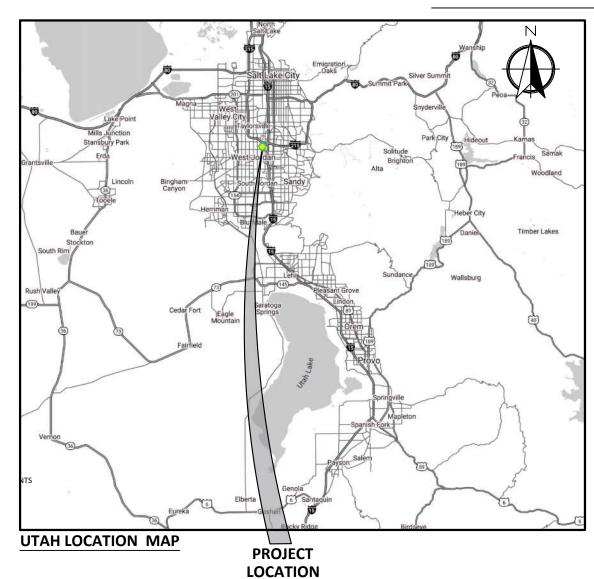
SOUTH VALLEY WATER RECLAMATION FACILITY 2024 CATHODIC PROTECTION SYSTEM PROJECT



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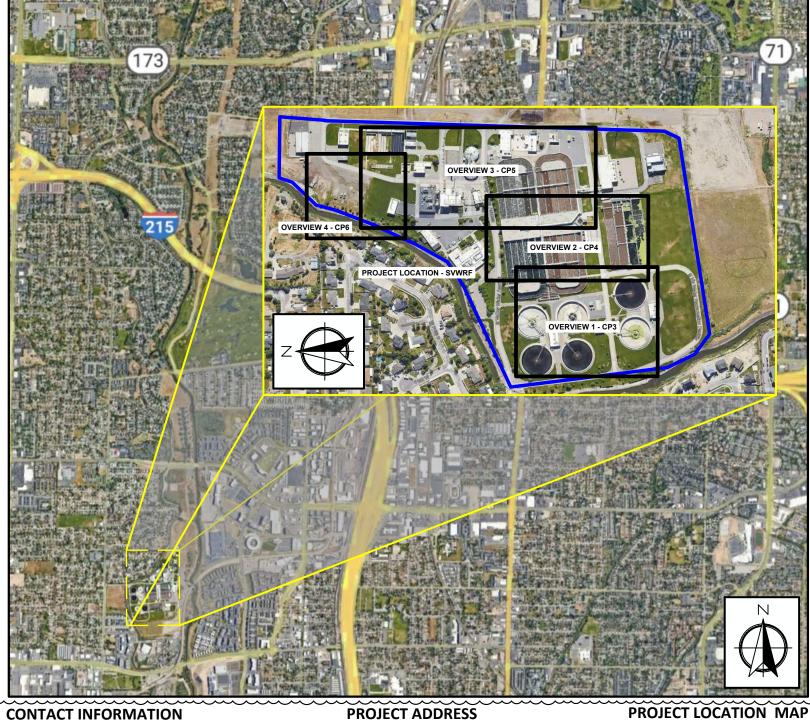
2024-05-16 No. 5043798 ERIK SCOTT

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12/18/2024 REV 1 - UPDATED SHEET INDEX TO INCLUDE ADDITIONAL SITE OVERVIEW ZGS ESL REV 1 - UPDATED PROJECT LOCATION MAP TO INCLUDE OVERVIEW 4 ZGS **REV 1 - UPDATED SHEET NUMBERING**

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South Valley

1 OF 8

2024-05-16



SVWRF CATHODIC PROTECTION

TABLE 1 - CATHODIC PROTECTION TEST STATION SCHEDULE FOR BURIED PIPING APPROX. TEST HIGH POTENTIAL STRUCTURE STATION STATION MAGNESIUM ANODE QTY BURY DEPTH STATION LOCATION/COMMENTS TYPE STYLE AND BARE WEIGHT* OFFSET INSTALL TEST STATION AGAINST CONCRETE WALL. ANODES TO BE INSTALLED IN GRASS TO NORTH OF TEST STATION LOCATION. TEST STATIONS 1, 14, 15, 16, AND 17 TOTAL COMBINED B" ML POST WILL UTILIZE A SINGLE ANODE GROUNDBED COMPRISED OF FIFTEEN (15) 60-LB FIFTEEN (15)-60LB ANODES. ANODE HEADER CABLE TO BE RUN TO ANODE BOND BOX. SEE OVERVIEW ON DWG CP3 FOR APPROX. GROUNDBED AND BOND BOX LOCATION INSTALL ANO DES IN GRASS. INSTALL TEST STATION AGAINST RAMP. ENSURE TEST 2 B" SCUM POST 15' NORTH FOUR (4)-60LB INSTALL ANO DES TO EAST OF PIPELINE PARALLEL TO ROAD IN DIRT/GRASS BEHIND 3 B" SCUM POST 10' FAST FIVE (5)-60LB CONCRETE BARRIERS. INSTALL TEST STATION BEHIND CONCRETE BARRIERS. INSTALL METRICORR TEST STATION NEXT TO TEST STATION 3, TO EAST OF PIPELINE IN 3M B" SCUM METRICORR POST 10' FAST DIRT/GRASS BEHIND CONCRETE BARRIERS. B" SCUM FLUSH 10' NORTH FIVE (5)-60LB INSTALL TEST STATION IN GRASS. INSTALL ANODES IN GRASS PARALLEL TO PIPELINE ANODES TO BE INSTALLED IN GRASS SOUTH OF PIPELINE BEHIND CURB. INSTALL TEST 5 B" WAS FLUSH 20' SOUTH FIVE (5)-60LB STATION BEHIND CURB ANODES TO BE INSTALLED IN GRASS BEHIND CURB PARALLEL TO PIPELINE. INSTALL 6 B" WAS POST FIVE (5)-60LB TEST STATION BEHIND CURB 6M B" WAS INSTALL METRICORR TEST STATION IN GRASS NEXT TO TEST STATION 6 BEHIND CURE METRICORR POST ANODES TO BE INSTALLED IN GRASS PARALLEL TO PIPELINE. INSTALL TEST STATION IF 8" WAS POST FIVE (5)-60LB GRASS OVER PIPELINE NEAR STRUCTURE TEST STATION TO BE INSTALLED IN GRAVEL AGAINST CONCRETE WALL, INSTALL ANODES IN GRASS APPROX. BO' TO SOUTH OF TEST STATION LOCATION. RUN ANODI 24" WAS POST FOUR (4)-60LB HEADER WIRE IN CONDUIT UNDER ASPHALT ROAD FROM TEST STATION TO ANODES SEE DWG CP4 FOR APPROX, GROUNDBED LOCATION TEST STATION TO BE INSTALLED IN GRAVEL AGAINST CONCRETE WALL, INSTALL ANODES IN GRASS APPROX. 175' TO SOUTH OF TEST STATION LOCATION, RUN ANOD 24" WAS POST FOUR (4)-60LB HEADER WIRE IN CONDUIT UNDER ASPHALT ROAD FROM TEST STATION TO ANODES SEE DWG CP4 FOR APPROX. GROUNDBED LOCATION INSTALL ANODES IN GRASS. INSTALL TEST STATION NEAR EDGE OF CONCRETE IN POST TWO (2)-60LB GRASS 11 30" RAS FLUSH FIVE (5)-60LB INSTALL ANODES AND TEST STATION IN GRASS. 12 30" RAS Δ FLUSH FIVE (5)-60LB 14 INSTALL ANODES AND TEST STATION IN GRASS. 13 42" PI POST FIVE (5)-60LB INSTALL ANODES AND TEST STATION IN GRASS 14 48" ML POST INSTALL TEST STATION AGAINST CONCRETE WALL, ANODES TO BE INSTALLED IN GRASS TO NORTH OF TEST STATION LOCATION. TEST STATIONS 1, 14, 15, 16, AND 17 POST 15 48" ML TOTAL COMBINED WILL UTILIZE A SINGLE ANODE GROUNDBED COMPRISED OF FIFTEEN (15) 60-LB FIFTEEN (15)-60LB 48" ML 24 16 POST ANODES, ANODE HEADER CABLE TO BE RUN TO ANODE BOND BOX, SEE OVERVIEW 17 ON DWG CP3 FOR APPROX. GROUNDBED AND BOND BOX LOCATION 48" MI POST INSTALL ANODES IN GRASS. INSTALL TEST STATION AGAINST CONCRETE WALL, TEST 18 48" ML POST 10 FIVE (5)-60LB LEADS TO BE INSTALLED AT THE END OF CONCRETE ENCASEMENT. 19 INSTALL ANODES AND TEST STATION IN GRASS. 48" ML Α FLUSH FIVE (5)-60LB 10 INSTALL ANO DES IN GRASS. INSTALL TEST STATION AGAINST CONCRETE WALL. TEST 48" ML 20 POST FIVE (5)-60LB LEADS TO BE INSTALLED AT THE END OF CONCRETE ENCASEMENT INSTALL ANO DES IN GRASS. INSTALL NEW TEST STATION NEAR EXISTING TEST 21 48" ML POST FIVE (5)-60LB STATION, REMOVE EXISTING TEST STATION AT THIS LOCATION. INSTALL ANODES IN SOIL BELOW GRAVEL AREA. TEST STATION TO BE INSTALLED. 22 48" ML FIVE (5)-60LB AGAINST CONCRETE WALL INSTALL ANODES IN SOIL BELOW GRAVEL AREA. TEST STATION TO BE INSTALLED 23 48" ML POST FIVE (5)-60LB AGAINST CONCRETE WALL 24 48" SF POST FIVE (5)-60LB INSTALL ANODES AND TEST STATION IN GRASS INSTALL ANODES IN GRASS. INSTALL NEW TEST STATION NEAR EXISTING TEST 25 48" SE POST FIVE (5)-60LB STATION, REMOVE EXISTING TEST STATION AT THIS LOCATION INSTALL ANODES IN SOIL BELOW GRAVEL AREA. INSTALL TEST STATION IN GRAVEL 54" PI FIVE (5)-60LB ABOVE PIPE 26M 54" PI METRICORR POST INSTALL METRICORR TEST STATION IN GRAVEL NEXT TO TEST STATION 26. 27 54" PI - Y POST 25' EAST THREE (3)-60LB INSTALL ANODES IN SOIL BELOW GRAVEL. INSTALL TEST STATION NEXT TO VAULT. Α INSTALL ANODES IN GRASS, LOCATE TEST STATION NEXT TO STRUCTURE, INSTALL 2B 54" PI FLUSH FIVE (5)-60LB 15 TEST LEADS AT END OF STEEL PIPE WHERE PIPE TRANSITIONS TO RCP. 54" PI FLUSH FIVE (5)-60LB INSTALL ANO DES AND TEST STATION IN GRASS. 30 54" PI Α POST TWO (2)-60LB INSTALL ANO DES AND TEST STATION IN GRASS. INSTALL ANODES IN SOIL BELOW GRAVEL. OTHER PIPELINES IN AREA TO BE LOCATED 54" PI POST THREE (3)-60LB 31 PRIOR TO INSTALLING ANODES. INSTALL TEST STATION NEAR STRUCTURE. TEST STATION TO BE INSTALLED IN GRAVEL AGAINST CONCRETE WALL. INSTALL ANODES IN GRASS APPROX. 95' TO SOUTH OF TEST STATION LOCATION. RUN ANODE 54" PI 32 POST FIVE (5)-60LB HEADER WIRE IN CONDUIT UNDER ASPHALT ROAD FROM TEST STATION TO ANODES. SEE DWG CP4 FOR APPROX. GROUNDBED LOCATION 60" IE POST FIVE (5)-60LB INSTALL ANODES AND TEST STATION IN GRASS 60" IE POST FIVE (5)-60LB INSTALL ANODES AND TEST STATION IN GRASS. INSTALL ANODES IN SOIL BELOW GRAVEL. INSTALL TEST STATION NEAR STRUCTURE. 60" PI THREE (3)-60LB OTHER PIPELINES IN AREA TO BE LOCATED PRIOR TO INSTALLING ANODES. 60" PI POST FIVE (5)-60LB INSTALL ANODES IN GRASSY AREA. INSTALL TEST STATION NEAR CONCRETE 15 37 72" SE Α POST SIX (6)-60LB INSTALL ANO DES AND TEST STATION IN GRASS BEHIND CURB. INSTALL METRICORR TEST STATION IN GRASS NEXT TO TEST STATION 37. INSTALL ANODES IN GRASSY AREA. INSTALL TEST STATION NEAR CONCRETE POST 3B 72" SE Α POST FOUR (4)-60LB 10-20 39 72" SE Δ POST FOUR (4)-60LB 10-20 INNSTALL ANODES IN GRASSY AREA. INSTALL TEST STATION NEAR UV SPLITTER BOX

* IF VERTICAL ANODE ORIENTATION IS DEEMED MORE APPROPRIATE FOR THE INSTALLATION LOCATION, IT MAY BE UTILIZED. IN INSTANCES WHERE VERTICAL ANODE ORIENTATION IS SELECTED, ONE (1) ADDITIONAL ANODE IN ADDITION TO THE NUMBER CALLED OUT IN THE TEST STATION SCHEDULE SHALL BE INSTALLED.

	DSGN	ESL	1	12/18/2024	REV 1 - UPDATED TEST STATION SCHEDULE TO INCLUDE 72" SE PIPE	ZGS	ESL
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SVWRF CATHODIC PROTECTION

South Valley WATER RECLAMATION FACILITY



SHEET 2 OF 8 DWG CP2 DATE 2024-05-16 CONTRACT SWWR-009

GENERAL

- CONTRACTOR SHALL PROTECT NEW AND EXISTING SVWRF EQUIPMENT AND COMPONENTS. DAMAGE WILL BE REPAIRED AT THE CONTRACTORS SOLE EXPENSE
- CONTRACTOR SHALL NOT BLOCK ACCESS OR LIMIT THE USE OF ANY PROPERTY DURING CONSTRUCTION.
 - CONTRACTOR TO CONFIRM PIPE LOCATION BEFORE INSTALLING GALVANIC ANODES AND TEST STATIONS.
 - . WHERE NOTED IN THE TEST STATION SCHEDULE, CONTRACTOR SHALL DETERMINE LOCATION OF THE PIPE TRANSITION FROM REINFORCED CONCRETE PIPE (RCP) TO STEEL OR END OF CONCRETE ENCASEMENT, AND UTILIZE MINIMALLY INVASIVE METHODS TO EXPOSE THE PIPE. SUCH AS VACULUM EXCAVATION.
 - 5. CONTRACTOR RESPONSIBLE FOR RESTORING SITE TO PREWORK CONDITIONS.
 - ALL WORK SHALL BE PERFORMED WITHIN DESIGNATED BOUNDARIES, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CLAIMS TO ADJACENT PUBLIC OR PRIVATE PROPERTY.
- TOP SOIL TO BE KEPT SEPARATE FROM OTHER EXCAVATED SOILS AND THEN REAPPLIED LAST AFTER BACKFILLING.
- PIPE SIZES AND MATERIALS ARE PROVIDED BASED ON AVAILABLE HISTORICAL PROJECT DOCUMENTATION. CONTRACTOR SHALL CONFIRM SIZES AND MATERIALS OF PIPELINES.

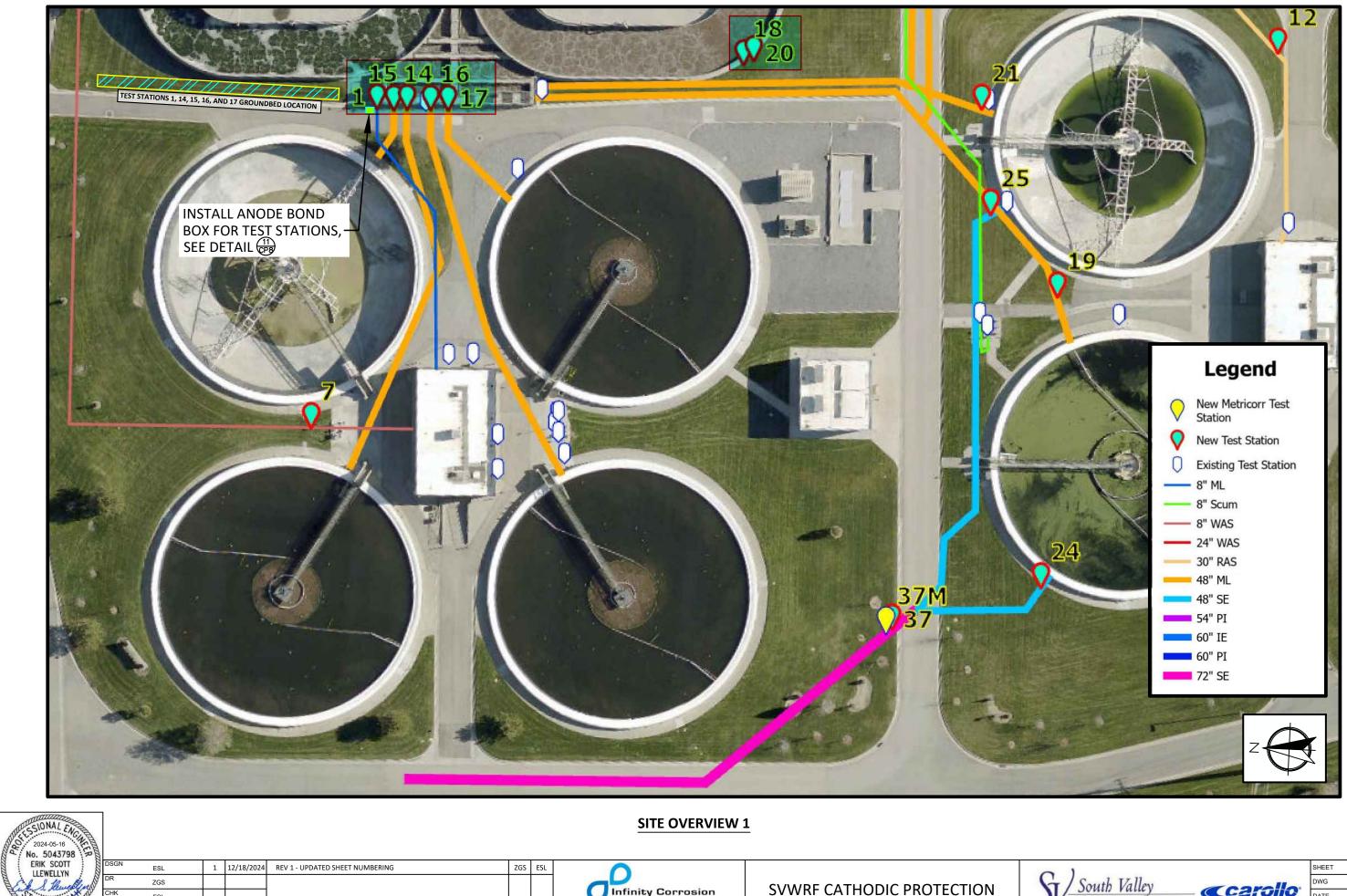
TEST STATIONS

- SEE TEST STATION SCHEDULE, TABLE 1 FOR LOCATIONS, TYPE, AND STYLE OF TEST STATIONS.
- 2. SEE DETAIL 1, CP7 FOR TYPE "A" TEST STATION DETAIL.
- 3. DEE DETAIL 2, CP7 FOR METRICORR TEST STATION DETAIL.
- STYLE OF TEST STATION MAY BE CHANGED WHERE NEEDED AT OWNER/PROJECT REPRESENTATIVE'S DISCRETION.
- 5. LOCATE TEST STATIONS NEXT TO PROTECTIVE PERMANENT ABOVE GROUND STRUCTURES, OR WHERE SPECIFIED. TEST STATION SHOULD BE LOCATED AS CLOSE TO DIRECTLY OVER PIPELINE AS POSSIBLE WHERE OFFSETS ARE NOT REQUIRED. FINAL LOCATION TO BE VERIFIED IN THE FIELD BY THE OWNER/PROJECT REPRESENTATIVE
- TEST STATIONS LOCATED WITHIN ROADS, OPEN AREAS, OR FIELDS SHALL BE OFFSET AS SHOWN ON THE SCHEDULE TO THE PHYSICAL FEATURE IDENTIFIED OR AS DIRECTED BY THE FINGINEFER
- AS DIRECTED BY THE ENGINEER.
 7. FLUSH TEST STATIONS TO HAVE 12" OF GRAVEL INSTALLED BELOW BASE OF TEST STATION. SEP DETAIL 4. CP7.
- LOCATE REFERENCE ELECTRODE 6" FROM THE EDGE OF PIPE
- THE LOCATION OF METRICORR TEST STATIONS CAN BE ADJUSTED DEPENDING ON THE TYPE AND MATERIAL OF THE PIPE. COATED STEEL PIPES ARE OPTIMAL FOR METRICORR INSTALLATION. IN CASES WHERE MORTAR COATED STEEL IS DISCOVERED DURING THE EXCAVATION PROCESS FOR METRICORR INSTALLATION, ENGINEER AND OR PROJECT REPRESENTATIVE SHALL BE CONSULTED FOR UPDATED TEST STATION LOCATION.
- 10. ALL TEST LEADS WITHIN EACH TEST STATION MUST BE CLEARLY AND DURABLY LABELED. LABELING SHOULD INCLUDE IDENTIFICATION DETAILS CORRESPONDING TO ALL TEST LEAD TERMINATIONS INCLUDING BUT NOT LIMITED TO PIPELINE DETAILS, REFERENCE CELLS, AND TEST LEADS.
- EXISTING SVWRF TEST STATIONS CALLED OUT IN TEST STATION SCHEDULE TO BE REMOVED SHALL BE DISPOSED OF PER SVWRF DIRECTION.

CATHODIC PROTECTION

- 1. SEE CPS SITE PLAN OVERVIEWS FOR GENERAL LOCATION OF CATHODIC PROTECTION TEST STATIONS.
- APPROXIMATE GROUNDBED LOCATIONS SHOWN FOR TEST STATIONS 1, 8, 9, 14, 15, 16, 17, AND 32.
- PIPELINES ASSOCIATED WITH TEST STATIONS 1, 14, 15, 16, AND 17 SHALL UTILIZE A SINGLE ANODE GROUNDBED COMPRISED OF FIFTEEN (15) ANODES.
- CATHODIC PROTECTION INSTALLATIONS SHALL BE ORIENTED AS SHOWN ON THE DRAWINGS. MODIFICATION TO THE INSTALLATIONS SHALL BE APPROVED BY THE OWNER AND ENGINEER.
- CONTRACTOR SHALL USE SVWRF APPROVED AND SPECIFIED EXCAVATION METHODS.
- INSTALL MAGNESIUM ANODES HORIZONTALLY OR VERTICALLY, AT PIPE SPRINGLINE, AND PARALLEL TO THE PIPELINE UNLESS SPECIFIED OTHERWISE.
- MAGNESIUM ANODES MAY BE INSTALLED VERTICALLY WHERE SPACE IS LIMITED AND AS APPROVED BY THE OWNER AND ENGINEER.
- ANODES MAY BE PLACED ON EITHER SIDE OF TEST STATION OR PIPE AS REQUIRED FOR CONSTRUCTION. OR AS APPROVED BY THE ENGINEER.
- REMOVE ANODE FROM PLASTIC PACKAGING BEFORE INSTALLATION
- ENSURE ANODES ARE NOT IN CONTACT WITH ANY BELOW GRADE STRUCTURES.
 AFTER ANODE INSTALLATION, BACKFILL TO 1-FOOT OVER THE ANODES, WATER ANODES WITH 5 GALLONS OF WATER PER ANODE, IF SOILS ARE DRY AS
- DETERMINED BY THE ENGINEER.

 12. CONTRACTOR SHALL SUPPLY AN ADDITIONAL TEN (10) 60-LB ANODES FOR USE WHERE ADDITIONAL ANODES ARE DEEMED NECESSARY.



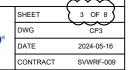
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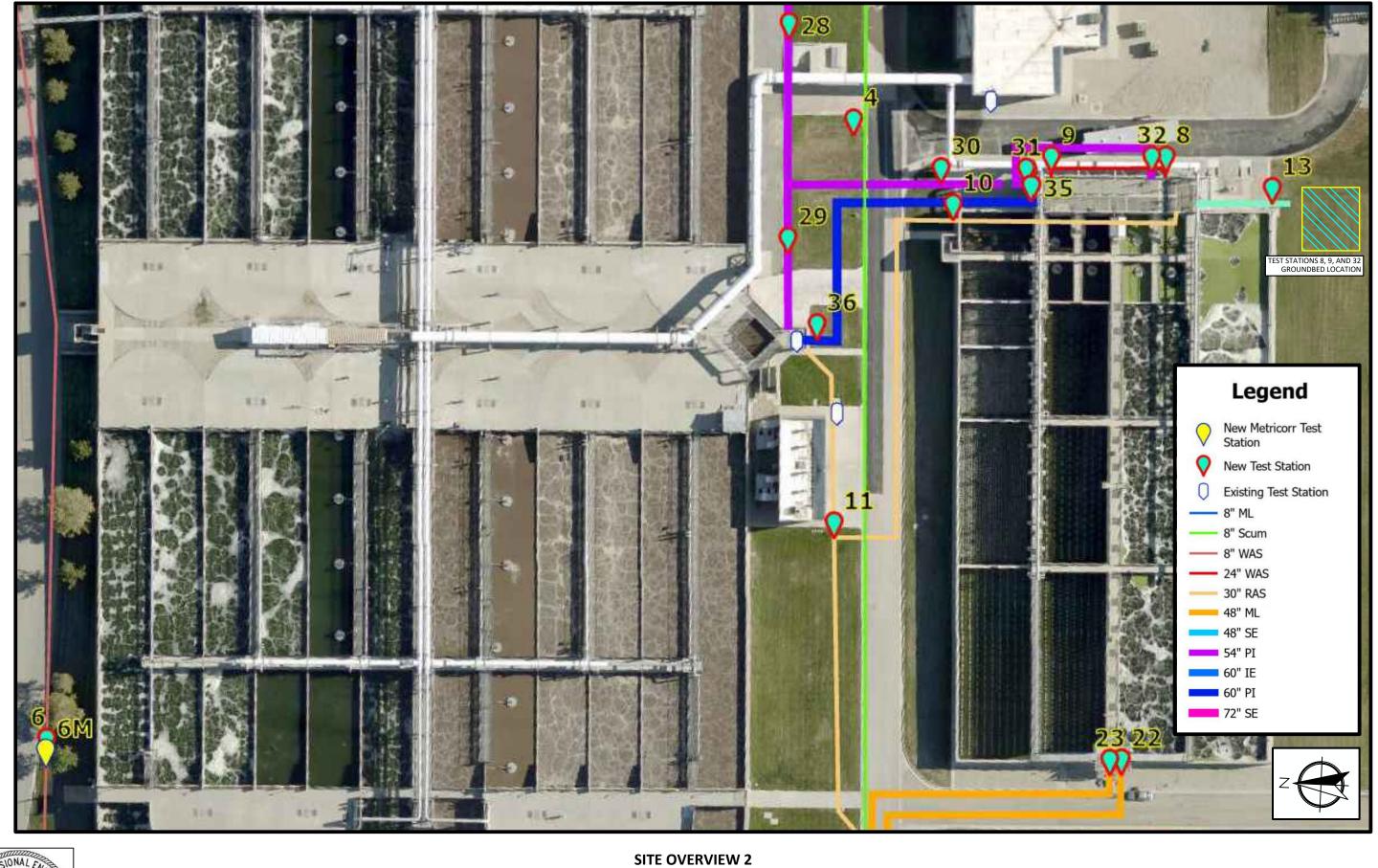


SVWRF CATHODIC PROTECTION









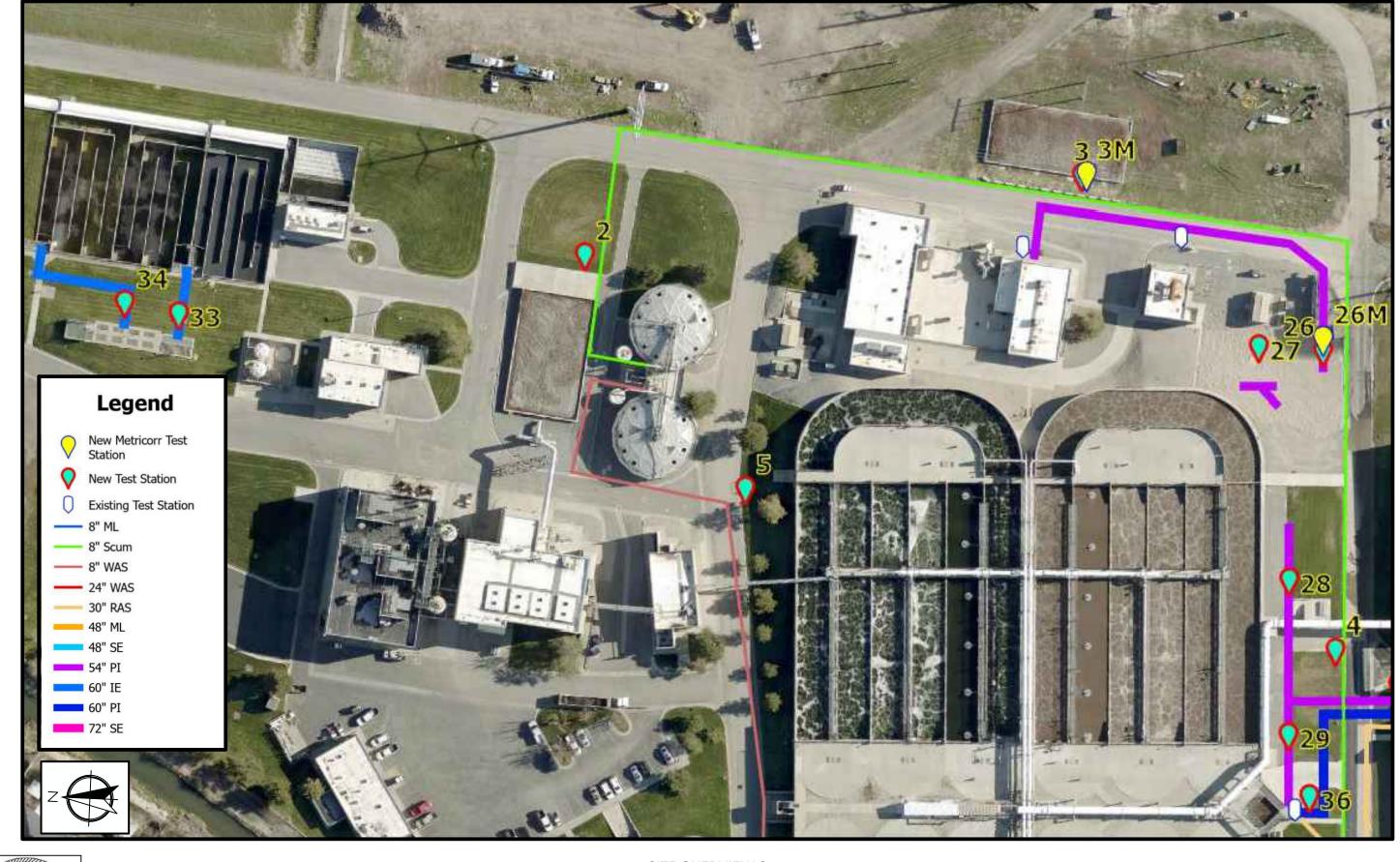
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SITE OVERVIEW 3

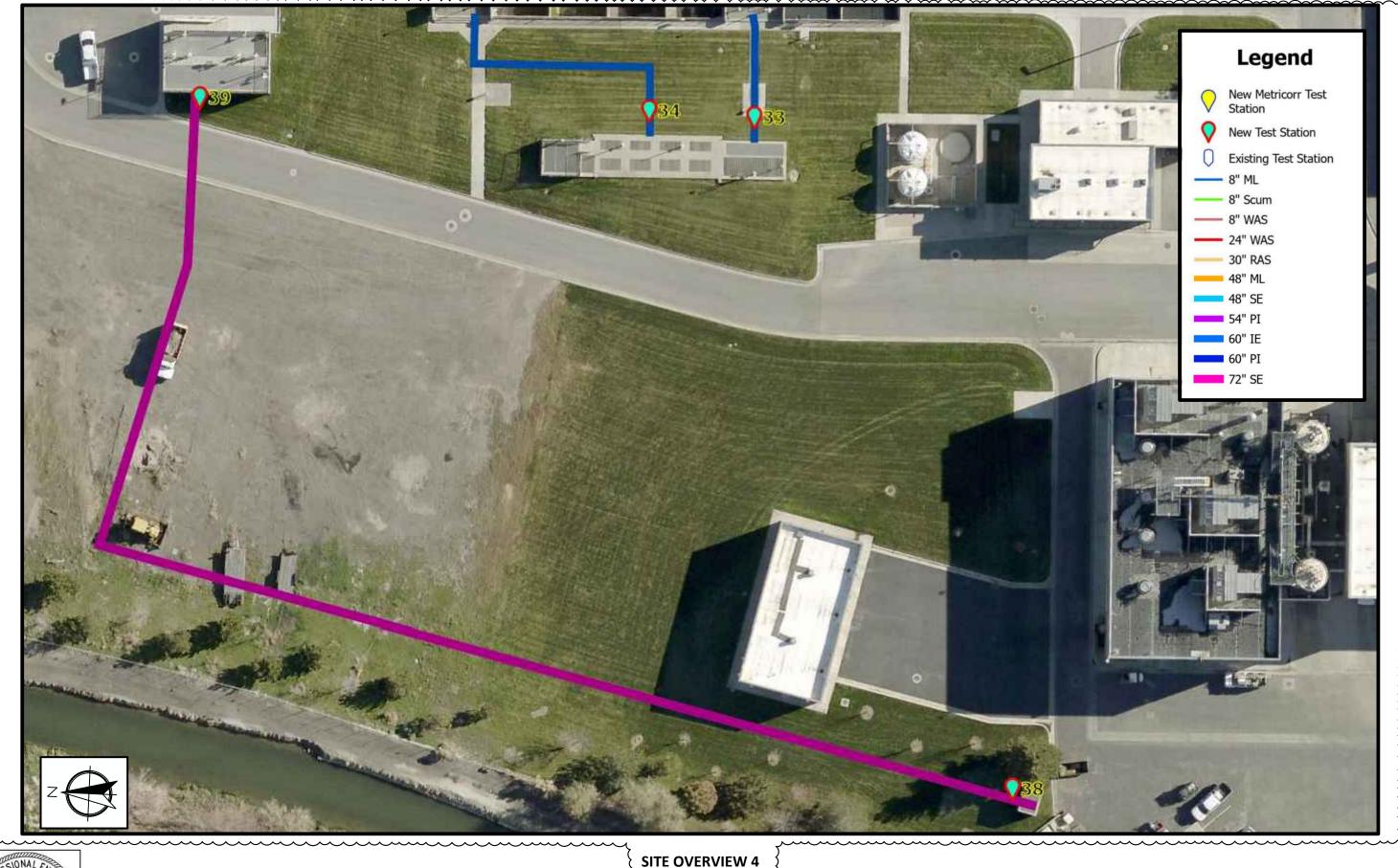
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SITE OVERVIEW 4

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	DATE	2024-05-16
	CONTRACT	SVWRF-009

TERMINAL BOARD PIPE TERMINAL PIPE TERMINAL HOLLOWAY SHUNT REF. ELECTRODE TERMINA ANODE **TERMINAL** FINISH GRADE 2-#10 AWG WIRES WHITE INSULATION #8 AWG HEADER WIRE BLACK INSULATION SEE DETAIL 1-#14 AWG WIRE, YELLOW INSULATION WIRE SPLICE, TYP SEE DETAIL 6 CP8 WIRE CONN, TYP, WIRE COINT, SEE DETAIL 7 2'-0' REFERENCE ELECTRODE LOCATE 6" FROM PIPE GALVANIC ANODE. QUANTITY AS SPECIFIED, TYP, SEE DETAIL 8 SEE NOTES 5 & 6

> SEE POST OR FLUSH MIDDINIES STYLE REQUIRED. SEE DETAILS (3) (4) (P7)

INSTALL AND LABEL EACH TEST LEAD IN TEST STATION

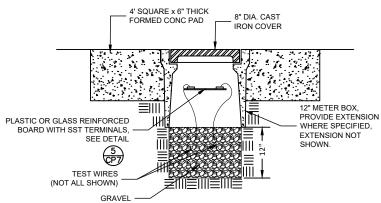
1. SEE POST OR FLUSH MOUNTED TEST STATION DETAILS AS APPLICABLE FOR TEST STATION

SEE TABLE 1-CP TEST STATION SCHEDULE FOR TYPE, STYLE, AND QUANTITY OF ANODES.

ANODES INSTALLED HORIZONTALLY SHALL BE INSTALLED AT 8 FEET ON CENTER, TYP (O.C.)

ANODES INSTALLED VERTICALLY SHALL BE INSTALLED AT 6 FEET O.C., TYP, WITH ONE (1) ADDITIONAL ANODE INSTALLED IN ADDITION TO THE NUMBER CALLED OUT IN THE TEST STATION SCHEDULE.



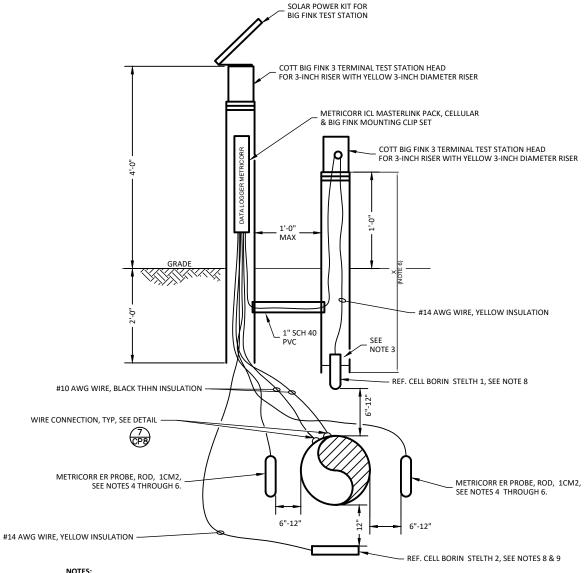


NOTES:

- COLOR CODE WIRE INSULATION AS SHOWN IN APPLICABLE TEST STATION
- DETAILS, CONNECT EACH TEST WIRE TO SEPARATE TERMINAL.

 WIRE CONFIGURATION FOR FLUSH MOUNTED TEST STATIONS SIMILAR TO POST
- PROVIDE 18 INCHES SLACK IN TEST WIRES, MINIMUM.
- GRAVEL TO BE INSTALLED FROM BOTTOM BASE OF METER BOX AN ADDITIONAL





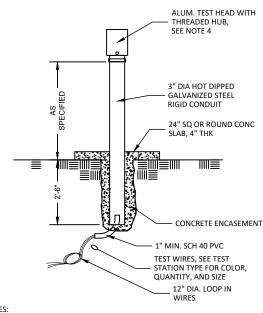
NOTES:

- INSTALL WHERE INDICATED ON DRAWINGS.
- ABOVE GRADE MATERIALS TO BE INSTALLED OUTSIDE HARD SURFACE OF ROAD. SEE DETAIL



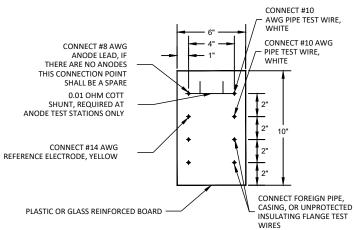
- CABLES TO BE PLACED IN CONDUIT WHEN TEST STATION IS PLACED 5-FEET OR MORE AWAY FROM PIPELINE TUBE TO REMAIN EMPTY DOWN TO REFERENCE CELL.
- ER PROBE WIRE MUST REMAIN THE LENGTH PROVIDED BY MANUFACTURER.
- ER PROBE TO BE SAME MATERIAL AS PIPE BEING MONITORED.
- ER PROBE TO BE PLACED ON EITHER SIDE OF THE PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. LABEL WIRES TO DISTINGUISH WHICH SIDE IT IS ON.
- DIMENSION "X" TO BE FIELD DETERMINED AND ADDITIONAL LENGTH ADDED TO TUBE, AS NEEDED. DIMENSION "X" WILL BE WRITTEN ON THE INSIDE OF THE TUBE NEAR THE TEST HEAD.
- LABEL REFERENCE CELL WIRES.
- REFERENCE CELL MAY BE PLACED ABOVE PIPE, BUT AT LEAST 12" AWAY FROM ER PROBES OR OTHER REFERENCE CELL
- 10. WHEN POSSIBLE, FACE SOLAR PANEL SOUTH AND ENSURE NO TREES OR FOREIGN STRUCTURES WILL INTERFERE WITH DIRECT SUNLIGHT.

METRICORR SLIMLINE ICL TEST STATION NTS



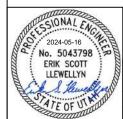
- QUANTITY OF TERMINALS AND WIRING CONNECTIONS VARIES, SEE APPLICABLE TEST STATION
- DETAILS FOR TYPE OF TEST STATION.
 PROVIDE WIRE LOOP AT BASE OF POST MOUNTED TEST STATION TO MINIMIZE SETTLEMENT
- INSTALL TESTOX SERIES 707 TEST STATION UNLESS SPECIFIED OTHERWISE.
- CORROSION RESISTANT TAPE WRAP TO BE APPLIED TO BURIED SECTION OF GALVANIZED STEEL POST. EXTEND TAPE TO 6" ABOVE GROUND.

POST MOUNTED, **GALVANIZED STEEL POST**



- 1. TERMINAL BOARD LAYOUT FOR REFERENCE ONLY AND MAY BE DIFFERENT ON PHYSICAL BOARD.
- TERMINALS SHALL BE 1/4" STAINLESS STEEL WITH LOCKING WASHER, TWO FLAT WASHERS, AND DOUBLE NUTS.
 ALL WIRE CONNECTIONS TO BE WITH RING TONGUE COMPRESSION TERMINALS.
- INSTALL AND LABEL EACH TEST LEAD IN TEST STATION.
- TEST WIRES NOT SHOWN FOR CLARITY





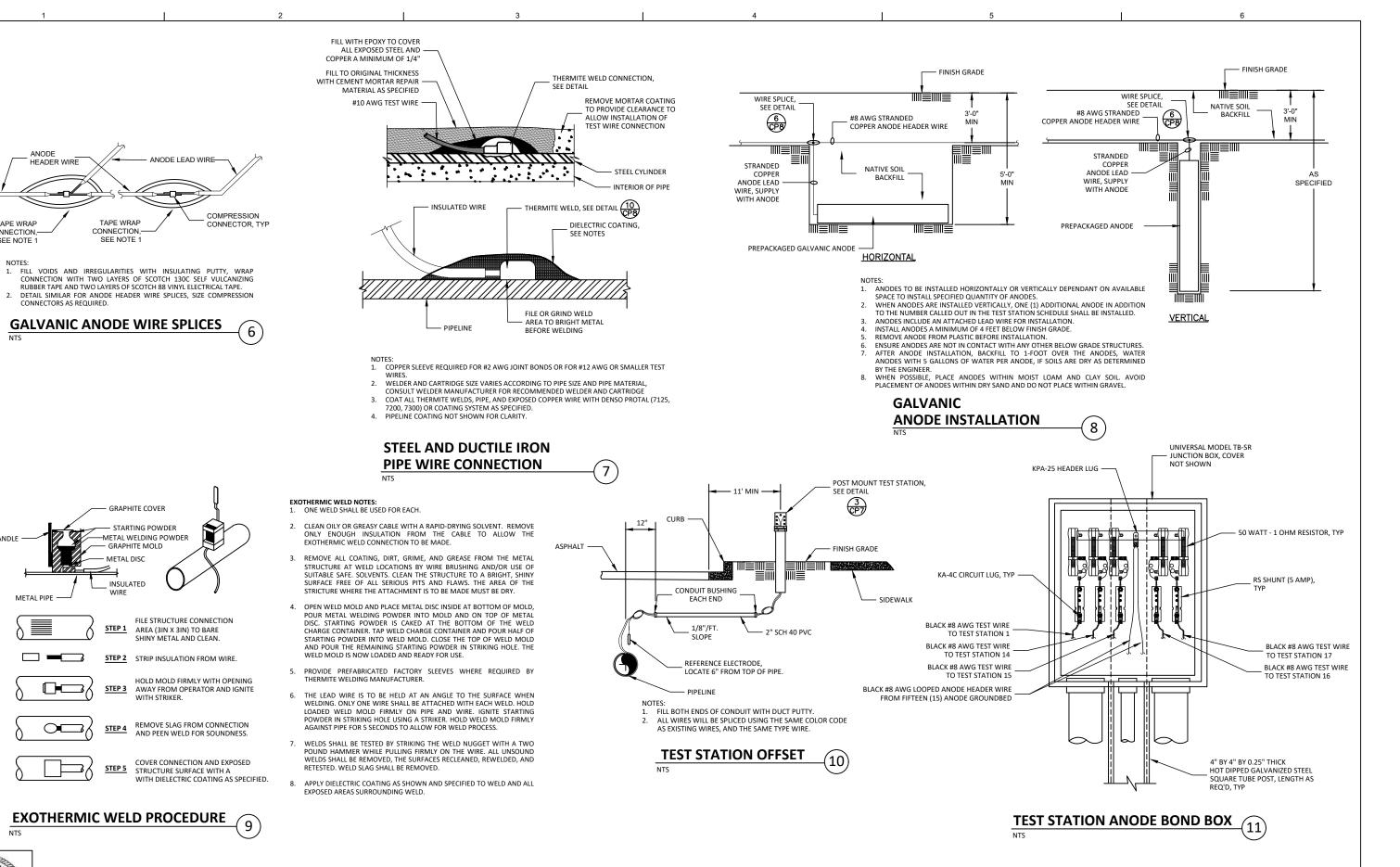
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3	DSGN	ESL	1	12/18/2024	REV 1 - ADDED SITE OVERVIEW 4 FOR 72" SE PIPE AND TEST STATIONS	ZGS	ESL	
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SEE NOTE 1

CONNECTION,

1 | 12/18/2024 | REV 1 - ADDED SITE OVERVIEW 4 FOR 72" SE PIPE AND TEST STATIONS ZGS ESL ZGS ESL ESL DATE ISSUE/REVISION BY APVD



SVWRF CATHODIC PROTECTION



