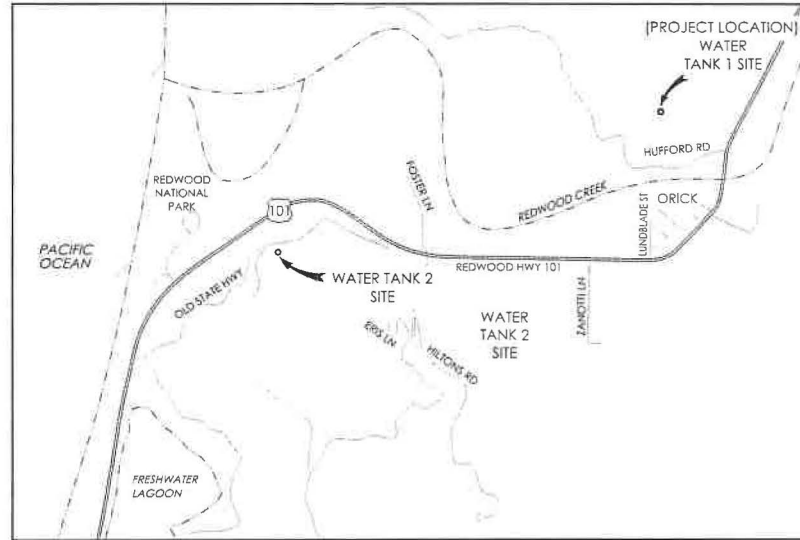
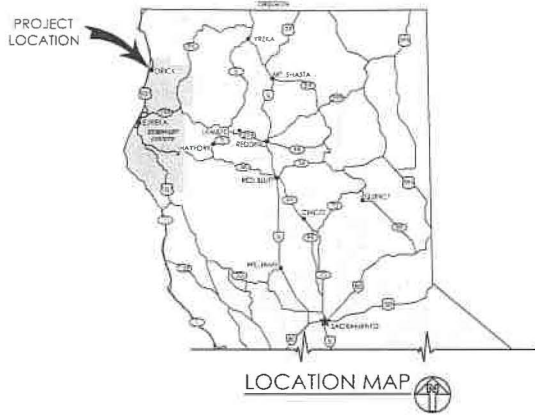


ORICK COMMUNITY SERVICES DISTRICT

ORICK COMMUNITY TANK REPLACEMENT PROJECT

TANK 1 REPLACEMENT

FUNDED IN PART BY THE STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES (DWR)
 AGREEMENT No. 4600014877



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BOARD OF DIRECTORS

- | | |
|---------------------|---------------|
| - RON BARLOW | CHAIRMAN |
| - ROBERT SECOR, JR. | VICE CHAIRMAN |
| - BYRON FRICK | BOARD MEMBER |
| - DOUG COMSTOCK | BOARD MEMBER |
| - BRIANNA DENLIS | BOARD MEMBER |

OCSD STAFF

- | | |
|----------------|---------------------|
| - TREVOR AVRAM | MAINTENANCE MANAGER |
|----------------|---------------------|

PACE DESIGN TEAM

- | | |
|-------------------|------------------------|
| - TOM WARNOCK | PROJECT MANAGER |
| - STEVE WILSON | STRUCTURAL ENGINEER |
| - TONY BOWSER | ELECTRICAL ENGINEER |
| - SEAN MCGUIGAN | STAFF ENGINEER |
| - BRYAN STUTCHMAN | ENGINEERING TECHNICIAN |

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2/16/2022

JOB NO. 3027.01

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ABBREVIATIONS - WATER/MECHANICAL

Ø	Ø	DN	DN	M	MALE or MECHANICAL	SECT	SECTION
± or PL	DIAMETER	DWG	DRAWING	MECH	MECHANICAL	SENS	SENSIBLE
AB	PLATE OR PROPERTY LINE	D/W	DRIVEWAY	MAX	MAXIMUM	SG	SUPPLY GRILLE
AC	ANCHOR BOLT, AGGREGATE BASE	E	ELECTRICAL CONDUIT	MCA	MINIMUM CIRCUIT AMPACITY	SGL	SINGLE
AD	ASBESTOS CEMENT PIPE or ASPHALT CONCRETE	[E] or EXIST	EXISTING	MCC	MOTOR CONTROL CENTER	SH or SHT	SHEET
ADDN'L	AREA DRAIN or AEROBIC DIGESTER	EA	EACH	MFR	MANUFACTURER	SHFG	SHEATHING, SHEETING
ADH AB	ADDITIONAL	EER	ENERGY EFFICIENCY RATIO	MG	MILLION GALLONS	SH	SIMILAR
AFF	ADHESIVE ANCHOR BOLT	EF	EXHAUST FAN	MH	MANHOLE	SMS	SHEET METAL SCREW
AGG or AGGR	ABOVE FINISH FLOOR	EL or ELEV	ELEVATION	MIN	MINIMUM	SOOS	SHOWN OUT OF SECTION
AIR	AGGREGATE	ELB	ELBOW	MISC	MISCELLANEOUS	SP	SPACE or SPACES or STATIC PRESSURE SPECIFICATIONS
AIR	ANALYZER INDICATING RECORDER	EMBED	EMBED or EMBEDMENT	MJ	MECHANICAL JOINT	SPEC'S	SPECIFICATIONS
AI	ANALYZER INDICATING TRANSMITTER	EN	EDGE NAILING	MOCOP	MAXIMUM OVERCURRENT PROTECTION	SQ	SQUARE
ALUM	ALUMINUM	ENGR	ENGINEER	MBS	MECHANICAL RUBBER SEAL	SS	SEWAGE SANITARY SEWER or STAINLESS STEEL
APPROX	APPROXIMATELY	EP	EDGE OF PAVEMENT	MTL	METAL	STD	STANDARD
ARV	AIR RELEASE VALVE	EQ	EQUAL	MWS	MAXIMUM WATER SURFACE	STL	STEEL
ASOV	AUTOMATIC SHUTOFF VALVE	EQUIP	EQUIPMENT	[N]	NEW	STRUCT	STRUCTURAL
ASSY	ASSEMBLY	ER	EDGE OF ROAD	NB&G	NUTS, BOLTS, & GASKETS	SW	SURFACE WASH
ASTM	AMERICAN SOCIETY FOR TESTING OF MATERIALS	ESMT	EASEMENT	NF	NEAR FACE	SWMH	STORM WATER MANHOLE
AV	AIR VALVE	ESP	EXTERNAL STATIC PRESSURE	NIC	NOT IN CONTRACT	SYM	SYMMETRICAL
BCV	BACKWATER CHECK VALVE OR BUTTERFLY CONTROL VALVE OR BALL CHECK VALVE	EW	EACH WAY	No.	NUMBER	T	TOP AND BOTTOM
BFM	BONDED FIBER MATRIX	EXP AB	EXPANSIVE ANCHOR BOLT	NPT	NATIONAL PIPE THREAD	T&B	TOP AND BOTTOM
BFV	BUTTERFLY VALVE	EXP JT	EXPANSION JOINT(S)	NTS	NOT TO SCALE	TBC	TOP BACK OF CURVE
BCV/M	BUTTERFLY VALVE W/ MOTOR ACTUATOR	EXT	EXTERIOR	O/F	OVER	TBF	TRAVELING BRIDGE FILTER
BCVP	BUCKET OPERATED BUTTERFLY VALVE	F	FENCE or FEMALE	OF	OVERFLOW	TBM	TEMPORARY BENCH MARK
BHP	BRAKE HORSE POWER	FBE	FIBER BONDED EPOXY	OC	ON CENTER	TC	TOP OF CONCRETE
BKFL	BACKFILL	FC	FLEXIBLE COUPLING	OCS	ORICK COMMUNITY SERVICES DISTRICT	TELE	TELEPHONE
BLDG	BUILDING	FCA	FLANGED COUPLING ADAPTOR	OD	OUTSIDE DIAMETER	THD	THREADED
BLK	BLOCK	FD	FRENCH DRAIN OR FLOOR DRAIN	OF	OUTSIDE FACE	THK	THICK or THICKNESS
BLKG	BLOCKING	FE	FILTERED EFFLUENT	OG	ORIGINAL GROUND	TL	TRAFFIC LID
BM	BENCH MARK OR BEAM	FF	FINISHED FLOOR or FAR FACE	OH	OVERHEAD	TN	TOE NAIL
BO	BLOW OFF or BLOCK-OUT	FG or FIN GR	FINISH GRADE	OPG or OPGN	OPENING	TOW	TOP OF WALL
BOIT	BOTTOM	FH	FIRE HYDRANT or FULL HEIGHT	OPP	OPPOSITE	TR	THRUST RESTRAINT
BV	BALL VALVE	FHWS	FLAT HEAD WOOD SCREW	PDJ	PUMP DISMANTLING JOINT	TYP	TYPICAL
BW	BACKWASH	FIN	FINISH	P&ID or PID	PROCESS INSTRUMENTATION DIAGRAM	UG	UNDER GROUND
C or C/L or C/	CENTERLINE	FL	FLOW LINE	PE	PLAIN END	ULT	ULTRASONIC LEVEL TRANSMITTER
C or COND	CONDUIT	FLA	FULL LOAD AMPS	PER	PERMETER	UNO	UNLESS NOTED OTHERWISE
CAV	COMBINATION AIR RELEASE VALVE	FLG	FLANGE	PH	PHASE	V	VENT or VENTS
CCP	CONCRETE CYLINDER PIPE	FLR	FLOOR	PNL	PANEL	VCP	VITRIFIED CLAY PIPE
CFE	COMBINED FILTER EFFLUENT	FMJA	FLANGE x MJ ADAPTER	PNT	PAINT	VERT	VERTICAL
CFM	CUBIC FEET PER MINUTE	FND	FOUNDATION	#	POUND	W	WATER
CI	CAST IRON PIPE	PFM	FEET PER MINUTE	PP	POWER POLE	W/	WITH
CIP	CAST IN PLACE	PRF	FIBER REINFORCED POLYETHYLENE	PR	PAIR	W/O	WITHOUT
CISP	CAST IRON SOIL PIPE	FTG	FOOTING	PREFAB	PREFABRICATED	WC	WATER CLOSET OR WATER COMPANY
CJ	CONTROL JOINT or CEILING JOIST	FW	FILTERED WATER	PROJ	PROJECT	WH	WARF HEAD HYDRANT
CL or CLR	CLEAR	GA	GAGE	PRSV	PRESSURE REDUCING SOLENOID VALVE	WHF	WHOLE HOUSE FAN
CLG	CEILING	GAL	GALLON	PRV	PRESSURE RELIEF VALVE	WM	WATER METER
CMP	CORRUGATED METAL PIPE	GALV	GALVANIZED	PS	PIPE SUPPORT	WS	WATER STOP or WATER SERVICE
CMU	CONCRETE MASONRY UNIT	GC	GROOVED COUPLING	PSI	POUNDS PER SQUARE INCH	WSL	WATER SERVICE LEVEL
CO	CLEAN OUT	GSP	GALVANIZED STEEL PIPE	PV	PLUG VALVE	WSP	WELDED STEEL PIPE
COL	COLUMN	GV	GATE VALVE	PVC	POLYVINYL CHLORIDE PIPE	WV	WATER VALVE
COMB	COMBINATION	HC	HALF COUPLING	PW	POTABLE WATER	WTP	WATER TREATMENT PLANT
COMP	COMPACTED or COMPOSITION SHINGLES	HDPE	HOLD DOWN or HOT DIPPED	R	RADIUS	WWTP	WASTEWATER TREATMENT PLANT
CONC	CONCRETE	HMA	HIGH DENSITY POLYETHYLENE	RCP	REINFORCED CONCRETE PIPE		
CONST	CONSTRUCTION	HORIZ	HORIZONTAL	RDW or RDWD	REDWOOD		
CONT	CONTINUOUS	HP	HORSE POWER or HEAT PUMP	RED	REDUCER		
CONTR	CONTRACTOR	HT	HEIGHT	REINF	REINFORCEMENT STEEL, REBAR		
CORP	CORPORATION	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	REQ'D	REQUIRED		
CP	COLLECTION PIPE or CONTROL PANEL	HZ	HERTZ	REST	RESTRAINED		
CPF	CORRUGATED POLYETHYLENE PIPE	I	INSTRUMENTATION	RFC	RESTRAINED FLANGED COUPLING ADAPTER		
CTR	CENTER	ID	INSIDE DIAMETER	RFCA	RESTRAINED FLANGED MECHANICAL JOINT ADAPTER		
CU	COPPER	IEER	INTEGRATED ENERGY EFFICIENCY RATIO	RFG	ROOFING		
CV	CHECK VALVE	IN WC	INCHES WATER COLUMN	RG	RETURN GRILLE		
D	DRAIN	INSUL	INSULATION	RH	ROD HOLE		
DBL	DIRECT BURIAL	INT	INTERIOR or INTERMEDIATE	RLA	RATED LOAD AMPS		
DCV	DIAPHRAGM CONTROL VALVE	INV	INVERT	RMJ	RESTRAINED MECHANICAL JOINT		
DET	DETAIL	KV	KNIFE GATE VALVE	RO	ROUGH OPENING		
DI	DUCTILE IRON or DROP INLET	L	STEEL ANGLE	ROW	RIGHT OF WAY		
DIP	DUCTILE IRON PIPE	LAT	LATENT	RPM	ROTATIONS PER MINUTE		
DIA	DIAMETER	LF	LINEAR FOOT	RSP	ROCK SLOPE PROTECTOR		
DIAPH	DIAPHRAGM	LG	LIP OF GUTTER	RW	RAW WATER		
DIM	DIMENSION	LJA	LIQUID LEVEL ANALYZER	S	SLOPE		
		LVR	LOUVER	SCH or SCHED	SCHEDULE		
				SD	STORM DRAIN		

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 0" 1"
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REVISIONS		
NO	DATE	DESCRIPTION



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DRN	RT	DATE	2/15/2023	3027.01

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 ORICK COMMUNITY TANK REPLACEMENT PROJECT TANK 1 REPLACEMENT

ABBREVIATIONS

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 PG 2 OF 23

File Date: February 9, 2023 1:28 pm. User: Admin Admin

SYMBOL LEGEND

- ▬ AGGREGATE BASE LIMIT
- ▣ AREA DRAIN
- BENCHMARK
- BOLLARD
- ⊕ CENTERLINE
- △^{CP#} CONTROL POINT
- ⤴ CULVERT
- ➔ DRAINAGE DIRECTION ARROW
- ▣ ELECTRICAL PANEL / BOX
- /○ FOUND MONUMENT AS NOTED
- ⊕ (E) FIRE HYDRANT
- ⊕ (N) FIRE HYDRANT
- ⊕ GAS METER
- ⊕ GAS VALVE
- ⊕ GUY ANCHOR
- ⊕ GRID TICK
- ⊕ HOSE BIB
- ⊕ LIGHT POLE
- ⊕ PHONE PEDESTAL
- ⊕ POLE-JOINT UTILITY
- ⊕ POLE-POWER
- ⊕ ROCK
- ⊕ RIPRAP DISSIPATOR
- ⊕ SANITARY SEWER LATERAL
- ⊕ SANITARY SEWER MANHOLE
- ⊕ SANITARY SEWER CLEANOUT / RODHOLE
- ⊕ SANITARY SEWER CAP
- ⊕ SIGN - SINGLE POLE
- ⊕ SIGN - DOUBLE POLE
- ⊕ STOP SIGN
- ⊕ STORM DRAIN CATCH BASIN
- ⊕ STORM DRAIN CATCH BASIN - TYPE 3
- ⊕ STORM DRAIN CATCH BASIN - TYPE 4
- ⊕ STORM DRAIN MANHOLE
- ⊕ TELCO BOX
- ⊕ TEST PIT
- ⊕ TREE/SHRUB
- ⊕ WATER BLOWOFF
- ⊕ WATER METER/BOX
- ⊕ (E) WATER VALVE
- ⊕ (N) WATER VALVE
- ⊕ WELL
- ⊕ SLOPE DIRECTION MARKERS
- ➔ AIRFLOW DIRECTION ARROW
- ① KEYNOTE

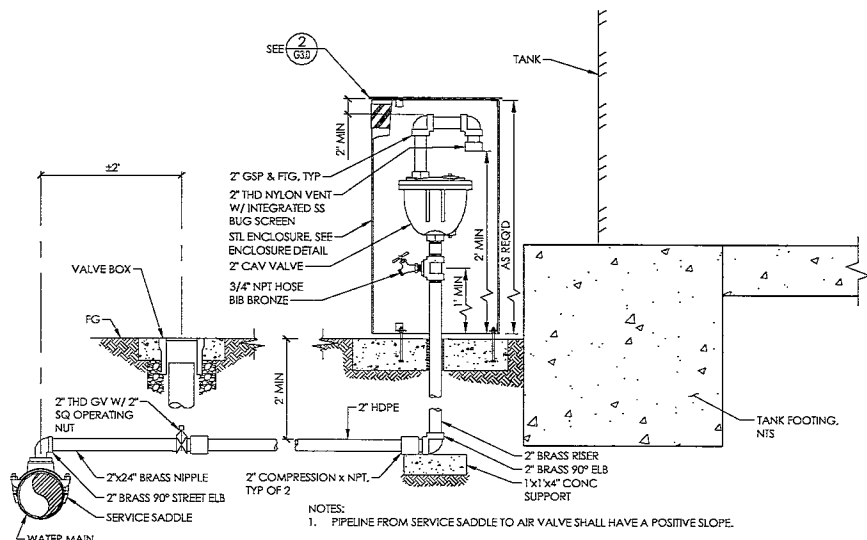
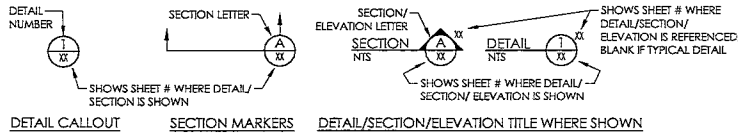
LINE LEGEND

- ▬ VERTICAL CURB
- (E) EP
- (N) EP
- (E) CONC
- (N) CONC
- PROPERTY LINE
- FLOWLINE
- (E) WATER MAIN
- (N) WATER MAIN
- (E) WATER SERVICE
- (N) WATER SERVICE
- (E) FIRE SERVICE
- (N) FIRE SERVICE
- (E) STORM DRAIN
- (N) STORM DRAIN
- (E) SANITARY SEWER
- (N) SANITARY SEWER
- (E) GAS LINE
- (N) GAS LINE

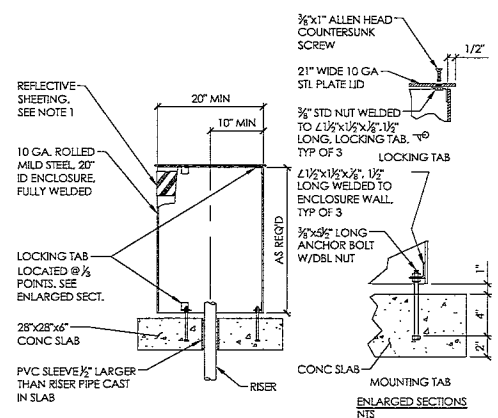
HATCH LEGEND

- ▬ (E) CONCRETE
- ▬ (N) CONCRETE
- ▬ (E) PAVEMENT
- ▬ (N) PAVEMENT (X" HMA OVER X" AB)
- ▬ (E) AB ROAD
- ▬ (N) AB ROAD
- ▬ (N) RIPRAP (4-6" COBBLES)
- ▬ (N) BUILDING
- ▬ LAWN/LANDSCAPE AREA
- ▬ DETECTABLE WARNING SURFACE

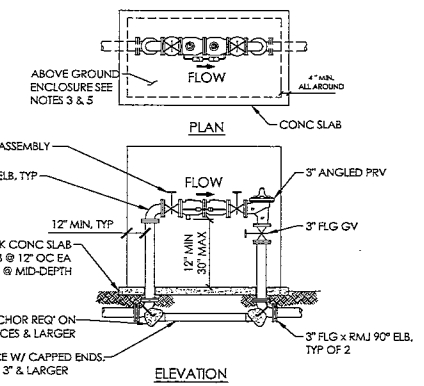
GENERAL INFORMATION



CAV DETAIL ① G3.0



- NOTES:
- REFLECTIVE SHEETING SHALL BE INSTALLED @ TOP OF EXTERIOR SIDEWALL WRAP SHEETING 360° AROUND ENCLOSURE.
 - ALL ABOVE GRADE PIPING SHALL BE INSULATED.
 - CAV SHALL BE INSULATED WITH A FLEXIBLE INSULATION COVER.
 - ALL ENCLOSURE HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
 - ALL METAL SURFACES NOT GALVANIZED SHALL BE POWDERCOATED OLIVE GREEN.



- NOTES:
- DEVICES SHALL BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENT, AS CLOSE AS PRACTICAL TO MAIN AFTER THE WATER METER.
 - DEVICES SHALL BE INSPECTED & TESTED UPON INSTALLATION BY A CERTIFIED BACKFLOW TESTER (AWWA OR ABPA).
 - DEVICES SHALL BE PLACED IN AN APPROVED ENCLOSURE SIZED FOR MAINTENANCE, TESTING &/OR REMOVAL OF DEVICE. REFER TO SPECIFICATIONS.
 - ALL ABOVE GROUND PIPING INSTALLATION SHALL BE FLANGED DI.
 - PROVIDE FREEZE PROTECTION.

REVISIONS		
NO	DATE	DESCRIPTION

PACE ENGINEERING

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DRN: RT DATE: 2/18/2023

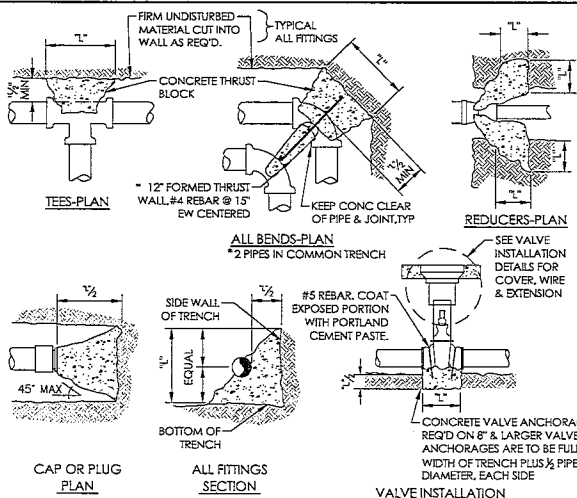
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LEGENDS

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PG 3 OF 23

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- NOTES:**
- THRUST BLOCKS SHALL BE PROVIDED AT ALL BURIED PIPE FITTINGS OF 4" DIA OR LARGER. THRUST BLOCK SIZE IS BASED ON PIPE SIZE, 150 PSI TEST PRESSURE, & SOIL BEARING OF 1200 LB/FP. DIMENSION "L" IS SHOWN IN TABLE 1 & IS BOTH A VERTICAL & HORIZONTAL DIMENSION UNLESS SHOWN OTHERWISE. IF PIPE COVER HAS BEEN APPROVED TO BE LESS THAN 30", INCREASE HORIZONTAL THRUST BLOCKS IN PROPORTION TO 30 INCHES DIVIDED BY THE ACTUAL COVER. IF TEST PRESSURE IS LESS THAN 150 PSI, THRUST BLOCK AREAS OR VOLUMES MAY BE PROPORTIONATELY SMALLER. KEEP CONCRETE FREE OF ALL JOINTS, BOLTS & NUTS.
 - USE OF A MECHANICALLY RESTRAINED FITTING IN LIEU OF A THRUST BLOCK TYPICALLY REQUIRES A NUMBER OF PIPE JOINTS TO BE RESTRAINED UP AND DOWNSTREAM OF THE FITTING. WHERE RESTRAINED FITTINGS ARE SHOWN ON THE PLANS, OR WHERE A CONTRACTOR PROPOSES TO USE A RESTRAINED FITTING IN LIEU OF A THRUST BLOCK BECAUSE OF SITE CONDITIONS, THE CONTRACTOR SHALL DETERMINE THE NUMBER OF PIPE JOINTS TO BE RESTRAINED AND SUBMIT THIS INFORMATION TO THE ENGINEER FOR REVIEW. PAYMENT FOR RESTRAINED JOINTS SHALL BE INCLUDED IN THE MOST APPLICABLE BID ITEM.

NOTE
INCREASE ALL DIMENSIONS IN TABLE 1 BY 10% TO ALLOW FOR INCREASE IN PRESSURE TO 175psf.

TABLE 1
STANDARD THRUST BLOCK MINIMUM DIMENSION "L" IN INCHES

NOMINAL PIPE DIAMETER INCHES	FITTINGS							VALVE
	TEE, WYE, OR PLUG	90° BEND	45° BEND	22½° BEND	11¼° BEND	REDUCER (BASED ON LARGEST DIA.)	VALVE	
4"	18	22	16	15	15	-	-	
6"	26	31	23	17	15	-	-	
8"	34	40	30	21	15	17	12	
10"	41	49	36	26	18	21	12	
12"	49	59	44	31	22	25	16	
14"	58	68	50	36	26	30	16	
16"	66	77	57	41	28	33	18	
18"	74	88	65	45	32	37	REQUIRES SPECIAL DESIGN	
20"	81	97	71	50	36	41	REQUIRES SPECIAL DESIGN	
24"	97	115	85	61	43	49	REQUIRES SPECIAL DESIGN	

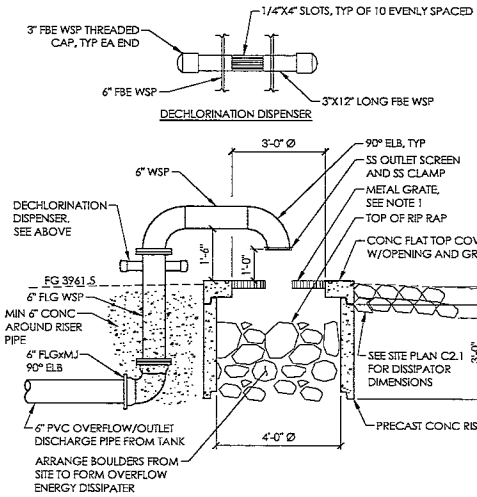
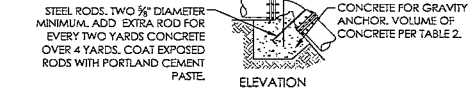
TABLE 2
VERTICAL FITTING THRUST BLOCKS

WHERE VERTICAL BENDS ARE DIRECTED WITH THE THRUST TOWARD THE BOTTOM OF THE TRENCH, THEY SHALL HAVE THRUST BLOCKS PER HORIZONTAL BENDS EXCEPT CONCRETE SHALL BEAR AGAINST THE TRENCH BOTTOM.

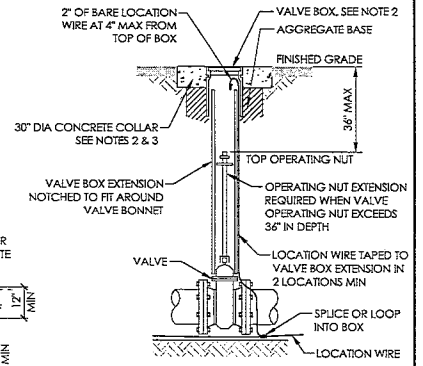
WHERE VERTICAL BENDS ARE DIRECTED WITH THE THRUST TOWARD THE TOP OF TRENCH, THEY SHALL BE INSTALLED PER THE FOLLOWING DETAIL. MINIMUM ROD EMBEDMENT SHALL BE 30 INCHES FOR 12" AND SMALLER PIPE AND 36 INCHES FOR 14" AND LARGER PIPE.

CUBIC YARDS CONCRETE FOR VERTICAL FITTINGS (SEE DETAIL BELOW)

BEND ANGLE	PIPE DIAMETER						REQUIRES SPECIAL DESIGN
	4"	6"	8"	10"	12"	14" AND OVER	
11-½°	0	0.4	0.7	0.9	1.3	1.8	REQUIRES SPECIAL DESIGN
22½°	0.4	0.8	1.3	1.8	2.5	3.4	REQUIRES SPECIAL DESIGN
45°	0.7	1.4	2.4	3.5	4.9	6.6	REQUIRES SPECIAL DESIGN
90°	1.3	2.5	4.3	6.4	9.1	12.2	REQUIRES SPECIAL DESIGN

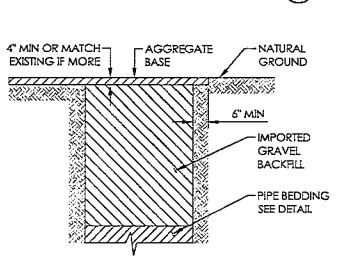


- NOTE:**
1. METAL GRATE SHALL BE GALVANIZED STEEL OR CAST IRON.

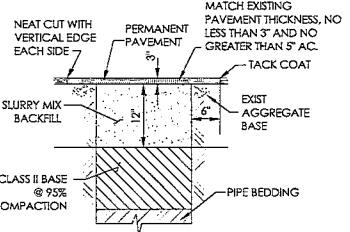


- NOTES:**
- SEE THRUST BLOCK DETAILS FOR VALVES 8" AND LARGER.
 - SET VALVE BOX AND COLLAR 1/2" BELOW GRADE IN PAVED AREAS AND 2" ABOVE IN ALL OTHER LOCATIONS.
 - CONCRETE COLLAR SHALL BE 12 INCHES THICK WHERE ANY VEHICULAR TRAFFIC IS EXPECTED AND 4 INCHES THICK IN ALL OTHER LOCATIONS.

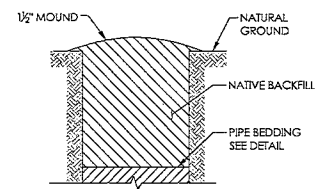
THRUST BLOCK DETAIL (1) NTS C1.0



NOTE:
CLASS "A4" WILL BE USED IN GRAVELED SHOULDERS, ALLEYS, UNDER CONCRETE UNPAVED DRIVEWAYS, AND AT OTHER LOCATIONS DESIGNATED BY THE ENGINEER.

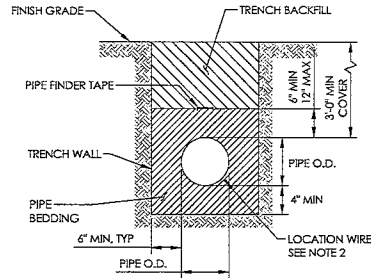


NOTE:
CLASS "A5" BACKFILL SHALL BE USED IN THE CALTRANS ROW AND WHERE INDICATED ON PLANS.



NOTES:

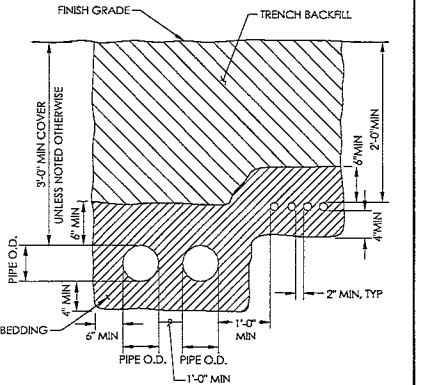
- CLASS "C" BACKFILL WILL BE USED IN AREAS WHERE VEHICLE TRAFFIC IS NOT EXPECTED AND AT THE LOCATIONS DESIGNATED BY THE ENGINEER.
- WHEN IN CULTIVATED OR LANDSCAPED AREAS THE TOP 1" OF SOIL SHALL BE REPLACED WITH EXISTING OR IMPORTED TOPSOIL. THE SURFACE SHALL BE RELEVELLED FOLLOWING INUNDATION AND TRENCH SETTLEMENT. LAWNS OR OTHER LANDSCAPING SHALL THEN BE REPLACED.



NOTES:

- FOR 2 PIPES IN COMMON TRENCH, MAINTAIN 12" CLEARANCE BETWEEN PIPES AND 6" MIN BETWEEN PIPES AND TRENCH WALL.
- FOR WATER PIPING AND PRESSURE SEWERS ONLY, ALL SPLICES SHALL BE PERFORMED WITH WATER PROOF CONNECTORS. SEE SPECIFICATIONS.

VALVE INSTALLATION DETAIL (3) NTS C1.0



MULTIPLE PIPE TRENCH DETAIL (8) NTS C1.0

THRUST BLOCK DETAIL (4) NTS C1.0

CLASS "A5" BACKFILL DETAIL (5) NTS C1.0

CLASS "C" DETAIL (6) NTS C1.0

PIPE BEDDING DETAIL (7) NTS C1.0

REVISIONS

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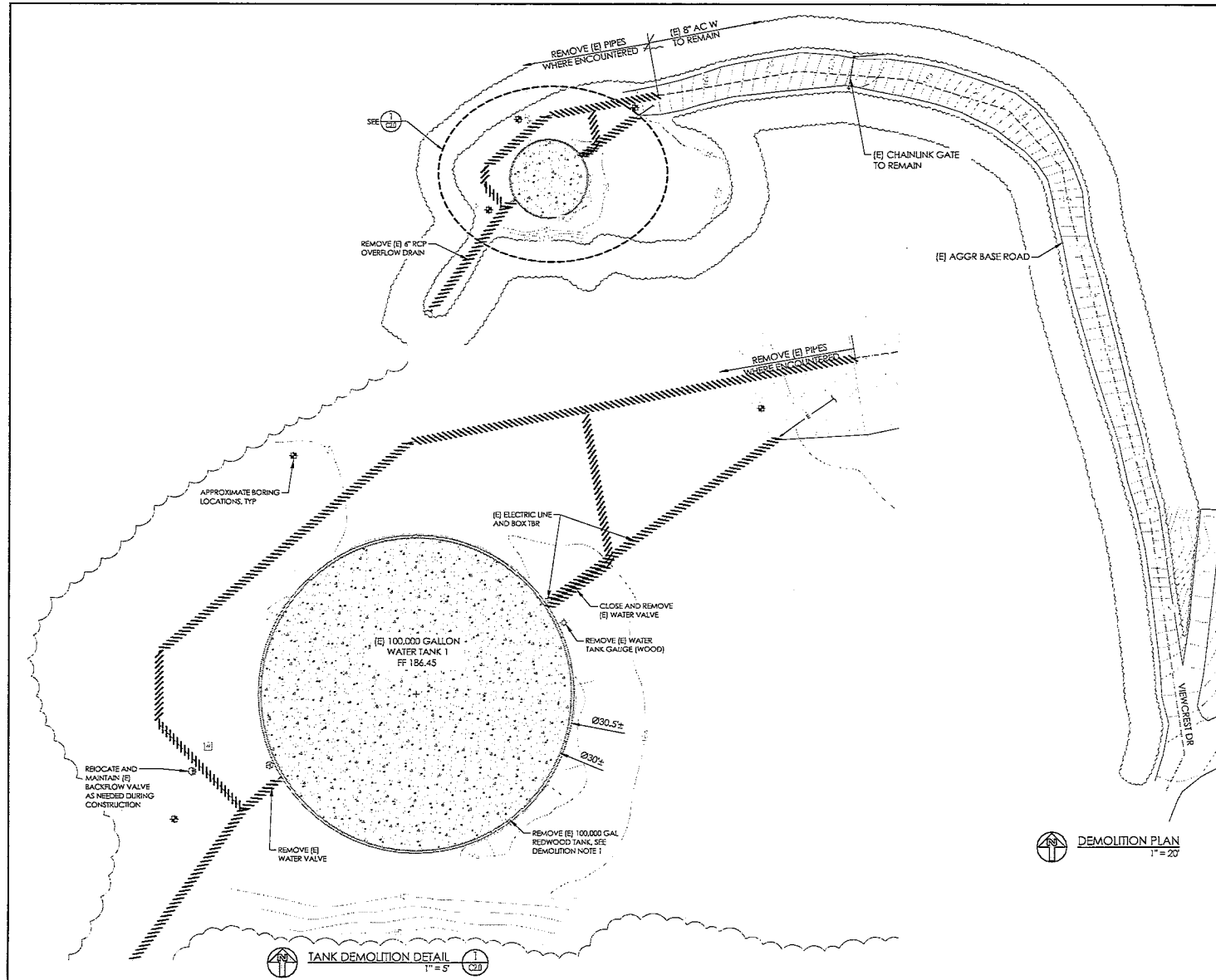
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DRN: BT
CHK: TWV
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ORICK COMMUNITY SERVICES DISTRICT
ORICK COMMUNITY TANK REPLACEMENT PROJECT TANK 1 REPLACEMENT

CIVIL DETAILS

SHEET
C1.0
PG 4 OF 23



DEMOLITION LEGEND

TBA	TO BE ABANDONED
TBR	TO BE REMOVED
(⊗)	TREES TO BE REMOVED
(---)	DEMOLITION LINE
(//)	DEMOLITION AREA (BLDG, CONC, SIDEWALK)

- SURVEY NOTES:**
1. THIS SURVEY WAS CONDUCTED ON 10/10/2022.
 2. COORDINATE SYSTEM: CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 1, (EPOCH 2017.5).
 3. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), (GEOID 18)
 4. CONTOUR INTERVAL: 1 FOOT.
 5. UNITS OF MEASUREMENT SHOWN HEREON ARE IN TERMS OF THE U.S. SURVEY FOOT AND DECIMALS THEREOF.
 6. UTILITIES/FEATURES SHOWN HEREON ARE BASED UPON ABOVE-GROUND, OBSERVED EVIDENCE ONLY.

- GENERAL NOTES:**
1. (E) AS ACCESS ROAD IS OVERGROWN W/ VEGETATION, CONTRACTOR SHALL USE 4-WHEEL DRIVE VEHICLES TO GAIN ACCESS TO SITE.
 2. (E) WATER PIPE SHOWN IN APPROXIMATE LOCATION.

- DEMOLITION NOTES:**
1. REMOVE (E) 100,000 GALLON REDWOOD WATER STORAGE TANK & FOUNDATION COMPLETE. SALVAGE STEEL HOOPS AND REDWOOD RAFTERS, STAVES, AND FLOORING SHALL BE DELIVERED IN TOWN, TO THE OWNER, OFF-LOADED AND STACKED W/ LATHE STICKERS.
 2. REMOVE (E) INLET AND OUTLET PIPING TO THE APPROXIMATE TIE IN LOCATION, LOCATE (N) GV TO PROVIDE ENOUGH LAY LENGTH FOR PIPING IMPROVEMENTS SHOWN ON SHEET M1.0.
 3. REMOVE (E) DRAIN AND OVERFLOW PIPING TO THE LIMITS OF DEMOLITION SHOWN, AND AS NEEDED TO GRADE ACCORDING TO THE TANK SITE PLAN.

DEMOLITION PLAN
1" = 20'

TANK DEMOLITION DETAIL
1" = 5'

DATE/REFERENCE ON ORIGINAL DRAWING
OF
IF NOT ONE/INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS		
NO.	DATE	DESCRIPTION



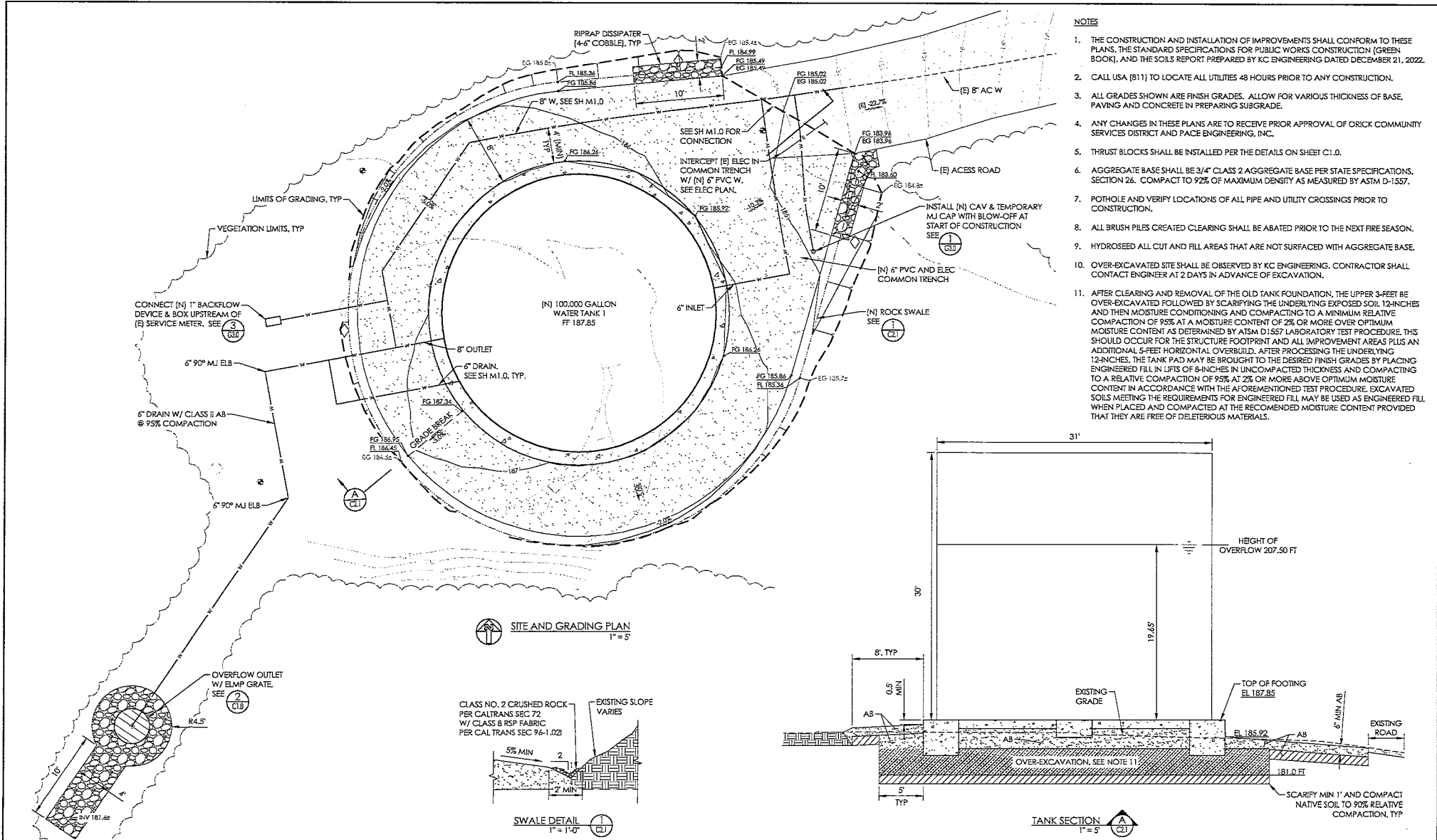
DES: TWW CKD: TWW JOB NO. 3077.01
 DRN: RT DATE: 2/10/2023

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ORICK COMMUNITY SERVICES DISTRICT
 ORICK COMMUNITY TANK REPLACEMENT PROJECT TANK 1 REPLACEMENT

DEMOLITION PLAN

SHEET
C2.0
 PG 5 OF 23



- NOTES**
1. THE CONSTRUCTION AND INSTALLATION OF IMPROVEMENTS SHALL CONFORM TO THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), AND THE SOILS REPORT PREPARED BY KC ENGINEERING DATED DECEMBER 21, 2022.
 2. CALL USA (811) TO LOCATE ALL UTILITIES 48 HOURS PRIOR TO ANY CONSTRUCTION.
 3. ALL GRADES SHOWN ARE FINISH GRADES. ALLOW FOR VARIOUS THICKNESS OF BASE, PAVING AND CONCRETE IN PREPARING SUBGRADE.
 4. ANY CHANGES IN THESE PLANS ARE TO RECEIVE PRIOR APPROVAL OF ORICK COMMUNITY SERVICES DISTRICT AND PACE ENGINEERING, INC.
 5. THRUST BLOCKS SHALL BE INSTALLED PER THE DETAILS ON SHEET C1.0.
 6. AGGREGATE BASE SHALL BE 3/4" CLASS 2 AGGREGATE BASE PER STATE SPECIFICATIONS, SECTION 26. COMPACT TO 92% OF MAXIMUM DENSITY AS MEASURED BY ASTM D-1557.
 7. POTHOLE AND VERIFY LOCATIONS OF ALL PIPE AND UTILITY CROSSINGS PRIOR TO CONSTRUCTION.
 8. ALL BRUSH PILES CREATED CLEARING SHALL BE ABATED PRIOR TO THE NEXT FIRE SEASON.
 9. HYDROSEED ALL CUT AND FILL AREAS THAT ARE NOT SURFACED WITH AGGREGATE BASE.
 10. OVER-EXCAVATED SITE SHALL BE OBSERVED BY KC ENGINEERING. CONTRACTOR SHALL CONTACT ENGINEER AT 2 DAYS IN ADVANCE OF EXCAVATION.
 11. AFTER CLEARING AND REMOVAL OF THE OLD TANK FOUNDATION, THE UPPER 3-FEET BE OVER-EXCAVATED FOLLOWED BY SCARIFYING THE UNDERLYING EXPOSED SOIL 12-INCHES AND THEN MOISTURE CONDITIONING AND COMPACTING TO A MINIMUM RELATIVE COMPACTION OF 95% AT A MOISTURE CONTENT OF 2% OR MORE OVER OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557 LABORATORY TEST PROCEDURE. THIS SHOULD OCCUR FOR THE STRUCTURE FOOTPRINT AND ALL IMPROVEMENT AREAS PLUS AN ADDITIONAL 5-FEET HORIZONTAL OVERBUILD. AFTER PROCESSING THE UNDERLYING 12-INCHES, THE TANK PAD MAY BE BROUGHT TO THE DESIRED FINISH GRADES BY PLACING ENGINEERED FILL IN LIFTS OF 8-INCHES IN UNCOMPACTED THICKNESS AND COMPACTING TO A RELATIVE COMPACTION OF 95% AT 2% OR MORE ABOVE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH THE AFOREMENTIONED TEST PROCEDURE. EXCAVATED SOILS MEETING THE REQUIREMENTS FOR ENGINEERED FILL MAY BE USED AS ENGINEERED FILL WHEN PLACED AND COMPACTED AT THE RECOMMENDED MOISTURE CONTENT PROVIDED THAT THEY ARE FREE OF DELETERIOUS MATERIALS.

DATE & NUMBER ON ORIGINAL DRAWING
 IF NOT CHECKED ON THIS SHEET, QUOTE SCALES ACCORDINGLY.

REVISIONS		
NO.	DATE	DESCRIPTION

PACE ENGINEERING

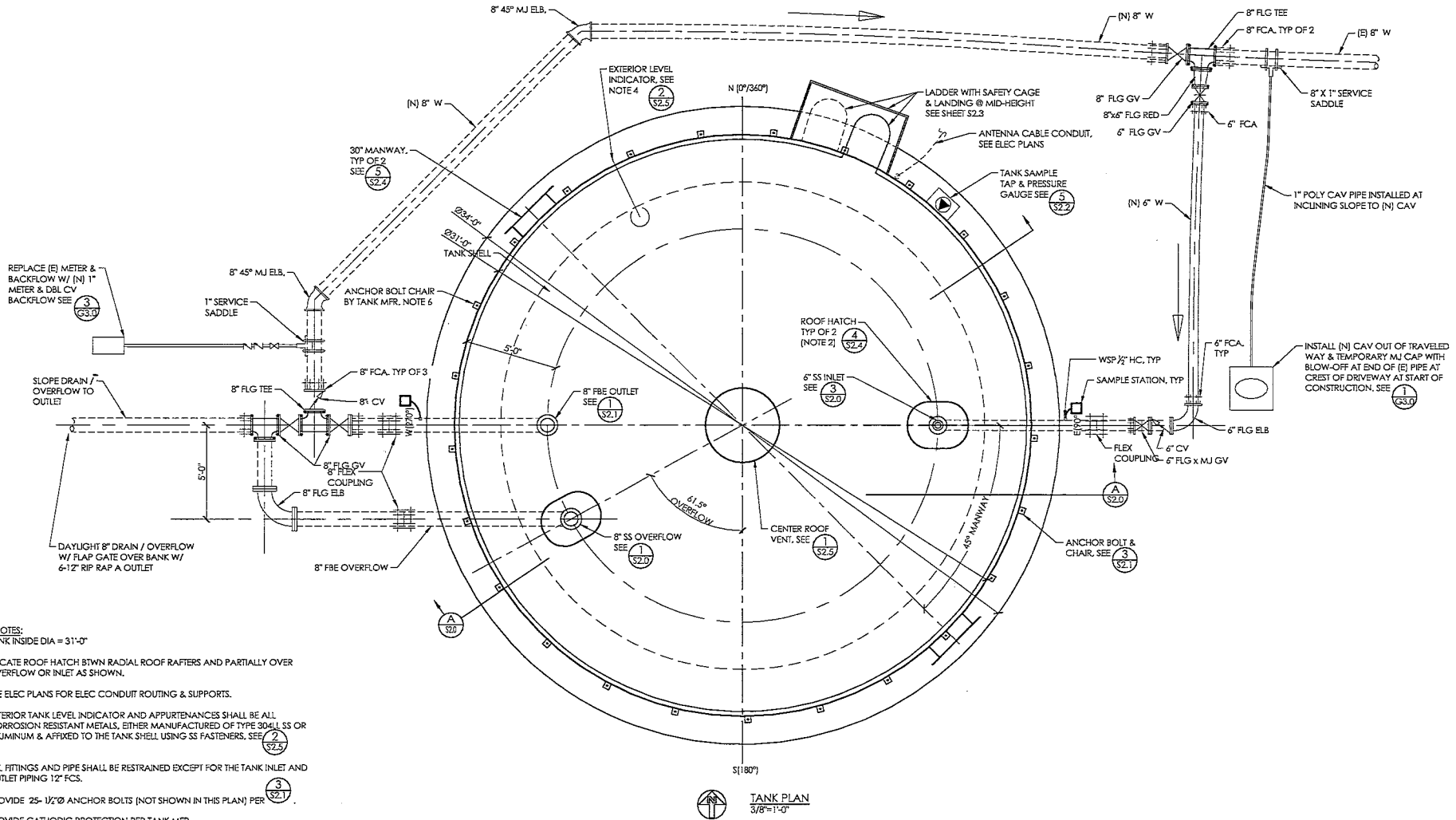
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 DRW: BT / DATE: 2/10/2023

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ORICK COMMUNITY SERVICES DISTRICT
 ORICK COMMUNITY TANK REPLACEMENT PROJECT TANK 1 REPLACEMENT
 SITE AND GRADING PLAN

SHEET
C2.1
 PG 6 OF 23

PL 0208 - February 8, 2023 - 10:51 am - Top View (plan view)



- TANK NOTES:**
- TANK INSIDE DIA = 31'-0"
 - LOCATE ROOF HATCH BTWN RADIAL ROOF RAFTERS AND PARTIALLY OVER OVERFLOW OR INLET AS SHOWN.
 - SEE ELEC PLANS FOR ELEC CONDUIT ROUTING & SUPPORTS.
 - EXTERIOR TANK LEVEL INDICATOR AND APPURTENANCES SHALL BE ALL CORROSION RESISTANT METALS, EITHER MANUFACTURED OF TYPE 304L SS OR ALUMINUM & AFFIXED TO THE TANK SHELL USING SS FASTENERS, SEE (2) S2.5
 - ALL FITTINGS AND PIPE SHALL BE RESTRAINED EXCEPT FOR THE TANK INLET AND OUTLET PIPING 12" FCS.
 - PROVIDE 25-1/2" ANCHOR BOLTS (NOT SHOWN IN THIS PLAN) PER (3) S2.1
 - PROVIDE CATHODIC PROTECTION PER TANK MFR, SEE SHEET S2.2.

BAR IS ONE INCH ON ORIGINAL DRAWING
 0" 1"
 IF NOT ONE INCH ON THIS SHEET, MUST SCALE ACCORDINGLY.

REVISIONS	
NO	DATE

PACE ENGINEERING

DES: TMM / CKD: TMM / JOB NO. 3021-01
 DRN: BTBMS / DATE: 2/10/2025

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ORICK COMMUNITY SERVICES DISTRICT
 ORICK COMMUNITY TANK REPLACEMENT PROJECT TANK 1 REPLACEMENT

TANK MECHANICAL

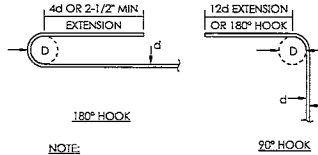
SHEET
M1.0
 PG 7 OF 23

COPY HERE THROUGH

		λ _s SPLICE LENGTH TABLE (SEE NOTES)												28 DAY DESIGN COMPR STRENGTH				
BAR SIZE		3	4	5	6	7	8	9		10		11						
SPLICE LENGTH (IN)	MIN COVER	3/4	3/4	3/4	1	1	1	2	1	2	2 1/2	1	2	3	2000 psi			
	TOP BAR	26	34	43	51	61	81	69	146	102	77	185	130	93		227	159	114
	OTHER	20	27	33	39	48	62	53	111	78	59	142	99	71		174	123	87
	TOP BAR	23	31	39	46	55	73	62	131	91	69	166	117	84		204	143	102
	OTHER	18	24	30	35	43	56	47	100	70	53	128	89	64		156	110	78
	TOP BAR	21	28	35	42	50	66	56	119	83	63	151	106	76		185	130	93
OTHER	16	22	27	32	39	51	43	97	64	48	116	81	58	142	100	71		
TOP BAR	18	24	30	36	43	57	48	103	72	55	131	92	65	160	112	80		
OTHER	16	19	23	28	33	44	37	79	56	42	101	70	50	123	86	62		

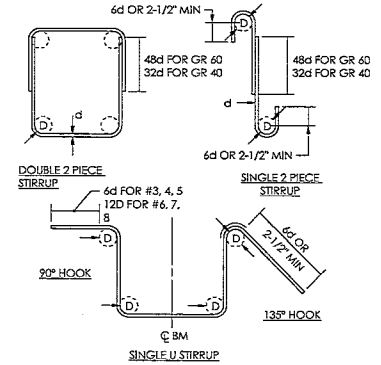
- NOTES:
- TOP BARS INCLUDE HORIZONTAL BARS IN WALLS, BEAMS, FOOTINGS AND SLABS WITH MORE THAN 12 INCHES OF CONC CAST BELOW THE BAR.
 - SEE PLANS FOR ACTUAL COVER.
 - LAP SPLICE LENGTH SPECIFIED ELSEWHERE ON THE DRAWINGS SHALL GOVERN OVER THIS TABLE.

CONCRETE REINF. SPLICE TABLE 1
NTS



NOTE:
D = 6d FOR #3 THRU #8 BARS
D = 8d FOR #9, 10, 11 BARS

STANDARD REBAR ENDS 2
NTS



NOTE:
D = MIN TAILS FOR SEISMIC USE SHALL BE 10d
D = 4d FOR #3, 4, 5 BARS AND
D = 6d FOR #6, 7, 8 BARS

		ADHESIVE ANCHOR INSTALLATION TABLE IN CONCRETE AND CMU											
		HILTI HY - 200 ADH						SIMPSON SET-XP ADH					
ROD/REBAR Ø		3/8	1/2	5/8	3/4	7/8	1	3/8	1/2	5/8	3/4	7/8	1
DRILL BIT Ø	ROD	7/16	9/16	3/4	7/8	1	1 1/8	1/2	5/8	3/4	7/8	1	1 1/8
	REBAR	1/2	5/8	3/4	7/8	1	1 1/8	1/2	5/8	3/4	7/8	1	1 1/8
MAXIMUM ROD INSTALLATION TORQUE (FT-LBS)		15	30	60	100	125	150	10	20	30	45	60	80

- NOTES FOR INSTALLATION IN CONCRETE:
- INSTALLATION SHALL BE IN ACCORDANCE W/ MNFRS EVALUATION REPORT (ICC ESR - 3187 FOR HILTI & ICC ESR - 2508 FOR SIMPSON) & INSTALLATION INSTRUCTIONS.
 - SPECIAL INSPECTION IS REQ'D DURING INSTALLATION.
 - MINIMUM BOLT EMBEDMENT & EDGE DISTANCE SHALL BE AS SHOWN ON THE DWGS.
 - THRD ROD SHALL BE ASTM A36, ASTM F1554 GR 36, OR HILTI HAS - V - 36. WHERE SSTL ANCHORS ARE NOTED ON THE DRAWINGS, USE ASTM A193 GR 88 (TYPE 304SS), OR HILTI HAS - R 304SS.
 - EXISTING REINF STEEL SHALL BE LOCATED PRIOR TO ADH ANCHOR INSTALLATION.

- NOTES FOR INSTALLATION IN THE FACE OF FULLY GROUTED CMU:
- THE TABLE AND NOTES ABOVE FOR INSTALLATION IN CONCRETE APPLY EXCEPT AS NOTED IN 2 & 3 BELOW
 - INSTALLATION SHALL BE IN ACCORDANCE W/ MNFRS EVALUATION REPORT (ICC ESR - 3963 FOR HILTI & LAPMO ER 265 FOR SIMPSON) & INSTALLATION INSTRUCTIONS.
 - WHEN USING SIMPSON SET-XP EPOXY IN CMU, ANCHORS SHALL HAVE 4" MINIMUM EDGE AND END DISTANCE AND ANCHORS SHALL NOT BE LOCATED WITH 1 1/2" OF HEAD JOINTS PER MFR INSTRUCTIONS.

ADHESIVE ANCHOR INSTALLATION TABLE 4
NTS

3/8" & ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADD STARS ACCORDINGLY

REVISIONS		
NO.	DATE	DESCRIPTION



DES: SPW
DWN: JF

CKD: SPW
DATE: 2/19/23

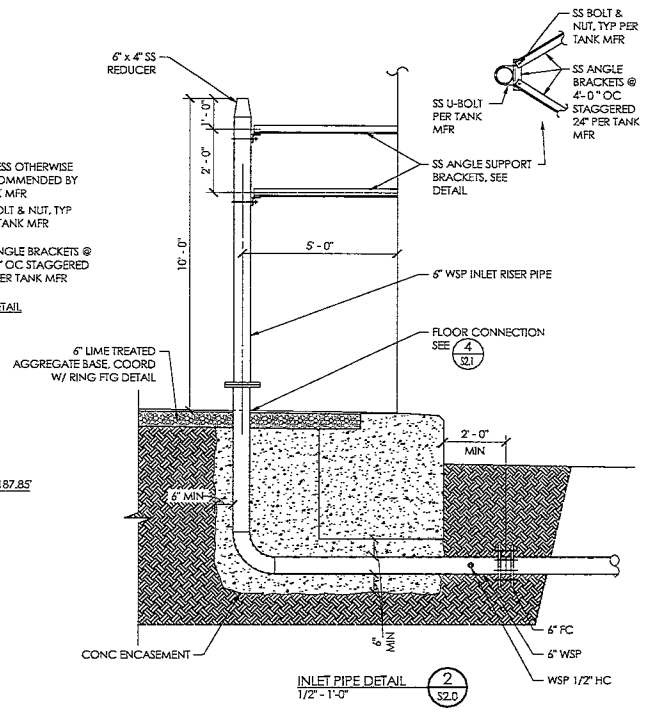
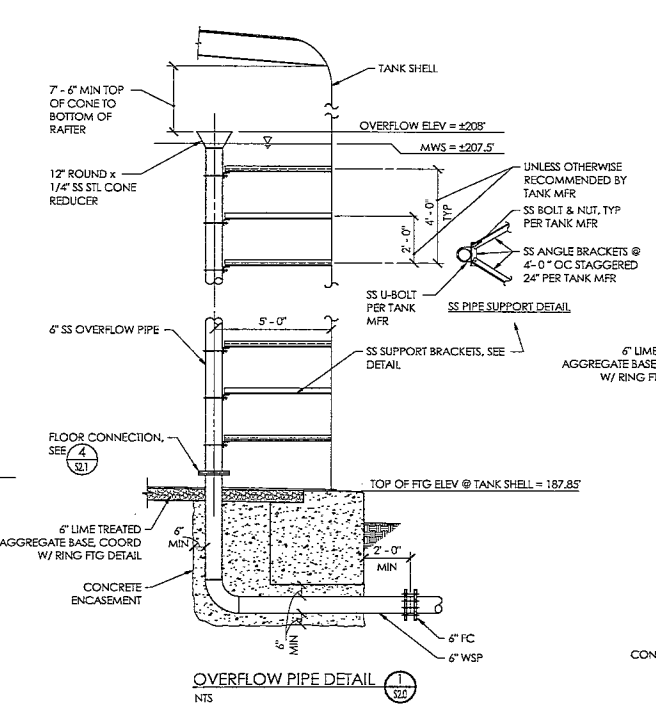
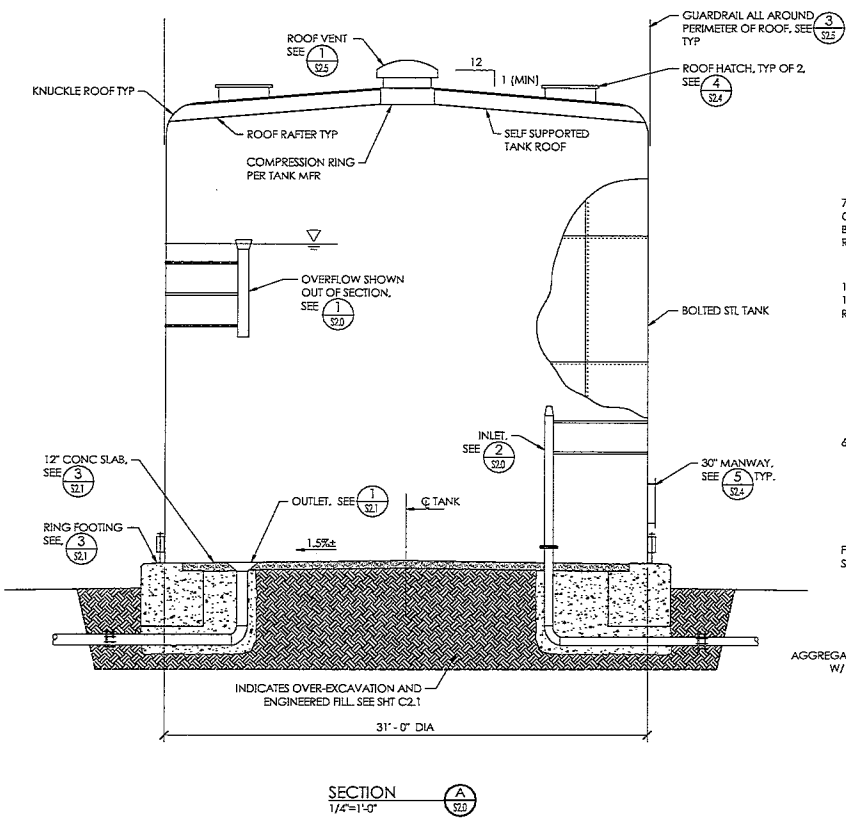
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ORICK COMMUNITY SERVICES DISTRICT
WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

TYPICAL DETAILS

SHEET
S1.0
PG 8 OF 23



SEE 8 ONE INCH ON ORIGINAL DRAWING

0" = 1'-0"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS		
NO	DATE	DESCRIPTION

PACE ENGINEERING

DES: SPW CKD: SPW JOB NO.: 3072.01

DWN: JF DATE: 2/10/23

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ORICK COMMUNITY SERVICES DISTRICT

WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

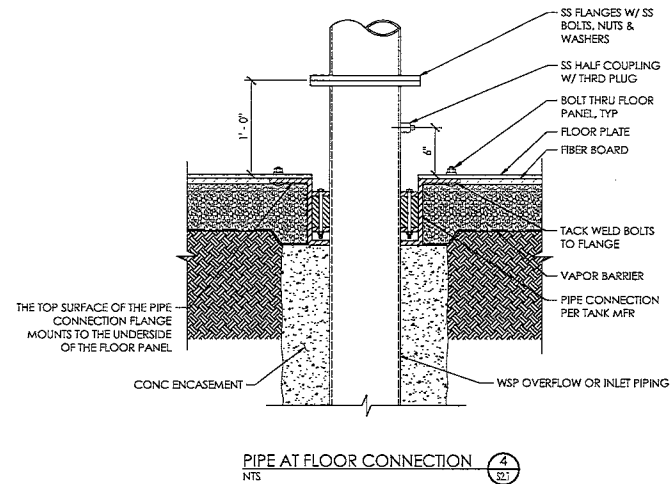
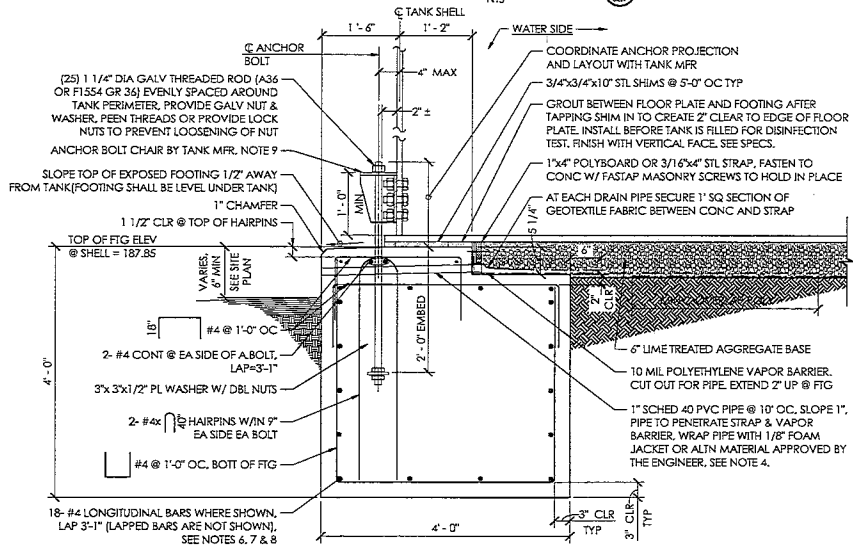
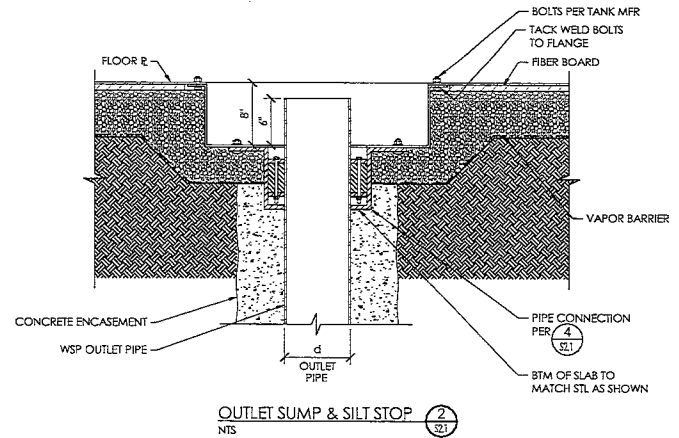
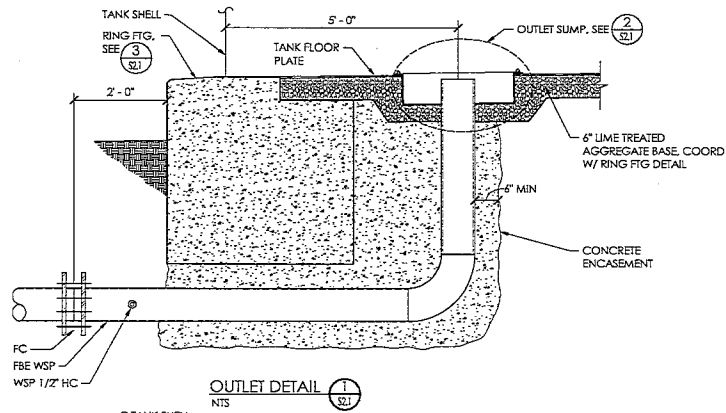
TANK SECTIONS & DETAILS

SHEET

S2.0

PG 9 OF 23

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- NOTES:
1. ALL LOOSE MATERIAL SHALL BE REMOVED FROM FOOTING TRENCHES.
 2. ALL FOOTING EXCAVATIONS SHALL BE OBSERVED BY THE ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.
 3. CONCRETE SHALL BE PLACED NEAT BELOW ORIGINAL GRADE.
 4. DRAIN PIPE TO BE FLUSH WITH EXTERIOR FOOTING. AFTER CONIC FOOTING FORMS HAVE BEEN REMOVED, REMOVE FOAM JACKET 3/8" BACK AND FILL ANNULAR SPACE WITH GRAY SIKA-FLEX POLYURETHANE SEALANT.
 5. GEOTECHNICAL ENGINEER TO EVALUATE EXISTING SOIL CONDITIONS PRIOR TO OVER-EXCAVATION AND FILL PLACEMENT AND ALSO AFTER FOOTING TRENCH EXCAVATION.
 6. VERTICAL CLEARANCE BETWEEN LONGITUDINAL BARS SHALL BE 2 BAR DIA MINIMUM.
 7. LONGITUDINAL BAR SPLICES SHALL OCCUR IN ALTERNATE HORIZONTAL ROWS AND SHALL BE STAGGERED HORIZONTALLY (CENTER OF LAP BELOW TO CENTER OF LAP ABOVE) BY A MINIMUM DISTANCE OF 3'-0".
 8. BARS SHALL BE PRE-BENT IN SHOP TO CORRECT RADIUS PRIOR TO INSTALLATION.
 9. ANCHOR BOLTS AND CHAIRS SHALL BE INSTALLED TO AVOID CONFLICT WITH LADDER AND OTHER APPURTENANCES.

RING FOOTING DETAIL (3)
NTS

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THE SHEET, ABOVE SCALES ACCORDINGLY

REVISIONS		
NO.	DATE	DESCRIPTION



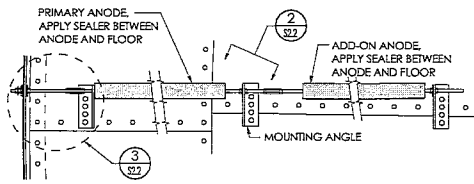
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DWN: JE DATE: 2/10/23 3027.01

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WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

TANK DETAILS

SHEET
S2.1
PG 10 OF 23

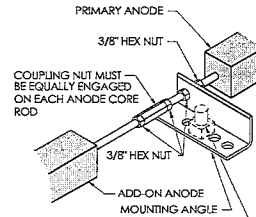


USAGE AQUASTORE STEEL FLOOR FOUNDATION PLAN VIEW OF ANODE IN ASSEMBLED POSITION

NOTES:

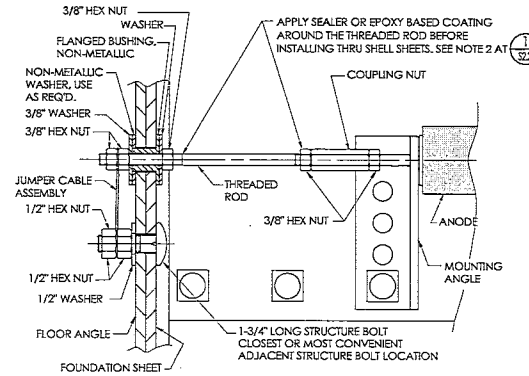
1. THIS CONSTRUCTION DETAIL IS INTENDED TO SHOW THE CATHODIC PROTECTION SYSTEM AS INSTALLED. SEE MFR FOR DETAILED INSTALLATION INSTRUCTIONS.
2. ALL NSF APPROVED SEALERS AND EPOXY BASED COATINGS USED WHEN INSTALLING THE CATHODIC PROTECTION SYSTEM ARE TO BE SUPPLIED BY THE BUILDER.

CATHODIC PROTECTION DETAIL 1
NTS

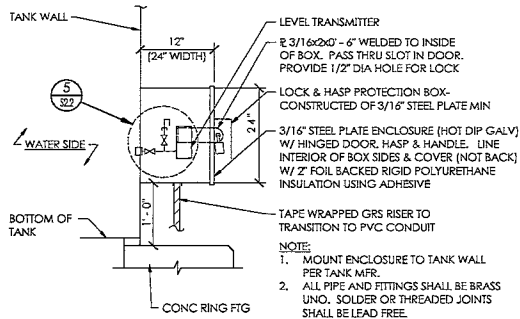


INSTALL ENCAPSULATED NUT AS PROVIDED IN THE AQUASTORE STEEL FLOOR FOUNDATION ASSEMBLY. NOTE: STRUCTURE BOLT IN GLASS FLOOR APPLICATIONS MAY BE FLUSH WITH OR SLIGHTLY BELOW NUT FACE.

CATHODIC PROTECTION DETAIL 2
NTS

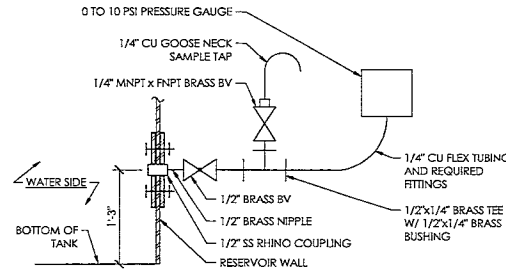


CATHODIC PROTECTION DETAIL 3
NTS



LEVEL TRANSMITTER 4
NTS

- NOTE:
1. MOUNT ENCLOSURE TO TANK WALL PER TANK MFR.
 2. ALL PIPE AND FITTINGS SHALL BE BRASS UNO. SOLDER OR THREADED JOINTS SHALL BE LEAD FREE.



DETAIL 5
NTS

- NOTE:
1. UNIONS TO BE INSTALLED FOR DISASSEMBLY

SEE 1/8" DIMENSION ON ORIGINAL DRAWINGS
IF NOT ONE INCH ON THESE ADDED SCALES ACCORDINGLY

REVISIONS		
NO.	DATE	DESCRIPTION



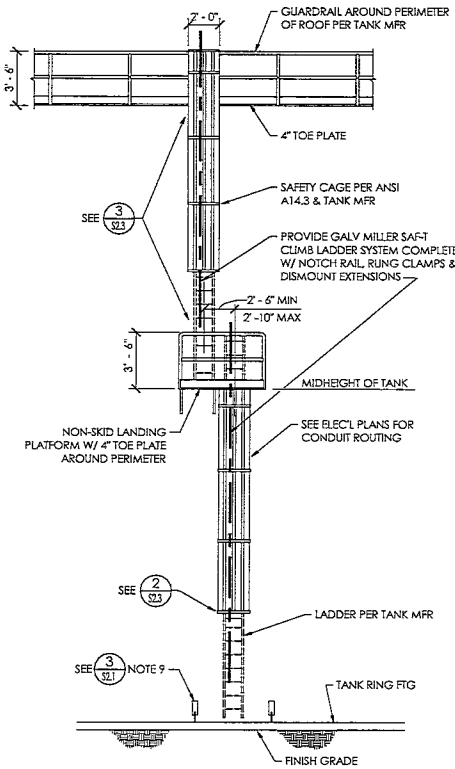
DES: SPW
DWN: JF
CRD: SPW
DATE: 2/10/23
JOB NO.: 3022.01

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ORICK COMMUNITY SERVICES DISTRICT
WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

TANK DETAILS

SHEET
S2.2
PG 11 OF 23

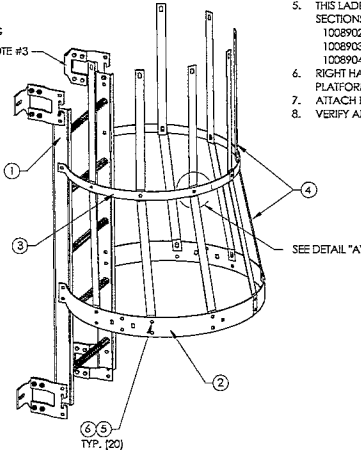


- GENERAL NOTES:**
1. ALL STEEL COMPONENTS ARE HOT DIP GALVANIZED.
 2. FASTEN COMPONENTS TOGETHER USING 1/2" DIA. HEX HD CAP SCREW SETS.
 3. LADDER BRACKET ASSEMBLIES ARE SHOWN FOR REFERENCE ONLY. POSITION OF THE BRACKETS TO BE DETERMINED DURING INSTALLATION. SEE PROJECT SUBMITTAL DOCUMENTATION FOR BRACKET TYPE AND QUANTITY REQUIREMENTS.
 4. THIS LADDER SECTION IS CONNECTED AT THE BOTTOM TO ANY ONE OF THE LADDER SECTIONS ILLUSTRATED ON THE FOLLOWING CONSTRUCTION DETAIL DRAWINGS:
 1008902 LADDER SECTION - INTERMEDIATE
 1008903 LADDER SECTION - TOP
 1008109 LADDER AND PLATFORM SECTION - OPEN TOP
 1008900 LADDER AND MANWAY PLATFORM SECTION

POSITION ALL FASTENERS SUCH THAT THE CAP SCREW HEAD IS ON THE INSIDE OF THE SAFETY CAGE ASSEMBLY

DETAIL "A"

ITEM	DESCRIPTION	QTY.
7	WASHER, 1/2"	20
6	NUT - 1/2" HEX	20
5	HHCS - 1/2" X 1 1/2" LG	20
4	STRINGER, 22"	14
3	LADDER CAGE HOOP HALF, INTERMEDIATE SINGLE	2
2	LADDER CAGE HOOP HALF, BOTTOM FLARED DOUBLE	2
1	LADDER ASSEMBLY, SHORT	1
-	SHORT BOTTOM LADDER & SAFETY CAGE KIT	-

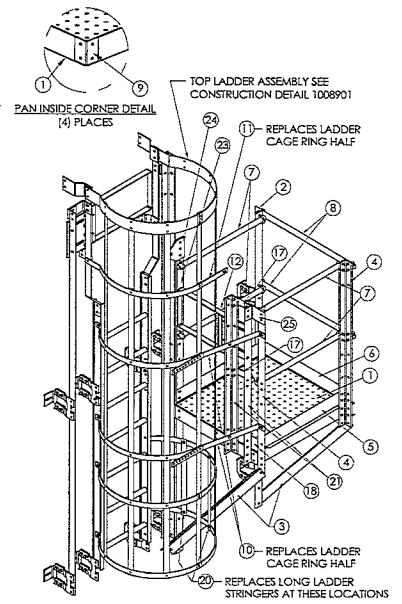


LADDER BOTTOM
NTS

- GENERAL NOTES:**
1. ALL STEEL COMPONENTS ARE HOT DIP GALVANIZED.
 2. FASTEN COMPONENTS TOGETHER USING 1/2" DIA. HEX HD CAP SCREW SETS. USE 1" U-BOLT SETS TO CONNECT HANDRAILS TO POSTS. FASTENER USAGE FOR ASSEMBLY OF THIS SECTION IS AS FOLLOWS:
 SET OF 1/2" X 1 1/2" LONG (ITEM #15 AND 22) AT ALL JOINTS EXCEPT HANDRAIL CONNECTIONS.
 SET OF 1" U-BOLT W/ NUTS & WASHERS (ITEM #13 AND 14) AT HANDRAIL CONNECTIONS TO POSTS.
 3. POSITION OF THE PLATFORM BRACKETS TO BE DETERMINED DURING INSTALLATION. SEE PROJECT SUBMITTAL DOCUMENTATION FOR BRACKET TYPE AND QUANTITY REQUIREMENTS.
 4. ATTACH SAFETY GATE (ITEM #12) AT THE OPEN SIDE OF THE PLATFORM USING THE 5/8" HARDWARE THAT COMES WITH THE SAFETY GATE. POSITION GATE SO THAT IT CAN BE PUSHED TO ACCESS THE PLATFORM FROM THE LADDER AND MUST BE PULLED OPEN TO ACCESS THE LADDER FROM THE PLATFORM.
 5. THIS LADDER SECTION IS CONNECTED AT THE BOTTOM TO ANY ONE OF THE LADDER SECTIONS ILLUSTRATED ON THE FOLLOWING CONSTRUCTION DETAIL DRAWINGS:
 1008902 LADDER SECTION - INTERMEDIATE
 1008903 LADDER SECTION - LONG BOTTOM
 1008904 LADDER SECTION - SHORT BOTTOM
 6. RIGHT HAND PLATFORM MOUNT IS SHOWN. DEPENDENT ON SITE REQUIREMENTS, THE PLATFORM MAY BE MOUNTED ON THE LEFT HAND SIDE OF THE LADDER.
 7. ATTACH PIPE CAPS (ITEM #19) TO EACH HANDRAIL, ONE ON EACH END.
 8. VERIFY ALL QUANTITIES SHOWN.

ITEM	DESCRIPTION	QTY.
25	CORNER POST CLIP	1
24	ANCHOR CLIP	1
23	MANWAY PLATFORM VERTICAL SUPPORT	1
22	WASHER, 1/2"	60
21	HANDRAIL POST, SWING GATE	2
20	STRINGER, 22"	2
19	PIPE CAP	16
18	TOEBOARD, REST PLATFORM OPENING	2
17	HANDRAIL, REST PLATFORM OPENING	2
16	NUT - 1/2" HEX	60
15	HHCS - 1/2" X 1 1/2" LG	60
14	WASHER, 3/8"	32
13	U-BOLT 1" W/ NUTS	16
12	SAFETY GATE, 18"	1
11	CAGE BAND, SHORT	1
10	CAGE BAND, SHORT	2
9	LADDER REST PLATFORM CORNER CLIP	4
8	HANDRAIL - REST PLATFORM, SIDE	2
7	HANDRAIL - REST PLATFORM, FRONT/BACK	4
6	TOEBOARD - REST PLATFORM, SIDE	1
5	TOEBOARD - REST PLATFORM, FRONT/BACK	2
4	HANDRAIL - REST PLATFORM	2
3	TOP PLATFORM DIAGONAL SUPPORT	2
2	MANWAY PLATFORM VERTICAL SUPPORT	1
1	REST PLATFORM PAN	1
-	MANWAY PLATFORM KIT	-

LADDER TOP & PLATFORM
NTS



NOTE:
IF DISTANCE FROM TOP OF FIG TO TOP OF TANK IS LESS THAN 30', LANDING PLATFORM IS NOT REQUIRED.

ELEVATION
1/4" = 1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION

PACE ENGINEERING

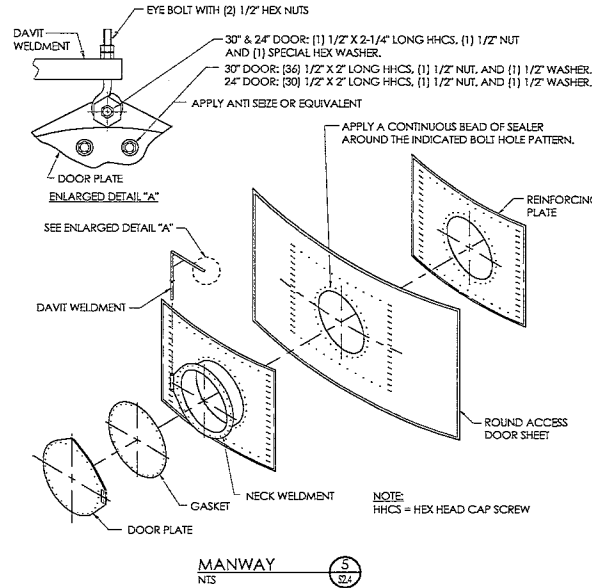
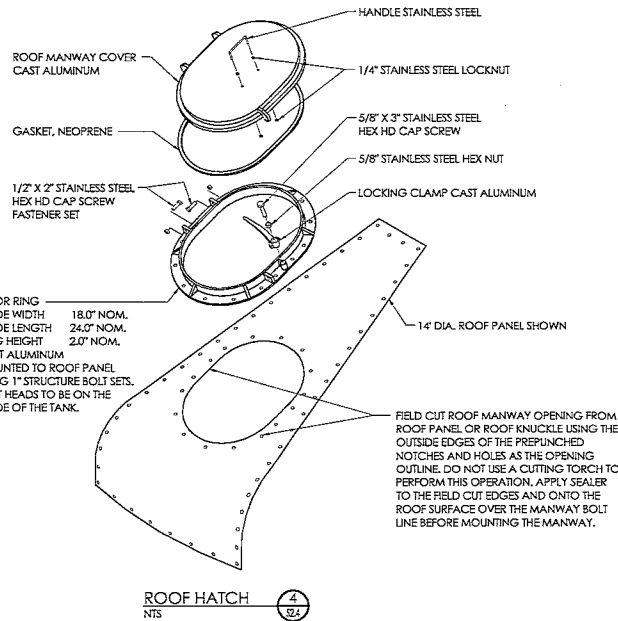
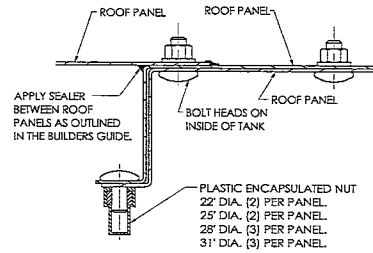
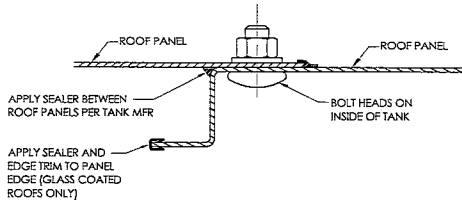
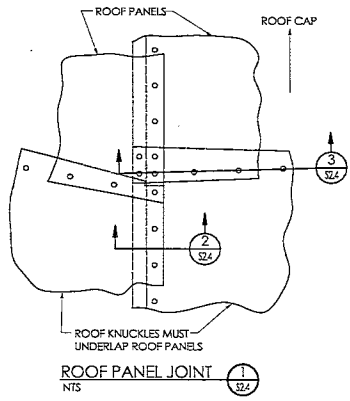
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 WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

TANK DETAILS

SHEET
S2.3
 PG. 12 OF 23



REVISIONS		
NO	DATE	DESCRIPTION

PACE
ENGINEERING

DES: SPW CKD: SPW JCS NO: 3027.01
 DRN: JF DATE: 2/10/23

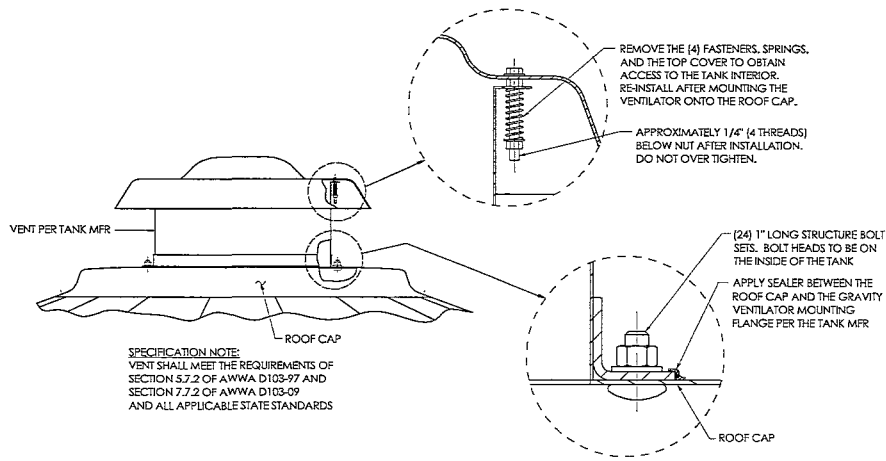
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TANK DETAILS

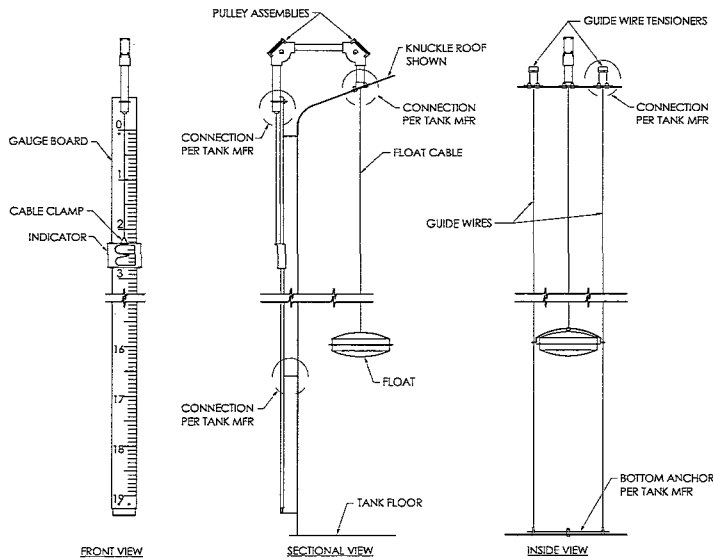
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 PG 13 OF 23

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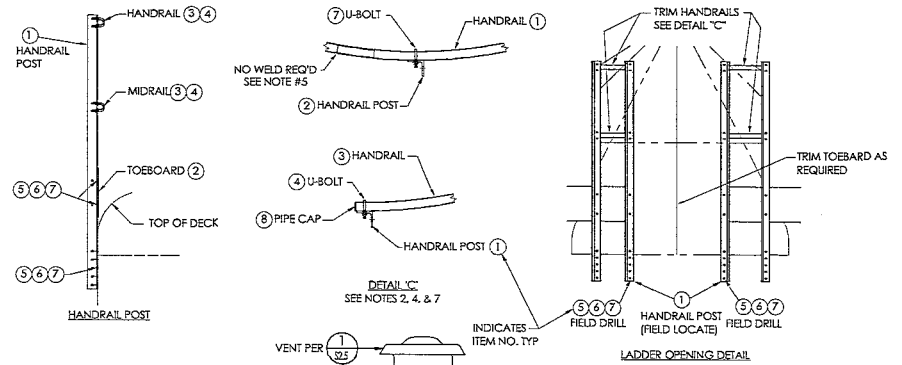


GRAVITY VENTILATOR GENERAL CONSTRUCTION:
HOUSING COVER AND SUPPORT MEMBERS - ALUMINUM
INSECT SCREEN - 23 TO 25 MESH .0135"/.0145" DIA. POLYESTER MONOFILAMENT WIRE
BIRD SCREEN - .063 THICK ALUMINUM, .5 X .75 EXPANDED MESH

VENT DETAIL 1
NTS



LEVEL INDICATOR DETAIL 2
NTS



NOTES:

- 1) THIS PERIMETER GUARDRAIL SHALL BE DESIGNED BY THE TANK MFR TO COMPLY WITH OSHA/CALOSHA REQUIREMENTS, UNO.
- 2) THIS PERIMETER GUARDRAIL IS DESIGNED AS CONTINUOUS RAILING. ALL OPENINGS IN GUARDRAIL SHALL BE FIELD CUT.
- 3) DO NOT TIGHTEN U-BOLTS UNTIL GUARDRAIL IS COMPLETELY POSITIONED.
- 4) DO NOT CUT RAILING UNTIL AFTER ENTIRE RAIL IS POSITIONED IN THE U-BOLTS. DO NOT POSITION SPLICED PORTION OF RAILING AT U-BOLT.
- 5) SPLICES ARE ACCOMPLISHED BY INSERTING THE SWAGED END OF RAIL INTO THE LARGER OPEN END OF RAILING.
- 6) PIPE CAPS USED AT OPENINGS WILL NOT FIT SWAGED END OF PIPE.

CAP END 1-1/4" POP ON PLASTIC	(8)
HEX NUT, 1/2"	(7)
WASHER, FLAT 1/2"	(6)
STRUCTURE BOLT, 1-1/4"	(5)
U-BOLT, 1"	(4)
HANDRAIL SECTION	(3)
TOEBOARD SECTION	(2)
HANDRAIL POST	(1)
PERIMETER HANDRAIL ASSY-KNUCKLE	-
DESCRIPTION	ITEM

PERIMETER GUARDRAIL 3
NTS

REVISIONS		
NO.	DATE	DESCRIPTION

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PACE ENGINEERING

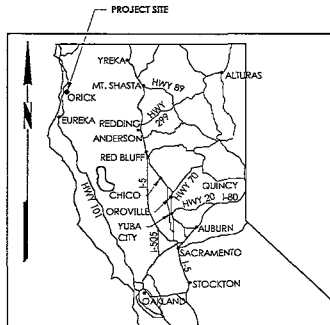
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WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

TANK DETAILS

SHEET
S2.5
PG. 14 OF 23



LOCATION MAP
N.T.S.

ELECTRICAL SYMBOLS	
LINE TYPES AND SYMBOLS	CONDUIT EXPOSED
	CONDUIT CONCEALED or RURED
	INDICATES FIRE RATED WALL
	CONDUIT UP
	CONDUIT DOWN
	LA-2 HOME RUN DESTINATION SHOWN
	TICK MARKS W/BARS INDICATES NUMBER OF #10 CONDUCTORS WITH #10 GROUND
	TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND
	"1" INDICATES 0-10V DIMMING CABLE. "2E" INDICATES CATSE CABLE. "C2" INDICATES 0-10V DIMMING AND COLOR TUNING CABLE.
TICK MARKS	JUNCTION BOX
	CONNECTION POINT (CONTRACTOR SHALL DETERMINE CONNECTION CONFIGURATION)
	LOW VOLTAGE DEVICE BOX
	DUPLEX RECEPTACLE
	QUADRUPLX RECEPTACLE
	CONTROLLED SPLIT DUPLEX RECEPTACLE
	QUADRUPLX RECEPTACLE: [1] CONTROLLED SPLIT DUPLEX RECEPTACLE, [1] DUPLEX RECEPTACLE
	SINGLE OR THREE PHASE RECEPTACLE. SEE PLAN SHEETS TYPE PER LOCATION
	FLOOR BOX
	PULLBOX
DEVICES, NOTES AND TERMINATIONS	FUSED DISCONNECT
	NON-FUSED DISCONNECT
	MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN
	SURFACE MOUNT PANELBOARD
	FLUSH MOUNT PANELBOARD
	BIOHERMIC WELD, TERMINATION OR SPICE POINT
	GROUND ROD
	GROUNDING ELECTRODE
	CIRCUIT BREAKER
	CURRENT TRANSFORMER, NUMBER INDICATED
EQUIPMENT	INDICATES INTERCONNECTION OF PATHWAYS AND/OR CONDUCTORS. E.G., 4C-4#50 143G (MSB - PNL A)
	INDICATES CONDUIT AND CONDUCTORS ROUTED FROM THE MAIN SWITCHBOARD TO PANELBOARD A.
	SPECIFICATION NUMBER REFERENCE TAG. CONFORMANCE TO PROJECT SPECIFICATIONS IS REQUIRED, WHERE TAGS ARE SHOWN ON THE DRAWINGS. IT IS THE ENGINEER'S INTENT TO RAISE ADDITIONAL AWARENESS TO PRODUCTS OR EXECUTION METHODS THAT ARE CRITICAL, ATYPICAL OR NOT EXPRESSLY DETAILED ON THE DRAWINGS.
ANIMATION	

ELECTRICAL ABBREVIATIONS	
A	-AMMETER, AMPERE
AC	-ALTERNATING CURRENT
ACH	-ASIDE COUNTER HEIGHT
AFCI	-ARC FAULT CIRCUIT INTERRUPT
AFF	-ABOVE FINISHED FLOOR OR GRADE
AFC	-AMPS INTERRUPTING CAPACITY
AL	-ALUMINUM
ATS	-AUTOMATIC TRANSFER SWITCH
BGS	-BUILDING GROUND ELECTRODE SYSTEM
BRKR	-BREAKER
BOD	-BOTTOM OF DEVICE
C or COND	-CONDUIT
CEC	-CALIFORNIA ELECTRIC CODE
CCT	-CIRCUIT
CCD	-CENTER OF DEVICE
CR	-CONTROLLED RECEPTACLE
CT	-CURRENT TRANSFORMER
DC	-DIRECT CURRENT
EX or EXIST	-EXISTING
ESCR	-ELECTRICAL ENGINEER OF RECORD
ECC	-EQUIPMENT GROUNDING CONDUCTOR
ENC	-ENCLOSURE
FT	-FUTURE
G	-EQUIPMENT GROUNDING CONDUCTOR
GGC	-GROUNDING ELECTRODE CONDUCTOR
GFCI	-GROUNDING FAULT CIRCUIT INTERRUPT
GND	-GROUND
J	-JUNCTION BOX
LIG	-LIGHTING
M3J	-MAIN BONDING JUMPER
MCS	-MAIN CIRCUIT BREAKER
MFR	-MANUFACTURER
MLO	-MAIN LUG ONLY
MOC	-MAXIMUM OVERCURRENT PROTECTION
MSB	-MAIN SWITCH BOARD
MIS	-MANUAL TRANSFER SWITCH
NEC	-NATIONAL ELECTRIC CODE
NEMA	-NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
N	-NEUTRAL
NI	-NEW
OFCI	-OWNER FURNISHED, CONTRACTOR INSTALLED
OFI	-OWNER FURNISHED, OWNER INSTALLED
PB	-PULLBOX
PNL	-PANELBOARD
RFI	-RECEPTACLE
SWBD	-SWITCHBOARD
SBJ	-SYSTEM BONDING JUMPER
SSB	-SUPPLY SIDE BONDING JUMPER
T	-THERMOSTAT OR TEE CONDUIT
TD	-TOP OF DEVICE
T	-TAMPER
TP	-TYPICAL
V	-VOLTMETER, VOLT
W	-WAIT
WW	-WIREWAY
WIP	-WEATHERPROOF (NEMA 3R)
XFR	-TRANSFORMER

COMPLY WITH APPLICABLE CODES	
#	CODE
1.	2021 NFPA 50: FLAMMABLE AND COMBUSTIBLE LIQUIDS.
2.	2021 NFPA 52: STATIONARY GASES.
3.	2021 NFPA 54: FUEL GAS CODE.
4.	2021 NFPA 56: LIQUID PETROLEUM GAS.
5.	2022 NFPA 72: FIRE ALARM AND SIGNALING CODE.
6.	2022 NFPA 110: EMERGENCY AND STANDBY POWER.
7.	2022 NFPA 111: STANDBY POWER SYSTEMS.
8.	2022 CALIFORNIA BUILDING CODE.
9.	2022 CALIFORNIA ELECTRIC CODE.
10.	2022 CALIFORNIA ENERGY CODE.
11.	2022 CALIFORNIA FIRE CODE.

BAR ONE INCH ON ORIGINAL DRAWING
0" = 1"

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NO.	DATE	DESCRIPTION

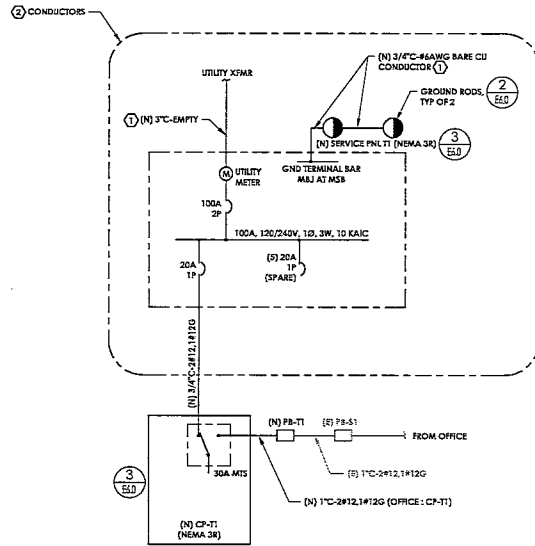
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DRN: BW DATE: 2/10/23

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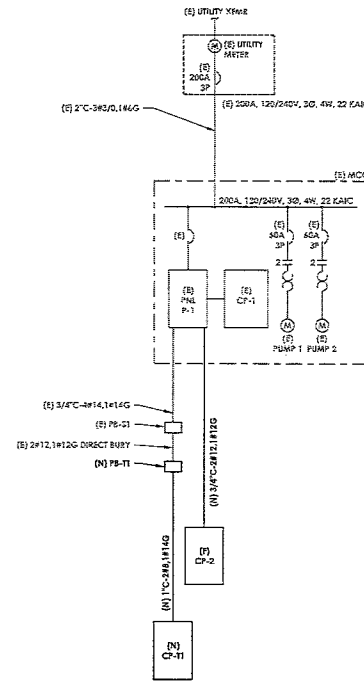
ORICK COMMUNITY SERVICES DISTRICT
WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
ELECTRICAL SYMBOLS & ABBREVIATIONS

SHEET
E1.0
PG 15 OF 23

KEYNOTES	
(N)	NOTE
1. PROVIDE AND INSTALL IN ACCORDANCE WITH PG&E REQUIREMENTS.	
2. ALL WORK HEREIN PERTAINS TO BID ITEM NO. 10.	



CONDUCTORS - ONE-LINE DIAGRAM 2
E2.0



OFFICE/TANK 1 - ONE-LINE DIAGRAM 1
E2.0

(E) PANEL		P-1		120/240 SINGLE		AIC RATING		10,000					
LOCATION		BLEC ROOM		VOLTS		BUS RATING		225 A					
MOUNTING TYPE		SURFACE		WIRES		MAIN BREAKER							
ENCLOSURE TYPE		NEMA 1		CIRCUITS		12							
(LABEL PANELBOARDS ACCORDING TO NAMING CONVENTIONS LISTED IN ELECTRICAL SPECIFICATIONS)													
CKT	HOME RUN	LOAD NAME	TRIP	INT TYPE	A	B	A	B	INT TYPE	TRIP	LOAD NAME	HOME RUN	CKT
1	(E)	(E) EXTERIOR LIGHTING	20 A		500 VA		500 VA			20 A	(E) INTERIOR LIGHTING & VENT FAN	(E)	2
3	(E)	(E) LOAD/(E) LOAD	20 A			500 VA		500 VA		20 A	(E) INTERIOR RCPTS	(E)	4
5	(E)	(E) CONTROL/ALARM	15 A		500 VA		500 VA			20 A	(E) OFFICE LOAD	(E)	6
7		SPACE	-		-	-	500 VA	500 VA		30 A	(E) OFFICE LOAD	(E)	8
9		SPACE	-		-	-	500 VA			30 A	(E) OFFICE LOAD	(E)	10
11	(N) 2#12,1#12G	(N) TANK 1	20 A			1200 VA				-	SPACE	(E)	12
					PHASE A		PHASE B		Notes:		*SPLIT BREAKER		
					TOTAL LOAD (VA)		2500 VA						
					TOTAL LOAD (AMPS)		21						

SCALE IS ONE INCH ON ORIGINAL DRAWING
0" = 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS		
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DRN: SW DATE: 2/10/23 3027.01

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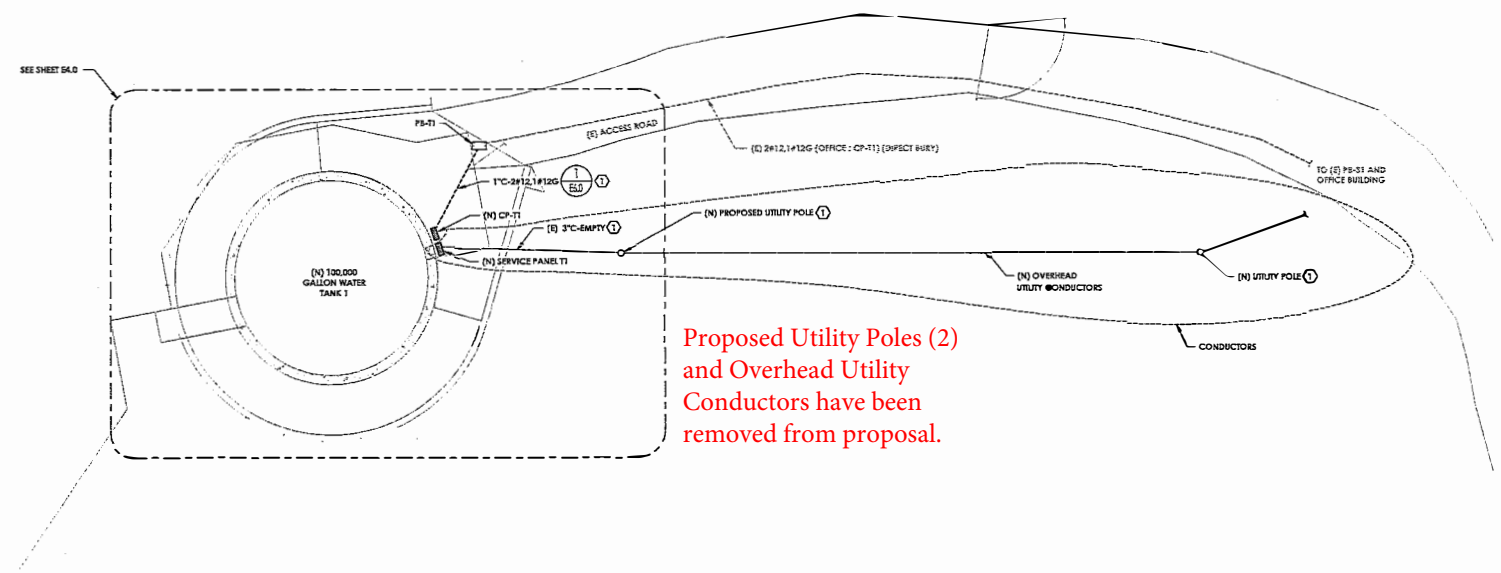
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WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
OFFICE/TANK 1 - ONE-LINE DIAGRAMS

SHEET
E2.0
PG 16 OF 23

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KEYNOTES	
(N)	NOTE
1.	PROVIDE AND INSTALL IN ACCORDANCE WITH PG&E REQUIREMENTS. SEE PG&E UTILITY DESIGN PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION, INSTALLATION AND CONSTRUCTION FEES RELATED TO THE UTILITY.
2.	INTERCEPT EXISTING CONDUCTORS WITH NEW PULLBOX SHOWN. CONTRACTOR SHALL FIELD LOCATE INTERCEPTION POINT SO AS TO MINIMIZE NEW UNDERGROUND CONDUIT/CONDUCTOR LENGTHS.

GENERAL NOTES	
#	NOTE
1.	CONTRACTOR SHALL HAVE THE NEW INSTRUMENTATION INSTALLED PRIOR TO THE DEMOLITION OF ANY INSTRUMENTATION AT THE TANK SITE.



TANK 1 - ELECTRICAL SITE PLAN
1" = 10'-0"

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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PACE ENGINEERING

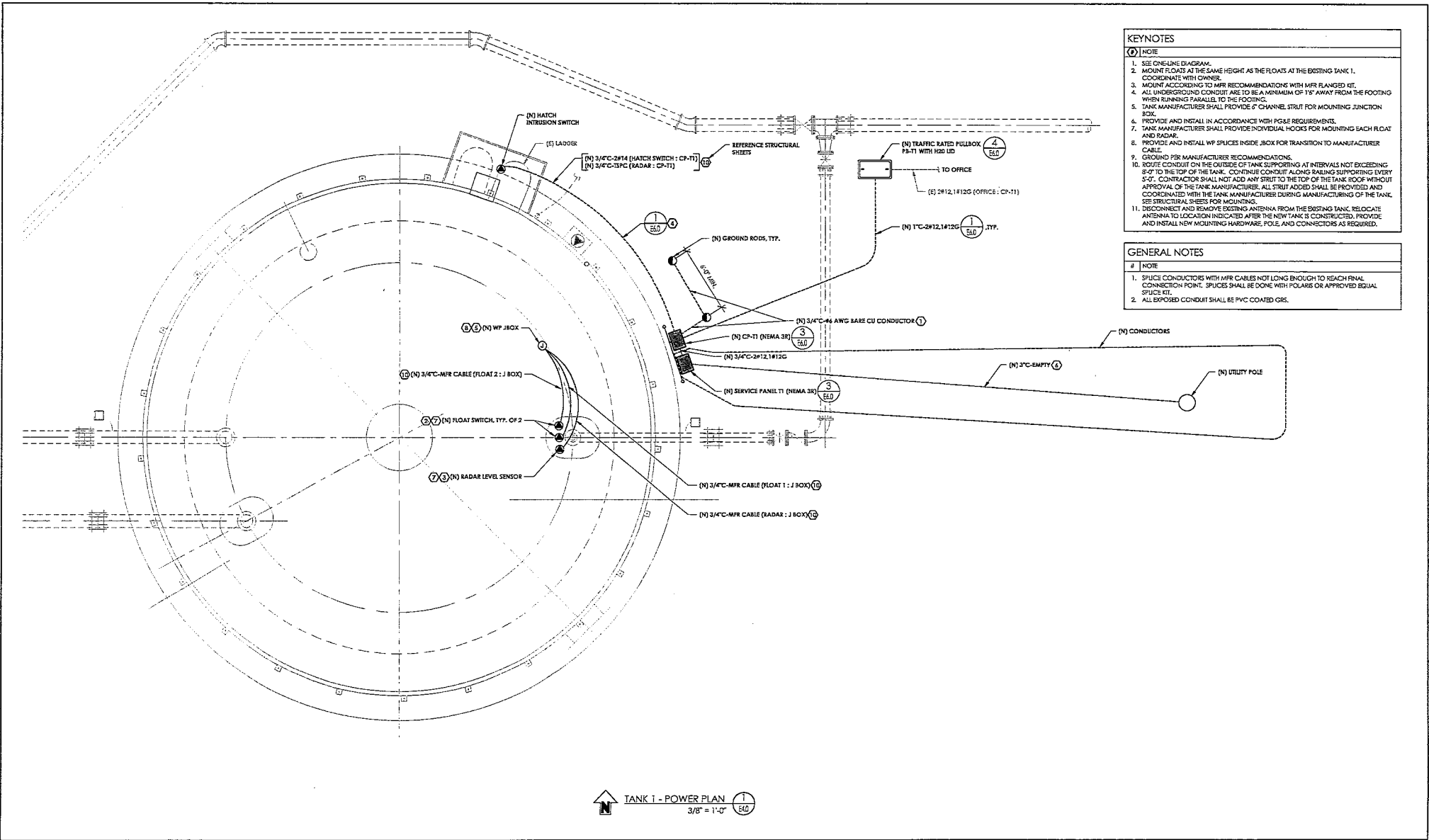
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 DRN: BW DATE: 2/18/23 30/2/01

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 WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
TANK 1 - ELECTRICAL SITE PLAN

SHEET
E3.0
 PG. 17 OF 23

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- KEYNOTES**
- (N) NOTE
- SEE ONE-LINE DIAGRAM.
 - MOUNT FLOATS AT THE SAME HEIGHT AS THE FLOATS AT THE EXISTING TANK 1. COORDINATE WITH OWNERS.
 - MOUNT ACCORDING TO MFR RECOMMENDATIONS WITH MFR FLANGED KIT.
 - ALL UNDERGROUND CONDUIT ARE TO BE A MINIMUM OF 18" AWAY FROM THE FOOTING WITH RUNNINGS PARALLEL TO THE FOOTING.
 - TANK MANUFACTURER SHALL PROVIDE 6" CHANNEL STRUT FOR MOUNTING JUNCTION BOX.
 - PROVIDE AND INSTALL IN ACCORDANCE WITH PG&E REQUIREMENTS.
 - TANK MANUFACTURER SHALL PROVIDE INDIVIDUAL HOOKS FOR MOUNTING EACH FLOAT AND RADAR.
 - PROVIDE AND INSTALL WP SPICES INSIDE J BOX FOR TRANSITION TO MANUFACTURER CABLE.
 - GROUND PER MANUFACTURER RECOMMENDATIONS.
 - ROUTE CONDUIT ON THE OUTSIDE OF TANK SUPPORTING AT INTERVALS NOT EXCEEDING 8'-0" TO THE TOP OF THE TANK. CONTINUE CONDUIT ALONG RAILING SUPPORTING EVERY 5'-0". CONTRACTOR SHALL NOT ADD ANY STRUT TO THE TOP OF THE TANK ROOF WITHOUT APPROVAL OF THE TANK MANUFACTURER. ALL STRUT ADDED SHALL BE PROVIDED AND COORDINATED WITH THE TANK MANUFACTURER DURING MANUFACTURING OF THE TANK. SEE STRUCTURAL SHEETS FOR MOUNTING.
 - DISCONNECT AND REMOVE EXISTING ANTENNA FROM THE EXISTING TANK. RELOCATE ANTENNA TO LOCATION INDICATED AFTER THE NEW TANK IS CONSTRUCTED. PROVIDE AND INSTALL NEW MOUNTING HARDWARE, POLE, AND CONNECTORS AS REQUIRED.

- GENERAL NOTES**
- # NOTE
- SPICE CONDUCTORS WITH MFR CABLES NOT LONG ENOUGH TO REACH FINAL CONNECTION POINT. SPICES SHALL BE DONE WITH POLARIS OR APPROVED EQUAL SPICES KIT.
 - ALL EXPOSED CONDUIT SHALL BE PVC COATED GRB.

TANK 1 - POWER PLAN
 3/8" = 1'-0"

BASE IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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 DRN: BW DATE: 2/10/23

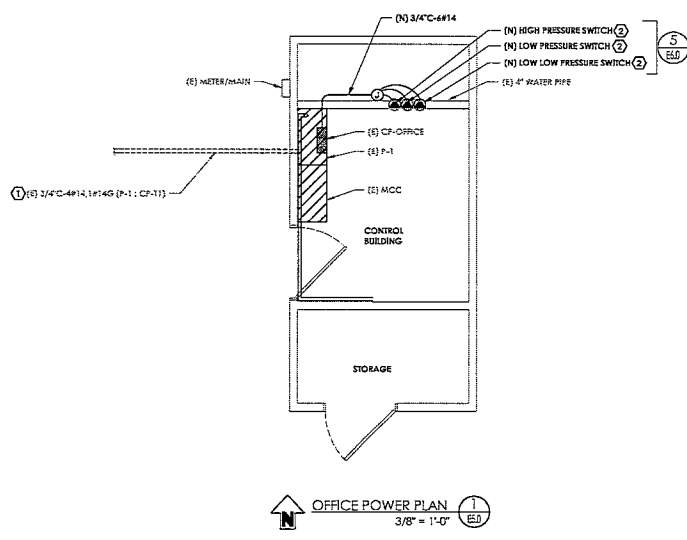
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ORICK COMMUNITY SERVICES DISTRICT
 WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
 TANK 1 POWER PLAN

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 PG 18 OF 23
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KEYNOTES	
(N)	NOTE
1.	DISCONNECT CONDUCTORS FROM RECEPTACLE AND RECONNECT CONDUCTORS TO PANEL P1 CXT #11.
2.	REFERENCE MECHANICAL DETAIL FOR INSTALLATION OF PRESSURE SWITCH AND SUPPORTING EQUIPMENT.



BASE ONE INCH ON ORIGINAL DRAWING
 0' 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS		
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PACE ENGINEERING

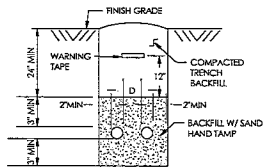
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 WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
 OFFICE POWER PLAN

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E5.0
 PG 19 OF 23
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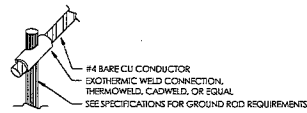
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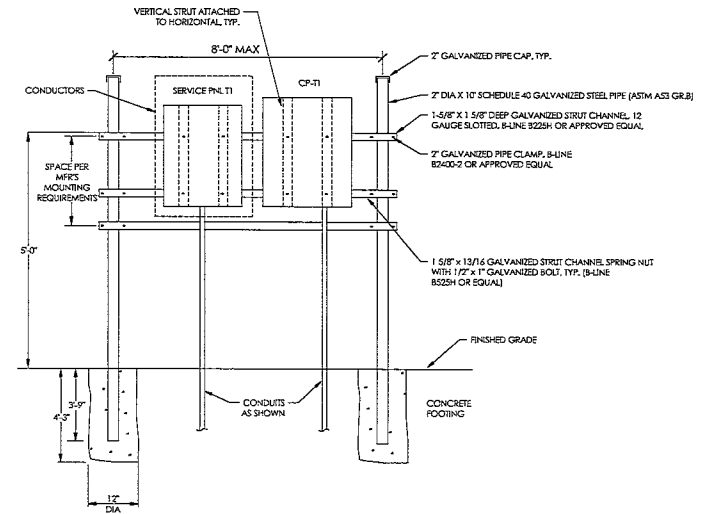
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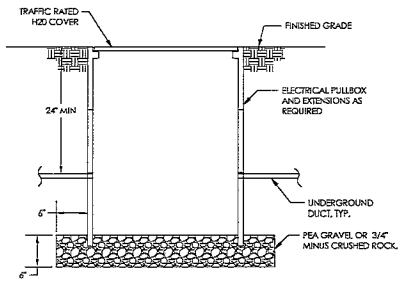
RACEWAY - UNDERGROUND CONDUIT (1) NTS E6.0



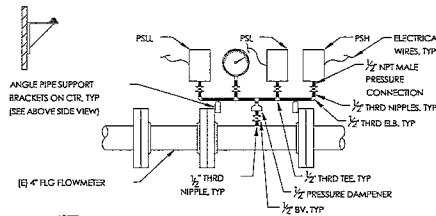
GROUNDING - CABLE TO GROUND ROD (2) NTS E6.0



OUTDOOR EQUIPMENT MOUNTING ASSEMBLY (3) NTS E6.0

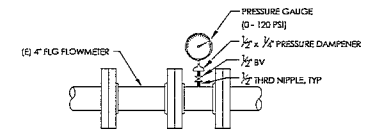


BOXES - UNDERGROUND PULL THROUGH (4) NTS E6.0



- NOTES:**
1. ALL VALVES AND FITTINGS ARE BRONZE OR BRASS, TYPICAL.
 2. PRESSURE TAP LOCATED AT DISTRICT OFFICE.

(N) PRESSURE GAUGE & HIGH/LOW SWITCHES (5) NTS E6.0



(E) PRESSURE GAUGE (6) NTS E6.0

BAR IS ONE INCH ON ORIGINAL DRAWING
0' 1"

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DRN. BW DATE 2/10/23 3007.01

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ORICK COMMUNITY SERVICES DISTRICT
WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
ELECTRICAL DETAILS

SHEET
E6.0
PG 20 OF 23

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INSTRUMENTATION SYMBOLS	
	CONDUIT EXPOSED
	CONDUIT CONCEALED OR BURIED
	MOTOR, HORSEPOWER INDICATED
	CONVENIENCE RECEPTACLE, DUPLEX UNLESS SPECIFIED OTHERWISE
	NON-FUSED DISCONNECT, SIZE INDICATED 3-POLE UNLESS INDICATED OTHERWISE
	FUSED DISCONNECT, SIZE INDICATED (60/40, 60-SWITCH RATING; 40-FUSE RATING) 3-POLE UNLESS INDICATED OTHERWISE
	STARTER MAGNETIC, NEMA SIZE INDICATED
	COMBINATION MAGNETIC STARTER, NEMA SIZE INDICATED
	CONTACT-NORMALLY OPEN W/ NEMA SIZE INDICATED AS APPLICABLE
	CONTACT-NORMALLY CLOSED W/ NEMA SIZE INDICATED AS APPLICABLE
	TIME DELAY RELAY CONTACT, TIMED TO CLOSE
	TIME DELAY RELAY CONTACT, TIMED TO OPEN
	REMOTE DEVICE
	RELAY COIL: CR-CONTROL RELAY, TDR-TIME DELAY RELAY
	OVERLOAD RELAY, 5-ELECTRONIC
	MAGNETIC STARTER W/ NEMA SIZE INDICATED
	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, FRAME SIZE SHOWN, 3-POLE UNLESS INDICATED OTHERWISE
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3-POLE UNLESS INDICATED OTHERWISE
	SWITCH-CURRENT RATING INDICATED, 3-POLE UNLESS INDICATED OTHERWISE
	LIGHTNING ARRESTER
	FUSE
	GROUNDING SHIELD CONNECTION
	GROUND
	TRANSFORMER, SECONDARY VOLTAGES, PHASE AND RATING INDICATED AS APPLICABLE
	PUSH BUTTON SWITCH, NORMALLY OPEN
	PUSH BUTTON SWITCH, NORMALLY CLOSED
	PUSH-TO-TEST INDICATING LIGHT / LETTER INDICATES COLOR: A-AMBER, B-BLUE, C-CLEAR, G-GREEN, R-RED, W-WHITE
	SELECTOR SWITCH-MAINTAINED CONTACT; X-CLOSED CONTACT POSITION
	MOTOR SPACE HEATER
	FLOW SWITCH OPENS ON INCREASE IN FLOW
	FLOW SWITCH CLOSSES ON INCREASE IN FLOW
	FLOAT SWITCH OPENS ON RISING LEVEL
	FLOAT SWITCH CLOSSES ON RISING LEVEL
	PRESSURE OR VACUUM SWITCH OPENS ON RISING PRESSURE
	PRESSURE OR VACUUM SWITCH CLOSSES ON RISING PRESSURE
	TEMPERATURE SWITCH OPENS ON RISING TEMPERATURE
	TEMPERATURE SWITCH CLOSSES ON RISING TEMPERATURE
	RTU/PLC DISCRETE OUTPUT
	RTU/PLC DISCRETE INPUT

NOTE:
1. THIS IS A SUPPLEMENTAL STANDARD INSTRUMENTATION LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS.

INSTRUMENTATION ABBREVIATIONS	
A	- AMMETER, AMPERE
AC	- ALTERNATING CURRENT
AIC	- ANALYZER INDICATING CONTROLLER
AIR	- AIR OR AIR COMPRESSOR
AIT	- ANALYZER INDICATING TRANSMITTER
B	- BLOWER
BFV/S	- SOLENOID BUTTERFLY CONTROL VALVE
BFV/M	- MOTORISED BUTTERFLY CONTROL VALVE
BFV/P	- PNEUMATIC BUTTERFLY CONTROL VALVE
BF	- BALL VALVE
BV/M	- MOTORISED BALL VALVE
BV/S	- SOLENOID BALL VALVE
BW	- BACKWASH
C	- CONTACTOR/CONDUIT
CB	- CIRCUIT BREAKER
CB	- CABLE
CK	- CIRCUIT
CKG	- COMPRESSOR
CKM	- CONDENSER
COND	- CONDUIT
CP	- CONTROL PANEL
CP	- CONTROL PANEL TRANSFORMER
CR	- CONTROL RELAY
DC	- DIRECT CURRENT
DI	- DIGITAL INPUT
DO	- DISSOLVED OXYGEN OR DIGITAL OUTPUT
DPT	- DIFFERENTIAL PRESSURE TRANSMITTER
DS	- DOOR SWITCH
EX	- EXISTING
EX	- EXHAUST FAN
ENC	- ENCLOSURE
ETM	- ELAPSED TIME METER
F	- FAN
FI	- FLOW INDICATING TRANSMITTER
FS	- FLOW SWITCH
G	- GROUND
GFI	- GROUND FAULT CIRCUIT INTERRUPT
H	- HEATER OR HEAT TRACE
HS	- HAND SWITCH
L	- LINE POWER
LA	- LIGHTNING ARRESTER
LS	- LEVEL SWITCH OR LIMIT SWITCH
LIT	- LEVEL INDICATING TRANSMITTER
M	- MOTOR OR FLOW METER ELEMENT
MCC	- MOTOR CONTROL CENTER
MFR	- MANUFACTURER
N	- NEUTRAL
NA	- NON-AUTOMATIC
NEC	- NATIONAL ELECTRIC CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
OIT	- OPERATOR INTERFACE TERMINAL
OL	- OVERLOAD RELAY
P	- PUMP
PS	- PULL BOX
PI	- PRESSURE INDICATING TRANSMITTER
PLC	- PROGRAMMABLE LOGIC CONTROLLER
PNL	- PANELBOARD
PS	- PRESSURE SWITCH
PV/M	- MOTORISED PLUG VALVE
QL	- INDICATING LIGHT
RECEPT	- RECEPTACLE
RTU	- REMOTE TELEMETRY UNIT
RW	- RECYCLE WATER
SPD	- SURGE PROTECTION DEVICE
SV	- SOLENOID VALVE
SW	- SWITCH
T	- TELE CONDUIT OR TURBIDIMETER
TDR	- TIME DELAY RELAY
TS	- THERMISTAT OR TEMPERATURE SWITCH
TI	- TEMPERATURE INDICATING TRANSMITTER
TR	- TYPICAL
UH	- UNIT HEATER
UIT	- ULTRAVIOLET TRANSMITTANCE TRANSMITTER
UPS	- UNINTERRUPTIBLE POWER SUPPLY
UV	- ULTRAVIOLET
UVT	- ULTRAVIOLET TRANSMITTANCE
V	- VOLTMETER, VOLT
VFD	- VARIABLE FREQUENCY DRIVE
VIT	- VACUUM INDICATING TRANSMITTER
W	- WATT
WT	- WEIGHT INDICATING TRANSMITTER
WP	- WEATHERPROOF (NEMA 4)
ZEMR	- TRANSFORMER
ZS	- ZERO SPEED SWITCH

NOTE: THIS IS A SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS.

SCALE: ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS		
NO.	DATE	DESCRIPTION

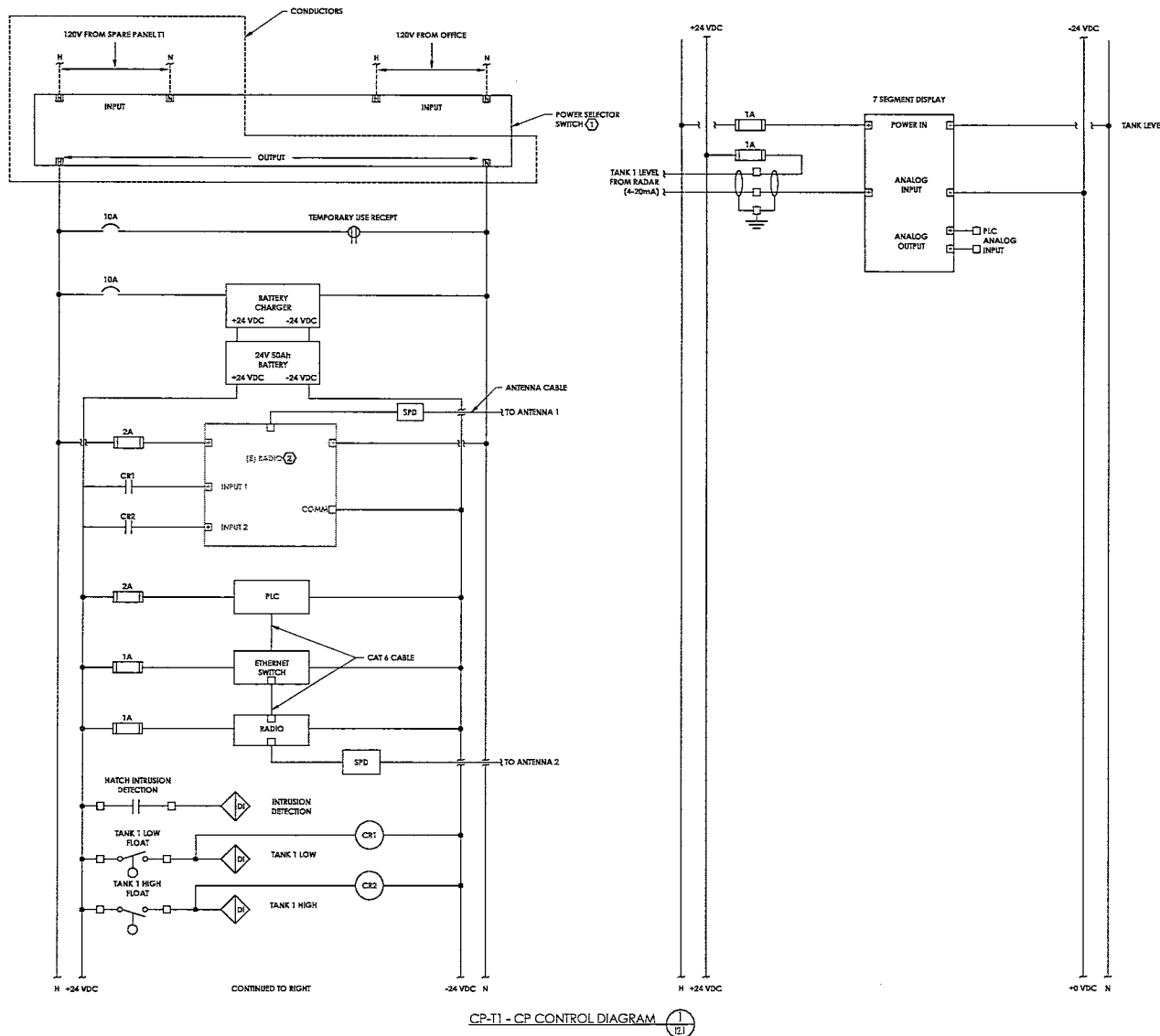
PACE ENGINEERING

DES: BBo CKD: TS JOB NO.
 DRN: BBo DATE: 2/19/23 3077.01

SIGNED
PRELIMINARY
NOT FOR
CONSTRUCTION

ORICK COMMUNITY SERVICES DISTRICT
 WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT
INSTRUMENTATION SYMBOLS & ABBREVIATIONS

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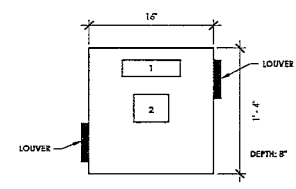


KEYNOTES

NOTE

1. PROVIDE AND INSTALL A GENERAC MODEL 6377 MS OR EQUAL.
2. INSTALL THE EXISTING RADIO IN THE NEW CP-T1. EXISTING RADIO IS REMOTE CONTROL TECHNOLOGY MEDIUM RANGE TRANSMITTER, PART #01242 WITH ENCLOSURE. NOT ALL RADIO HARDWARE IS SHOWN. VERIFY ALL EQUIPMENT PRIOR TO INSTALLATION.

CP-T1 SCHEDULE		
ITEM	DESCRIPTION	NAMEPLATE/INSCRIPTION
1	NAMEPLATE	CP-T1
2	RED LION DISPLAY	TANK LEVEL (FT)



BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS		
NO	DATE	DESCRIPTION

PACE ENGINEERING

DES: BSO CKD: TA JOB NO.: 3027.01
 DRN: BSO DATE: 2/10/23

SIGNED

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ORICK COMMUNITY SERVICES DISTRICT
 WATER SYSTEM IMPROVEMENTS PROJECT TANK 1 REPLACEMENT

CP-T1 - CONTROL DIAGRAM

SHEET

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