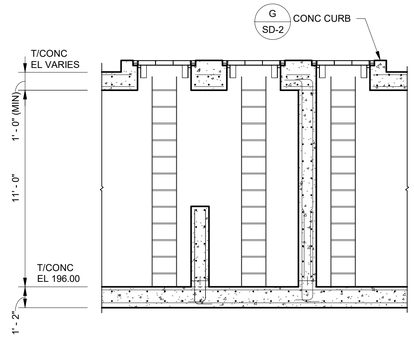
A DETAIL
1/2" = 1'-0"



2 SECTION
1/4" = 1'-0"



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



4 SECTION
1/4" = 1'-0"

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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

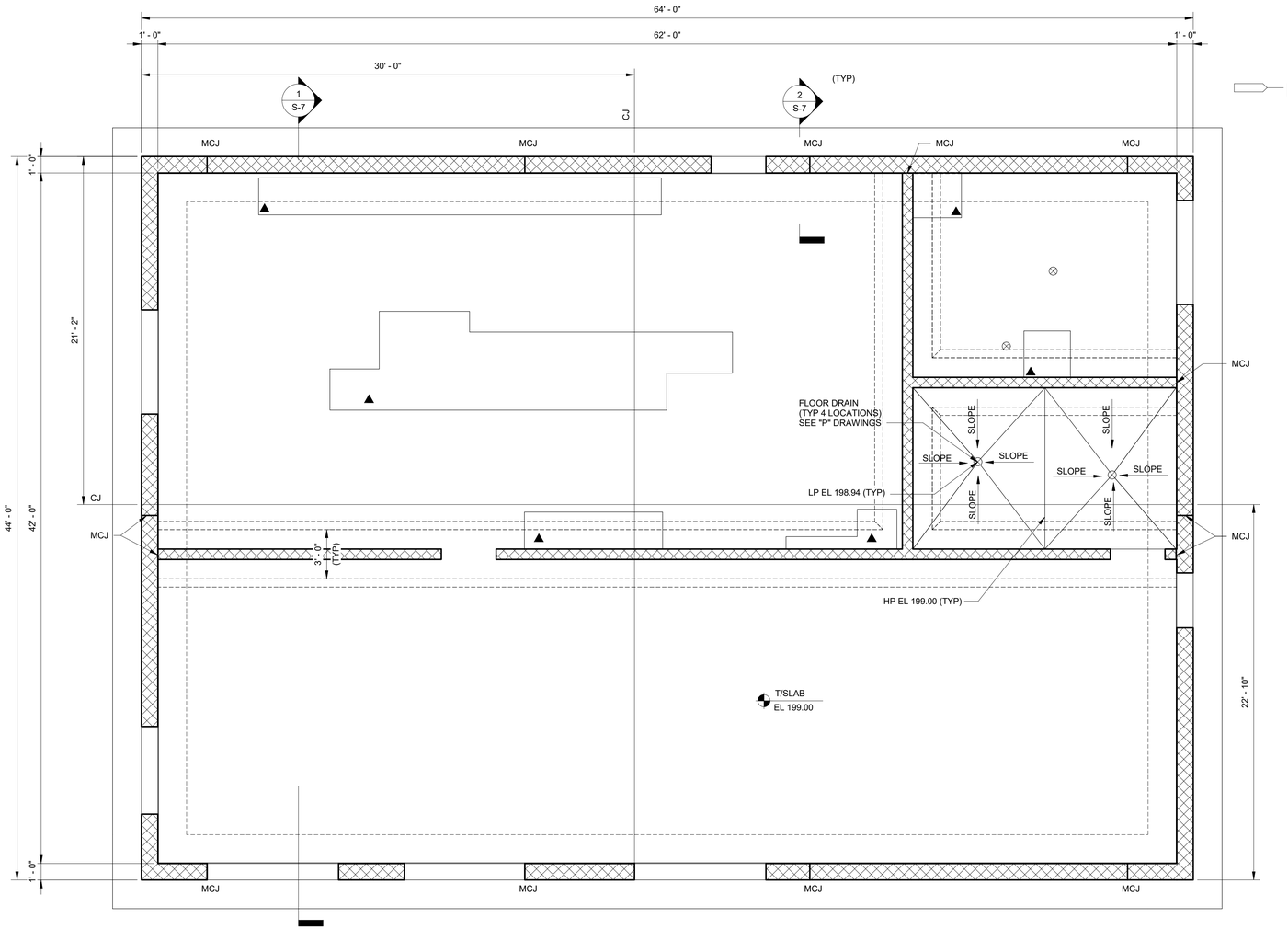
DEGASIFICATION COMPLEX NO. 1
SECTIONS AND DETAILS

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: SWZ000CW.RVT

SHEET NO.
S-4

ISSUED FOR BID



FOUNDATION PLAN

1/4" = 1'-0"

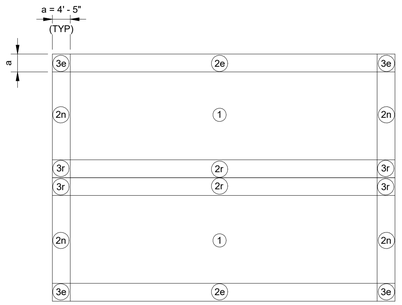
NOTE:

▲ INDICATES HOUSEKEEPING OR EQUIPMENT PAD. SEE DETAILS A/SD-2 AND B/SD-2. COORDINATE SIZE WITH SUPPLIED EQUIPMENT.

DESIGN LOAD DATA - OPERATIONS BUILDING

SEISMIC:	
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR:	Cs*W
SEISMIC RESPONSE COEFFICIENT:	Cs: 0.035
RESPONSE MODIFICATION FACTOR:	R: 3.5
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE PROCEDURE
WIND DESIGN DATA:	
ENCLOSURE CLASSIFICATION:	PARTIALLY OPEN
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18

REFER TO SHEET S-1 FOR DESIGN LOAD DATA THAT IS THE SAME FOR ALL STRUCTURES.



C&C ROOF PRESSURE PLAN

NTS

C&C WALL PRESSURE ELEVATION

NTS

WIND PRESSURE (PSF) FOR COMPONENT AND CLADDING (Vult)																						
EFFECTIVE WIND AREA (SQ. FT.)	PRESSURE (+) / SUCTION (-) ROOF (PSF) ZONE 1			PRESSURE (+) / SUCTION (-) ROOF (PSF) ZONE 2e			PRESSURE (+) / SUCTION (-) ROOF (PSF) ZONE 2n			PRESSURE (+) / SUCTION (-) ROOF (PSF) ZONE 2r			PRESSURE (+) / SUCTION (-) ROOF (PSF) ZONE 3e			PRESSURE (+) / SUCTION (-) ROOF (PSF) ZONE 3r			PRESSURE (+) / SUCTION (-) WALL (PSF) ZONE 4		PRESSURE (+) / SUCTION (-) WALL (PSF) ZONE 5	
			OH			OH			OH			OH			OH			OH				
< 10.00	24.2	-59.9	-68.7	24.2	-59.9	-68.7	24.2	-87.4	-96.2	24.2	-87.4	-96.2	24.2	-87.4	-113.0	24.2	-104.0	-132.0	29.7	-32.1	29.7	-39.6
10 TO 20	19.8	-59.9	-68.7	19.8	-59.9	-68.7	19.8	-87.4	-96.2	19.8	-87.4	-96.2	19.8	-87.4	-113.0	19.8	-104.0	-132.0	29.7	-32.1	29.7	-39.6
20 TO 50	17.8	-59.9	-68.7	17.8	-59.9	-68.7	17.8	-75.6	-83.8	17.8	-75.6	-83.8	17.8	-75.6	-97.3	17.8	-89.0	-111.0	28.4	-30.8	28.4	-36.9
50 TO 100	15.2	-36.4	-59.5	15.2	-36.4	-59.5	15.2	-59.9	-67.4	15.2	-59.9	-67.4	15.2	-59.9	-77.0	15.2	-69.3	-83.9	26.6	-29.1	26.6	-33.5
>= 100	13.2	-18.7	-52.3	13.2	-18.7	-52.3	13.2	-48.1	-55.0	13.2	-48.1	-55.0	13.2	-48.1	-61.6	13.2	-54.4	-63.2	25.3	-27.8	25.3	-30.8

TABLE NOTES:

1. TO CONVERT ULTIMATE WIND PRESSURES TO NOMINAL WIND PRESSURES, MULTIPLY THE VALUES BY 0.6.

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
FOUNDATION PLAN

PROJECT NO. 20790-289282
FILE NAME: SWZ000OB.RVT

SHEET NO.
S-5

ISSUED FOR BID

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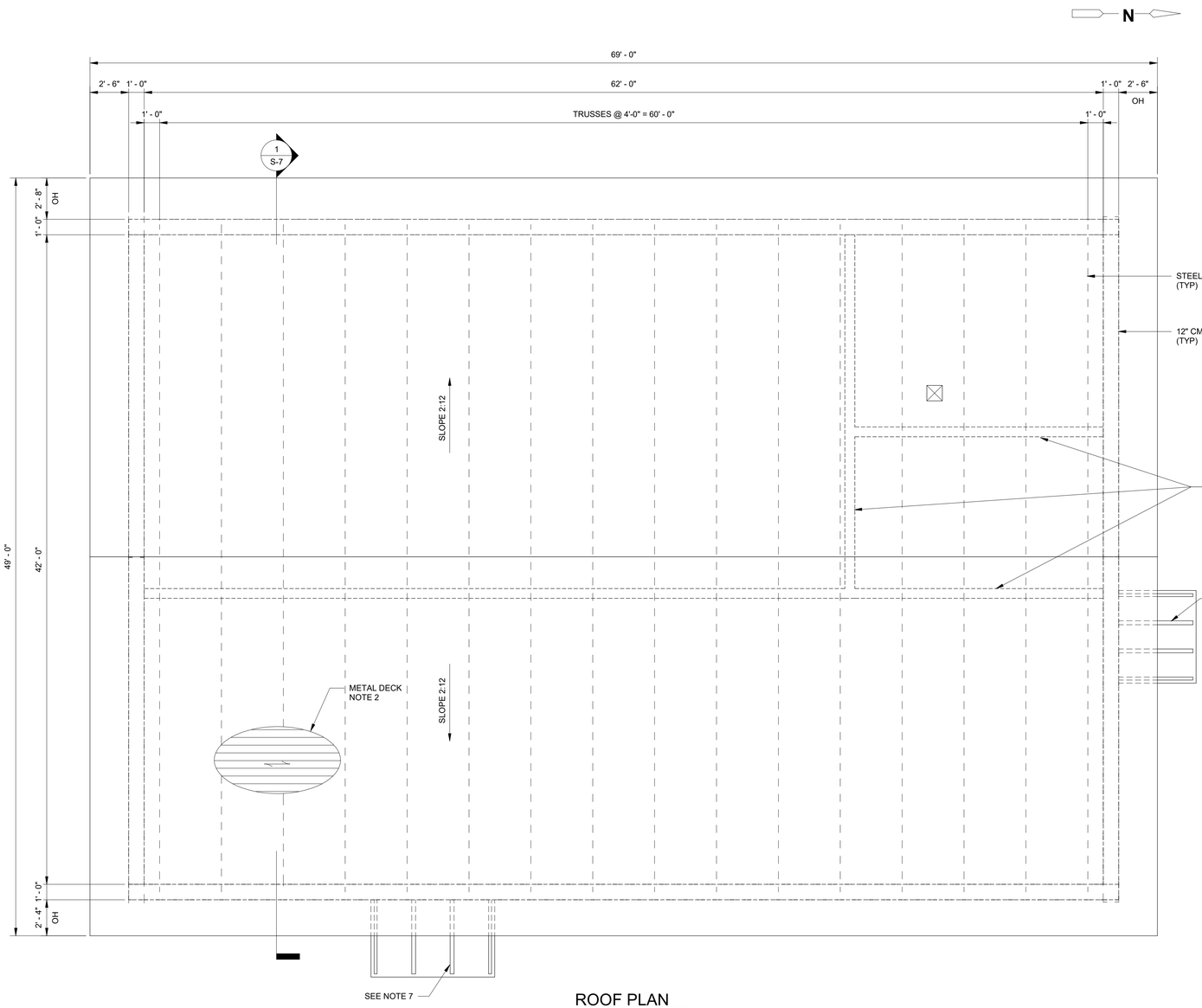
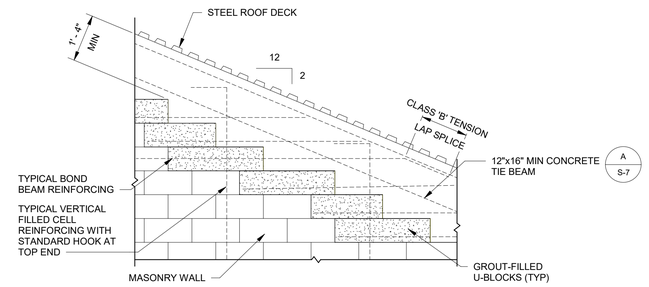


ROOF PLAN

1/4" = 1'-0"

NOTE:

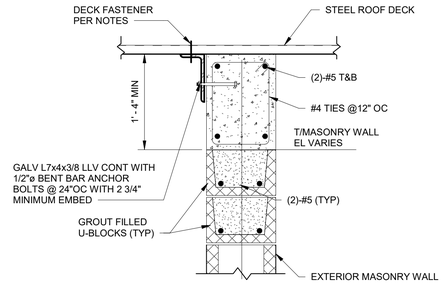
1. REFER TO SD-3 FOR STANDARD MASONRY DETAILS



TYPICAL EXTERIOR WALL CAP BEAM

A DETAIL

1/2" = 1'-0"



EXTERIOR WALL CONNECTION

B DETAIL

1" = 1'-0"

PRE-ENGINEERED COLD FORM STEEL TRUSS NOTES:

TRUSS MANUFACTURER TO DESIGN TRUSS IN CONFORMANCE WITH INTERNATIONAL BUILDING CODE, 2018, WITH GEORGIA AMENDMENTS

1. ROOF SYSTEM:

   ROOF SUPERIMPOSED LOADS (ASD):

DL (SUPERIMPOSED)	=	10 PSF
DL (DECK + SUPERIMPOSED)	=	20 PSF
SUPERIMPOSED LL (NON-REDUCIBLE)	=	20 PSF
NET WIND UPLIFT	=	-28 PSF
SNOW LOAD	=	0 PSF

2. ROOF DECK:

   A. GALVANIZED DECK: 1.5B, 20 GAGE, G60 BY VULCRAFT OR APPROVED EQUAL.

   B. SUPPORT FASTENERS:
   #12 SCREWS** 36/4 PATTERN OR APPROVED EQUAL.

   C. SIDELAP FASTENERS:
   (3)-#12 SCREWS SIDELAP CONNECTOR PER SPAN OR APPROVED EQUAL.

   ** COORDINATE FASTENER MODEL WITH TRUSS CHORD THICKNESS.

   ROOF FRAMING:

   PRE-ENGINEERED COLD FORM STEEL TRUSSES BASED ON 4 FT SPACING.

TOP CHORD SUPERIMPOSED DL (ASD)	80 PLF
TOP CHORD SUPERIMPOSED LL (ASD)	80 PLF
BOTTOM CHORD SUPERIMPOSED DL (ASD)	40 PLF

3. PRE-ENGINEERED COLD FORMED STEEL TRUSS CALCULATIONS (INCLUDING CONNECTIONS TO STRUCTURE) AND SHOP DRAWINGS, SHOWING ALL TEMPORARY AND PERMANENT BRACING, AND SHEAR BRACES/TRUSSES/BLOCKING TO TRANSFER DIAPHRAGM LOADS SHALL BE SIGNED AND SEALED BY A GEORGIA REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO ENGINEER FOR REVIEW.

4. REFER TO ARCHITECTURAL, HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL EQUIPMENT TO BE SUPPORTED BY THE TRUSSES. TRUSS DESIGNER TO USE ACTUAL WEIGHT OF EQUIPMENT PROVIDED.

5. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS WITH ARCHITECTURAL, HVAC AND PLUMBING DRAWINGS. FRAME ALL OPENINGS LARGER THAN 12" WITH COLD FORM STEEL FRAMING DESIGNED BY TRUSS MANUFACTURER.

6. SEE DESIGN DRAWINGS AND STANDARD DETAILS FOR FURTHER DESIGN AND LOAD REQUIREMENTS.

7. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATION SECTION 107316 FOR OVERHEAD CANOPY AT ENTRANCE. CANOPY SHALL NOT BE CONSTRUCTED UNTIL DRAWINGS AND REACTIONS HAVE BEEN SUBMITTED TO, REVIEWED AND APPROVED BY THE ENGINEER. PROVIDE CONTINUOUS BOND BEAM OR VERTICAL FILLED CELL AT LOCATIONS OF CANOPY ANCHORAGE. CANOPY'S ENGINEER SHALL PROVIDE ANCHORAGE DESIGN. SUBMIT DESIGN CALCULATIONS, SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN GEORGIA.

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

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CITY OF VALDOSTA, GA

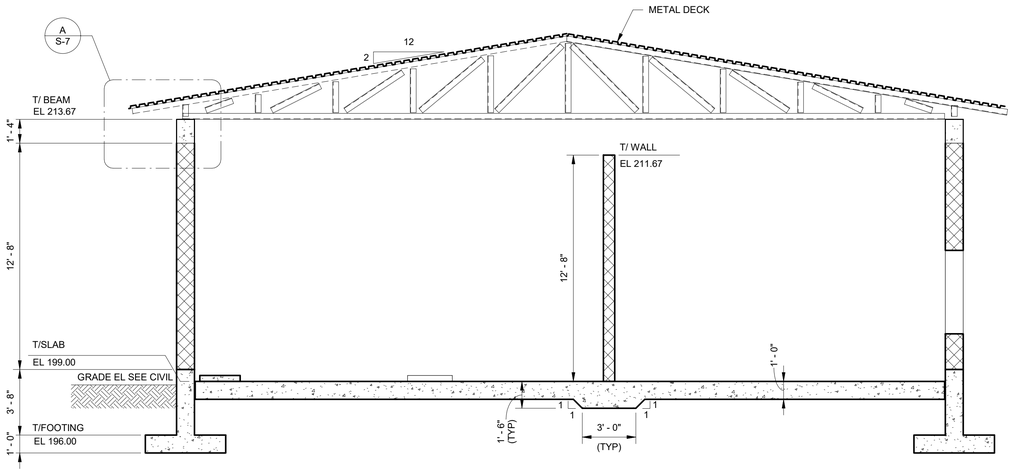
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
ROOF PLAN

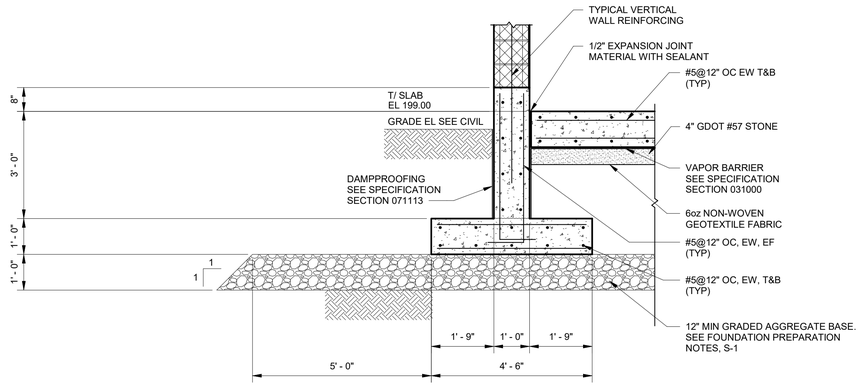
PROJECT NO. 20790-289282
FILE NAME: SWZ000OB.RVT

SHEET NO.
S-6

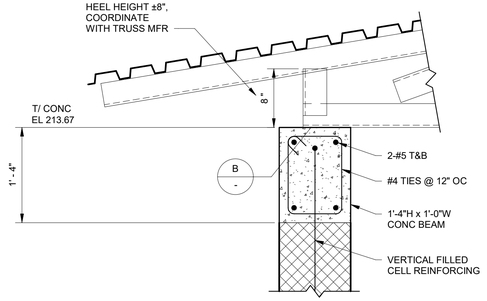
ISSUED FOR BID



1 SECTION S-5 1/4" = 1'-0"



2 SECTION S-5 1/2" = 1'-0"

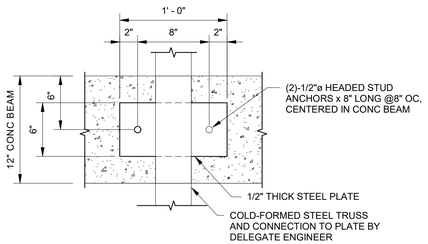


NOTE:

CONCRETE TIE BEAM CONSTRUCTION JOINTS TO MATCH MASONRY CONTROL JOINT (MCJ) LOCATIONS.

CONCRETE TIE BEAM

A – DETAIL 1" = 1'-0"



TYPICAL TRUSS BEARING AND ANCHORAGE

B – DETAIL 1 1/2" = 1'-0"

TRUSS CONNECTOR DESIGN FORCES

C – DETAIL 1" = 1'-0"

NOTES:

1. TRUSS TO WALL CONNECTIONS TO BE DESIGNED FOR THE FOLLOWING SIMULTANEOUS SERVICE LOADS:

   LOAD COMB 1: V_1=0.42 kip, V_2=0.92 kip, P_Y=2.5 kip

2. LOADS FOR TYPICAL TRUSS @ 4' - 0" OC
3. TRUSS SYSTEM SHALL BE CAPABLE OF TRANSFERRING VERTICAL AND HORIZONTAL LOADS ABOVE FROM DECK TO CMU WALL. TRUSS SYSTEM BY DELEGATE ENGINEER SHALL INCLUDE SHEAR BRACES/TRUSSES TO TRANSFER DIAPHRAGM LOADS.
4. TRUSS TO BEARING CONNECTION AS DETAILED ON THESE DRAWINGS IS PRELIMINARY UNTIL FINAL REACTIONS FROM DELEGATE ENGINEER ARE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.

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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

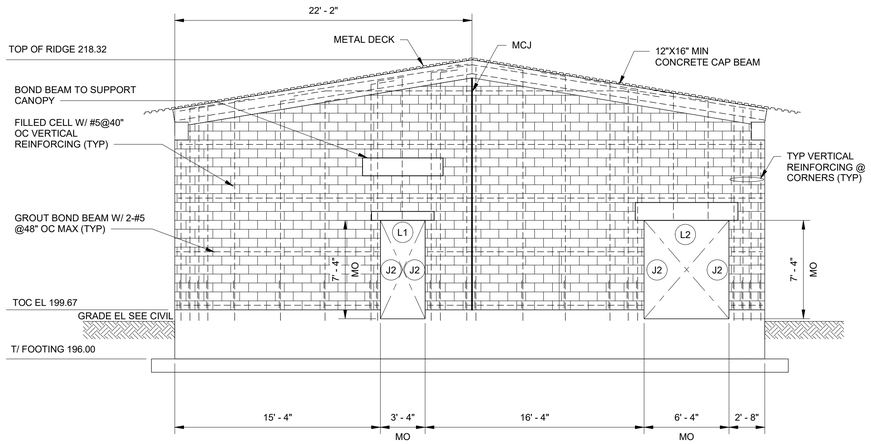
OPERATIONS BUILDING
SECTIONS AND DETAILS

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: SWZ000OB.RVT

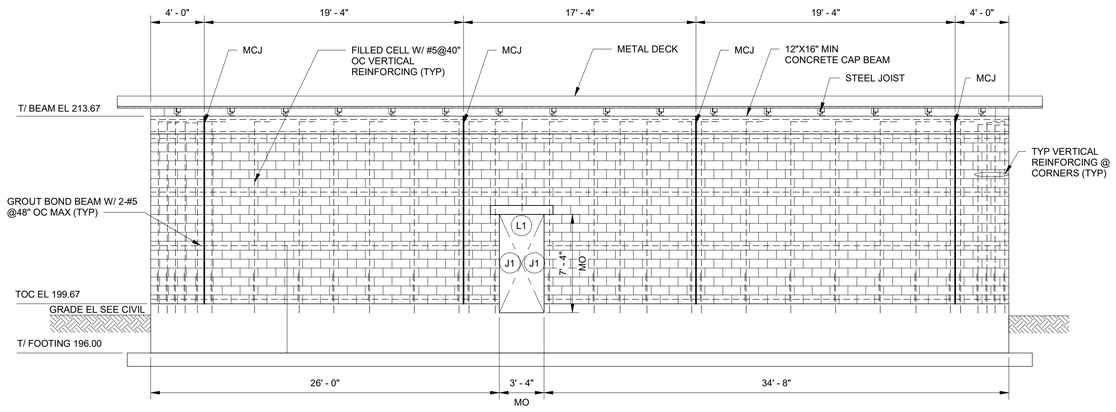
SHEET NO.
S-7

ISSUED FOR BID



NORTH ELEVATION FOR MAIN BUILDING

3/16" = 1'-0"



WEST ELEVATION FOR MAIN BUILDING

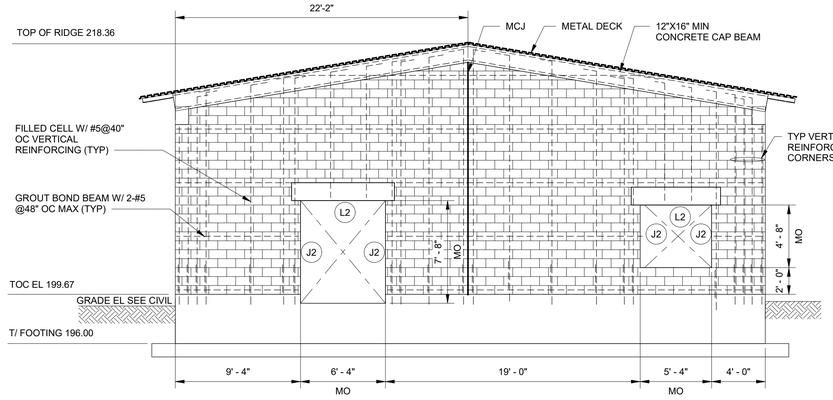
3/16" = 1'-0"

NOTE:

1. PROVIDE FULLY GROUTED CELLS AND VERTICAL REINFORCEMENT FOR ALL CELLS ON THIS WALL ONLY. JAMB, LINTEL, OPENING REINFORCEMENT IS STILL REQUIRED PER DETAILS ON SD -3

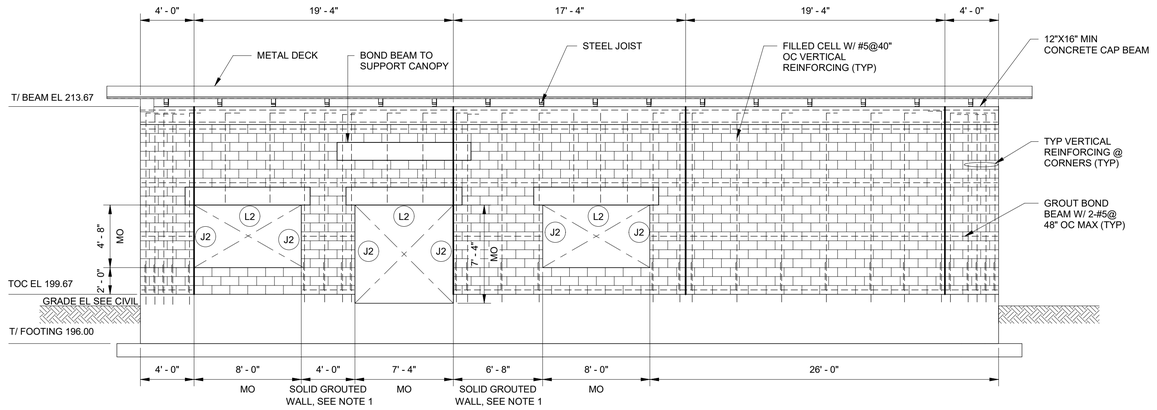
LEGEND

- (LX) LINTEL TYPE, DETAL F/SD-3
- (JX) JAMB TYPE, DETAIL H/SD-3 & K/SD-3
- (X) OPENING LABEL



SOUTH ELEVATION FOR MAIN BUILDING

3/16" = 1'-0"



EAST ELEVATION FOR MAIN BUILDING

3/16" = 1'-0"

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
MASONRY ELEVATIONS

PROJECT NO. 20790-289282
FILE NAME: SW2000OB.RVT

SHEET NO.
S-8

ISSUED FOR BID

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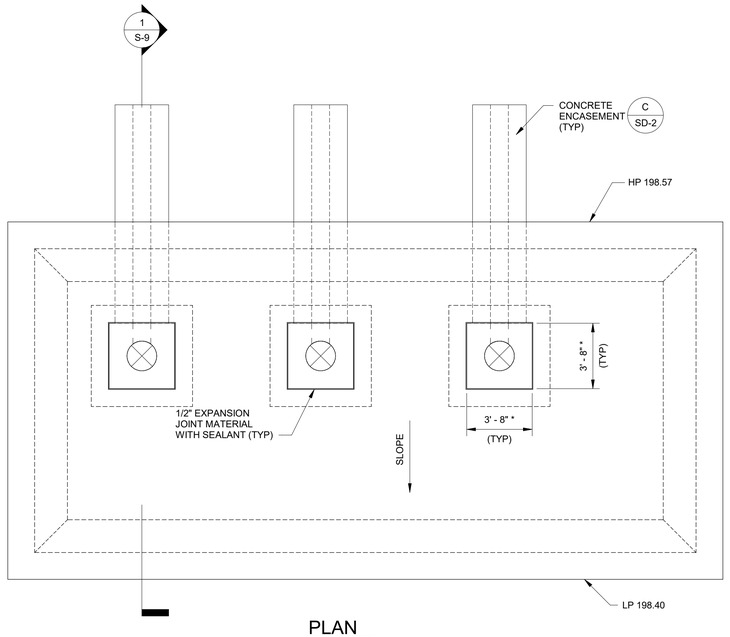
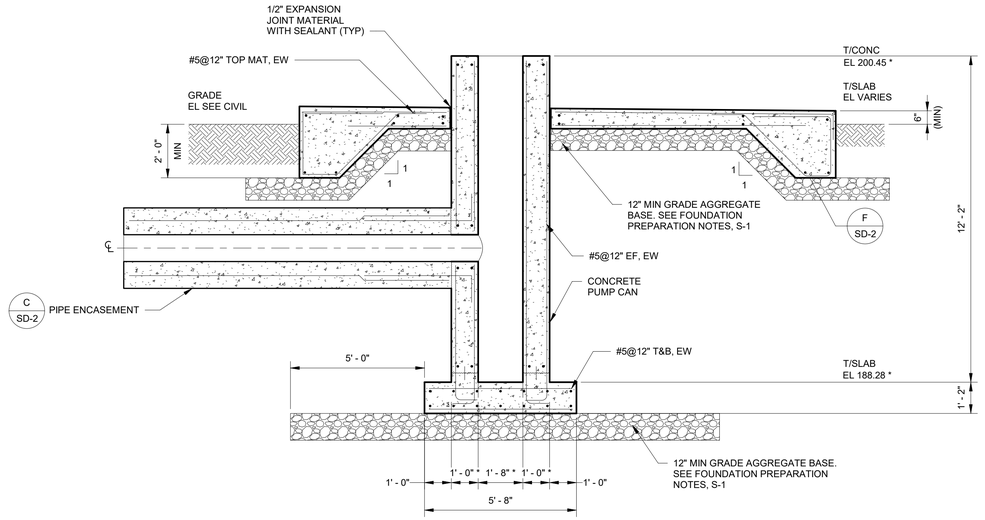


PLAN
1/4" = 1'-0"

N

NOTES:

1. * INDICATES DIMENSIONS AND/OR INFORMATION TO BE COORDINATED BY THE CONTRACTOR WITH AN APPROVED EQUIPMENT MANUFACTURER PRIOR TO FABRICATION AND CONSTRUCTION.
2. PUMP ANCHORAGE SHALL BE DESIGNED BY A DELEGATE ENGINEER REGISTERED IN THE STATED OF GEORGIA.
3. CONCRETE PIPE SUPPORTS NOT SHOWN. REFER TO MECHANICAL DRAWINGS.



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

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
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4651 Salsbury Road, Suite 420
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VALDOSTA
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CITY OF VALDOSTA, GA

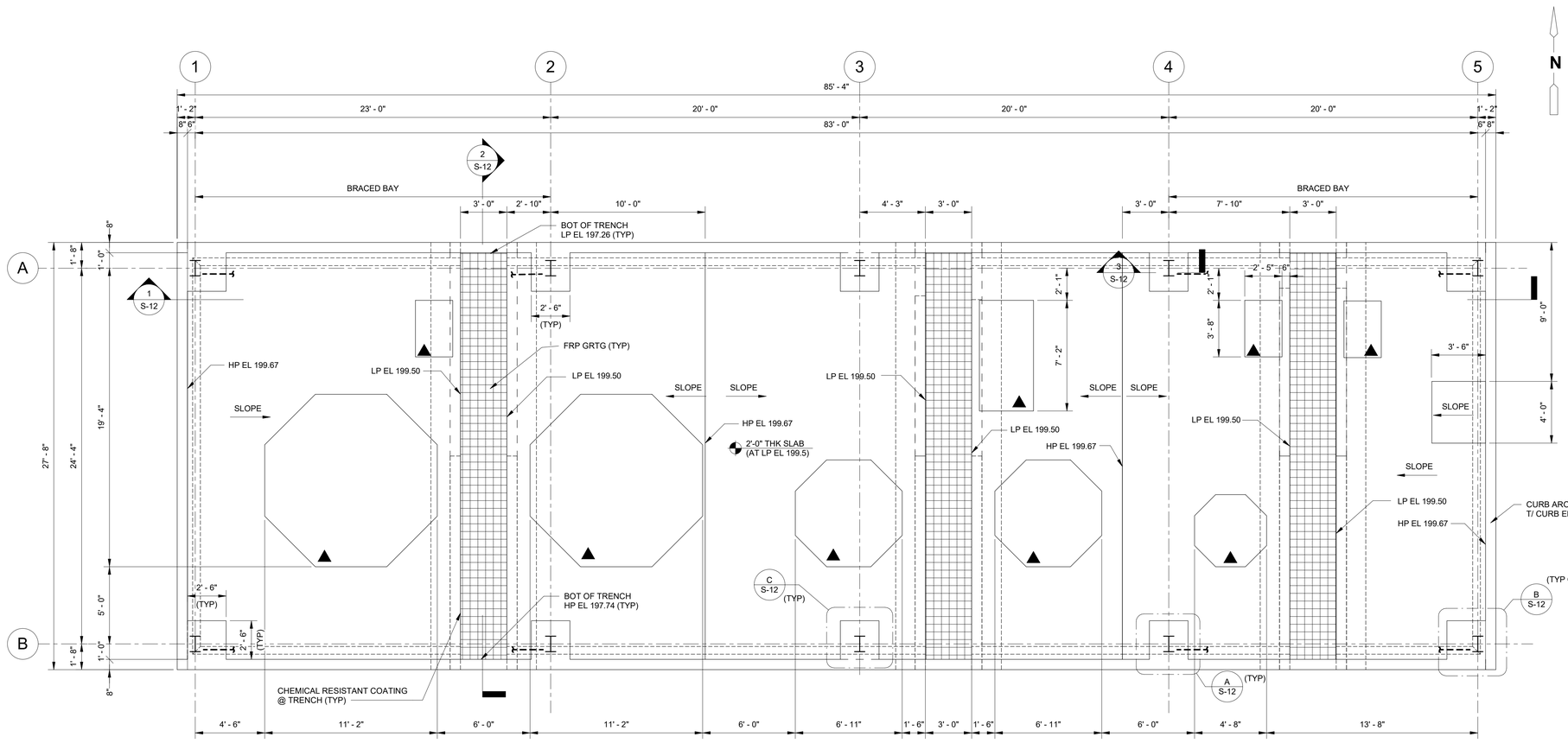
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HIGH SERVICE PUMP STATION
PLAN AND SECTION

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: SWZ000HS.RVT
SHEET NO.
S-9

ISSUED FOR BID



NOTES:

1. * INDICATES DIMENSIONS AND/OR INFORMATION TO BE COORDINATED BY THE CONTRACTOR WITH THE MANUFACTURER OF THE APPROVED EQUIPMENT PRIOR TO FABRICATION AND CONSTRUCTION.
2. PRE ENGINEERED STRUCTURAL STEEL FOR CANOPY SHALL BE GALVANIZED UNO.
3. STRUCTURE SHALL NOT BE FABRICATED OR CONSTRUCTED UNTIL THE SUBMITTAL OF THE PRE-ENGINEERED BUILDING ANCHOR BOLT LOCATIONS AND FOUNDATION REACTIONS HAVE BEEN REVIEWED AND ADJUSTMENTS TO THE STRUCTURE HAVE BEEN COMPLETED IF REQUIRED, BY THE ENGINEER.
4. THE STEEL CANOPY COMPONENTS SHALL BE DESIGNED BY A DELEGATE ENGINEER. SEE SPECIFICATION 133419.
5. PRIOR TO SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL, COORDINATE THE FRP TANK SIZE AND STEEL CANOPY VERTICAL AND HORIZONTAL CLEARANCES WITH THE RESPECTIVE MANUFACTURERS TO FACILITATE INSTALLATION AND REMOVAL OF THE TANKS.

NOTE:

▲ INDICATES HOUSEKEEPING OR EQUIPMENT PAD. SEE DETAILS A/SD-2 AND B/SD-2. COORDINATE SIZE WITH SUPPLIED EQUIPMENT.

FOUNDATION PLAN

1/4" = 1'-0"

DESIGN LOAD DATA - CHEMICAL CANOPY

SUPERIMPOSED DEAD LOAD:	10 PSF

ALL LOADS FROM EQUIPMENT, PIPING AND PIPE SUPPORTS, CONDUIT AND MISCELLANEOUS ITEMS LOCATED ON THE CANOPY OR SUSPENDED FROM THE ROOF ARE TO BE VERIFIED WITH APPROVED LAYOUTS AND SUBMITTALS BY THE CONTRACTOR AND PROVIDED TO THE CANOPY MANUFACTURER. THE REQUIRED LOADS SHALL BE SUBMITTED WITH THE CANOPY CALCULATIONS.

ROOF LIVE LOAD:	20 PSF
WIND DESIGN DATA:	
ENCLOSURE CLASSIFICATION:	OPEN
INTERNAL PRESSURE COEFFICIENT:	NOT APPLICABLE

REFER TO SHEET S-1 FOR DESIGN LOAD DATA THAT IS THE SAME FOR ALL STRUCTURES.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: N. SHEKAR
DRAWN BY: B. BENNETT
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CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

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4651 Salsbury Road, Suite 420
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

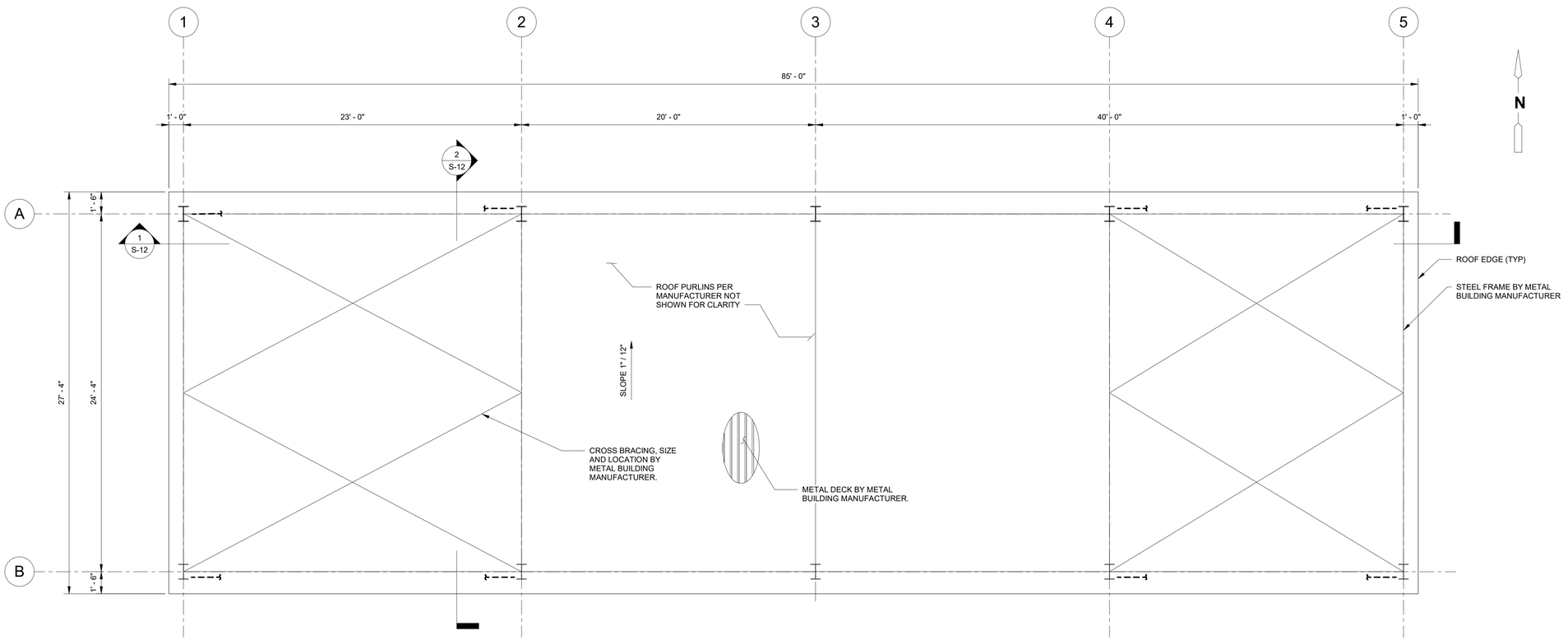
CHEMICAL STORAGE AREA
FOUNDATION PLAN

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

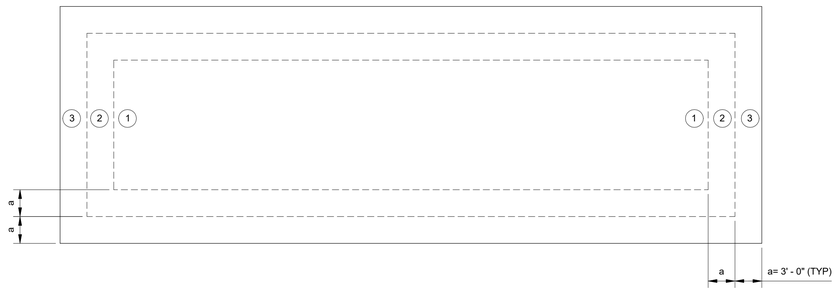
PROJECT NO. 20790-289282
FILE NAME: SWZ001CH.rvt

SHEET NO.
S-10

ISSUED FOR BID



ROOF PLAN
1/4" = 1'-0"



C&C WIND PRESSURE DIAGRAM
NTS

WIND PRESSURE (PSF) FOR COMPONENT AND CLADDING (Vult)												
EFFECTIVE WIND AREA (SQ. FT.)	PRESSURE (+) /SUCTION (-) ROOF (PSF)											
	1 (Clear)		1 (Obst.)		2 (Clear)		2 (Obst.)		3 (Clear)		3 (Obst.)	
< 10.00	38.5	-34.2	18.3	-40.2	57.7	-51.7	27.9	-61.1	77.0	-102.0	36.5	-120.0
10 TO 20	38.5	-34.2	18.3	-40.2	57.7	-51.7	27.9	-61.1	57.7	-51.7	27.9	-61.1
20 TO 50	38.5	-34.2	18.3	-40.2	57.7	-51.7	27.9	-61.1	57.7	-51.7	27.9	-61.1
50 TO 100	38.5	-34.2	18.3	-40.2	38.5	-34.2	18.3	-40.2	38.5	-34.2	18.3	-40.2
>= 100	38.5	-34.2	18.3	-40.2	38.5	-34.2	18.3	-40.2	38.5	-34.2	18.3	-40.2

TABLE NOTES:

1. FOR ASD PRESSURES, APPLY A FACTOR OF 0.6 TO THE LISTED PRESSURES CORRESPONDING TO Vult
2. Obst. - OBSTRUCTURED WIND FLOW.

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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
ROOF PLAN

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

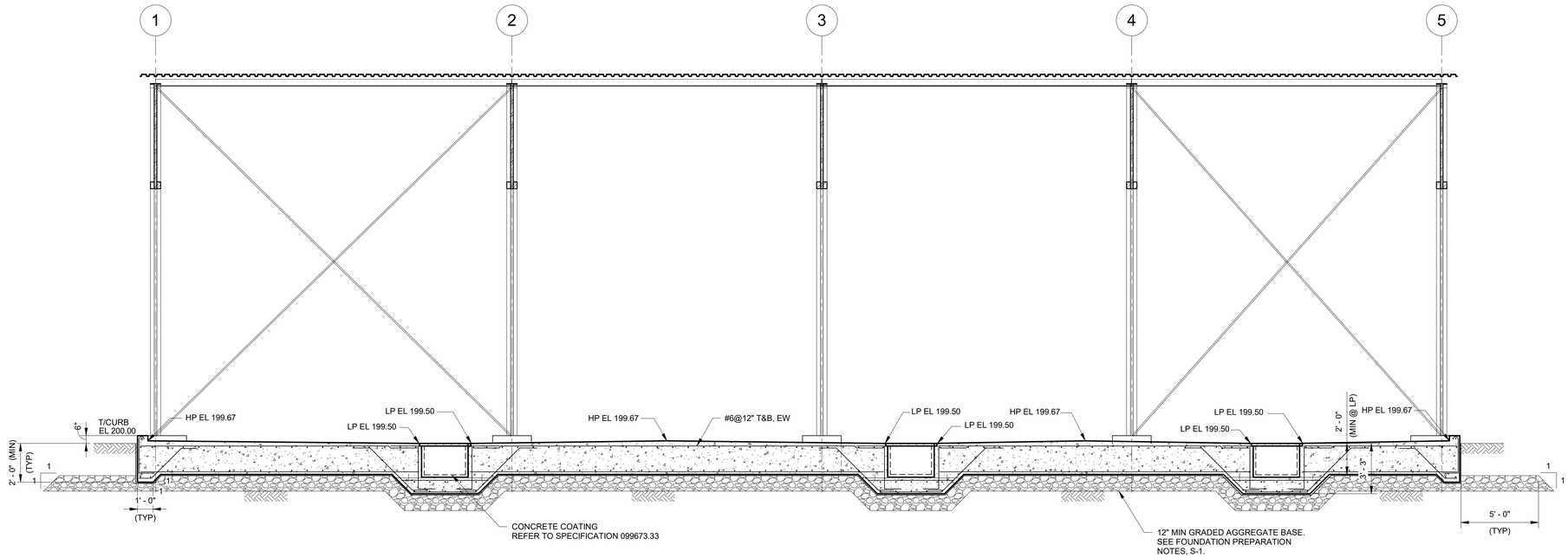
PROJECT NO. 20790-289282
FILE NAME: SWZ001CH.rvt

SHEET NO.
S-11

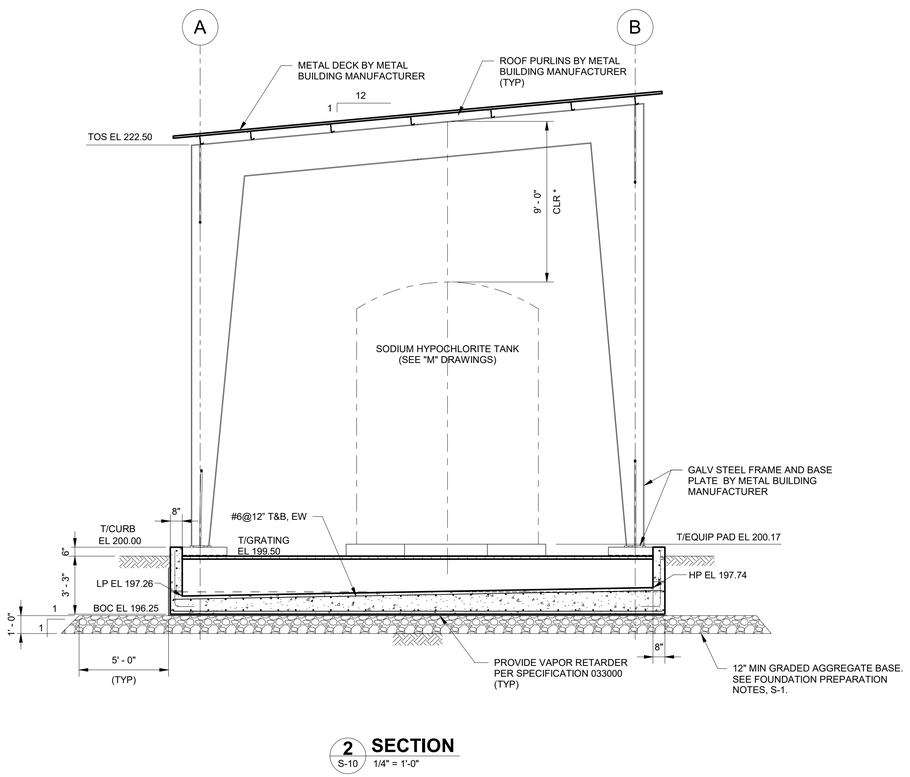
ISSUED FOR BID

NOTES:

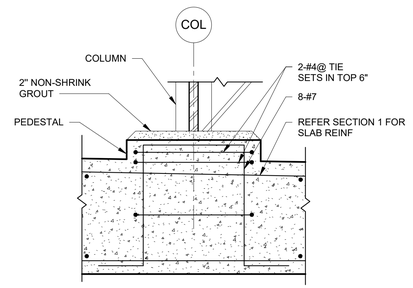
1. * COORDINATE CANOPY HEIGHT WITH SELECTED STORAGE TANKS.



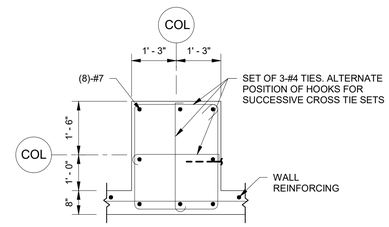
1 SECTION S-10 — 1/4" = 1'-0"



2 SECTION S-10 — 1/4" = 1'-0"

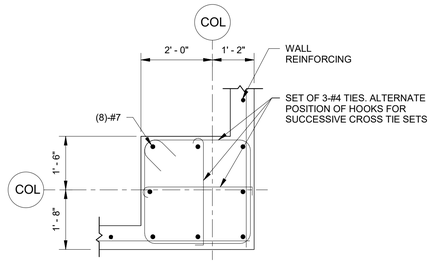


3 SECTION S-10 — 3/4" = 1'-0"



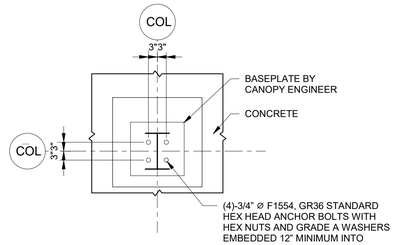
PIERS

A DETAIL — 1/2" = 1'-0"



CORNER PIERS

B DETAIL — 1/2" = 1'-0"



COLUMN ANCHOR BOLTS

C DETAIL — 1/2" = 1'-0"

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: N. SHEKAR
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
SECTIONS AND DETAILS

PROJECT NO. 20790-289282
FILE NAME: SWZ001CH.rvt

SHEET NO.
S-12

ISSUED FOR BID

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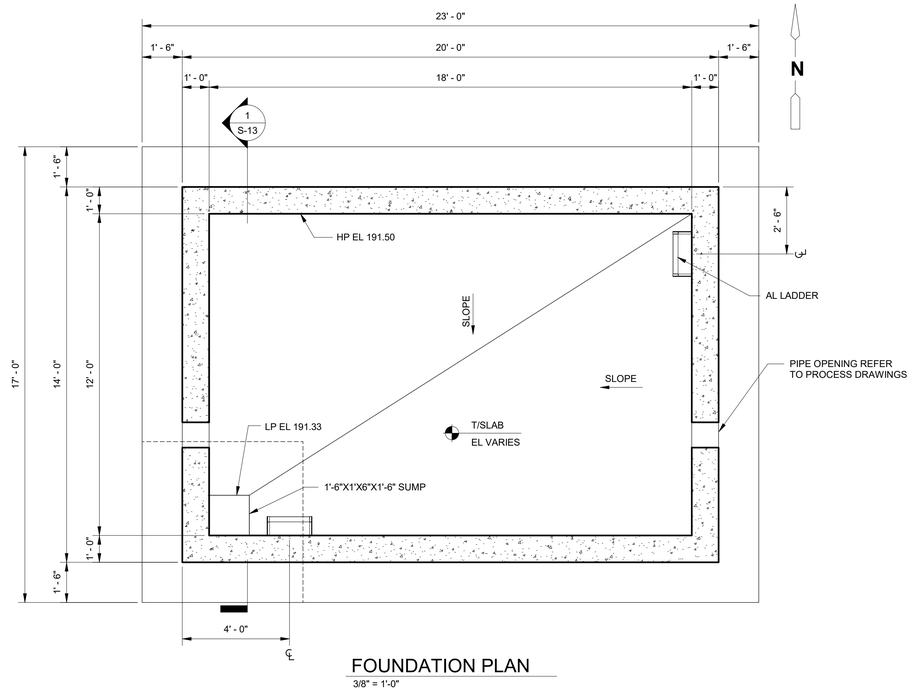
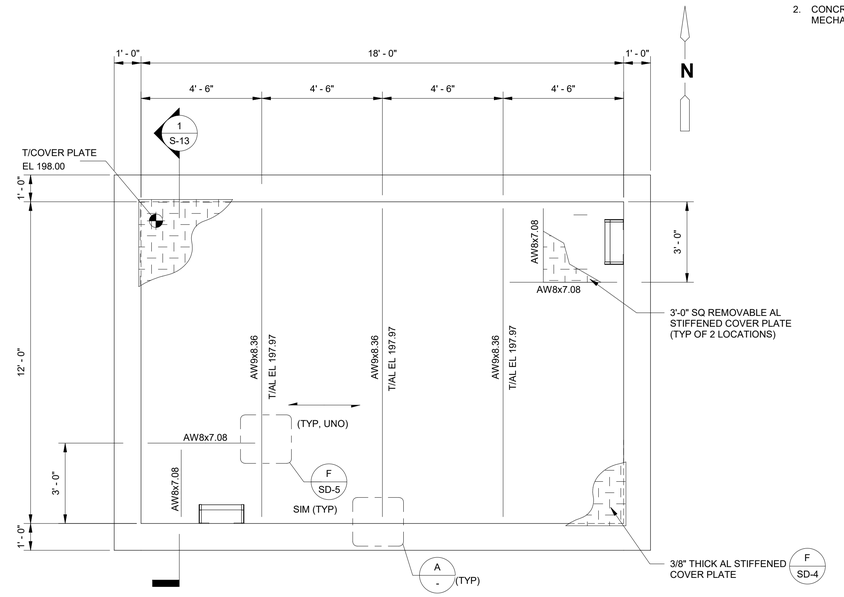


FOUNDATION PLAN

3/8" = 1'-0"

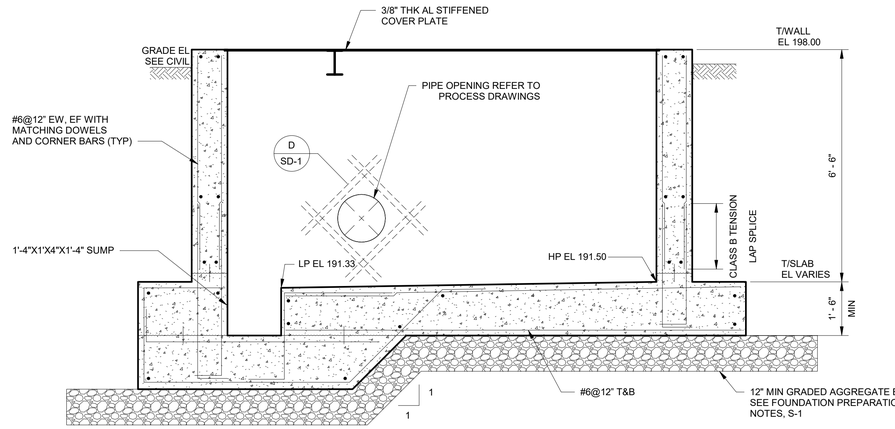


TOP PLAN

3/8" = 1'-0"

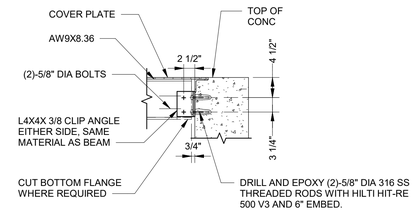
NOTES:

1. AW: INDICATES ALUMINUM ASSOCIATION STANDARD W-SHAPES (FORMERLY I SHAPES).
2. CONCRETE PIPE SUPPORTS NOT SHOWN. REFER TO MECHANICAL DRAWINGS.



1 SECTION

1/2" = 1'-0"



3 DETAIL

3/4" = 1'-0"

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: Y. MOHAMMED
DRAWN BY: M. TRAPP
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL INJECTION VAULT
PLANS AND SECTION

PROJECT NO. 20790-289282
FILE NAME: SWZ000CV.RVT

SHEET NO.
S-13

ISSUED FOR BID

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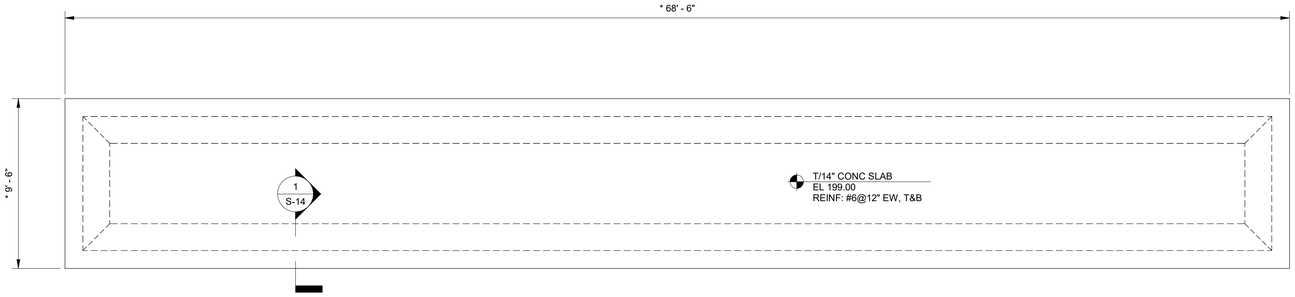
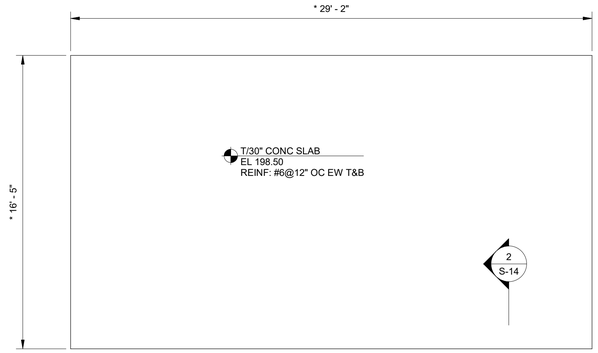


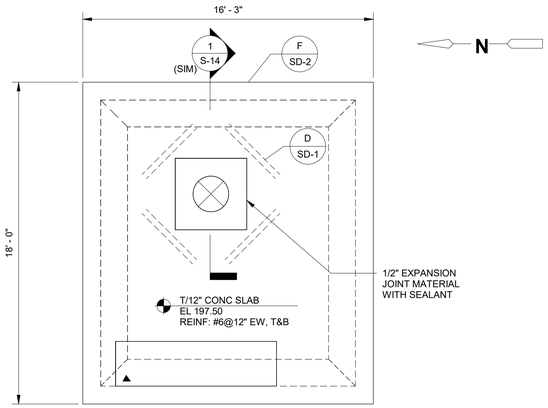
CARBON DIOXIDE STORAGE SLAB
1/4" = 1'-0"

NOTE:

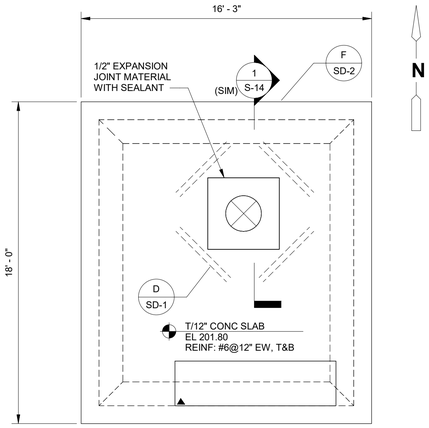
* INDICATED DIMENSIONS AND/OR INFORMATION IS PRELIMINARY AND IS TO BE COORDINATED BY THE CONTRACTOR WITH THE MANUFACTURER OF THE APPROVED EQUIPMENT PRIOR TO FABRICATION AND CONSTRUCTION.



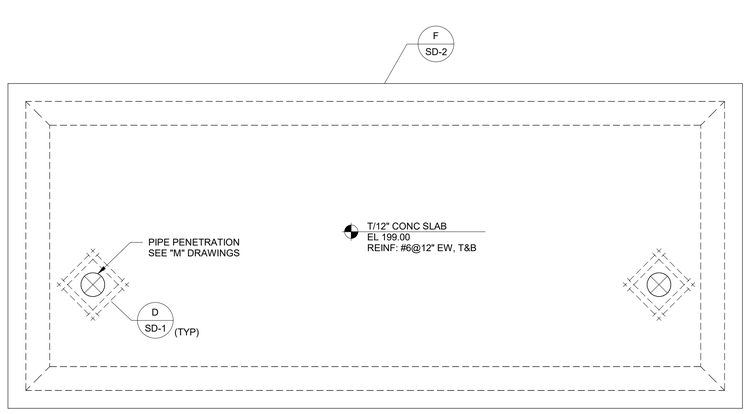
GENERATOR PAD
1/4" = 1'-0"



WELL NO. 1 PAD
1/4" = 1'-0"

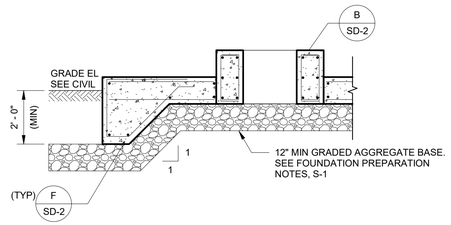


WELL NO. 2 PAD
1/4" = 1'-0"

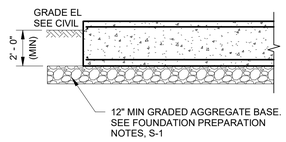


NOTE:
CONCRETE PIPE SUPPORTS NOT SHOWN.
REFER TO MECHANICAL DRAWINGS.

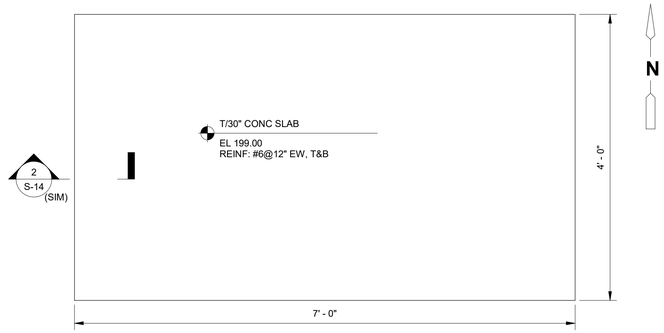
FLOW METER PAD
1/4" = 1'-0"



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



2 SECTION
1/4" = 1'-0"



PRESSURIZED SOLUTION FEED SYSTEM
1" = 1'-0"

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

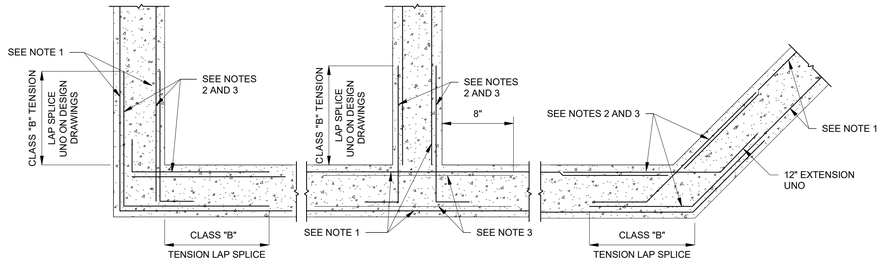
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

MISCELLANEOUS SLAB
PLANS, SECTIONS AND DETAILS

PROJECT NO. 20790-289282
FILE NAME: SWZ000CP.RVT

SHEET NO.
S-14

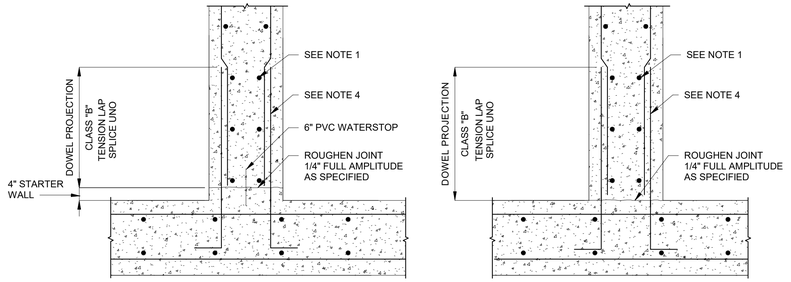
ISSUED FOR BID



CORNER INTERSECTION SKEWED CORNER

WALL CORNER AND INTERSECTION REINFORCEMENT

A DETAIL NTS



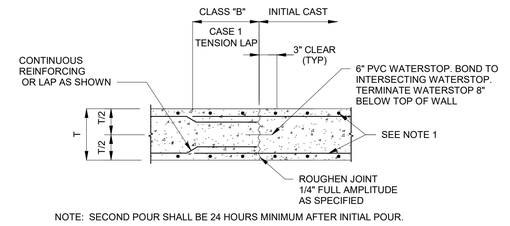
WITH WATERSTOP WITHOUT WATERSTOP

NOTES:

1. STARTER WALL MAY BE ELIMINATED AT JOINTS WITHOUT WATERSTOP AT CONTRACTOR'S OPTION.
2. PROVIDE ADDITIONAL REINFORCEMENT, EACH FACE, IN BOTTOM PORTION OF WALL, WHERE NOTED ON THE DRAWINGS. REINFORCING SHALL BE THE SAME SIZE AS AND LOCATED HALFWAY BETWEEN TYPICAL HORIZONTAL REINFORCEMENT.

WALL BASE CONSTRUCTION JOINT

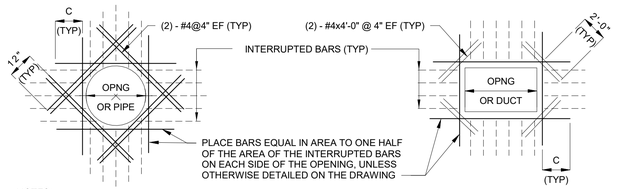
B DETAIL NTS



NOTE: SECOND POUR SHALL BE 24 HOURS MINIMUM AFTER INITIAL POUR.

CONSTRUCTION JOINT

C DETAIL NTS

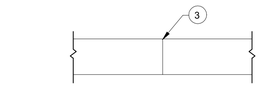


NOTES:

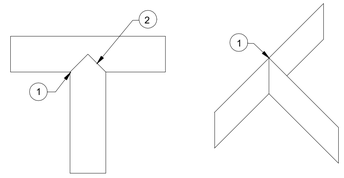
1. DETAIL IS TYPICAL FOR ALL OPENINGS 12" AND GREATER IN CONCRETE WALLS AND SLABS UNLESS OTHERWISE NOTED. SPREAD REINFORCING AT SMALLER OPENINGS.
2. BARS ARE NOT REQUIRED AT AN OPENING EDGE PARALLEL TO AND WITHIN 6 INCHES OF A WALL OR BEAM.
3. C = CLASS "B" TENSION LAP.
4. REINFORCING STEEL IS TO BE CARRIED ACROSS ALL CONSTRUCTION JOINTS.
5. WHERE OPENING IS WITHIN 4'-0" OF BASE SLAB, OR WHERE DOWEL BARS ARE INTERRUPTED, PROVIDE MATCHING DOWELS FOR ADDITIONAL BARS.

REINFORCING AT OPENINGS

D DETAIL NTS



FIELD SPLICE



FLAT TEE VERTICAL TEE

NOTES:

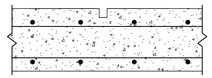
1. FACTORY FABRICATED INTERSECTION PIECES.
2. USE THERMOSTATICALLY CONTROLLED SPLICING IRON TO WELD INTERSECTION PIECE TO FIELD PIECE SPLICING IRON SHALL BE DESIGNED SPECIFICALLY FOR THE WATERSTOP BEING SPLICED.
3. USE INDIRECT SOURCE OF HEAT ONLY. USE OF DIRECT FLAME IS SPECIFICALLY PROHIBITED.
4. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALL SPLICING AND WELDING REQUIREMENTS.

PVC WATERSTOP SPLICE AND JOINTS

E DETAIL NTS

NOTES:

1. SAWCUT WIDTH 1/8" MIN - 1/4" MAX.
2. SAWCUT DEPTH 1" MIN - 1-1/2" MAX.
3. FILL JOINT TO FULL DEPTH WITH SELF-LEVELING SEALANT. USE BACKER ROD OR BOND BREAKER TAPE PER MANUFACTURER.



CONTROL JOINT

F DETAIL NTS

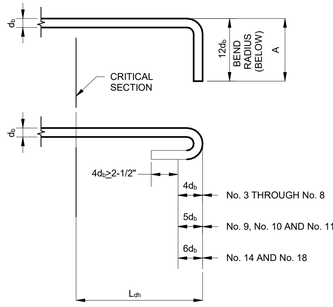
BAR SIZE	LAP LENGTH
#5	3'-0"
#6	3'-8"
#7	4'-6"
#8	6'-0"
#9	7'-6"

CORNER REINFORCING INTERSECTION REINFORCING

BEAM/GRADE BEAM REINFORCING

H DETAIL NTS

2" & 3" COVER 6" OR GREATER SPACING					F'c=4,500 PSI Fy=60,000 PSI	
BAR SIZE	ALL (INCHES)					
	CLASS B TENSION LAP SPLICE		STRAIGHT DEVELOPMENT		STANDARD HOOK DEVELOPMENT	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	ldh	A
3	14	12	12	12	7	6
4	19	14	14	12	9	8
5	23	18	18	14	12	10
6	28	21	21	17	14	12
7	40	31	31	24	16	14
8	46	35	35	27	18	16
9	56	44	44	34	21	20
10	68	52	52	40	23	22
11	80	62	62	48	26	24



1-1/2" COVER 6" OR GREATER SPACING					F'c=4,500 PSI Fy=60,000 PSI	
BAR SIZE	ALL (INCHES)					
	CLASS B TENSION LAP SPLICE		STRAIGHT DEVELOPMENT		STANDARD HOOK DEVELOPMENT	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	ldh	A
3	14	12	12	12	7	6
4	19	14	14	12	9	8
5	23	18	18	14	12	10
6	28	21	21	17	14	12
7	45	35	35	27	16	14
8	57	44	44	34	18	16
9	70	54	54	42	21	20
10	84	65	65	50	23	22
11	98	76	76	58	26	24

NOTES:

1. TABLE IS VALID FOR DESIGN BASED ON ACI 318-14 AND 350-06.
2. A TOP BAR IS A HORIZONTAL BAR WHERE MORE THAN 12" OF FRESH CONCRETE IS CAST DIRECTLY BELOW THE BAR. WHERE HORIZONTAL WALL REINFORCEMENT IS UNIFORMLY SPACED IN A VERTICAL PLANE AT 12" MAXIMUM SPACING, LENGTHS MAY BE AS FOR "OTHER BARS."
3. TABLE IS BASED ON f'c = 4500 psi. LAP SPLICE AND DEVELOPMENT LENGTHS SHALL BE ADJUSTED FOR OTHER CONCRETE COMPRESSIVE STRENGTHS AS FOLLOWS:

f'c	MULTIPLIER
3000 PSI	1.23
3500 PSI	1.14
4000 PSI	1.06

4. FOR COVER AND SPACING GEOMETERY NOT SHOWN ALL HOOKS, SPLICES AND DEVELOPMENT LENGTHS SHALL BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
5. LAPPED SPLICES SHALL NOT BE MADE AT POINTS OF MAXIMUM STRESS UNLESS NOTED OTHERWISE. INDICATED ON THE DRAWING OR DETERMINED BY ENGINEER.
6. UNLESS NOTED OTHERWISE ON DRAWINGS, THE BARS AT A LAP SPLICE SHALL BE IN CONTACT WITH EACH OTHER.
7. LENGTHS FOR BEAMS AND COLUMNS SHALL BE AS SHOWN ON THE DRAWINGS.

LAP SPLICE, DEVELOPMENT LENGTHS AND STANDARD HOOKS (FOR UNCOATED BARS)

LAP SPLICE

G DETAIL NTS

STANDARD DETAIL NOTES:

1. BASIC SLAB/WALL/BEAM REINFORCEMENT AS SHOWN ON DESIGN DRAWINGS.
2. SIZE AND SPACING OF BAR TO MATCH WALL/BEAM REINFORCEMENT AS SHOWN ON DESIGN DRAWINGS.
3. FOR ADDITIONAL BARS AT CORNERS AND INTERSECTIONS, SEE DESIGN DRAWINGS.
4. FOR DOWEL SIZE AND SPACING, SEE DESIGN DRAWINGS.
5. FOR WALLS, TERMINATE WATERSTOP AND KEYWAY 8" BELOW TOP OF WALL.
6. FOR SLABS-ON-GRADE, OMIT SEALANT ON BOTTOM OF SLAB AND EXTEND PRE-MOLDED JOINT MATERIAL TO BOTTOM.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: M. TRAPP
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
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COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

STANDARD CONCRETE DETAILS I

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: SD01STDT.RVT

SHEET NO.
SD-1

ISSUED FOR BID

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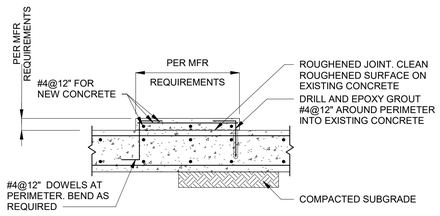
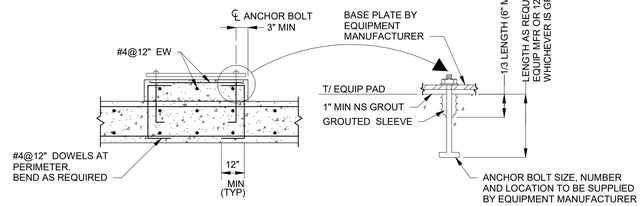


HOUSEKEEPING PAD FOR NEW OR EXISTING SLAB

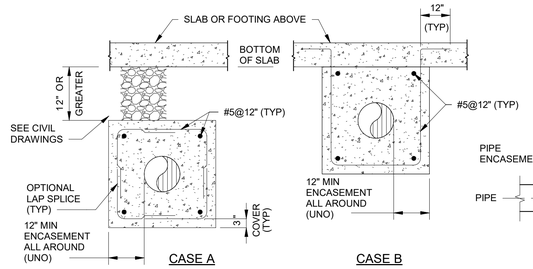
A DETAIL
NTS



NOTE: DIMENSIONS OF PAD AS REQUIRED TO SUIT EQUIPMENT (4" MIN HEIGHT UNLESS PAD IS CAST INTEGRALLY WITH SLAB)

EQUIPMENT PAD

B DETAIL
NTS



END OF PIPE ENCASEMENT
UNDER STRUCTURES

CONCRETE PIPE ENCASEMENT

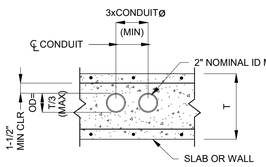
C DETAIL
NTS

PIPE ENCASEMENT NOTES:

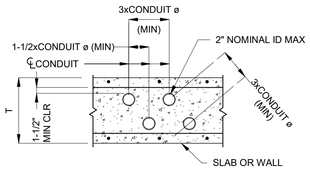
1. MINIMUM ENCASEMENT:

   PIPES LESS THAN 12" ø - 8"
   PIPES 12" ø AND GREATER - 12"

2. ALL PIPE SHALL BE PRESSURE TESTED BEFORE CONCRETE PLACEMENT.
3. ALL BELOW GRADE PIPES SHALL BE SUPPORTED ON CONCRETE BLOCKS PRIOR TO CASTING OF CONCRETE BEDDING. SIZE AND SPACING OF CONCRETE BLOCK SUPPORTS SHALL BE PER PIPE MANUFACTURER.
4. FOR ALL PIPES 12"ø AND LARGER, ENCASEMENT SHALL BE CAST IN TWO POURS. INITIAL CAST SHALL BE CURED FOR 12 HOURS BEFORE CASTING THE SECOND POUR.
5. THE DEPTH OF THE INITIAL POUR SHALL BE SELECTED TO PREVENT FLOTATION OF THE PIPE. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT FLOTATION OF THE PIPE DURING CONCRETING.
6. ENCASE ALL PIPES BELOW SLABS AND FOOTINGS. EXTEND ENCASEMENT AS SHOWN IN DETAIL.MINIMUM 5'-0" BEYOND EDGE OF SLAB OR FOOTING AND EXTEND TO FIRST PIPE JOINT.
7. MAINTAIN MINIMUM COVER FOR LAPS FOR PIPES SMALLER THAN 6"ø.
8. FOR CASE "A", PROVIDE A PARTIAL CONTRACTION JOINT AT EACH PIPE JOINT. MAXIMUM SPACING BETWEEN PARTIAL CONTRACTION JOINTS 24'-0".
9. FOR CASE "B", PROVIDE A JOINT IN THE PIPE AT EACH JOINT IN STRUCTURE. PROVIDE CONSTRUCTION JOINTS IN ENCASEMENT AT LOCATIONS OF CONSTRUCTION JOINTS IN STRUCTURE. PROVIDE PARTIAL CONTRACTION JOINTS IN ENCASEMENT AT LOCATIONS OF CONTROL JOINTS AND EXPANSION JOINTS IN STRUCTURE.
10. PIPE ENCASEMENTS FOR PILE/PIER SUPPORTED STRUCTURES SHALL BE TIED TO PILE CAP SLAB PER CASE B.



SINGLE ROW



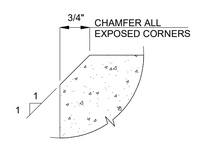
DOUBLE ROW

CONDUIT NOTES:

1. NO CONDUIT OR PIPING SHALL BE EMBEDDED IN STRUCTURAL BEAMS, COLUMNS, WALLS OR SLABS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWING.
2. CONDUIT OR PIPING SHALL BE PLACED 6" BELOW SLAB.
3. WHERE CONDUIT OR PIPING MUST PASS THROUGH A SLAB OR WALL, MINIMUM SIZE AND SPACING REQUIREMENT PER ACI 318-SECTION 6.3 AND THIS DETAIL.
4. ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
5. WHEN CONSTRUCTABILITY ISSUES ARISE, CONTRACTOR SHALL INFORM THE ENGINEER WITH RFI, AND THE ISSUE WILL BE REVIEWED ON A CASE BY CASE BASIS.
6. CONTRACTOR SHALL SUBMIT CONDUIT ROUTING DRAWINGS INDICATING SIZE, SPACING, LOCATION AND RELATIONSHIP TO REINFORCEMENT TO THE ENGINEER FOR REVIEW.

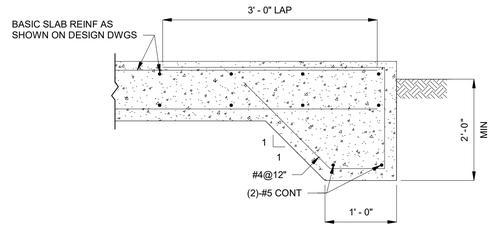
EMBEDDED CONDUIT/PIPING SPACING

D DETAIL
NTS



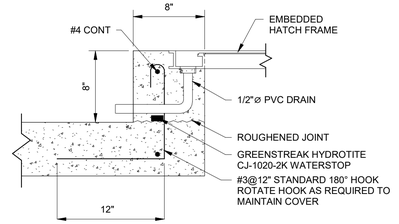
CHAMFER

E DETAIL
NTS



THICKENED EDGE SLAB

F DETAIL
NTS



8" CONCRETE CURB

G DETAIL
NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: M. TRAPP
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

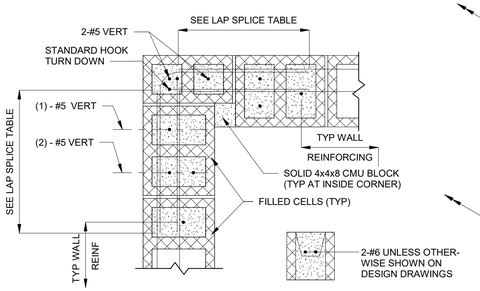
STANDARD CONCRETE DETAILS II

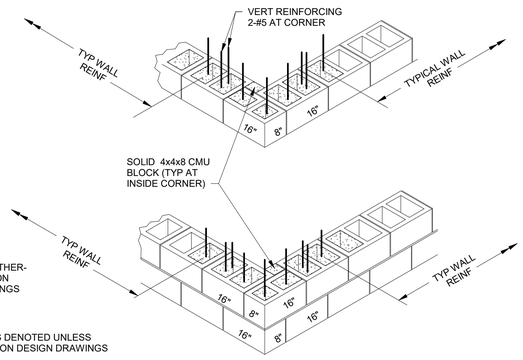
PROJECT NO. 20790-289282
FILE NAME: SD02STDT.RVT

SHEET NO.
SD-2

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

ISSUED FOR BID

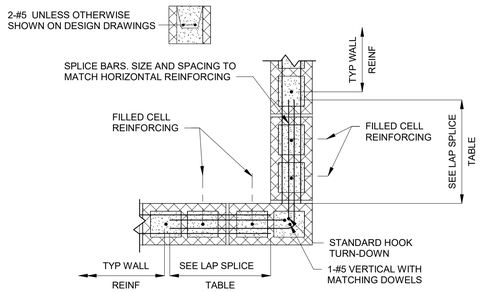




NOTE:
1. REINFORCEMENT AS DENOTED UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS

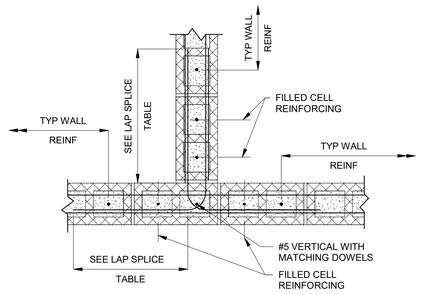
12" CORNER CMU/BOND BEAM/FILLED CELL

A DETAIL NTS



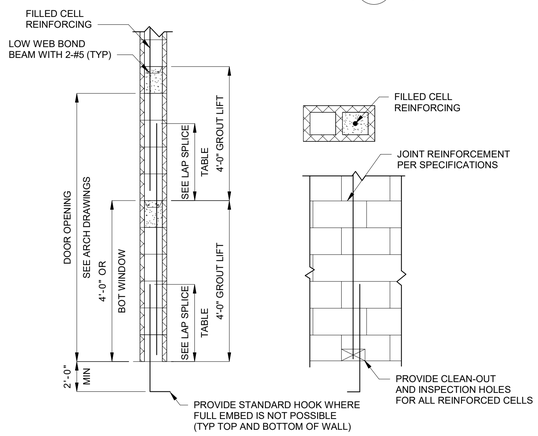
8" CMU WALL CORNER AND END WALL

B DETAIL NTS



8"/12" CMU WALL INTERSECTION

C DETAIL NTS



NOTES:

1. FILLED CELL REINFORCEMENT: 1-#5 @ 3'-4" OC, MAX FOR 12" CMU AND 1-#5 @ 3'-4" FOR 8" CMU WALL UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
2. BOND BEAM REINFORCEMENT: 2-#5 @ 4'-0" OC MAX UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.

FILLED CELL

D DETAIL NTS

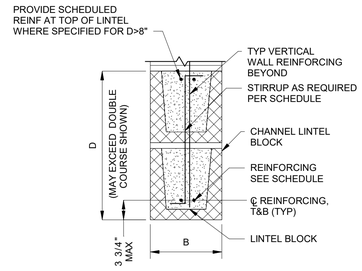
BAR SIZE	CMU LAP SPLICE LENGTH (INCHES)			
	8" BLOCK		12" BLOCK	
	CENTER	EF	CENTER	EF
4	26	26	26	26
5	32	32	32	32
6	38	38	38	38
7	45	45	45	45
8	51	51	51	51

NOTES:

1. SEE DRAWINGS OR CONTACT ENGINEER FOR LAP SPLICE LENGTHS NOT SHOWN.
2. MASONRY LAP SPLICES APPLICABLE FOR IBC 2021 WHEN LIMITING REINFORCEMENT STRESS TO 80% OF ALLOWABLE STRESS, FS(i.e.25,600 PSI).

MASONRY LAP SPLICE SCHEDULE (IBC 2021)

E DETAIL NTS



LINTEL TYPE	WALL TYPE	LOCATION / CLEAR SPAN	B	D	REINF	STIRRUPS
L1	EXTERIOR	TO 3'-4"	12"	8"	2-#5*	-
L2	EXTERIOR	3'-5" TO 8'-0"	12"	16"	2-#5*	-
L3	INTERIOR	TO 3'-4"	8"	8"	2-#5*	-

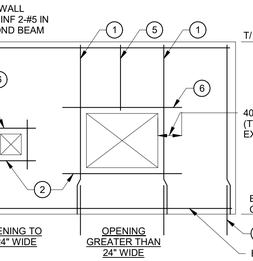
* PROVIDE 180° HOOK AT ENDS OF BARS

CMU LINTEL NOTES:

1. PROVIDE 8" MINIMUM BEARING AT EACH SIDE OF CLEAR SPAN UNLESS OTHERWISE SHOWN ON DESIGN DRAWINGS. PROVIDE 40 BAR ø (24" MIN) BAR EXTENSION PAST EACH SIDE OF OPENING.
2. PROVIDE REINFORCING AS INDICATED AT ALL OPENINGS, BOTH INTERIOR AND EXTERIOR WALLS.
3. REINFORCING TYPICAL UNLESS OTHERWISE NOTED.

CMU LINTEL REINFORCING SCHEDULE

F DETAIL NTS

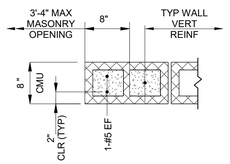


LEGEND

1. SEE TYPICAL CMU WALL OPENING/JAMB DETAILS ON THIS SHEET
2. SILL BARS, 2-#5 IN BOND BEAM
3. 1-#5 EACH SIDE
4. SEE TYPICAL CMU WALL CORNER, END INTERSECTION REINFORCING DETAIL ON THIS SHEET
5. BETWEEN BARS SHOWN, PROVIDE TYPICAL WALL REINFORCING PER FILLED CELL REINFORCING DETAIL ON THIS SHEET
6. SEE TYPICAL CMU LINTEL REINFORCING SCHEDULE ON THIS SHEET
7. IF FULL LENGTH IS NOT AVAILABLE, EXTEND AS FAR AS POSSIBLE, HOOK 90 DEGREE, THEN EXTEND BEYOND BEND REMAINDER OF LENGTH REQUIRED (BUT NOT LESS THAN 12")

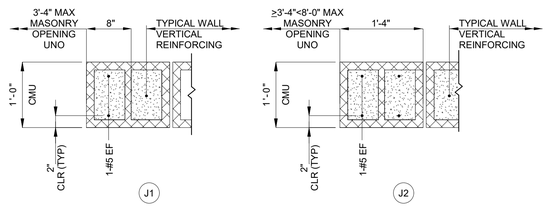
TYPICAL CMU WALL ELEVATION

G DETAIL NTS



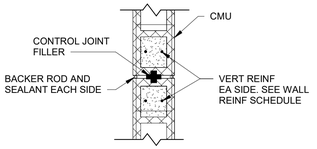
8" CMU WALL OPENING/JAMB DETAILS

H DETAIL NTS



12" CMU WALL OPENING/JAMB DETAIL

J DETAIL NTS



NOTE: EXTEND VERTICAL REINFORCEMENT FULL HEIGHT OF MASONRY. DISCONTINUE HORIZONTAL REINFORCEMENT AT MASONRY CONTROL JOINT, EXCEPT FOR BOND BEAM REINFORCEMENT AT ROOF.

CMU CONTROL JOINT

K DETAIL NTS

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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

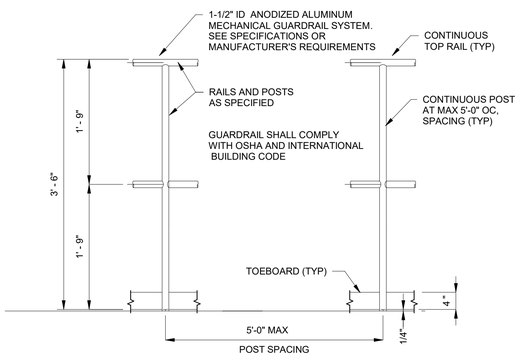
STANDARD MASONRY DETAILS

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

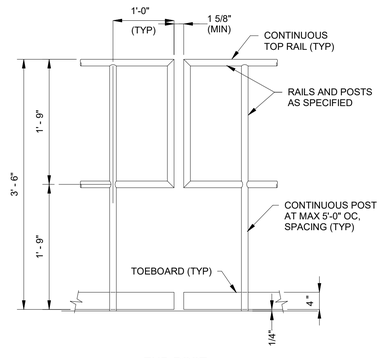
PROJECT NO. 20790-289282
FILE NAME: SD04STDT.RVT

SHEET NO.
SD-3

ISSUED FOR BID



AT HORIZONTAL SURFACE



END POST

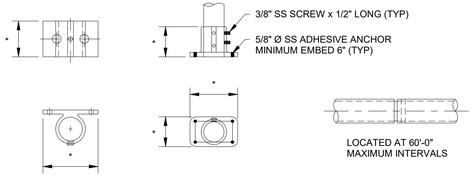
NOTE:
TOEBOARD SHALL BE PROVIDED UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN SPECIFICATIONS. TOEBOARD NOT REQUIRED WHEN CONCRETE CURBS 4" OR HIGHER ARE PROVIDED.

GUARDRAIL

A DETAIL
NTS

GUARDRAIL/HANDRAIL NOTES:

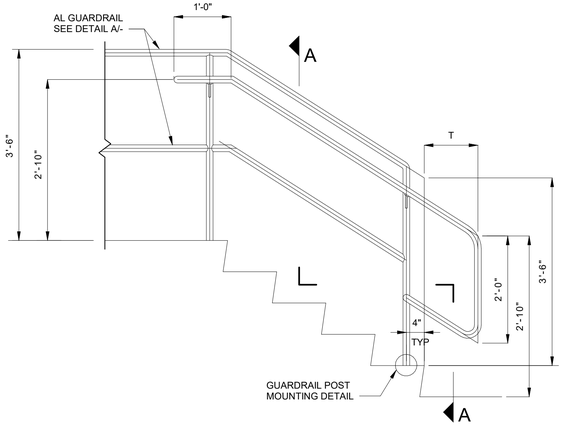
1. ALUMINUM EMBEDDED IN CONCRETE SHALL BE PAINTED WITH ONE SHOP COAT OF HEAVY BITUMASTIC.
2. ALUMINUM SHAPES IN CONTACT WITH CONCRETE SHALL BE SEPARATED BY A 1/32" NEOPRENE GASKET OR ANY CASE WHERE TWO DIFFERENT METALS ARE TO BE IN CONTACT, A NEOPRENE GASKET SHALL BE PROVIDED.
3. HANDRAILS, GUARDRAILS, POSTS, BRACKETS AND MOUNTING SHALL MEET THE INTERNATIONAL BUILDING CODE AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) LOADING REQUIREMENTS.
4. TOP OF ALL GUARDRAILS SHALL BE 42" HIGH ABOVE THE FINISH FLOOR OR WALKWAY. THE CLEAR DISTANCE BETWEEN THE TOP AND INTERMEDIATE RAILS MEASURED AT RIGHT ANGLES TO THE RAILS SHALL NOT EXCEED 21".
5. CONNECT RAILING SYSTEM TO CONCRETE STRUCTURE WITH 1/2" 316 SS ADHESIVE ANCHORS USING HILTI HIT HY-200 ADHESIVE WITH 6" MINIMUM EMBEDMENT.



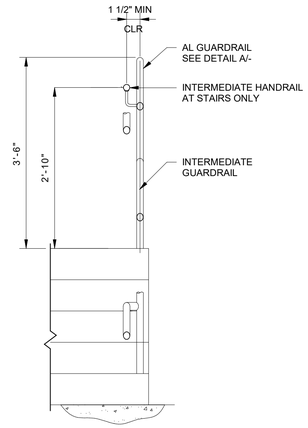
SIDE MOUNT | SURFACE MOUNT | EXPANSION JOINT

* PER RAILING MFR. DESIGN FOR SPECIFIED LOADS

GUARDRAIL CONNECTIONS



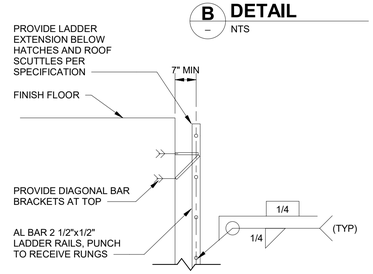
TYPICAL GUARDRAIL/HANDRAIL AT STAIRS



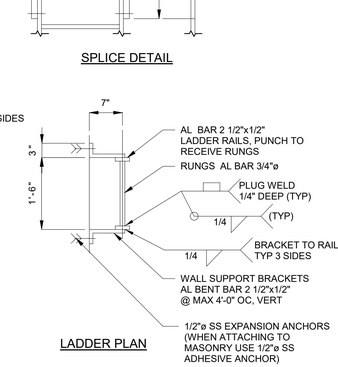
SECTION A-A

T = TYPICAL TREAD LENGTH

B DETAIL
NTS



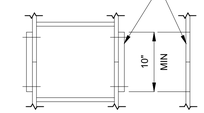
LADDER PLAN



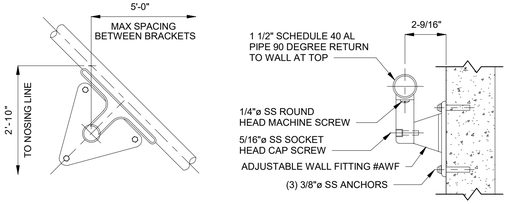
ALUMINUM LADDER

E DETAIL
NTS

SPLICE PLATE, AL BAR 2 1/2"x1/2" WITH (3)-5/8"ø SS BOLTS EACH SIDE OF SPLICE STAGGERED. BOLT HEADS TO BE COUNTERSUNK OR OF THE BUTTON TYPE

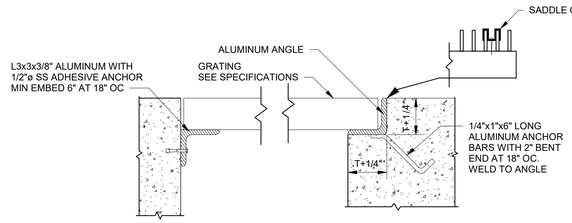


SPLICE DETAIL



WALL HANDRAIL

C DETAIL
NTS



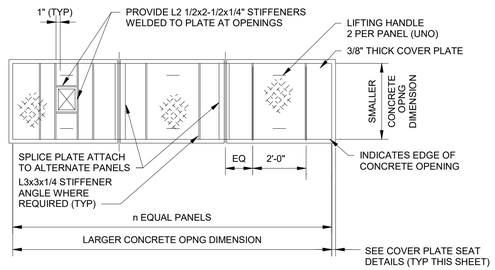
MAXIMUM SPAN	DEPTH	BEARING BAR	
		THICKNESS	SPACING
3'-0"	1-1/4"	3/16"	1-3/16"
4'-0"	1-1/2"	3/16"	1-3/16"
5'-0"	2"	3/16"	1-3/16"
6'-0"	2-1/4"	3/16"	1-3/16"

GRATING AND GRATING SUPPORT

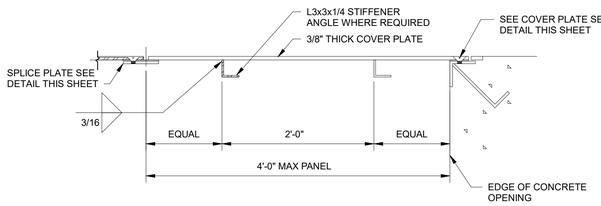
D DETAIL
NTS

COVER PLATE NOTES:

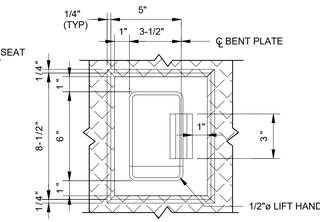
1. COVER PLATES, ANGLE FRAMES AND SUPPORTS SHALL BE ALL ALUMINUM CONSTRUCTION UNLESS OTHERWISE NOTED. COVER PLATES SHALL BE DIAMOND PLATE ALUMINUM ALLOY 6061-T6.
2. FASTENERS, ANCHORS, BOLTS, NUTS AND WASHERS FOR COVER PLATES AND SUPPORTS SHALL BE TYPE 316 STAINLESS STEEL.
3. ALL ANGLE FRAMES FOR COVER PLATES ARE TO BE MITERED AND WELDED AT CORNERS.
4. ALL COVER PLATES SHALL BE SECURELY FASTENED TO SUPPORTS WITH 3/8" STAINLESS STEEL FLAT-HEAD MACHINE SCREWS AT 1'-6" ON CENTER, UNLESS OTHERWISE NOTED.
5. PLACE STIFFENERS FOR COVER PLATES PARALLEL TO THE SHORTER SPAN BETWEEN SUPPORTS OF THE PLATE OR AS INDICATED ON THE PLANS. PLACE LONG LEG ON STIFFENERS PERPENDICULAR TO THE PLATES.
6. UNLESS NOTED OTHERWISE, SPACING BETWEEN STIFFENERS AND BETWEEN EXTERIOR STIFFENERS AND SUPPORT OF THE COVER PLATE SHALL NOT EXCEED 2'-0".
7. ALL COVER PLATES SHALL BE PROVIDED IN SECTIONS WITH LIFTING HANDLE AS DETAILED. A MINIMUM OF 2 STIFFENERS SHALL BE PROVIDED IN EACH PLATE SECTION AS INDICATED BY THE SPAN REQUIREMENTS BELOW. OPENING IN PLATE SHALL BE LOCATED WITHOUT INTERFERING WITH STIFFENERS.
8. PROVIDE GASKET SEALED TIGHT TO SLIDE GATES SUPPORTED ON COVER PLATES AND/OR CONCRETE. GASKET SHALL BE SECURED TO COVER PLATE/CONCRETE WITH 3"x3/8" ALUMINUM CHECKER PLATE AND 3/8" SS FH MACHINE SCREWS (OR POST-INSTALLED DROP IN ANCHOR TO CONCRETE) @12" OC (SIMILAR TO GASKETED SPLICE PLATE DETAIL A/-).



TYPICAL PLAN

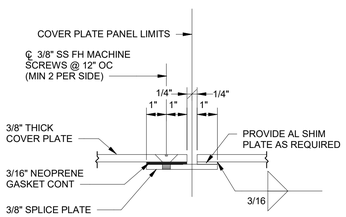


TYPICAL SECTION

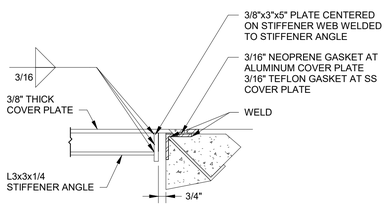


PLAN

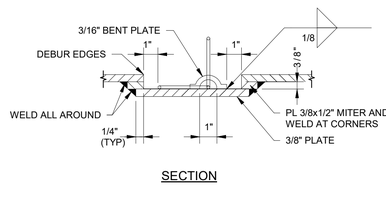
NOTE: LIFT HANDLE MATERIAL TO MATCH PLATE MATERIAL



GASKETED SPLICE PLATE



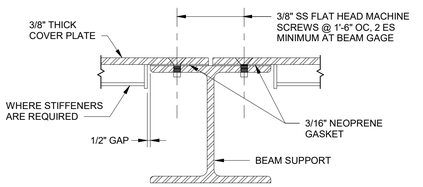
STIFFENER ANGLE END



SECTION

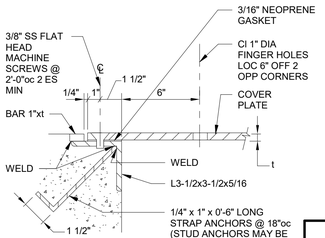
GASKETED COVER LIFT HANDLE

G DETAIL
NTS



COVER PLATE SUPPORT AT INTERIOR BEAMS

H DETAIL
NTS



t = 3/8" UON ON DRAWINGS
PROVIDE FINGER HOLES FOR COVER PLATES < 4 SQ FT IN SIZE UON

COVER PLATE SEAT

J DETAIL
NTS

COVER PLATE

F DETAIL
NTS

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: M. TRAPP
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

STANDARD METAL DETAILS

PROJECT NO. 20790-289282
FILE NAME: SD05STDT.RVT

SHEET NO.
SD-4

ISSUED FOR BID

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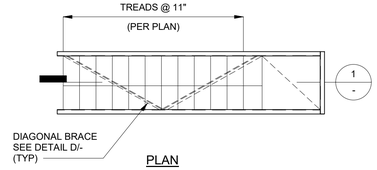
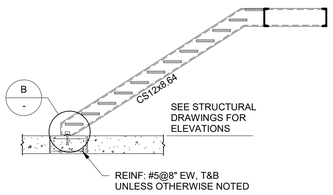


PLAN



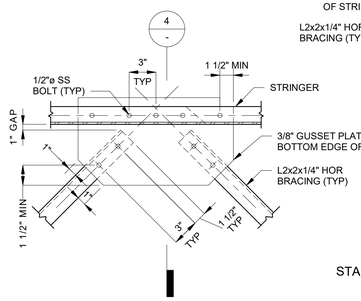
SECTION 1

TYPE "T-1" STAIR

A DETAIL
NTS

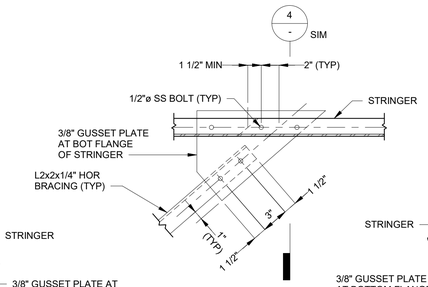
NOTES:

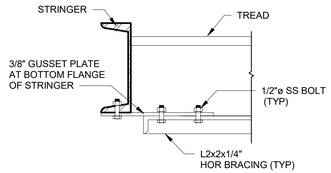
1. ALL CONSTRUCTION IS ALUMINUM PER SPECIFICATIONS, UNLESS NOTED OTHERWISE.
2. RISERS: 7" MAXIMUM, UNLESS NOTED OTHERWISE.
   TREADS: 11" MAXIMUM, PLUS 1" NOSING UNLESS NOTED OTHERWISE.
3. MAXIMUM HEIGHT FOR INDIVIDUAL FLIGHT OF STAIRS = 12'-0".
4. TYPICAL STAIR WIDTH IS 3'-0" UNLESS NOTED OTHERWISE.
5. STAIR STRINGER DIAGONAL BRACING MAY BE OMITTED WHERE STRINGER LENGTH IS LESS THAN 10'-0".
6. TYPICAL PAD WIDTH IS STAIR WIDTH, PLUS 6" EACH SIDE.
7. ALUMINUM EMBEDDED IN CONCRETE MUST BE PAINTED WITH ONE SHOP COAT OF HEAVY BITUMASTIC.
8. ALUMINUM SHAPES IN CONTACT WITH CONCRETE MUST BE SEPARATED BY A 1/32" NEOPRENE GASKET OR ANYCASE WHERE TWO DIFFERENT METALS ARE TO BE IN CONTACT, A NEOPRENE GASKET MUST BE PROVIDED.
9. HANDRAILS, GUARDRAILS, POSTS, BRACKETS AND MOUNTINGS SHALL MEET THE INTERNATIONAL BUILDING CODE (IBC) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) LOADING REQUIREMENTS.
10. TOP OF ALL GUARDRAILS SHOULD BE 42" HIGH ABOVE THE FINISH FLOOR OR WALKWAY. THE CLEAR DISTANCE BETWEEN THE TOP AND INTERMEDIATE RAILS MEASURED AT RIGHT ANGLES TO THE RAILS SHALL NOT EXCEED 21".
11. ALL WALKWAYS SHALL USE GRATING UNLESS NOTED OTHERWISE.
12. FOR ALUMINUM STAIRS, USE C12x8.64 STRINGERS AND 3" SQUARE x 1/4" ALUMINUM POST, UNO.
13. IF STAIR HEIGHT IS LESS THAN 6'-0", STAIR STRINGER SIZE MAY BE REDUCED TO C10x8.64 FOR AL STAIR.
14. ASTM F593 SS BOLTS SHALL BE USED WHERE CONNECTING AL MEMBERS.



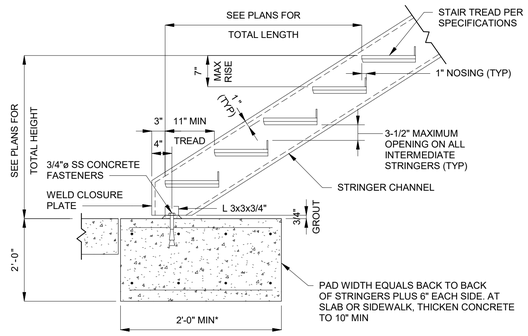
STAIR STRINGER HORIZONTAL BRACING

D DETAIL
NTS



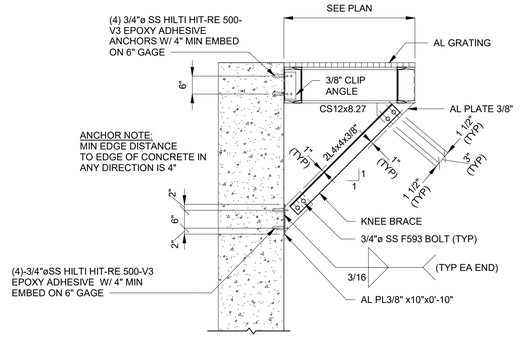


SECTION 4



STAIR STRINGER TO CONCRETE BASE

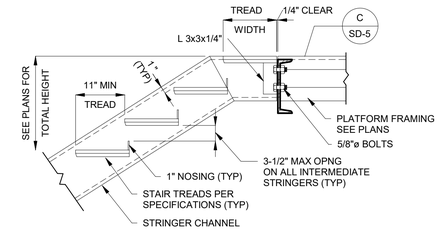
B DETAIL
NTS



NOTES:
1. GUARDRAIL NOT SHOWN FOR CLARITY.
2. MEMBER MATERIALS TO MATCH STAIR CONSTRUCTION, UNLESS OTHERWISE NOTED.

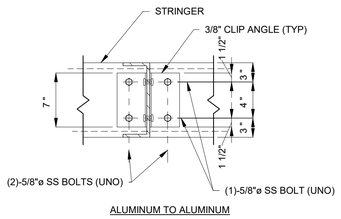
BRACKET AT LANDING PLATFORM

E DETAIL
NTS



STAIR STRINGER TO ALUMINUM PLATFORM TOP

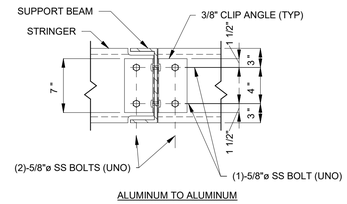
C DETAIL
NTS



ALUMINUM TO ALUMINUM

TYPICAL BEAM TO BEAM CONNECTION

F DETAIL
NTS



ALUMINUM TO ALUMINUM

TYPICAL GIRDER TO BEAM CONNECTION

G DETAIL
NTS

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

STANDARD STAIR DETAILS

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: SD05STDT.RVT

SHEET NO.
SD-5

ISSUED FOR BID

SCHEDULE OF SPECIAL INSPECTIONS AND TESTS

NOTES:

1. THIS DRAWING IS PROVIDED TO OUTLINE THE MINIMUM LEVEL OF SPECIAL INSPECTIONS DURING CONSTRUCTION TO ENSURE CONFORMANCE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. A STATEMENT OF SPECIAL INSPECTIONS WILL BE PREPARED BY A REGISTERED DESIGN PROFESSIONAL AND SUBMITTED WITH THE BUILDING PERMIT APPLICATION.
2. SPECIAL INSPECTIONS WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE (IBC).
3. IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, THE OWNER WILL PROVIDE AN APPROVED AGENCY OR AGENCIES, INDEPENDENT FROM THE CONTRACTOR AND EMPLOYING QUALIFIED PERSONNEL TO PERFORM SPECIAL INSPECTIONS IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTIONS. THE APPROVED AGENCY WILL FURNISH INSPECTION REPORTS TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND BUILDING OFFICIAL.
4. SPECIAL INSPECTIONS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR QUALITY CONTROL OF THE WORK OR FOR CONFORMANCE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. DETECTION, OR FAILURE TO DETECT, DEFECTS IN THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO CORRECT ALL DEFECTS IN THE WORK, WHETHER DETECTED OR NOT, AND OF RESPONSIBILITY FOR CONFORMANCE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
5. REMOVE AND REPLACE, OR REPAIR, DEFECTS IN THE WORK AND WORK NOT IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL BEAR THE COSTS FOR THE INSPECTION AND/OR TESTS OF ANY REPLACED OR REPAIRED PORTIONS OF THE WORK.
6. CONTRACTOR SHALL COOPERATE WITH SPECIAL INSPECTIONS BY PROVIDING SUFFICIENT NOTICE FOR THE SCHEDULING OF PERSONNEL AND BY ALLOWING FREE AND SAFE ACCESS TO THE WORK FOR OBSERVATION, VERIFICATION, SAMPLING AND INSPECTION. PROVIDE AND PERMIT THE USE OF LADDERS, SCAFFOLDING, INCIDENTAL EQUIPMENT AND SAFETY EQUIPMENT AS MAY BE REQUIRED TO CONDUCT SPECIAL INSPECTIONS. ALL SUCH PROVISIONS FOR FREE AND SAFE ACCESS AND EQUIPMENT SHALL BE SAFE, IN GOOD WORKING CONDITION, AND ERECTED, MAINTAINED AND HANDLED BY QUALIFIED PERSONNEL.
7. SPECIAL INSPECTIONS DO NOT APPLY TO CONTRACTOR'S EQUIPMENT, TEMPORARY STRUCTURES USED FOR CONSTRUCTION, MEANS AND METHODS OF CONSTRUCTION, OR SITE SAFETY. CONTRACTOR SHALL REMAIN RESPONSIBLE FOR ADEQUACY AND SAFETY OF EQUIPMENT, TEMPORARY STRUCTURES USED FOR CONSTRUCTION, MEANS AND METHODS OF CONSTRUCTION AND SITE SAFETY.
8. PROVIDE SPECIAL INSPECTIONS AND TEST FOR THE FOLLOWING TYPES OF WORK:
   1. STEEL CONSTRUCTION PER IBC SECTION 1705.2.
   2. CONCRETE CONSTRUCTION PER IBC SECTION 1705.3 AND TABLE 1705.3.
   3. MASONRY CONSTRUCTION PER IBC SECTION 1705.4.
   4. SOILS PER IBC SECTION 1705.6.
   5. FABRICATED ITEMS PER IBC SECTION 1705.10.
   6. SPECIAL INSPECTION FOR WIND RESISTANCE PER IBC SECTION 1705.11.
   7. SPECIAL INSPECTION FOR SEISMIC RESISTANCE PER IBC SECTION 1705.12.
   8. TESTING FOR SEISMIC RESISTANCE PER IBC SECTION 1705.13.
   9. SPRAYED FIRE-RESISTANT MATERIAL CONSTRUCTION PER IBC SECTION 1705.14. (ARCHITECT TO ADDRESS THIS SECTION.)
   10. MASTIC AND INTUMESCENT FIRE-RESISTANT COATING CONSTRUCTION PER IBC SECTION 1705.15. (ARCHITECT TO ADDRESS THIS SECTION.)
   11. EIFS CONSTRUCTION PER IBC SECTION 1705.16. (ARCHITECT TO ADDRESS THIS SECTION.)
   12. FIRE-RESISTANT JOINT SYSTEM CONSTRUCTION PER IBC SECTION 1705.17. (ARCHITECT TO ADDRESS THIS SECTION.)
   13. SMOKE CONTROL TESTING PER IBC SECTION 1705.18. (ARCHITECT TO ADDRESS THIS SECTION.)

TABLE 1 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC, TABLE 1705.6)

TYPE	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	1705.6		X	CONTRACT DOCUMENTS
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.			X	
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		X		
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.			X	

TABLE 2 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC, TABLE 1705.3)

VERIFICATION AND INSPECTION	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	1705.3 1908.4		X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3
REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	1705.3		X	AWS D1.4 ACI 318: 26.6.4
b. INSPECT SINGLE PASS FILLET WELDS MAX 5/16"			X	
c. INSPECT ALL OTHER WELDS		X		
INSPECT ANCHORS CAST IN CONCRETE	1705.3		X	ACI 318: SECTION 17.8.2
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (NOTE a): a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	1705.3	X		ACI 318: 17.8.2.4
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN a			X	ACI 318: 17.8.2
VERIFYING USE OF REQUIRED DESIGN MIX	1705.3 1904.1 1904.2 1908.2 1908.3		X	ACI 318: CH 19, 26.4.3, 26.4.4
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	1705.3 1908.10	X		ASTM C31 ASTM C172 ACI 318: 26.5, 26.12
INSPECT CONCRETE AND SHORTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	1705.3 1908.6 1908.7 1908.8	X		ACI 318: 26.5
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	1705.3 1908.9		X	ACI 318: 26.5.3 - 26.5.5
INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES	1705.3	X		ACI 318: 26.10
b. GROUTING OF BONDED PRESTRESSING TENDONS		X		
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	1705.3		X	ACI 318: 26.9
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	1705.3		X	ACI 318: 26.11.2
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1705.3		X	ACI 318: 26.11.1.2(b)

NOTES:
a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIED REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

TABLE 3 - REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS (IBC, TABLE 1705.2.3)

TYPE	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS				
a. END CONNECTIONS - WELDING OR BOLTED	1705.2.3		X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
b. BRIDGING - HORIZONTAL OR DIAGONAL				
1. STANDARD BRIDGING			X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1			X	

NOTES TO DESIGNER:
1. TABLES 1705.6, 1705.7, AND 1705.8 TO BE FILLED OUT BY THE GEOTECHNICAL ENGINEER.
2. SPECIFICATION SECTIONS FOR ITEMS TO BE DESIGNED BY PERFORMANCE SPECIFICATION MUST REQUIRE THE SUBMITTAL OF A STATEMENT OF SPECIAL INSPECTIONS FOR THE WORK COVERED BY THAT SECTION.

TABLE 4 - LEVEL B REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (ACI 530.1, PER IBC 1705.4)

VERIFICATION AND INSPECTION	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
VERIFY COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS	1705.4		X	TMS 602 ARTICLE 1.5
VERIFICATION OF f'm AND f'aac PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE			X	TMS 602 ARTICLE 1.4B
VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT		X		TMS 602 ARTICLE 1.5 & 1.6
AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING TO ENSURE COMPLIANCE :				
a. PROPORTIONS OF SITE-PREPARED MORTAR			X	TMS 602 ARTICLE 2.1, 2.6A & 2.6C
b. GRADE TYPE AND SIZE OF REINFORCEMENT CONNECTORS AND ANCHOR BOLTS			X	TMS 602 ARTICLE 3.4, 3.6A
c. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY		X		TMS 602 ARTICLE 2.1C.1
d. SAMPLE PANEL CONSTRUCTION			X	TMS 602 ARTICLE 1.6D
DURING CONSTRUCTION VERIFY:				
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS			X	TMS 602 ARTICLE 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAT JOINT CONSTRUCTION			X	TMS 602 ARTICLE 3.3B
c. SIZE AND LOCATION OF STRUCTURAL ELEMENTS			X	TMS 602 ARTICLE 3.3F
d. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION			X	TMS 402 SECTIONS 1.2.1(e), 6.2.1 & 6.3.1
e. WELDING OF REINFORCING BARS (WHEN WELDING IS SPECIFIED OR APPROVED IN WRITING)		X		TMS 402 SECTION 6.1.6.1.2
f. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)			X	TMS 602 ARTICLE 1.8C, 1.8D
g. GROUT PLACEMENT		X		TMS 602 ARTICLE 3.5
h. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS		X		TMS 602 ARTICLE 3.3B.9, 3.3F.1.b
PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE			X	TMS 602 ARTICLE 3.2D, 3.2F
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS			X	TMS402 SECTIONS 6.1, 6.3.1, 6.3.6, 6.3.7 TMS 602 ARTICLES 3.2E & 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT			X	TMS 602 ARTICLE 2.6B
OBSERVE PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS			X	TMS 602 ARTICLE 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4.B.3, 1.4.B.4

TABLE 5 - REQUIRED VERIFICATION AND INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (AISC 360, PER IBC, SECTION 1705.2)

VERIFICATION AND INSPECTION	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:	1705.2.2			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS			X	
INSPECTION OF WELDING:	1705.2.2 1705.3.1			
a. COLD-FORMED STEEL DECK				
1) FLOOR AND ROOF DECK WELDS			X	AWS D1.1
b. REINFORCING STEEL (WHEN WELDING IS SPECIFIED OR APPROVED IN WRITING)			X	AWS D1.4 AND ACI 318: SECTION 3.5.2
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706			X	
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT		X		
3) SHEAR REINFORCEMENT		X		
4) OTHER REINFORCING STEEL			X	
COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER:	1705.2.4			APPROVED TRUSS SUBMITTAL PACKAGE
a. VERIFY TEMPORARY AND PERMANENT RESTRAINT/ BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE			X	

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SPECIAL INSPECTIONS I

PROJECT NO. 20790-289282
FILE NAME: S000SPIN.RVT

SHEET NO.
SD-6

ISSUED FOR BID

SCHEDULE OF SPECIAL INSPECTIONS AND TEST (CONTINUED)

NOTE: SEE SD-6 FOR NOTES.

TABLE 6 - REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE
(IBC, SECTION 1705.12)

SYSTEM OR MATERIAL	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F. VERIFY THAT THE LABEL, ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE	1705.12 1705.12.4 1705.13.3		X	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REPORTS
STRUCTURAL STEEL IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F	1705.12 1705.12.1			QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341
STRUCTURAL WOOD IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F	1705.12 1705.12.2			
a. FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM		X		
b. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS WITHIN THE SEISMIC FORCE-RESISTING SYSTEM			X	SPECIAL INSPECTION NOT REQUIRED WHEN FASTENER SPACING > 4" O.C.
COLD-FORMED STEEL IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F	1705.12 1705.12.3			
a. WELDING OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM			X	
b. SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS WITHIN THE SEISMIC FORCE-RESISTING SYSTEM			X	SPECIAL INSPECTION NOT REQUIRED WHEN SHEATHING IS GYPSUM BOARD; FIBER BOARD; OR WHEN SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONE SIDE ONLY AND FASTENER SPACING IS > 4" O.C.
ARCHITECTURAL COMPONENTS	1705.12 1705.12.5 1705.12.5.1			
DURING ERECTION AND FASTENING OF ARCHITECTURAL COMPONENTS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F				
a. EXTERIOR CLADDING GREATER THAN 30 FEET IN HEIGHT ABOVE GRADE OR WALKING SURFACE AND WEIGHING MORE THAN 5 PSF			X	
b. INTERIOR NON BEARING WALLS GREATER THAN 30 FEET IN HEIGHT ABOVE GRADE OR WALKING SURFACE AND WEIGHING MORE THAN 15 PSF			X	
c. EXTERIOR NON BEARING WALLS GREATER THAN 30 FEET IN HEIGHT ABOVE GRADE OR WALKING SURFACE			X	
d. INTERIOR AND EXTERIOR VENEER GREATER THAN 30 FEET IN HEIGHT ABOVE GRADE OR WALKING SURFACE AND WEIGHING MORE THAN 5 PSF			X	
e. ANCHORAGE OF ACCESS FLOORS			X	
PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS	1705.12 1705.12.6			
a. DURING ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F			X	
b. DURING ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F			X	
c. DURING INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS INTENDED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F			X	
d. DURING THE INSTALLATION AND ANCHORAGE OF HVAC DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F			X	
e. DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F, WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4 INCH (6.4MM) OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT			X	
DURING ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F	1705.12 1705.12.7		X	
DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES THAT ARE PART OF THE SEISMIC ISOLATION SYSTEM IN SEISMIC DESIGN CATEGORY B, C, D, E OR F	1705.12 1705.12.8		X	
DURING INSTALLATION OF COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F	1705.12 1705.12.9		X	

TABLE 7 - REQUIRED STRUCTURAL TESTING FOR SEISMIC RESISTANCE
(IBC, SECTION 1705.13)

SYSTEM OR MATERIAL	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
NONSTRUCTURAL COMPONENTS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F WHERE THE GENERAL DESIGN REQUIREMENTS OF ASCE 7 SECTION 13.2.1, ITEM 2 FOR MANUFACTURER'S CERTIFICATION ARE SATISFIED BY TESTING	1705.13 1705.13.2			ASCE 7 SECTION 13.2.1 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STAND-BY POWER			X	
b. ANCHORAGE OF RECIPROCATING AND ROTARY-TYPE EQUIPMENT			X	
SEISMIC FORCE-RESISTING SYSTEMS STRUCTURAL STEEL a. SEISMIC FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F	1705.13 1705.13.1			QUALITY ASSURANCE REQUIREMENTS OF AISC 341
DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F SUBJECT TO THE SPECIAL CERTIFICATION REQUIREMENTS OF ASCE 7 SECTION 13.2.2	1705.13 1705.13.3			ASCE 7 SECTION 13.2.2 MANUFACTURER'S CERTIFICATE OF COMPLIANCE
a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STAND-BY POWER			X	
b. ANCHORAGE OF RECIPROCATING AND ROTARY-TYPE EQUIPMENT			X	
SEISMIC ISOLATION SYSTEM IN SEISMICALLY ISOLATED STRUCTURES IS SEISMIC DESIGN CATEGORY B, C, D, E OR F	1705.13.4	X		ASCE 7 SECTION 17.8

TABLE 8 - REQUIRED SPECIAL INSPECTIONS FOR WIND RESISTANCE
(IBC, SECTION 1705.11)

SYSTEM OR MATERIAL	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
THE STATEMENT OF SPECIAL INSPECTIONS WILL INCLUDE WIND REQUIREMENTS FOR STRUCTURES CONSTRUCTED IN THE FOLLOWING AREAS:	1705.11			CONTRACT DOCUMENTS
a. IN WIND EXPOSURE CATEGORY B, WHERE THE NOMINAL WIND SPEED V_{asd} IS 120 MILES PER HOUR (MPH) (52.8 m/s) OR GREATER b. IN WIND EXPOSURE CATEGORY C OR D, WHERE THE NOMINAL WIND SPEED V_{asd} IS 110 MPH (49 m/s) OR GREATER			X	
ROOF COVERING, ROOF DECK AND FRAMING CONNECTIONS			X	
EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING			X	
WELDING OPERATIONS OF "COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION" TO MAIN WINDFORCE RESISTING SYSTEM			X	
SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM FROM THE "COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION," INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS			X	

TABLE 9 - REQUIRED VERIFICATION AND INSPECTION OF ALUMINUM CONSTRUCTION

VERIFICATION AND INSPECTION	IBC REFERENCE	INSPECTION FREQUENCY		REFERENCE STANDARD
		CONTINUOUS	PERIODIC	
MATERIAL VERIFICATION OF BOLTS, NUTS AND WASHERS:	1701.2			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			X	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED			X	
MATERIAL VERIFICATION OF ALUMINUM STRUCTURAL MEMBERS:				
a. IDENTIFICATION MARKERS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS			X	
MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			X	APPLICABLE AWS DOCUMENTS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED			X	
INSPECTION OF WELDING:				AWS D1.2
a. STRUCTURAL ALUMINUM				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS		X		
2) MULTIPASS FILLET WELDS		X		
3) SINGLE-PASS FILLET WELDS > 5/16"		X		
4) PLUG AND SLOT WELDS		X		
5) SINGLE-PASS FILLET WELDS ≤ 5/16"			X	
INSPECTION OF ALUMINUM FRAME JOINT DETAILS FOR COMPLIANCE:				
a. DETAILS SUCH AS BRACING AND STIFFENING			X	
b. MEMBER LOCATIONS			X	
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION			X	

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: M. TRAPP
DRAWN BY: B. BENNETT
SHEET CHK'D BY: K. FRANCOFORTE
CROSS CHK'D BY: R. KEEFE
APPROVED BY: J. BOGGS
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SPECIAL INSPECTIONS II

GEORGIA REGISTERED No. 001701 STRUCTURAL ENGINEER JUSTIN S. BOGGS

PROJECT NO. 20790-289282
FILE NAME: S000SPIN.RVT

SHEET NO.
SD-7

ISSUED FOR BID

HVAC SYMBOLS

- (T) THERMOSTAT
- (HT) HIGH TEMPERATURE SWITCH
- (LT) LOW TEMPERATURE SPACE THERMOSTAT
- (SD) SMOKE DETECTOR
- (FS) FLOW SENSOR
- (H) HUMIDISTAT
- (WT) WALL TIMER
- [BG] BREAK GLASS SWITCH
- [WS] WALL SWITCH
- [M] MOTOR OPERATED DAMPER
- [OS] OCCUPANCY SWITCH
- (OS) OCCUPANCY SENSOR
- EXTERIOR ALARM STATION
- INTERIOR ALARM STATION
- CONTROL DAMPER
- FIRE DAMPER
- SMOKE ACTUATED FIRE DAMPER
- FLEXIBLE CONNECTION
- ELBOW WITH TURNING VANES
- EXHAUST GRILLE
- EXHAUST REGISTER

HVAC SYMBOLS

- RETURN GRILLE
- SUPPLY REGISTER
- SUPPLY DUCT
- RETURN / EXHAUST DUCT
- DOOR GRILLE
- TRANSFER GRILLE
- TRANSFER DUCT
- SPLITTER DAMPER
- SHOE-TAP
- DAMPER-EXTRACTOR DUCT CONNECTION
- CEILING DIFFUSER - TYPE VARIES
- ROOF MOUNTED EXHAUST FAN
- WALL MOUNTED EXHAUST FAN
- VAV VARIABLE AIR VOLUME REGULATOR W/ OUTLETS
- ROUND FLEXIBLE INSULATED DUCT
- SHEET METAL DUCT
- ELECTRIC UNIT HEATER
- ELECTRIC DUCT HEATER
- ENERGY RECOVERY UNIT
- VVT BOX WITH TRANSITION

NOTE:

1. SYMBOLS AND ABBREVIATIONS SHOWN ON THE SHEET ARE GENERIC AND MAY NOT HAVE BEEN USED ON THE PROJECT.

HVAC ABBREVIATIONS

A	AMPS
AABC	ASSOCIATED AIR BALANCE COUNCIL
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
APU	AIR PURIFICATION UNIT
AR	ACID RESISTANT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ATC	AUTOMATIC TEMPERATURE CONTROL
BDD	BACKDRAFT DAMPER
BEL	BELOW
BLDG	BUILDING
BS	BIRD SCREEN
BTU	BRITISH THERMAL UNITS
C	CONDENSATE
CD	CONTROL DAMPER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONC	CONCRETE
CONN	CONNECTION
CW	CHILLED WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DB	DRY BULB
DG	DOOR GRILLE
DIA	DIAMETER
DISC	DISCHARGE
DN	DOWN
DPR	DAMPER
DS	DISCONNECT SWITCH
EA	EACH
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATION
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FIN	FINISH
FL	FLOOR
FLA	FULL LOAD AMPS
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
FT2	SQUARE FEET
GA	GAUGE
GALV/GS	GALVANIZED
GFC	GAS FIRED CHILLER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HG	HOT GAS
HP	HORSEPOWER

HVAC ABBREVIATIONS

HR	HOUR
HW	HOT WATER
KW	KILOWATT
LD	LINEAR DIFFUSER
LIQ	LIQUID
LVR	LOUVER
MAU	MAKE-UP AIR UNIT
MBH	1,000 BTU/HR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MOP/MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PAC	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PCD	PERFORATED CEILING DIFFUSER
PCF	POUNDS PER CUBIC FOOT
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	REFRIGERANT
RA	RETURN AIR
RG	RETURN GRILLE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAD	SUPPLY AIR DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SHT	SHEET
SM	SHEET METAL
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
ST	STEAM
STD	STANDARD
SUCT	SUCTION
SW	SWITCH
TDH	TOTAL DISCHARGE HEAD
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
V	VOLTS
VAP	VAPOR
VVT	VARIABLE VOLUME TERMINAL
W/	WITH
WB	WET BULB
WG	WATER GAUGE
WT	WEIGHT
WTR	WATER

HVAC NOTES

1. HVAC EQUIPMENT DIMENSIONS, LOCATIONS, DUCTWORK AND PIPING SYSTEM LAYOUTS ARE BASED ON EQUIPMENT SELECTED BY THE ENGINEER. IF THE CONTRACTOR PROPOSES TO FURNISH EQUIPMENT THAT REQUIRES AN ARRANGEMENT OR SPACE DIFFERING FROM THAT INDICATED ON THE DRAWINGS, OR SPECIFIED, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER, FOR APPROVAL, DETAILED ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, INSTRUMENTATION, HVAC AND ELECTRICAL DRAWINGS AND EQUIPMENT LISTS SHOWING ALL NECESSARY CHANGES AND EMBODYING ALL FEATURES OF THE EQUIPMENT THE CONTRACTOR PROPOSES TO FURNISH. THIS INFORMATION SHALL INCLUDE BUT SHALL NOT BE LIMITED TO PLANS, SECTIONS, DETAILS, AND SCHEMATICS OF ALL APPURTENANCES REQUIRED. SUCH CHANGES, IF APPROVED BY THE ENGINEER, SHALL BE AT NO EXTRA COST TO THE OWNER. THE CONTRACTOR SHALL ASSUME THE COST OF, AND THE RESPONSIBILITY FOR, SATISFACTORILY ACCOMPLISHING ALL THE NECESSARY CHANGES CORRESPONDING TO THE DIMENSIONS AND CHARACTERISTICS OF THE EQUIPMENT SUBMITTED AND APPROVED BY THE ENGINEER. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.
2. SIZES OF EQUIPMENT PADS INDICATED ON THE DRAWINGS ARE APPROXIMATE. EXACT DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FOR THE EQUIPMENT FURNISHED. ALL FLOOR MOUNTED EQUIPMENT SHALL BE SET ON CONCRETE PADS CONFORMING TO DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
3. DIELECTRIC COUPLINGS, FLANGES OR UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF COPPER PIPE TO OTHER TYPES OF METALLIC PIPING.
4. HVAC PIPING AND DUCTWORK DRAWINGS DO NOT SHOW ALL DRAINS, VENTS, OFFSETS AND FITTINGS ETC. REQUIRED FOR THE COMPLETE SYSTEM. SMALL PIPING IS SHOWN APPROXIMATELY TO SCALE BUT NOT EVERY FITTING AND OFFSET IS SHOWN. SOME VALVES AND APPURTENANCES MAY BE OMITTED FOR THE SAKE OF CLARITY. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL HVAC SYSTEMS SHOWN ON THE DRAWINGS AND DETAILS, AND/OR AS DEFINED IN THE SPECIFICATIONS TO PROVIDE THE COMPLETE SYSTEM.
5. UNLESS OTHERWISE SHOWN ON THE DRAWING, ALL WALL PENETRATIONS SHALL BE AS SHOWN ON THE WALL PENETRATION DETAILS. ABOVE GROUND EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF APPROVED BY THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE ALTERNATE METHODS PROVIDING THEY MEET INTENDED DESIGN REQUIREMENTS.
6. NOT ALL AND ONLY CERTAIN TYPES OF SUPPORTS ARE SHOWN ON THE HVAC DRAWINGS. UNLESS OTHERWISE DETAILED ON THE DRAWINGS ALL PIPE AND DUCT SUPPORTS SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR AS SPECIFIED AND TO THE APPROVAL OF THE ENGINEER.
7. FOR ALL ROOF MOUNTED EQUIPMENT, MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY ROOF EDGE UNLESS GUARDRAILS HAVE BEEN PROVIDED.
8. UNLESS OTHERWISE NOTED, MOUNT ALL DUCTWORK AND PIPING TIGHT TO STRUCTURE. MAINTAIN A MINIMUM 7'-6" CLEAR HEIGHT BELOW DUCTWORK, INCLUDING SUPPORTS. COORDINATE INSTALLATION OF DUCTWORK WITH ALL OTHER NEW AND EXISTING EQUIPMENT, PIPING, CONDUIT, ETC.
9. SEE ELECTRICAL DRAWINGS FOR AREA ELECTRICAL/CODE RATING. ALL HVAC EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THOSE AREA CLASSIFICATIONS.

OUTDOOR AIR CALCULATIONS

BUILDING	SPACE	AREA (SQ.FT.)	VOLUME (CU.FT.)	ASHRAE 62.1 REQ'D VENTILATION RATE	ASHRAE 62.1 REQ'D VENTILATION	PROVIDED VENTILATION RATE	PROVIDED VENTILATION	VENTILATION PROVIDED BY	OUTDOOR AIR PROVIDED BY	ADDITIONAL VENTILATION PROVIDED BY	ADDITIONAL OUTDOOR AIR PROVIDED BY
OPERATIONS BUILDING	ADMINISTRATION AREAS	1,226	13,165	0.06 CFM/SQ. FT + 5 CFM/PERSON	114 CFM	SEE NOTES 3 AND 4	200 CFM	AHU-1	AHU-1	N/A	N/A
OPERATIONS BUILDING	JANITOR	N/A	N/A	50 CFM	50 CFM	N/A	50 CFM	EF-1	AHU-1	N/A	N/A
OPERATIONS BUILDING	TOILET/SHOWER	N/A	N/A	70 CFM/WC, 20 CFM/SH	90 CFM (1-WC, 1-SH)	N/A	125 CFM	EF-1	AHU-1	N/A	N/A
OPERATIONS BUILDING	ELECTRICAL BUILDING	N/A	N/A	SEE NOTE 2	SEE NOTE 2	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:

1. OUTDOOR AIR CALCULATIONS PROVIDED PER ASHRAE STANDARD 62 ARE PROVIDED FOR INFORMATIONAL AND CODE REVIEW PURPOSES ONLY. THE CALCULATIONS DO NOT CHANGE THE CONTRACT DOCUMENTS.
2. THIS AREA IS NORMALLY UNOCCUPIED AND IS NOT COVERED UNDER THE SCOPE OF ASHRAE 62.1.
3. TOTAL PEOPLE = 8; CFM = (5 CFM x 8 PEOPLE) + (0.06 CFM/SQ. FT x 1,226 SQ. FT) = 114 CFM.
4. TOTAL OUTSIDE AIR REQUIRED = 114 CFM
   TOTAL OUTSIDE AIR PROVIDED = 200 CFM

ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
AC/HR - AIR CHANGES PER HOUR
CFM/SQ. FT. - CUBIC FEET PER MINUTE PER SQUARE FOOT
N/A - NOT APPLICABLE
WC - WATER CLOSET
SH - SHOWER

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HVAC SYMBOLS AND ABBREVIATIONS

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL 4 POULIOT

PROJECT NO. 20790-289282
FILE NAME: HWZ000OB.RVT

SHEET NO.
H-1

ISSUED FOR BID

SEE ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT TO BE INSTALLED IN THIS AREA. THE INSTALLATION OF HVAC EQUIPMENT SHOWN ON THIS SHEET MUST BE COORDINATED PRIOR TO INSTALLATION. NO EQUIPMENT, PIPING, DUCTWORK, DIFFUSERS, REGISTERS, ETC. SHALL BE INSTALLED OVER ANY ELECTRICAL EQUIPMENT OR PANELS.

CONDENSATE DRYWELL

D HD-2 TYPICAL

HP-1

B HD-2

N

WAC-1

18"x18" RA-GS

8"x8" OA-GS

10x10 RG
300 CFM

C HD-2

E HD-2

MECHANICAL ROOM
A-102

AHU-1

ATC-1

10x6 SR1
150 CFM
(TYPICAL 2)

F HD-2

10"x10" SA-GS

10"x10" EA-AL

EF-1

6x6 EG
50 CFM

JANITOR
A-102A

TO EF-1

VD1

VD2

UC

16"x16" SA-GS

16"x16" RA-GS

16"x14" SA-GS

8"x8" EA-AL

TOILET/SHOWER
A-103

12x12 EG
125 CFM

12x12 SAD
100 CFM

6"ø SA-FLEX

6"x8" SA-GS

TO EF-1

I HD-2

WAC-2

1" C

TO WAC-2

30"x10" SA-GS

12"x8" SA-GS

12"x14" SA-GS

16"x14" SA-GS

20"x14" SA-GS

20"x16" SA-GS

18x6 SR2
455 CFM
(TYPICAL 5)

ELECTRICAL ROOM
A-101

TO WAC-1

A HD-2 TYPICAL OF 2

CONDENSATE DRYWELL

WAC-3

TO WAC-3

TO PLC

TO AHU-1

18x6 SR2
455 CFM
(TYPICAL 5)

20"x16" SA-GS

20"x14" SA-GS

16"x14" SA-GS

12"x14" SA-GS

12"x8" SA-GS

30"x10" SA-GS

24x24 SAD
225 CFM
(2-WAY)

9"ø SA-FLEX

10"x10" SA-GS

16"x10" SA-GS

16"x14" SA-GS

VD1

10"x10" RA-GS

H HD-2 TYPICAL

24x24 RG
CFM VARIES

TO ATC-1

OS

10

G HD-2 TYPICAL

8"x10" SA-GS

8"ø SA-FLEX

LAB
A-104

24x24 SAD
150 CFM
(3-WAY)

24x24 SAD
125 CFM
(3-WAY)

12"x16" RA-GS

24x24 RG
275 CFM

10"x10" RA-GS

24x24 SAD
200 CFM

CONTROL ROOM
A-100

OFFICE
A-105

CLOSET
A-100A

10"x12" RA-GS

12"x12" RA-GS

8"x8" RA-GS

24x24 RG
400 CFM

24x24 RG
200 CFM

HVAC FLOOR PLAN

3/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE LOCATIONS OF ALL HVAC PIPING, DUCTWORK, AND EQUIPMENT WITH ALL OTHER UTILITIES, PIPING, ELECTRICAL DUCT BANKS, CONDUIT, WIRING, LIGHTING, BUILDING STRUCTURES, ETC.

KEYNOTES

1. 16" x 16" INTAKE LOUVER. BALANCE TO 200 CFM. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
2. 16" x 16" x 24" AL INTAKE PLENUM.
3. UNDERCUT DOOR A MINIMUM OF 3/4".
4. 10" x 10" AL DUCT UP TO ROOF JACK.
5. FACTORY RETURN GRILLE.
6. FACTORY SUPPLY GRILLE.
7. SMOKE DETECTOR REMOTE TEST STATION INNOVAIR MODEL RTS451KEY. MOUNT 4'-0" AFF.
8. THE EXACT LOCATION OF THE DRYWELL AND CONDENSATE PIPING SHALL BE COORDINATED WITH ALL NEW AND EXISTING PIPING, STRUCTURES, AND EQUIPMENT PRIOR TO ANY WORK. TYPICAL.
9. MANUFACTURER'S RECOMMENDED CLEARANCE.
10. AIR CONDITIONING SYSTEM OCCUPANCY SWITCH.
11. ECONOMIZER. REQUIRES 40" CLEARANCE FOR INSTALLATION/REMOVAL.

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
HVAC FLOOR PLAN

PROJECT NO. 20790-289282
FILE NAME: HWZ000OB.RVT

SHEET NO.
H-2

ISSUED FOR BID

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AIR HANDLING UNIT

MARK	AREA SERVED	COOLING COIL						REFRIGERANT TYPE	AIRFLOW (CFM)	OSA CFM	ESP	HP	VOLTAGE (V)	PHASE (Ø)	MCA (A)	MOCP (A)	DRIVE	MANUFACTURER	MODEL	AUX. ELECTRIC HEAT				NOTES
		ENTERING AIR		LEAVING AIR		TOTAL MBH	SENSIBLE MBH													KW	VOLT (V)	PHASE (Ø)	NO. OF STAGES	
		DB (°F)	WB (°F)	LDB (°F)	LWB (°F)																			
AHU-1	OPERATIONS BUILDING ADMIN SPACES	80	67	60.10	58.10	41.083	31.776	R-454B	1500	200	0.5"	0.75	208	1	9.0	15.0	DIRECT	TRANE	5TEM6D06AV41SA	10.80	208	1	1	1-9

NOTES:
1. SEE SPECIFICATION SECTION 238126.
2. PROVIDE WITH COIL COATING PER THE SPECIFICATIONS.
3. PROVIDE WITH STAINLESS STEEL HARDWARE (EXTERNAL HARDWARE ONLY).
4. PROVIDE WITH CORROSION RESISTANT COIL CASING.
5. PROVIDE WITH CORROSION RESISTANT CONDENSATE PAN.
6. PROVIDE WITH PROGRAMMABLE 2-STAGE COOLING THERMOSTAT.
7. PROVIDE WITH CONDENSATE OVERFLOW SWITCH (SAFE-T-SWITCH MODEL SS2 OR EQUAL) ON AUXILIARY DRAIN CONNECTIONS.
8. PROVIDE ALL NECESSARY RELAYS, FITTINGS, WIRING, CONTACTS, ETC.
9. PROVIDE UNITS WITH REFRIGERANT LEAK DETECTORS AND ALL OTHER APPURTENANCES REQUIRED FOR A2L REFRIGERANTS PER CODE.

HEAT PUMP

MARK	MATCH WITH	SYSTEM CAPACITY		REFRIGERANT TYPE	CONDENSER	COMPRESSOR				VOLT (V)	PHASE (Ø)	MANUFACTURER	MODEL	HEATING CAP. @ 47°F (MBH)	HSPF	NOTES
		MBH	SEER		OSA °F	NO.	TYPE	MCA (A)	MOCP (A)							
HP-1	AHU-1	41.08	14.30	R-454B	95	1	SCROLL	24.0	40.0	208	1	TRANE	5TWR4042A1000	38.5	7.50	1-21

NOTES:
1. SEE SPECIFICATION SECTION 238126.
2. PROVIDE WITH CABINET COATING PER THE SPECIFICATIONS (INTERIOR AND EXTERIOR INCLUDING ALL SURFACES, COMPRESSOR, PIPING, CONDENSER FAN, ETC.)
3. PROVIDE WITH COIL COATING PER THE SPECIFICATIONS.
4. PROVIDE WITH STAINLESS STEEL HARDWARE (EXTERNAL HARDWARE ONLY).
5. PROVIDE WITH NON-RUST BASE PAN.
6. PROVIDE WITH SECURITY GRILLES/HAIL GUARD.
7. PROVIDE WITH DIGITAL COMPRESSOR.
8. PROVIDE WITH SERVICE VALVES.
9. PROVIDE WITH HIGH AND LOW PRESSURE SWITCHES.
10. PROVIDE WITH FILTER DRIER.
11. PROVIDE WITH PRESSURE RELIEF VALVE.
12. PROVIDE WITH THERMAL OVERLOAD.
13. PROVIDE WITH LOW AMBIENT CONTROLS TO 0°F.
14. PROVIDE WITH THERMOSTATIC EXPANSION VALVES.
15. PROVIDE WITH LIQUID LINE SOLENOID VALVE.
16. PROVIDE WITH CRANKCASE HEATER.
17. PROVIDE WITH EVAPORATOR FREEZE THERMOSTAT.
18. PROVIDE WITH HARD START KIT.
19. PROVIDE WITH TIME DELAY RELAY.
20. PROVIDE WITH WINTER START CONTROL.
21. PROVIDE WITH SUPPORT FEET.

PACKAGE WALL AIR CONDITIONING UNIT SCHEDULE

ITEM NO.	AREA SERVED	SHEET NO.	COIL DATA							FAN DATA						REFRIGERANT TYPE	MANUFACTURER MODEL	AUX. HEATING (KW)	COMPRESSOR					UNIT WEIGHT (LBS)	NOTES
			ENTERING AIR		LEAVING AIR		TOTAL MBH	SENSIBLE MBH	EER	CFM	OSA CFM	ESP	HP	DRIVE	VOLT PHASE				NO.	TYPE	RLA (A)	VOLT (V)	PHASE (Ø)		
			DB (°F)	WB (°F)	DB (°F)	WB (°F)																			
WAC-1	OPERATIONS BUILDING ELECTRICAL ROOM	H-2	80	67	56.7	55.1	59,280	45,671	11.4	2275	0	0.2"	3/4	DIRECT	460 V/3Ø	R-454B	BARD W60AFPC095MXX5C	9	1	SCROLL	9.3	460	3	583	1-15
WAC-2	OPERATIONS BUILDING ELECTRICAL ROOM	H-2	80	67	56.7	55.1	59,280	45,671	11.4	2275	0	0.2"	3/4	DIRECT	460 V/3Ø	R-454B	BARD W60AFPC095MXX5C	9	1	SCROLL	9.3	460	3	583	1-15
WAC-3	OPERATIONS BUILDING ELECTRICAL ROOM	H-2	80	67	56.7	55.1	59,280	45,671	11.4	2275	0	0.2"	3/4	DIRECT	460 V/3Ø	R-454B	BARD W60AFPC095MXX5C	9	1	SCROLL	9.3	460	3	583	1-15

NOTES:
1. PROVIDE WITH TYPE 3A OR 3B CABINET COATING (INTERIOR AND EXTERIOR).
2. PROVIDE WITH TYPE 4A OR 4B COIL COATING PER THE SPECIFICATIONS.
3. PROVIDE WITH FREEZESTAT.
4. PROVIDE WITH FACTORY ELECTRIC HEATER.
5. PROVIDE WITH 2" THICK FARR 30/30 FILTERS.
6. PROVIDE WITH CRANKCASE HEATER.
7. PROVIDE WITH LOW AMBIENT CONTROLS.
8. PROVIDE WITH ECONOMIZER.
9. PROVIDE WITH HEAD PRESSURE CONTROL VALVE AND RECEIVER.
10. PROVIDE WITH HIGH PRESSURE ALARM.
11. PROVIDE WITH TIME DELAY RELAY.
12. PROVIDE WITH FACTORY RETURN GRILL.
13. PROVIDE WITH SERVICE VALVES.
14. PROVIDE WITH 2-STAGE COOLING THERMOSTAT/1-STAGE HEATING.
15. PROVIDE WITH SUPPLY AIR AND RETURN AIR SMOKE DETECTORS.

EXHAUST FAN

MARK	AREA SERVED	AIRFLOW (CFM)	S.P.	SET	WHEEL	DRIVE	HP	V	P	FAN RPM	MAX SONE VALUE	MANUFACTURER	MODEL NO.	CONTROL	NOTES
EF-1	OPERATIONS BUILDING SHOWER/TOILET AND JANITOR	175	0.5	INLINE	CENT.	DIRECT	0.05	115	1Ø	1519	7.1	GREENHECK	SQ-80-VG	OCCUPANCY SENSOR	1-9

NOTES:
1. A = ALL ALUMINUM CONSTRUCTION
2. BDD = BACKDRAFT DAMPER
3. D = FACTORY DISCONNECT SWITCH
4. IH = INSULATED HOUSING
5. SS = STAINLESS STEEL FASTENERS
6. TENV = TOTALLY ENCLOSED NON-VENTILATED
7. VI = NEOPRENE VIBRATION ISOLATORS AND MOUNTING
8. VSC = VARIABLE SPEED CONTROLLER
9. FANS SHALL BE GREENHECK, COOK, PENN, OR EQUAL.

AIR DISTRIBUTION DEVICE SCHEDULE

SYMBOL	DESCRIPTION	MODEL	FRAME TYPE	MATERIAL	FINISH	REMARKS
EG	EXHAUST GRILLE	METAL*AIRE HD-RH	PLASTER OR LAY-IN	ALUMINUM	OFF-WHITE ENAMEL	ALUMINUM OPPOSED BLADE DAMPER
RG	RETURN DIFFUSER/GRILLE	METAL*AIRE HD-RH	PLASTER OR LAY-IN	ALUMINUM	OFF-WHITE ENAMEL	-
SAD	SUPPLY AIR DIFFUSER	METAL*AIRE 5000 SERIES	PLASTER OR LAY-IN	ALUMINUM	OFF-WHITE ENAMEL	-
SR1	SUPPLY REGISTER	METAL*AIRE V-4004	CHANNEL	ALUMINUM	OFF-WHITE ENAMEL	ALUMINUM OPPOSED BLADE DAMPER
SR2	SUPPLY REGISTER HIGH VELOCITY	METAL*AIRE RLD-DF	PLASTER	ALUMINUM	OFF-WHITE ENAMEL	ALUMINUM OPPOSED BLADE DAMPER
VD1	VOLUME DAMPER	RUSKIN MD-35	CHANNEL	GALV STEEL	-	LOCKING HAND QUADRANT
VD2	VOLUME DAMPER	RUSKIN CD-50	CHANNEL	ALUMINUM	OFF-WHITE ENAMEL	LOCKING HAND QUADRANT

NOTES:
1. VOLUME DAMPER MATERIAL SHALL MATCH DUCTWORK MATERIAL AS SHOWN ON THE PLANS.
2. DAMPERS SHALL BE RUSKIN, GREENHECK, POTTORFF, OR EQUAL.
3. AIR DISTRIBUTION DEVICES SHALL BE METAL*AIRE, TITUS, PRICE, OR EQUAL.

CONTROL COMPONENT SCHEDULE

SYMBOL	DESCRIPTION
(T)	REFER TO THE AIR HANDLING UNIT SCHEDULE AND THE SPECIFICATIONS FOR AIR HANDLING UNIT THERMOSTAT REQUIREMENTS.
(SD)	IONIZATION TYPE SMOKE DETECTOR SYSTEM SENSOR INNOVAIR MODEL DH100ACDCI OR EQUAL. REFER TO SPECIFICATION 233300 FOR DETAILS.
(HT)	HEAVY DUTY, CORROSION RESISTANT LINE VOLTAGE THERMOSTAT/HIGH TEMPERATURE SWITCH JOHNSON CONTROLS A19BAF-1C OR EQUAL WITH CLEAR LOCKING COVER. SET AT 95°F.
[M]	LOW LEAKAGE DAMPER, GREENHECK MODEL VCD-43 WITH BELIMO MODEL AFBUP WITH NEMA 2 HOUSING. COORDINATE FINAL VOLTAGE WITH ELECTRICAL AND AUTOMATIC TEMPERATURE CONTROL CONTRACTORS/SUPPLIERS.
(OS)	MANUAL ON/OFF OCCUPANCY TOGGLE SWITCH

DUCTWORK MATERIAL SCHEDULE

SYMBOL	DESCRIPTION
GS	GALVANIZED STEEL INSULATED DUCTWORK PER SMACNA STANDARDS. REFER TO SPECIFICATION SECTION 233113.
AL	ALUMINUM DUCTWORK PER SMACNA STANDARDS. REFER TO SPECIFICATION SECTION 233113.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
DATE: JULY 2025

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

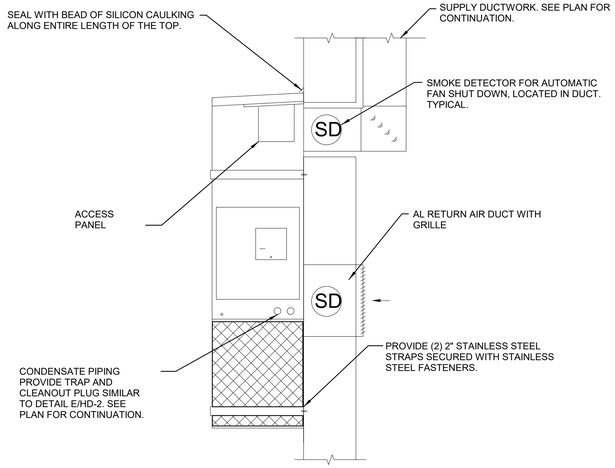
HVAC SCHEDULES

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A POULIOT

PROJECT NO. 20790-289282
FILE NAME: HWZ000OB.RVT

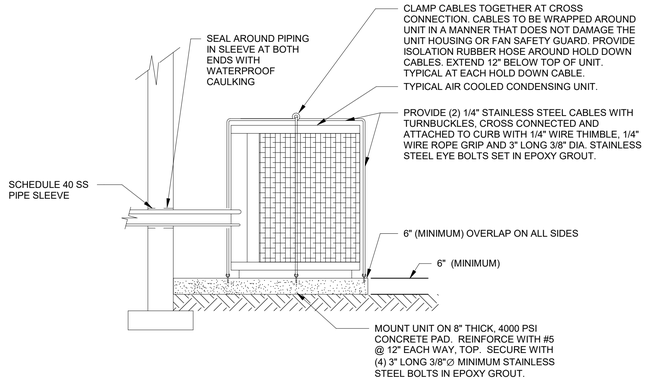
SHEET NO.
HD-1

ISSUED FOR BID



WAC MOUNTING (WAC-1, WAC-3)

A DETAIL
NTS

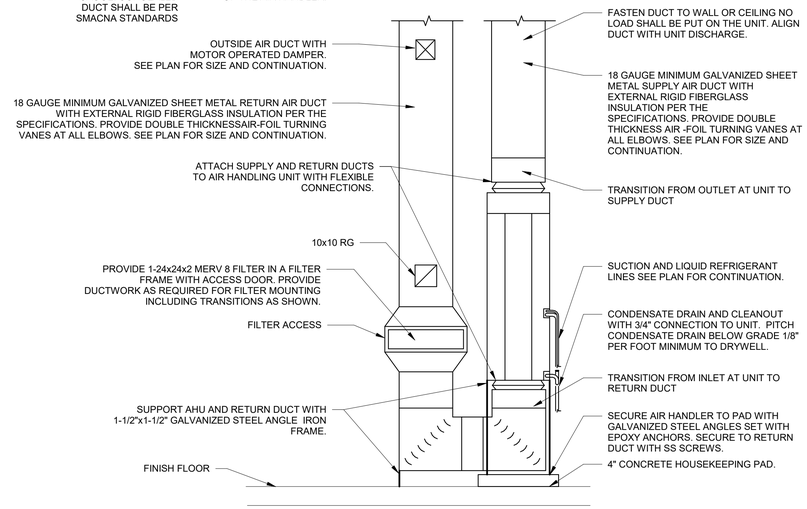


THROUGH THE WALL PIPING AND HEAT PUMP MOUNTING

B DETAIL
NTS

NOTE: ALL EXPOSED RECTANGULAR DUCT SHALL BE MINIMUM 18 GAUGE. CONCEALED DUCT SHALL BE PER SMACNA STANDARDS

NOTE: ALL DUCT SUPPORTS TO BE TOTALLY INDEPENDENT OF THE AIR HANDLER.

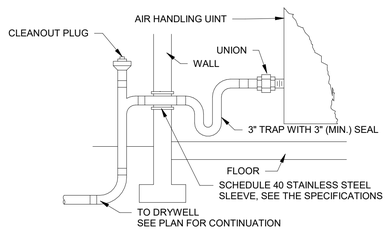


AHU MOUNTING

C DETAIL
NTS

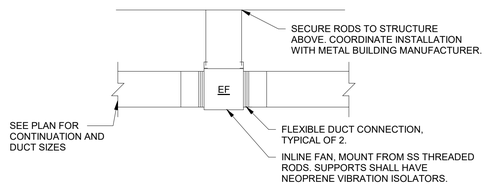
CONDENSATE DRYWELL

D DETAIL
NTS



CONDENSATE DRAIN

E DETAIL
NTS



INLINE FAN MOUNTING

F DETAIL
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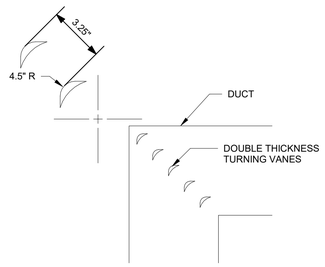

TURNING VANE

G DETAIL
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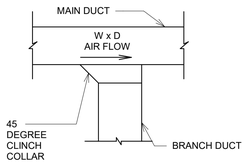
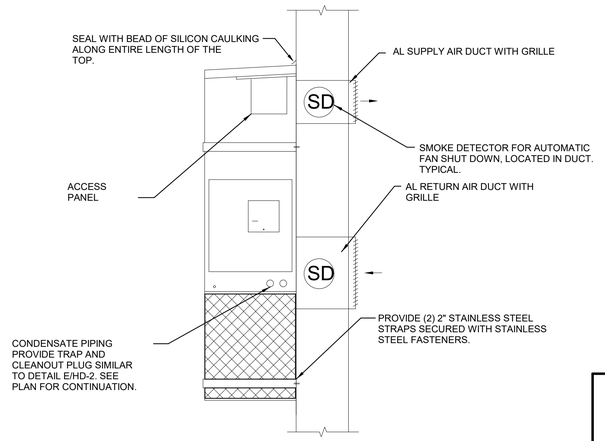


TEE 45 DEGREE ENTRY BRANCH

H DETAIL
NTS



WAC MOUNTING (WAC-2)

I DETAIL
NTS

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
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CONTROL SEQUENCES:

1. AIR COOLED UNIT WITH SPACE THERMOSTAT CONTROL UNITS (AHU-1/HP-1)

A. WHEN THE UNIT THERMOSTAT ON/OFF SWITCH IS PLACED IN THE OFF POSITION, THE TEMPERATURE CONTROLS SHALL BE INACTIVATED, THE SUPPLY FAN AND CONDENSING UNIT SHALL BE OFF.

B. WHEN THE UNIT THERMOSTAT IS PLACED IN THE ON POSITION AND THE SYSTEM FAN ON/AUTO SWITCH IS IN THE ON POSITION, THE TEMPERATURE CONTROLS SHALL BE ACTIVATED, AND THE FAN SHALL RUN CONTINUOUSLY.

1) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS ABOVE THE COOLING SET POINT (75°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE ON IN COOLING MODE.

2) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS BELOW THE COOLING SET POINT (75°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE OFF.

3) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS BELOW THE HEATING SET POINT (70°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE ON IN HEATING MODE. AT A CONTINUED DROP IN SPACE TEMPERATURE, THE AUXILIARY ELECTRIC HEAT SHALL BE ACTIVATED.

4) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS ABOVE THE HEATING SET POINT (70°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE OFF.

C. WHEN THE UNIT THERMOSTAT IS PLACED IN THE ON POSITION AND THE SYSTEM FAN ON/AUTO SWITCH IS IN THE AUTO POSITION, THE TEMPERATURE CONTROLS SHALL BE ACTIVATED.

1) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS ABOVE THE COOLING SET POINT (75°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE ON IN COOLING MODE, AND THE SUPPLY FAN SHALL BE ON.

2) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS BELOW THE COOLING SET POINT (75°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE OFF, AND THE SUPPLY FAN SHALL BE OFF.

3) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS BELOW THE HEATING SET POINT (70°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE ON IN HEATING MODE, AND THE SUPPLY FAN SHALL BE ON. AT A CONTINUED DROP IN SPACE TEMPERATURE, THE AUXILIARY ELECTRIC HEAT SHALL BE ACTIVATED.

4) WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS ABOVE THE HEATING SET POINT (70°F ADJUSTABLE), THE CONDENSING UNIT SHALL BE OFF, AND THE SUPPLY FAN SHALL BE OFF.

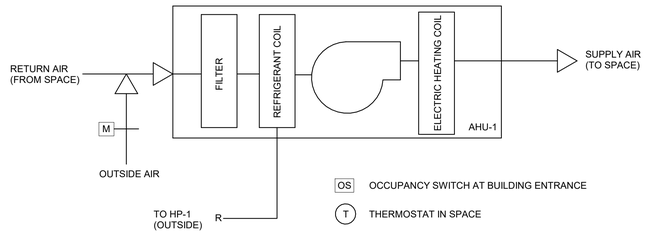
D. OCCUPANCY SWITCH OPERATION

1) WHEN THE OCCUPANCY SWITCH IS IN THE OCCUPIED MODE THE OUTSIDE AIR MOTOR OPERATED DAMPER SHALL BE OPEN AND THE UNIT SHALL OPERATE PER THE CONTROL SEQUENCES ABOVE.

2) WHEN THE OCCUPANCY SWITCH IS IN THE UNOCCUPIED MODE, THE OUTSIDE AIR MOTOR OPERATED DAMPER SHALL BE CLOSED AND THE TEMPERATURE SETTINGS SHALL BE SET TO NIGHTIME SET BACK TEMPERATURES OF 85°F COOLING AND 68°F HEATING.

E. THE SPACE THERMOSTAT SHALL HAVE AN ADJUSTABLE SET POINT. THE COOLING SET POINT FOR AHU-1 SHALL BE 75ºF. THERMOSTATS SHALL HAVE AUTOMATIC CHANGEOVER FROM HEATING TO COOLING. THE HEATING SET POINT FOR AHU-1 SHALL BE 70ºF.

F. DUAL (OR TWO-SPEED) COMPRESSORS SHALL HAVE TWO STAGES OF COOLING.



AHU-1 CONTROL COMPONENT DIAGRAM

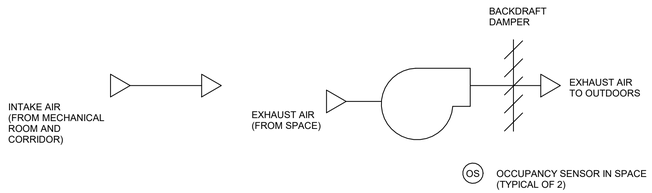
A DETAIL
NTS

CONTROL SEQUENCES:

1. EXHAUST FAN (EF-1)

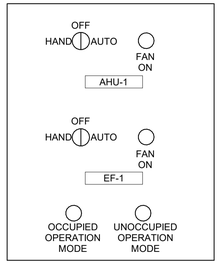
1.1. WHEN THE OCCUPANCY SENSOR IS NOT ACTIVATED, THE FAN SHALL BE OFF, AND THE BACKDRAFT DAMPERS SHALL BE CLOSED.

1.2. WHEN THE OCCUPANCY SENSOR IS ACTIVATED, THE FAN SHALL RUN, AND THE BACKDRAFT DAMPERS SHALL BE OPEN.



EF-1 EXHAUST FAN CONTROL COMPONENT DIAGRAM

C DETAIL
NTS



ATC-1 PANEL FACE

ATC PANEL GENERAL NOTES

1. PROVIDE SINGLE SOURCE SUPPLIER/INSTALLER RESPONSIBILITY FOR ATC EQUIPMENT.

2. ELECTRICAL ENCLOSURES AND PANELS TO INCLUDE AUTOMATIC TEMPERATURE CONTROL PANELS AND COMPONENTS SHALL BE SUITABLE FOR THE ENVIRONMENT AND ELECTRICAL CLASSIFICATION FOR THE SPACE THEY ARE LOCATED IN. THE TYPE OF ENCLOSURE FOR THE VARIOUS SPACES SHALL BE AS SPECIFIED IN DIVISION 26. REFER TO THE ELECTRICAL DRAWINGS FOR THE SPACE CLASSIFICATIONS.

3. WHERE SHOWN ON THE DRAWINGS PROVIDE LOCAL ATC PANELS.
   a. ALL CONTROLLERS, RELAYS, SWITCHES, ETC., FOR EQUIPMENT SHALL BE MOUNTED WITHIN ATC CABINETS WITH HINGE LOCK TYPE DOORS WHERE SHOWN ON THE DRAWINGS. ALL TEMPERATURE SETTINGS, ADJUSTMENTS AND CALIBRATIONS SHALL BE MADE AT THE SYSTEM CONTROL PANEL.

   b. SUBMIT DETAILS OF EACH ATC PANEL FOR APPROVAL PRIOR TO FABRICATION. LOCATIONS OF EACH PANEL ARE TO BE CONVENIENT FOR ADJUSTMENT AND SERVICE. PROVIDE ENGRAVED NAMEPLATES BENEATH EACH PANEL MOUNTED CONTROL DEVICE CLEARLY DESCRIBING THE FUNCTION OF SAID DEVICE AND RANGE OF OPERATION. ALL MANUAL SWITCHES AND DIAL THERMOMETERS SHALL BE FLUSH MOUNTED ON THE HINGED DOOR, WITH PERMANENT LABELS SHOWING THE FUNCTION OF EACH ITEM. ALL OTHER DEVICES SHALL BE LOCATED WITHIN THE CABINET MOUNTED TO A SUB PANEL.

   c. ALL ELECTRICAL DEVICES WITHIN THE PANELS SHALL BE FACTORY PRE-WIRED TO A NUMBERED TERMINAL STRIP. ALL WIRING WITHIN THE PANEL SHALL BE IN ACCORDANCE WITH NEMA AND UL STANDARDS AND SHALL MEET ALL LOCAL CODES.

   d. UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS, CONTROL PANELS SHALL MEET THE REQUIREMENTS FOR ELECTRICAL PRODUCTS SPECIFIED ELSEWHERE IN THIS SECTION.

   e. ELECTRICAL POWER SUPPLIED TO AUTOMATIC TEMPERATURE CONTROL PANELS SHALL BE 120V, SINGLE PHASE, 60HZ. WHERE 24V POWER IS REQUIRED, A 120/24 TRANSFORMER SHALL BE PROVIDED. THE TRANSFORMERS SHALL BE SIZED FOR THEIR CONTROL SYSTEM ELECTRICAL LOADS. TRANSFORMERS SHALL BE MOUNTED IN THE LOCAL CONTROL PANEL.

   f. PROVIDE A 110V POWER RECEPTACLE IN EACH PANEL.

   g. PROVIDE A COPY OF THE WIRING AND CONTROL DIAGRAM FOR ALL WORK IN EACH PANEL. THE DIAGRAM IS TO BE STORED IN A POCKET ON THE DOOR.

4. MISCELLANEOUS DEVICES - PROVIDE ALL THE NECESSARY RELAYS, LIMIT SWITCHES, POSITIONERS, CLOCKS, TRANSFORMERS, ETC., TO MAKE A COMPLETE AND OPERABLE SYSTEM. LOCATE THESE DEVICES ON LOCAL ATC PANEL UNLESS SPECIFIED OTHERWISE.

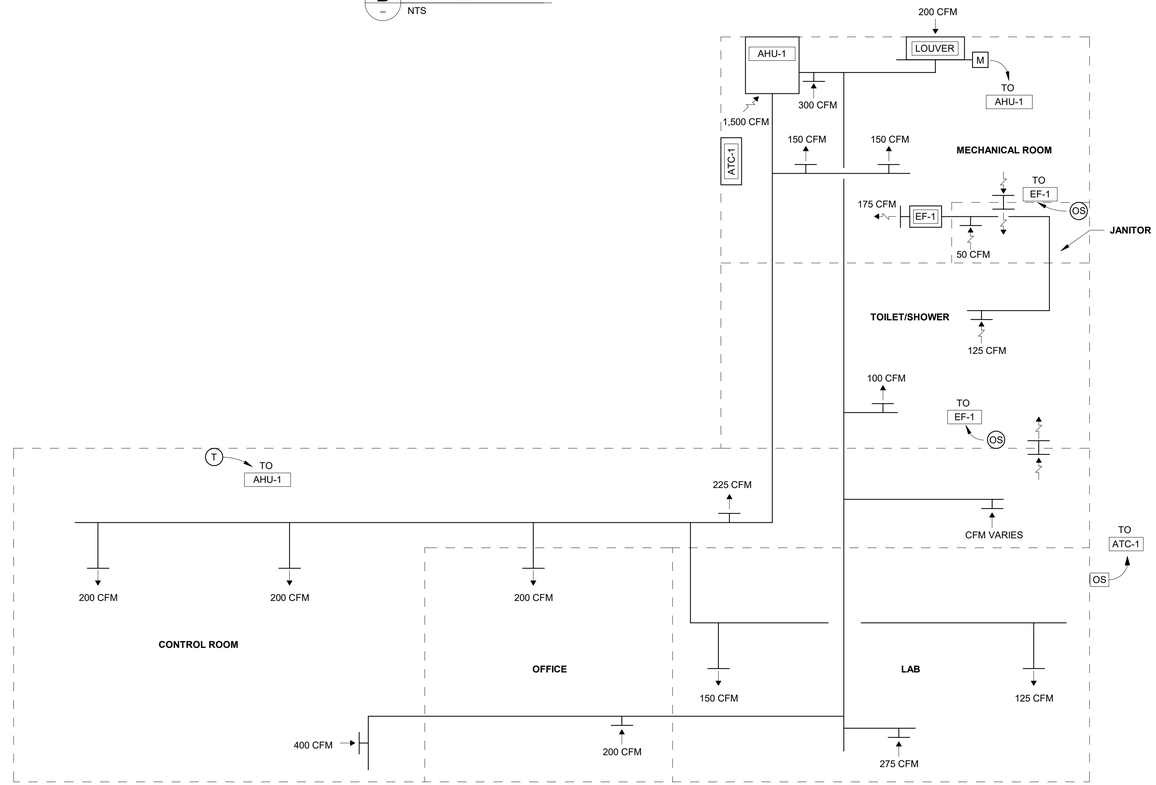
5. ALARMS FROM THE HVAC SYSTEMS THAT PROVIDE A SIGNAL TO THE PLC SHALL BE PROVIDED WITH TWO SETS OF DRY CONTACT OUTPUTS. ONE SET SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR FOR THE INSTRUMENTATION SYSTEM. THE SECOND CONTACT SHALL BE USED TO PROVIDE AN HVAC SIGNAL.

6. REFER TO ELECTRICAL DRAWINGS FOR DETAILS OF WIRING AT MOTOR CONTROL PANELS. PROVIDE ALL INTERCONNECTING WIRING TO START AND STOP MOTORS.

7. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

ATC-1 PANEL

B DETAIL
NTS



ADMIN SPACES AIR FLOW DIAGRAM

D DETAIL
NTS

ADMINISTRATIVE AREAS DESIGN TEMPERATURE AND VENTILATION RATES

SPACE	MODE	SUMMER INDOOR TEMP	WINTER INDOOR TEMP	VENTILATION
CONTROL ROOM	NORMAL	75°F	70°F	N/A
JANITOR	OCCUPIED	75°F	70°F	50 CFM
LAB	NORMAL	75°F	70°F	N/A
MECHANICAL ROOM	NORMAL	75°F	70°F	N/A
OFFICE	NORMAL	75°F	70°F	N/A
TOILET/SHOWER	OCCUPIED	75°F	70°F	125 CFM

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HVAC CONTROL DIAGRAM
AND AIRFLOW SCHEMATICS I

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: HWZ000OB.RVT

SHEET NO.
HD-3

ISSUED FOR BID

CONTROL SEQUENCES:

ELECTRICAL ROOM PACKAGED AIR CONDITIONING UNITS WITH SPACE THERMOSTAT CONTROL ARE DESIGNED FOR INTERMITTENT OPERATION TO PROVIDE SPACE COOLING FOR ELECTRICAL ROOMS TO PROTECT EQUIPMENT FROM THE EFFECTS OF HEAT AND HUMIDITY. UNITS ARE DESIGNED FOR THE SUPPLY FAN TO CYCLE ON/OFF WITH THE COOLING/HEATING FUNCTIONS. THREE UNITS ARE PROVIDED WHICH ARE SIZED AT 50% OF THE ELECTRICAL ROOM PEAK LOAD WITH (2) UNITS OPERATING (DUTY) AND (1) UNIT AS A STANDBY.

1. WHEN THE UNIT THERMOSTAT ON/OFF SWITCH IS PLACED IN THE OFF POSITION, THE TEMPERATURE CONTROLS SHALL BE INACTIVATED. THE SUPPLY FAN AND COMPRESSORS SHALL BE OFF.

2. WHEN SMOKE IS SENSED BY THE SUPPLY AIR OR RETURN AIR SMOKE SENSOR, ALL OTHER CONTROL FUNCTIONS SHALL BE OVERRIDDEN AND THE SUPPLY FAN SHALL BE OFF, AND AN ALARM LIGHT IN THE REMOTE SMOKE SENSOR ALARM/TEST/RESET STATION SHALL BE ACTIVATED FOR THE AFFECTED SMOKE SENSOR. SMOKE SENSORS SHALL BE MANUALLY RESET AT THE REMOTE SMOKE SENSOR ALARM/TEST/RESET STATION. ANY SMOKE DETECTOR SHALL SHUT ALL UNITS DOWN IN THE SPACE. SMOKE DETECTORS SHALL BE INTERLOCKED SUCH THAT ANY SMOKE DETECTOR ACTIVATION SHALL SHUT DOWN ALL UNIT SUPPLY FANS (WAC-1, WAC-2, WAC-3).

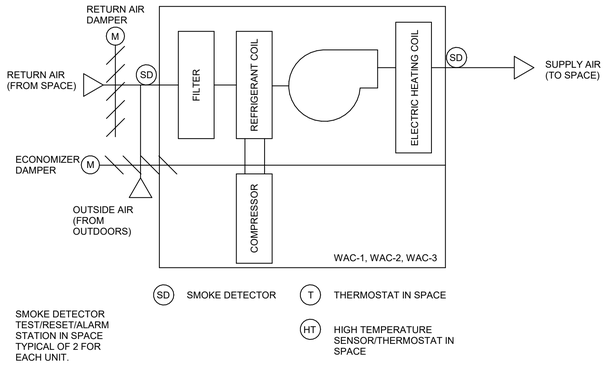
3. WHEN THE UNIT THERMOSTAT IS PLACED IN THE ON POSITION AND THE SYSTEM FAN ON/AUTO SWITCH IS IN THE AUTO POSITION, THE TEMPERATURE CONTROLS SHALL BE ACTIVATED.
   - 3.1. WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS ABOVE THE COOLING SET POINT, THE COMPRESSORS SHALL BE ON COOLING MODE, AND THE SUPPLY FAN SHALL BE ON AND THE MOTOR OPERATED SUPPLY DAMPER SHALL BE OPEN.
   - 3.2. WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS BELOW THE COOLING SET POINT, THE COMPRESSORS SHALL BE OFF, AND THE SUPPLY FAN SHALL BE OFF AND THE MOTOR OPERATED SUPPLY DAMPER SHALL BE CLOSED.
   - 3.3. WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS BELOW THE HEATING SET POINT, THE SUPPLY FAN SHALL BE ON. THE COMPRESSORS SHALL BE OFF, AND THE ELECTRIC HEAT SHALL BE ACTIVATED AND THE MOTOR OPERATED SUPPLY DAMPER SHALL BE OPEN.
   - 3.4. WHEN THE SPACE TEMPERATURE SENSED BY THE SPACE THERMOSTAT IS ABOVE THE HEATING SET POINT, THE SUPPLY FAN SHALL BE OFF, THE COMPRESSORS SHALL BE OFF, AND THE ELECTRIC HEATER SHALL BE OFF AND THE MOTOR OPERATED SUPPLY DAMPER SHALL BE CLOSED.

4. COMPRESSORS SHALL CYCLE ON/OFF AND MODULATE VIA THE UNIT FACTORY CONTROLS.

5. UNITS SHALL INCLUDE INTEGRAL FACTORY CONTROLS FOR AN ECONOMIZER MODE. THE ECONOMIZER OPERATION SHALL BE CONTROLLED BY THE OUTDOOR AIR TEMPERATURE AND DIFFERENTIAL COMPARATIVE ENTHALPY.
   - 5.1. THE ECONOMIZER MODE SHALL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN 75°F AND THE OUTDOOR ENTHALPY IS LESS THAN RETURN AIR ENTHALPY.
   - 5.2. IN ECONOMIZER MODE, THE UNIT SHALL MODULATE THE INTEGRAL OUTSIDE AIR DAMPER AND THE RETURN AIR DAMPER TO MAINTAIN A MINIMUM SPACE TEMPERATURE SETPOINT OF 55°F.
   - 5.3. IF THE SPACE AIR TEMPERATURE DROPS BELOW 50°F, THE UNIT SHALL OPERATE PER THE HEATING CONTROL SEQUENCES ABOVE.
   - 5.4. IF THE OUTSIDE AIR TEMPERATURE IS ABOVE 75°F, UNIT SHALL OPERATE PER THE COOLING CONTROL SEQUENCES ABOVE.

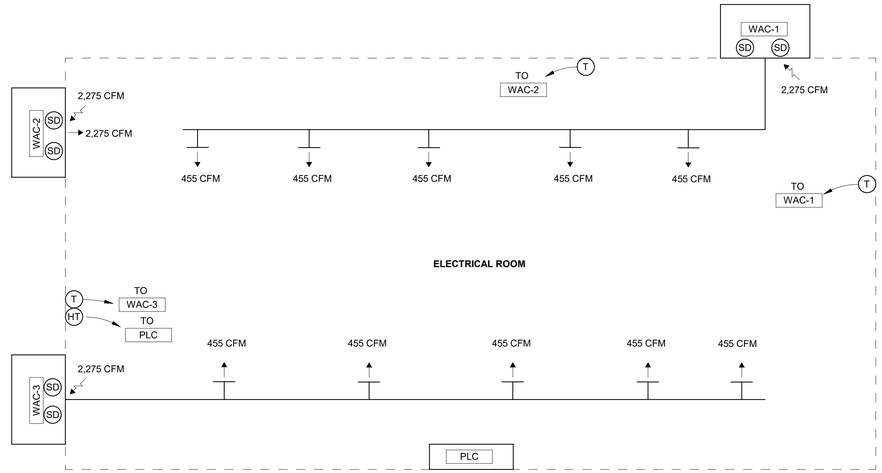
6. THE SPACE THERMOSTATS SHALL HAVE ADJUSTABLE SET POINTS. THE INITIAL COOLING SET POINT FOR WAC-1 SHALL BE 78°F. THE INITIAL COOLING SET POINT FOR WAC-2 SHALL BE 82°F. THE INITIAL COOLING SET POINT FOR WAC-3 SHALL BE 86°F. THE INITIAL HEATING SET POINT FOR WAC-1 SHALL BE 50°F. THE INITIAL HEATING SET POINT FOR WAC-2 SHALL BE 46°F. THE INITIAL HEATING SET POINT FOR WAC-3 SHALL BE 42°F. THE CONTRACTOR SHALL INSTRUCT THE OWNER TO ALTERNATE SET POINTS EVERY (2) WEEKS.

7. PROVIDE A SPACE HIGH TEMPERATURE SENSOR/THERMOSTAT. REFER TO THE DRAWINGS FOR LOCATION. SPACE HIGH TEMPERATURE SENSOR/THERMOSTAT SHALL HAVE AN ADJUSTABLE HIGH LIMIT SET POINT WITH AN INITIAL SETTING OF 95°F. SENSOR SHALL SEND A HIGH SPACE TEMPERATURE ALARM SIGNAL TO THE INSTRUMENTATION SYSTEM. SEE THE ELECTRICAL AND INSTRUMENTATION DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE INTERFACE WITH THE INSTRUMENTATION SYSTEM.



WAC-1, WAC-2, WAC-3 AIR CONDITIONING CONTROL COMPONENT DIAGRAM

A DETAIL
NTS



ELECTRICAL ROOM AIR FLOW DIAGRAM

B DETAIL
NTS

ELECTRICAL ROOM DESIGN TEMPERATURE AND VENTILATION RATES

MODE	SUMMER INDOOR TEMP	WINTER INDOOR TEMP	VENTILATION
NORMAL	80°F	50°F	N/A

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4651 Salsbury Road, Suite 420
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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HVAC CONTROL DIAGRAM
AND AIRFLOW SCHEMATICS II

PROJECT NO. 20790-289282
FILE NAME: HWZ000OB.RVT

SHEET NO.
HD-4

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

ISSUED FOR BID

PLUMBING ABBREVIATIONS

(E)	EXISTING, TO REMAIN
@	AT
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AV	ACID VENT
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BFS	BOTTLE FILL STATION
BLDG	BUILDING
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CAVITY DRAIN
CI	CAST IRON
CL	CENTERLINE
CO	CLEANOUT
CONT	CONTINUOUS, CONTINUE
CS	CUP SINK
CU FT	CUBIC FEET
CV	CHECK VALVE
CW	COLD WATER
DI	DUCTILE IRON
DN	DOWN
DW	DISHWASHER
DWG	DRAWING
DWV	DRAIN WASTE VENT
E	EMERGENCY WATER
ECO	EXTERIOR CLEANOUT
EL	ELEVATION
ES	EMERGENCY SHOWER
ES/EW	EMERGENCY SHOWER AND EYEWASH
EWC	ELECTRIC WATER COOLER
EWST	EMERGENCY WATER STORAGE TANK
EWU	EYEWASH UNIT
F/BS	FACE/BODY SPRAY
FAS	FLOW ALARM SWITCH
FCO	FLUSH FLOOR CLEANOUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FHV&C	FIRE HOSE VALVE AND CABINET
FS	FLOW SWITCH
FV	FIRE VALVE
G	GAS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HEV	HOSE END VALVE
HP	HANDICAPPED
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
INV	INVERT
IOS	INSTALLED BY OHTER SECTION
IPS	IRON PIPE SIZE
KS	KITCHEN SINK
KU	KITCHEN UNIT
KW	KILOWATT
LAB	LABORATORY
LAV	LAVATORY

PLUMBING ABBREVIATIONS

LBV	LOCKABLE BALL VALVE
LCW	LAB COLD WATER
LHW	LAB HOT WATER
LS	LAB SINK
MAX	MAXIMUM
MB	MOP BASIN
MIN	MINIMUM
MXV	MIXING VALVE
NO	NUMBER
NP	NOT PROVIDED
OED	OPEN END OR OPEN EQUIPMENT DRAIN
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAIN LEADER
P	PHASE
P&T	PRESSURE & TEMPERATURE
PD	PUMP DISCHARGE
PG	PRESSURE GAUGE
PH	POST HYDRANT
PHW	PROTECTED HOT WATER
PMP	PUMP
PP	POLYPROPYLENE
PRW	PRESSURE WASTE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PW	PROTECTED WATER
RD	ROOF DRAIN
RL	RAINLEADER
RM	ROOM
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SOIL
SH	SHOWER
SHT	SHEET
SP	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
ST	SAND TRAP
TD	TRENCH OR TOUGH DRAIN
THK	THICKNESS
TP	TRAP PRIMER
TXV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VE	VACUUM EXHAUST
VTR	VENT THROUGH ROOF
W	WASTE
W&V	WASTE & VENT
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WHS	WASH HOSE STATION

NOTE:

1. SYMBOLS AND ABBREVIATIONS SHOWN ON THE SHEET ARE GENERIC AND MAY NOT HAVE BEEN USED ON THE PROJECT.

PLUMBING SYMBOLS

———	SANITARY
———	VENT
- - - -	COLD WATER (POTABLE)
— — —	HOT WATER (POTABLE)
—A—	COMPRESSED AIR
—AV—	ACID VENT
—AW—	ACID WASTE
— E —	EMERGENCY WATER
—ES—	EMERGENCY SHOWER (EMERGENCY SHOWER-LAB ONLY)
—FL—	FIRE LINE
—FS—	FIRE SERVICE WATER (POTABLE)
— G—	GAS
—LWC—	LABORATORY COLD WATER (NON-POTABLE)
—LWH—	LABORATORY HOT WATER (NON-POTABLE)
— PD —	PUMP DISCHARGE
— P —	PROTECTED WATER (NON-POTABLE)
—PHW—	PROTECTED HOT WATER (NON-POTABLE)
—PRW—	PRESSURE WASTE
— RL —	RAINLEADER
—SP—	SPRINKLER LINE

PLUMBING SYMBOLS

— V—	VACUUM
—VE—	VACUUM EXHAUST
	VALVE
	LOCKABLE BALL VALVE
	CHECK VALVE
	FLOW ALARM SWITCH
	ES/EW- EMERGENCY SHOWER/EYEWASH
WHA	WATER HAMMPER ARRESTOR
	CLEANOUTS
	WATER PROOF SLEEVE
	FLOOR DRAIN OR ROOF DRAIN
1	PROTECTED WATER CONNECTION IDENTIFICATION NUMBER
	OPEN END DRAIN
	EQUIPMENT PROVIDED UNDER PLUMBING SECTION
	EQUIPMENT PROVIDED BY OTHERS REQUIRING PLUMBING CONNECTION
	DN OR DROP
	UP OR RISE
	POINT WHERE NEW CONSTRUCTION CONNECTS TO EXISTING CONSTRUCTION
	POINT BETWEEN EXISTING CONSTUCTION TO REMAIN AND EXISTING CONSTRUCTION TO BE DEMOLISHED
	MIXING VALVE

PLUMBING NOTES

1. EQUIPMENT AND PIPING SYSTEM LAYOUTS ARE DIAGRAMMATIC AND INTENDED TO SHOW PIPING AND DUCT BASIS OF DESIGN. IF THE CONTRACTOR PROPOSES TO FURNISH EQUIPMENT THAT REQUIRES AN ARRANGEMENT OR SPACE DIFFERING FROM THAT INDICATED ON THE DRAWINGS OR SPECIFIED, THEY SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL, DETAILED ARCHITECTURAL, STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL DRAWINGS AND EQUIPMENT LISTS SHOWING ALL NECESSARY CHANGES TO ALL DISCIPLINES AND EMBODYING ALL FEATURES OF THE EQUIPMENT THE CONTRACTOR PROPOSES TO FURNISH. THIS INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO PLANS, SECTIONS, DETAILS, AND SCHEMATICS OF ALL APPURTENANCES REQUIRED BY ALL DISCIPLINES. SUCH CHANGES IF APPROVED BY THE ENGINEER SHALL BE AT NO EXTRA COST TO THE OWNER. THE CONTRACTOR SHALL ASSUME THE COST OF, AND THE RESPONSIBILITY FOR SATISFACTORILY ACCOMPLISHING ALL THE NECESSARY CHANGES CORRESPONDING TO THE DIMENSIONS AND CHARACTERISTICS OF THE EQUIPMENT SUBMITTED INCLUDING CHANGES TO ALL OTHER TRADES TO SATISFACTION OF ENGINEER. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.
2. CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS AND ALL OTHER DEBRIS MADE DURING THE WORK THEY HAVE COMPLETED, AT THE END OF EACH WORK DAY. REFER TO SPECIFICATION SECTION 017419.
3. ELEVATIONS ARE GIVEN AS REFERENCE FOR THE INTENDED ROUTING OF THE NEW WORK. THE PLUMBING CONTRACTOR SHALL COORDINATE EXACT ROUTING. ALL WORK SHALL BE INSTALLED WITH THE PROPER PITCH. COORDINATE WITH OTHER TRADES AND EXISTING CONDITIONS TO AVOID INTERFERENCES.
4. PLUMBING EQUIPMENT, PIPING, ETC. SHALL NOT BE LOCATED ABOVE ELECTRICAL PANELS OR IN ELECTRICAL ROOMS.
5. COORDINATE ALL MOTOR SIZES, STARTERS, DISCONNECT SWITCHES, CONTROLS, ETC, WITH ELECTRICAL PRIOR TO THE RELEASE OF ANY EQUIPMENT.
6. WHERE PIPING PENETRATES A RATED PARTITION THE CONTRACTOR SHALL MAINTAIN INTEGRITY OF THE PARTITIONS USING U.L. APPROVED SEALING METHODS TO MATCH THE PARTITION RATING.
7. PLUMBING CONTRACTOR SHALL PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS REQUIRED IN FINAL ROUTING OF PIPING.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
9. MINIMUM SLOPE FOR ALL SANITARY WASTE, AND STORM WATER PIPING IS 1/8" PER FOOT OR AS REQUIRED BY CODE.

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DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PLUMBING SYMBOLS AND ABBREVIATIONS

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT
SHEET NO. P-1

ISSUED FOR BID

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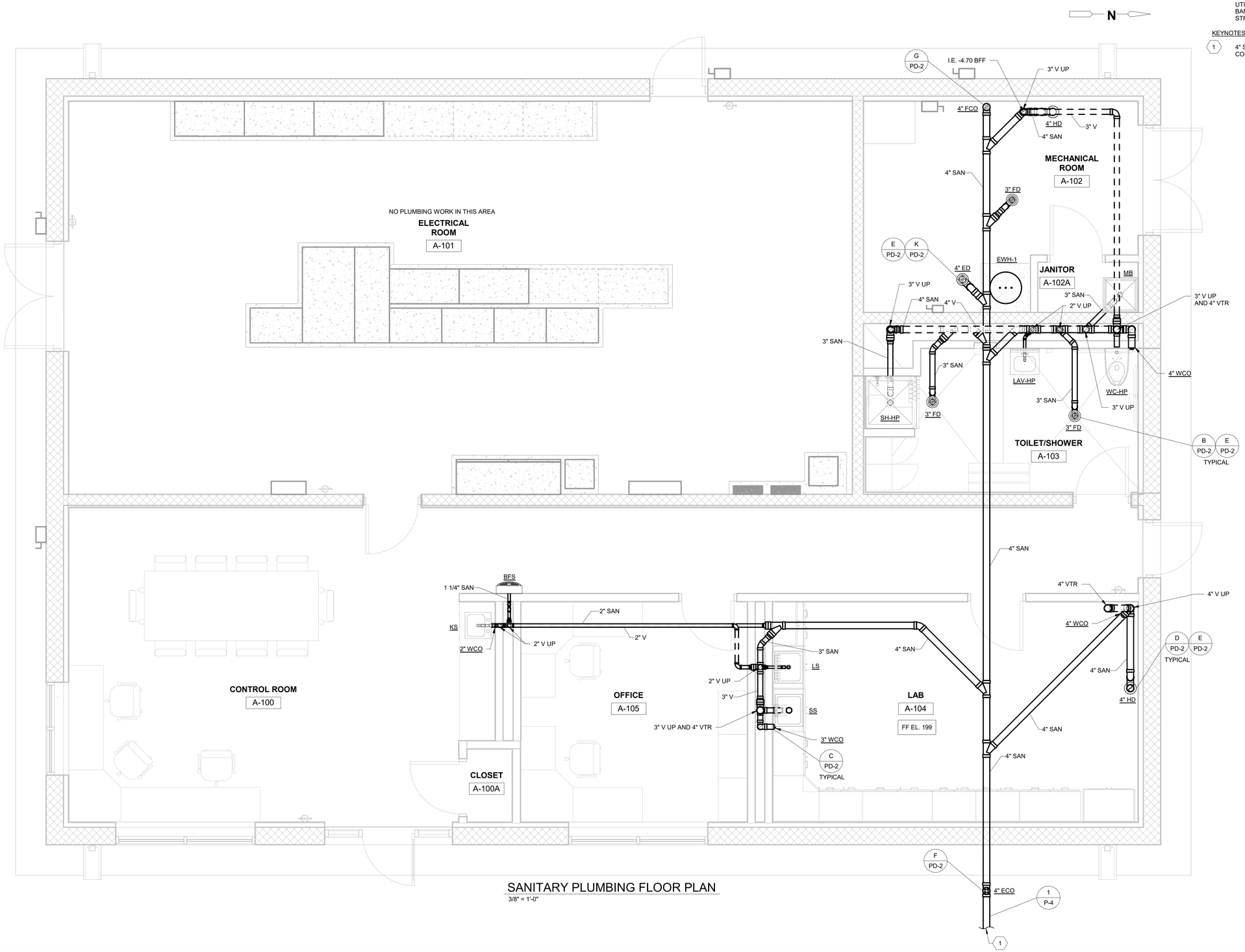
GENERAL NOTES:

1. COORDINATE LOCATIONS OF ALL PLUMBING PIPING, FIXTURES, AND EQUIPMENT WITH ALL OTHER UTILITIES, PIPING, DUCTWORK, ELECTRICAL DUCT BANKS, CONDUIT, WIRING, LIGHTING, BUILDING STRUCTURES, ETC.

KEYNOTES

1. 4" SANITARY LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION. INV. ELEV. @ 193.78 (5.22 BFF).



SANITARY PLUMBING FLOOR PLAN

3/8" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
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4651 Salsbury Road, Suite 420
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

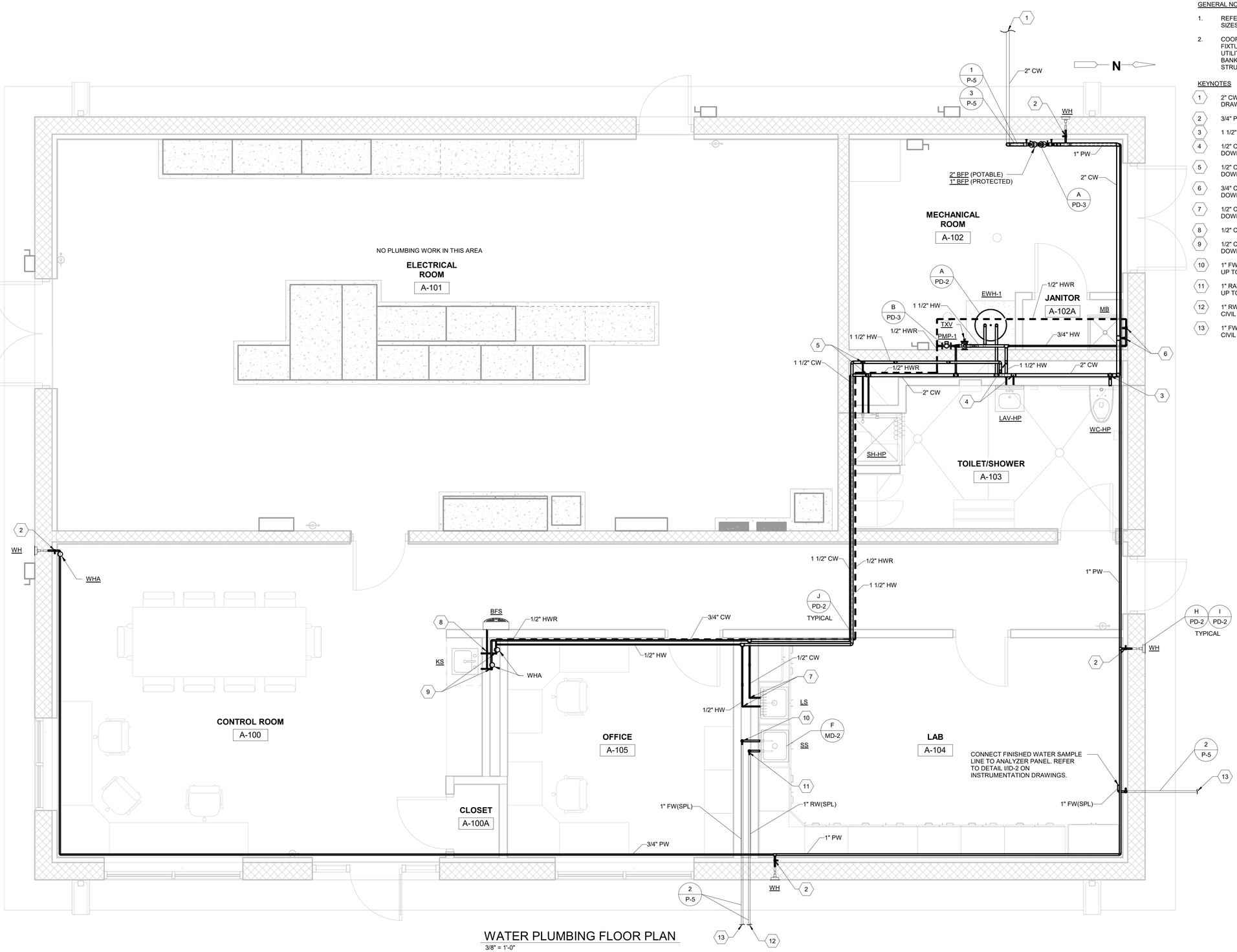
OPERATIONS BUILDING
SANITARY PLUMBING FLOOR PLAN

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT

SHEET NO.
P-2

ISSUED FOR BID



WATER PLUMBING FLOOR PLAN

3/8" = 1'-0"

GENERAL NOTES:

1. REFER TO PLUMBING RISER DIAGRAMS FOR PIPE SIZES TO ALL FIXTURES.
2. COORDINATE LOCATIONS OF ALL PLUMBING PIPING, FIXTURES, AND EQUIPMENT WITH ALL OTHER UTILITIES, PIPING, DUCTWORK, ELECTRICAL DUCT BANKS, CONDUIT, WIRING, LIGHTING, BUILDING STRUCTURES, ETC.

KEYNOTES

1. 2" CW LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. 3/4" PW DOWN TO EXTERIOR WH.
3. 1 1/2" CW DOWN TO WC-HP.
4. 1/2" CW AND 1/2" HW DOWN TO LAV-HP.
5. 1/2" CW AND 1/2" HW DOWN TO SH-HP.
6. 3/4" CW AND 3/4" HW DOWN TO MB.
7. 1/2" CW AND 1/2" HW DOWN TO LS.
8. 1/2" CW DOWN TO BFS.
9. 1/2" CW AND 1/2" HW DOWN TO KS.
10. 1" FW SAMPLE LINE UP TO SS.
11. 1" RAW WATER SAMPLE LINE UP TO SS.
12. 1" RW SAMPLE LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
13. 1" FW SAMPLE LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.

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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
WATER PLUMBING FLOOR PLAN

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT

SHEET NO.
P-3

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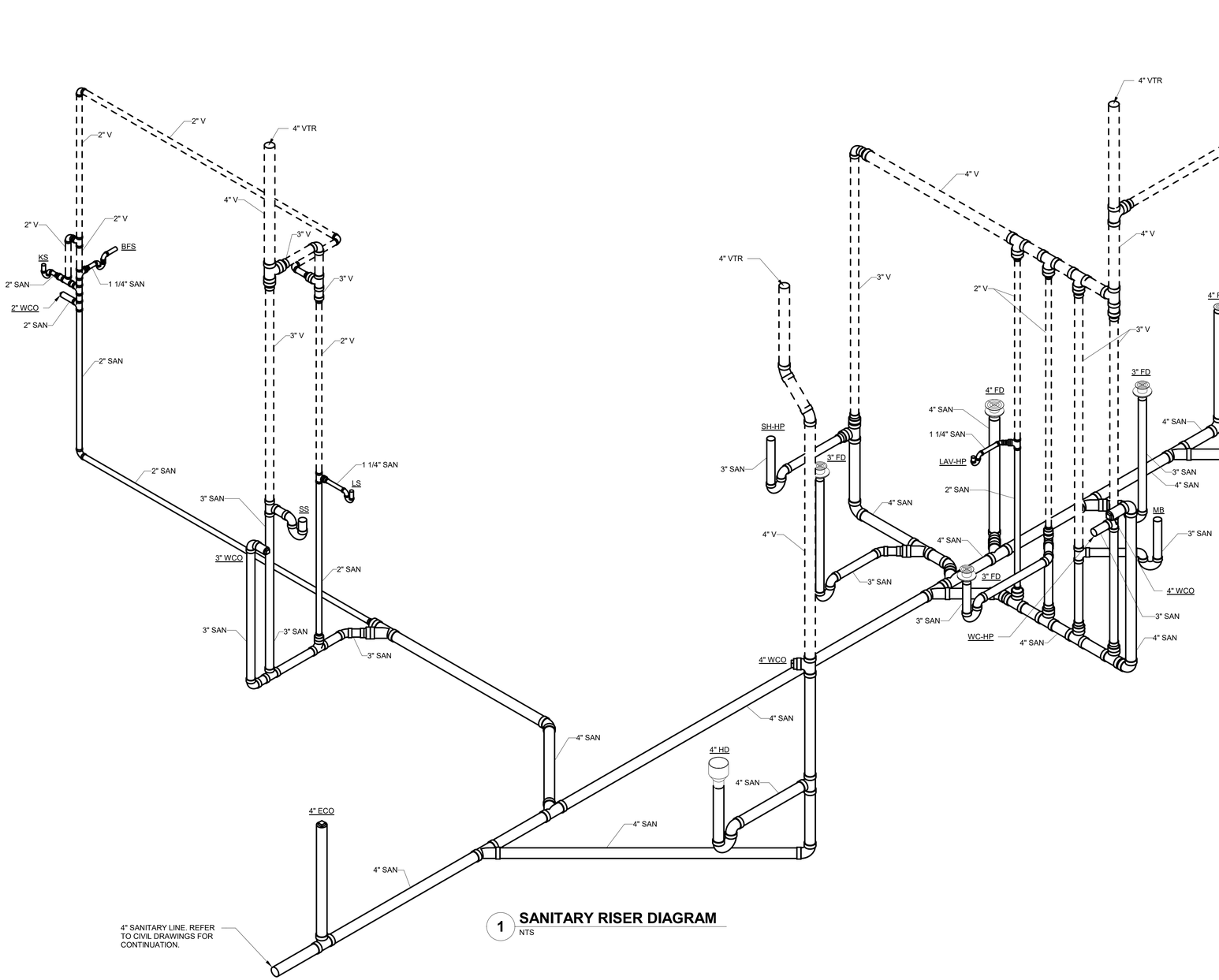

1 SANITARY RISER DIAGRAM
NTS

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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
SANITARY RISER DIAGRAM

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
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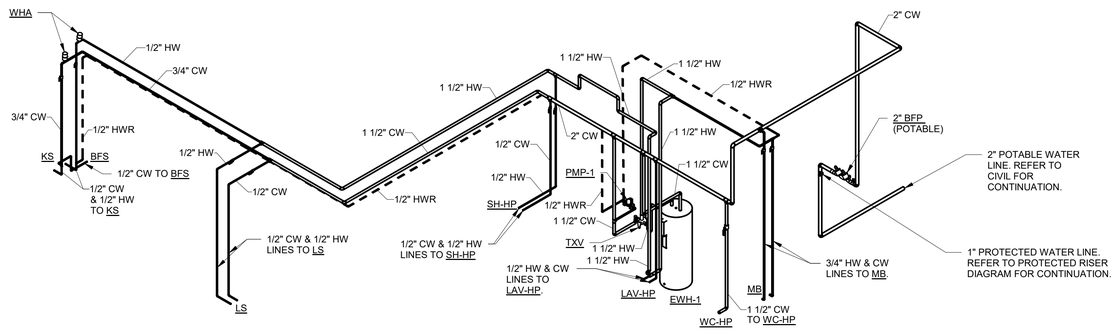
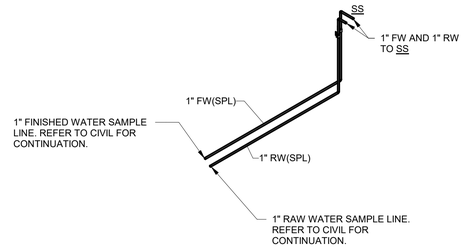
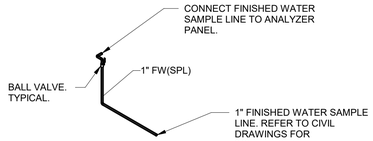
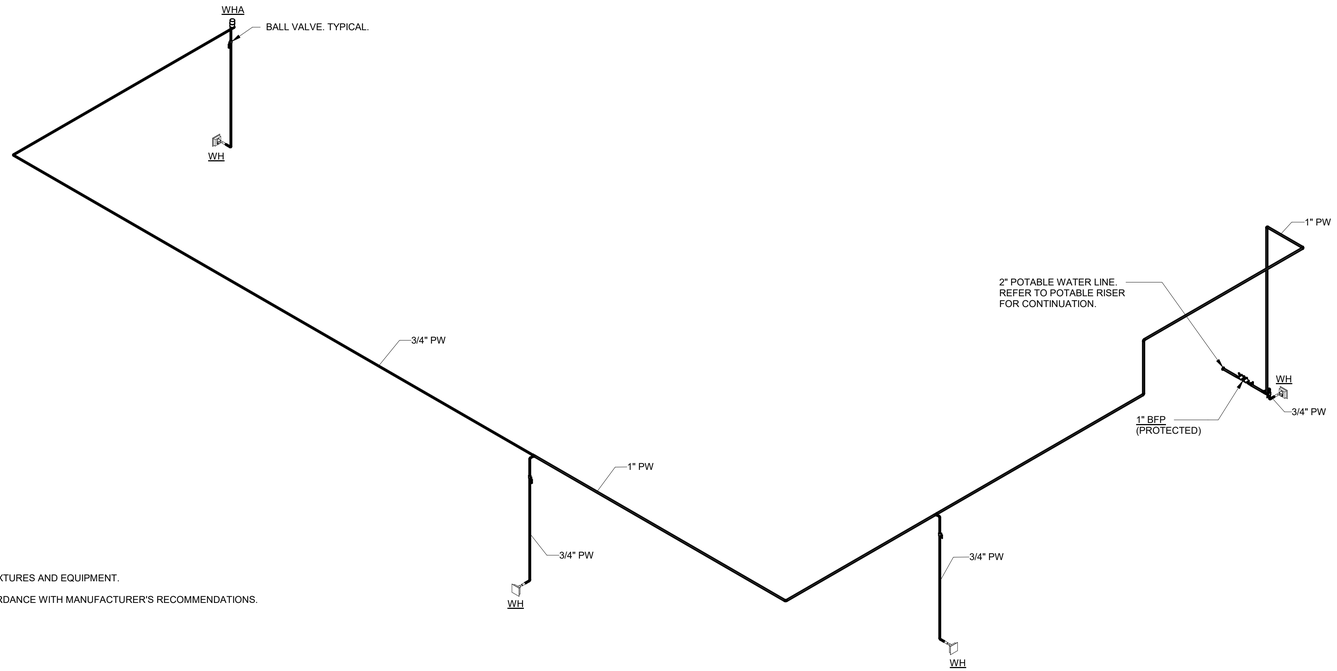


1 POTABLE WATER RISER DIAGRAM
NTS



2 PROCESS WATER RISER DIAGRAM
NTS





NOTES:

1. PROVIDE ISOLATION BALL VALVES ON ALL DROPS TO FIXTURES AND EQUIPMENT.
2. PROVIDE WATER HAMMER ARRESTORS SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3 PROTECTED WATER RISER DIAGRAM
NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
CROSS CHK'D BY: J. GARZIONE
APPROVED BY: P. POULIOT
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
WATER RISER DIAGRAMS

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT
SHEET NO.
P-5

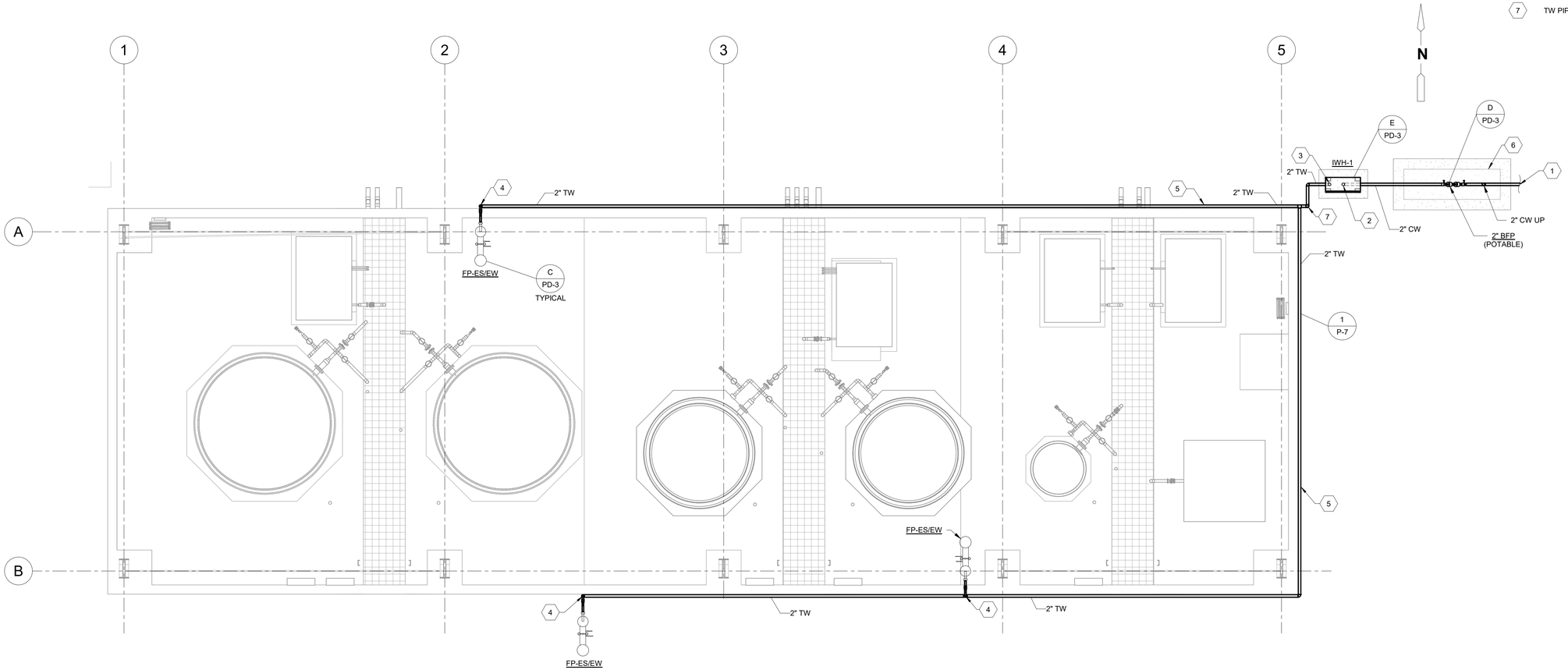
ISSUED FOR BID

GENERAL NOTES:

1. COORDINATE LOCATIONS OF ALL PLUMBING PIPING, FIXTURES, AND EQUIPMENT WITH ALL OTHER UTILITIES, PIPING, DUCTWORK, ELECTRICAL DUCT BANKS, CONDUIT, WIRING, LIGHTING, BUILDING STRUCTURES, ETC.

KEYNOTES

1. 2" CW LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. 2" CW UP TO IWH-1.
3. 2" TW DOWN FROM IWH-1.
4. 1-1/4" TW UP OR DOWN TO FP-ES/EW.
5. PROVIDE HEAT TRACING FOR EXTERIOR PIPING.
6. PROVIDE BACKFLOW PREVENTER WITH INSULATED HEATED ENCLOSURE; HUBBEL MODEL HB SERIES (1500W, 120V/1Ø) OR EQUAL. SIZE ENCLOSURE TO PROVIDE MINIMUM 6" CLEARANCE AROUND ALL ITEMS CONTAINED INSIDE.
7. TW PIPE UP TO BASE OF CONTAINMENT.



PLUMBING FLOOR PLAN

1/4" = 1'-0"

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
PLUMBING FLOOR PLAN

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ001CH.RVT

SHEET NO.
P-6

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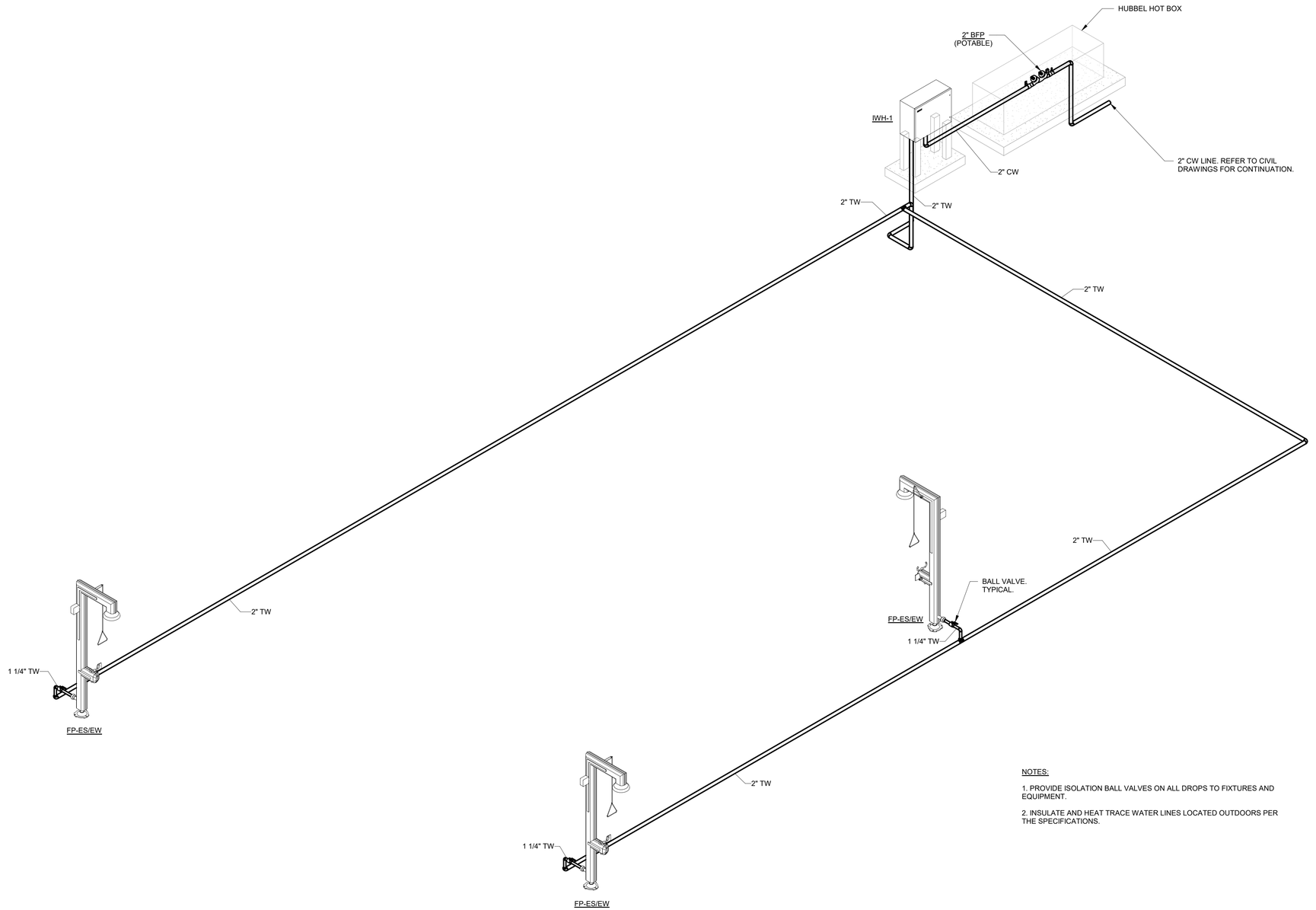

NOTES:

1. PROVIDE ISOLATION BALL VALVES ON ALL DROPS TO FIXTURES AND EQUIPMENT.

2. INSULATE AND HEAT TRACE WATER LINES LOCATED OUTDOORS PER THE SPECIFICATIONS.

1 PLUMBING RISER DIAGRAM
NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. STUART
DRAWN BY: A. BEER
SHEET CHK'D BY: P. POULIOT
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
PLUMBING RISER DIAGRAM

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ001CH.RVT

SHEET NO.
P-7

ISSUED FOR BID

FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	WASTE	HOT WATER	COLD WATER
BFS	BOTTLE FILL STATION	1-1/4"	-	1/2"
ED	EQUIPMENT DRAIN	REFER TO PLANS	-	-
FD	FLOOR DRAIN	REFER TO PLANS	-	-
FP-ES/EW	FREEZE PROTECT EMERGENCY SHOWER/EYEWASH	1-1/2"	1-1/4" (TEPID)	-
HD	HUB DRAIN	REFER TO PLANS	-	-
KS	KITCHEN SINK	1-1/4"	1/2"	1/2"
LAV-HP	LAVATORY, WALL HUNG - HANDICAPPED	1-1/4"	1/2"	1/2"
LS	LAB SINK	1-1/4"	1/2"	1/2"
MB	MOP BASIN	3"	3/4"	3/4"
SH-HP	SHOWER, HANDICAPPED	3"	1/2"	1/2"
SS	SAMPLE SINK	3"	-	-
WC-HP	TOILET, FLUSH VALVE, WALL MOUNTED, WALL OUTLET - HANDICAPPED	3"	-	1-1/2"
WH	WALL HYDRANT	-	-	3/4"

PIPE SCHEDULE

BUILDING/LOCATION	AREA	SYSTEM	DESIGNATION	MATERIAL	SPECIFICATION SECTION
OPERATIONS BUILDING	INTERIOR	POTABLE WATER (COLD)	CW	TYPE K COPPER	221116
OPERATIONS BUILDING	INTERIOR	SAMPLE LINES - FINISHED WATER	FW(SPL)	PVC	REFER TO DIVISION 40
OPERATIONS BUILDING	INTERIOR	POTABLE WATER (HOT)	HW	TYPE K COPPER	221116
OPERATIONS BUILDING	INTERIOR	NON-POTABLE WATER	PW	TYPE K COPPER	221116
OPERATIONS BUILDING	INTERIOR	SAMPLE LINES - RAW WATER	RW(SPL)	PVC	REFER TO DIVISION 40
OPERATIONS BUILDING	INTERIOR	SANITARY	SAN	CAST IRON	221316
OPERATIONS BUILDING	INTERIOR	VENT	V	CAST IRON	221316
CHEMICAL STORAGE AREA	EXTERIOR	POTABLE WATER (COLD)	CW	SCHEDULE 80 PVC	221116
CHEMICAL STORAGE AREA	EXTERIOR	POTABLE WATER (TEPID)	TW	SCHEDULE 80 PVC	221116

TANK TYPE WATER HEATER SCHEDULE

TAG	LOCATION/SERVICE	TANK SIZE	ENTERING WATER TEMP	LEAVING WATER TEMP	NUMBER OF ELEMENTS	INPUT RATING EACH ELEMENT	TOTAL KW	VOLTAGE	CYCLE	PHASE	NOTES
EWH-1	OPERATIONS BUILDING SINKS/SHOWER/MOP BASIN	66 GAL	66°F	140°F	2	1.5 KW	3	460 V	60 HZ	3Ø	1

NOTES:
1. BASIS OF DESIGN IS AO SMITH MODEL DEN-66, RHEEM, STATE, OR EQUAL. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

RECIRCULATION PUMP SCHEDULE

ITEM NO.	SYSTEM SERVED	TYPE	FLUID	FLOW (GPM)	HEAD (FT)	TEMP (F)	% EFF.	HP	RPM	V/P/HZ	OVERALL HEIGHT (IN)	OVERALL LENGTH (IN)	OVERALL WIDTH (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
PMP-1	OPERATIONS BUILDING SINKS/SHOWER/MOP BASIN	INLINE	WATER	1.0	8.8	110	NP	1/40	3250	115/1/60	6-1/2	6	3-3/4	7.0	TACO	006-IQST4	1-3

NOTES:
1. BASIS OF DESIGN IS TACO OR APPROVED EQUAL.
2. PROVIDE PUMP WITH AQUA-STAT CONTROL.
3. PROVIDE PUMP WITH INTEGRAL FLOW CHECK.

TANKLESS WATER HEATER SCHEDULE

TAG	SYSTEM SERVED	TYPE	INPUT POWER (kW)	MINIMUM WATER FLOW (GPM)	AMPS	V/PH/HZ	MODEL	MANUFACTURER	NOTES
IWH-1	CHEMICAL STORAGE AREA EMERGENCY SHOWER/EYEWASH STATIONS	INSTANTANEOUS ELECTRIC WATER HEATER	54	1.5	65	480/3Ø/60	AP054480 EFD N4X	EEMAX	1-2

NOTES:

1. PROVIDE WITH HEATER WITH FREEZE PROOF FREE-STANDING NEMA 4X ENCLOSURE. ELEMENT SHALL BE REPLACEABLE CARTRIDGE INSERT. REFER TO SPECIFICATION SECTION 223300 FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE HEATER WITH 24" STANDING KIT.

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VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

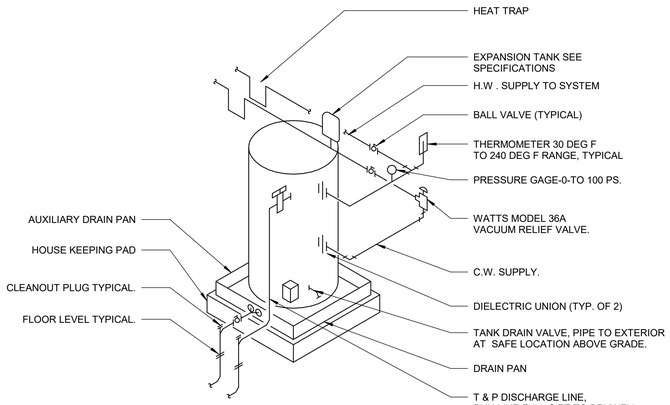
PLUMBING SCHEDULES

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT

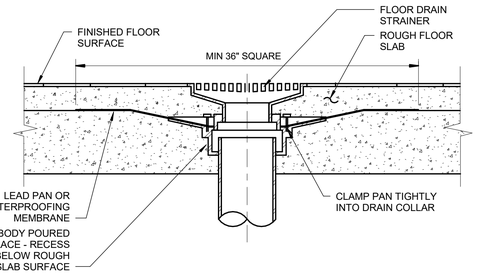
SHEET NO.
PD-1

ISSUED FOR BID



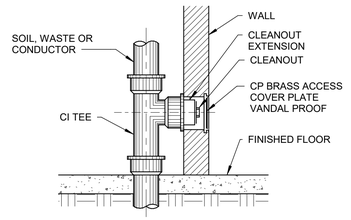
ELECTRIC WATER HEATER (EWH)

A DETAIL
NTS



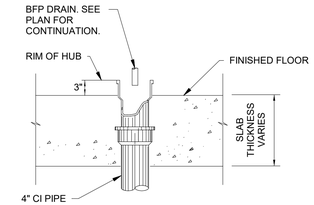
FLOOR DRAIN (FD)

B DETAIL
NTS



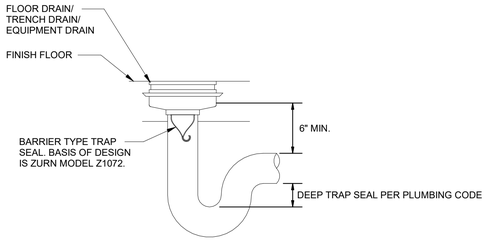
FLUSH WALL CLEANOUT (WCO)

C DETAIL
NTS



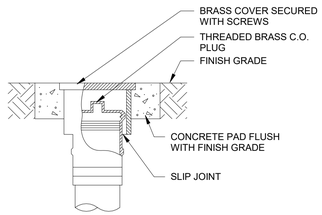
HUB DRAIN (HD)

D DETAIL
NTS



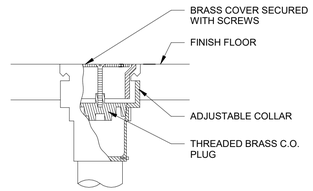
BARRIER-TYPE TRAP SEAL

E DETAIL
NTS



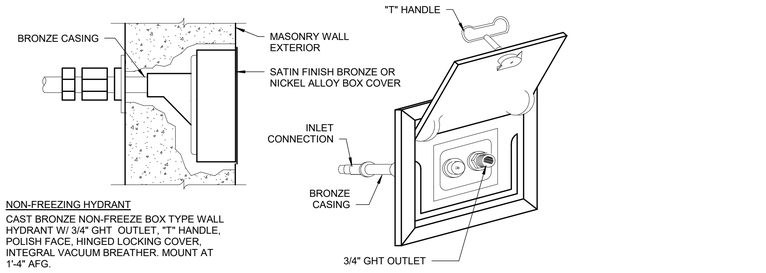
EXTERIOR CLEANOUT (ECO)

F DETAIL
NTS



FLOOR CLEANOUT (FCO)

G DETAIL
NTS



NON-FREEZING HYDRANT

CAST BRONZE NON-FREEZE BOX TYPE WALL HYDRANT W/ 3/4" GHT OUTLET, "T" HANDLE, POLISH FACE, HINGED LOCKING COVER, INTEGRAL VACUUM BREATHER. MOUNT AT 1'-4" AFG.

NON-FREEZE WALL HYDRANT (WH)

H DETAIL
NTS

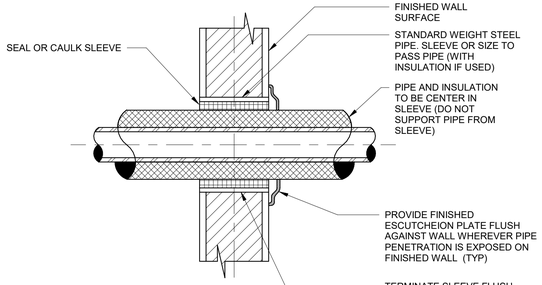
COLORS: BACKGROUND SHALL BE OSHA SAFETY YELLOW, LETTERS SHALL BE RECESSED BLACK

NOTES:
1. FURNISH & INSTALL THE ABOVE SIGN ABOVE ALL (EXISTING & NEW) NON-POTABLE WATER HOSE BIBBS, WALL HYDRANTS, AND WASH HOSE STATIONS. ATTATCH THE SIGN TO THE STRUCTURE, GUARDRAIL OR POST WITH STAINLESS STEEL HARDWARE & MOUNTING BRACKET.

2. FURNISH ONE SIGN & RECEIVE APPROVAL FROM OWNER PRIOR TO ORDERING REMAINDER OF SIGNS.

CAUTION SIGN

I DETAIL
NTS

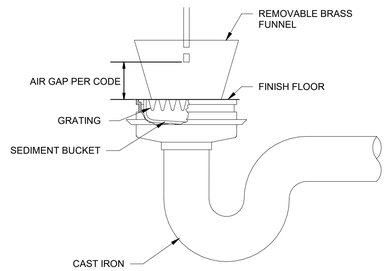


NOTE:

1. PIPE SLEEVE IS TYPICALL TWO PIPE SIZES LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE OR INSULATION.

PIPE SLEEVE THROUGH INTERIOR WALL

J DETAIL
NTS



EQUIPMENT FLOOR DRAIN (ED)

K DETAIL
NTS

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

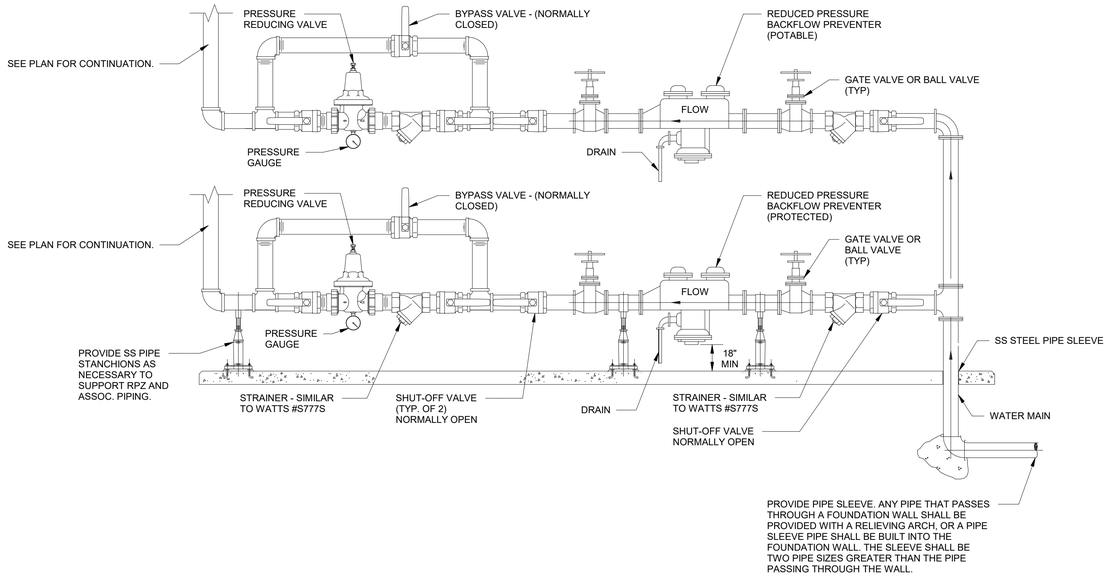
PLUMBING DETAILS I

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT

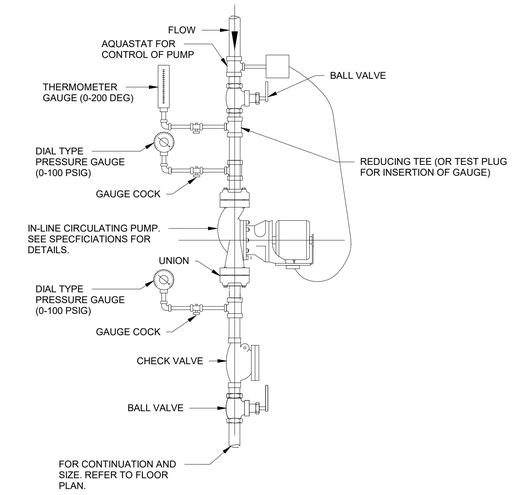
SHEET NO.
PD-2

ISSUED FOR BID



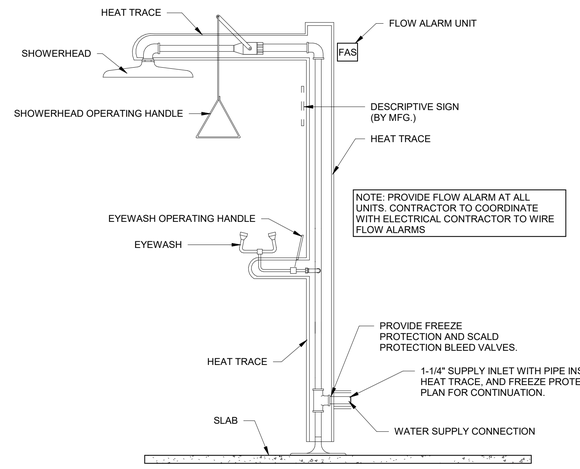
REDUCED PRESSURE BACKFLOW PREVENTER (BFP)

A DETAIL
NTS



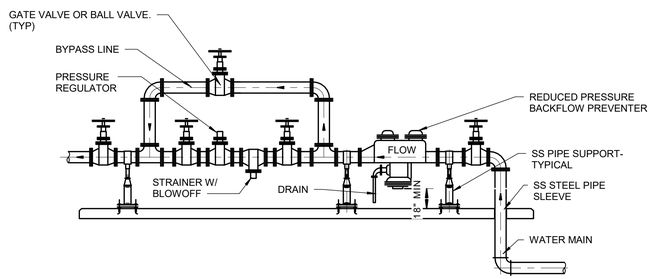
HOT WATER RECIRCULATION PUMP (PMP)

B DETAIL
NTS



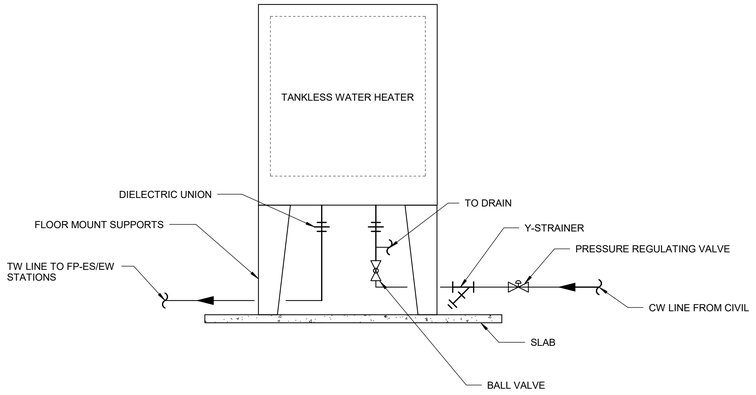
EXTERIOR FREEZE PROOF EMERGENCY SHOWER AND EYEWASH (FP-ES/EW)

C DETAIL
NTS



REDUCED PRESSURE BACKFLOW PREVENTER (BFP)

D DETAIL
NTS



TANKLESS WATER HEATER (IWH)

E DETAIL
NTS

GEORGIA REGISTERED No. 033550 PROFESSIONAL ENGINEER PAUL A. POULIOT

REV. NO.	DATE	DRWN	CHKD	REMARKS

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PLUMBING DETAILS II

PROJECT NO. 20790-289282
FILE NAME: PWZ000OB.RVT

SHEET NO.
PD-3

ISSUED FOR BID

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ONE LINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
S2 CS	—	MEDIUM VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER CS=CONTROL SWITCH
FRAME TRIP	CB	LOW VOLTAGE AIR OR MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED.
SIZE # AMPS TYPE *		COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON–REVERSING UNLESS OTHERWISE NOTED: * FVR – FULL VOLTAGE REVERSING RVNR – REDUCED VOLTAGE NON–REVERSING RVAT – REDUCED VOLTAGE AUTOTRANSFORMER RVSS – REDUCED VOLTAGE SOLID STATE 2S1W – TWO SPEED, ONE WINDING 2S2W – TWO SPEED, TWO WINDING (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
*/		NON–FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE * AMPERE RATING NOTED IF OTHER THAN 30A (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
*/ *	F	FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE. * AMPERE RATING AND FUSE SIZE AS NOTED * AMPERE RATING NOTED IF OTHER THAN 30A FUSE RATING (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
	P 2	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER, 1 POLE UNLESS OTHERWISE NOTED "P" INDICATES WITH PILOT LIGHT "2" INDICATES TWO POLE (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
	—	DRAWOUT TYPE EQUIPMENT OR DEVICE
	—	MEDIUM VOLTAGE CABLE TERMINATION
	—	MEDIUM VOLTAGE AIR INTERRUPTER SWITCH
*	—	MEDIUM VOLTAGE FUSED AIR INTERRUPTER SWITCH * FUSE RATING
	—	MEDIUM VOLTAGE FUSED MOTOR CONTROLLER
XFMR NO. 1 480V Δ KVA 120/208V 3P, 4W	T	TRANSFORMER, RATINGS AND CONNECTIONS AS NOTED. UNLESS OTHERWISE NOTED ON THE SINGLE LINE DIAGRAMS, ALL DRY TYPE TRANSFORMERS SERVICING ADMINISTRATIVE AND LABORATORY SPACES SHALL HAVE A K FACTOR OF 4. ISOLATION TRANSFORMERS SHALL HAVE A K–20 RATING
* A TO 5	—	CURRENT TRANSFORMER * QUANTITY A = PRIMARY AMPERES
* V TO 120	—	POTENTIAL TRANSFORMER * QUANTITY V = PRIMARY VOLTAGE
	G	GENERATOR, RATINGS AND CONNECTIONS AS NOTED
ATS N S 100A	—	AUTOMATIC OR MANUAL TRANSFER SWITCH NO.1 (ATS–1), (MTS–1) "N" INDICATES NORMAL OR PREFERRED SOURCE "S" INDICATES STANDBY OR ALTERNATE SOURCE 100A INDICATES CONTINUOUS CURRENT RATING
*	*	VARIABLE SPEED DRIVE CONTROLLER * D.C. = D.C. DRIVE CONTROLLER SCR = SILICON CONTROLLED RECTIFIER VFD = VARIABLE FREQUENCY DRIVE
#KW	E	UNIT HEATER – ELECTRIC HEATING COIL AND FAN # – RATING
—	U	UNIT HEATER – GAS FIRED, STEAM OR WATER HEATING COIL AND FAN
5	M	MOTOR, NUMERAL INDICATES HORSEPOWER
VS VM *	—	VOLTMETER WITH SWITCH, 3 PHASE
AS AM *	—	AMMETER WITH SWITCH, 3 PHASE

ONE LINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
*	—	METER * WM – WATTMETER WHM – WATTHOUR METER WHDM – WATTHOUR DEMAND METER WHDR – WATTHOUR DEMAND RECORDER PF – POWER FACTOR METER DMU – DIGITAL METERING UNIT TRANSDUCER AX – CURRENT TRANSDUCER WX – WATT TRANSDUCER WHX – WATTHOUR TRANSDUCER
*	*	RELAY, NO. AS INDICATED 25 – SYNCHRONISM CHECK RELAY 27 – UNDERVOLTAGE RELAY 32 – DIRECTIONAL POWER RELAY 38 – BEARING PROTECTIVE DEVICE 40 – LOSS OF EXCITATION RELAY 42 – RUNNING CONTACTOR/PILOT RELAY 46 – REVERSE PHASE/PHASE BALANCE/CURRENT RELAY 47 – PHASE SEQUENCE VOLTAGE RELAY 49 – MACHINE OR TRANSFORMER THERMAL RELAY 50/51 – INSTANTANEOUS/TIME OVERCURRENT RELAY 50G – INSTANTANEOUS GROUND 51 – TIME OVERCURRENT RELAY 51G – TIME OVERCURRENT RELAY, GROUNDING RESISTOR TYPE 51N – TIME OVERCURRENT RELAY, RESIDUAL TYPE 51V – TIME OVERCURRENT RELAY WITH VOLTAGE RESTRAINT 51X – AUXILIARY RELAY (TRIPS CB AND ALARMS) 59 – OVERVOLTAGE RELAY 60 – NEGATIVE SEQUENCE VOLTAGE RELAY 62 – TIME DELAY RELAY 63 – OVERPRESSURE RELAY 64 – GENERATOR FIELD GROUND RELAY 67 – AC DIRECTIONAL OVERCURRENT RELAY 74 – ALARM LATCHING RELAY 83 – AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY 86 – LOCKING–OUT RELAY 87 – DIFFERENTIAL PROTECTIVE RELAY B – SUFFIX INDICATES "BUS" G – SUFFIX INDICATES "GENERATOR" GF – GROUND FAULT ST – SHUNT TRIP T – SUFFIX INDICATES "TRANSFORMER" X – SUFFIX INDICATES "AUXILIARY"
*	—	SPECIAL CAPACITOR * SC – SURGE CAPACITOR PF – POWER FACTOR CORRECTION CAPACITOR
*	—	TUNED POWER FACTOR CORRECTION CAPACITOR
	—	PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY CLOSED
	—	PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY OPEN
	ES	EMERGENCY STOP PUSHBUTTON WITH RED MUSHROOM HEAD OPERATOR (MAINTAINED CONTACT)
STOP START	PBL	START–STOP PUSHBUTTON CONTROL STATION (MOMENTARY CONTACT) WITH LOCKOUT DEVICE ON STOP
	PBM	START–STOP PUSHBUTTON CONTROL STATION, MAINTAINED CONTACT WITH LOCKOUT DEVICE ON STOP
OFF ON	S/S	OFF/ON SELECTOR SWITCH
L R (XO) (OX)	LR	LOCAL/REMOTE SELECTOR SWITCH
A B C* (XOO) (OXO) (OOX)	*	3 POSITION SELECTOR SWITCH, MAINTAINED CONTACT O–OPEN X–CLOSED POSITION | TOP CONTACT | MIDDLE CONTACT | BOTTOM CONTACT A | X | O | O B | O | X | O C | O | O | X NAMEPLATE (A/B/C) HOA – HAND/OFF/AUTO HOR – HAND/OFF/REMOTE LOR – LOCAL/OFF/REMOTE RSL – RAISE/STOP/LOWER TOA – TEST/OFF/AUTO

GD/VF #	GD/VF #	GAS DETECTOR / VENTILATION FAILURE ALARM
		# INDICATES TYPE OF UNIT
		1=MASTER, 2=REMOTE

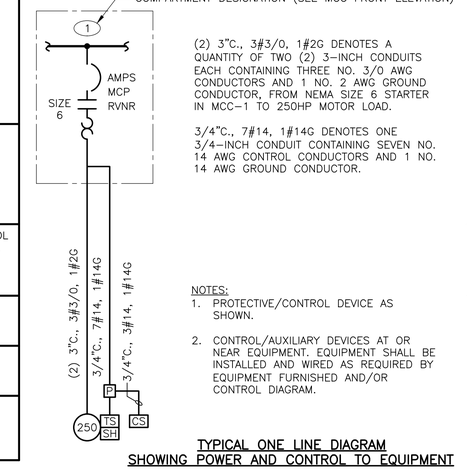
42 #	—	MOTOR STARTER COIL, NUMBER AS INDICATED TO DENOTE INTERLOCKING ONLY
CR #	—	CONTROL RELAY COIL, NUMBER AS INDICATED

ONE LINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
*	—	PILOT LIGHT, COLOR AS NOTED * R – RED G – GREEN B – BLUE W – WHITE A – AMBER
*	—	PILOT LIGHT, PUSH–TO–TEST TYPE, COLOR AS NOTED ABOVE.
* # RANGE SETPOINT		TIME DELAY RELAY RANGE AS NOTED SETPOINT AS NOTED # NUMBER AS INDICATED * TDE – TIME DELAY AFTER ENERGIZATION ON DELAY TDD – TIME DELAY AFTER DE–ENERGIZATION OFF DELAY
* NOTC		NOTC– NORMALLY OPEN, TIMED CLOSING WHEN ENERGIZED
NCTO		NCTO– NORMALLY CLOSED, TIMED OPENING WHEN ENERGIZED
NOTO		NOTO– NORMALLY OPEN, TIMED OPENING WHEN DE–ENERGIZED
NCTC		NCTC– NORMALLY CLOSED, TIMED CLOSING WHEN DE–ENERGIZED
	* – ##	FIELD INSTRUMENT, TAG NO. AS INDICATED * INDICATES INSTRUMENT TYPE DEFINED ON LOOP SHEETS OR P & ID ## INDICATES LOOP NO.
	LS OR ■	LIQUID LEVEL (FLOAT) SWITCH
		NORMALLY OPEN, CLOSES ON RISING LEVEL
		NORMALLY CLOSED, OPENS ON RISING LEVEL
	PS OR ■	PRESSURE OR VACUUM SWITCH
		NORMALLY OPEN, CLOSES ON RISING PRESSURE
		NORMALLY OPEN, CLOSES ON DROPPING PRESSURE
		NORMALLY CLOSED, OPENS ON RISING PRESSURE
		NORMALLY CLOSED, OPENS ON DROPPING PRESSURE
	TS OR T OR ■	TEMPERATURE SWITCH OR THERMOSTAT
		NORMALLY OPEN, CLOSES ON RISING TEMPERATURE
		NORMALLY OPEN, CLOSES ON DROPPING TEMPERATURE
		NORMALLY CLOSED, OPENS ON RISING TEMPERATURE
		NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE
	FS OR ■	FLOW SWITCH (AIR, WATER, ETC.)
		NORMALLY OPEN, CLOSES ON INCREASED FLOW
		NORMALLY CLOSED, OPENS ON INCREASED FLOW
	ZS OR ■	POSITION (LIMIT) SWITCH
		NORMALLY OPEN
		NORMALLY OPEN – HELD CLOSED
		NORMALLY CLOSED
		NORMALLY CLOSED – HELD OPEN
	WS OR ■	TORQUE SWITCH
		NORMALLY OPEN, CLOSES ON HIGH TORQUE
		NORMALLY CLOSED, OPENS ON HIGH TORQUE
#	—	UTILIZED IN CONJUNCTION WITH OTHER CONTROL SCHEMATIC SYMBOLS TO DEPICT THE PHYSICAL LOCATION OF THE DEVICE # REPRESENTS LOCATION SEE LOCATION LEGEND ON DRAWING
	—	CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED
	—	CONDUCTORS ELECTRICALLY CONNECTED
	S	SOLENOID VALVE

ONE LINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
LA	—	LIGHTNING ARRESTER
		GROUND OR GROUND ROD
30A	—	FUSE, AMPERE RATING AS NOTED
	HTR	STRIP HEATER OR HEATING ELEMENT
	—	INDUCTOR
TG	TG	TACHOMETER GENERATOR
	—	CONTACT, NORMALLY OPEN (NO)
	—	CONTACT, NORMALLY CLOSED (NC)
	—	OVERLOAD RELAY HEATER
	—	* K = KEY INTERLOCK E = ELECTRICAL INTERLOCK
TB	—	TERMINAL OR TEST BLOCK
RTD	—	RESISTANCE TEMPERATURE DETECTOR
VE OR VE	—	VIBRATION DETECTOR
DM	DM	DAMPER MOTOR
ETM	—	ELAPSED TIME METER
M	M	MOTOR OPERATED VALVE OR GATE
	—	INDICATES LIMITS OF ELECTRICAL EQUIPMENT OR WIRING ENCLOSURE

EXISTING WORK | NEW WORK | FUTURE EXPANSION

EXISTING, NEW OR FUTURE CONDITION DESIGNATION



(2) 3"C., 3#3/0, 1#2G DENOTES A QUANTITY OF TWO (2) 3–INCH CONDUITS EACH CONTAINING THREE NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG GROUND CONDUCTOR, FROM NEMA SIZE 6 STARTER IN MCC–1 TO 250HP MOTOR LOAD.

3/4"C., 7#14, 1#14G DENOTES ONE 3/4–INCH CONDUIT CONTAINING SEVEN NO. 14 AWG CONTROL CONDUCTORS AND 1 NO. 14 AWG GROUND CONDUCTOR.

NOTES:
1. PROTECTIVE/CONTROL DEVICE AS SHOWN.
2. CONTROL/AUXILIARY DEVICES AT OR NEAR EQUIPMENT. EQUIPMENT SHALL BE INSTALLED AND WIRED AS REQUIRED BY EQUIPMENT FURNISHED AND/OR CONTROL DIAGRAM.

TYPICAL ONE LINE DIAGRAM SHOWING POWER AND CONTROL TO EQUIPMENT

NOTES:

1. IN GENERAL CONDUIT ROUTING FOR EQUIPMENT AND DEVICES IS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS WHICH SHALL INCLUDE CONDUITS SHOWN ON ONE–LINE AND RISER DIAGRAMS AND HOME–RUNS SHOWN ON PLAN DRAWINGS. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
2. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUITS REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. SWITCHGEAR AND MOTOR CONTROL CENTER COMPARTMENT DESIGNATIONS AS INDICATED BELOW:
   - BLANK: NOT INTENDED FOR USE. PLATE ONLY
   - SPACE: EQUIPPED WITH REQUIRED BUS AND HARDWARE FOR THE FUTURE ADDITION OF BREAKERS AND/OR STARTERS WITHIN THE SIZE AND RANGE SHOWN
   - SPARE: CONTAINS A COMPLETELY INSTALLED BREAKER AND/OR STARTER OF SIZE AND TYPE INDICATED FOR FUTURE USE.
4. INTERPRETATION OF ELECTRICAL DRAWINGS: CIRCUIT IDENTIFICATION, ROUTING, AND SIZES OF CONDUITS AND WIRES ARE SHOWN ON THE FOLLOWING DRAWINGS:

A. ONE LINE POWER DIAGRAMS: POWER, CONTROL AND SIGNAL WIRING REQUIREMENTS FOR ELECTRICAL DISTRIBUTION EQUIPMENT AND UTILIZATION EQUIPMENT POWERED FROM SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND MAJOR POWER DISTRIBUTION PANELBOARDS ARE TYPICALLY SHOWN ON THE ONE LINE DIAGRAMS. THE PARAMETERS IDENTIFIED ON THE ONE LINE DIAGRAMS ARE: CIRCUIT IDENTIFICATION, CIRCUIT ORIGIN AND DESTINATION, CONDUIT SIZE, WIRE SIZE AND QUANTITY FOR COMPLETE CIRCUIT LENGTH, AND AUXILIARY DEVICES ASSOCIATED WITH THE CONTROL/PROTECTION OF THE POWERED EQUIPMENT, AND SIZE OF THE GROUNDING ELECTRODE CONDUCTORS.

B. INSTRUMENTATION AND CONTROL RISER DIAGRAMS: POWER, CONTROL, SIGNAL AND DATA HIGHWAY WIRING REQUIREMENTS FOR INSTRUMENTS AND CONTROL DEVICES CONTROLLED/MONITORED FROM INSTRUMENTATION AND CONTROL PANELS SUCH AS RTUS, PLCS, TERMINAL CABINETS, AND REMOTE I/O PANELS ARE TYPICALLY SHOWN ON THE INSTRUMENTATION AND CONTROL ONE LINE DIAGRAMS. THE PARAMETERS IDENTIFIED ON THE ONE LINE DIAGRAMS ARE: CIRCUIT IDENTIFICATION, CIRCUIT ORIGIN AND DESTINATION, CONDUIT SIZE, WIRE SIZE, QUANTITY AND TYPE FOR COMPLETE CIRCUIT LENGTH, AND AUXILIARY DEVICES ASSOCIATED WITH THE CONTROL/PROTECTION OF THE POWERED EQUIPMENT.

C. FLOOR PLANS: FOR DETERMINING THE LENGTH OF CIRCUITS LOCATED WITHIN STRUCTURES, FLOOR PLANS SHOW THE LOCATION OF ELECTRICAL DISTRIBUTION EQUIPMENT, CONTROL PANELS, UTILIZATION EQUIPMENT, INSTRUMENTS, ANCILLARY EQUIPMENT AND DEVICES AND THE ANTICIPATED PENETRATION LOCATIONS WHERE CONDUITS EXIT/ENTER THE STRUCTURE. HOMERUNS MAY ALSO BE SHOWN FROM MISCELLANEOUS EQUIPMENT NOT SHOWN ON A ONE LINE OR RISER DIAGRAM.

D. SITE PLANS: FOR DETERMINING THE LENGTH OF CIRCUITS EXTERIOR TO STRUCTURES AND TO IDENTIFY THE SPECIFIC REQUIREMENTS OF THE UNDERGROUND CONDUITS OR DUCT BANKS, SITE PLANS SHOW THE GENERAL ROUTING OF UNDERGROUND CONDUITS AND DUCT BANKS WITH SECTIONS INDICATING THE CONDUIT SIZE, ARRANGEMENT AND CIRCUIT ROUTING.

E. NOTE THAT CONDUIT SIZE WITHIN THE STRUCTURE IS INDICATED ON ONE–LINE DIAGRAM AND UNDERGROUND SIZE IS INDICATED ON DUCT BANK SECTIONS.

GENERAL NOTE
THIS IS A STANDARD LEGEND. SOME SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7199
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL LEGEND I

PROJECT NO. 20790–289282
FILE NAME: E001NFLG.DWG
SHEET NO. E-1

ISSUED FOR BID

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SYMBOL	DESCRIPTION
A 3 b	LIGHTING FIXTURE "A" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) "b" – CONTROLLED BY SWITCH "b" "3" – CIRCUIT NUMBER
A 3 b	LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE
A 3 b	WALL MOUNTED TYPE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE
A 3 OR A 3	CROSS HATCH INDICATES LIGHTING FIXTURE THAT IS UNSWITCHED AND SHALL REMAIN ON AT ALL TIMES. NOTATIONS SAME AS ABOVE.
A 3 b OR A 3 b	SHADED AREA INDICATES LIGHTING FIXTURE THAT IS EQUIPPED WITH EMERGENCY BACKUP POWER SOURCE. NOTATIONS SAME AS ABOVE.
A 3	POLE MOUNTED AREA TYPE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE
A 3	POLE MOUNTED ROADWAY TYPE LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE
EM 3 (*)	EMERGENCY LIGHTING BATTERY UNIT WITH TWO LAMP HEADS "EM" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) "3" – SUPERVISORY CIRCUIT * – FIXTURE TAG #
R-2 BU-1(*)	REMOTE EMERGENCY ADJUSTABLE WALL LIGHTING FIXTURE WITH TWO LAMP HEADS "R-2" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) * – HOME RUN TO BATTERY UNIT INDICATED. CONDUIT SHALL BE 3/4" AND CONTAIN (2) NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND (1) NO. 12 AWG GROUND CONDUCTOR UNLESS OTHERWISE INDICATED.
A 3	COMBINATION BATTERY UNIT AND EXIT SIGN. FILLED QUADRANT REPRESENTS FACE SIDE OF SIGN.
A 3	CEILING MOUNTED EXIT SIGN, NOTATIONS SAME AS ABOVE. WHEN USED, ARROW INDICATES DIRECTION OF EGRESS. FILLED QUADRANT REPRESENTS FACE SIDE OF SIGN. (DOUBLE FACE DOUBLE CHEVRONS SHOWN)
A 3	WALL MOUNTED EXIT SIGN, NOTATIONS SAME AS ABOVE. WHEN USED, ARROW INDICATES DIRECTION OF EGRESS. FILLED QUADRANT REPRESENTS FACE SIDE OF SIGN.
RH-3 E 3 BU-1(*)	REMOTE EMERGENCY CEILING LIGHTING FIXTURE. "RH-3" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) "3" – SUPERVISORY CIRCUIT * – HOME RUN TO BATTERY UNIT INDICATED. CONDUIT SHALL BE 3/4" AND CONTAIN 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR UNLESS OTHERWISE INDICATED.
	HOME RUN TO DESIGNATED EQUIPMENT. BRANCH CIRCUIT CONDUIT WITH 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR UNLESS OTHERWISE NOTED. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING.
	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
	'X' INDICATES EXPLOSION PROOF CONDUIT SEAL FITTING.
	CONCRETE ENCASED DUCTBANK. WIDTH VARIES, SEE DUCTBANK SECTION/DETAILS FOR REQUIREMENTS AND WIDTH
	CONDUIT STUBBED OUT AND CAPPED
(2) 3"c., 3#3/0, 1#2G	DENOTES A QUANTITY OF TWO (2) 3–INCH CONDUITS EACH CONTAINING THREE NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG GROUND CONDUCTOR.
2–2/C#16 SH	DENOTES A QUANTITY OF TWO INSTRUMENT CABLES. EACH CABLE TO CONSIST OF TWO NO. 16 AWG CONDUCTORS TWISTED TOGETHER AND COVERED WITH A METALLIC SHIELD AND AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.
2–3/C#16 SH	SAME AS ABOVE EXCEPT CABLE TO CONSIST OF THREE NO. 16 AWG CONDUCTORS TWISTED, SHIELDED AND COVERED WITH AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.
(3) 4"C.	THREE 4–INCH CONDUITS
	FLEXIBLE METAL CONDUIT "WHIP" (3/4"C., 2#12, 1#12G UNLESS OTHERWISE NOTED) FOR LIQUID TIGHT MOTOR CONNECTIONS
	'X' INDICATES CONDUIT SEAL FITTING IN OTHER THAN CODE REQUIRED LOCATIONS.
⊠	INDICATES MOTOR STARTER AND/OR MOTOR CONTROL EQUIPMENT WITHIN THE ENCLOSURE.

SYMBOL	DESCRIPTION
$a	SINGLE POLE SWITCH "a" INDICATES FIXTURES CONTROLLED.
$a 2	DOUBLE POLE SWITCH "a" INDICATES FIXTURES CONTROLLED.
$c 3	THREE WAY SWITCH "c" INDICATES FIXTURES CONTROLLED.
$a 4	FOUR WAY SWITCH "a" INDICATES FIXTURES CONTROLLED.
$a D	DIMMER SWITCH "a" INDICATES FIXTURES CONTROLLED
$OS	SINGLE POLE SWITCH "OS" INDICATES A PASSIVE INFRARED OCCUPANCY SENSOR
$OS 2	DOUBLE POLE SWITCH "OS" INDICATES PROGRAMMABLE OCCUPANCY SENSOR CAPABLE OF INBOARD/OUTBOARD SWITCHING
$DT	SINGLE POLE SWITCH "DT" INDICATES DUAL TECHNOLOGY PROGRAMMABLE OCCUPANCY SENSOR CAPABLE OF SENSING MOTION AND SOUND
C 3	LIGHTING CONTACTOR WITH NUMBER OF POLES AS INDICATED
TM	TIME SWITCH
	PUSH BUTTON STATION
TYPE A	INDICATES ALL LIGHTING FIXTURES WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE TYPE "A" UNLESS OTHERWISE NOTED. SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
	LIGHTING PANELBOARD (LP–#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS
	POWER PANELBOARD (PP–#) OR DISTRIBUTION PANELBOARD (DP–#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS
	LIGHTING CONTACTOR PANELBOARD (LCP–#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS
* 4	DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W * GFCI – GROUND FAULT CIRCUIT INTERRUPTER TYPE WP – WEATHERPROOF WITH WHILE–IN–USE–COVER XP – EXPLOSION PROOF T – TRANSIENT VOLTAGE SURGE SUPPRESSOR IC – ISOLATED GROUND 4 – CIRCUIT NUMBER
* 4	DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W MOUNTED ABOVE COUNTER–TOP OR 42" AFF * NOTATIONS SAME AS ABOVE
* 60 3 4W	SPECIAL PURPOSE RECEPTACLE * – VOLT RATING "3" – NUMBER OF POLES "60" – AMPERE RATING "4W" – 4 WIRES IN ADDITION TO GROUND
	MULTI–OUTLET ASSEMBLY, SYMBOL DENOTES RECEPTACLE TYPE
	FLUSH FLOOR OUTLET BOX WITH TYPE OUTLET INDICATED
	UNDER FLOOR DUCT SYSTEM WITH TYPE OUTLETS INDICATED
	THREE CELL UNDER FLOOR DUCT SYSTEM JUNCTION BOX
J OR J	JUNCTION BOX
P	PULL BOX
TC	TERMINAL CABINET
OS	OCCUPANCY SENSOR
PC	PHOTOCELL
ESA	EMERGENCY EYEWASH/SHOWER ALARM STATION WITH FLOW SWITCH(ES)
	INDICATED EQUIPMENT AND MATERIALS TO BE DEMOLISHED
DUST	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 12 CONSTRUCTION (OR GASKETED AND SUITABLE FOR USE IN A WET LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
DAMP OR WET	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4X CONSTRUCTION (OR GASKETED AND SUITABLE FOR USE IN A WET LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
CORROSIVE	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4X CONSTRUCTION (OR CORROSION RESISTANT CONSTRUCTION SUITABLE FOR USE IN A WET LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
CLASS I, DIV. 1 GROUP D	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL CONFORM TO N.E.C. REQUIREMENTS FOR THE HAZARDOUS AREA CLASSIFICATION SHOWN.

SYMBOL	DESCRIPTION
	GROUND SYSTEM GRID OR LOOP, 36" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
	EXOTHERMIC WELD CONNECTION
	3/4" x 10'–0" GROUND ROD. UNLESS SPECIFIED OTHERWISE.
	GROUND ROD TEST WELL STATION (SEE DETAIL SHEET FOR REQUIREMENTS)
	COMMUNICATION SYSTEMS
K	TELEPHONE OUTLET FOR DESK TYPE HANDSET K = KEY SYSTEM
K	TELEPHONE OUTLET FOR WALL TYPE HANDSET (MOUNT UP 4'–6") K = KEY SYSTEM
	PAGE/PARTY TELEPHONE OUTLET FOR DESK TYPE HANDSET
	PAGE/PARTY TELEPHONE OUTLET FOR WALL TYPE HANDSET, MOUNT UP 4'–6"
S H W	PAGING SPEAKER, WALL MOUNTED H = HORN TYPE W = WIDE ANGLE TYPE
S W	PAGING SPEAKER, WALL MOUNTED, BI–DIRECTIONAL, HORN TYPE W = WIDE ANGLE TYPE
S	PAGING SPEAKER, FLUSH MOUNTED CEILING TYPE
S	PAGING SPEAKER, SURFACE MOUNTED CEILING TYPE
VC	REMOTE WALL MOUNTED VOLUME CONTROL FOR CEILING SPEAKER, MOUNT UP 5'–0"
A	PAGING SPEAKER AMPLIFIER ASSEMBLY
TM	TELEPHONE CABINET OR BACKBOARD AS NOTED
P OR C	"C" – CAMERA SYSTEM WORKSTATION DATA OUTLET (CAT6 RJ–45 JACK) "P" – PROCESS COMPUTER SYSTEM (CAT6 RJ–45 JACK)

GD/VF #	GAS DETECTOR/VENTILATION FAILURE ALARM,
	# INDICATES TYPE OF UNIT.
	1 = MASTER, 2 = REMOTE

GB	GAS DETECTION/VENTILATION FAILURE WEATHERPROOF DUAL–LITE BEACON MOUNT TOP OF DEVICE UP 6'–8" A.F.F.
15 G	GAS DETECTION/VENTILATION FAILURE HORN/STROBE MOUNT TOP OF DEVICE UP 6'–8" A.F.F.
G	GAS DETECTION/VENTILATION FAILURE HORN, MOUNT TOP OF DEVICE UP 6'–8" A.F.F.
G	GAS DETECTION/VENTILATION FAILURE STROBE, MOUNT TOP OF DEVICE UP 6'–8" A.F.F.
	SECURITY SYSTEMS
SACP	SECURITY ALARM CONTROL PANEL
DS	SECURITY ALARM DOOR SWITCH
M	MASTER CONTROL STATION – VIDEO/INTERCOM/ACCESS CONTROL FOR GATE AND ELECTRIFIED DOORS
R	VIDEO/INTERCOM/CARD READER
WS	SECURITY ALARM WINDOW SWITCH
	SECURITY ALARM MOTION DETECTOR
CCTV	CLOSED CIRCUIT TV CAMERA
PTZ	PAN, TILT, ZOOM CAMERA LENS CONTROLS
GB	GLASS BREAK DETECTOR
	FIRE ALARM SYSTEMS
H 200 R	FIRE ALARM HEAT DETECTOR 135 FIXED TEMPERATURE UNLESS OTHERWISE NOTED. "200" – 200 FIXED TEMPERATURE "R" – FIXED TEMPERATURE RATE–OF–RISE TYPE
I	FIRE ALARM SMOKE DETECTOR PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED. "I" – IONIZATION TYPE.
D	FIRE ALARM DUCT SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FV	FIRE ALARM VENTILATION PANEL WITH GRAPHIC PANEL
FA	REMOTE FIRE ALARM ANNUNCIATOR PANEL

SYMBOL	DESCRIPTION
F	FIRE ALARM MASTER BOX
F	FIRE ALARM HORN, MOUNT UP 7'–6"
15 F	FIRE ALARM STROBE, MOUNT UP 6'–8" 15 = CANDELA RATING
15 F	FIRE ALARM HORN AND STROBE LIGHT COMBINATION, MOUNT UP 6'–8" 15 = CANDELA RATING
F	FIRE ALARM MANUAL PULL STATION, MOUNT UP 4'–0"
VSS	SPRINKLER VALVE SUPERVISORY SWITCH
SFS	SPRINKLER FLOW ALARM SWITCH
F	FIRE ALARM BELL
FB	WEATHERPROOF HI–INTENSITY FIRE ALARM STROBE LIGHT WITH HORN
PIR	PASSIVE INFRARED DETECTOR
R	SMOKE BEAM DETECTOR (RECEIVER)
T	SMOKE BEAM DETECTOR (TRANSMITTER)
	FIRE ALARM SMOKE DETECTOR REMOTE INDICATOR AND TEST SWITCH

ABBREVIATIONS	
A	AMPS
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AIC	AMPERE INTERRUPTING CAPACITY
AMP	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CGD	COMBUSTIBLE GAS DETECTOR
CKT	CIRCUIT
CHH	COMMUNICATIONS HANDHOLE
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CS	CONTROL SWITCH/CONTROL STATION
CT	CURRENT TRANSFORMER
CU	COPPER
CWS	CONDUIT WALL SEAL
DC	DIRECT CURRENT
DIA	DIAMETER
DMU	DIGITAL METERING UNIT
DN	DOWN
EC	EMPTY CONDUIT
ELEC	ELECTRICAL
ELEV	ELEVATION
EM	EMERGENCY
ENCL	ENCLOSURE OR ENCLOSED

ABBREVIATIONS (CONTINUED)	
EQUIP	EQUIPMENT
ES	EMERGENCY STOP
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FO	FIBER OPTIC
FU	FUSE
GCP	GENERATOR CONTROL PANEL
GEN	GENERATOR
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HACR	HEATING & AIR CONDITIONING RATED
HH	HANDHOLE
HT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HZ	HERTZ
ID	IDENTIFICATION
INSTR	INSTRUMENT
K	KILO (PREFIX)
kcmil	1000 CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LA	LIGHTNING ARRESTER
LTG	LIGHTING
LP	LIGHTING PANEL
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OL	OVERLOAD
PB	PULL BOX
PCP	PUMP CONTROL PANEL
PH	PHASE
PHH	POWER HANDHOLE
PMH	POWER MANHOLE
PNL	PANEL OR PANELBOARD
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RECPT	RECEPTACLE
REQD	REQUIRED
QTY	QUANTITY
SA	SURGE ARRESTER
SEC	SECONDS OR SECONDARY
SH	SHIELDED OR SPACE HEATER
SHH	SIGNAL HANDHOLE
SPD	SURGE PROTECTIVE DEVICE
SS	STAINLESS STEEL
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME TO CLOSE OR TRAY CABLE
TEL	TELEPHONE
TO	TIME TO OPEN
TS	TWISTED SHIELDED OR THERMAL SWITCH
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIDTH, WITH, WIRE
WP	WEATHERPROOF
XP	EXPLOSION PROOF
XFMR	TRANSFORMER

A / E–4 — SHEET NO. WHERE DETAIL IS DRAWN

SYMBOL WHERE THERE IS A DETAIL

DETAIL A — 1/4" = 1'–0" — E–3 — SHEET NO. WHERE THERE IS A DETAIL

SYMBOL WHERE DETAIL IS DRAWN

DETAIL SYMBOL

1 / E–4 — SHEET NO. WHERE SECTION IS DRAWN

SYMBOL WHERE THERE IS A SECTION

SECTION 1 — 1/4" = 1'–0" — E–3 — SHEET NO. WHERE SECTION IS TAKEN

SYMBOL WHERE SECTION IS DRAWN

SECTION SYMBOL

GENERAL NOTE
THIS IS A STANDARD LEGEND. SOME SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL LEGEND II

PROJECT NO. 20790–289282
FILE NAME: E002NFLG.DWG

SHEET NO.
E-2

ISSUED FOR BID

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SCOPE OF WORK:

1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED AND INSTALL COMPLETE AND MAKE OPERATIONAL, ELECTRICAL AND PROCESS INSTRUMENTATION SYSTEMS AT THE VALDOSTA WATER TREATMENT PLANT NO. 2 PROJECT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN DIVISION 26.
2. THE WORK SHALL INCLUDE FURNISHING, INSTALLING AND TESTING THE EQUIPMENT AND MATERIALS SPECIFIED IN OTHER SECTIONS OF THE DIVISION 26 SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
3. CONDUIT, WIRE AND FIELD CONNECTIONS FOR ALL MOTORS, MOTOR CONTROLLERS, CONTROL DEVICES, CONTROL PANELS AND ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS.
4. CONDUIT, WIRING AND TERMINATIONS FOR ALL FIELD_MOUNTED INSTRUMENTS FURNISHED UNDER OTHER DIVISIONS, INCLUDING PROCESS INSTRUMENTATION PRIMARY ELEMENTS, TRANSMITTERS, LOCAL INDICATORS AND CONTROL PANELS. LIGHTNING AND SURGE PROTECTION EQUIPMENT WIRING AT PROCESS INSTRUMENTATION TRANSMITTERS. INSTALL VENDOR FURNISHED CABLES SPECIFIED UNDER OTHER DIVISIONS.
5. POWER WIRING FOR ALL HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, INCLUDING POWER WIRING FOR 120V UNIT HEATER MOTORS, THERMOSTATS, FAN MOTORS, DAMPERS AND OTHER HVAC INLINE UNIT WIRING SHOWN ON THE DRAWINGS.
6. A COMPLETE RACEWAY SYSTEM FOR THE DATA HIGHWAY CABLES AND SPECIALTY CABLE SYSTEMS. INSTALL THE DATA HIGHWAY (FIBER OPTIC, ETHERNET, ETC.) CABLES AND OTHER SPECIALTY CABLE SYSTEMS FURNISHED UNDER DIVISION 40 IN ACCORDANCE WITH THE SYSTEM MANUFACTURERS' INSTALLATION INSTRUCTIONS. REVIEW THE RACEWAY LAYOUT, PRIOR TO INSTALLATION, WITH THE SCADA/COMPUTER INSTRUMENTATION SYSTEM SUPPLIER (ISS) AND THE CABLE MANUFACTURER TO ENSURE RACEWAY COMPATIBILITY WITH THE SYSTEMS AND MATERIALS BEING FURNISHED. WHERE REDUNDANT CABLES ARE FURNISHED, INSTALL CABLES IN SEPARATE RACEWAYS.
7. PROVIDE PRECAST MANHOLES, PRECAST HANDHOLES AND LIGHT POLE BASES.
8. PROVIDE MANHOLE AND HANDHOLE FRAMES AND COVERS.
9. IT IS THE INTENT OF THE DIVISION 26 SPECIFICATIONS THAT THE ELECTRICAL SYSTEM SHALL BE SUITABLE IN EVERY WAY FOR THE SERVICE REQUIRED. ALL MATERIAL AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THE WORK OF THE DIVISION 26 SPECIFICATIONS SHALL BE FURNISHED AT NO EXTRA COST.
10. PROVIDE ELECTRICAL AND INSTRUMENTATION CONDUIT LAYOUT SHOP DRAWINGS FOR YARD ELECTRICAL, WITHIN AND UNDER ALL ROADS, BUILDINGS AND STRUCTURES TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. LAYOUTS SHALL INCLUDE BUT NOT BE LIMITED TO EQUIPMENT, PULL BOXES, MANHOLES, CONDUIT ROUTING, DIMENSIONING, METHODS AND LOCATIONS OF SUPPORTS, REINFORCING, ENCASEMENT, MATERIALS, CONDUIT SIZING, EQUIPMENT ACCESS, POTENTIAL CONFLICTS, BUILDING AND YARD LIGHTING, AND ALL OTHER PERTINENT TECHNICAL SPECIFICATIONS FOR ALL ELECTRICAL AND INSTRUMENTATION CONDUITS AND EQUIPMENT TO BE FURNISHED. THE LAYOUTS SHALL BE BASED ON APPROVED MANUFACTURERS' EQUIPMENT SHOP DRAWINGS. ALL LAYOUTS SHALL BE DRAWN TO SCALE ON 24" X 36" SHEETS.
11. IN ADDITION TO MANUFACTURER'S EQUIPMENT SHOP DRAWINGS, SUBMIT ELECTRICAL INSTALLATION WORKING DRAWINGS CONTAINING THE FOLLOWING:
    a. CONCEALED AND BURIED CONDUIT LAYOUTS, SHOWN ON FLOOR PLANS DRAWN AT NOT LESS THAN 1/4" = 1' – 0" SCALE. THE LAYOUTS SHALL INCLUDE LOCATIONS OF PROCESS EQUIPMENT, MOTOR CONTROL CENTERS, SWITCHBOARDS, TRANSFORMERS, PANELBOARDS, CONTROL PANELS AND EQUIPMENT, MOTORS, SWITCHES, MOTOR STARTERS, LARGE JUNCTION OR PULL BOXES, INSTRUMENTS AND ANY OTHER ELECTRICAL DEVICES CONNECTED TO CONCEALED OR BURIED CONDUITS. THE LAYOUTS SHALL BE BASED ON APPROVED MANUFACTURERS EQUIPMENT SHOP DRAWINGS.
    b. PLANS SHALL BE DRAWN ON HIGH QUALITY REPRODUCIBLE PAPER AND SHALL BE PRESENTED IN A NEAT, PROFESSIONAL MANNER. IN ADDITION TO THE HARD COPIES, LAYOUT DRAWINGS SHALL BE SUBMITTED IN PDF FORMAT.
    c. CONCRETE FLOORS AND/OR WALLS CONTAINING CONCEALED CONDUITS SHALL NOT BE POURED UNTIL CONDUIT LAYOUTS ARE APPROVED.
12. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF WORK AND MAKING ANY MINOR CORRECTION CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE ENTIRE SYSTEM AND ALL EQUIPMENT. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY; SUBSTANDARD WORK WILL BE REJECTED.
13. A SINGLE MANUFACTURER SHALL PROVIDE SWITCHBOARDS, MOTOR STARTERS, TRANSFORMERS, DISCONNECT SWITCHES, PANELBOARDS, ETC. THIS MANUFACTURER SHALL ALSO PROVIDE A SHORT CIRCUIT/COORDINATION/ARC FLASH STUDY SPECIFIED IN SECTION 260573 POWER SYSTEM STUDIES.
14. CONTRACTOR SHALL PROVIDE THEIR OWN TEMPORARY POWER FOR MISCELLANEOUS POWER (DRILLS, PUMPS, ETC.). NO FACILITY CIRCUITS SHALL BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER. ANY TEMPORARY ADDED SHALL BE REMOVED AT JOB COMPLETION.
15. COMPLETE COORDINATION WITH OTHER CONTRACTORS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS EQUIPMENT SUBMITTALS AND OBTAIN ALL RELEVANT SUBMITTALS.
16. MOUNT TRANSMITTERS, CONTROL PANELS, PROCESS INSTRUMENTS, OPERATORS STATIONS, ETC. FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS.
17. CONCRETE ELECTRICAL DUCT ENCASEMENT, INCLUDING BUT NOT LIMITED TO EXCAVATION, CONCRETE, CONDUIT, REINFORCEMENT, BACKFILLING, GRADING AND SEEDING IS INCLUDED IN DIVISION 26. ALL WORK SHALL BE DONE IN ACCORDANCE WITH DIVISIONS 2 AND 3 OF THE SPECIFICATIONS.

GENERAL NOTES:

1. ELECTRICAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL LAYOUT OF WORK TO BE INSTALLED UNDER THIS CONTRACT WITHOUT ATTEMPTING TO SHOW ALL DETAILS. FURNISH LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE CONTRACT DOCUMENTS.
2. COORDINATE WORK WITH OTHER TRADES AND THE OWNER.
3. CONTRACTOR'S WORK SHALL INCLUDE COMPLETE TESTING OF EQUIPMENT AND WIRING INCLUDING MAKING MINOR CORRECTIONS, CHANGES, OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY; SUBSTANDARD WORK WILL BE REJECTED.
4. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO MECHANICAL, STRUCTURAL DRAWINGS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. EXCEPT WHERE DIMENSIONS ARE SHOWN, LOCATIONS OF EQUIPMENT, FIXTURES, OUTLETS, AND SIMILAR DEVICES ARE APPROXIMATE.
5. WORK SHALL COMPLY WITH NEC AND LOCAL CODES.
6. DO NOT SPLICE CONDUCTORS EXCEPT AS NOTED.
7. POWER AND CONTROL CONDUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR WIRE SIZED PER TABLE 250.122 OF THE NEC (UON).
8. CONCEAL CONDUITS TO GREATEST EXTENT PRACTICABLE.
9. WHERE LOCAL DISCONNECTS AND CONTROL PANELS ARE SHOWN ON PLAN VIEWS, LOCATIONS ARE APPROXIMATE. ADJUST LOCATION AS REQUIRED TO COMPLY WITH NEC ARTICLE 110 FOR WORKING CLEARANCES.
10. DO NOT INSTALL MAJOR CONDUIT RUNS THROUGH AREAS DESIGNATED FOR FUTURE STRUCTURES.

SUBMITTALS:

1. SUBMIT SHOP DRAWINGS FOR EQUIPMENT, MATERIALS AND OTHER ITEMS FURNISHED UNDER DIVISION 26.
2. SUBMIT CONDUIT SHOP DRAWINGS FOR YARD ELECTRICAL, WITHIN AND UNDER ROADS, BUILDINGS AND STRUCTURES PRIOR TO COMMENCING WORK. DO NOT POUR CONCRETE UNTIL ENGINEER HAS APPROVED THE ASSOCIATED SHOP DRAWING.
3. SUBMIT POWER SYSTEM STUDIES IN ACCORDANCE WITH SECTION 260573.
4. SUBMIT OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
5. SUBMIT STARTUP/COMMISSIONING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
6. SUBMIT TESTING AND SERVICE REPORTS FOR EQUIPMENT AND MATERIALS FURNISHED UNDER DIVISION 26.
7. SUBMIT TRAINING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
8. SUBMIT RECORD DOCUMENTATION TO ACCURATELY SHOW COMPLETED INSTALLATION. INCLUDE MODIFICATIONS TO CONTRACT DOCUMENTS (ONE LINE POWER DIAGRAMS, EQUIPMENT ELEVATIONS, PANEL SCHEDULES, ELEMENTARY CONTROL DIAGRAMS, RISER DIAGRAMS, PLANS, CONDUIT AND DUCTBANK ROUTING, ETC) ALONG WITH ADDITIONAL DRAWINGS OR SKETCHES CREATED TO CONVEY COMPLETED INSTALLATION.

CLEANING:

1. REMOVE ALL RUBBISH AND DEBRIS FROM INSIDE AND AROUND ELECTRICAL EQUIPMENT AND ENCLOSURES.
2. REMOVE DIRT, DUST OR CONCRETE SPATTER FROM INTERIOR AND EXTERIOR OF EQUIPMENT USING BRUSHES, VACUUM CLEANER OR CLEAN LINT–FREE RAGS. DO NOT USE COMPRESSED AIR.

DELEGATED DESIGN / PROFESSIONAL ENGINEERING SERVICES:

1. WHEN ENGINEERING SERVICES ARE SPECIFIED TO BE PROVIDED BY CONTRACTOR, CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PERFORM THE SERVICES. ENGINEER SHALL BE LICENSED AT THE TIME SERVICES ARE PERFORMED AND LICENSED IN THE STATE IN WHICH PROJECT IS LOCATED. IF THE STATE ISSUES DISCIPLINE SPECIFIC LICENSES, ENGINEER SHALL BE LICENSED IN THE APPLICABLE DISCIPLINE. ENGINEER SHALL BE EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED.
2. ENGINEERING WORK SHALL BE DONE ACCORDING TO THE APPLICABLE REGULATIONS FOR PROFESSIONAL ENGINEERS TO INCLUDE SIGNING, SEALING AND DATING DOCUMENTS.

NEC CLASSIFIED HAZARDOUS AREAS:

1. THIS PROJECT INCLUDES NEC CLASSIFIED HAZARDOUS AREAS. THE FOLLOWING NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD APPLY:
    - NFPA 820 – STANDARD FOR FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES.
2. EQUIPMENT, MATERIALS, AND INSTALLATION SHALL COMPLY WITH NEC ARTICLES 500, 501, 502, AND 503.

CONTROL STATIONS AND INDICATORS:

1. CONTROL STATIONS SHALL BE HEAVY–DUTY TYPE, WITH FULL SIZE (30.5mm) NEMA 4X OR 7 OPERATORS, INDICATORS, ETC.
2. INDICATORS SHALL BE FULL VOLTAGE AND PUSH–TO–TEST TYPE. INDICATORS LOCATED INDOORS SHALL BE LED AND INDICATORS LOCATED OUTDOORS SHALL BE INCANDESCENT LAMP TYPE.
3. NEMA 4X ENCLOSURES SHALL BE STAINLESS STEEL.
4. NEMA 7 ENCLOSURE SHALL BE CAST ALUMINUM.
5. CONTROL STATIONS SHALL BE SQUARE D COMPANY CLASS 9001 OR SIMILAR BY EATON OR GENERAL ELECTRIC.

INTERPRETATION OF CONTRACT DOCUMENTS:

1. IF DURING PERFORMANCE OF WORK, THERE IS A CONFLICT, ERROR, OR DISCREPANCY BETWEEN OR AMONG CONTRACT DOCUMENTS AND LAWS AND REGULATIONS, PROVIDE THE HIGHER PERFORMANCE STANDARD UNLESS OTHERWISE DIRECTED BY ENGINEER.
2. PRIORITY OF DOCUMENTS: FIGURED DIMENSIONS GOVERN OVER SCALED DIMENSIONS, DETAILED DRAWINGS GOVERN OVER GENERAL DRAWINGS, LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, CHANGE ORDER DRAWINGS SUPERCEDE ORIGINAL CONTRACT DRAWINGS, AND CONTRACT DRAWINGS GOVERN SHOP DRAWINGS.
3. IN GENERAL, DRAWINGS DO NOT SHOW CONDUIT ROUTING. PLAN AND ROUTE CONDUITS IN COMPLIANCE WITH SPECIFICATIONS AND DRAWING DETAILS. COORDINATE INSTALLATION WITH OTHER TRADES AND ACTUAL SUPPLIED EQUIPMENT.
4. DUCTBANK ROUTING SHOWN ON ELECTRICAL SITE PLANS IS DIAGRAMMATIC IN NATURE AND MAY NOT INCLUDE INTERFERENCES THAT MAY BE PRESENT.
5. SEE ADDITIONAL NOTES ON ELECTRICAL LEGEND II SHEET.

ENCLOSURE TYPES:

PROVIDE THE FOLLOWING NEMA TYPE ELECTRICAL ENCLOSURES, UNLESS OTHERWISE NOTED:

1. NEMA 1 IN DRY, NON–PROCESS INDOOR LOCATIONS.
2. NEMA 12 IN "DUST" LOCATIONS SHOWN ON THE DRAWINGS.
3. NEMA 4X STAINLESS STEEL IN OUTDOOR LOCATIONS, ROOMS BELOW GRADE INCLUDING BASEMENTS AND BURIED VAULTS AND "DAMP" OR "WET" LOCATIONS SHOWN ON THE DRAWINGS.
4. NEMA 4X STAINLESS STEEL IN "CORROSIVE" LOCATIONS SHOWN ON THE DRAWINGS.
5. NEMA 7 AND LISTED FOR THE SPECIFIC NEC HAZARDOUS AREA CLASSIFICATION AS SHOWN ON THE DRAWINGS.

MATERIALS AND EQUIPMENT:

1. PROVIDE NEW MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC., AND SHALL BEAR APPROPRIATE UL LISTING MARK OR CLASSIFICATION MARKING. EQUIPMENT, MATERIALS, ETC. UTILIZED NOT BEARING A UL CERTIFICATION SHALL BE FIELD OR FACTORY UL CERTIFIED PRIOR TO EQUIPMENT ACCEPTANCE AND USE.
3. PROVIDE MAJOR ELECTRICAL EQUIPMENT BY A SINGLE MANUFACTURER: I.E. UNIT SUBSTATIONS, SWITCHGEAR, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, TRANSFORMERS, PANELBOARDS, ETC.

EQUIPMENT SIZE, HANDLING AND STORAGE:

1. COORDINATE WITH EQUIPMENT MANUFACTURER SHIPPING SPLITS TO PERMIT SAFE HANDLING AND PASSAGE OF EQUIPMENT TO FINAL INSTALLATION LOCATION.
2. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR UPRIGHT EQUIPMENT ORIENTATION DURING TRANSPORTATION.
3. PROTECT EQUIPMENT FROM MECHANICAL INJURY, OR EXPOSURE TO MOISTURE, CHEMICALS, OR CORROSIVE GASES. DO NOT STORE ELECTRICAL EQUIPMENT OUTDOORS.
4. PROVIDE AND ENERGIZE TEMPORARY SPACE HEATERS IF REQUIRED TO CONTROL MOISTURE DURING STORAGE.

CUTTING AND PATCHING:

1. CUT AND PATCH IN A WORKMANLIKE MANNER AS REQUIRED TO INSTALL ELECTRICAL WORK.
2. CUTTING OF STRUCTURAL MEMBERS SUCH AS JOISTS, BEAMS, GIRDERS OR COLUMNS IS PROHIBITED.
3. PATCH SURFACES TO RESTORE TO ORIGINAL INTEGRITY (WATERPROOF OR FIREPROOF AS REQUIRED) AND APPEARANCE.

SERVICE AND METERING:

1. ELECTRIC POWER COMPANY SERVING THIS PROJECT IS GEORGIA POWER COMPANY. POWER COMPANY CONTACT IS JESSICA RICKETSON, POWER COMPANY TELEPHONE (229) 241–2558, EMAIL: JRICKETS@SOUTHERNCO.COM. COMPLY WITH POWER COMPANY STANDARDS.
2. PAY FOR FEES AND CHARGES AS REQUIRED FOR TEMPORARY/CONSTRUCTION POWER FOR CONTRACTOR'S USE.
3. POWER COMPANY WORK:
    - FURNISH CONDUIT MATERIALS FOR UNDERGROUND SERVICE TO UTILITY TRANSFORMER(S).
    - PROVIDE PRIMARY CONDUCTORS (UNDERGROUND) TO UTILITY TRANSFORMER(S).
    - PROVIDE UTILITY TRANSFORMER PAD(S) AND GROUNDING.
    - PROVIDE UTILITY TRANSFORMER(S).
    - TERMINATE UNDERGROUND PRIMARY CABLES AT THE UTILITY TRANSFORMER(S).
    - TERMINATE UNDERGROUND SECONDARY CABLES AT THE UTILITY TRANSFORMER(S).
    - PROVIDE METERING CURRENT TRANSFORMERS (CT'S), METER(S) AND METER WIRING.
4. CONTRACTOR WORK:
    - MAKE ALL ARRANGEMENTS WITH POWER COMPANY TO OBTAIN SERVICE, PAY POWER COMPANY FEES, AND PROVIDE LABOR AND MATERIALS REQUIRED FOR ELECTRICAL SERVICE.
    - INSTALL PRIMARY UNDERGROUND CONDUITS.
    - PROVIDE SECONDARY UNDERGROUND CONDUITS AND CABLE FROM UTILITY TRANSFORMER(S) TO SERVICE ENTRANCE EQUIPMENT.
    - PROVIDE POWER COMPANY APPROVED METERING CURRENT TRANSFORMER (CT) ENCLOSURE.
    - INSTALL METER BASE ENCLOSURE.
    - PROVIDE EMPTY CONDUIT WITH PULL LINE FROM THE METERING CT ENCLOSURE TO THE METER BASE ENCLOSURE.
    - COORDINATE REQUIREMENTS AND INSTALLATION WITH POWER COMPANY.

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL NOTES

PROJECT NO. 20790–289282
FILE NAME: E003NFNT.DWG

SHEET NO.
E-3

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GENERAL NOTES:

A. CONDUITS EMBEDDED IN CONCRETE SLABS SHALL MEET THE INSTALLATION AND SPACING REQUIREMENTS SPECIFIED IN DIVISION 3 AND AS SHOWN ON THE STRUCTURAL DRAWINGS.

B. REFER TO THE STRUCTURAL DRAWING DETAILS FOR EQUIPMENT PAD REQUIREMENTS.

C. REFER TO STRUCTURAL DRAWING S-1 FOR THE PROJECT WIND LOAD CRITERIA.

D. REFER TO SPECIFICATION SECTION 264113 FOR LIGHTNING PROTECTION SYSTEM REQUIREMENTS.

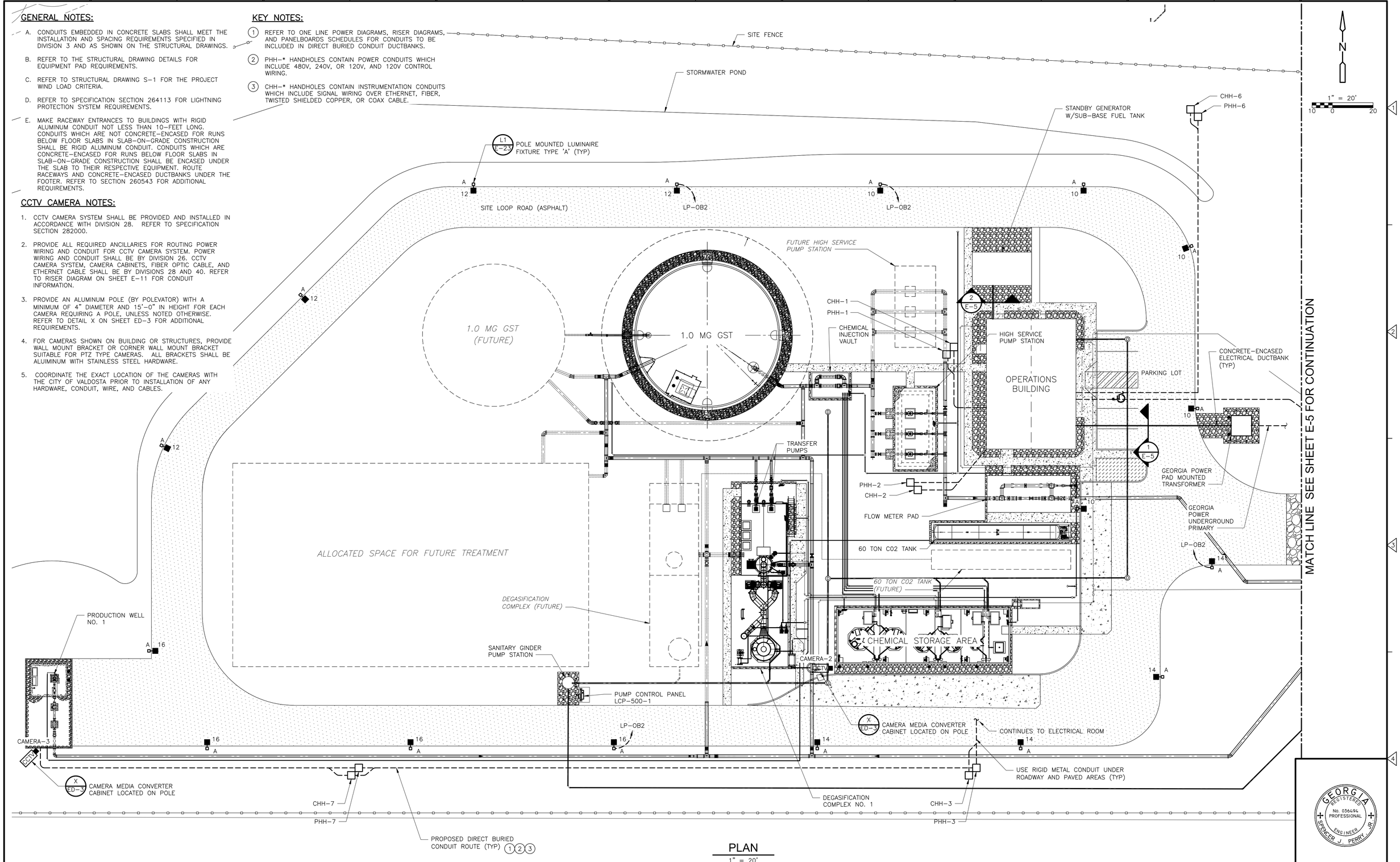
E. MAKE RACEWAY ENTRANCES TO BUILDINGS WITH RIGID ALUMINUM CONDUIT NOT LESS THAN 10-FEET LONG. CONDUITS WHICH ARE NOT CONCRETE-ENCASED FOR RUNS BELOW FLOOR SLABS IN SLAB-ON-GRADE CONSTRUCTION SHALL BE RIGID ALUMINUM CONDUIT. CONDUITS WHICH ARE CONCRETE-ENCASED FOR RUNS BELOW FLOOR SLABS IN SLAB-ON-GRADE CONSTRUCTION SHALL BE ENCASED UNDER THE SLAB TO THEIR RESPECTIVE EQUIPMENT. ROUTE RACEWAYS AND CONCRETE-ENCASED DUCTBANKS UNDER THE FOOTER. REFER TO SECTION 260543 FOR ADDITIONAL REQUIREMENTS.

CCTV CAMERA NOTES:

1. CCTV CAMERA SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH DIVISION 28. REFER TO SPECIFICATION SECTION 282000.
2. PROVIDE ALL REQUIRED ANCILLARIES FOR ROUTING POWER WIRING AND CONDUIT FOR CCTV CAMERA SYSTEM. POWER WIRING AND CONDUIT SHALL BE BY DIVISION 26. CCTV CAMERA SYSTEM, CAMERA CABINETS, FIBER OPTIC CABLE, AND ETHERNET CABLE SHALL BE BY DIVISIONS 28 AND 40. REFER TO RISER DIAGRAM ON SHEET E-11 FOR CONDUIT INFORMATION.
3. PROVIDE AN ALUMINUM POLE (BY POLEVATOR) WITH A MINIMUM OF 4" DIAMETER AND 15'-0" IN HEIGHT FOR EACH CAMERA REQUIRING A POLE, UNLESS NOTED OTHERWISE. REFER TO DETAIL X ON SHEET ED-3 FOR ADDITIONAL REQUIREMENTS.
4. FOR CAMERAS SHOWN ON BUILDING OR STRUCTURES, PROVIDE WALL MOUNT BRACKET OR CORNER WALL MOUNT BRACKET SUITABLE FOR PTZ TYPE CAMERAS. ALL BRACKETS SHALL BE ALUIMINUM WITH STAINLESS STEEL HARDWARE.
5. COORDINATE THE EXACT LOCATION OF THE CAMERAS WITH THE CITY OF VALDOSTA PRIOR TO INSTALLATION OF ANY HARDWARE, CONDUIT, WIRE, AND CABLES.

KEY NOTES:

1. REFER TO ONE LINE POWER DIAGRAMS, RISER DIAGRAMS, AND PANELBOARDS SCHEDULES FOR CONDUITS TO BE INCLUDED IN DIRECT BURIED CONDUIT DUCTBANKS.
2. PHH-* HANDHOLES CONTAIN POWER CONDUITS WHICH INCLUDE 480V, 240V, OR 120V, AND 120V CONTROL WIRING.
3. CHH-* HANDHOLES CONTAIN INSTRUMENTATION CONDUITS WHICH INCLUDE SIGNAL WIRING OVER ETHERNET, FIBER, TWISTED SHIELDED COPPER, OR COAX CABLE.



PLAN
1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL SITE PLAN I

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY

PROJECT NO. 20790-289282
FILE NAME: E004STPL.DWG

SHEET NO.
E-4

ISSUED FOR BID

XREFs: [CEP001SS, MWP002PS, AWZ000OB - 3D View - 3D Process Export, R_MWP001CW, M011PSPL, CWP008ST, CDMS_2436, EWP000ST, M021PSPL, CWP002ST, MWP001PS, MWP001CH, SWZ000HS - HSPS Plan, M006STPL, M014PSSC, R_MWP001IV, R_MWP002CH, M015CHPL, M004CLPL] Images: []
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MATCH LINE SEE SHEET E-4 FOR CONTINUATION

FIBER OPTIC DISTRIBUTION PANEL

ENTRANCE SECURITY SLIDING GATE OPERATOR

Z ED-3 SECURITY SLIDING GATE

CHH-4

PHH-4

CCTV CAMERA-1

Y ED-3 CARD READER/INTERCOM/VIDEO CAMERA PEDESTAL

X ED-3 CAMERA MEDIA CONVERTER CABINET LOCATED ON POLE

PHH-5

PROPOSED DIRECT BURIED CONDUIT ROUTE (TYP) (1)(2)(3)

CHH-5

SITE FENCE

PRODUCTION WELL NO. 2

CCTV CAMERA-4

CAMERA MEDIA CONVERTER CABINET LOCATED ON POLE X ED-3

SECURITY GATE

PRODUCTION WELL NO. 2 ACCESS ROAD (LIMEROCK)

FINISHED GRADE (TYP)

WARNING TAPE (TYP)

POWER

(1) (1) (1)
(1) (1) (1)

REFER TO DETAIL N, UNDERGROUND POWER DUCTBANK ON SHEET ED-2 (TYP)

ELECTRICAL DUCTBANK SECTION 1 / E-4
NTS

POWER (2) (2) (2) VARIES CONTROL (3) (4)

REFER TO DETAIL M, UNDERGROUND SIGNAL DUCTBANK ON SHEET ED-2

ELECTRICAL DUCTBANK SECTION 2 / E-4
NTS

DUCTBANK LEGEND
(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
(1)	4"C., TO SE MCB (480V)
(2)	4"C., TO STANDBY GENERATOR (480V)
(3)	2"C., TO STANDBY GENERATOR (CONTROLS)
(4)	1"C., TO MPZ-GEN (480V)

KEY NOTES:

1. REFER TO ONE LINE POWER DIAGRAMS, RISER DIAGRAMS, AND PANELBOARDS SCHEDULES FOR CONDUITS TO BE INCLUDED IN DIRECT BURIED CONDUIT DUCTBANKS.
2. PHH-* HANDHOLES CONTAIN POWER CONDUITS WHICH INCLUDE 480V, 240V, OR 120V, AND 120V CONTROL WIRING.
3. CHH-* HANDHOLES CONTAIN INSTRUMENTATION CONDUITS WHICH INCLUDE SIGNAL WIRING OVER ETHERNET, FIBER, TWISTED SHIELDED COPPER, OR COAX CABLE.

N

1" = 20'
10 0 20

PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL SITE PLAN II

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR

PROJECT NO. 20790-289282
FILE NAME: E005STPL.DWG

SHEET NO.
E-5

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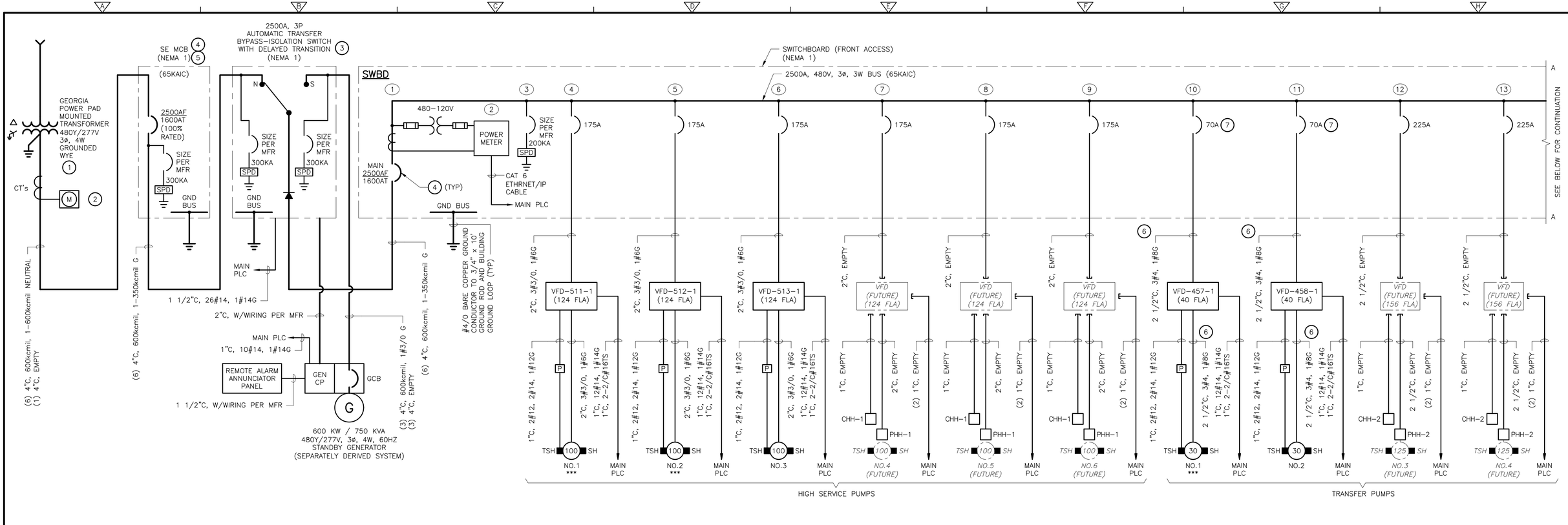

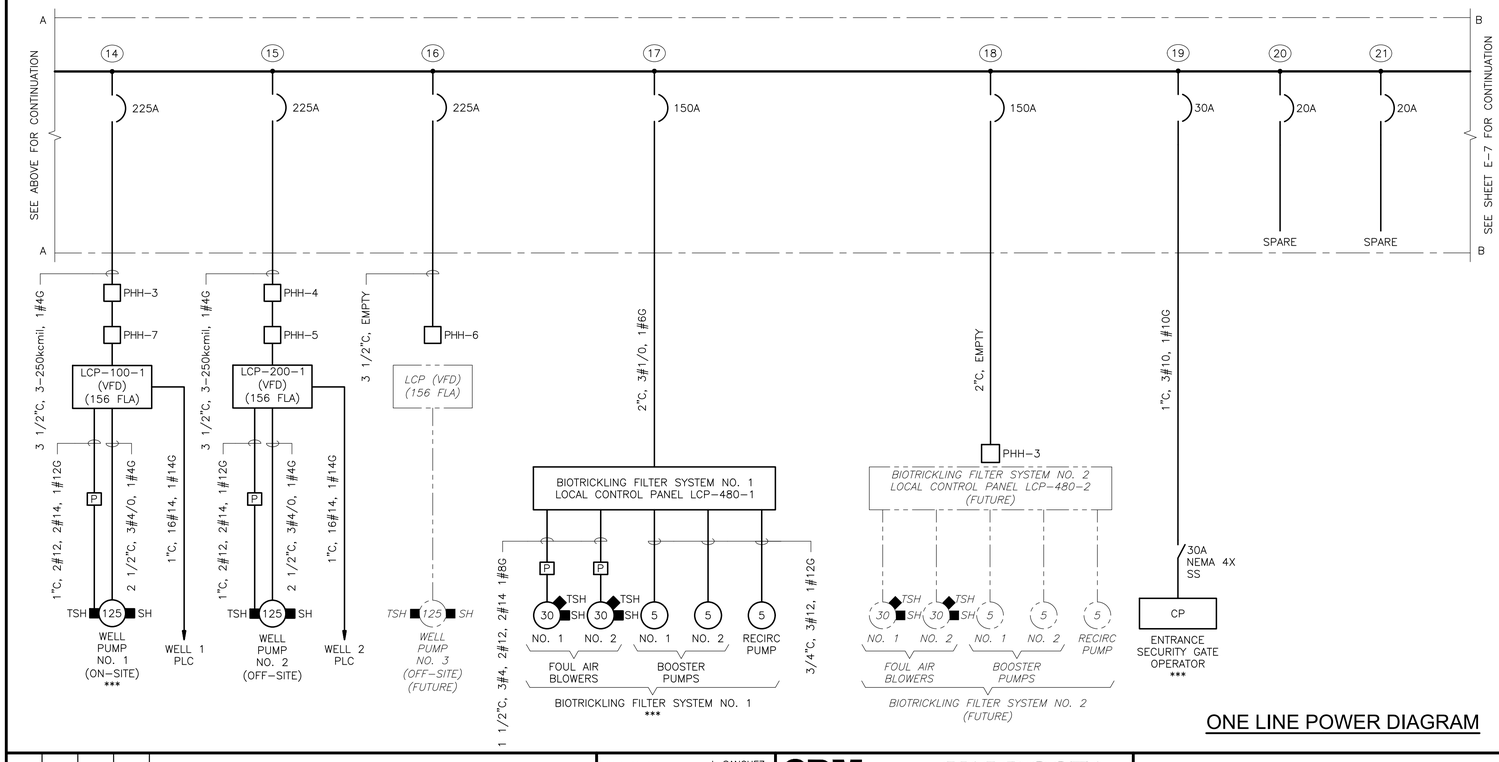

SE MCB CONNECTED LOAD SCHEDULE	
DESCRIPTION	**LOAD (AMPERES)**
SWBD	1133
TOTAL CONNECTED LOAD (AMPERES @ 480V, 3-PHASE) =	**1133**

SWBD CONNECTED LOAD SCHEDULE	
DESCRIPTION	**LOAD (AMPERES)**
HIGH SERVICE PUMP NO. 1 ***	124
HIGH SERVICE PUMP NO. 2 ***	124
HIGH SERVICE PUMP NO. 3	124
TRANSFER PUMP NO. 1 ***	40
TRANSFER PUMP NO. 2	40
WELL PUMP NO. 1 (ON-SITE) ***	156
WELL PUMP NO. 2 (OFF-SITE)	156
CO2 STORAGE TANK NO. 1 REFRIGERATION SYSTEM ***	30
BIOTRICKLING FILTER SYSTEM NO. 1 ***	95
SANITARY GRINDER PUMP STATION ***	31
ENTRANCE SECURITY GATE OPERATOR CP ***	2
WAC-1 ***	13
WAC-2 ***	13
WAC-3 ***	13
EWH-1 ***	4
MPZ-GEN ***	31
MPZ-CC1 ***	18
MPZ-CF ***	18
TRANSFORMER TX-OB ***	36
IWH-1	65
TOTAL CONNECTED LOAD (AMPERES @ 480V, 3-PHASE) =	**1133**

***** STANDBY GENERATOR LOAD**

NOTE:
THREE-PHASE AC MOTOR FULL LOAD CURRENTS PER NEC TABLE 430.250.

*** – STANDBY GENERATOR LOAD

KEY NOTES:

1. THE ESTIMATED MAXIMUM AVAILABLE FAULT CURRENT AT THE SECONDARY TERMINALS OF THE TRANSFORMER IS 25,700 AMPS. BASED ON 1000 KVA, 5.75% Z TRANSFORMER.
2. PROVIDE METER SOCKET AND PEDESTAL PER GEORGIA POWER REQUIREMENTS FOR ELECTRIC SERVICE.
3. ASCO 7000 SERIES AUTOMATIC TRANSFER BYPASS–ISOLATION SWITCH WITH DELAYED TRANSITION, FRONT CONNECTED AND FRONT ACCESS. PROVIDE ASCO 5210 POWER QUALITY METER WITH TDI 150BT1 TECHNOLOGY PACKAGE AND ETHERNET MODULE.
4. ALL CIRCUIT BREAKERS RATED 400A AND LARGER SHALL BE 100% RATED AND HAVE LSIG.
5. SWITCHBOARD CONSTRUCTION. PROVIDE AN ENERGY–REDUCING MAINTENANCE SWITCH FOR THE SE MCB.
6. CONDUIT SIZED FOR FUTURE 125HP TRANSFER PUMP.
7. CIRCUIT BREAKER SPACE MUST ALSO BE SUITABLE FOR A 225A CIRCUIT BREAKER WHEN THE PUMPS ARE INCREASED TO 125HP IN THE FUTURE.

ONE LINE POWER DIAGRAM

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. RUCK
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ONE LINE POWER DIAGRAM I

PROJECT NO. 20790–289282
FILE NAME: E006NFOL.DWG

SHEET NO.
E-6

ISSUED FOR BID

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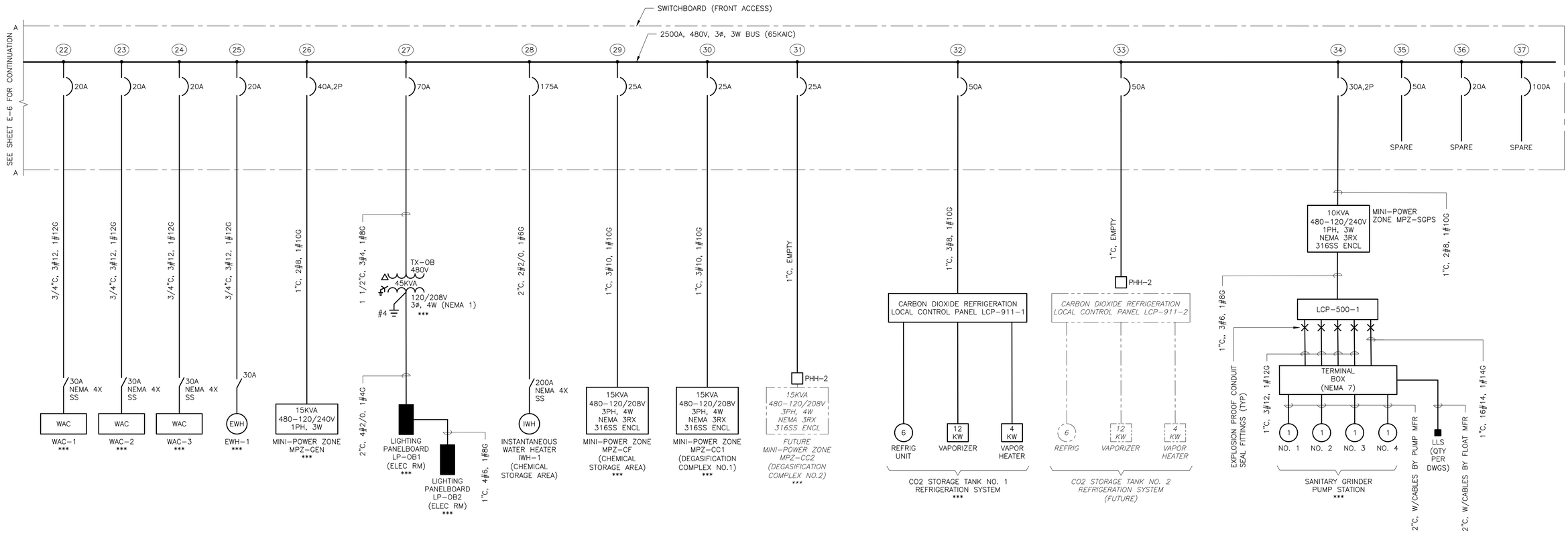

ONE LINE POWER DIAGRAM

*** – STANDBY GENERATOR LOAD

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. RUCK
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

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Jacksonville, FL 32256
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ONE LINE POWER DIAGRAM II

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: E007NFOL.DWG

SHEET NO.
E-7

ISSUED FOR BID

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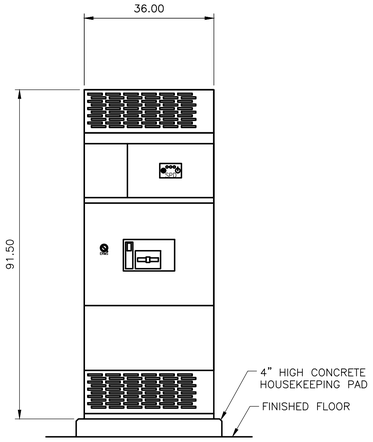
NOTE:

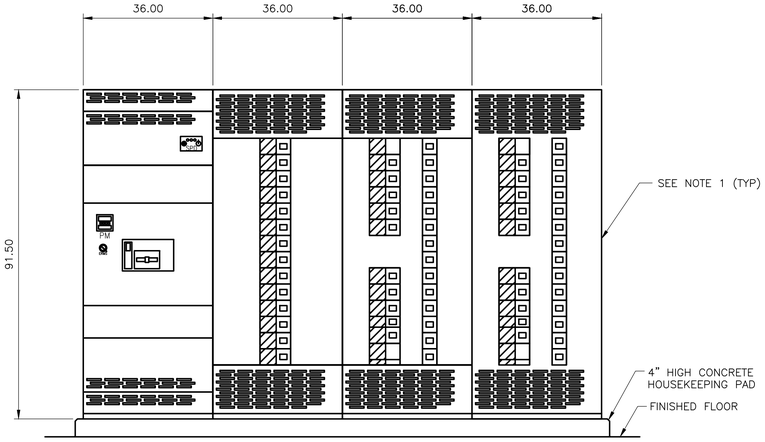
1. CIRCUIT BREAKER OPERATING HANDLE HEIGHT NOT TO EXCEED NEC REQUIREMENTS WHEN SWITCHBOARD IS LOCATED ON 4—INCH HIGH HOUSEKEEPING PAD. CIRCUIT BREAKER OPERATING HANDLES LOCATED MORE THAN 78—INCHES ABOVE THE OPERATING FLOOR SHALL BE PROVIDED WITH OPERATING ARM EXTENSIONS.



SE MCB

FRONT ELEVATION

NTS



SWBD

FRONT ELEVATION

NTS

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

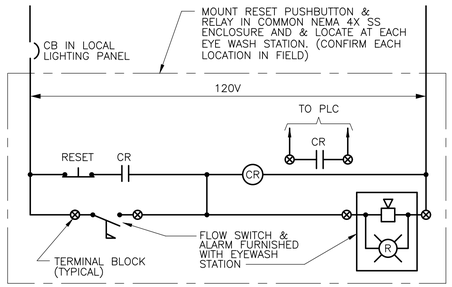
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

FRONT ELEVATIONS

PROJECT NO. 20790-289282
FILE NAME: E008NFEL.DWG

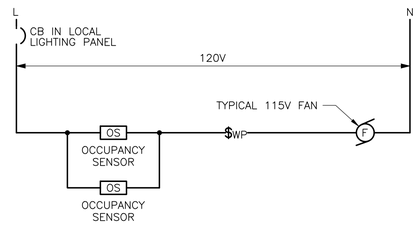
SHEET NO.
E-8

ISSUED FOR BID



EYE WASH ALARM AND RESET

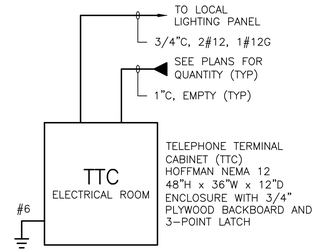
ELEMENTARY CONTROL DIAGRAM



115V EXHAUST FAN

ELEMENTARY CONTROL DIAGRAM

(EF-1)



TELEPHONE

RISER DIAGRAM

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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APPROVED BY: S. PERRY
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VALDOSTA A City Without Limits
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Jacksonville, FL 32256
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELEMENTARY CONTROL DIAGRAMS I

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: E009NFCD.DWG

SHEET NO.
E-9

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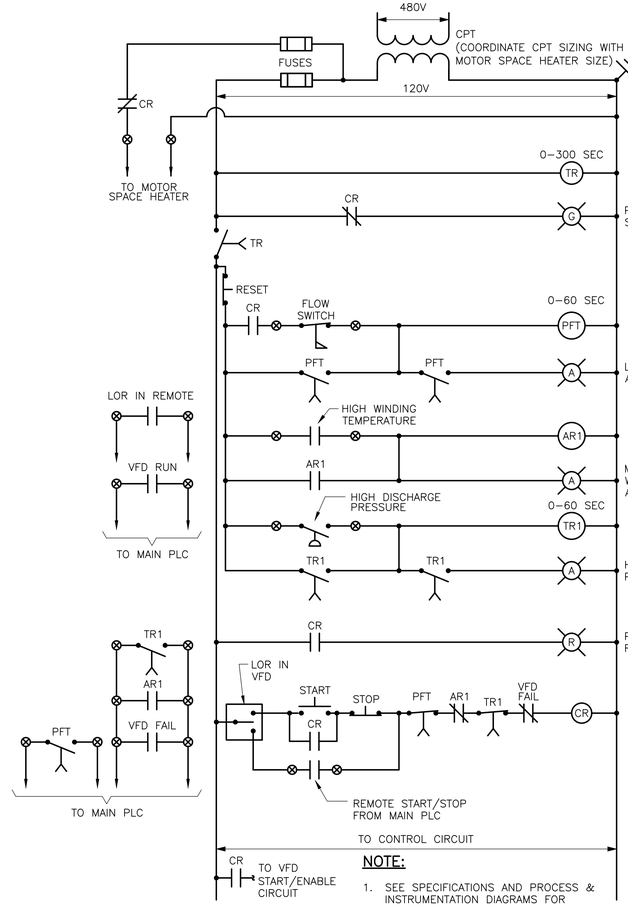
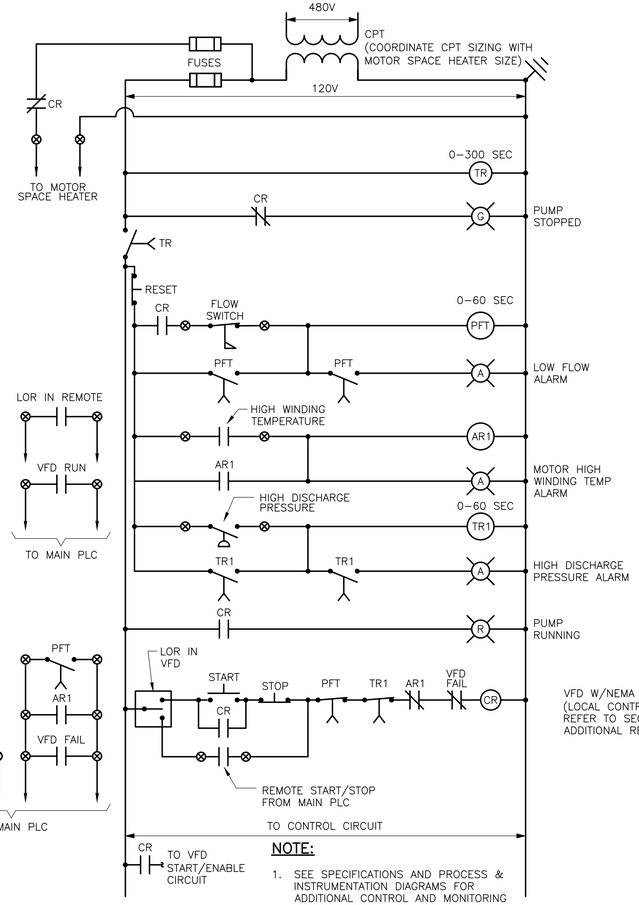


HIGH SERVICE PUMP VARIABLE FREQUENCY DRIVES

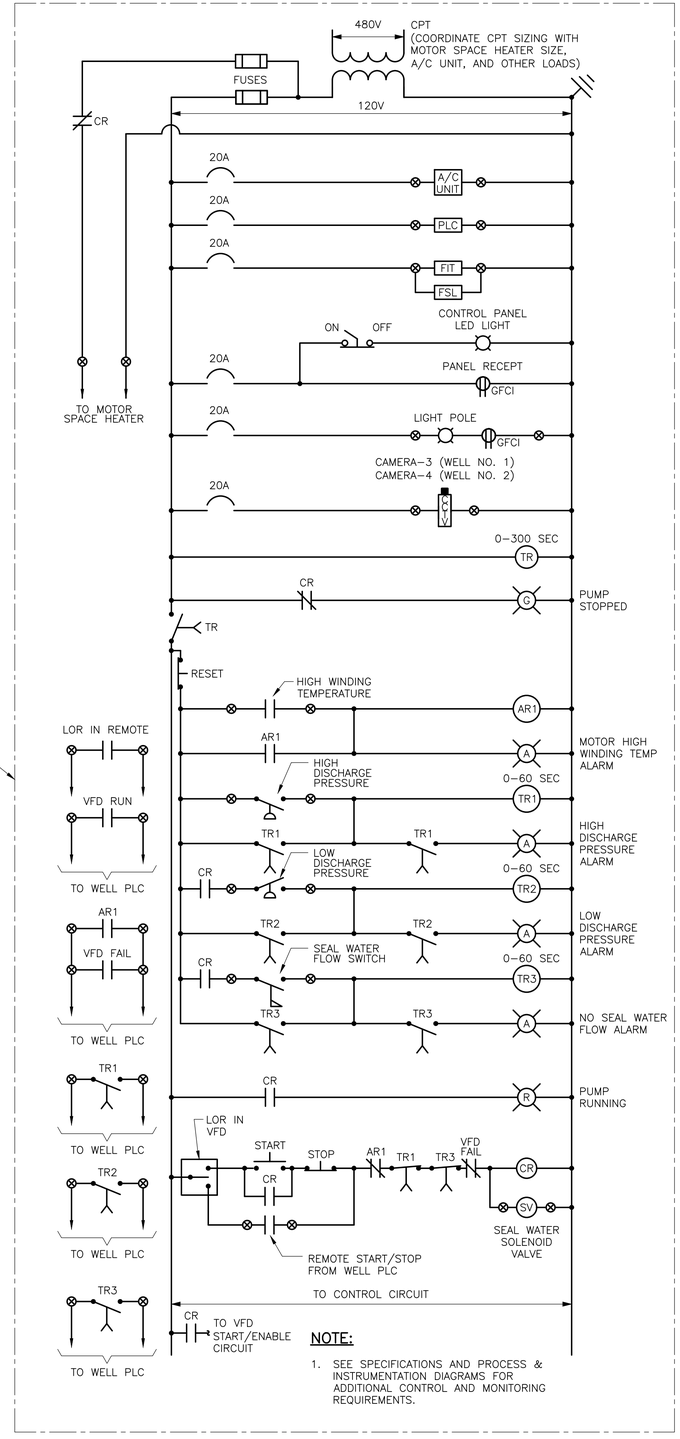
ELEMENTARY CONTROL DIAGRAM



TRANSFER PUMP VARIABLE FREQUENCY DRIVES

ELEMENTARY CONTROL DIAGRAM

VFD W/NEMA 4X SS ENCLOSURE (LOCAL CONTROL PANEL LCP-100-1) REFER TO SECTION 262923.25 FOR ADDITIONAL REQUIREMENTS



WELL PUMP VARIABLE FREQUENCY DRIVES

ELEMENTARY CONTROL DIAGRAM

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELEMENTARY CONTROL DIAGRAMS II

PROJECT NO. 20790-289282
FILE NAME: E010NFCD.DWG

SHEET NO.
E-10

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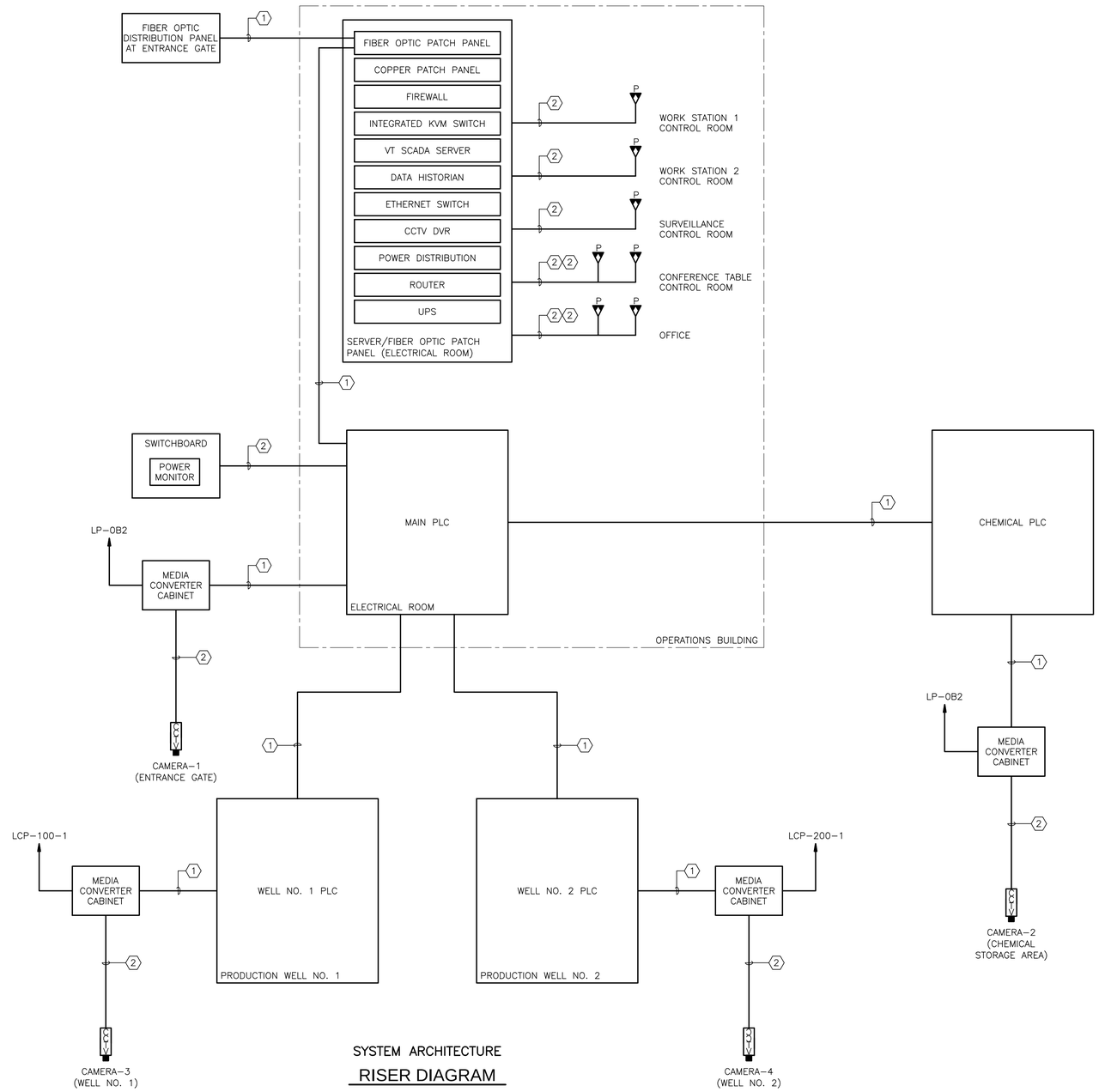
CONDUIT AND WIRE LEGEND
(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
1	2"C, FIBER OPTIC CABLE (BY DIV 27)
2	1"C, ETHERNET/IP CAT 6 CABLE (BY DIV 27)



SYSTEM ARCHITECTURE

RISER DIAGRAM

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SYSTEM ARCHITECTURE RISER DIAGRAM

PROJECT NO. 20790-289282
FILE NAME: E011NFRD.DWG

SHEET NO.
E-11

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

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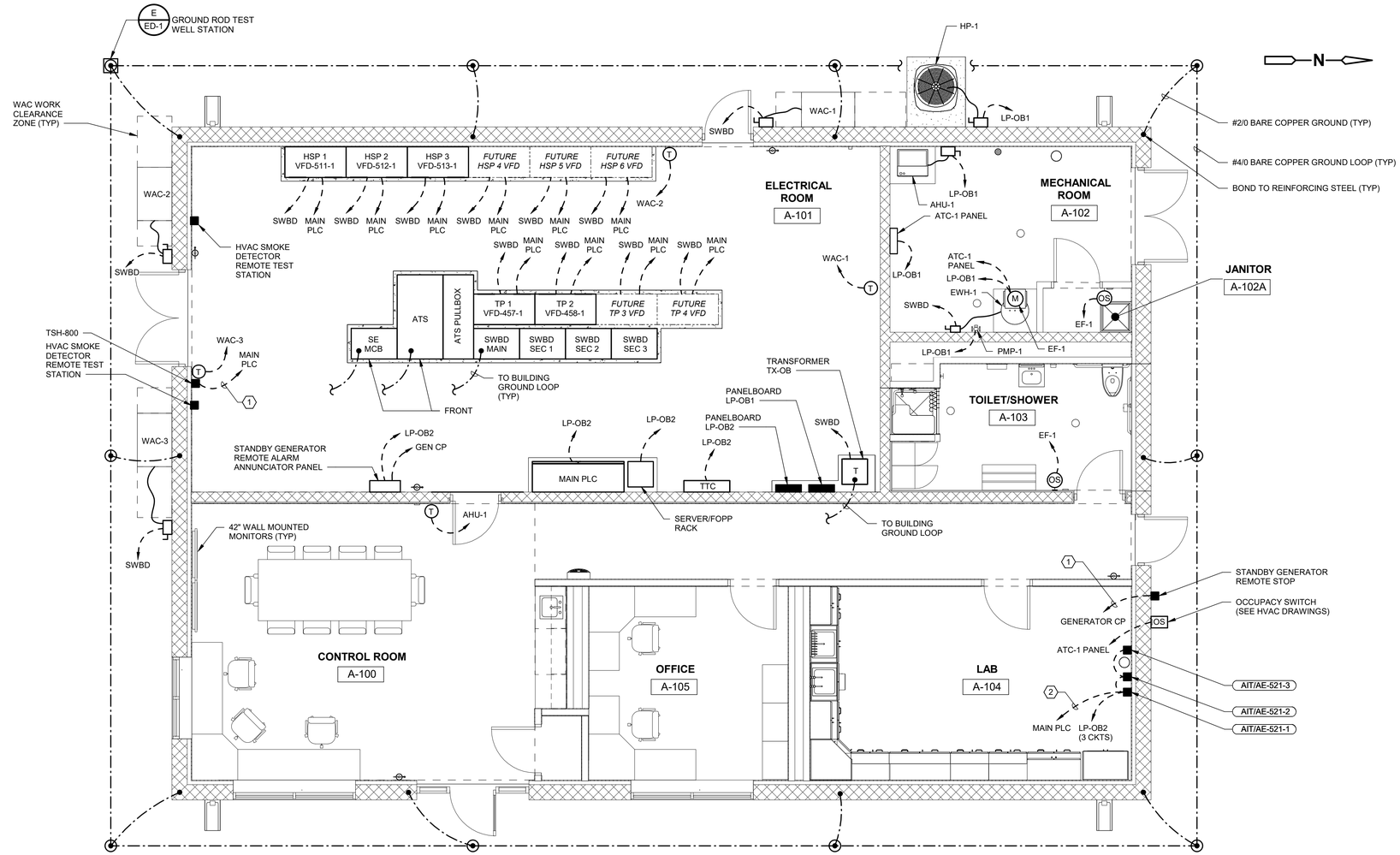
CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
1	3/4"C, 2#14, 1#14G
2	1 1/2"C, 4-2/C#16TS



PLAN
1/4" = 1'-0"

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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DATE: JULY 2025

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COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

OPERATIONS BUILDING
POWER PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: EWZ000OB.RVT

SHEET NO.
E-12

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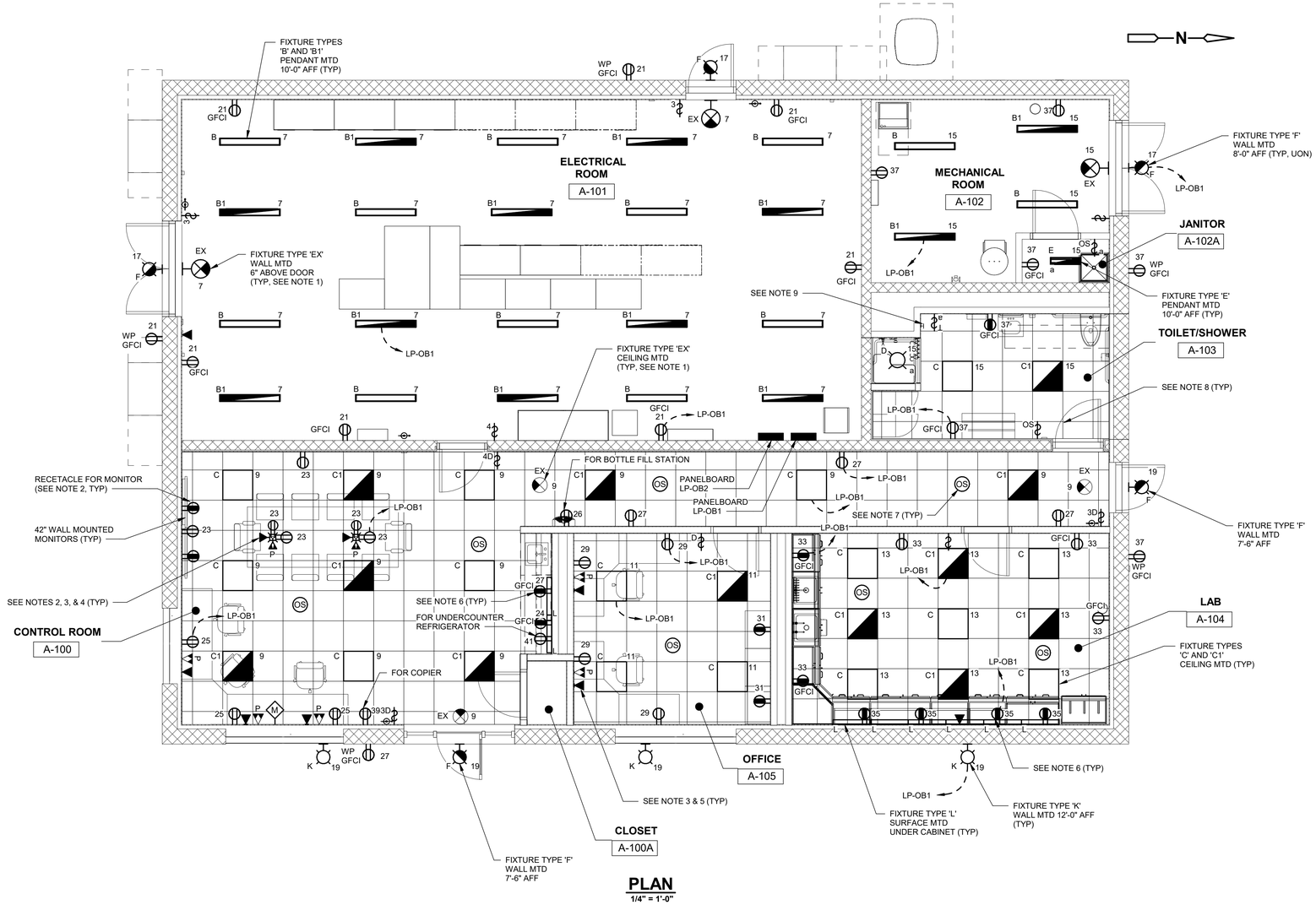

PLAN
1/4" = 1'-0"

NOTES:

1. EXIT SIGNS SHALL BE WIRED TO THE NORMAL LIGHTING CIRCUIT OF THE ROOM IT SERVES AND TO THE LINE-SIDE OF THE LIGHT SWITCH.
2. RECEPTACLE FOR WALL MOUNT MONITOR. COORDINATE LOCATION WITH THE CITY PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.
3. COORDINATE LOCATION WITH THE CITY AND THE FURNITURE PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.
4. FLUSH FLOOR OUTLET BOX WITH CAT6 ETHERNET JACK, TELEPHONE, AND RECEPTACLES. COORDINATE LOCATION WITH THE CITY AND FURNITURE PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.
5. COORDINATE LOCATION OF TELEPHONE AND CAT6 ETHERNET JACKS WITH THE CITY PRIOR TO THE INSTALLATION OF THE RACEWAY SYSTEM.
6. COORDINATE THE RECEPTACLE LOCATION AND HEIGHT WITH COUNTERTOP, CABINET, AND BACKSPLASH PRIOR TO INSTALLATION OF THE RACEWAY SYSTEM.
7. WATTSTOPPER MODEL NO. DT-355 360 DEGREE DUAL TECHNOLOGY LINE VOLTAGE CEILING MOUNTED OCUUPANCY SENSOR WITH LIGHT LEVEL FEATURE. TURNS LIGHTING SYSTEMS ON AND OFF BASED ON OCCUPANCY AND AMBIENT LIGHT LEVELS. LIGHT LEVEL FEATURE CAN BE USED TO KEEP LIGHTS FROM TURNING ON IF THE AMBIENT LIGHT LEVEL IS SUFFICIENT. REFER TO AND FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
8. WATTSTOPPER MODEL NO. UW-100 LINE VOLTAGE ULTRASONIC WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH. TURNS LIGHTING SYSTEMS ON AND HOLDS IT ON AS LONG AS THE SENSOR DETECTS OCCUPANCY. AFTER NO MOVEMENT IS DETECTED FOR THE SELECTED TIME DELAY, THE LIGHTS SWITCH OFF. REFER TO AND FOLLOW THE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
9. WATTSTOPPER INTELISWITCH MODEL NO. TS-400 LINE VOLTAGE DIGITAL TIME SWITCH THAT AUTOMATICALLY TURNS THE LOAD OFF AFTER A PRESET AMOUNT OF TIME. THE LOAD CAN BE TURNED OFF ANYTIME DURING THE TIMER'S COUNTDOWN BY PUSHING THE ON/OFF BUTTON.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. RUCK
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

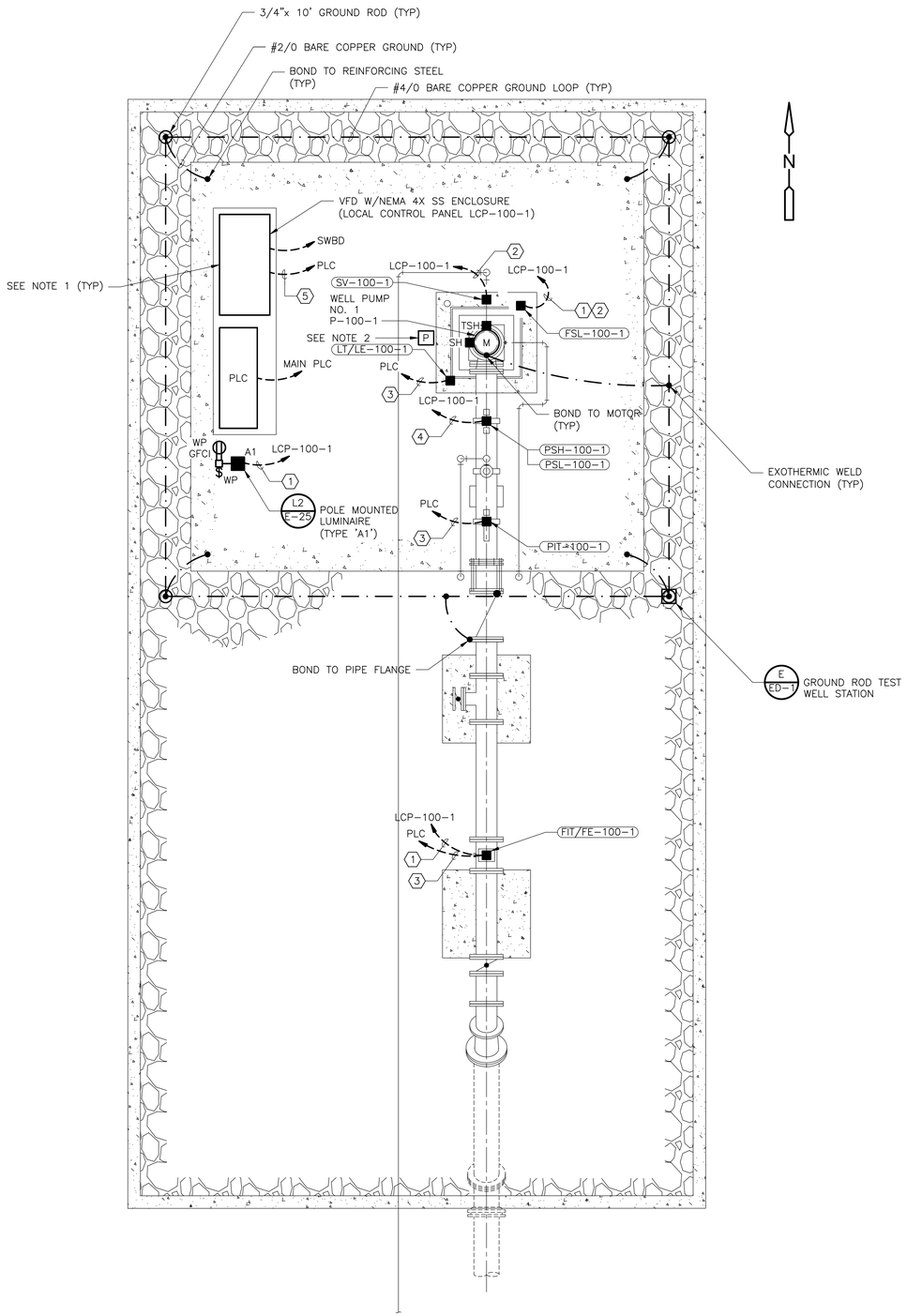
OPERATIONS BUILDING
LIGHTING PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY JR.

PROJECT NO. 20790-289282
FILE NAME: EWZ000OB.RVT

SHEET NO.
E-13

ISSUED FOR BID



WELL NO. 1

PLAN

3/8" = 1'-0"

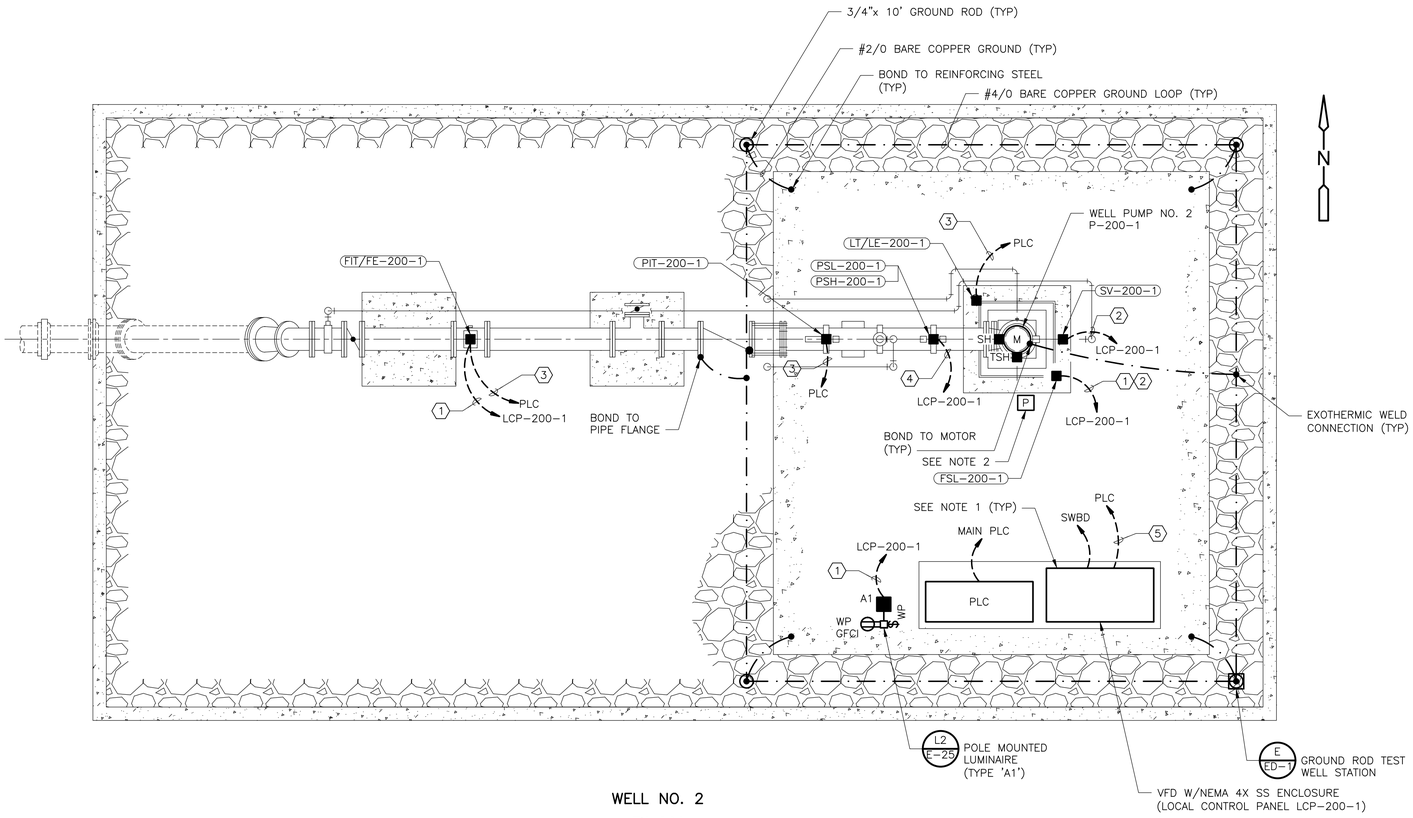
NOTES:

1. DO NOT STUB-UP ANY CONDUITS THROUGH THE THICKENED EDGE OF CONCRETE SLAB. POSITION ELECTRICAL EQUIPMENT AND ENCLOSURE CONDUIT OPENINGS ACCORDINGLY. REFER TO SECTION 1 ON SHEET S-13 FOR THICKENED EDGE SLAB.
2. COORDINATE CONDUIT STUB-UPS WITH THE MOTOR CONDUIT BOX LOCATION SHOWN IN THE MOTOR SHOP DRAWINGS.

CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
1	3/4"C., 2#12, 1#12G
2	3/4"C., 2#14, 1#14G
3	3/4"C., 1-2/C#16TS
4	3/4"C., 4#14, 1#14G
5	1"C., 16#14, 1#14G



WELL NO. 2

PLAN

3/8" = 1'-0"

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

WELL NO. 1 AND WELL NO. 2
ELECTRICAL PLANS

PROJECT NO. 20790-289282
FILE NAME: E014WSPS.DWG

SHEET NO.
E-14

ISSUED FOR BID

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NEC CLASSIFIED HAZARDOUS AREAS

DEGASIFICATION SYSTEM (DEGASIFIER AND BIOTRICKLING FILTER)
-NEC HAZARDOUS LOCATION CLASSIFICATION: CLASS I, DIVISION 2.

-EXTENT OF CLASSIFIED LOCATION: AREAS WITHIN 3-FEET OF LEAKAGE SOURCES SUCH AS FANS, DAMPERS, FLEXIBLE CONNECTIONS, FLANGES, PRESSURIZED UNWELDED DUCTWORK, AND DEGASIFICATION SYSTEM VESSELS.

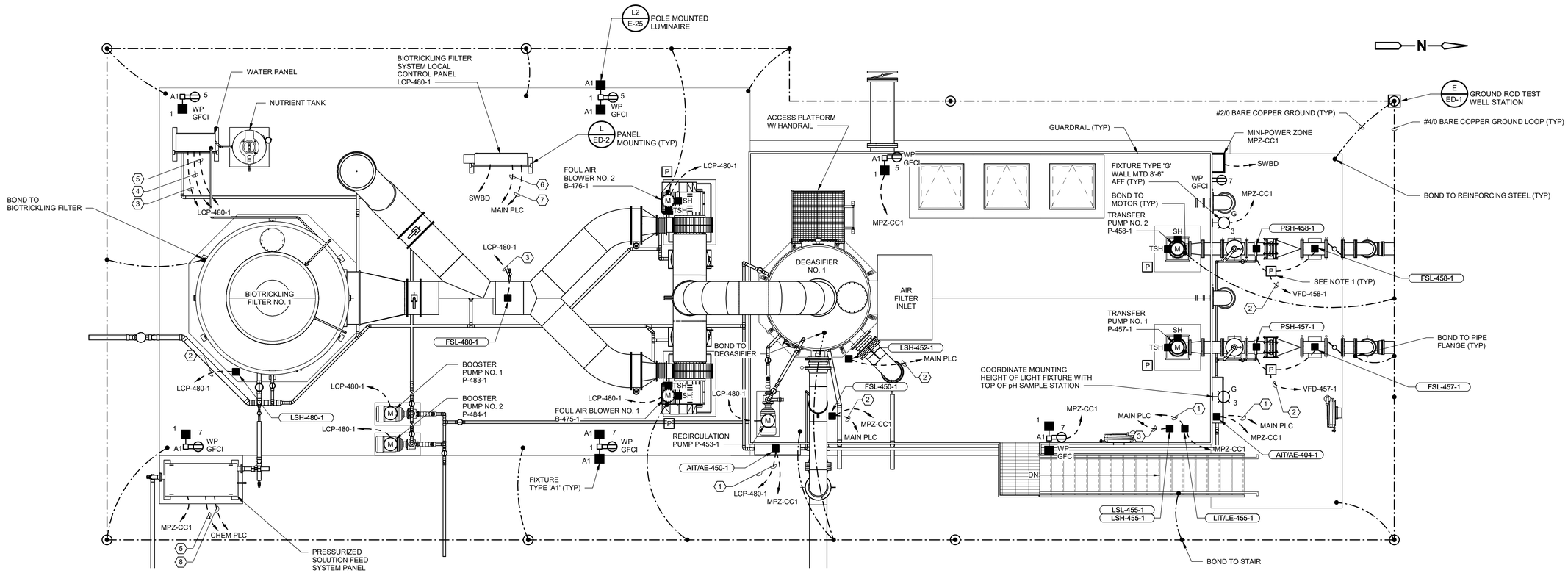
NOTE:

1. COORDINATE CONDUIT STUB-UPS WITH THE MOTOR CONDUIT BOX LOCATION SHOWN IN THE MOTOR SHOP DRAWING.

CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
①	3/4"C, 1-2/C#16TS
②	3/4"C, 2#14, 1#14G
②	3/4"C, 4#14, 1#14G
③	3/4"C, 2#12, 1#12G
③	3/4"C, 4#14, 1#14G
④	3/4"C, 2#12, 1#12G
⑤	1"C, 2-2/C#16TS
⑥	1 1/2"C, 24#14, 1#14G
⑦	1 1/2"C, 4-2/C#16TS
⑧	1"C, 14#14, 1#14G



PLAN
1/4" = 1'-0"

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. RUCK
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: S. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

DEGASIFICATION COMPLEX NO.1
ELECTRICAL PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY

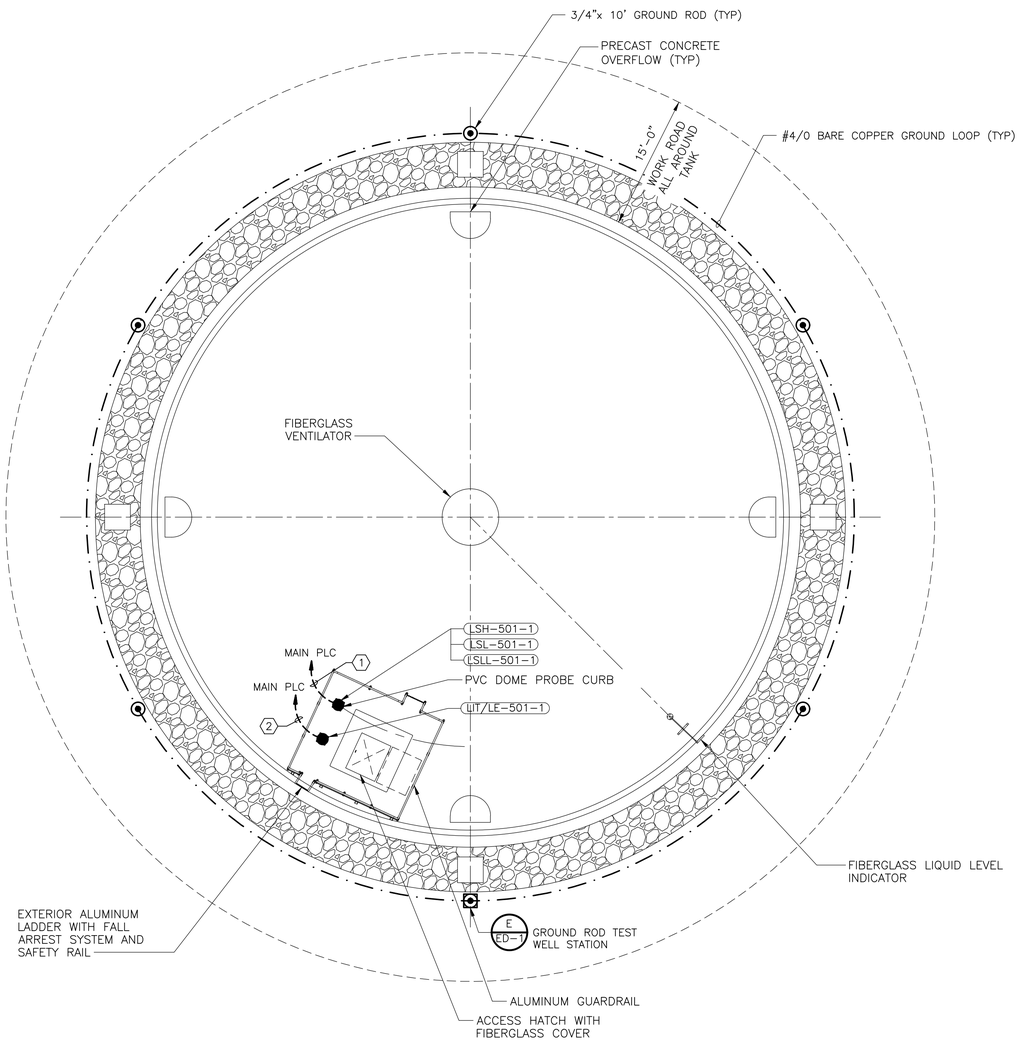
PROJECT NO. 20790-289282
FILE NAME: EWZ000CW.RVT

SHEET NO.
E-15

ISSUED FOR BID

CONDUIT AND WIRE LEGEND
(NUMBERS REFERENCE THIS SHEET ONLY)

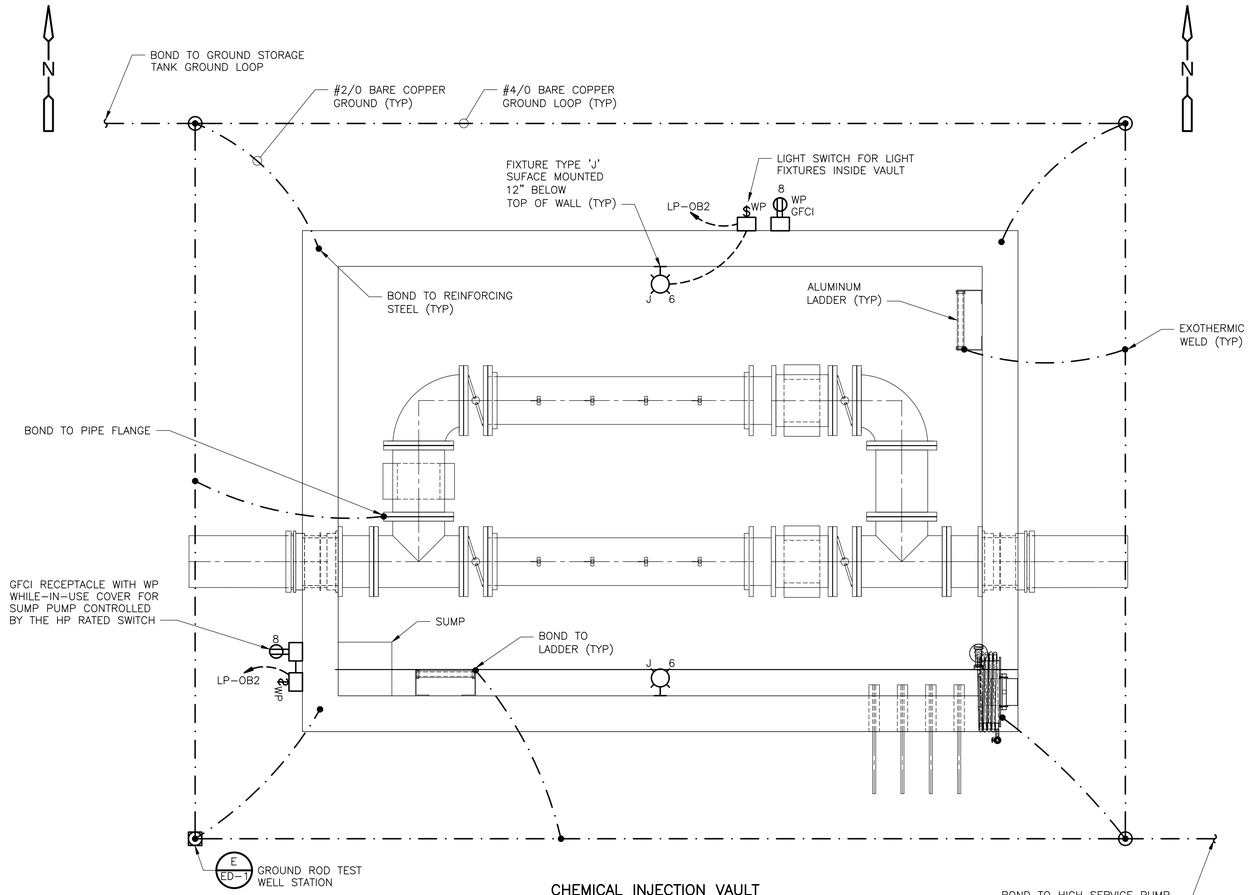
NO.	DESCRIPTION
1	3/4"C, 6#14, 1#14G
2	3/4"C, 1-2/C#16TS



GROUND STORAGE TANK NO. 1

PLAN

1/8" = 1'-0"



CHEMICAL INJECTION VAULT

PLAN

1/2" = 1'-0"

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

GROUND STORAGE TANK NO. 1 AND CHEMICAL INJECTION VAULT ELECTRICAL PLANS

PROJECT NO. 20790-289282
FILE NAME: E016STPL.DWG

SHEET NO.
E-16

ISSUED FOR BID

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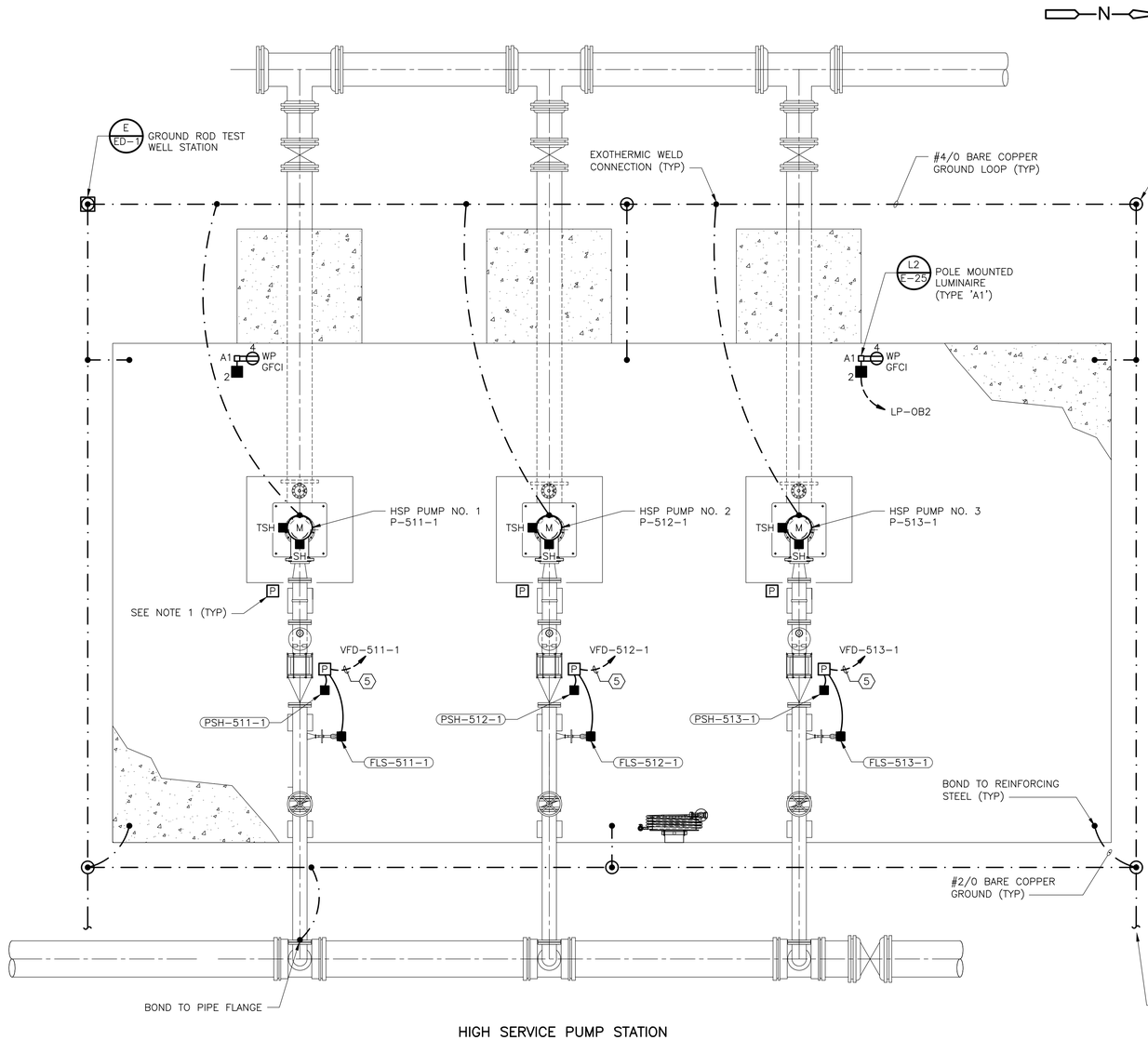
NOTE:

1. COORDINATE CONDUIT STUB-UPS WITH THE MOTOR CONDUIT BOX LOCATION SHOWN IN THE MOTOR SHOP DRAWING.

CONDUIT AND WIRE LEGEND
(NUMBERS REFERENCE THIS SHEET ONLY)

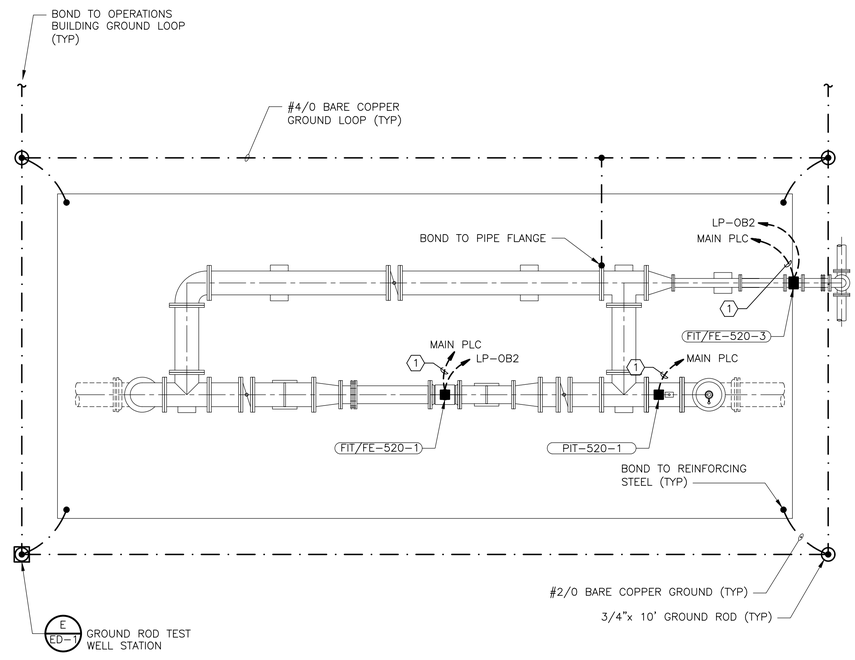
NO.	DESCRIPTION
1	3/4"C, 1-2/C#16TS
2	1"C, 2-2/C#16TS
3	1 1/2"C, 4-2/C#16TS
4	1"C, CAT6 ETHERNET CABLE
5	3/4"C, 4#14, 1#14G



HIGH SERVICE PUMP STATION

PLAN

3/8" = 1'-0"



FLOW METER PAD

PLAN

1/4" = 1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

HIGH SERVICE PUMP STATION AND FLOW METER ELECTRICAL PLANS

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: E017HSPS.DWG

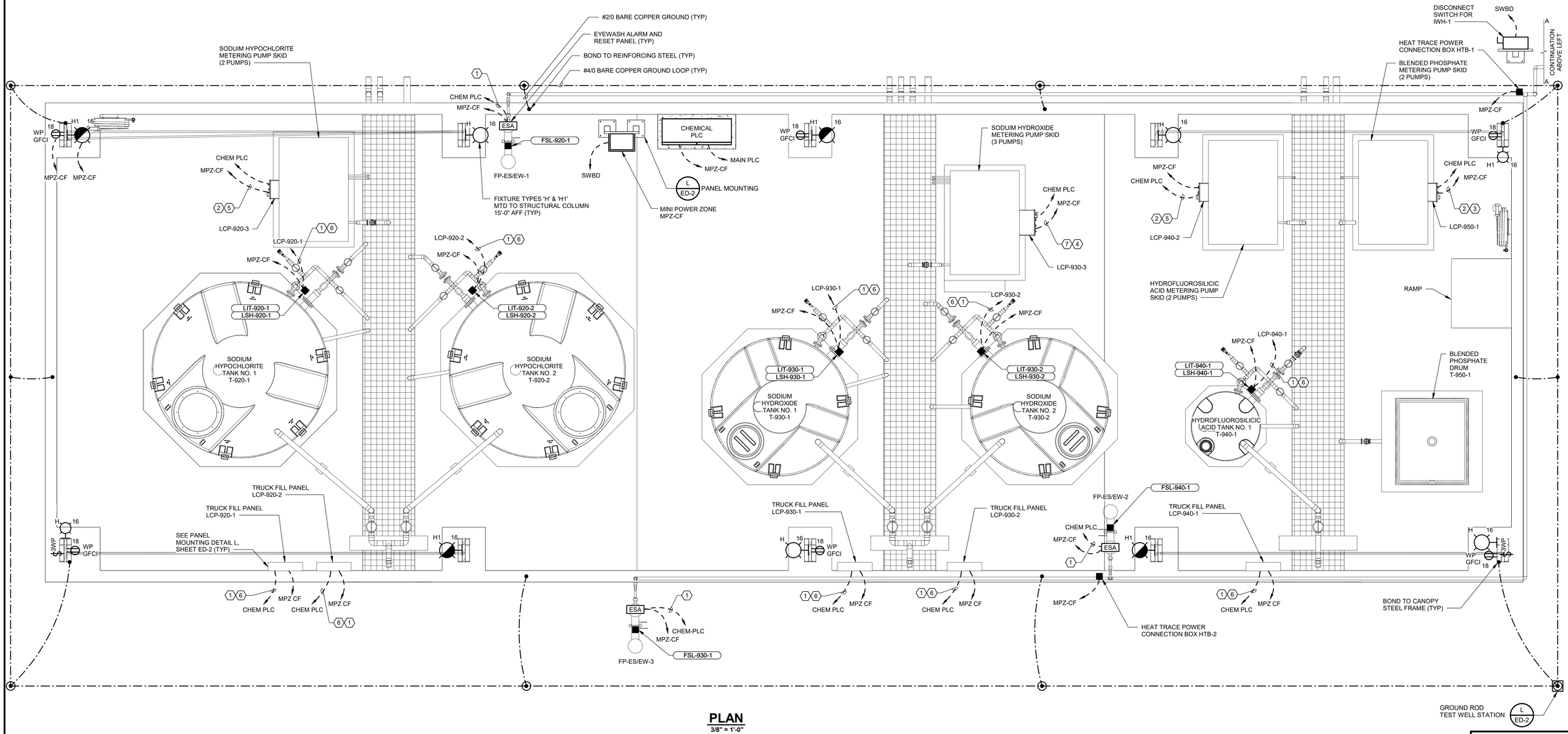
SHEET NO.
E-17

ISSUED FOR BID

CONDUIT AND WIRE LEGEND

(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
①	3/4"C., 4#14, 1#14G
②	1"C., 16#14, 1#14G
③	1 1/2"C., 4-2/C#16TS
④	1 1/4"C., 22#14, 1#14G
⑤	1 1/2"C., 6-2/C#16TS
⑥	3/4"C., 1-2/C#16TS
⑦	2"C., 9-2/C#16TS



PLAN
3/8" = 1'-0"

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. RUCK
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

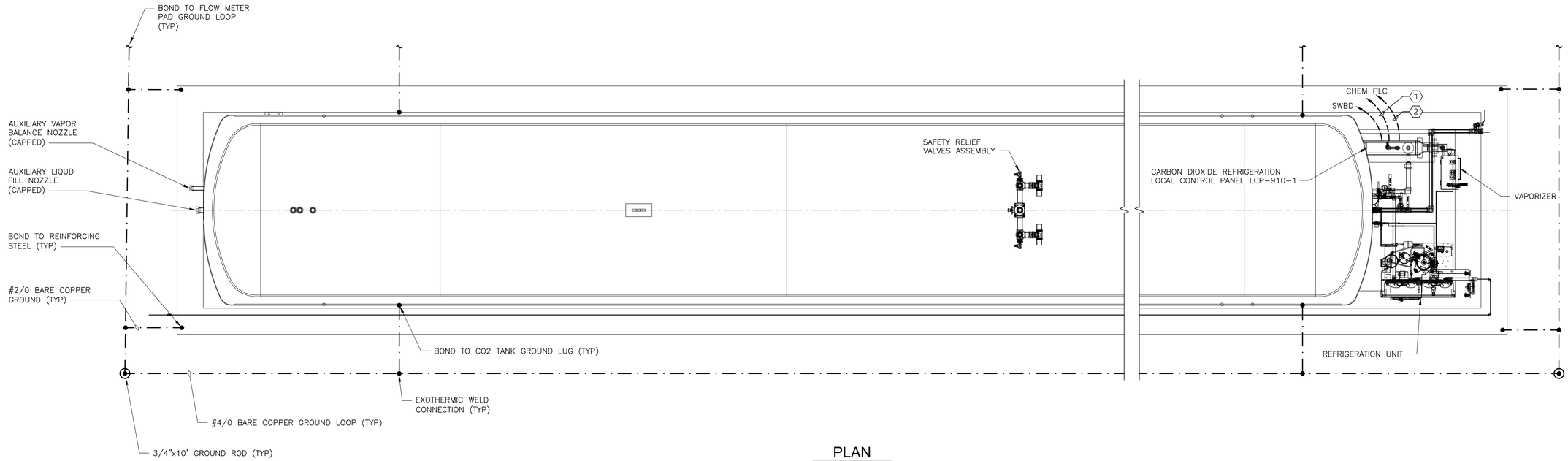
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CHEMICAL STORAGE AREA
ELECTRICAL PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: EWZ000CH.RVT
SHEET NO. E-18

ISSUED FOR BID



PLAN
1/2" = 1'-0"

CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
1	3/4"C, 6#14, 1#14G
2	3/4"C, 1-2/C#16TS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

CARBON DIOXIDE STORAGE AND FEED SYSTEM
ELECTRICAL PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: E019CDPL.DWG
SHEET NO.
E-19

ISSUED FOR BID

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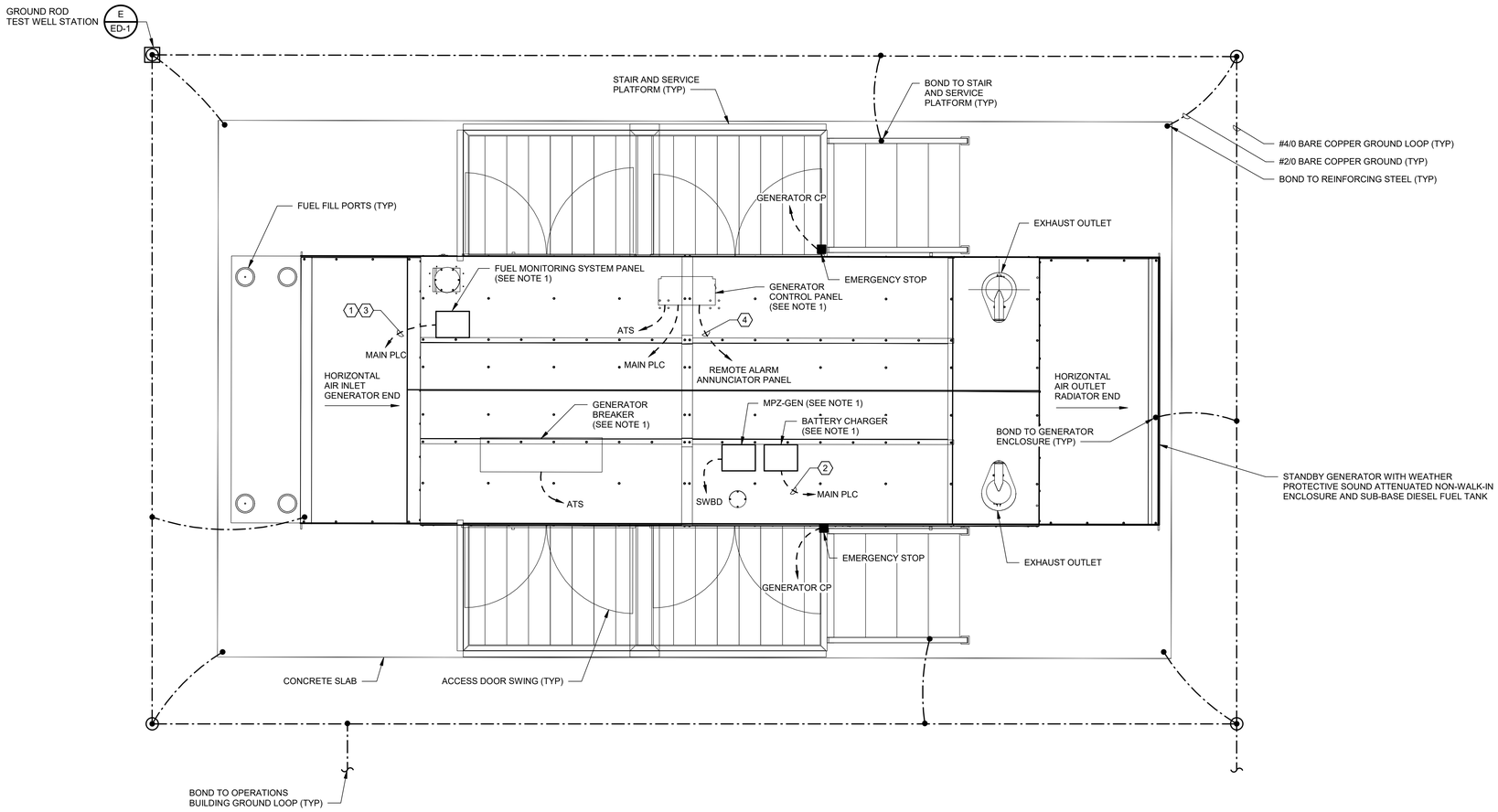
NOTE:

1. COORDINATE LOCATION OF GENERATOR BREAKER, GENERATOR CONTROL PANEL, BATTERY CHARGER, FUEL MONITORING SYSTEM PANEL, MPZ-GEN, ETC. WITH THE APPROVED GENERATOR SHOP DRAWING SUBMITTAL PRIOR TO INSTALLING ANY CONDUITS.

N



CONDUIT AND WIRE LEGEND
(NUMBERS REFERENCE THIS SHEET ONLY)

NO.	DESCRIPTION
1	3/4"C, 8#14, 1#14G
2	3/4"C, 6#14, 1#14G
3	3/4"C, 1-2/C#16TS
4	1"C, W/ WIRING PER MANUFACTURER

PLAN
1/2" = 1'-0"

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. RUCK
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

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VALDOSTA A City Without Limits
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

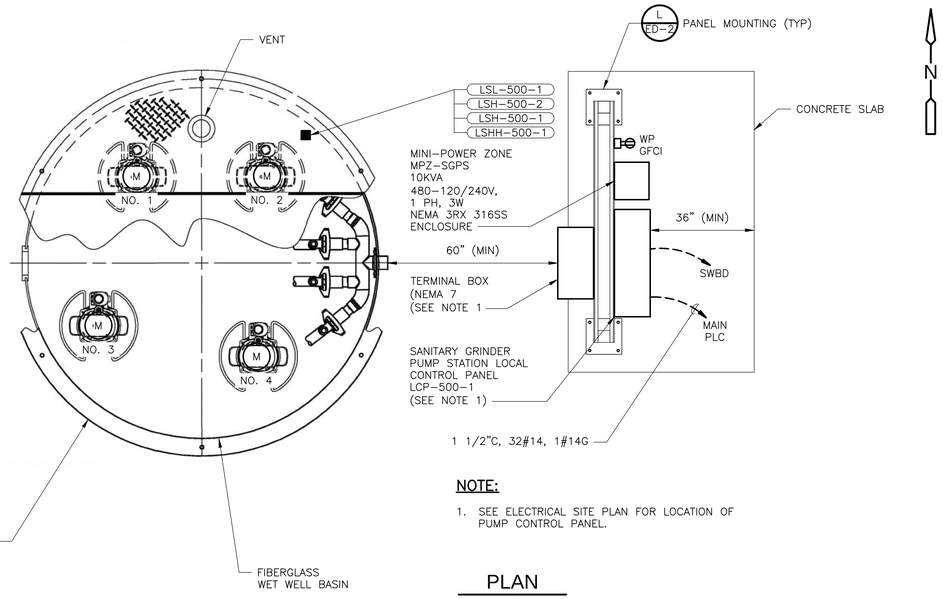
STANDBY GENERATOR
ELECTRICAL PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

PROJECT NO. 20790-289282
FILE NAME: EWZ000OB.RVT

SHEET NO.
E-20

ISSUED FOR BID



NOTE:

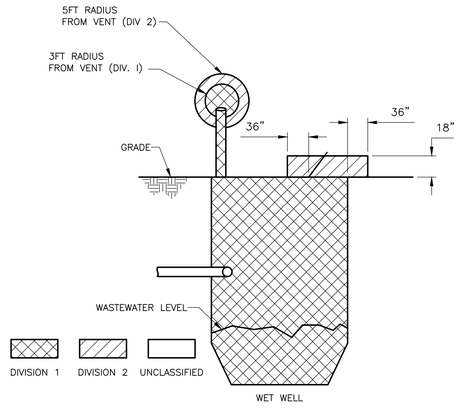
1. SEE ELECTRICAL SITE PLAN FOR LOCATION OF PUMP CONTROL PANEL.

PLAN
NTS

NEC HAZARDOUS AREAS:

THERE ARE MULTIPLE LOCATIONS WITHIN THE FACILITY THAT ARE CLASSIFIED AS NEC CLASS 1 HAZARDOUS AREAS IN ACCORDANCE WITH NFPA 820. THE FOLLOWING ARE THE NEC HAZARDOUS AREAS AND THEIR BOUNDARIES THAT THE CONTRACTOR IS ANTICIPATED TO ENCOUNTER ON THIS PROJECT.

SANITARY GRINDER PUMP STATION WET WELL:
CLASS I, DIVISION 1: SEE DETAIL 'A' BELOW.
CODE REFERENCE: TABLE 4.2.2, ROW 14(a).



VENTILATION (A): NO VENTILATION OR VENTILATED AT LESS THAN 12 AIR CHANGES PER HOUR

PUMP STATION WET WELL HAZARDOUS AREA CLASSIFICATION

DETAIL 'A'
NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SANITARY GRINDER PUMP STATION
ELECTRICAL PLAN

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY JR.

PROJECT NO. 20790-289282
FILE NAME: E021PSPL.DWG
SHEET NO.
E-21

ISSUED FOR BID

PANELBOARD LP-OB1 (NOTE 8)

175 AMP MAIN BREAKER — LOCATION: **ELECTRICAL ROOM**
225 AMP BUS RATING **42** POLES **10** KA SHORT CIRCUIT RATING — ENCLOSURE RATING: **NEMA 1 ,**
208/120 VOLTS **3** PHASE **4** WIRE **60 Hz.** ELECTRONIC GRADE: **NO** — MOUNTING: **SURFACE**

CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES	CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES
1		2.35					2	AHU-1 (CKT 1)	5			60 /2	9
3	LIGHTING PANELBOARD LP-OB2		3.08		60 /3		4			5			
5				1.20			6	PMP-1			0.1	20 /1	7
7	LTG - ELECTRICAL RM	1.0			20 /1	7	8	AHU-1 (CKT 2)	2			25 /2	6
9	LTG - CONTROL RM		0.4		20 /1	7	10			2			
11	LTG - OFFICE			0.2	20 /1	7	12	EF-1			0.2	20 /1	7
13	LTG - LAB	0.3			20 /1	7	14	HP-1	2.0			40 /2	10
15	LTG - SHOWER/TOILET/MECH RM		0.4		20 /1	7	16			2.0			
17	LTG - EXTERIOR OPS BLDG			0.2	20 /1	7	18	SPARE			0	20 /1	
19	LTG - EXTERIOR OPS BLDG	0.2			20 /1	7	20	ATC-1 PANEL	0.3			20 /1	7
21	RECPT - ELECTRICAL RM		1.44		20 /1	7	22	FUEL LEAK/LEVEL DETECTION PANEL		0.1		20 /1	7
23	RECPT - CONTROL RM			1.08	20 /1	7	24	RECPT - CONTROL RM MICROWAVE			1.0	20 /1	7
25	RECPT - CONTROL RM	0.72			20 /1	7	26	RECPT - BOTTLE FILL STATION	0.1			20 /1	7
27	RECPT - CONTROL RM		1.08		20 /1	7	28	SPARE		0		20 /1	
29	RECPT - OFFICE			0.72	20 /1	7	30	SPARE			0	20 /1	
31	RECPT - OFFICE	0.36			20 /1	7	32	SPARE	0			20 /1	
33	RECPT - LAB		0.9		20 /1	7	34	SPARE		0		20 /1	
35	RECPT - LAB			0.72	20 /1	7	36	SPARE			0	20 /1	
37	RECPT - SHOWER/TOILET/MECH RM	1.08			20 /1	7	38	SPARE	0			20 /1	
39	RECPT - CONTROL RM COPIER		0.3		20 /1	7	40	SPARE		0		20 /1	
41	RECPT - CONTROL FRG			0.3	20 /1	7	42	SPARE			0	20 /1	
	TOTAL PHASE KVA THIS SIDE	5.81	7.6	4.42				TOTAL PHASE KVA THIS SIDE	9.4	9.1	1.3		
								TOTAL KVA PER PHASE	15.21	16.7	5.72		
								TOTAL THREE PHASE KVA		37.63			

NOTES:
1. PROVIDE LOCKING HARDWARE
3. 30 ma GFI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION ONLY (HEAT TRACE)
5. BRANCH CIRCUIT WIRING: 3/4"C, 3#12 & 1#12G
7. BRANCH CIRCUIT WIRING: 3/4"C, 2#12 & 1#12G
9. BRANCH CIRCUIT WIRING: 1 1/4"C, 2#4 & 1#10G

NOTES CONT.:
2. 5 ma GROUND FAULT INTERRUPTER (GFI) CIRCUIT BREAKER
4. PROVIDE LOCKING HARDWARE & PAINT BREAKER HANDLE RED (FACP)
6. BRANCH CIRCUIT WIRING: 3/4"C, 2#10 & 1#10G
8. PROVIDE INTEGRAL SPD
10. BRANCH CIRCUIT WIRING: 1"C, 2#8, 1#10G

PANELBOARD LP-OB2

175 AMP MAIN LUG ONLY — LOCATION: **ELECTRICAL ROOM**
225 AMP BUS RATING **42** POLES **10** KA SHORT CIRCUIT RATING — ENCLOSURE RATING: **NEMA 1 ,**
208/120 VOLTS **3** PHASE **4** WIRE **60 Hz.** ELECTRONIC GRADE: **NO** — MOUNTING: **SURFACE**

CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES	CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES
1	MAIN PLC	0.5			20 /1	7	2	LIGHTING - HSPS NO. 1	0.14			20 /1	7
3	SERVER/FOPP RACK UPS		1.0		20 /1	7	4	RECPT - HSPS NO. 1		0.36		20 /1	7
5	TTC			0.2	20 /1	7	6	LTG - CHEM INJECTION VAULT			0.04	20 /1	7
7	GEN SET REMOTE ANNUCIATOR PNL	0.2			20 /1	7	8	RECPT - CHEM INJECTION VAULT	0.6			20 /1	6
9	AIT-521-1		0.05		20 /1	7	10	LIGHTING - NE ROADWAY		0.56		20 /1	9
11	AIT-521-2			0.05	20 /1	7	12	LIGHTING - NW ROADWAY			0.56	20 /1	9
13	AIT-521-3	0.05			20 /1	7	14	LIGHTING - SE ROADWAY	0.56			20 /1	9
15	CAMERA SYSTEM CONTROL CABINET		0.5		20 /1	7	16	LIGHTING - SW ROADWAY		0.56		20 /1	9
17	CAMERA-1			0.3	20 /1	6	18	SPARE			0	20 /1	
19	CAMERA-2	0.3			20 /1	6	20	SPARE	0			20 /1	
21	FIT-520-1		0.05		20 /1	7	22	SPARE		0		20 /1	
23	FIT-520-X			0.05	20 /1	7	24	SPARE			0	20 /1	
25	SPARE	0			20 /1		26	SPARE	0			20 /1	
27	SPARE		0		20 /1		28	SPARE		0		20 /1	
29	SPARE			0	20 /1		30	SPARE			0	20 /1	
31	SPARE	0			20 /1		32	SPARE	0			20 /1	
33	SPARE		0		20 /1		34	SPARE		0		20 /1	
35	SPARE			0	20 /1		36	SPARE			0	20 /1	
37	SPARE	0			20 /1		38	SPARE	0			20 /1	
39	SPARE		0		20 /1		40	SPARE		0		20 /1	
41	SPARE			0	20 /1		42	SPARE			0	20 /1	
	TOTAL PHASE KVA THIS SIDE	1.05	1.6	0.6				TOTAL PHASE KVA THIS SIDE	1.3	1.48	0.6		
								TOTAL KVA PER PHASE	2.35	3.08	1.2		
								TOTAL THREE PHASE KVA		6.63			

NOTES:
1. PROVIDE LOCKING HARDWARE
3. 30 ma GFI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION ONLY (HEAT TRACE)
5. BRANCH CIRCUIT WIRING: 3/4"C, 3#12 & 1#12G
7. BRANCH CIRCUIT WIRING: 3/4"C, 2#12 & 1#12G
9. BRANCH CIRCUIT WIRING: 1"C, 2#6 & 1#6G

NOTES CONT.:
2. 5 ma GROUND FAULT INTERRUPTER (GFI) CIRCUIT BREAKER
4. PROVIDE LOCKING HARDWARE & PAINT BREAKER HANDLE RED (FACP)
6. BRANCH CIRCUIT WIRING: 3/4"C, 2#10 & 1#10G
8. PROVIDE INTEGRAL SPD
10.

MINI POWER ZONE MPZ-CF

15 KVA 3-PHASE TRANSFORMER **480** VOLT PRIMARY **25 AMP 3 POLE PRIMARY MAIN BREAKER** **65** KA
60 AMP 2 POLE SECONDARY MAIN BREAKER — LOCATION: **CHEMICAL STORAGE AREA**
60 AMP BUS RATING **24** POLES **10** KA SHORT CIRCUIT RATING — ENCLOSURE RATING: **NEMA 4X ,316SS**
208/120 VOLTS **3** PHASE **4** WIRE **60 HZ** ELECTRONIC GRADE: **NO** — MOUNTING: **SURFACE**

CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES	CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES
1	SODIUM HYPOCHLORITE LCP--920-3	0.6			20 /1	1	2	FP-ES/EW-1, FP-ES/EW-2, FP-ES/EW-3	0.54			20 /1	1,3
3	SODIUM HYDROXIDE LCP-930-3		0.9		20 /1	1	4	CHEMICAL PLC		0.3		20 /1	1
5	HYDROFLUOSILICIC ACID LCP-940-2			0.6	20 /1	1	6	SPARE			0	20 /1	
7	BLENDED PHOSPATE LCP-950-1	0.6			20 /1	1	8	SPARE				20 /1	
9	LCP-920-1 & LCP-920-2		0.4		20 /1	1	10	HOT BOX BACKFLOW PREVENTER		1.5		20 /1	1
11	LCP-930-1 & LCP930-2			0.4	20 /1	1	12	HEAT TRACE BOX HT-1			0.5	20 /1	1,3
13	LCP-940-1	0.2			20 /1	1	14	HEAT TRACE BOX HT-2	0.5			20 /1	1,3
15	LIT-920-1		0.05		20 /1	1	16	LIGHTING - CHEM STORAGE AREA		0.5		20 /1	1
17	LIT-920-2			0.05	20 /1	1	18	RECEPTACLES - CHEM STORAGE AREA			1.08	20 /1	1
19	LIT-930-1	0.05			20 /1	1	20	SPARE				20 /1	
21	LIT-940-1		0.05		20 /1	1	22	SPARE				20 /1	
23	LIT-950-1			0.05	20 /1	1	24	SPARE				20 /1	
	TOTAL PHASE KVA THIS SIDE	1.45	1.4	1.1				TOTAL PHASE KVA THIS SIDE	1.04	2.3	1.58		
								TOTAL KVA PER PHASE	2.49	3.7	2.68		
								TOTAL THREE PHASE KVA		8.87			

NOTES:
1. BRANCH CIRCUIT WIRING: 3/4"C, 2#12 & 1#12G
3. 30 ma GFI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION ONLY (HEAT TRACE)
5.
7.

NOTES CONT.:
2. BRANCH CIRCUIT WIRING: 3/4"C, 2#10 & 1#12G
4.
6.
8.

MINI POWER ZONE MPZ-CC1

15 KVA 3-PHASE TRANSFORMER **480** VOLT PRIMARY **25 AMP 3 POLE PRIMARY MAIN BREAKER** **65** KA
60 AMP 3 POLE SECONDARY MAIN BREAKER — LOCATION: **DEGASIFICATION COMPLEX NO. 1**
60 AMP BUS RATING **24** POLES **10** KA SHORT CIRCUIT RATING — ENCLOSURE RATING: **NEMA 4X ,316SS**
208/120 VOLTS **3** PHASE **4** WIRE **60 HZ** ELECTRONIC GRADE: **NO** — MOUNTING: **SURFACE**

CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES	CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES
1	LTG - DEGASIFICATION COMPLEX NO.1	0.49			20 /1	1	2	LIT-455-1	0.05			20 /1	1
3	LTG - DEGASIFICATION COMPLEX NO.1		0.06		20 /1	1	4	AIT-450-1		0.05		20 /1	1
5	RCPT - DEGASIFICATION COMPLEX NO.1			0.54	20 /1	1	6	FSL-450-1			0.05	20 /1	1
7	RCPT - DEGASIFICATION COMPLEX NO.1	0.72			20 /1	1	8	LCP-913-1	0.3			20 /1	1
9	SPARE				20 /1		10	AIT-404-1		0.05		20 /1	
11	SPARE				20 /1		12	SPARE				20 /1	
13	SPARE				20 /1		14	SPARE				20 /1	
15	SPARE				20 /1		16	SPARE				20 /1	
17	SPARE				20 /1		18	SPARE				20 /1	
19	SPARE				20 /1		20	SPARE				20 /1	
21	SPARE				20 /1		22	SPARE				20 /1	
23	SPARE				20 /1		24	SPARE				20 /1	
	TOTAL PHASE KVA THIS SIDE	1.21	0.06	0.54				TOTAL PHASE KVA THIS SIDE	0.35	0.1	0.05		
								TOTAL KVA PER PHASE	1.56	0.16	0.59		
								TOTAL THREE PHASE KVA		2.31			

NOTES:
1. BRANCH CIRCUIT WIRING: 3/4"C, 2#12 & 1#12G
3.
5.
7.

NOTES CONT.:
2. BRANCH CIRCUIT WIRING: 3/4"C, 2#10 & 1#12G
4.
6.
8.

MINI POWER ZONE MPZ-SGPS

10 KVA 1-PHASE TRANSFORMER **480** VOLT PRIMARY **30 AMP 2 POLE PRIMARY MAIN BREAKER** **65** KA
60 AMP 2 POLE SECONDARY MAIN BREAKER — LOCATION: **SANITARY GRINDER PUMP ST**
60 AMP BUS RATING **12** POLES **10** KA SHORT CIRCUIT RATING — ENCLOSURE RATING: **NEMA 4X , 316SS**
120/240 VOLTS SECONDARY **1** PHASE **3** WIRE **60 Hz.** ELECTRONIC GRADE: **NO** — MOUNTING: **SURFACE**

CIRCUIT NO.	DESCRIPTION	LOAD KVA LINE 1	LOAD KVA LINE 2	BREAKER AMPS/ POLES	NOTES	CIRCUIT NO.	DESCRIPTION	LOAD KVA LINE 1	LOAD KVA LINE 2	BREAKER AMPS/ POLES	NOTES
1	SANITARY GRINDER PS LCP-500-1	3.8		50 /2	2	2	SPARE			20 /1	-
3			3.8			4	SPARE			20 /1	-
5	RECEPTACLE	0.18		20 /1	1	6	SPARE			20 /1	-
7	SPARE			20 /1	-	8	SPARE			20 /1	-
9	SPARE			20 /1	-	10	SPARE			20 /1	-
11	SPARE			20 /1	-	12	SPARE			20 /1	-
	TOTAL LINE KVA THIS SIDE	3.98	3.8				TOTAL LINE KVA THIS SIDE	0	0		
							TOTAL KVA PER LINE	3.98	3.8		
							TOTAL KVA		7.78		

NOTES:
1. BRANCH CIRCUIT WIRING: 3/4"C, 2#12 & 1#12G
3.
5.
7.

NOTES CONT.:
2. BRANCH CIRCUIT WIRING: 1"C , 3#6, 1#8G
4.
6.
8.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

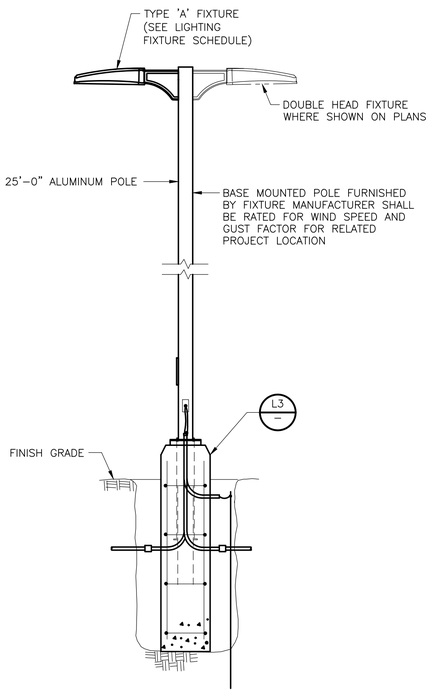
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PANELBOARD SCHEDULES

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

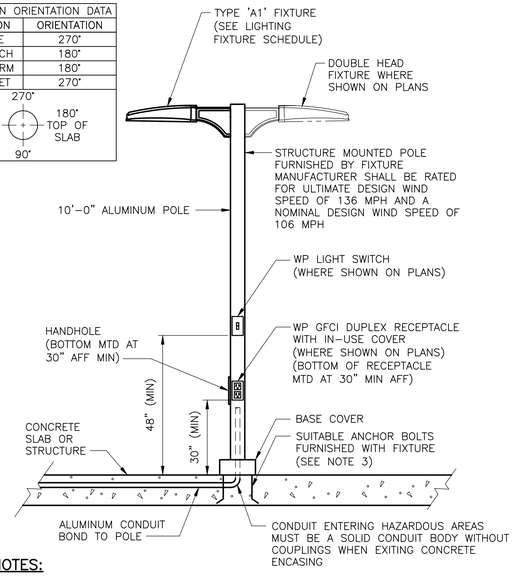
PROJECT NO. 20790-289282
FILE NAME: E022PBSH.DWG
SHEET NO.
E-22

ISSUED FOR BID



POLE MOUNTED LUMINAIRE
DETAIL L1
NTS E-4

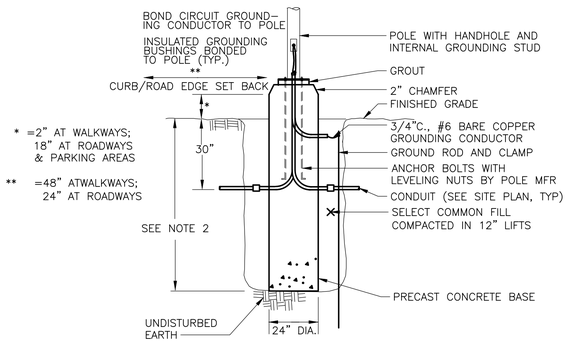
POLE OPTION ORIENTATION DATA	
DESCRIPTION	ORIENTATION
HANDHOLE	270°
LIGHT SWITCH	180°
BRACKET ARM	180°
GFCI OUTLET	270°



NOTES:

1. NOT ALL SEAL OFF FITTINGS SHOWN. PROVIDE EXPLOSION-PROOF SEAL OFF FITTINGS AT ALL AREAS REQUIRED BY THE NEC FOR THE NOTED CLASSIFIED AREA. FITTINGS SHALL BE CAST ALUMINUM.
2. PROVIDE SEAL OFF FITTING AT CONDUIT TO POLE LIGHT.
3. WHERE POLES ARE MOUNTED TO EXISTING STRUCTURES, POLE MANUFACTURE SHALL PROVIDE DESIGN FOR ANCHOR TO MEET THE SPECIFIED WIND RATINGS.
4. REFER TO STRUCTURAL SHEET S-1 FOR WIND DESIGN REQUIREMENTS.

POLE MOUNTED LUMINAIRE
DETAIL L2
NTS –



NOTES:

1. LIGHT POLE OR CCTV CAMERA POLE FOUNDATION SHALL BE A PRECAST CONCRETE FOUNDATION DESIGNED BY A GEORGIA REGISTERED PROFESSIONAL ENGINEER ENGAGED AT THE EXPENSE OF THE CONTRACTOR. DESIGN SPEED SHALL BE IN ACCORDANCE WITH ASCE 7-22 FOR THE PROJECT SPECIFIC SITE. REFER TO STRUCTURAL SHEET S-1 FOR WIND DESIGN REQUIREMENTS. CONTRACTOR SHALL CONFIRM SOIL CONDITIONS WITH A GEORGIA REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER. DESIGN SHALL BE SIGNED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF GEORGIA.
2. EMBEDMENT DEPTH AS REQUIRED PER DELEGATE ENGINEER. MIN. EMBEDMENT IN CLAYEY SOILS 6'-6", MIN EMBEDMENT IN SANDY SOILS 4'-6".
3. REFER TO SPECIFICATIONS FOR MATERIALS.

STANDARD LIGHTING AND CCTV CAMERA BASE
DETAIL L3
NTS –

LIGHTING FIXTURE SCHEDULE

TYPE	WATT	DESCRIPTION	MFR (OR APPROVED EQUAL)
A	102	LED AREA LUMINAIRE; (13,763 LUMENS); DIE CAST ALUMINUM HOUSING; NATURAL ALUMINUM FINISH; UNIVERSAL VOLTAGE (120-277V); CORROSION RESISTANT HARDWARE; 1050mA HIGH-PERFORMANCE LED DRIVER; TYPE III MEDIUM LIGHT DISTRIBUTION; 4000K, 70CRI; ROUND POLE PLATE ADAPTER; 0-10V DIMMING DRIVER; PIR CONTROL (MOTION SENSOR WITH INTEGRAL PHOTOCELL); UL LISTED FOR WET LOCATIONS; LIGHT ENGINES IP66 RATED; 5 YEAR WARRANTY	LITHONIA LIGHTING - D SERIES SIZE 1: DSX1 LED P3 40K 70CRI T3M MVOLT RPA PIR DNAXD SEE NOTES 1 AND 3
A1	45	LED AREA LUMINAIRE; (6,180 LUMENS); DIE CAST ALUMINUM HOUSING; NATURAL ALUMINUM FINISH; UNIVERSAL VOLTAGE (120-277V); CORROSION RESISTANT HARDWARE; 700mA HIGH-PERFORMANCE LED DRIVER; TYPE III MEDIUM LIGHT DISTRIBUTION; 4000K, 70CRI; SQUARE POLE MOUNTING; 0-10V DIMMING DRIVER; PIR CONTROL (MOTION SENSOR WITH INTEGRAL PHOTOCELL); UL LISTED FOR WET LOCATIONS; LIGHT ENGINES IP66 RATED; 5 YEAR WARRANTY	LITHONIA LIGHTING - D SERIES SIZE 0: DSX1 LED P2 40K 70CRI T3M MVOLT SPA PIR DNAXD SEE NOTES 2 AND 3
B	39.8	LOW PROFILE LED WRAPAROUND 4' LUMINARIE; 4,800 LUMENS; 82CRI; 4000K; CURVED, SMOOTH LENS/DIFFUSER; MVOLT; STANDARD PRE-PAINT WHITE FINISH; CABLE GRIPPER KIT, 72 INCH F2 CEILING TYPE; KIT WITH POWER FEED 72 INCH F2 CEILING TYPE; KIT WITH EMERGENCY POWER FEED 72 INCH F2 CEILING TYPE; SUITABLE FOR DAMP LOCATION; 5-YEAR LIMITED WARRANTY	ACUITY BRAND LITHONIA LIGHTING: BLWP PART NO. BLWP4-48L-ADSM-MVOLT-LP840
B1	39.8	SAME AS TYPE 'B' ABOVE WITH A EM SELF-DIAGNOSTIC BATTERY PACK, 10W CONSTANT POWER	ACUITY BRAND LITHONIA LIGHTING: BLWP PART NO. BLWP4-48L-ADSM-MVOLT-LP840-E10WLCP
C	26.5	2'x2' LED LUMINARIE; 3,300 LUMENS; 82CRI; 4000K; SMOOTH REFLECTOR FIXTURE STYLE; STATIC AIR FUNCTION; CURVED, SMOOTH DIFFUSER; DIMS TO 10% DRIVER; MVOLT (120-277); 0-10V DIMMING DRIVER; CSA CERTIFIED; IC RATED; DLC QUAIFIED; 5-YEAR LIMITED WARRANTY.	ACUITY BRAND LITHONIA LIGHTING: 2BLT2 PART NO. 2BLT2-33L-ADSM-GZ10-LP840
C1	26.5	SAME AS TYPE 'C' ABOVE WITH A 700 NOMINAL LUMEN BATTERY PACK	ACUITY BRAND LITHONIA LIGHTING: 2BLT2 PART NO. 2BLT2-33L-ADSM-GZ10-LP840-EL7L
D	10.4	6" OPEN LED NON-IC NEW CONSTRUCTION DOWNLIGHT LUMINARIE; 1,000 LUMENS; 80CRI; 4000K; CLEAR TRIM COLOR; SEMI-SPECULAR TRIM FINISH; WHITE FLANGE COLOR; MULTI-VOLT; WET LOCATION STANDARD (COVERED CEILING); IP55 RATED; 5-YEAR LIMITED WARRANTY.	ACUITY BRAND LITHONIA LIGHTING: LDN6 STATIC WHITE PART NO. LDN6-40/10-L06-AR-LSS-TRW-MVOLT
D1	10.4	SAME AS TYPE 'D' ABOVE WITH A 10W EMERGENCY BATTERY PACK	ACUITY BRAND LITHONIA LIGHTING: LDN6 STATIC WHITE PART NO. LDN6-40/10-LOD-AR-LSS-TRW-MVOLT-EL
E	43.9	LOW PROFILE LED WRAPAROUND 2' LUMINARIE; 4,800 LUMENS; 82CRI; 4000K; CURVED, SMOOTH LENS/DIFFUSER; MVOLT; STANDARD PRE-PAINT WHITE FINISH; CABLE GRIPPER KIT, 72 INCH F2 CEILING TYPE; KIT WITH POWER FEED 72 INCH F2 CEILING TYPE; KIT WITH EMERGENCY POWER FEED 72 INCH F2 CEILING TYPE; SUITABLE FOR DAMP LOCATION; EM SELF-DIAGNOSTIC BATTERY PACK, 10W CONSTANT POWER; 5-YEAR LIMITED WARRANTY	ACUITY BRAND LITHONIA LIGHTING: BLWP PART NO. BLWP2-48L-ADSM-MVOLT-LP840
F	52	LED EMERGENCY SCONCE; 5477 NOMINAL LUMENS; 70 CRI, 4,000K; WALL MOUNTED FULL CUTOFF FIXTURE; DIE-CAST ALUMINUM HOUSING AND DOOR FRAME; MEMORY RETENTIVE GASKET SEALS; STAINLESS STEEL HARDWARE; CLEAR GLASS LENS; 32 LED's FOR NORMAL AND EMERGENCY MODE; TYPE 3 LIGHT DISTRIBUTION, POLYESTER POWDERCOAT MEDIUM GRAY FINISH; 530mA LED DRIVERS; LED THERMAL MANAGEMENT; SELF-CONTAINED LED EMERGENCY BATTERY PACK; 120V; UL LISTED WET LOCATION; PHOTOCELL; 5 YEAR WARRANTY	PHILIPS GARDCO: 121 SCONCE SERIES 121-032L-530-NW-G3-3-EBPC-120-PCB-F1-MGY
G	23	LED WALL LUMINAIRE; 3,250 NOMINAL LUMENS; 4000K; TWO-PIECE DIE-CAST ALUMINUM HOUSING; MULTI-VOLT (120-277V) PHOTOCELL, BUTTON TYPE; XXXXX FINISH; CSA CERTIFIED TO U.S. AND CANADIAN STANDARDS; IP65 RATED FOR OUTDOOR APPLICATIONS; 5-YEAR LIMITED WARRANTY	LITHONIA LIGHTING: TWH LED SERIES PART #: TWX2-P1-40K-MVOLT (120-277V)-PE-XXXX
H	40	LED HIGH BAY/LOW BAY MARINE LUMINARIE; 5,000 LUMENS; 4000K; 70 CRI; COPPER-FREE CAST ALUMINUM FINISH; NATURAL ALUMINUM FINISH; CLEAR TEMPERED GLASS LENS; CAPTIVE STANLESS STEEL FASTENERS; YOKE MOUNT (1/2" HUB); TYPE III OPTICS; 120-277VAC (20/60Hz); UL 1598; UL 1598A; IP66; NEMA 4X; 5-YEAR LIMITED WARRANTY.	ACUITY BRAND LITHONIA LIGHTING: LE302 PART NO. LE302-L1-V1-4-F4-T3
H1	40	SAME AS TYPE 'H' ABOVE WITH A BATTERY/DRIVER BACKUP, 90MIN. UL924	ACUITY BRAND LITHONIA LIGHTING: LE302 PART NO. LE302-L1-V1-4-F4-T3
J	14	SPECIAL PURPOSE ROUGHLYTE LED; 1,390 NOMINAL LUMENS; 70 CRI, 4,000K; DIE CAST ALUMINUM HOUSING; FROSTED GLOBE; DIE CAST ALUMINUM GUARD; SHOT BLASTED ALUMINUM FINISH; HIGH QUAILTY LED AND LED BOARD; WALL MOUNTED; UNIVERSAL VOLTAGE (120-277V); UL LISTED SUITABLE FOR WET LOCATIONS; 5 YEAR WARRANTY	ACUITY BRAND LITHONIA LIGHTING: LE302 PART NO. LE302-L1-V1-4-F4-T3
K	54	LED WALL LUMINAIRE; 6,850 NOMINAL LUMENS; 4000K; TWO-PIECE DIE-CAST ALUMINUM HOUSING; MULTI-VOLT (120-277V) PHOTOCELL, BUTTON TYPE; XXXXX FINISH; CSA CERTIFIED TO U.S. AND CANADIAN STANDARDS; IP65 RATED FOR OUTDOOR APPLICATIONS; 5-YEAR LIMITED WARRANTY	LITHONIA LIGHTING: TWH LED SERIES PART #: TWX2-P4-40K-MVOLT (120-277V)-PE-XXXX
L	15.2	LED SWITCHABLE WHITE, DIMMABLE UNDERCABINET LUMINAIRE; 1,166 NOMINAL LUMENS; 90 CRI, 4,000K; 120V, 60Hz DRIVER; 30 INCH LENGTH; WHITE FINISH; cULus LISTED; LISTED FOR DAMP LOCATIONS	ACUITY BRAND JUNO: UPLD PART NO. UPLD-30IN-SWW4-90CRI-WH
EX	3.8	EXIT SIGN W/ DIE CAST ALUMINUM HOUSING, WHITE BODY, BRUSHED ALUMINUM FACE, RED LED LAMPS, RED POLYCARBONATE LENS W/ PRISMATIC DIFFUSER, SEALED NICKEL CADMIUM BATTERY, FULLY AUTOMATIC SOLID STATE CHARGER, FLAT OR OPENIN MOUNTED AS REQUIRED, 120V, 12VDC.	PHILIPS CHLORIDE: 55 LINE SERIES PART NO. 55L-3-W-R

NOTES:

1. FIXTURE MANUFACTURER SHALL FURNISH A 25' ROUND TAPERED ALUMINUM POLE. POLE SHALL HAVE A CLEAR ANODIZED FINISH AND MEET WIND LOADS AND GUST FACTOR FOR RELATED PROJECT LOCATION. POLE SHALL BE MOUNTED TO A CONCRETE BASE PER DETAIL 'L1'. SUITABLE ANCHOR BOLTS, BASE COVER, GROUND LUG, AND VIBRATION PAD FURNISHED WITH POLE.
2. FIXTURE MANUFACTURER SHALL FURNISH A 10' SQUARE ALUMINUM POLE. POLE SHALL HAVE A CLEAR ANODIZED FINISH AND MEET WIND LOADS AND GUST FACTOR FOR RELATED PROJECT LOCATION. POLE SHALL BE MOUNTED TO A CONCRETE SLAB OR STRUCTURE PER DETAIL 'L2'. SUITABLE ANCHOR BOLTS, BASE COVER, GROUND LUG, AND VIBRATION PAD FURNISHED WITH POLE.
3. PIR INTEGRATED CONTROL MOTION SENSOR WITH ON-BOARD PHOTOCELL AND FIELD ADJUSTABLE PROGRAMMING SUITABLE FOR 8'-40' MOUNTING HEIGHTS. LUMINAIRES DIM WHEN NO OCCUPANCY IS DETECTED.

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

LIGHT FIXTURE SCHEDULE AND DETAILS

PROJECT NO. 20790-289282
FILE NAME: E023NFLF.DWG

SHEET NO.
E-23

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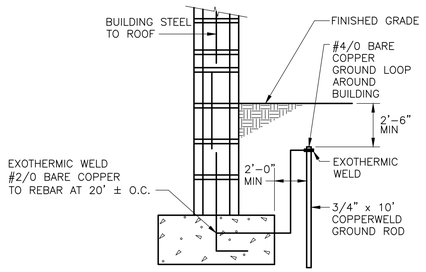
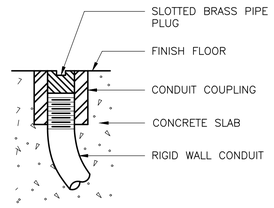


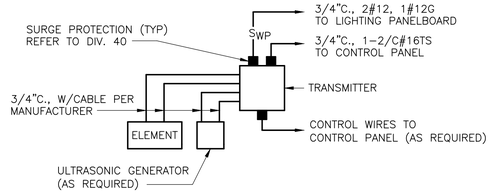
BULIDING STRUCTURE BONDING

DETAIL A / – — NTS



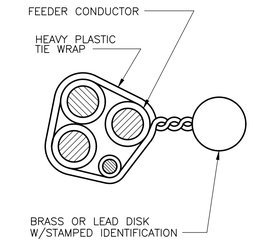
CONDUIT TERMINATION STUB OUT

DETAIL B / – — NTS



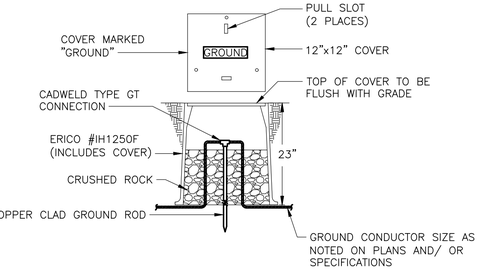
TYPICAL TRANSMITTER

DETAIL C / – — NTS



U.G. CABLE TAG

DETAIL D / – — NTS

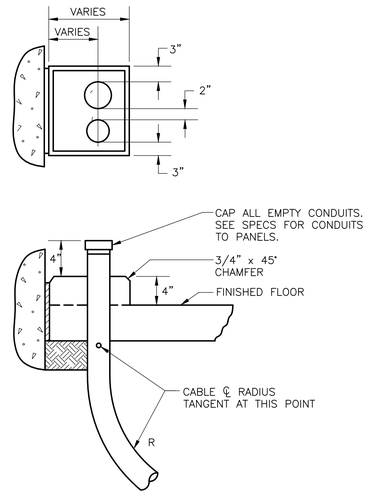


NOTE:

1. TO IMPROVE SYSTEM RESISTANCE, ERICO GEM MAY BE USED AS A BACKFILL MATERIAL IN AN AUGERED HOLE.

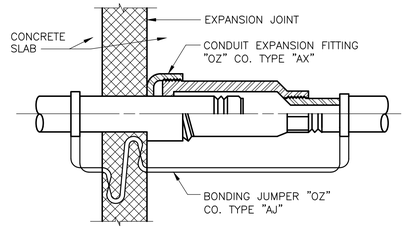
GROUND ROD TEST WELL STATION

DETAIL E / – — NTS



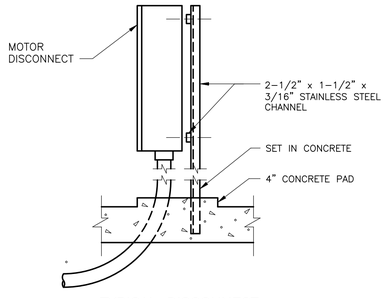
TYPICAL CONDUIT THROUGH SLAB

DETAIL F / – — NTS



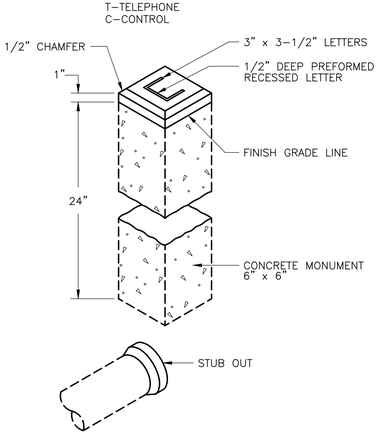
EXPANSION FITTING

DETAIL G / – — NTS



TYPICAL DISCONNECT

DETAIL H / – — NTS



CONDUIT STUB MONUMENT

DETAIL J / – — NTS

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL DETAILS I

PROJECT NO. 20790-289282
FILE NAME: ED01NFDT.DWG

SHEET NO.
ED-1

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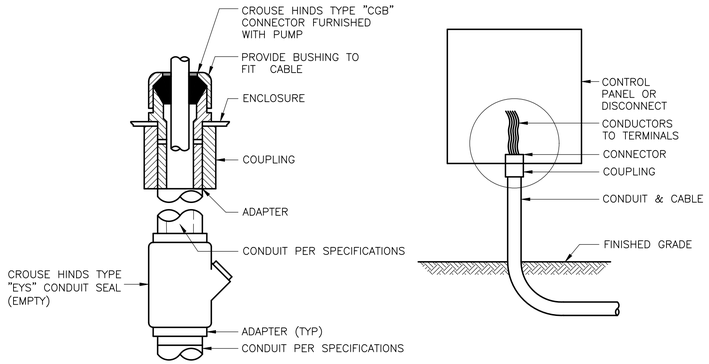
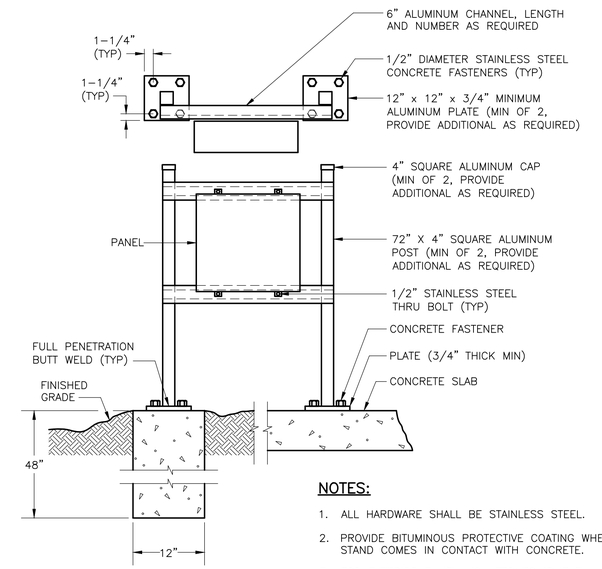


WATER–TIGHT CONNECTION

DETAIL K

NTS



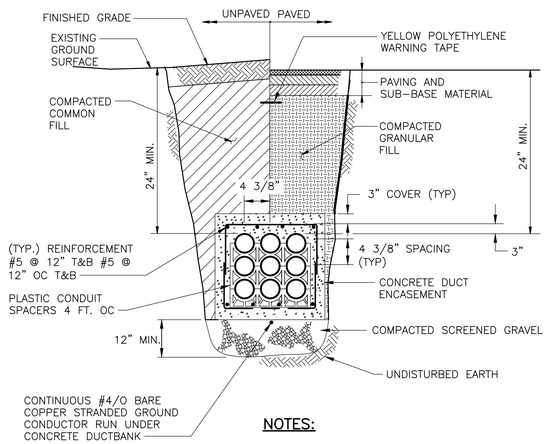
NOTES:

1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. PROVIDE BITUMINOUS PROTECTIVE COATING WHERE STAND COMES IN CONTACT WITH CONCRETE.
3. FOR EXTERIOR PANEL MOUNTED EQUIPMENT AND RACK CONSTRUCTION, REFER TO STRUCTURAL DRAWING S–1 FOR WIND DESIGN REQUIREMENTS AND PROVIDE ANCHORAGE TO CONCRETE ACCORDINGLY.

PANEL MOUNTING

DETAIL L

NTS



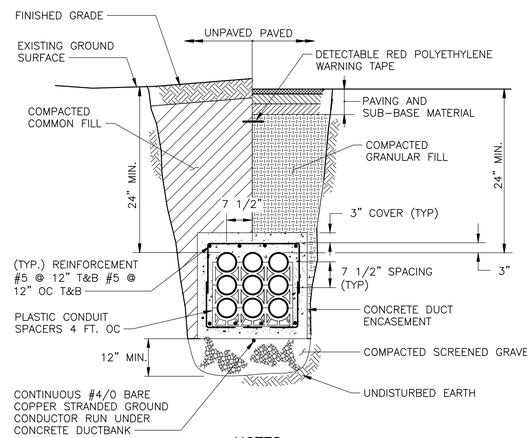
NOTES:

1. DUCT BANKS SHALL BE REINFORCED WHEN INSTALLED OVER NEW PIPELINES OR UNDER ROADWAYS, PARKING LOTS OR ANY AREA SUBJECT TO VEHICULAR TRAFFIC. INSTALL REINFORCING BARS AS SHOWN ON THE DRAWINGS, EXTENDING 10–FT. BEYOND AREA NEEDING PROTECTION.
2. REFER TO SPECIFICATIONS FOR EXCAVATION REQUIREMENTS.

UNDERGROUND SIGNAL DUCTBANK

DETAIL M

N.T.S.



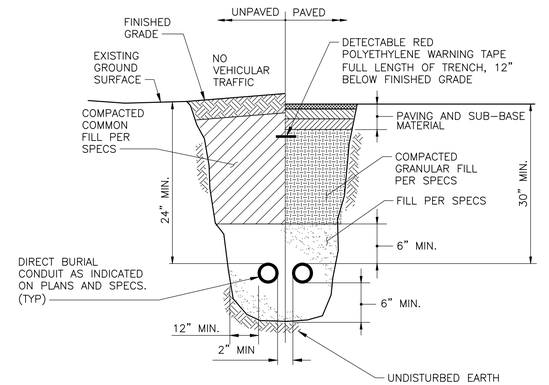
NOTES:

1. DUCT BANKS SHALL BE REINFORCED WHEN INSTALLED OVER NEW PIPELINES OR UNDER ROADWAYS, PARKING LOTS OR ANY AREA SUBJECT TO VEHICULAR TRAFFIC. INSTALL REINFORCING BARS AS SHOWN ON THE DRAWINGS, EXTENDING 10–FT. BEYOND AREA NEEDING PROTECTION.
2. REFER TO SPECIFICATIONS FOR EXCAVATION REQUIREMENTS.

UNDERGROUND POWER DUCTBANK

DETAIL N

N.T.S.



TYPICAL DIRECT BURIED CONDUIT INSTALLATION

DETAIL R

NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

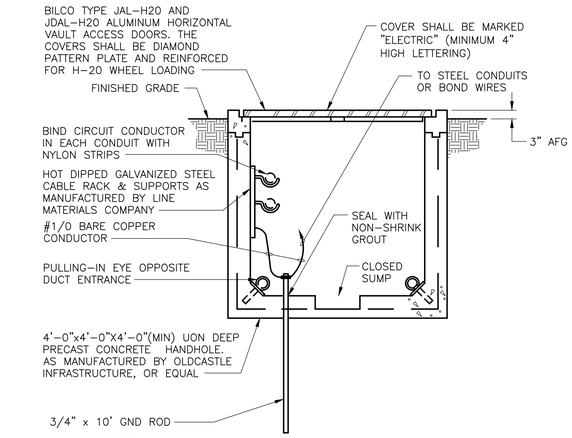
ELECTRICAL DETAILS II

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER PERKER J. PERRY JR.

PROJECT NO. 20790–289282
FILE NAME: ED02NFDT.DWG

SHEET NO.
ED-2

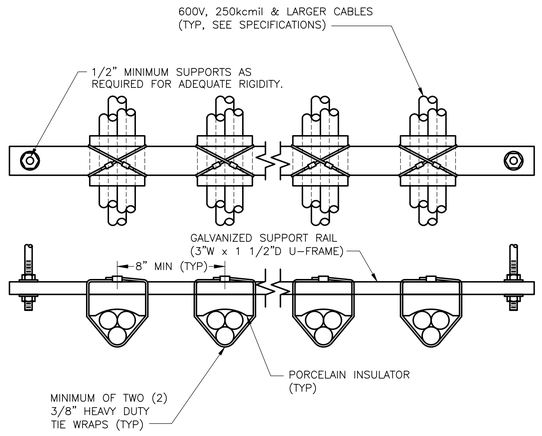
ISSUED FOR BID



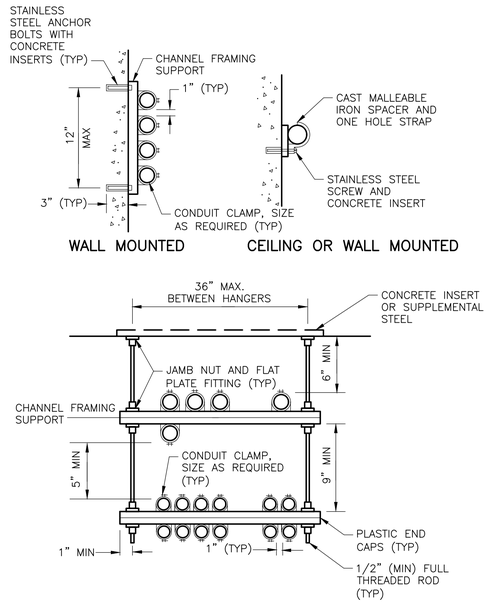
HANDHOLE NOTES:

1. DO NOT SPLICE CABLES IN HANDHOLES UNLESS OTHERWISE NOTED.
2. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
3. HANDHOLE TO BE PLACED ON 6" BASE OF NO. 57 STONE.

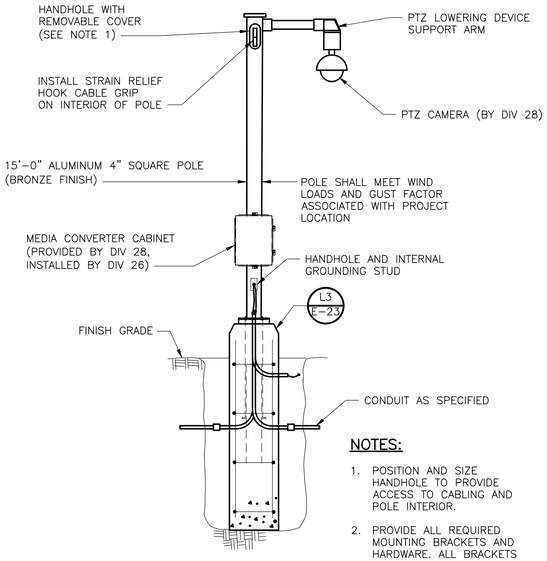
HANDHOLE
DETAIL U
NTS



HANDHOLE CABLE SUPPORT
DETAIL V
NTS



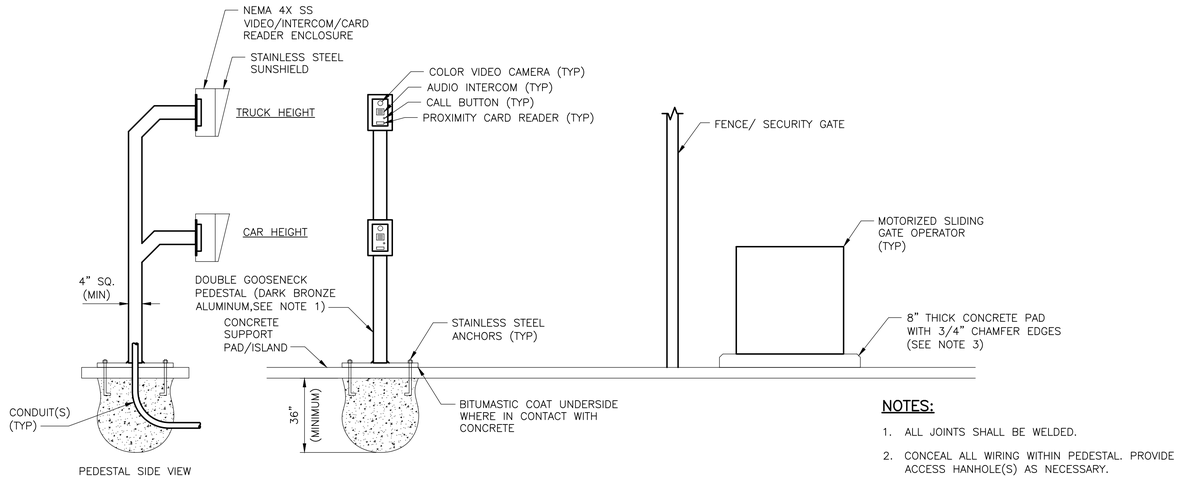
CONDUIT MOUNTING
DETAIL W
NTS



NOTES:

1. POSITION AND SIZE HANDHOLE TO PROVIDE ACCESS TO CABLING AND POLE INTERIOR.
2. PROVIDE ALL REQUIRED MOUNTING BRACKETS AND HARDWARE. ALL BRACKETS AND HARDWARE SHALL BE 316 STAINLESS STEEL.

PTZ CAMERA POLE
DETAIL X
NTS



NOTES:

1. ALL JOINTS SHALL BE WELDED.
2. CONCEAL ALL WIRING WITHIN PEDESTAL. PROVIDE ACCESS HANHOLE(S) AS NECESSARY.
3. REFER TO STRUCTURAL SPECIFICATIONS/DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.
4. PROVIDE (2) CARD READER/INTERCOM/VIDEO CAMERA ENCLOSURES. ONE AT A HEIGHT SUITABLE FOR CARS AND ANOTHER SUITABLE FOR TRUCKS.
5. REFER TO SPECIFICATION SECTION 323113 FOR THE CARD READER/INTERCOM/VIDEO CAMERA REQUIREMENTS.

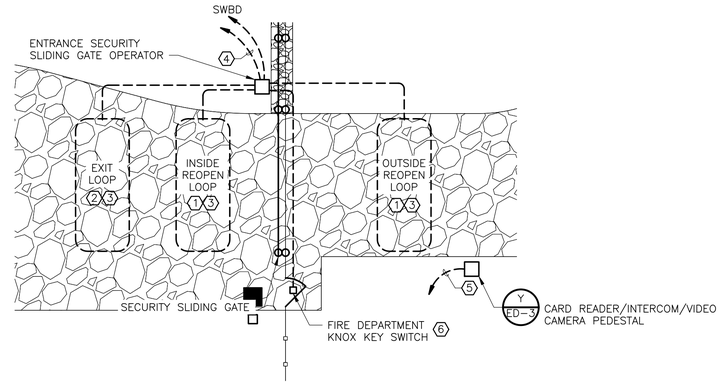
CARD READER/INTERCOM/VIDEO CAMERA PEDESTAL
DETAIL Y
NTS

NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRES, CONDUITS, AND ALL NECESSARY ANCILLARY MATERIALS FOR A COMPLETELY OPERATIONAL SYSTEM. REFER TO SECTION 323113 FOR GATE, GATE OPERATOR, AND CONTROL DEVICES REQUIREMENTS.
2. CONTRACTOR SHALL COORDINATE WITH ACCESS CONTROL SYSTEM PROVIDER TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM.
3. COORDINATE SYSTEM LOCATION WITH EXACT SECURITY GATE LOCATION.
4. COORDINATE INSTALLATION OF SYSTEM WITH CONSTRUCTION OF ROADWAY. SAWCUT ROADWAY FOR SAFETY/EXIT LOOPS AND PATCH ROADWAY ACCORDINGLY.
5. ALL STRUT, JUNCTION BOXES, AND ASSOCIATED HARDWARE SHALL BE 316 STAINLESS STEEL.

KEYED NOTES:

1. PROVIDE SAFETY LOOPS: LOOPS ARE INTENDED TO KEEP GATE OPEN WHILE VEHICLES ARE AT THE GATE AND ALLOWS THE GATES TO CLOSE ONLY AFTER THE VEHICLES LEAVE THE AREA. COORDINATE LOCATION WITH GATE MANUFACTURER RECOMMENDATIONS. LOOPS SHALL BE SIZED FOR THE WIDTH OF THE ROADWAY.
2. PROVIDE EXIT LOOP: POSITION AS REQUIRED ON SITE WITH MINIMUM SPACING OF 6FT. BETWEEN INNER SAFETY AND FREE EXIT LOOP. LOOP SHALL BE SIZED FOR THE WIDTH OF THE ROADWAY.
3. PROVIDE INSIDE/OUTSIDE SAFETY LOOP DETECTORS AND EXIT LOOP DETECTOR, IN PAVEMENT. ROUTE 1" CONDUIT TO EACH LOOP WITH NUMBER OF CONDUCTORS PER MANUFACTURER REQUIREMENTS.
4. PROVIDE 1"C., 4#14, 1#14G OR MANUFACTURER RECOMMENDED CABLE FROM ACCESS CONTROL SYSTEM TO GATE OPERATOR.
5. COORDINATE WITH ACCESS CONTROL SYSTEM PROVIDER ON CABLE REQUIREMENTS FOR POWER SUPPLY AND COMMUNICATIONS. AS A MINIMUM PROVIDE CAT5E CABLE.
6. PROVIDE ALL CONDUIT/WIRING REQUIRED FOR KNOX KEY SWITCH OVERRIDE.



SECURITY SLIDING GATE
DETAIL Z
NTS

GEORGIA REGISTERED No. 036494 PROFESSIONAL ENGINEER SPENCER J. PERRY, JR.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. SANCHEZ
DRAWN BY: R. CARTER
SHEET CHK'D BY: S. PERRY
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: S. PERRY
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

ELECTRICAL DETAILS III

PROJECT NO. 20790–289282
FILE NAME: ED03NFDT.DWG

SHEET NO.
ED-3

ISSUED FOR BID

XREFs: [CDMS_2436, CEP001SS, CWP002ST, EWP000ST, CWP001GD, NWP001PS, MWP002PS, AWZ0000B – 3D View – 3D Process Export, MWP001CH, R_MWP001CW, SWZ000HS – HSPS Plan, M006STPL, M011PSPL, R_MWP001IV, M014PSSC] Images: []
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GENERAL INSTRUMENT OR FUNCTION SYMBOLS

SHARED DISPLAY/ SHARED CONTROL				
PRIMARY CHOICE	SECONDARY CHOICE	COMPUTER SOFTWARE	DISCRETE	LOCATION AND ACCESSIBILITY
◯	◇	⬡	◯	FIELD MOUNTED AND NORMALLY OPERATOR ACCESSIBLE
◯	◇	⬡	◯	PRIMARY CONTROL PANEL MOUNTED AND NORMALLY OPERATOR ACCESSIBLE
◯	◇	⬡	◯	PRIMARY CONTROL PANEL MOUNTED AND NOT NORMALLY OPERATOR ACCESSIBLE
◯	◇	⬡	◯	SECONDARY CONTROL PANEL MOUNTED AND NORMALLY OPERATOR ACCESSIBLE
◯	◇	⬡	◯	SECONDARY CONTROL PANEL MOUNTED AND NOT NORMALLY OPERATOR ACCESSIBLE

◯◯ INSTRUMENTS SHARING COMMON HOUSING

◯ PILOT LIGHT

MISCELLANEOUS SYMBOLS

MOTOR

MCC — INDICATES INTERLOCK OR LOGIC IN A MOTOR CONTROL CENTER

I — INDICATES GENERAL OR MISCELLANEOUS HARDWIRED INTERLOCK

MS — MOTOR STARTER

SCR — SILICONE CONTROL RECTIFIER

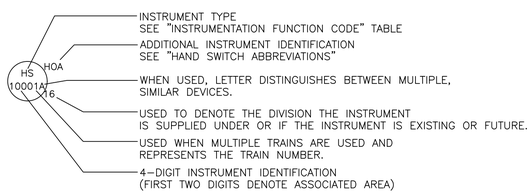
VFD — VARIABLE FREQUENCY DRIVE

P — PURGE OR FLUSHING DEVICE

M — MOTOR

M — VFD MOTOR

TYPICAL TAG NUMBERS & DESIGNATION



HAND SWITCH ABBREVIATIONS

AO = AUTO/OFF
AM = AUTO/MANUAL
CM = COMPUTER/MANUAL
CL = COMPUTER/LOCAL
E-STOP = EMERGENCY STOP
FR = FORWARD/REVERSE
FOR = FORWARD/OFF/REVERSE
FS = FAST SLOW
FOS = FAST/OFF/SLOW
HOA = HAND/OFF/AUTO
LLS = LEAD/LAG/STANDBY
LOC = LOCAL/OFF/COMPUTER
LOR = LOCAL/OFF/REMOTE
LOS = LOCKOUT/STOP
LA = LOCAL/AUTO
LR = LOCAL/REMOTE
OC = OPEN/CLOSE
OCA = OPEN/CLOSE/AUTO
OO = ON/OFF
OOA = ON/OFF/AUTO
OSC = OPEN/STOP/CLOSE
RSL = RAISE/STOP/LOWER
SS = START/STOP
SOR = START/OFF/RESET

INSTRUMENTATION FUNCTION CODE

	FIRST LETTERS		SUCCEEDING LETTERS		
	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
	MEASURED/INITIATING VARIABLE	VARIABLE MODIFIER	READOUT/PASSIVE FUNCTION	OUTPUT/ACTIVE FUNCTION	FUNCTION MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE			CONTROL	CLOSED
D	USER'S CHOICE	DIFFERENCE, DIFFERENTIAL			DEVIATION
E	VOLTAGE		SENSOR, PRIMARY ELEMENT		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE		GLASS, GAUGE, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT		INDICATE		
J	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE				MIDDLE, INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
P	PRESSURE		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE, TOTALIZE	INTEGRATE, TOTALIZE		
R	RADIATION		RECORD		RUN
S	SPEED, FREQUENCY	SAFETY		SWITCH	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
V	VIBRATION, MECHANICAL, ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL, PROBE		
X	UNCLASSIFIED (1)	X-AXIS	ACCESSORY DEVICES, UNCLASSIFIED (1)	UNCLASSIFIED (1)	UNCLASSIFIED (1)
Y	EVENT, STATE, PRESENCE	Y-AXIS		AUXILIARY DEVICES	
Z	POSITION, DIMENSION	Z-AXIS, SAFETY INSTRUMENT SYSTEM		DRIVER, ACTUATOR, UNCLASSIFIED, FINAL CONTROL ELEMENT	

TABLE NOTES:
(1) WHEN USED SYMBOL OR SIGNAL LINE IS ANNOTATED.

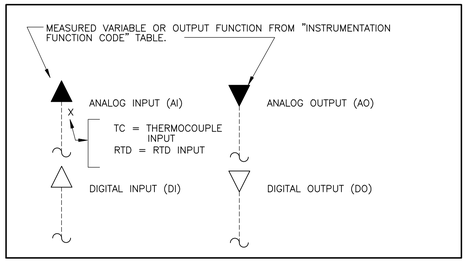
INSTRUMENT LINE SYMBOLS

ELECTRICAL SIGNAL
TELEPHONE SIGNAL
ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)
ELECTROMAGNETIC OR SONIC SIGNAL (UNGUIDED)
PROCESS AIR SUPPLY
CAPILLARY TUBE
HYDRAULIC SUPPLY
VENDOR SUPPLIED CABLE
COMMUNICATION LINK - COPPER (HARDWIRED)
COMMUNICATION LINK - FIBER OPTICS

ELECTRICAL / AIR SOURCES

UPS - - - → UPS POWERED ELECTRICAL SOURCE
ES - - - → ELECTRICAL SOURCE
IA ——→ INSTRUMENT AIR SOURCE

I/O SIGNALS



PRIMARY ELEMENTS

FE / M — MAGNETIC FLOW METER
FE — TURBINE OR PROPELLER FLOW METER
FE / C — CORIOLIS FLOW METER
FE — ULTRASONIC FLOW METER
FE — ROTAMETER
WEIR / FE
ORIFICE PLATE / FE
VENTURI TUBE / FE
FLUME / FE
FE (X) — GENERAL INSERTION FLOW METER (IM=INSERT MAG)
FE — THERMAL MASS FLOW METER

LE — FLOAT SWITCH
LE — ULTRASONIC LEVEL SENSOR
LE — RADAR LEVEL SENSOR
LE — SUBMERSIBLE LEVEL SENSOR
PI — PRESSURE GAUGE
PDI — DIFFERENTIAL PRESSURE GAUGE
TI — TEMPERATURE GAUGE
AE (X) — GENERAL ANALYZER (pH=pH, DO=DISSOLVED OXYGEN, H2S=HYDROGEN SULFIDE, LEL=% LOWER EXPLOSIVE LIMIT, OZ=OXYGEN, O3=OZONE, NH3=NITRATE, TURB=TURBIDITY, FL=FLUORIDE)

GENERAL NOTES

1. THIS LEGEND APPLIES TO P&IDS ONLY AND MAY DIFFER FROM LEGENDS FOR OTHER SHEETS.

2. IN GENERAL THIS LEGEND SHEET AND THE P&IDS ARE BASED ON THE INTERNATIONAL SOCIETY OF AUTOMATION (ISA) STANDARDS AND RECOMMENDED PRACTICES FOR INSTRUMENTATION AND CONTROL. SOME MODIFICATIONS, ADDITIONS AND ALTERATIONS HAVE BEEN MADE AS REQUIRED TO ACCOMMODATE PROJECT REQUIREMENTS.

3. SOME PROCESS ITEMS SUCH AS EQUIPMENT ISOLATION VALVES, BYPASS LINES, ETC., WHICH ARE NOT CRITICAL FOR AN UNDERSTANDING OF THE INSTRUMENTATION FUNCTIONS ARE NOT SHOWN ON THE P&IDS.

4. SEE ELECTRICAL AND MECHANICAL SHEETS AND SPECIFICATIONS FOR ADDITIONAL CONTROL AND INTERLOCK REQUIREMENTS.

5. LIGHTER WEIGHT LINES, SHOWN AS ———— , INDICATE EQUIPMENT, INSTRUMENTS OR PIPING THAT ARE EXISTING. WEIGHTED LINES, SHOWN AS ———— OR HEAVIER ———— , INDICATE EQUIPMENT, INSTRUMENTS OR PIPING THAT ARE NEW. DASHED WEIGHTED LINES, SHOWN AS ——-——-—— , INDICATED EQUIPMENT, INSTRUMENTS OR PIPING THAT ARE GROUPED AS A PACKAGE.

GENERAL ABBREVIATIONS

AI	ANALOG IN
AO	ANALOG OUT
CPU	CENTRAL PROCESSOR UNIT
DI	DIGITAL OR DISCRETE INPUT
DO	DIGITAL OUTPUT
FL	FLUORIDE
FW	FINISHED WATER
HMI	HUMAN MACHINE INTERFACE
MCC	MOTOR CONTROL CENTER
NAOH	SODIUM HYDROXIDE
NC	NORMALLY CLOSED
NPW	NON-POTABLE WATER
NO	NORMALLY OPEN
OPH4	ORTHOPHOSPHATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PW	PLANT WATER
RIO	REMOTE INPUT/OUTPUT
RW	RAW WATER
SHC	SODIUM HYPOCHLORITE
SS	SANITARY SEWER
TW	TREATED WATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
DRAWN BY: J. LOWE
SHEET CHK'D BY: G. CZERNIEJEWSKI
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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

INSTRUMENTATION LEGEND I

PROJECT NO. 20790-289282
FILE NAME: I001SYMB.DWG

SHEET NO.
I-1

ISSUED FOR BID

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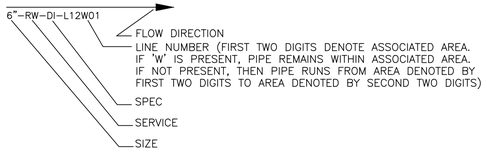
TYPICAL PIPE TAG NUMBERS & DESIGNATION



PIPE LINE SYMBOLS

PIPE UNION

FLEXIBLE BELLOWS TYPE COUPLING

FLEXIBLE COUPLING (GENERAL SYMBOL)

QUICK CONNECT TYPE COUPLING

HOSE CONNECTION

Y–STRAINER

REDUCER/ENLARGER

BLIND FLANGE OR PLUG

CONTINUED PIPE

CONCENTRIC FLANGE MOUNTED DIAPHRAGM SEAL

THREADED DIAPHRAGM SEAL

ANNULAR SEAL

OPEN EQUIPMENT DRAIN

DIFFUSER

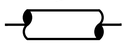
BASKET STRAINER

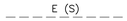
FILTER

PULSATION DAMPNER

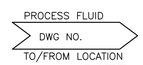
MAJOR PROCESS LINE

MINOR PROCESS LINE


DOUBLE WALLED PIPE



ELECTRIC (OR STEAM) TRACING



DRAWING CONTINUATION

GATE SYMBOLS

SLUICE GATE (SLG)

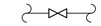
SLIDE GATE (SG)

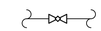
WEIR SLIDE GATE (WSG)

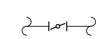
BUTTERFLY GATE

BULK HEAD GATE/STOP LOG

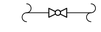
VALVE SYMBOLS

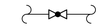

GATE VALVE (GV)

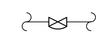

PLUG VALVE (PV)


BUTTERFLY VALVE (BFV)

BALL VALVE (BV)

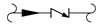

GLOBE VALVE (GLV)


PINCH VALVE (PCHV)

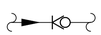

DIAPHRAGM VALVE (DV)

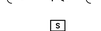
SWING OR RUBBER–FLAPPER CHECK VALVE (CV)

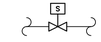
BALL CHECK VALVE (BCV)

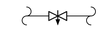


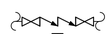
SOLENOID VALVE (SV)

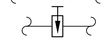

NEEDLE VALVE (NV)

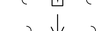

BACKFLOW PREVENTER (BFP)


KNIFE VALVE (KNV)


MUD VALVE (MV)


PRESSURE REGULATING VALVE (PREGV)


BACK PRESSURE REGULATING VALVE (BPV)


DIFFERENTIAL PRESSURE REGULATING VALVE W/ EXTERIOR TAPS

SELF–CONTAINED DIFFERENTIAL PRESSURE REGULATING VALVE

SELF–CONTAINED DIFFERENTIAL PRESSURE REGULATING VALVE (SOLENOID OPERATED)

PRESSURE RELIEF VALVE (PRV) AIR RELIEF VALVE (ARV)

VACUUM RELIEF VALVE (VRV)

AIR–VACUUM RELEASE VALVE (AVV) COMBINATION AIR VALVE (CAV)

VALVE ACTUATORS

HAND (MANUALLY) OPERATED

DIAPHRAGM, SPRING OPPOSED

DIAPHRAGM, PRESSURE–BALANCED

ROTARY MOTOR. (SHOWN TYPICALLY WITH ELECTRIC SIGNAL. MAY BE HYDRAULIC OR PNEUMATIC)

SOLENOID

ELECTROHYDRAULIC

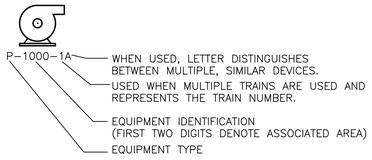
CYLINDER, SINGLE–ACTING, SPRING OPPOSED WITHOUT POSITIONER OR PILOT.

CYLINDER, DOUBLE ACTING, WITHOUT POSITIONER OR PILOT

EXAMPLE OF CYLINDER WITH POSITIONER

ANY CYLINDER THAT IS ASSEMBLED WITH A PILOT SO THAT ASSEMBLY IS ACTUATED BY ONE CONTROLLED INPUT. PILOT MAY BE POSITIONER, SOLENOID VALVE, SIGNAL CONVERTER, etc.

TYPICAL EQUIPMENT TAG NUMBERS & DESIGNATION



PROCESS EQUIPMENT

PARTIAL LIST
ADDITIONAL SYMBOLS MAY BE SHOWN ON THE FLOW DIAGRAMS

CENTRIFUGAL PUMP

PLUNGER / POSITIVE DISPLACEMENT PUMP

PROGRESSING CAVITY PUMP

DIAPHRAGM METERING PUMP

AIR OPERATED DIAPHRAGM PUMP

ROTARY PUMP

ROTARY BLOWER

CENTRIFUGAL BLOWER

BELT CONVEYOR

SCREW CONVEYOR

GRINDER

MIXER

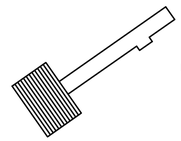
SUBMERSIBLE PUMP

VERTICAL TURBINE CAN PUMP

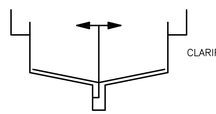
VERTICAL TURBINE PUMP

STATIC MIXER

MANUAL SCREEN


MECHANICAL SCREEN

CALIBRATION COLUMN


CLARIFIER

GENERAL NOTES

1. REFER TO SHEET I–1 FOR ADDITIONAL NOTES

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
DRAWN BY: J. LOWE
SHEET CHK'D BY: G. CZERNIEJEWSKI
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: W. WHITMORE
DATE: JULY 2025

CDM Smith
4651 Salisbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

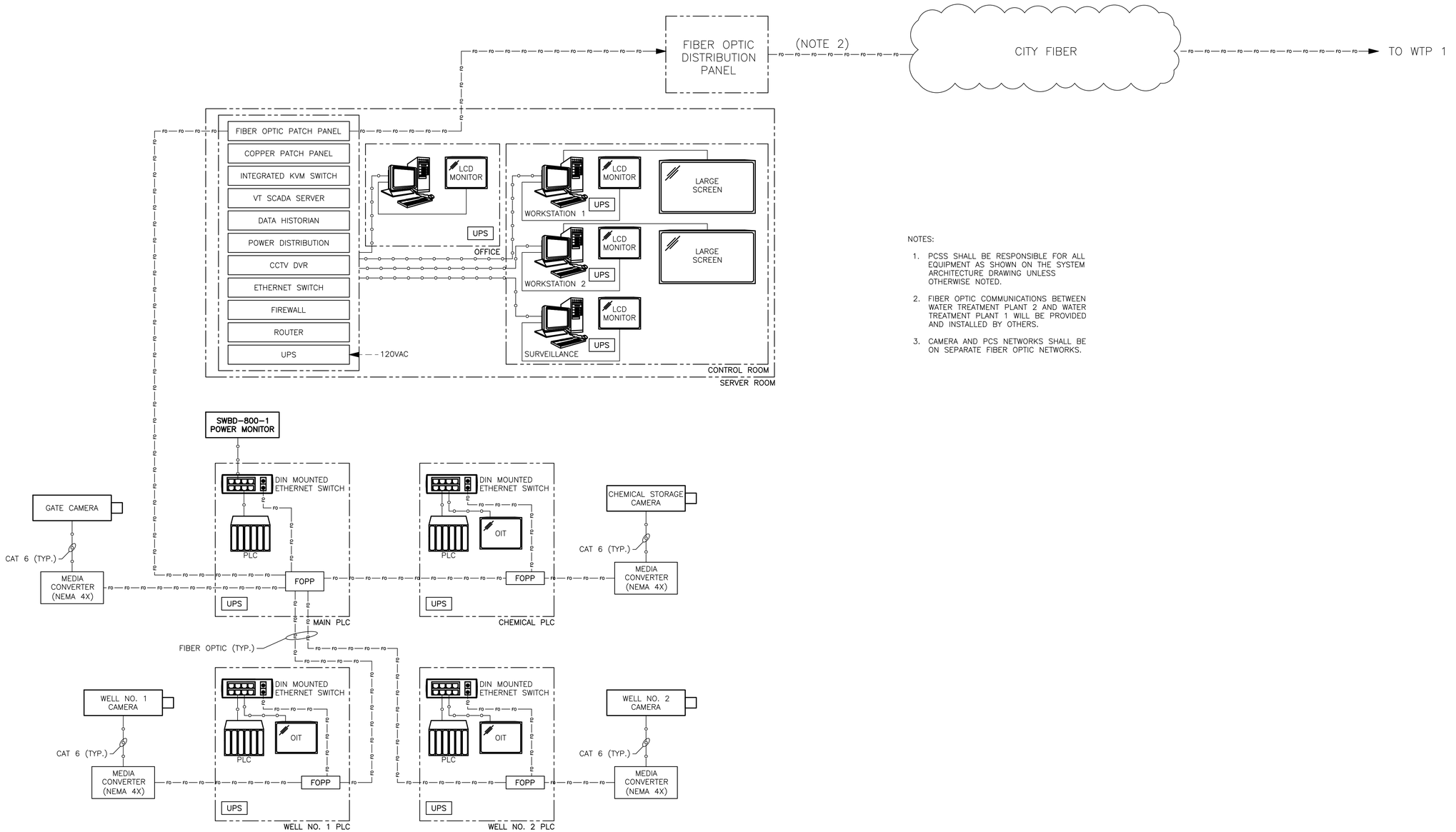
INSTRUMENTATION LEGEND II

PROJECT NO. 20790–289282
FILE NAME: I002SYMB.DWG

SHEET NO.
I-2

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

ISSUED FOR BID



NOTES:

1. PCSS SHALL BE RESPONSIBLE FOR ALL EQUIPMENT AS SHOWN ON THE SYSTEM ARCHITECTURE DRAWING UNLESS OTHERWISE NOTED.
2. FIBER OPTIC COMMUNICATIONS BETWEEN WATER TREATMENT PLANT 2 AND WATER TREATMENT PLANT 1 WILL BE PROVIDED AND INSTALLED BY OTHERS.
3. CAMERA AND PCS NETWORKS SHALL BE ON SEPARATE FIBER OPTIC NETWORKS.

GEORGIA REGISTERED No. PE041927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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DATE: JULY 2025

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COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

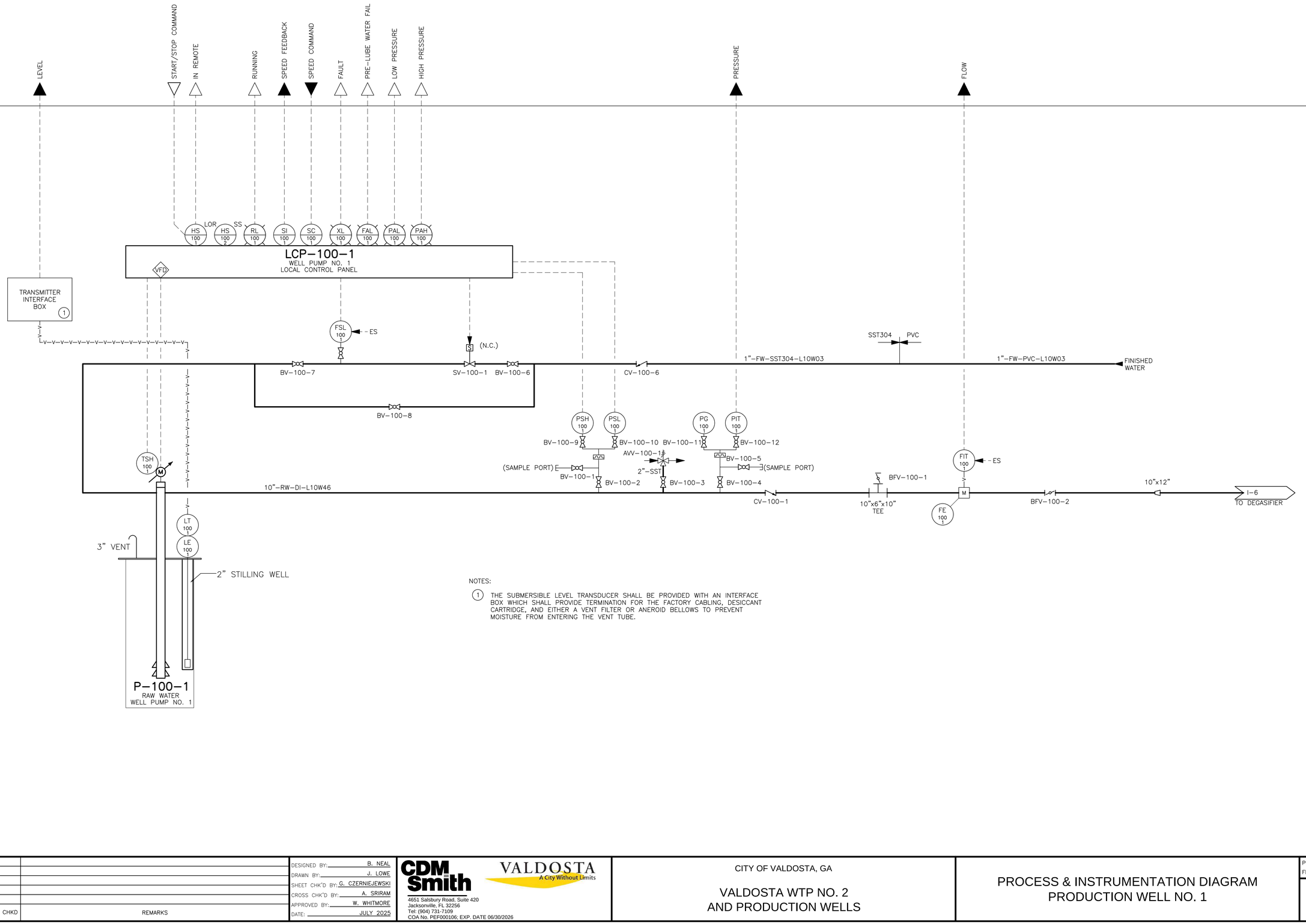
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

SYSTEM ARCHITECTURE

PROJECT NO. 20790-289282
FILE NAME: I003PIDT.DWG

SHEET NO.
I-3

ISSUED FOR BID



NOTES:

(1) THE SUBMERSIBLE LEVEL TRANSDUCER SHALL BE PROVIDED WITH AN INTERFACE BOX WHICH SHALL PROVIDE TERMINATION FOR THE FACTORY CABLING, DESICCANT CARTRIDGE, AND EITHER A VENT FILTER OR ANEROID BELLOWS TO PREVENT MOISTURE FROM ENTERING THE VENT TUBE.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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VALDOSTA
A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
PRODUCTION WELL NO. 1

PROJECT NO. 20790-289282
FILE NAME: I004PIDI.DWG

SHEET NO.
I-4

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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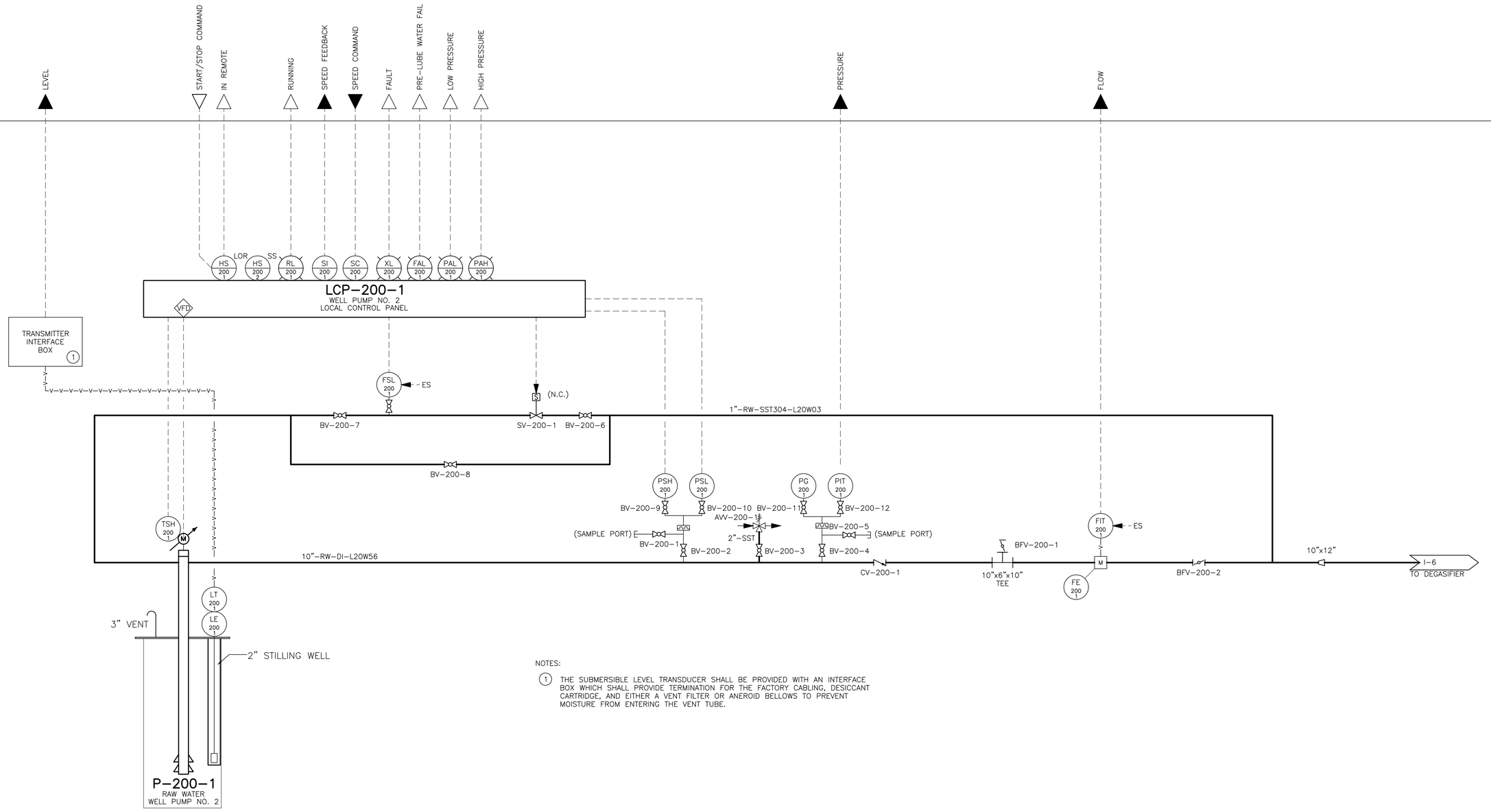

NOTES:

1. THE SUBMERSIBLE LEVEL TRANSDUCER SHALL BE PROVIDED WITH AN INTERFACE BOX WHICH SHALL PROVIDE TERMINATION FOR THE FACTORY CABLING, DESICCANT CARTRIDGE, AND EITHER A VENT FILTER OR ANEROID BELLOWS TO PREVENT MOISTURE FROM ENTERING THE VENT TUBE.

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
DRAWN BY: J. LOWE
SHEET CHK'D BY: W. WHITMORE
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: G. CZERNIEJEWSKI
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
PRODUCTION WELL NO. 2

PROJECT NO. 20790-289282
FILE NAME: I005PIDI.DWG

SHEET NO.
I-5

ISSUED FOR BID

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MAIN PLC

pH
LOW FLOW ALARM
HIGH LEVEL ALARM
pH
CLEARWELL LEVEL
HIGH LEVEL ALARM
LOW LEVEL ALARM
START/STOP
IN REMOTE
RUNNING
FAULT
LOW FLOW
HIGH PRESSURE
SPEED FEEDBACK
SPEED COMMAND
START/STOP
IN REMOTE
RUNNING
FAULT
LOW FLOW
HIGH PRESSURE
SPEED FEEDBACK
SPEED COMMAND

I-10 pH TO CO2 FEED PANEL
I-7 FROM LCP-480-1

LOR SS HS 457 1 / HS 457 2 | RL 457 1 | XL 457 1 | PAL 457 1 | PAH 457 1 | SI 457 1 | SC 457 1

VFD-457-1
TRANSFER PUMP NO. 1
VARIABLE FREQUENCY DRIVE

LOR SS HS 458 1 / HS 458 2 | RL 458 1 | XL 458 1 | PAL 458 1 | PAH 458 1 | SI 458 1 | SC 458 1

VFD-458-1
TRANSFER PUMP NO. 2
VARIABLE FREQUENCY DRIVE

1"-RW-SS304-L45W01
3"-CA-SS304-L91W106
I-10 FROM CARBON DIOXIDE
DI
SST316
AIT 450 1 — ES
FE 450 1 46
NV-450-1
AE 450 1 46 pH
DRAIN pH RACK
FSL 450 — ES
16"-RW-SST316-L45W01
BFV-450-1
I-4 FROM PRODUCTION WELL NO. 1
I-5 FROM PRODUCTION WELL NO. 2
(N.C.) CV-450-1
BFV-450-2
16"-RW-DI-L45W01
I-7 TO BIOTRICKLING FILTER SYSTEM
4"-RECIRC-CPVC-L45W10
BV-453-2
AIT 404 1 — ES
AE 404 1 40 pH
DRAIN
FE 404 1 40
NV-404-1
pH RACK
DG-452-1
DEGASIFIER NO. 1
PDI 452 1
DEGASIFIER AND BIOTRICKLING FILTER PACKAGE SYSTEM (VENDOR PROVIDED)
BFV-452-1
LSH 452 1
M
CV-453-1
2"
I-11 SODIUM HYPOCHLORITE
3/4"-SHC-CPVC-L92W118A
3" PVC
BV-453-1
P-453-1
RECIRCULATION PUMP
ES — LIT 455 1 / LE 455 1
LSH 455 1 / LSL 455 1
I-12 SODIUM HYDROXIDE
3/4"-NAOH-CPVC-L93W126
3" PVC
16"-TW-DI-L45W69
I-8 TO 1.0 MG GROUND STORAGE TANK
10"x16"
BFV-457-1
FSL 457 1
BV-457-6
CV-457-1
PG 457 1
PSH 457
BV-457-4
BV-457-5
BV-457-8
BV-457-2
BV-457-1
BV-457-3
TS 457 1 M
BV-457-7
2" AVV
10"x16"
BFV-458-1
FSL 458 1
BV-458-6
CV-458-1
PG 458 1
PSH 458
BV-458-4
BV-458-5
BV-458-8
BV-458-2
BV-458-3
TS 458 1 M
BV-458-1
BV-458-7
2" AVV

P-457-1
TRANSFER PUMP NO. 1

P-458-1
TRANSFER PUMP NO. 2

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
DRAWN BY: J. LOWE
SHEET CHK'D BY: G. CZERNIEJEWSKI
CROSS CHK'D BY: A SRIRAM
APPROVED BY: W. WHITMORE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
DEGASIFIER AND TRANSFER PUMPS

PROJECT NO. 20790-289282
FILE NAME: I006PIDI.DWG
SHEET NO. I-6

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TYPICAL OF TWO

START/STOP
IN AUTO
RUNNING
FAULT
SPEED FEEDBACK
SPEED COMMAND
RECIRCULATION PUMP START/STOP
BIOTRICKLING FILTER SYSTEM UNIT NO. 1 FAULT (NOTE 2)
BIOTRICKLING FILTER SYSTEM UNIT NO. 1 RUNNING

MAIN PLC

HOA
HS 475 1
HS 475 2
SS
RL 475 1
XL 475 1
SI 475 1
SC 475 1
HS 480 2
SS
BTF UNIT NO. 1 LOW FLOW ALARM
FAL 480 1
BTF UNIT NO. 1 HOA SELECTOR
HS 480 1
BTF UNIT NO. 1 RUNNING
RL 480 1
BTF UNIT NO. 1 FAULT
XL 480 1
BTF UNIT NO. 1 HIGH LEVEL ALARM
LAH 480 1
BTF UNIT NO. 1 SUPPLY WATER PRESSURE
PI 482 1
BTF UNIT NO. 1 SUPPLY WATER FLOW
FI 482 1
NUTRIENT FEED PUMP LOW FLOW ALARM
FAL 482 1
NUTRIENT PUMP HOA SELECTOR
HS 482 2
SUPPLY WATER MOTORIZED VALVE 0–100% ADJUSTMENT
HS 481 1
RECIRCULATION PUMP NO. 1 HOA SELECTOR
HS 481 2
NUTRIENT PUMP RUNNING
RL 482 1
RECIRCULATION PUMP NO. 1 RUNNING
RL 482 2
BOOSTER PUMP NO. 1 RUNNING
RL 483 1
BOOSTER PUMP NO. 2 RUNNING
RL 484 1

LCP–480–1
BIOTRICKLING FILTER SYSTEM
LOCAL CONTROL PANEL

VFD
MS
MS
MS
MS
VFD

I–6
TO RECIRCULATION PUMP

VENT TO ATM

1"–SPL–PVC
BV–480–5

MIST ELIMINATOR
MEDIA

PDI 480 1

1"–IRR–PVC–L48W20

FIT 482 1
FE 482 1
BPRV–482–1
PIT 482 1
FSL 482 1
ES
M

T–483–1
NUTRIENT TANK

P–482–1
NUTRIENT FEED PUMP

CV–482–1
BV–482–1

WATER CONTROL PANEL

FSL 480 1
ES
1"–SPL–PVC
BV–480–6

TSH 475 1
M
BV–480–1
CV–475–1
32"–FA–FRP–L48W01
BFV–480–1
LSH 480 1

I–6
FROM DEGASIFIER
32"–FA–FRP–L45W67
BFV–475–1

B–475–1
FOUL AIR BLOWER NO. 1

2"–DR–PVC–L47W51
32"–FA–FRP–L47W01

VENT
3"–DR–PVC–L48W10
BV–480–2

TSH 476 1
M
BFV–476–1
CV–476–1

B–476–1
FOUL AIR BLOWER NO. 2

1"–SPL–PVC
BV–480–4
3"–DR–PVC–L48W11
BV–480–3

BV–481–1
BV–481–2

BTF–480–1
BIOTRICKLING FILTER UNIT NO. 1

I–12
SODIUM HYDROXIDE
3/4"–NAOH–CPVC–L93W128A
3" PVC

TO DRAIN

MAKE–UP WATER
2"–RW–PVC–L48W02
BV–483–1
M
CV–483–1
BV–483–2

P–483–1
BOOSTER PUMP NO. 1

BV–484–1
M
CV–484–1
BV–484–2

P–484–1
BOOSTER PUMP NO. 2

DEGASIFIER AND BIOTRICKLING FILTER PACKAGE SYSTEM (VENDOR PROVIDED)

NOTES:

1. BIOTRICKLING FILTER SYSTEM IS SHOWN ONLY WITH THE BOOSTER PUMP CONFIGURATION. BIOTRICKLING FILTER CAN USE EITHER BOOSTER PUMPS OR RECIRCULATION PUMPS IN THE DESIGN. EITHER OPTION IS ACCEPTABLE FOR INSTALLATION BY THE CONTRACTOR.
2. THE TEMPORARY RECIRCULATION PUMP MAY BE REQUIRED FOR STARTUP. THE PUMPS AND PIPING SHOWN ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ANY REQUIRED TEMPORARY EQUIPMENT, AS NECESSARY, FOR STARTUP OF THE BIOTRICKLING FILTER SYSTEM.
3. ALL ALARM CONDITIONS ASSOCIATED WITH THE BIOTRICKLING FILTER (BTF) SHALL TRIGGER THE SYSTEM FAIL ALARM THAT IS CONNECTED TO SCADA. AT A MINIMUM, THE SYSTEM FAIL SHALL BE TRIGGERED BY THE BTF LOW AIR FLOW, THE BTF HIGH LEVEL, THE BTF LOW SUPPLY WATER FLOW, AND THE BTF LOW NUTRIENT FLOW CONDITIONS.

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM BIOTRICKLING FILTER SYSTEM

PROJECT NO. 20790–289282
FILE NAME: I007PIDI.DWG

SHEET NO.
I-7

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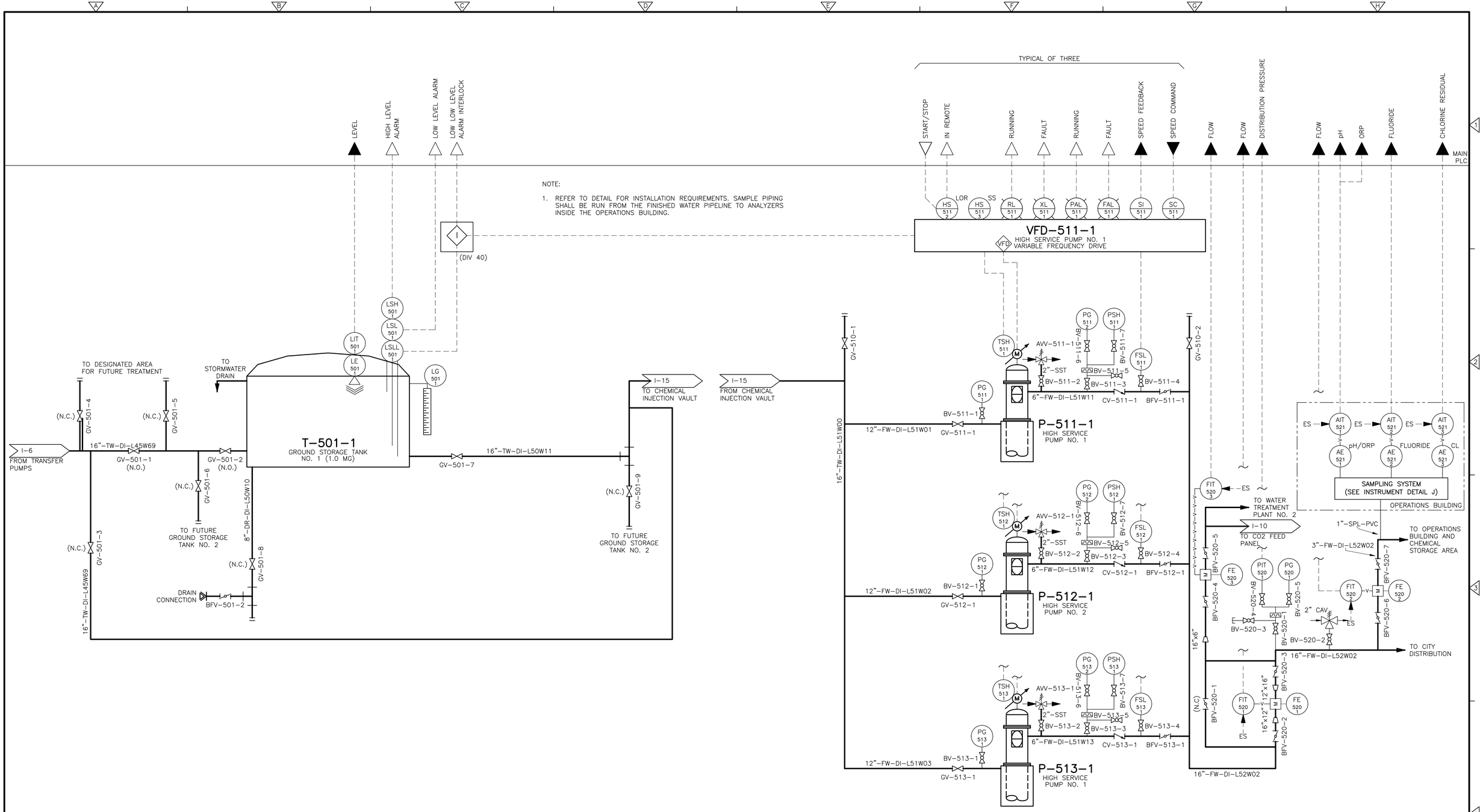

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM GROUND STORAGE TANK AND HIGH SERVICE PUMPS

PROJECT NO. 20790-289282
FILE NAME: I008PIDI.DWG
SHEET NO. I-8

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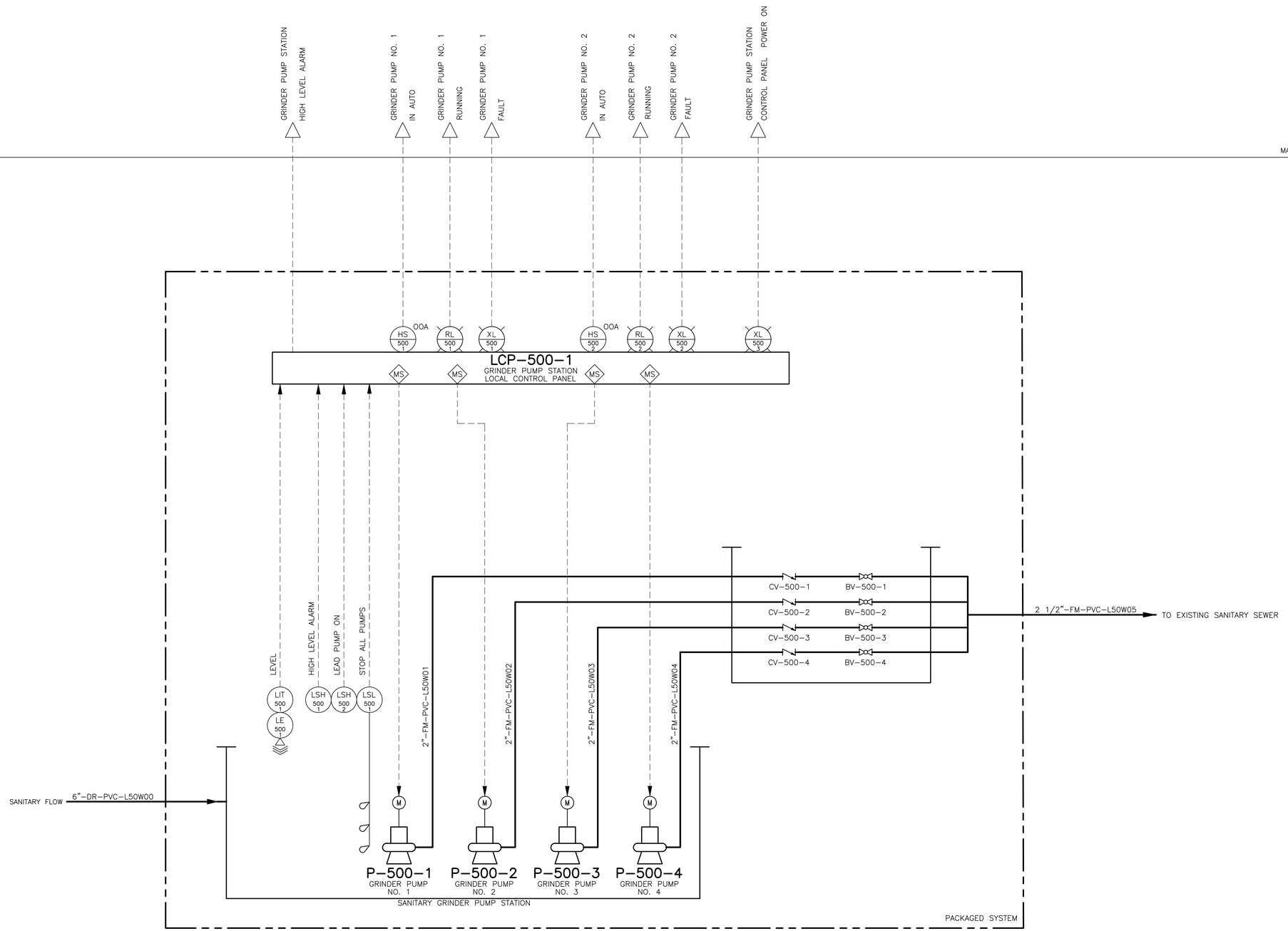

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CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
SANITARY GRINDER PUMP STATION

PROJECT NO. 20790-289282
FILE NAME: I009PIDI.DWG
SHEET NO. I-9

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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CHEMICAL PLC

LEVEL

LOW TANK PRESSURE

HIGH TANK PRESSURE

MAIN PLC

START/STOP CO2 FEED

IN REMOTE

LOW pH

HIGH pH

LOW WATER PRESSURE

pH

CO2 FLOW RATE

REFRIGERATION UNIT RUNNING RL 910 1

REFRIGERATION UNIT FAULT XL 910 1

PAL 910 1

PAH 910

VAPORIZER RUNNING RL 910 2

VAPORIZER FAULT XL 910 2

LCP-910-1
CARBON DIOXIDE REFRIGERATION
LOCAL CONTROL PANEL

HS 914 1 (LOR)

AAL 914 1

AAH 914 1

PAL 914 1

AI 914

FI 914 1

I-6
FROM pH ANALYZER

PID

LCP-914-1
CARBON DIOXIDE FEED SYSTEM
LOCAL CONTROL PANEL

PRV-913-1

PG 913 1

BV-913-1

H-910-1
VAPOR HEATER

CO2 TO CO2 FEED PANEL

PREGV-913-1

PG 914 1

BV-914-1

BV-914-2

PG 914 2

PREGV-914-1

BV-914-3

BV-914-4

S

SV-914-1

BV-914-5

BV-914-6

BV-914-9

ES

FIT 914

C

BV-914-7

BV-914-8

PRV-914-1

ZIT 914 1

ZC 914 1

BV-914-10

SV-914-2

BV-914-11

NV-914-1

PG 914 3

BV-914-15

BCV-914-1

BV-914-12

SV-914-3

S

SM-914-1
STATIC MIXER

PG 914 4

BV-914-16

I-6
CARBONIC ACID SOLUTION TO DEGASSIFIER FEED

SM-914-2
STATIC MIXER

PSL 914 1

BV-914-13

PG 914 5

BV-914-14

PRESSURIZED SOLUTION FEED SYSTEM ENCLOSURE

VENDOR SUPPLIED PACKAGE (NOTE 2)

PRV-910-3

PRV-910-4

PSH 910 1

TT 910 1

PSL 910

BV-910-6

BV-910-7

PG 910 1

PRV-910-1

BV-910-5

BV-910-2

BV-910-1

ES

LIT 910 1

PRV-910-2

LE 910 1

BV-910-4

BV-910-3

TK-910-1
CARBON DIOXIDE STORAGE TANK
60 TONS

BV-910-8

M

BV-911-1

RU-911-1
REFRIGERANT UNIT

BV-912-1

PDIT 910

PRV-912-1

BV-912-3

VAP-912-1
VAPORIZER

BV-912-2

NOTES:

1. ALL INSTRUMENTS WITHIN VENDOR SUPPLIED PACKAGE BOUNDARY PROVIDED UNDER DIVISION 46.
2. THE CARBON DIOXIDE STORAGE TANK IS LOCATED AT THE EAST SIDE OF THE PLANT. THE PRESSURIZED SOLUTION FEED SYSTEM ENCLOSURE IS LOCATED AT DEGASIFICATION COMPLEX NO. 1. DESPITE WHAT THE VENDOR SUPPLIED PACKAGE EXTENTS SHOW ON THIS PAGE, THE SST304 PIPING BETWEEN THE CARBON DIOXIDE STORAGE AND PRESSURIZED SOLUTION FEED SYSTEM ENCLOSURE IS TO BE PROVIDED BY THE CONTRACTOR.

I-8
FROM HIGH SERVICE PUMP STATION

3"-FW-PVC-L52W02A

PREGV-915-1

GEORGIA REGISTERED No. PE041927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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Jacksonville, FL 32256
Tel: (904) 731-7109
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
CARBON DIOXIDE FEED SYSTEM

PROJECT NO. 20790-289282
FILE NAME: I010PIDI.DWG

SHEET NO.
I-10

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EYEWASH FLOW ALARM

HIGH LEVEL ALARM — TYPICAL OF TWO

LEVEL

START/STOP — TYPICAL OF TWO

IN REMOTE

RUNNING

COMMON FAULT

SPEED INDICATION

SPEED CONTROL

FLOW

CHEMICAL PLC

120VAC → FSH 920 1 22

SUPPLY WATER

EWS–920–1
EYEWASH SHOWER

LAH 920 1 | SILENCE HS 920 1 | BEACON/HORN XA 920 1 | LI 920 1

LCP–920–1
TRUCK FILL PANEL

120VAC

LOR HS 921 1 | SS HS 921 2 | RL 921 1 | XL 921 1 | PLL 921 1 | SI 921 1 | SC 921 1 | FI 921 1

LCP–920–3
SODIUM HYPOCHLORITE PUMP
LOCAL CONTROL PANEL

VFD | VFD

TANK FILL (QUICK CONNECT) → BV–920–1

6" PVC VENT WITH SST INSECT SCREEN

LIT 920 1 → ES

LE 920

2" BV–930–3 → LG 920 1

2"–OVERFLOW–CPVC–L92W03

BV–920–4

BV–920–5

4"x2" BV–920–2

2" FLEX CONNECTION → BV–920–6 → BV–920–7 → FLUSHING CONNECTION

T–920–1
SODIUM HYPOCHLORITE
BULK STORAGE TANK NO. 1

TANK FILL (QUICK CONNECT) → BV–920–8

6" PVC VENT WITH SST INSECT SCREEN

LIT 920 2 → ES

LE 920 2

2" BV–920–10 → LG 920 2

2"–OVERFLOW–CPVC–L92W04

BV–920–11

BV–920–12

4"x2" BV–920–9

2" FLEX CONNECTION → BV–920–13 → BV–920–14 → FLUSHING CONNECTION

T–920–2
SODIUM HYPOCHLORITE
BULK STORAGE TANK NO. 2

BASKET STRAINER

2" VENT

2"x1"

WYE STRAINER

PG 921 1 — 1"x3/4" — M

1"–SHC–CPVC–L92W10 → BV–921–1 → BV–921–2

PG 921 2 | PSH 921 1 → BV–921–4 → BV–921–5 → BV–921–3

3/4"–SHC–CPVC–L92W118A → BV–921–6 → BPRV–921–1 → BV–921–7 → BV–921–8 → FLUSHING CONNECTION

P–921–1
SODIUM HYPOCHLORITE
PUMP NO. 1

BV–925–4 → BV–925–3 → BV–925–1 → BV–925–2

BV–925–5

3/4"–SHC–CPVC–L92W22

PG 922 1 — 1"x3/4" — M

1"–SHC–CPVC–L92W20 → BV–922–1 → BV–922–2

PG 922 2 | PSH 922 1 → BV–922–4 → BV–922–5 → BV–922–3

BV–922–6 → BPRV–922–1 → BV–922–7 → BV–922–8 → FLUSHING CONNECTION

P–922–1
SODIUM HYPOCHLORITE
PUMP NO. 2

SODIUM HYPOCHLORITE FEED PUMP SKID

I–15 TO CHEMICAL INJECTION VAULT

I–6 TO DEGASIFIER

(N.C.) 4"–DR–PVC–L92W05 → TO DRAIN

NOTES:

1. WIRING BETWEEN EACH PUMP AND LOCAL CONTROL PANEL SHALL CONSIST OF FOUR CABLES:
   - –GENIBUS SERIAL
   - –4–20mA SPEED INPUT
   - –4–20mA SPEED OUTPUT
   - –RELAY OUTPUT
2. EACH LOCAL LEVEL INDICATOR SHALL BE CONFIGURED TO PROVIDE A LEVEL HIGH ALARM AT ONE FOOT BELOW OVERFLOW ELEVATION.

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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VALDOSTA A City Without Limits

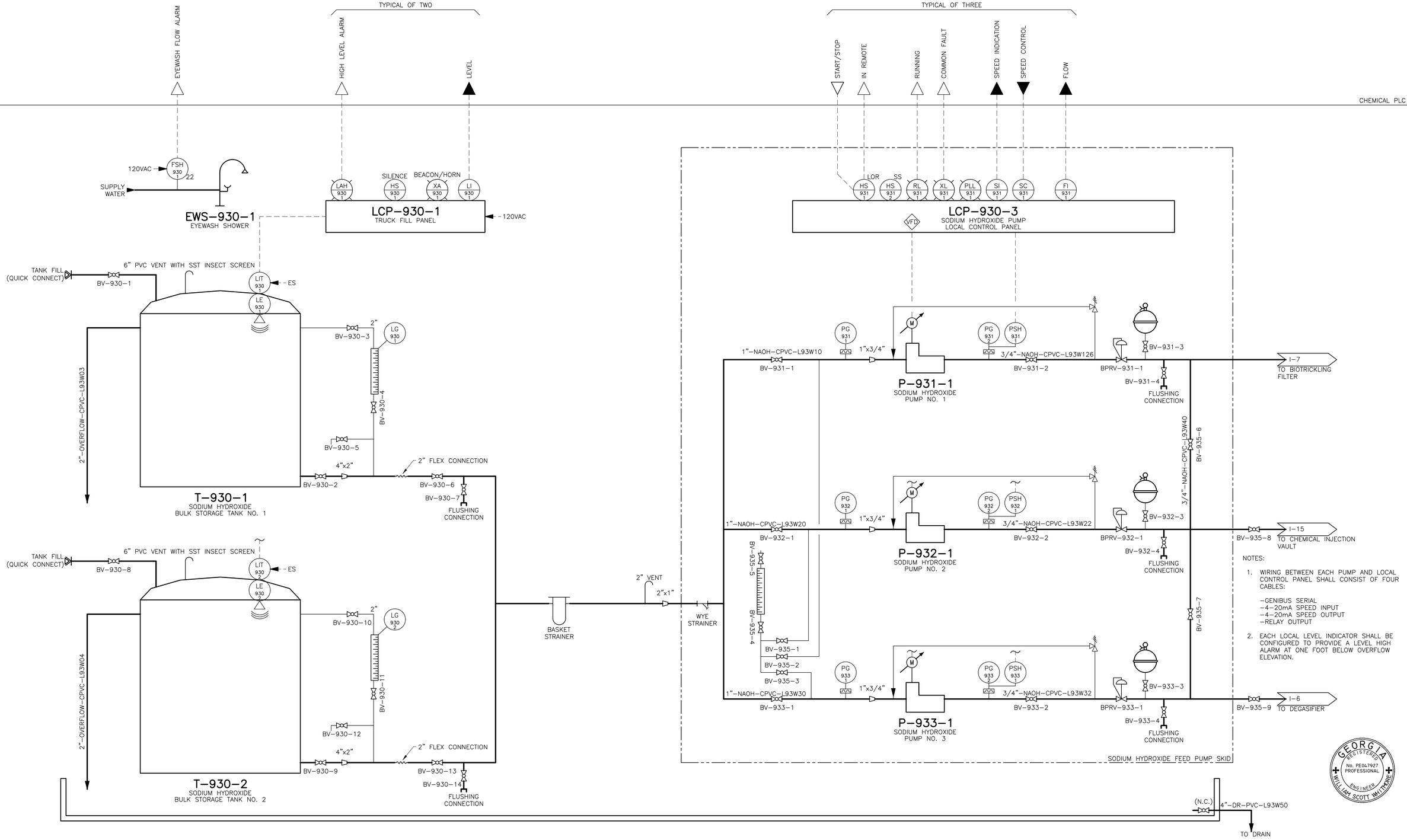
CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
SODIUM HYPOCHLORITE SYSTEM

PROJECT NO. 20790–289282
FILE NAME: I011PIDI.DWG
SHEET NO. I-11

ISSUED FOR BID



NOTES:

1. WIRING BETWEEN EACH PUMP AND LOCAL CONTROL PANEL SHALL CONSIST OF FOUR CABLES:
   - –GENIBUS SERIAL
   - –4–20mA SPEED INPUT
   - –4–20mA SPEED OUTPUT
   - –RELAY OUTPUT
2. EACH LOCAL LEVEL INDICATOR SHALL BE CONFIGURED TO PROVIDE A LEVEL HIGH ALARM AT ONE FOOT BELOW OVERFLOW ELEVATION.

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
DRAWN BY: J. LOWE
SHEET CHK'D BY: G. CZERNIEJEWSKI
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: W. WHITMORE
DATE: JULY 2025

CDM Smith
4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
Tel: (904) 731-7109
COA No. PEF000106; EXP. DATE 06/30/2026

VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
SODIUM HYDROXIDE SYSTEM

PROJECT NO. 20790-289282
FILE NAME: I012PIDI.DWG

SHEET NO.
I-12

ISSUED FOR BID

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EYEWASH FLOW ALARM

HIGH LEVEL ALARM

LEVEL

TYPICAL OF TWO

START/STOP

IN REMOTE

RUNNING

COMMON FAULT

SPEED INDICATION

SPEED CONTROL

FLOW

CHEMICAL PLC

120VAC

FSH 940 1 22

SUPPLY WATER

EWS–940–1
EYEWASH SHOWER

LAH 940 1

SILENCE HS 940 1

BEACON/HORN XA 940 1

LI 940 1

LCP–940–1
TRUCK FILL PANEL

120VAC

LOR HS 941 1

SS HS 941 2

RL 941 1

XL 941 1

PLL 941 1

SI 941 1

SC 941 1

FI 941 1

LCP–940–2
HYDROFLUOSILICIC ACID FEED PUMP
LOCAL CONTROL PANEL

VFD

VFD

TANK FILL (QUICK CONNECT)

BV–940–1

6" PVC VENT WITH SST INSECT SCREEN

LIT 940 1

ES

LE 940 1

2" OVERFLOW–CPVC–L94W03

2"

BV–940–3

LG 940 1

BV–940–4

BV–940–5

4"x2"

BV–940–2

2" FLEX CONNECTION

BV–940–6

BV–940–7

FLUSHING CONNECTION

T–940–1
HYDROFLUOSILICIC ACID
BULK STORAGE TANK NO. 1

BASKET STRAINER

2" VENT

2"x1"

WYE STRAINER

PG 941 1

1"x3/4"

M

PG 941 2

PSH 941 1

1"–FL–CPVC–L94W10

BV–941–1

BV–941–2

BV–941–3

BPRV–940–1

BV–941–4

FLUSHING CONNECTION

P–941–1
HYDROFLUOSILICIC ACID FEED
PUMP NO. 1

BV–945–5

I–15

TO CHEMICAL INJECTION VAULT

BV–945–4

BV–945–3

BV–945–1

BV–945–2

BV–942–5

3/4"–FL–CPVC–L94W22

PG 942 1

1"x3/4"

M

PG 942 2

PSH 942 1

1"–FL–CPVC–L94W20

BV–942–1

BV–942–2

BV–942–3

BPRV–942–1

BV–942–4

FLUSHING CONNECTION

P–942–1
HYDROFLUOSILICIC ACID FEED
PUMP NO. 2

HYDROFLUOSILICIC ACID FEED PUMP SKID

NOTES:

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   –GENIBUS SERIAL
   –4–20mA SPEED INPUT
   –4–20mA SPEED OUTPUT
   –RELAY OUTPUT

2. EACH LOCAL LEVEL INDICATOR SHALL BE CONFIGURED TO PROVIDE A LEVEL HIGH ALARM AT ONE FOOT BELOW OVERFLOW ELEVATION.

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

(N.C.)

4"–DR–PVC–L94W50

TO DRAIN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
DRAWN BY: J. LOWE
SHEET CHK'D BY: G. CZERNIEJEWSKI
CROSS CHK'D BY: A. SRIRAM
APPROVED BY: W. WHITMORE
DATE: JULY 2025

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4651 Salsbury Road, Suite 420
Jacksonville, FL 32256
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COA No. PEF000106; EXP. DATE 06/30/2026

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CITY OF VALDOSTA, GA

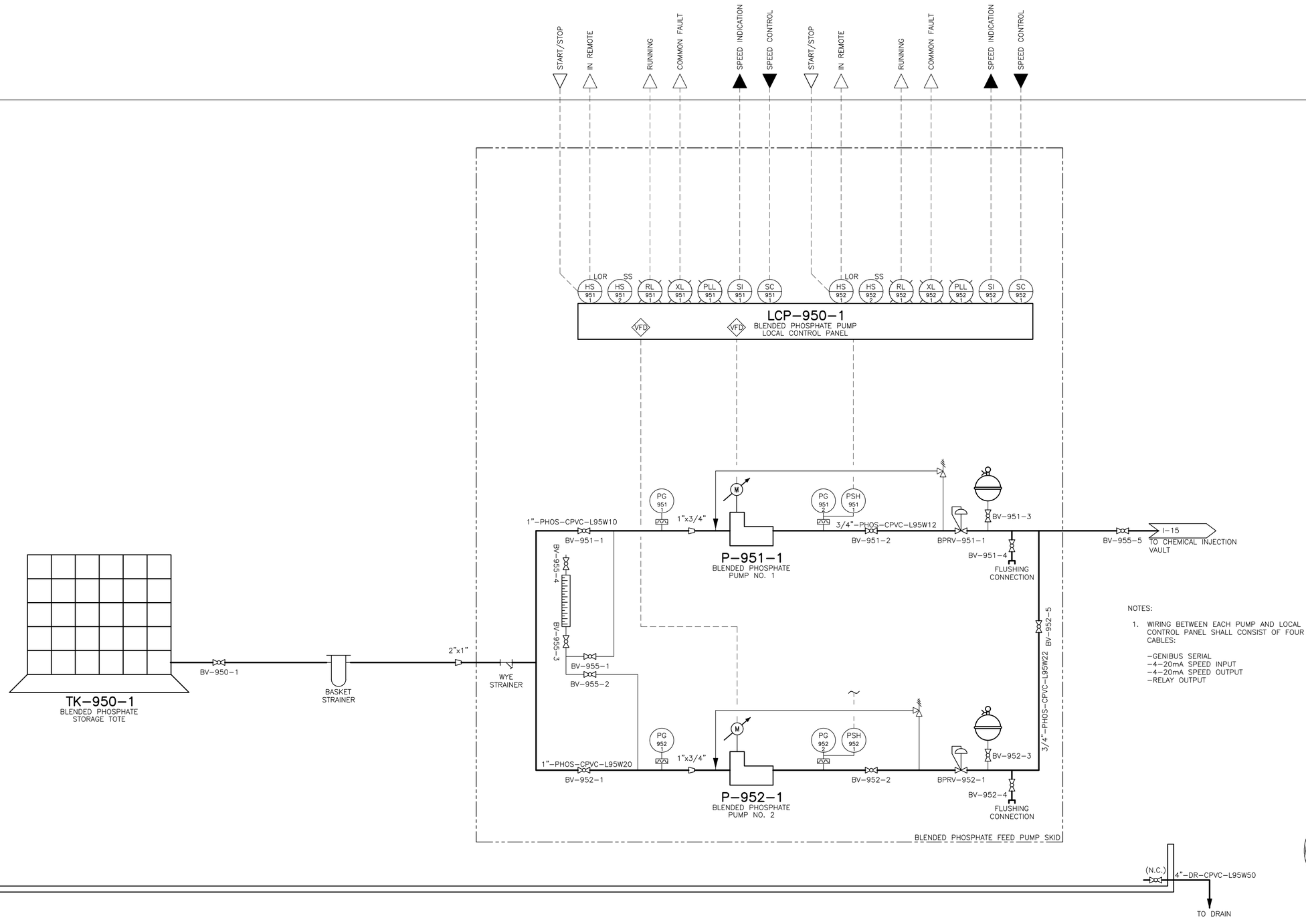
VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM HYDROFLUOSILICIC ACID SYSTEM

PROJECT NO. 20790–289282
FILE NAME: I013PIDI.DWG

SHEET NO.
I-13

ISSUED FOR BID



NOTES:

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   –4–20mA SPEED INPUT
   –4–20mA SPEED OUTPUT
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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
BLENDED PHOSPHATE SYSTEM

PROJECT NO. 20790–289282
FILE NAME: I014PIDI.DWG

SHEET NO.
I-14

ISSUED FOR BID

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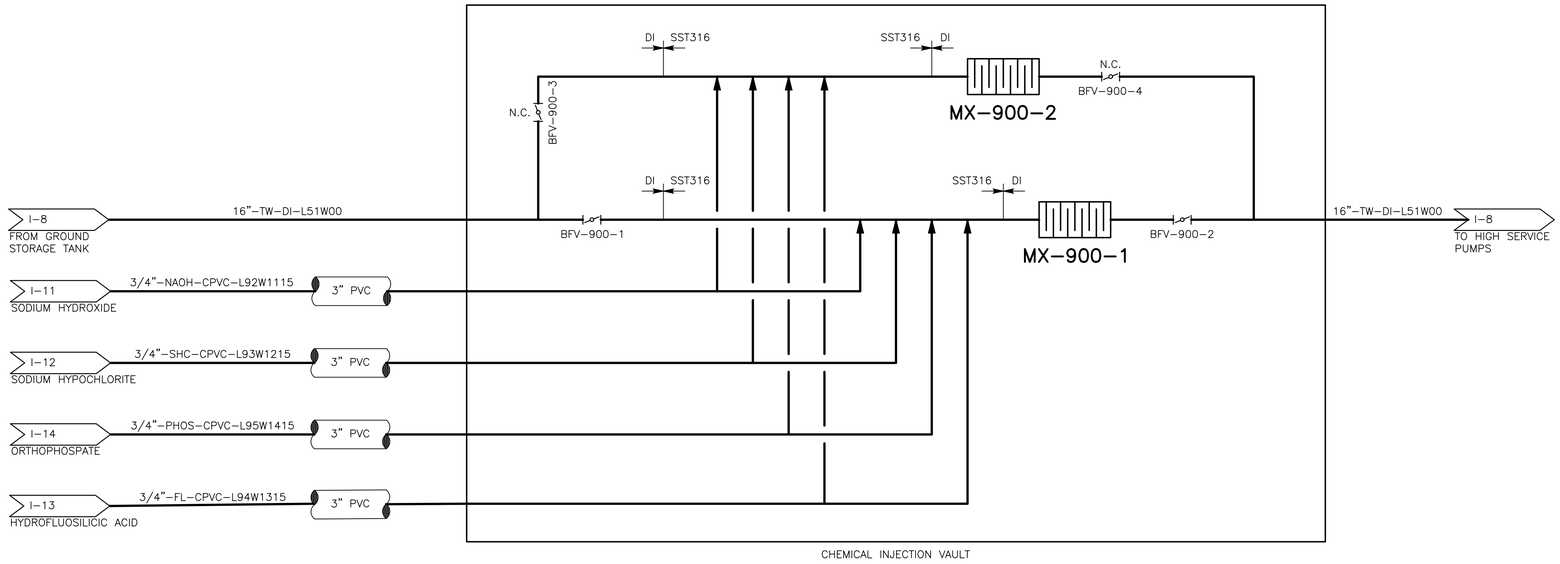

NOTE:

(1) REFER TO MECHANICAL DRAWINGS FOR INJECTION QUILL DETAILS.

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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VALDOSTA A City Without Limits

CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
CHEMICAL INJECTION VAULT

PROJECT NO. 20790-289282
FILE NAME: I015PIDI.DWG
SHEET NO. I-15

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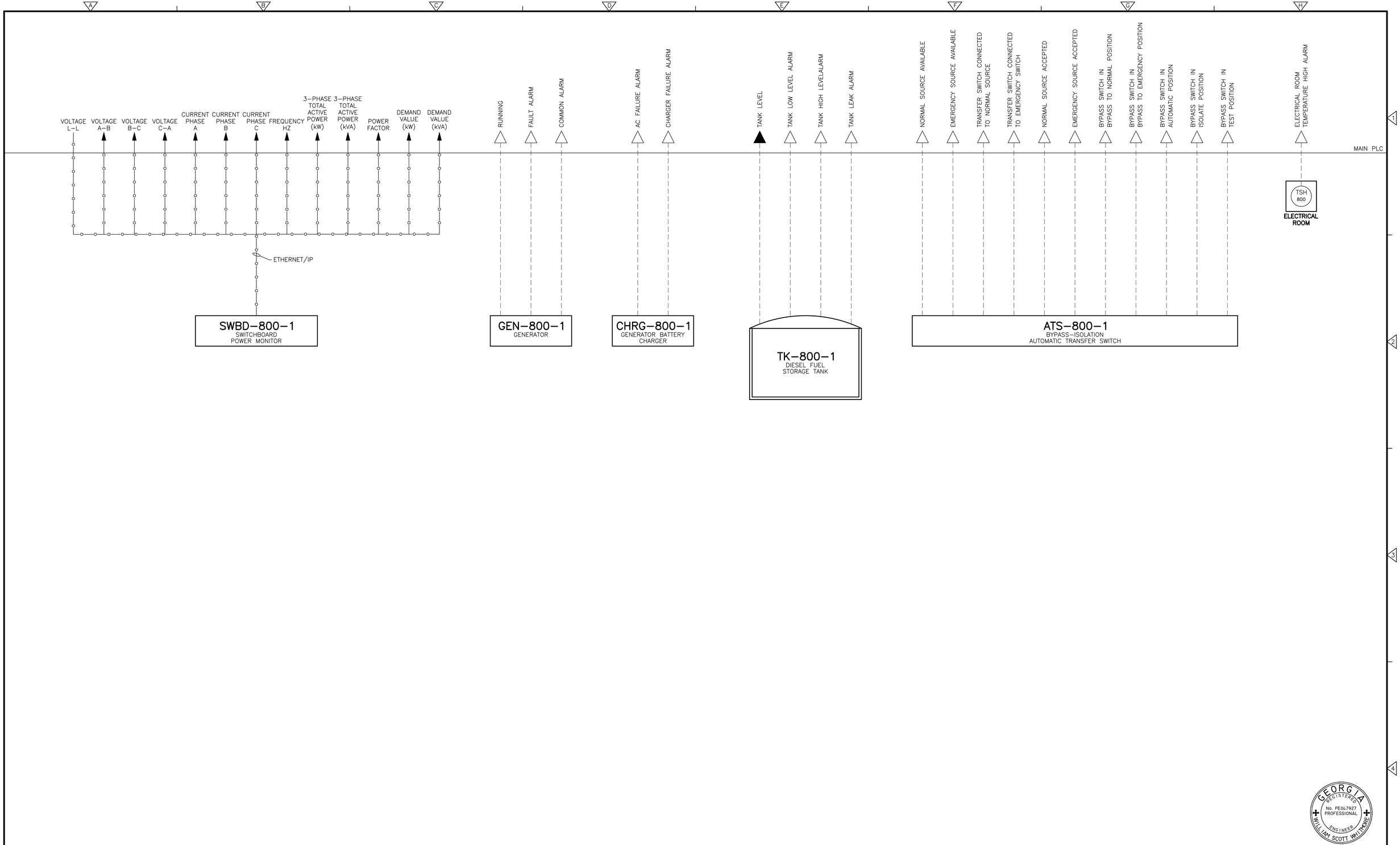

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VALDOSTA
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

PROCESS & INSTRUMENTATION DIAGRAM
POWER MONITORING

PROJECT NO. 20790–289282
FILE NAME: I016PIDI.DWG

SHEET NO.
I-16

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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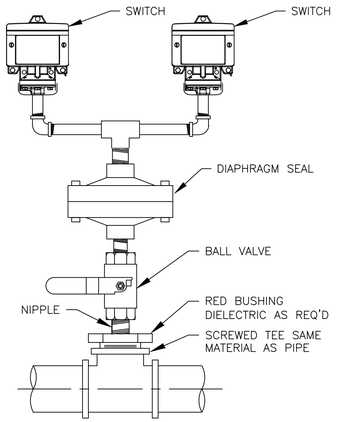
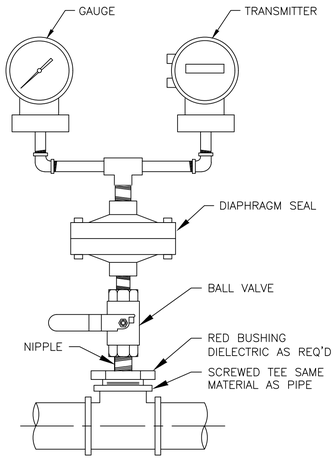


NOTES:

1. SEE NOTES TO CONTRACTOR.

DUAL PRESSURE SWITCH
(WITH DIAPHRAGM SEAL)

DETAIL A
NTS

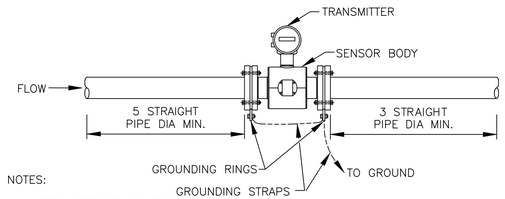


NOTES:

1. SEE NOTES TO CONTRACTOR.

PRESSURE GAUGE AND TRANSMITTER
(WITH DIAPHRAGM SEAL)

DETAIL B
NTS

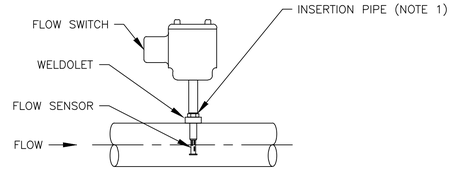


NOTES:

1. SEE NOTES TO CONTRACTOR.
2. PROVIDE GROUNDING RING(S) AS RECOMMENDED BY MANUFACTURER.
3. PROVIDE SENSOR LINING TO PREVENT BUILDUP ON METER.

MAGNETIC FLOW METER

DETAIL C
NTS

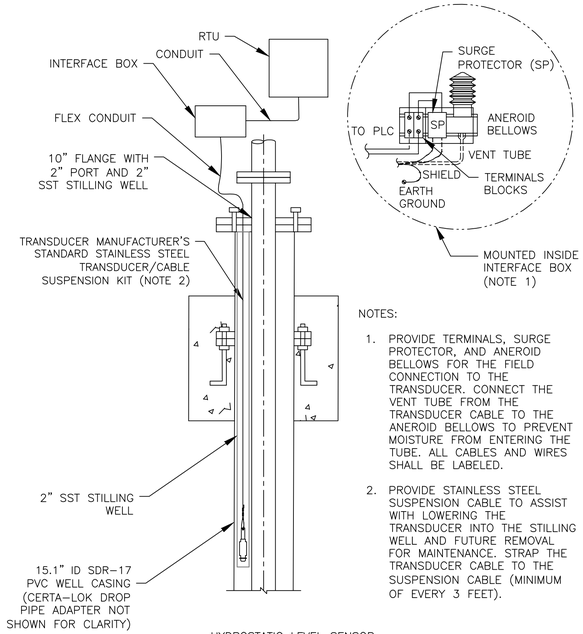


NOTES:

1. SEE NOTES TO CONTRACTOR.
2. ISOLATION BALL VALVE SHALL BE SIZED TO ALLOW INSERTION OF FLOW SENSOR PROBE.
3. PROVIDE CLEARANCE FOR REMOVAL OF PROBE FOR MAINTENANCE.

THERMAL FLOW SWITCH

DETAIL D
NTS

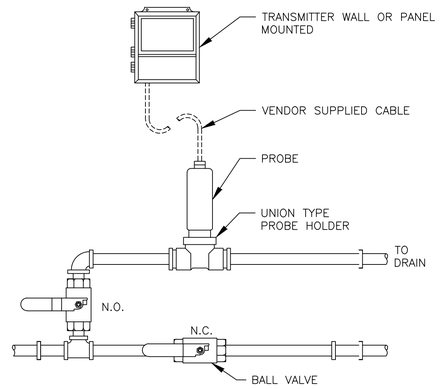


NOTES:

1. PROVIDE TERMINALS, SURGE PROTECTOR, AND ANEROID BELLOWS FOR THE FIELD CONNECTION TO THE TRANSDUCER. CONNECT THE VENT TUBE FROM THE TRANSDUCER CABLE TO THE ANEROID BELLOWS TO PREVENT MOISTURE FROM ENTERING THE TUBE. ALL CABLES AND WIRES SHALL BE LABELED.
2. PROVIDE STAINLESS STEEL SUSPENSION CABLE TO ASSIST WITH LOWERING THE TRANSDUCER INTO THE STILLING WELL AND FUTURE REMOVAL FOR MAINTENANCE. STRAP THE TRANSDUCER CABLE TO THE SUSPENSION CABLE (MINIMUM OF EVERY 3 FEET).

HYDROSTATIC LEVEL SENSOR
(WELL LEVEL)

DETAIL E
NTS

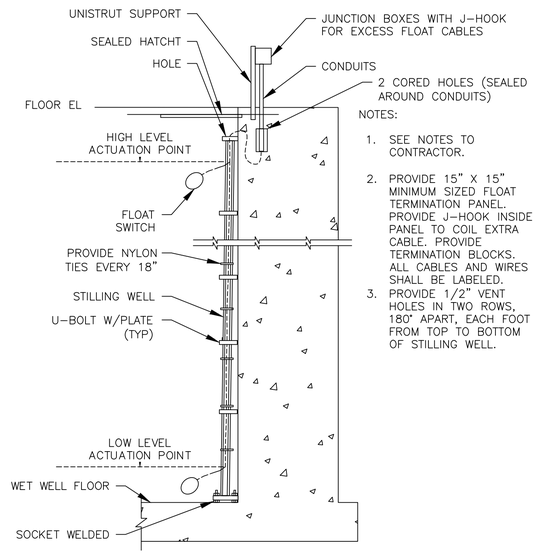


NOTES:

1. SEE NOTES TO CONTRACTOR.

pH/ORP ANALYZER AND TRANSMITTER
(FLOW-THROUGH)

DETAIL F
NTS

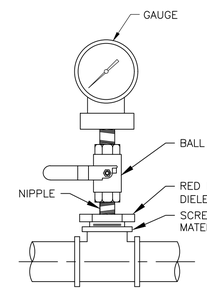


NOTES:

1. SEE NOTES TO CONTRACTOR.
2. PROVIDE 15" X 15" MINIMUM SIZED FLOAT TERMINATION PANEL. PROVIDE J-HOOK INSIDE PANEL TO COIL EXTRA CABLE. PROVIDE TERMINATION BLOCKS. ALL CABLES AND WIRES SHALL BE LABELED.
3. PROVIDE 1/2" VENT HOLES IN TWO ROWS, 180° APART, EACH FOOT FROM TOP TO BOTTOM OF STILLING WELL.

MULTIPLE TILT FLOAT SWITCH
(IN STAND-PIPE)

DETAIL G
NTS



PRESSURE GAUGE
(WITHOUT DIAPHRAGM SEAL)

DETAIL H
NTS

GEORGIA REGISTERED No. PE0L7927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B. NEAL
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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

INSTRUMENTATION DETAILS I

PROJECT NO. 20790-289282
FILE NAME: ID01PIDT.DWG

SHEET NO.
ID-1

ISSUED FOR BID

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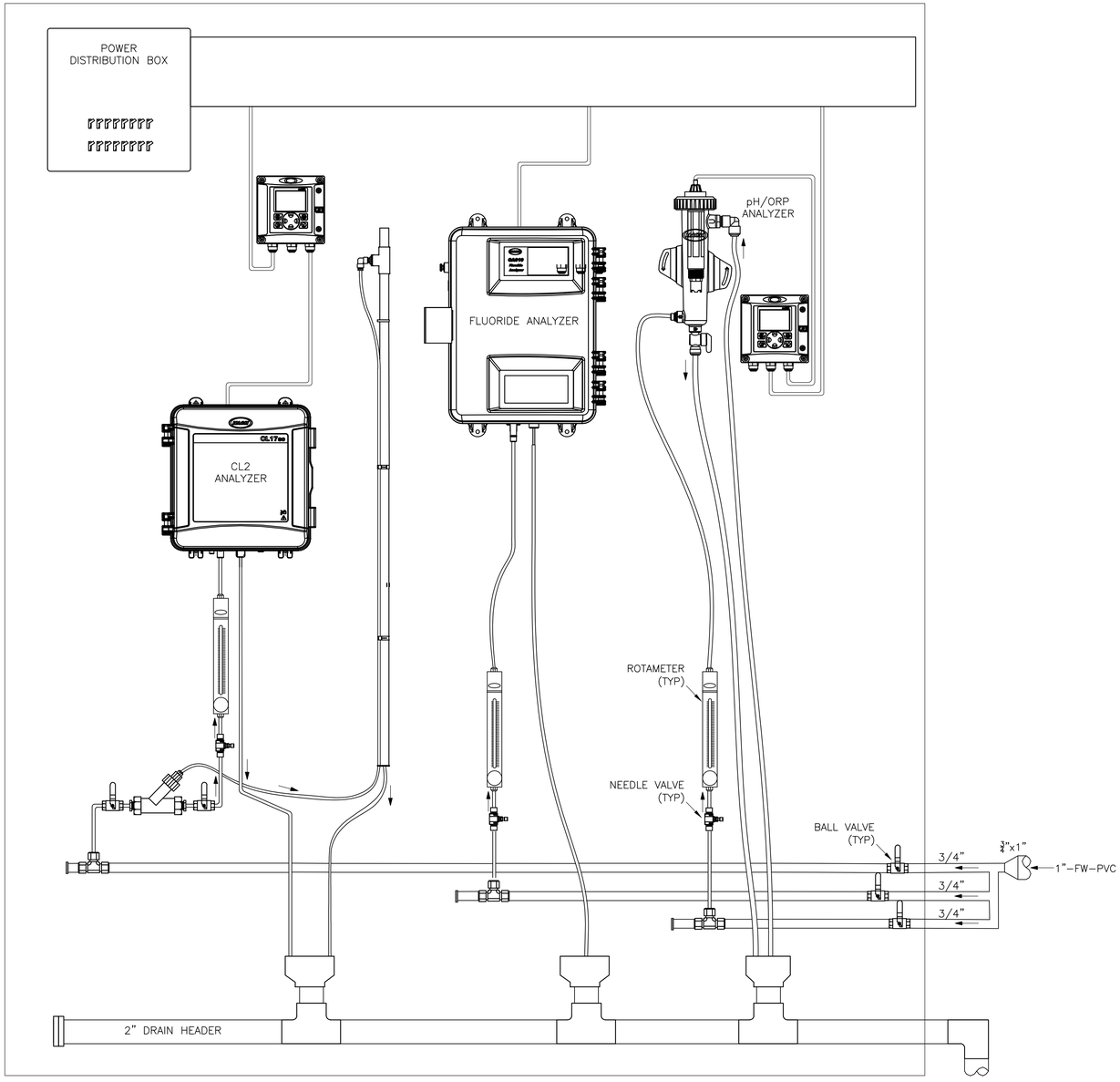

OPERATIONS BUILDING ANALYZER PANEL

DETAIL I
NTS –

GEORGIA REGISTERED No. PE047927 PROFESSIONAL ENGINEER WILLIAM SCOTT WHITMORE

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CITY OF VALDOSTA, GA

VALDOSTA WTP NO. 2
AND PRODUCTION WELLS

INSTRUMENTATION DETAILS II

PROJECT NO. 20790-289282
FILE NAME: ID02PIDT.DWG

SHEET NO.
ID-2

ISSUED FOR BID