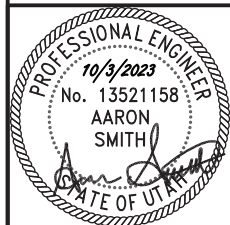


DRAWING	DETAIL	TITLE
SD-2	0310-051	FORM SNAP - TIE HOLE
SD-2	0310-052	ALTERNATE FORM TIE - THROUGH BOLT
SD-2	0310-061	PIPE BLOCKOUT
SD-2	0315-001	PLASTIC WATERSTOP
SD-2	0315-011	WATERSTOP JOINTS
SD-2	0315-012	WATERSTOP CONNECTION
SD-2	0315-141	SLAB CONSTRUCTION JOINT
SD-2	0315-143	SLAB CONSTRUCTION JOINT AT WALL
SD-3	0315-151	WALL VERTICAL CONSTRUCTION JOINT
SD-3	0315-152	WALL CONSTRUCTION JOINT AT ELEVATED SLAB
SD-3	0315-154	WALL BASE CONSTRUCTION JOINT
SD-3	0330-001	OPENING REINFORCING
SD-3	0330-003	TYPICAL WALL CORNER AND INTERSECTION REINFORCING
SD-3	0330-004	REINFORCEMENT AT HORIZONTAL CONSTRUCTION JOINT
SD-3	0330-005	VERTICAL WALL REINFORCING / DOWEL PLACEMENT
SD-4	0330-016	PIPE ENCASEMENT
SD-4	0330-017	PIPE ENCASEMENT
SD-4	0330-018	PIPE ENCASEMENT AT SLAB
SD-4	0330-021	PIPE COLLAR
SD-4	0330-024	SUMP DETAIL FOR VAULT WITHOUT FIXED PUMP
SD-4	0330-025	VAULT ROOF TO WALL CONNECTION
SD-5	0330-041	SLAB AT DOOR OPENING
SD-5	0330-043	TRENCH REINFORCING
SD-5	0330-044	IN-SLAB SUMP REINFORCEMENT
SD-5	0330-052	CONCRETE STAIR LANDING
SD-6	0330-053	GENERATOR FOUNDATION
SD-7	0330-056	CONCRETE EQUIPMENT PAD
SD-8	0330-057	ACHOR BOLT DETAILS
SD-8	0330-061A	PIPE SUPPORT - CONCRETE SADDLE
SD-8	0330-061C	PIPE SUPPORT - CONCRETE SADDLE
SD-8	0330-061D	PIPE SUPPORT - CONCRETE SADDLE
SD-8	0330-077	FORMED CONCRETE TRENCH
SD-8	0330-080A	CONCRETE CURB
SD-8	0330-081	SUMP DETAIL FOR VAULT WITHOUT FIXED PUMP
SD-8	0330-082	FLOOR DRAIN
SD-9	0330-084	CONDUIT IN STRUCTURAL CONCRETE
SD-9	0330-101	WALL PENETRATION
SD-9	0330-105	ADHESIVE DOWEL
SD-9	0340-095	SPLASH BLOCK
SD-10	0422-001	REINFORCED MASONRY WALL CORNERS (SINGLE & DOUBLE MAT)
SD-10	0422-003	CMU OPENING REINFORCEMENT
SD-10	0422-004	SPECIAL REINFORCED MASONRY SHEAR WALL
SD-10	0422-005	CMU WALL PIER
SD-11	0422-006	CMU WALL COLUMN
SD-11	0422-031	CMU CONTROL JOINT
SD-11	0422-046	MASONRY ANCHOR BOLT
SD-11	0512-002	POST BASE - STEEL
SD-11	0512-020	TYPICAL BEAM CONNECTION - STEEL
SD-11	0512-022	BEAM SINGLE PLATE SHEAR CONNECTION - STEEL
SD-12	0512-029	BEAM SINGLE PLATE SHEAR CONNECTION - STEEL
SD-12	0512-040	BEAM COLUMN CONNECTION - STEEL
SD-12	0512-041	CONTINUOUS TUBE COLUMN - BEAM CONNECTION - STEEL
SD-12	0512-056	BEAM WALL CONNECTION - STEEL
SD-12	0512-121	LIFTING EYE
SD-12	0512-123	ROOF SLAB LIFTING INSERT
SD-12	0512-151	SHIPS LADDER
SD-13	0531-001	DECKING LEDGER SUPPORT ANGLE
SD-13	0531-003	METAL DECK / WALL CONNECTION
SD-13	0531-021	ROOF DECK OPENING
SD-14	0551-041	STAIRS DETAIL
SD-15	0551-105	EXTERIOR LADDER
SD-15	0551-140	FLAT BAR LADDER - STAINLESS STEEL
SD-16	0552-001	RAILINGS
SD-17	0552-041	RAILINGS
SD-18	0552-042	WALL HANDRAIL - STEEL
SD-18	0553-001	STANDARD GRATING
SD-19	0553-004	ROOF HATCH FRAME AND COVER
SD-20	0558-002	BEAMSEAT CLOSURE PLATE
SD-20	0752-001	COPING (CONCRETE WALL)
SD-20	0754-101	BASE FLASHING
SD-20	0754-102	ROOF HATCH
SD-20	0754-103	SCUPPER
SD-20	0754-104	OVERFLOW SCUPPER
SD-20	0754-105	CONDUCTOR HEAD

DRAWING	DETAIL	TITLE
SD-21	0770-101	ROOF VENT
SD-21	0770-102	ROOF RIDGE
SD-21	0770-103	EAVE AT WALL - BASE PLATE
SD-21	0770-104	EAVE AT WALL - JOIST SEAT
SD-21	0770-105	LOW EAVE
SD-21	0770-106	RAKE
SD-21	0770-107	SIDING TRANSITION
SD-22	0811-001	DOOR HEAD
SD-22	0811-002	DOOR JAMB
SD-22	0811-101	DOOR HEAD
SD-22	0811-102	DOOR JAMB
SD-22	0830-101	ACCESS DOOR
SD-22	0833-003	ROLLUP DOOR HEAD (INSULATED)
SD-22	0833-004	ROLLUP DOOR JAMB AND SILL (INSULATED)
SD-23	0833-101	OVERHEAD COILING DOOR HEAD (INSULATED)
SD-23	0833-102	OVERHEAD COILING DOOR JAMB AND SILL (INSULATED)
SD-23	0871-001	DOOR SILL
SD-23	0890-001	LOUVER HEAD AND SILL
SD-23	0890-002	LOUVER HEAD AND SILL
SD-23	0996-101	TYPICAL V-GROOVE
SD-24	2230-170P	DUPLEX SUMP PUMP
SD-24	2230-172	SUMP DISCHARGE
SD-24	2240-115	MANUAL PIPE DRAIN
SD-24	2331-110	LOUVER/PLENUM CONNECTION
SD-24	2334-428	EXHAUST FAN
SD-24	2381-101	UNIT HEATER MOUNTING
SD-24	2605-017	CONDUIT SUPPORT ON STRUCTURE
SD-25	2605-202	GROUND TEST WELL
SD-25	2605-205	GROUND ELECTRODE
SD-25	2605-211	GROUND RING AND LOOP DETAIL
SD-25	2605-212	FIBER/COMM HANDHOLE AND ELECTRICAL HANDHOLE GROUNDING
SD-25	2605-235	GROUND ROD CONNECTION
SD-25	2605-265	TERMINATION OF SHIELDED INSTRUMENTATION CABLE
SD-25	2605-267	GROUNDING TAP DETAIL
SD-25	2605-268	GROUNDING PLATE
SD-26	2605-337P	FO PULL BOX SCHEDULE
SD-26	2605-339	FIBER OPTIC PULLBOX, HATCH & POSTS
SD-27	2605-305	CONDUIT TRANSITION AND SUPPORT
SD-27	2605-308	WATERTIGHT WALL CONDUIT SEAL
SD-27	2605-318	VERTICAL CONDUIT SUPPORT
SD-27	2605-400	DUCT BANK
SD-27	2605-420	TYPICAL UNDERGROUND CONDUIT
SD-27	2605-423	ELECTRICAL CONDUIT PLACEMENT
SD-27	2605-444	HANDHOLE
SD-27	2605-446	CONDUIT HANDHOLE / MANHOLE ENTRANCE
SD-28	2605-448	CABLE RACK
SD-28	2615-020	FRAMING CHANNEL PANEL SUPPORT
SD-28	2642-800P	SCHEDULE OF FO BOXES & CATHODIC STATIONS
SD-29	2642-801	TYPE A TEST STATION
SD-29	2642-802	TYPE F TEST STATION
SD-29	2642-812	TEST STATION OFFSET
SD-29	2642-814	POST STYLE - STEEL POST
SD-29	2642-910	WIRE CONNECTION FOR STEEL AND DUCTILE IRON PIPE
SD-29	2642-911	WIRE SPLICE
SD-30	2642-925	INSULATING FLANGE
SD-30	2642-929	DC BLOCKER
SD-30	2642-932	INSULATING BOLTS AT TAPPED VALVE FLANGES
SD-30	2642-933	TYPE C TEST STATION
SD-30	2642-934	ISOLATION BOND
SD-30	2813-004	ACCESS HATCH INTRUSION SWITCH DETAIL
SD-31	3123-116	TRENCH BACKFILL AND SURFACE RESTORATION IN ASPHALT PAVED AREAS
SD-31	3123-118	PAVEMENT RESTORATION
SD-31	3123-119	CONCRETE PIPE CAP DETAIL
SD-31	3123-900	FO CONDUITS REQUIRED FOR 60-INCH PIPE
SD-31	3123-901	TRENCH 1 - ULS PIPE
SD-32	3123-902	TRENCH 2 - ULS PIPE OPEN TERRAIN
SD-32	3123-903P	FINISHED TUNNEL SECTION - 78" CASING
SD-32	3123-904P	FINISHED TUNNEL SECTION - 84" LINER PLATE
SD-32	3123-905	FIELD RESTORATION
SD-32	3123-916	TYPICAL TRENCH FOR APPURTENANCE PIPING

DRAWING	DETAIL	TITLE
SD-33	3123-926	LARGE DIAMETER PIPELINE TRENCH CUTOFF
SD-33	3123-934	UTILITY MONITORING POINT
SD-33	3123-935	SURFACE AND SUBSURFACE MONITORING POINT (ARRAY)
SD-33	3123-936	SURFACE AND SUBSURFACE MONITORING POINT (SM & SSM)
SD-33	3125-200P	RETAINING WALL
SD-33	3127-926	UNDERGROUND UTILITY SUPPORT
SD-34	3212-255	PAVEMENT ASPHALT TO UTBC CONNECTION
SD-34	3212-272	UDOT PAVEMENT (NEW & REPLACEMENT) SECTION
SD-34	3213-240	CONCRETE PAVEMENT
SD-34	3216-310	CONCRETE CURB & GUTTER
SD-34	3216-330	CONCRETE VALLEY GUTTER
SD-34	3217-350	PRECAST CONCRETE WHEEL STOP
SD-35	3231-410	CHAIN LINK FENCE
SD-36	3231-415	DOUBLE SWING GATE
SD-36	3231-420	PEDESTRIAN GATE
SD-36	3231-426	ROLLING GATE
SD-37	3231-455	WIRE FIELD FENCE
SD-38	3305-740	EXTERIOR CLEANOUT
SD-38	3305-901	COATINGS AND LINING AT WSP JOINTS
SD-38	3305-902	WSP LINING & COATING
SD-38	3305-903	WSP LAP JOINT
SD-38	3305-908	WSP BUTT STRAP JOINT
SD-38	3305-910	WSP BUTT STRAP SPLICE
SD-38	3305-916	SEEP RING
SD-39	3305-938P	WSP FIELD INSTALLED OUTLETS
SD-39	3305-937	WSP OUTLETS
SD-39	3305-940	ACCESS MANWAY
SD-40	3305-941	CONSTRUCTION ACCESS MANWAY
SD-40	3305-942	6" PASSHOLE
SD-40	3305-943	4" PASSHOLE W/ THREADED PLUG
SD-40	3305-944	TEST HEAD W/ ACCESS MANWAY
SD-41	3305-945	TEST HEAD
SD-41	3305-946	WSP POOL
SD-41	3305-950	CONCRETE ENCASEMENT DETAILS
SD-41	3305-954	PERMANENT GUARD POST
SD-41	3311-768	CONCRETE THRUST WALL
SD-42	3311-880	DRAINAGE DITCH
SD-42	3311-887	PIPE CONC PLUG
SD-42	3312-649	COMBINATION AIR VALVE ASSEMBLY - PIPE MOUNTED
SD-42	3312-650	COMBINATION AIR VALVE ASSEMBLY - PIPE MOUNTED
SD-42	3312-766	THRUST BLOCK DESIGN
SD-42	3312-767	THRUST BLOCK FOR VERTICAL ELBOWS
SD-43	3312-800	GATE VALVE & BURIED VALVE BOX
SD-43	3312-801	GATE VALVE SUPPORT FOR 6" - 12" UNRESTRAINED JOINT PIPES
SD-43	3312-810	TYPICAL WATERLINE LOOP
SD-43	3312-820	SEWER SERVICE LATERAL CONSTRUCTION
SD-44	3344-780	CATCH BASIN
SD-44	3344-782	CATCH BASIN FRAME & GATE
SD-44	3344-800	18" DEEP CONCRETE LINED DITCH
SD-45	4005-500	PIPE SUPPORT
SD-45	4005-504	PIPE SUPPORT - WALL MOUNTED
SD-45	4027-606	PIPE WALL PENETRATION
SD-45	4027-625	VENT PIPE ASSEMBLY
SD-45	4090-213	MAGMETER - NON-CONDUCTIVE - GROUNDING
SD-45	4090-690P	DIGITAL PRESSURE GAUGE & TRANSMITTER TO RTU ASSEMBLY
SD-45	4091-254	FLOOR HIGH WATER ALARM
SD-45	4091-388	WALL MOUNTED PANEL OR INSTRUMENT AT INSTALLATION



DSGN	R PHILLIPS									
DR	R PHILLIPS									
CHK	A SMITH									
APVD	A SMITH	NO.	DATE	REVISION	BY	APVD				

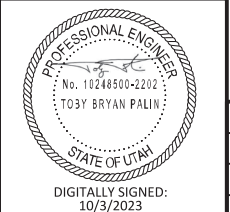
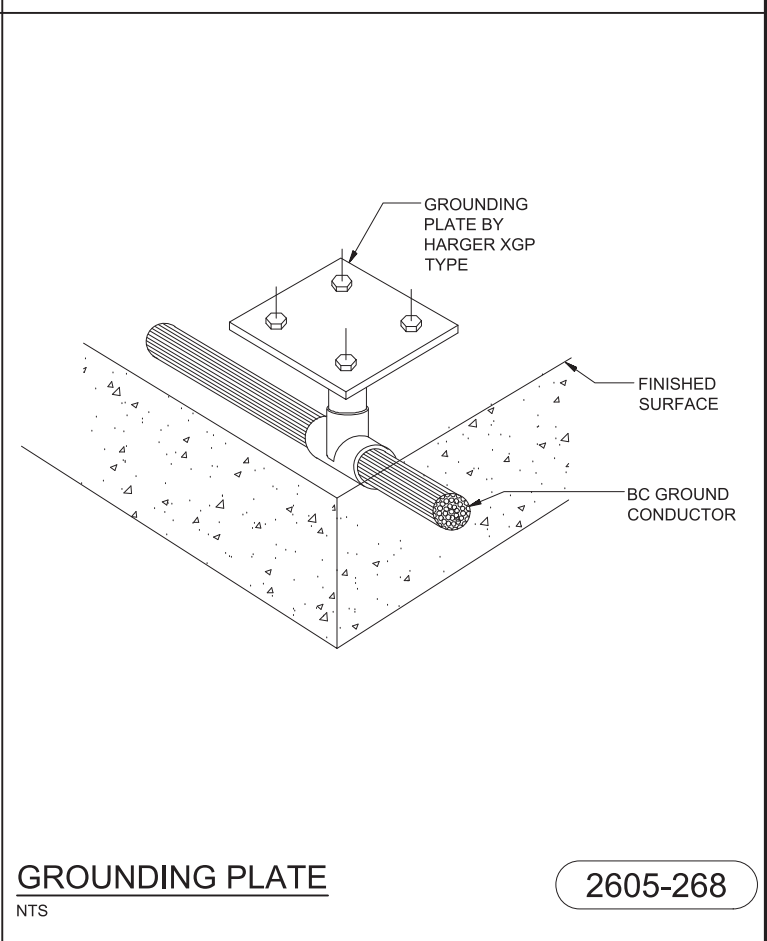
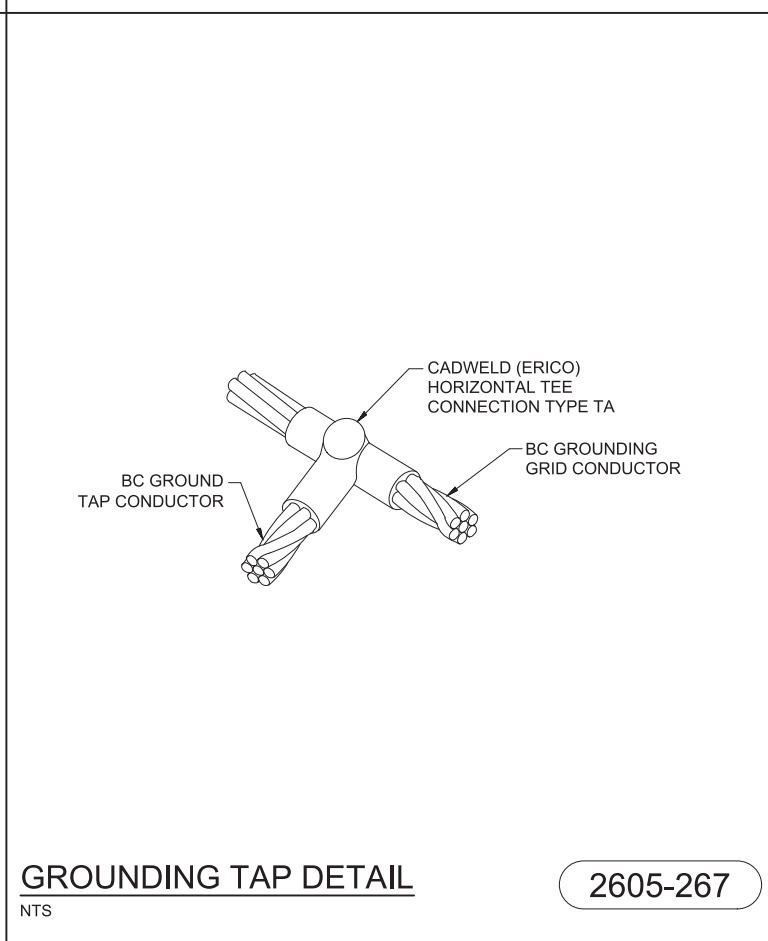
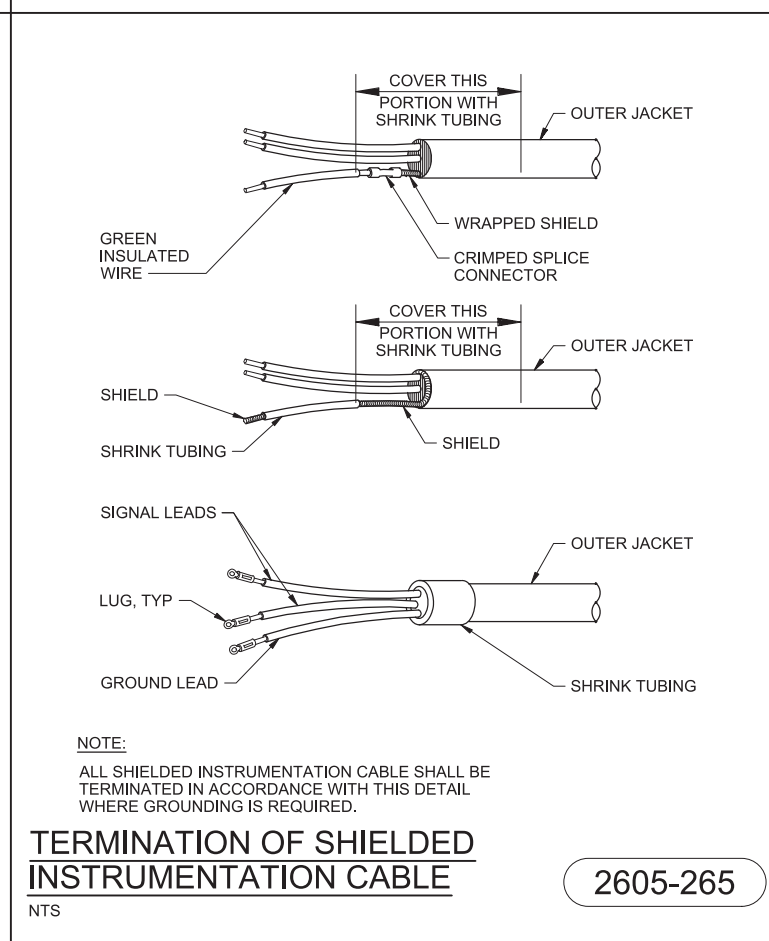
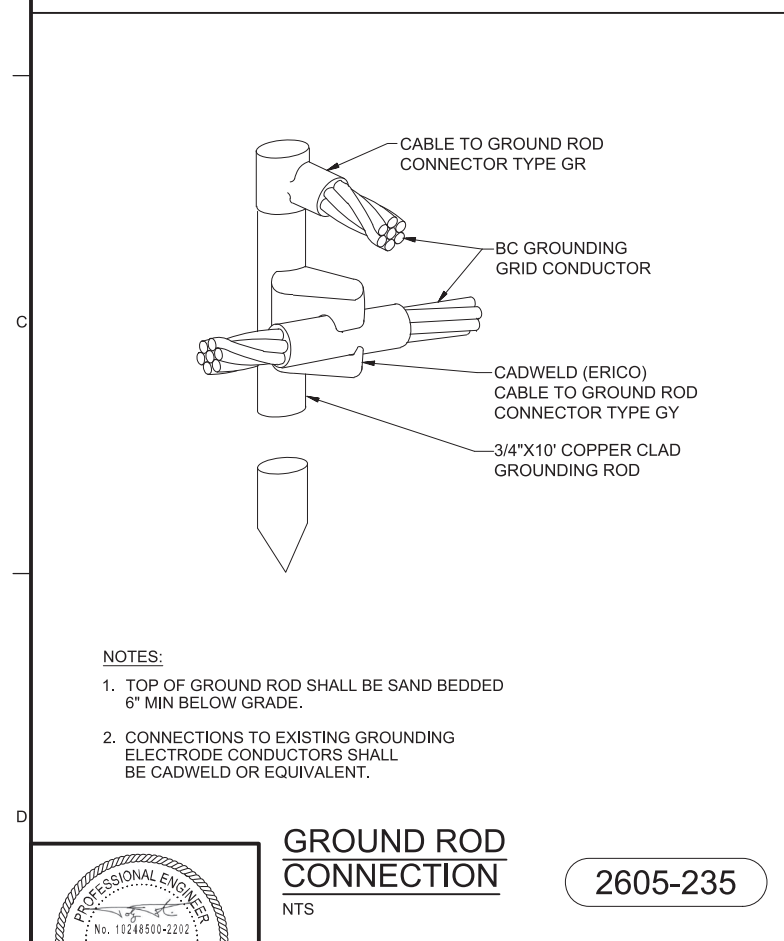
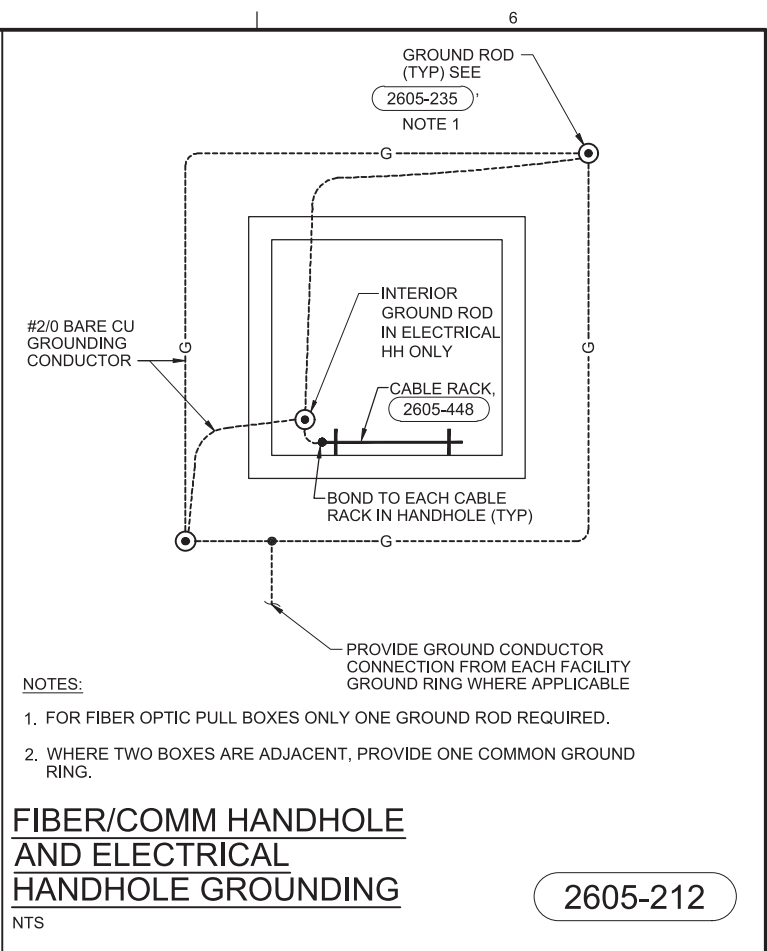
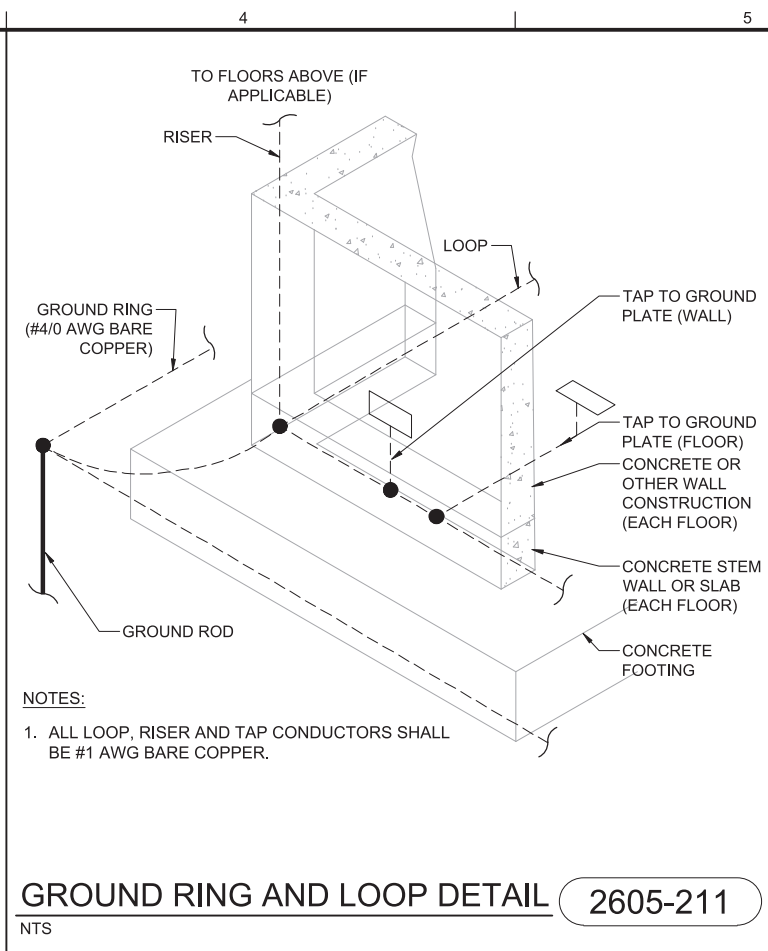
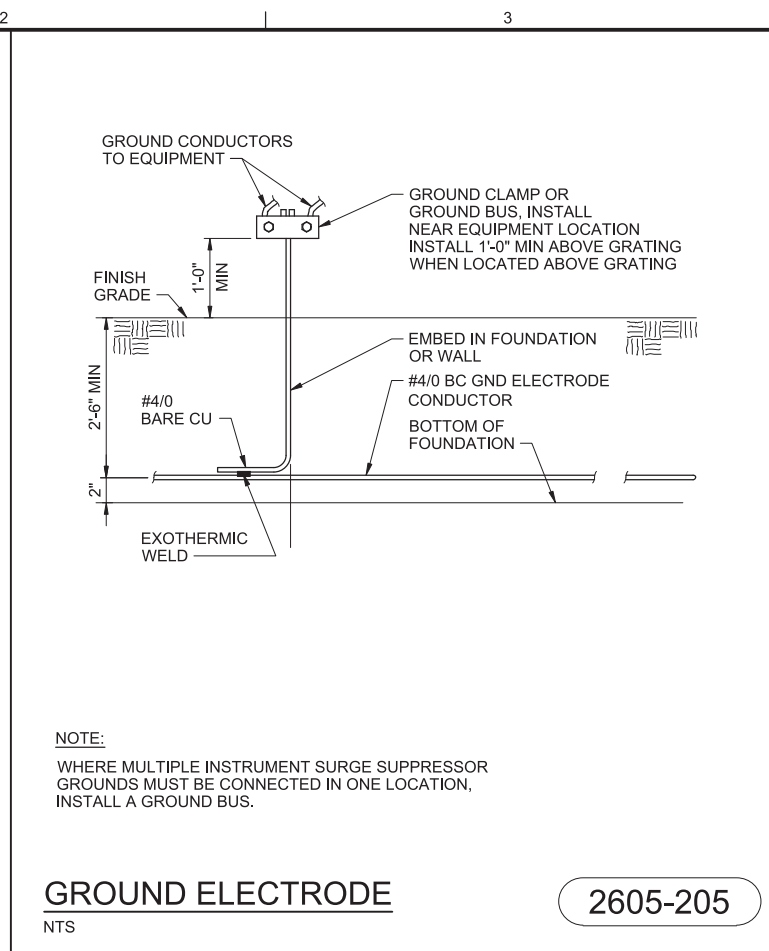
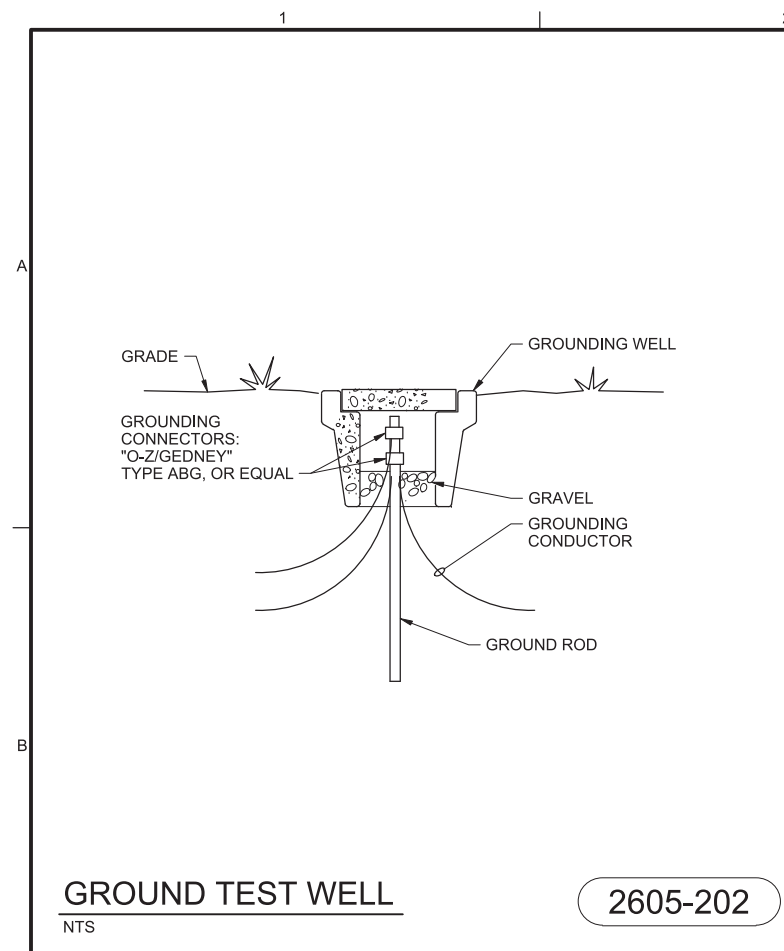
VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
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SPANISH FORK SANTAQUIN PIPELINE
 SANTAQUIN REACH

STANDARD DETAILS
 DRAWING LIST

SHEET	XX OF XX
DWG	SD-1
DATE	OCTOBER 2023
CONTRACT	C-2023-01



DSGN	M PAWLOWSKI						
DR	R PHILLIPS						
CHK	T PALIN						
APVD	T PALIN	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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 0 1"
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SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

SHEET	XX OF XX
DWG	SD-25
DATE	OCTOBER 2023
CONTRACT	C-2023-01

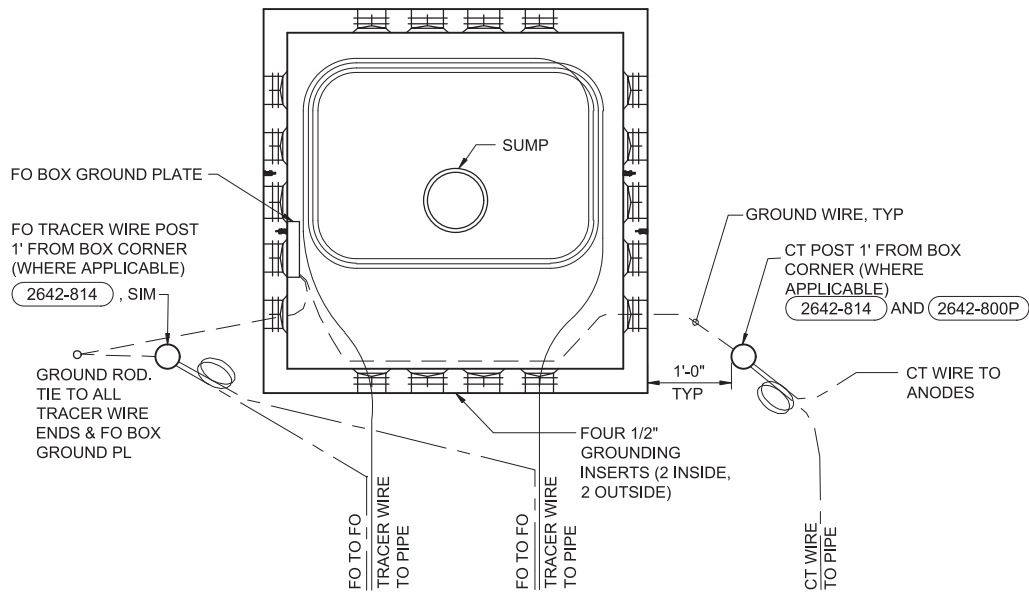
NOTES:

- FO PULL BOXES & CATHODIC PROTECTION / ANODE CT STATIONS ARE SUMMARIZED IN A JOINT SCHEDULE IN (2642-800P)
- SEE (2605-339) FOR FIBER OPTIC BOX DETAILS.

FO PULL BOXES SCHEDULE

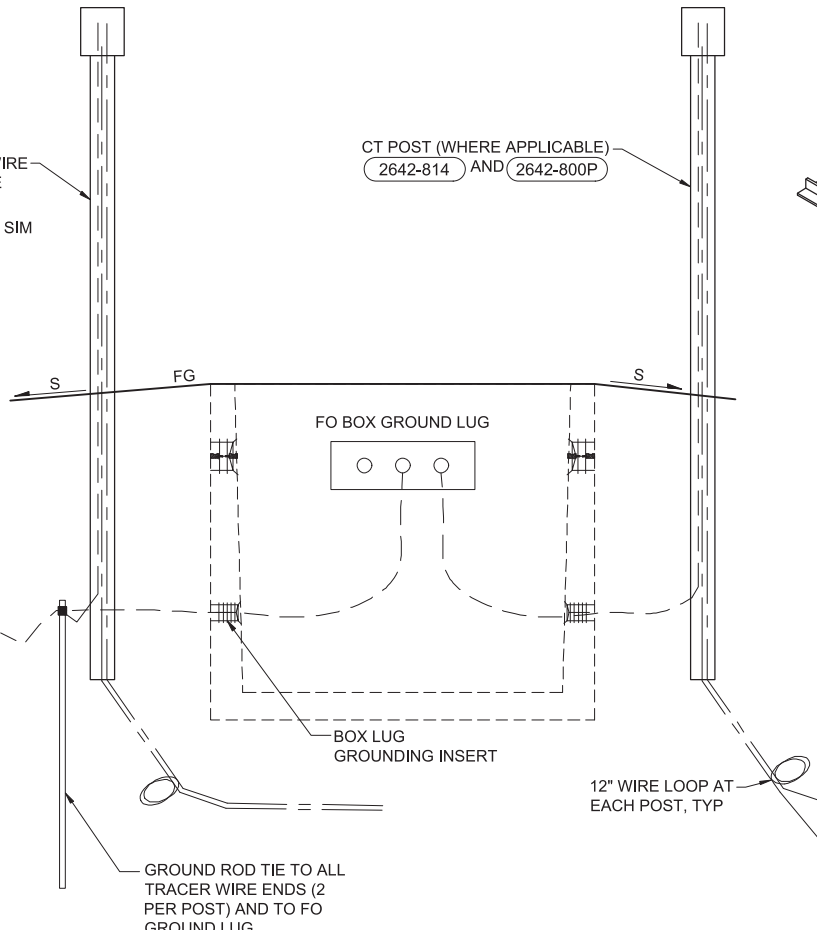
2605-337P

NTS



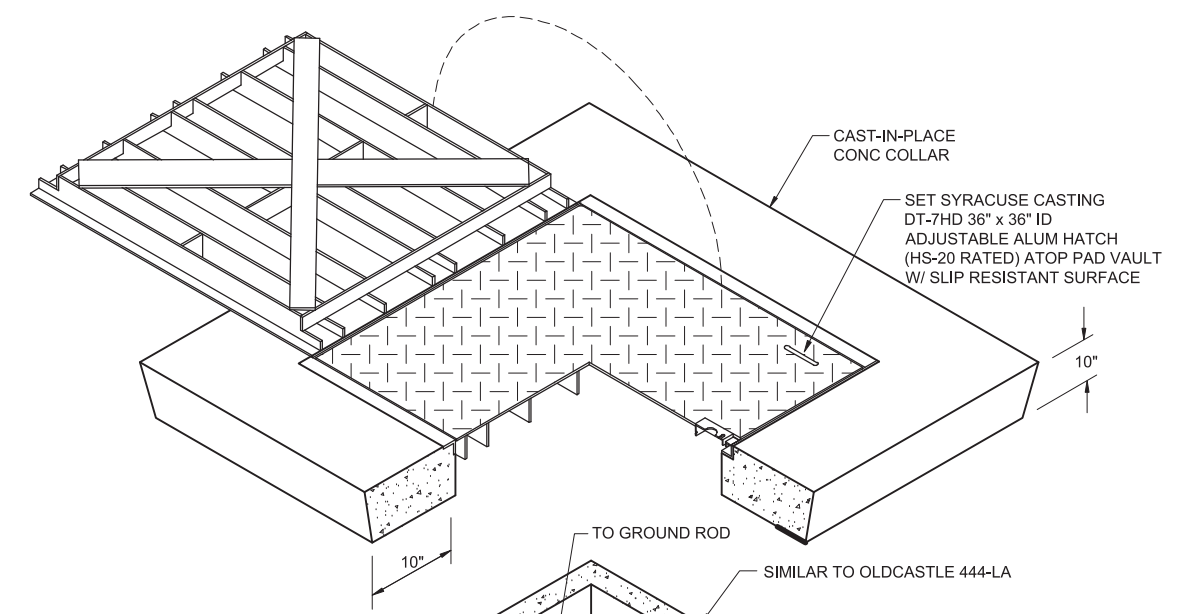
PLAN OF BOX AND POSTS

NTS

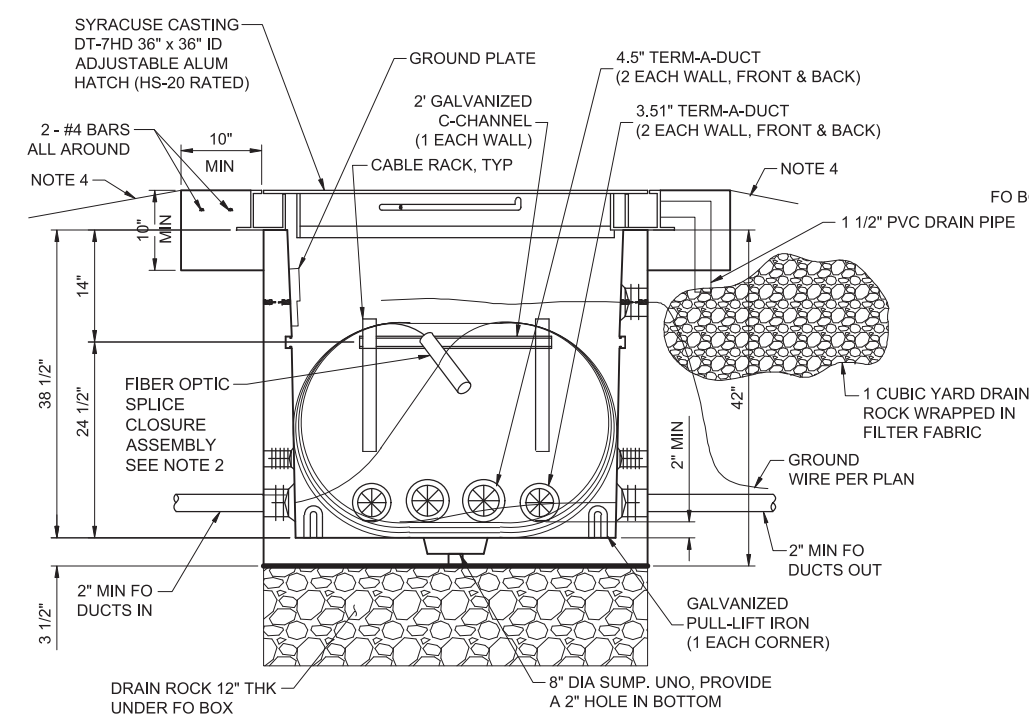


SECTION W/BOX AND POSTS GROUING

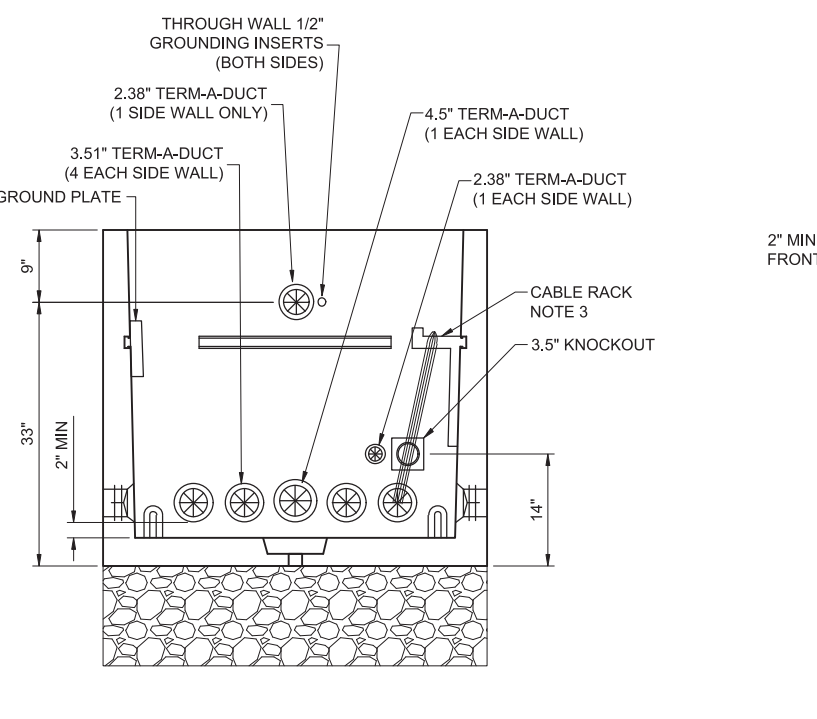
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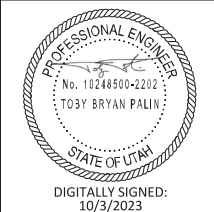
FRONT W/ HATCH



SIDE

NOTES:

- ATTACH FIBER OPTIC CABLE TO CABLE RACK WITH CABLE TIES. PROVIDE A MINIMUM OF 100 FEET OF CONTINUOUS CABLE IN EVERY PULLBOX AS SPECIFIED IN SECTION 40 95 80.
- PROVIDE FIBER OPTIC SPLICE CLOSURE ASSEMBLY WHERE REQ'D.
- UNDERGROUND DEVICES INC. HEAVY DUTY NON METALLIC CABLE RACK (CR26-B) W/ 8\"/>



FIBER OPTIC PULLBOX, HATCH & POSTS

NTS

DSGN	M PAWLOWSKI																			
DR	R PHILLIPS																			
CHK	T PALIN																			
APVD	T PALIN																			
		NO.	DATE	REVISION	BY	APVD														

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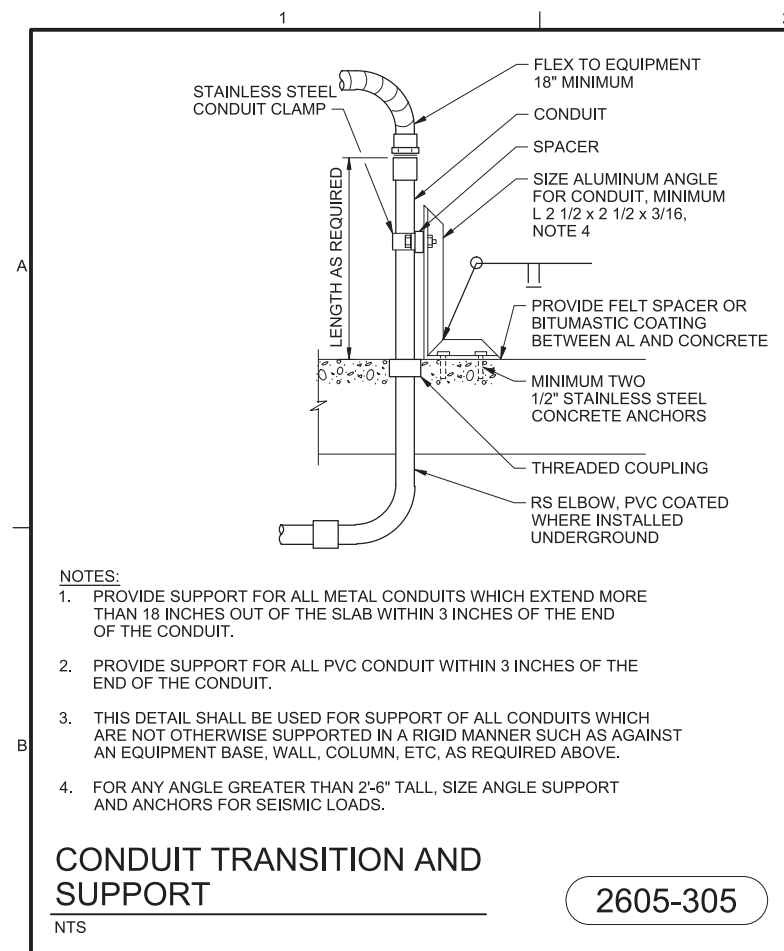


SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

STANDARD DETAILS

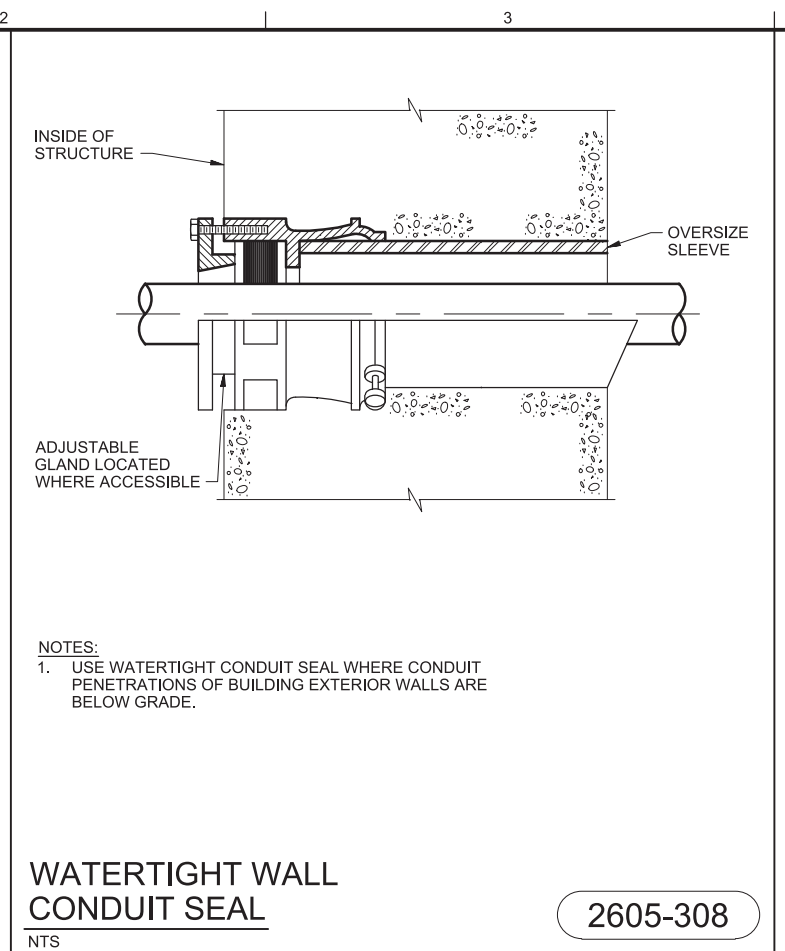
2605-339

SHEET	XX OF XX
DWG	SD-26
DATE	OCTOBER 2023
CONTRACT	C-2023-01



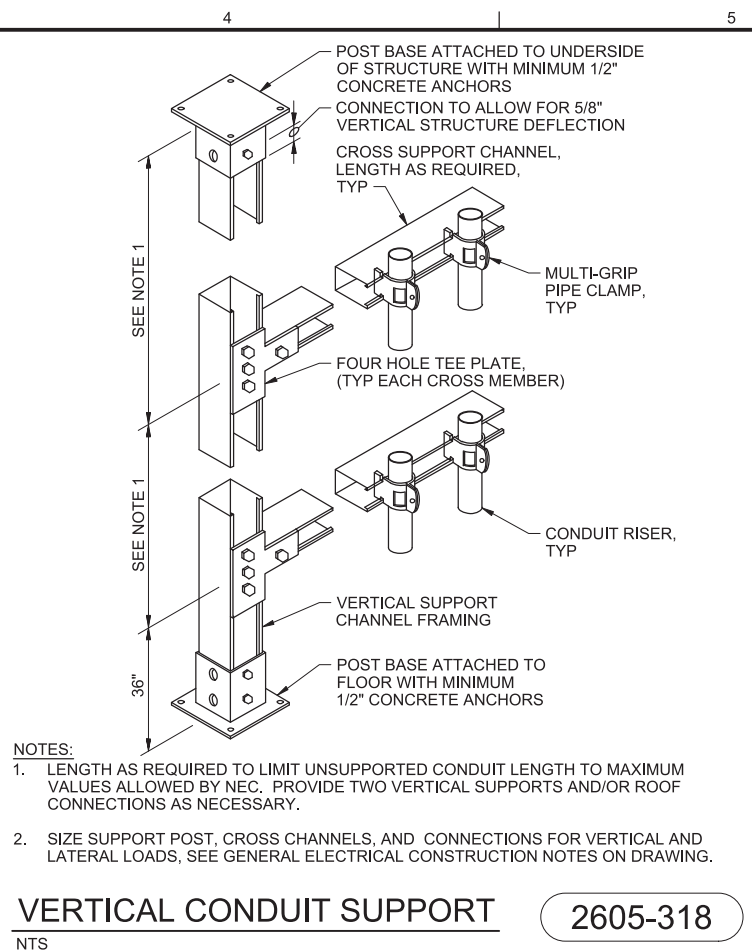
- NOTES:**
1. PROVIDE SUPPORT FOR ALL METAL CONDUITS WHICH EXTEND MORE THAN 18 INCHES OUT OF THE SLAB WITHIN 3 INCHES OF THE END OF THE CONDUIT.
 2. PROVIDE SUPPORT FOR ALL PVC CONDUIT WITHIN 3 INCHES OF THE END OF THE CONDUIT.
 3. THIS DETAIL SHALL BE USED FOR SUPPORT OF ALL CONDUITS WHICH ARE NOT OTHERWISE SUPPORTED IN A RIGID MANNER SUCH AS AGAINST AN EQUIPMENT BASE, WALL, COLUMN, ETC., AS REQUIRED ABOVE.
 4. FOR ANY ANGLE GREATER THAN 2'-6\"/>

CONDUIT TRANSITION AND SUPPORT 2605-305
NTS



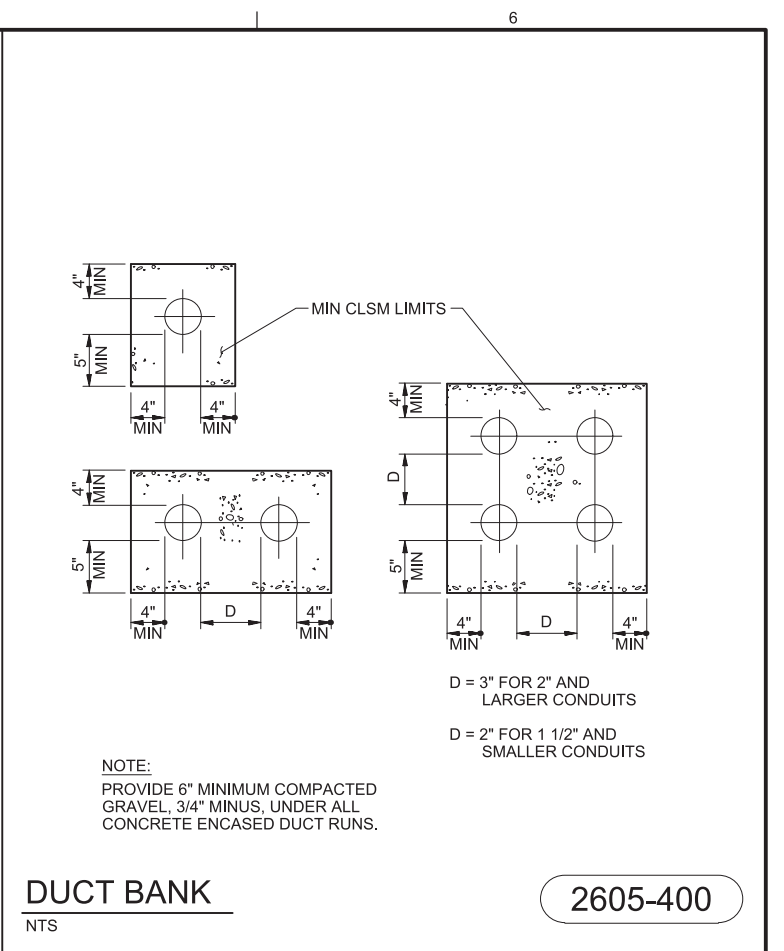
- NOTES:**
1. USE WATERTIGHT CONDUIT SEAL WHERE CONDUIT PENETRATIONS OF BUILDING EXTERIOR WALLS ARE BELOW GRADE.

WATERTIGHT WALL CONDUIT SEAL 2605-308
NTS



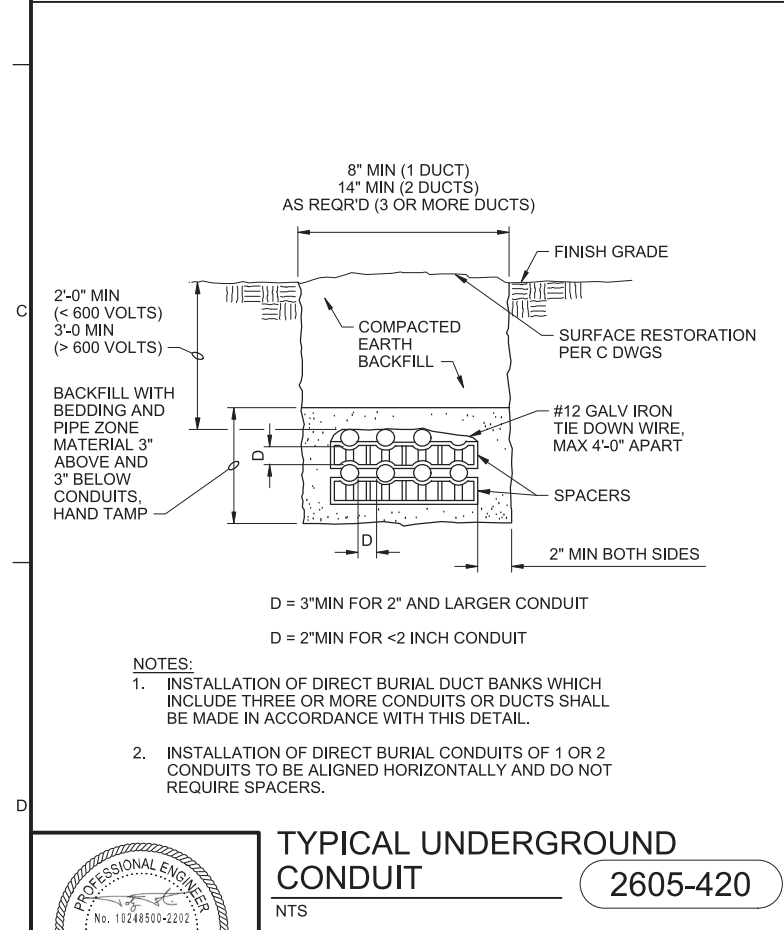
- NOTES:**
1. LENGTH AS REQUIRED TO LIMIT UNSUPPORTED CONDUIT LENGTH TO MAXIMUM VALUES ALLOWED BY NEC. PROVIDE TWO VERTICAL SUPPORTS AND/OR ROOF CONNECTIONS AS NECESSARY.
 2. SIZE SUPPORT POST, CROSS CHANNELS, AND CONNECTIONS FOR VERTICAL AND LATERAL LOADS, SEE GENERAL ELECTRICAL CONSTRUCTION NOTES ON DRAWING.

VERTICAL CONDUIT SUPPORT 2605-318
NTS



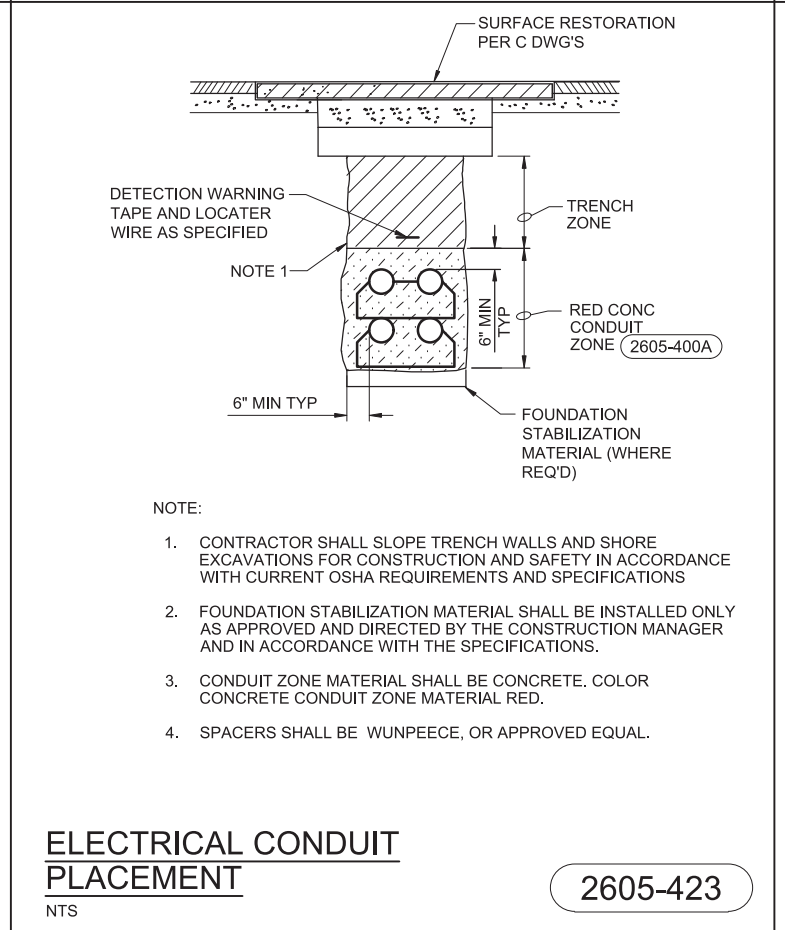
NOTE:
PROVIDE 6\"/>

DUCT BANK 2605-400
NTS



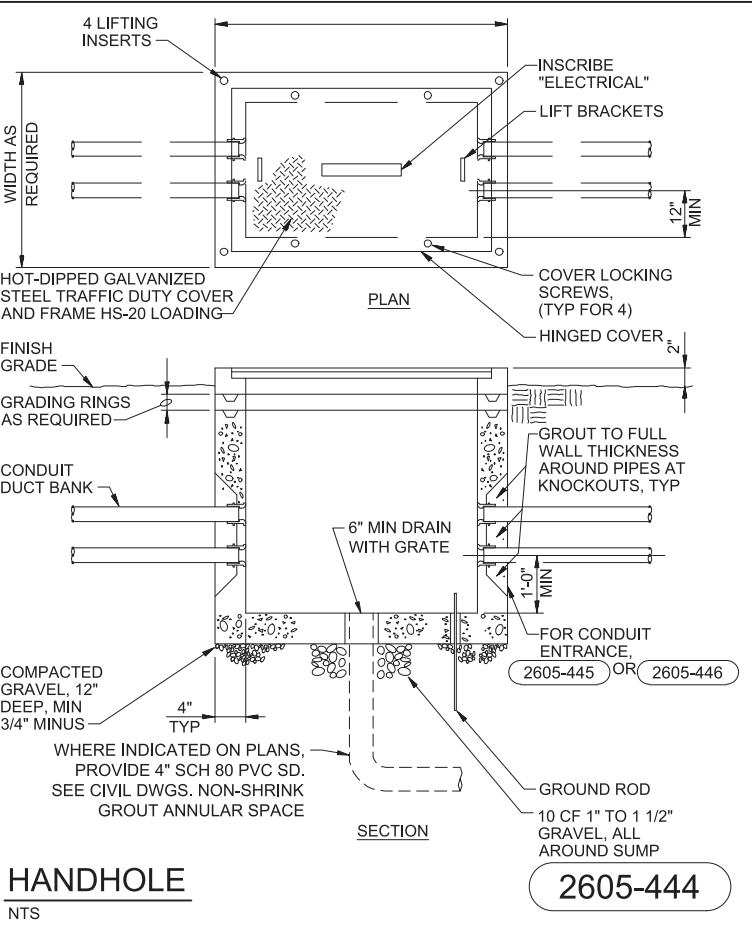
- NOTES:**
1. INSTALLATION OF DIRECT BURIAL DUCT BANKS WHICH INCLUDE THREE OR MORE CONDUITS OR DUCTS SHALL BE MADE IN ACCORDANCE WITH THIS DETAIL.
 2. INSTALLATION OF DIRECT BURIAL CONDUITS OF 1 OR 2 CONDUITS TO BE ALIGNED HORIZONTALLY AND DO NOT REQUIRE SPACERS.

TYPICAL UNDERGROUND CONDUIT 2605-420
NTS



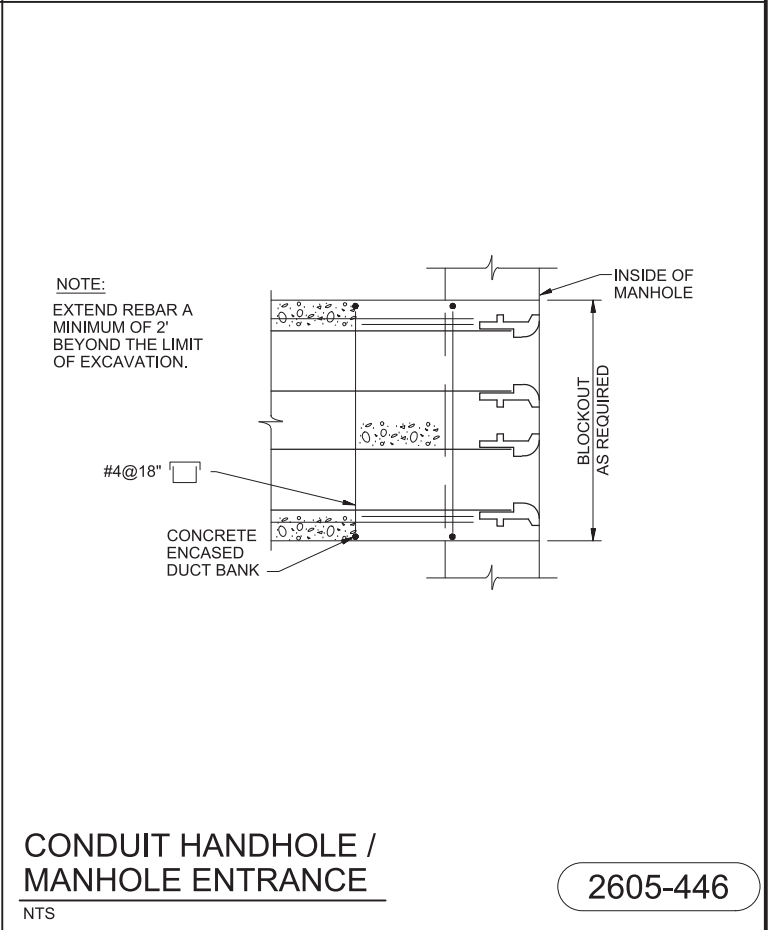
- NOTE:**
1. CONTRACTOR SHALL SLOPE TRENCH WALLS AND SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS
 2. FOUNDATION STABILIZATION MATERIAL SHALL BE INSTALLED ONLY AS APPROVED AND DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH THE SPECIFICATIONS.
 3. CONDUIT ZONE MATERIAL SHALL BE CONCRETE. COLOR CONCRETE CONDUIT ZONE MATERIAL RED.
 4. SPACERS SHALL BE WUNPEECE, OR APPROVED EQUAL.

ELECTRICAL CONDUIT PLACEMENT 2605-423
NTS



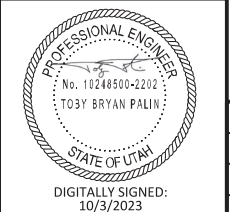
WHERE INDICATED ON PLANS, PROVIDE 4\"/>

HANDHOLE 2605-444
NTS



NOTE:
EXTEND REBAR A MINIMUM OF 2' BEYOND THE LIMIT OF EXCAVATION.

CONDUIT HANDHOLE / MANHOLE ENTRANCE 2605-446
NTS



DSGN	M PAWLOWSKI
DR	R PHILLIPS
CHK	T PALIN
APVD	T PALIN

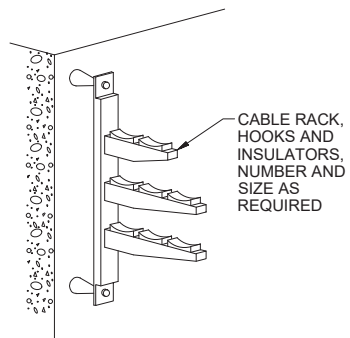
NO.	DATE	REVISION	BY	APVD

VERIFY SCALE
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SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

SHEET	XX OF XX
DWG	SD-27
DATE	OCTOBER 2023
CONTRACT	C-2023-01

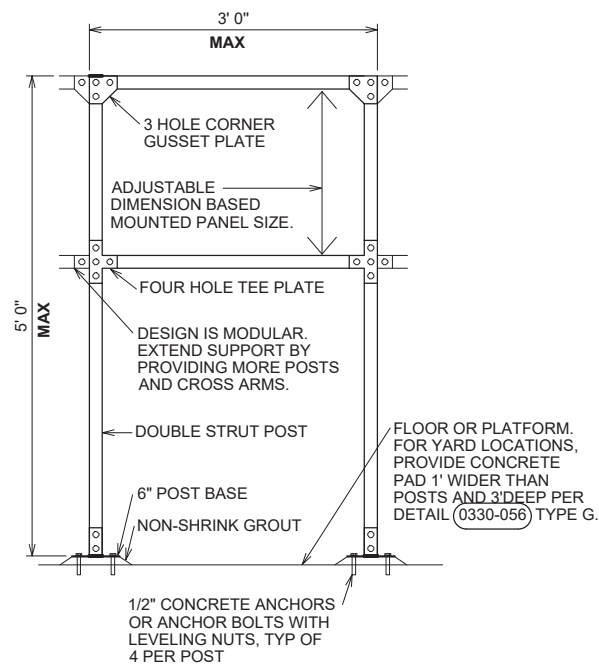


CABLE RACK

2605-448

NTS

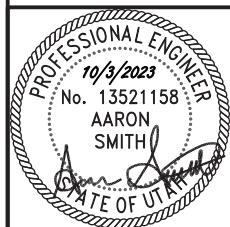
FRAMING CHANNEL SHALL BE 12 GAUGE HOT DIPPED GALVANIZED EACH CHANNEL SIDE SHALL BE MINIMUM OF DIMENSION OF 1 5/8"



FRAMING CHANNEL PANEL SUPPORT

2615-020

NTS



DSGN	J HANSEN
DR	R PHILLIPS
CHK	A SMITH
APVD	A SMITH

NO.	DATE	REVISION	BY	APVD

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

STANDARD DETAILS

2642-800P

SHEET	XX OF XX
DWG	SD-28
DATE	OCTOBER 2023
CONTRACT	C-2023-01

SCHEDULE OF FO BOXES / POSTS & CT STATION POSTS

60" PIPE STA	60" PIPE OFFSET	FO HH #	CT STA DETAIL	ANODES OFFSET	ANODE QUANTITY	NOTES
713+82	8.6'RT	HH-XX	2642-801	N/A	N/A	SPLICE CABLE TO EXST FO IN BOX. MOUNT NEW FO TRACER WIRE ON EXST POST
731+25	35'RT	HH-730	2642-801	15'RT	7	LOCATE FO BOX AND CT POST NEXT TO EXST UTILITY POLE. ALIGN ANODE BED PARALLEL TO ROADWAY
743+55	15'LT	N/A	2642-933	N/A	N/A	2 POSTS, 1 CT POST TO PIPE & CASING + FO TRACER WIRE POST PLACED 1' APART
746+50	15'RT	HH-746	2642-933	15'RT	7	2 POSTS, 1 CT POST TO PIPE & CASING + FO TRACER WIRE POST PLACED 1' APART
758+75	8.3'RT	HH-758	2642-801	12'RT	7	LOCATE FO BOX & CT POST NEXT TO VAULT. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
777+80	10'RT	HH-777	2642-801	12.5'RT	7	LOCATE FO BOX AGAINST RAILROAD BOUNDARY. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
785+15	10'RT	HH-785	2642-801	12.5'RT	7	LOCATE FO BOX AGAINST RAILROAD BOUNDARY. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
804+35	18'RT	HH-804	2642-801	12.5' RT	7	LOCATE FO BOX & CT POST NEXT TO VAULT. ALIGN ANODE BED PARALLEL TO USA FEE TITLE BOUNDARY.
815+25	6'RT	HH-816	2642-801	12.5'RT	7	LOCATE FO BOX & CT POST NEXT TO EXST UTILITY POLE.
838+00	26.8'LT	HH-838	N/A	N/A	N/A	LOCATE FO BOX IN PARK STRIP.
846+10	20.5'LT	HH-846	2642-801	22.2'LT	7	LOCATE FO BOX & CT POST IN PARKSTRIP. ALIGN ANODE BED WITHIN PARKSTRIP.
853+25	N/A	N/A	2642-802	N/A	N/A	LOCATE 1 CT POST UPSTA FROM 8" DI CROSSING BEHIND CURB. PLACE WIRES NEXT TO 60" PIPE. 1 CT POST TO PIPE AND 8" DI AT CROSSING.
861+40	10'LT	HH-861	2642-801	10'LT	7	LOCATE FO BOX AGAINST RAILROAD BOUNDARY. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
876+50	34.4'RT	HH-877	2642-801	34.4'RT	7	LOCATE FO BOX AGAINST RAILROAD BOUNDARY. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
890+25	13'LT	HH-890	2642-802	20.5'LT	7	LOCATE FO BOX AGAINST ACCESS MW VAULT. ALIGN ANODE BED PARALLEL TO RIGHT OF WAY. 2 POST, 1 CT POST TO PIPE & 8" GAS CROSSING + FO TRACER WIRE POST PLACED 1' APART.
893+60	15'LT	N/A	2642-933	N/A	N/A	2 POSTS, 1 CT POST TO PIPE & CASING + FO TRACER WIRE POST PLACED 1' APART
896+15	19'RT	N/A	2642-933	10'RT	7	2 POSTS, 1 CT POST TO PIPE & 1 CT POST TO CASING + FO TRACER WIRE POST PLACED 1' APART
901+76	30'RT	HH-901	2642-801	30.6'RT	7	LOCATE FO BOX AGAINST RAILROAD BOUNDARY. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
919+35	8.5'RT	HH-919	2642-801	24.5'RT	7	LOCATE FO BOX & CT POST NEXT TO VAULT. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY
933+25	14.3'RT	HH-933	2642-933	16.6'RT	7	LOCATE FO BOX & CT POST NEXT TO VAULT. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY. 2 CT POST TO PIPE & CASING
934+80	20'RT	N/A	2642-933	15'LT	7	2 POSTS, 1 CT POST TO PIPE & CASING + FO TRACER WIRE POST PLACED 1' APART
944+25	21.3'LT	HH-943	2642-801	22.5'LT	7	LOCATE FO BOX SOUTH SIDE OF VAULT. LOCATE CT POST NEAR INLET OF 60" WSP EAST SIDE. ALIGN ANODE BED PARALLEL TO RAILROAD BOUNDARY.
MAPLETON HIGH PRESSURE INLET	N/A	N/A	2642-801	10'LT	3	LOCATE CT POST WEST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 20" INLET PIPE, 1 CT POST TO PIPE.
MAPLETON HIGH PRESSURE OUTLET	N/A	N/A	2642-801	10'LT	2	LOCATE CT POST EAST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 12" OUTLET PIPE, 1 CT POST TO PIPE.

NOTES:

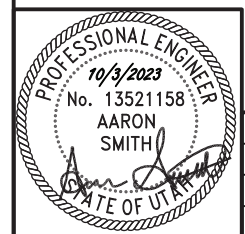
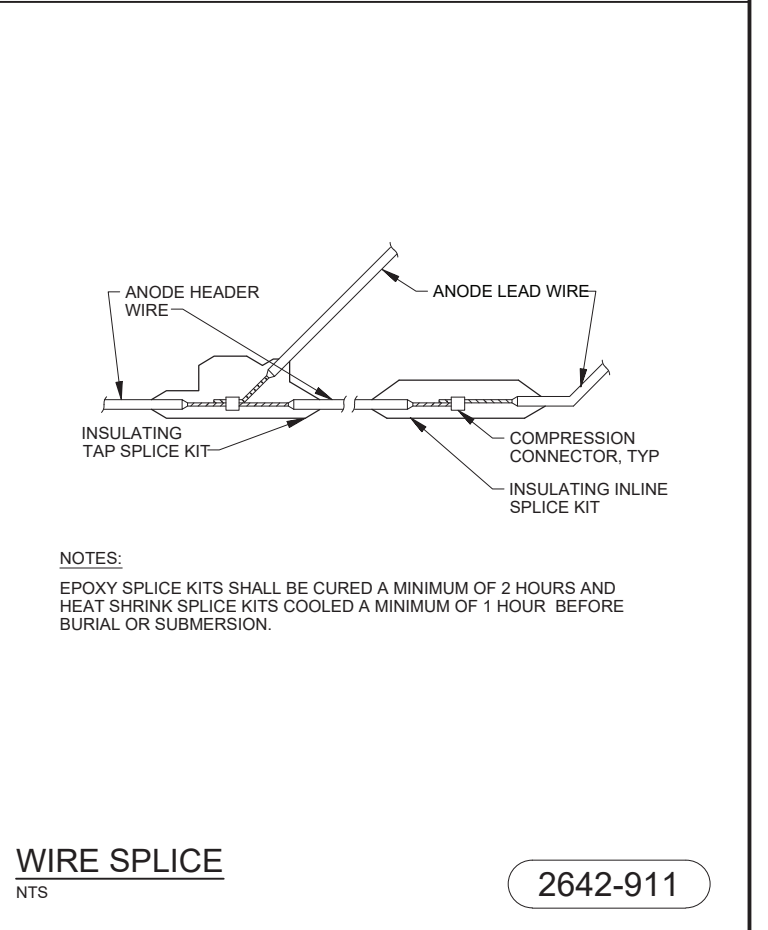
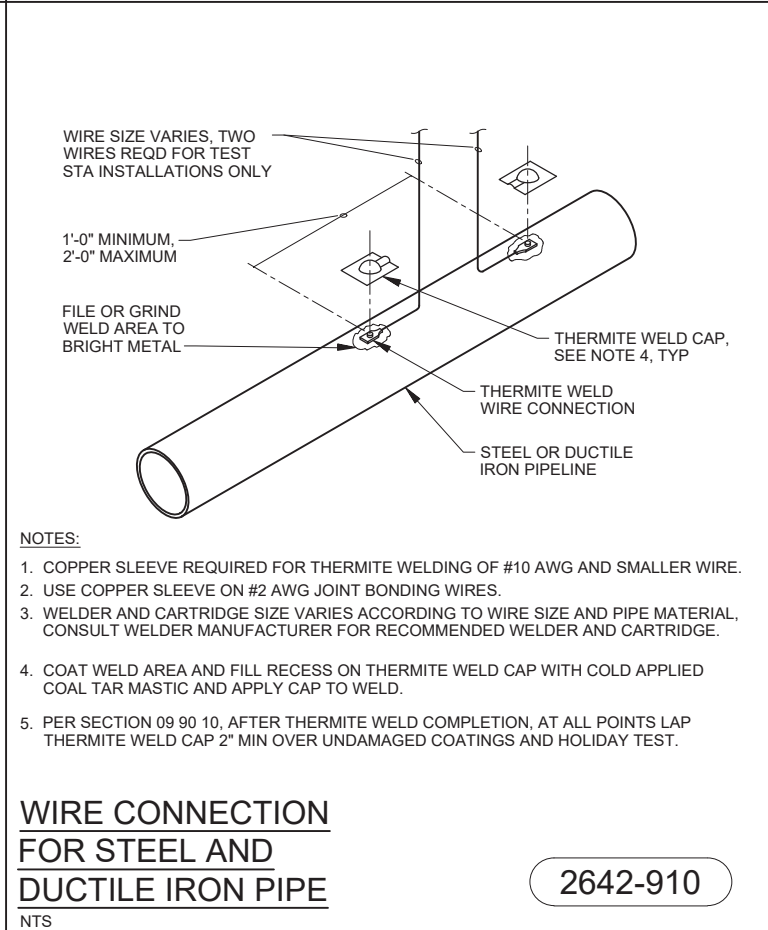
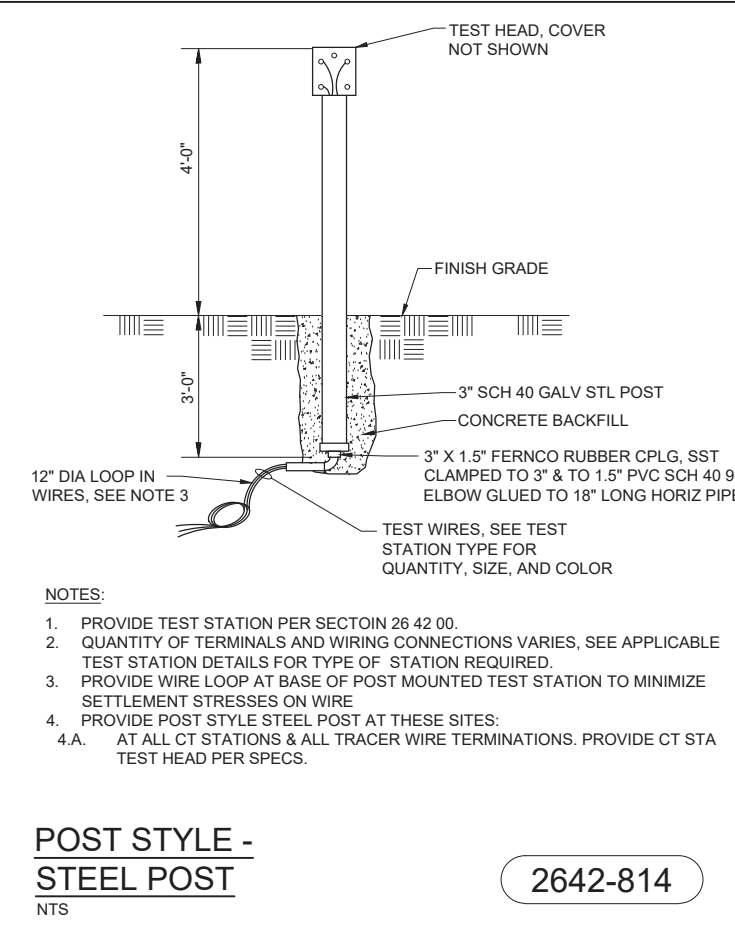
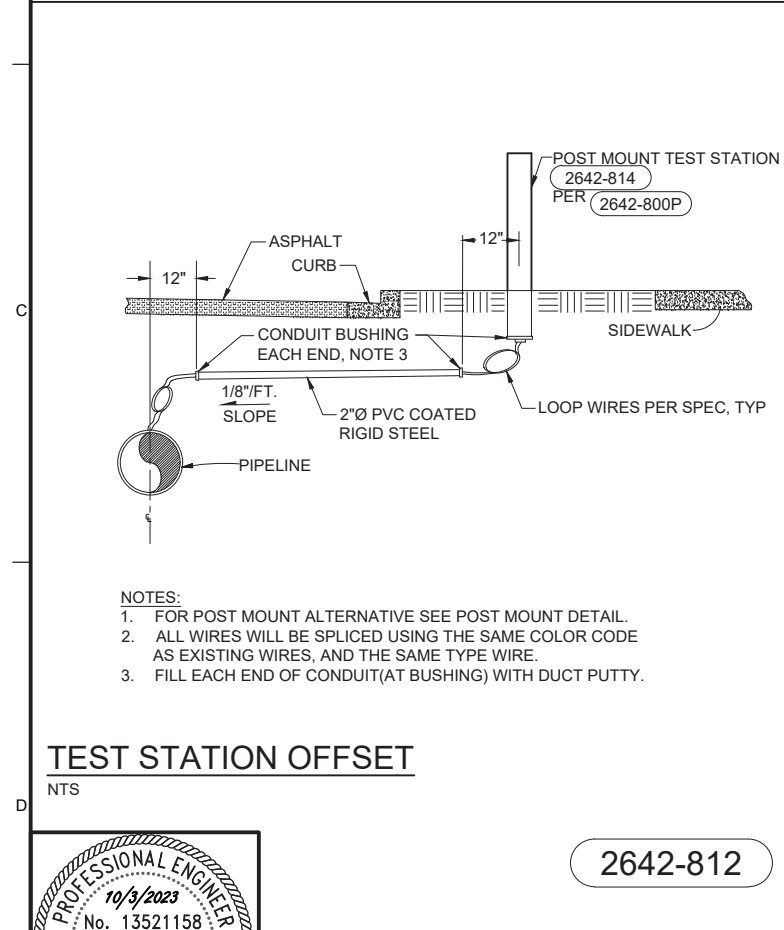
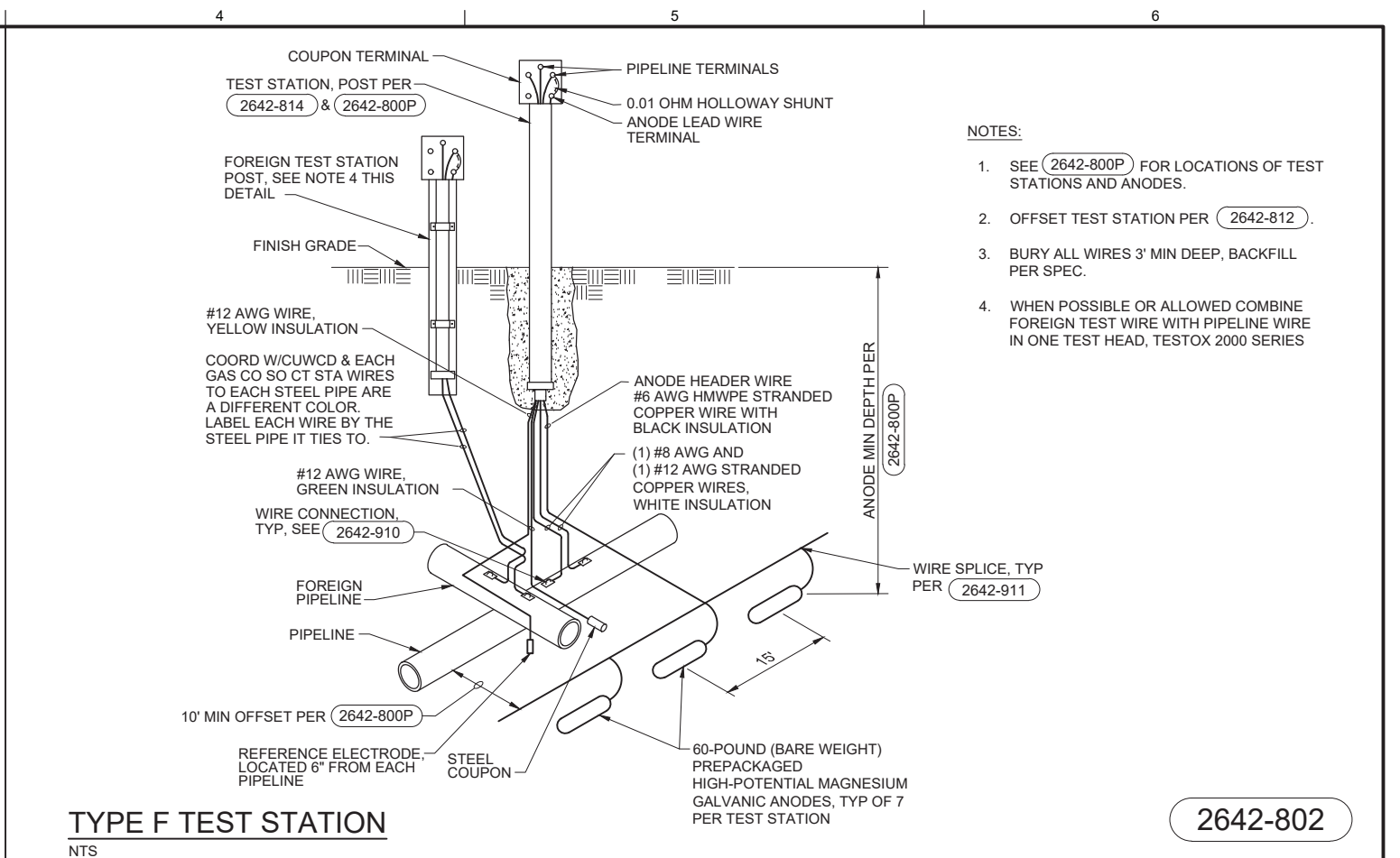
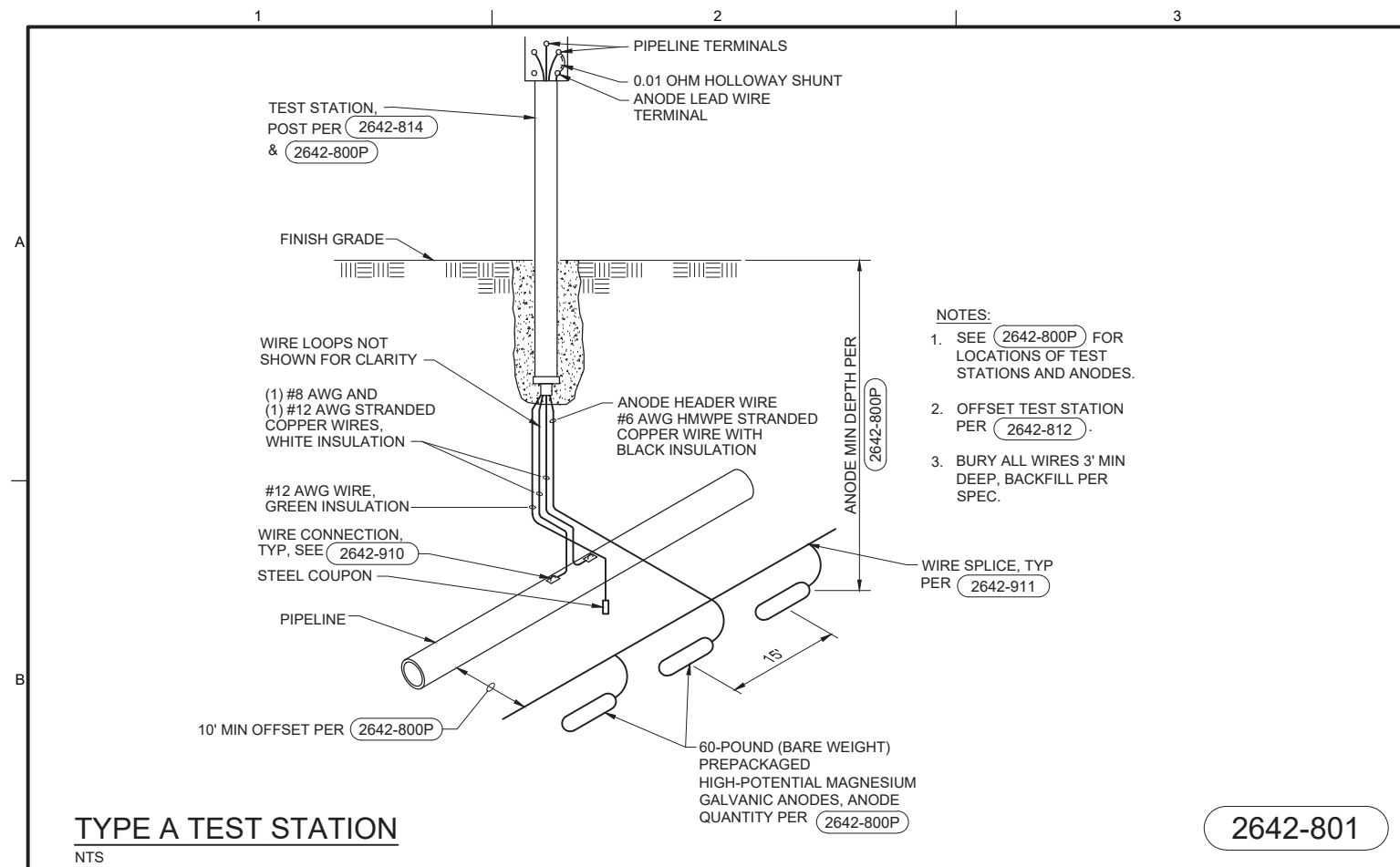
- FO BOX PER (2605-339). 2" HOLE IN BOX FLOOR DRAINS INTO 12" THK DRAIN ROCK BELOW BOX.
- SET CT STA POST ON SIDE OF FO BOX W/ANODES, UNO.
- PUT ANODE WIRES 5' MIN DEEP. PUT TOP ANODES TO DEPTH INDICATED BY AUGERING OR TRENCHING. ANODES TO BE PLACED IN SEPARATED TRENCH FROM PIPE. ANODES SHALL NOT BE PLACED IN CLSM OR FREE DRAIN BACKFILL
- FO TRACER WIRE POST PER (2642-814) ON FO BOX OPPOSITE SIDE FROM CT STA, UNO.
- SET CL FO BOX + (CT & TRACER) POSTS AT THE SAME OFFSET AS ANODES UNO.
- COORDINATE WITH CITY FO CONDUITS AND BOXES IN TABLE (2642-800S)
- ENSURE PIPES ARE ISOLATED FROM CASED CROSSINGS AND VAULT REBAR AND GROUNDING SYSTEMS BY TESTING.

SCHEDULE OF FO BOXES, & CATHODIC STATIONS

NTS

SCHEDULE OF FO BOXES / POSTS & CT STATION POSTS

60" PIPE STA	60" PIPE OFFSET	FO HH #	CT STA DETAIL	ANODES OFFSET	ANODE QUANTITY	NOTES
SALEM EAST OUTLET	N/A	N/A	2642-801	10'LT	2	LOCATE CT POST NORTH SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 12" OUTLET PIPE, 1 CT POST TO PIPE.
SALEM WOODLAND HILLS DRIVE NORTH INLET	N/A	N/A	2642-801	10' RT	4	LOCATE CT POST ON NORTH SIDE OF VAULT. 1 CT POST TO PIPE.
SALEM WOODLAND HILLS DRIVE SOUTH INLET	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST WEST SIDE OF VAULT ON SOUTH INLET. 1 CT POST TO PIPE.
SALEM WOODLAND HILLS DRIVE SOUTH OUTLET	N/A	N/A	2642-801	10'RT	3	OUTLET, ALIGN ANODE BED PARALLEL TO 18"/30" OUTLET PIPE, 1 CT POST TO PIPE.
SALEM WOODLAND HILLS DRIVE NORTH OUTLET	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST EAST SIDE OF VAULT ON NORTH OUTLET. 1 CT POST TO PIPE.
SALEM 250 WEST NORTH INLET	N/A	N/A	2642-801	LT	3	TIE ANODES TO EXISTING CT STA WEST SIDE OF VAULT AT FO BOX. ALIGN ANODE BED PARALLEL TO SOUTH WORK LIMITS FENCE. 1 CT EXISTING POST TO PIPE.
SALEM 250 WEST SOUTH INLET	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST ON SOUTH SIDE OF VAULT. 1 CT POST TO PIPE.
PAYSON EAST OUTLET	N/A	N/A	2642-801	10' LT	2	LOCATE CT POST ON SOUTH SIDE OF VAULT. 1 CT POST TO PIPE.
PAYSON MAIN STREET OUTLET	N/A	N/A	2642-801	10'RT	2	LOCATE CT POST EAST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 24" OUTLET PIPE, SET ANODE SPACING TO 5', 1 CT POST TO PIPE.
PAYSON MAIN STREET DISCHARGE	N/A	N/A	2642-801	10'LT	2	LOCATE CT POST ON NORTH SIDE OF VAULT. 1 CT POST TO PIPE.
PAYSON SOUTH INLET 7+43	N/A	N/A	2642-801	10'LT	7	LOCATE CT POST NORTH SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 20" INLET PIPE, 1 CT POST TO PIPE.
PAYSON SOUTH OUTLET	N/A	N/A	2642-801	10'LT	2	LOCATED CT POST SOUTH SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 12" OUTLET PIPE, 1 CT POST TO PIPE.
SANTAQUIN NORTH OUTLET	N/A	N/A	2642-801	10'RT	3	LOCATE CT POST WEST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 12" OUTLET PIPE, 1 CT POST TO PIPE.
SANTAQUIN SOUTH TURNOUT 36" HEADER	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST ON SOUTH EAST CORNER OF VAULT. 1 CT POST TO PIPE.
SANTAQUIN SOUTH TURNOUT 20" POND STRUCTURE	N/A	N/A	2642-801	10'LT	2	LOCATE CT POST ON SOUTH WEST CORNER POND INLET STRUCTURE. 1 CT POST TO PIPE.
SANTAQUIN SOUTH 48" DRAIN 1+05	N/A	N/A	2642-801	10'RT	7	LOCATE CT POST WEST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 48" DRAIN PIPE, 1 CT POST TO PIPE.
SANTAQUIN SOUTH 48" DRAIN POND OUTLET 2+66	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST EAST SIDE OF STRUCTURE, 1 CT POST TO PIPE.
SANTAQUIN SOUTH 48" DRAIN CREEK OUTLET 5+45	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST SOUTH SIDE OF STRUCTURE. 1 CT POST TO PIPE
SANTAQUIN SOUTH 18" 10+12	N/A	N/A	2642-801	10'RT	3	LOCATE CT POST WEST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 18" OUTLET PIPE, 1 CT POST TO PIPE.
SANTAQUIN SOUTH 18" 15+45	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST AT END OF 18" POE. 1 CT POST TO PIPE.
SANTAQUIN SOUTH 36"/42" 10+10	N/A	N/A	2642-801	10'LT	7	LOCATE CT POST WEST SIDE OF VAULT. ALIGN ANODE BED PARALLEL TO 42" OUTLET PIPE, 1 CT POST TO PIPE.
SANTAQUIN SOUTH 42" 15+41	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST AT 42" PI. 1 CT POST TO PIPE.
SANTAQUIN SOUTH 42" 19+95	N/A	N/A	2642-801	N/A	N/A	LOCATE CT POST OUTSIDE OF PRECAST CONCRETE MH. 1 CT POST TO PIPE.



DSGN	J HANSEN
DR	R PHILLIPS
CHK	A SMITH
APVD	A SMITH

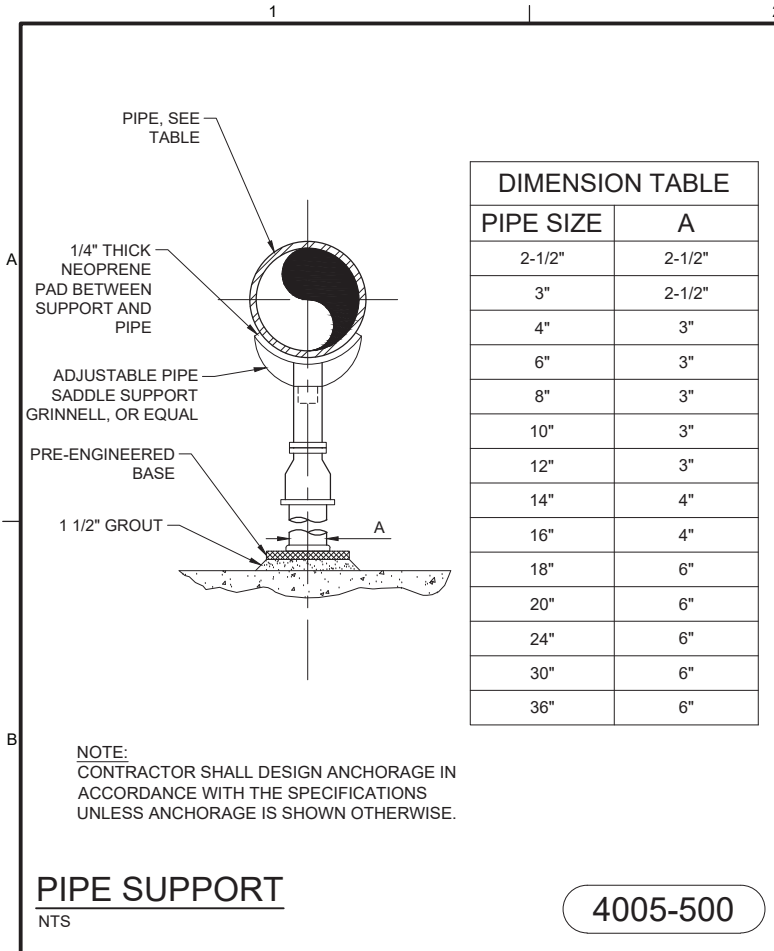
NO.	DATE	REVISION	BY	APVD

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SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

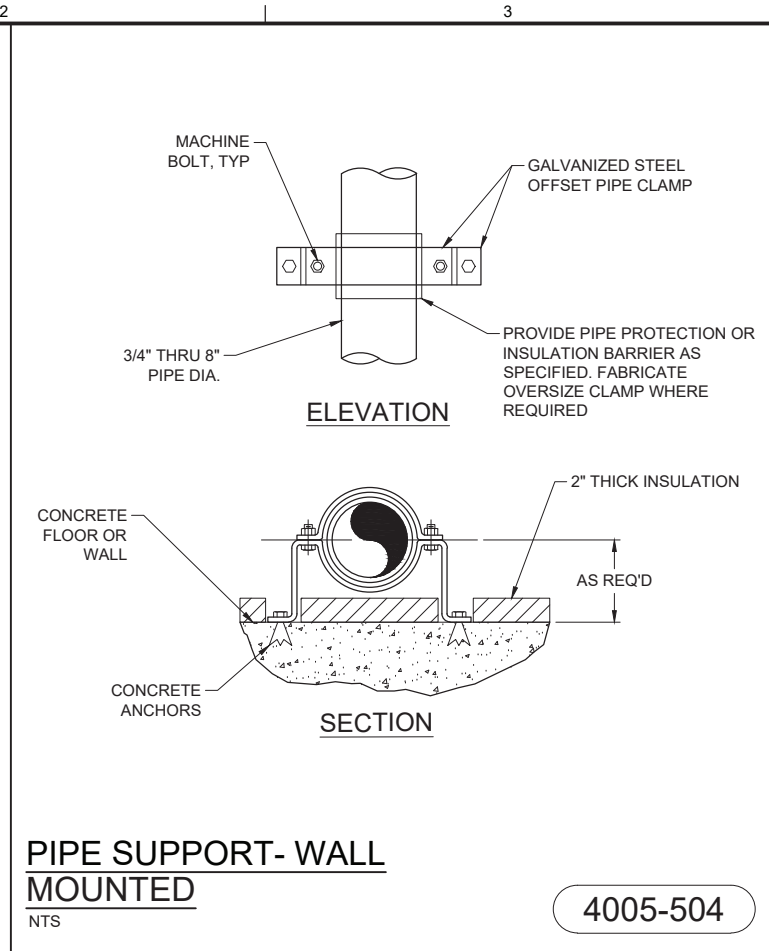
SHEET	XX OF XX
DWG	SD-29
DATE	OCTOBER 2023
CONTRACT	C-2023-01



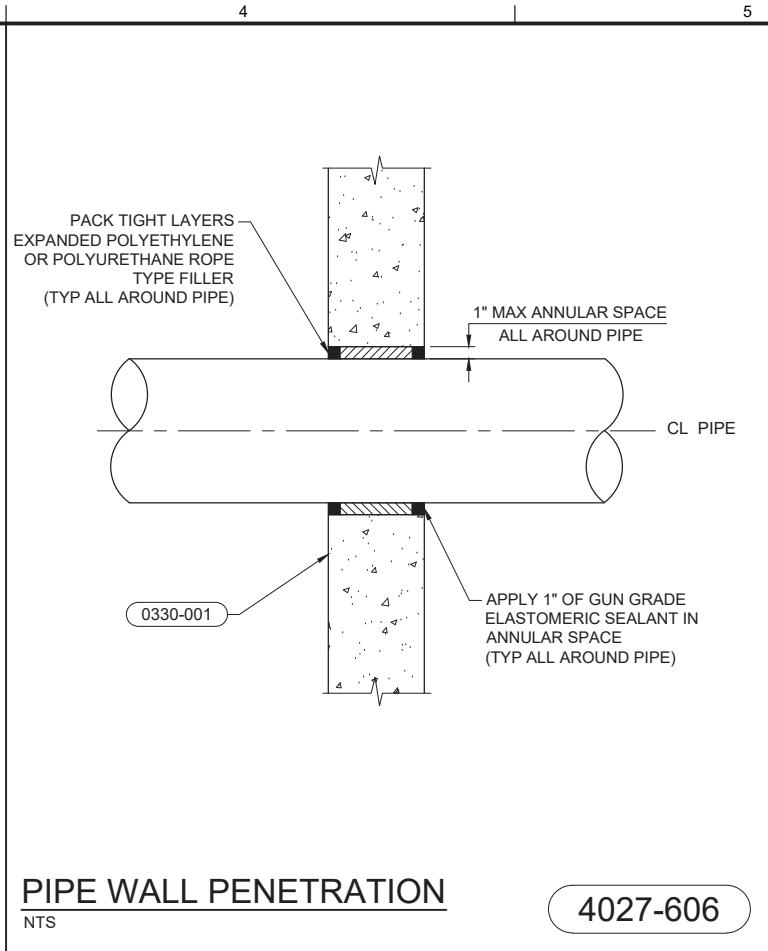
DIMENSION TABLE	
PIPE SIZE	A
2-1/2"	2-1/2"
3"	2-1/2"
4"	3"
6"	3"
8"	3"
10"	3"
12"	3"
14"	4"
16"	4"
18"	6"
20"	6"
24"	6"
30"	6"
36"	6"

NOTE:
CONTRACTOR SHALL DESIGN ANCHORAGE IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS ANCHORAGE IS SHOWN OTHERWISE.

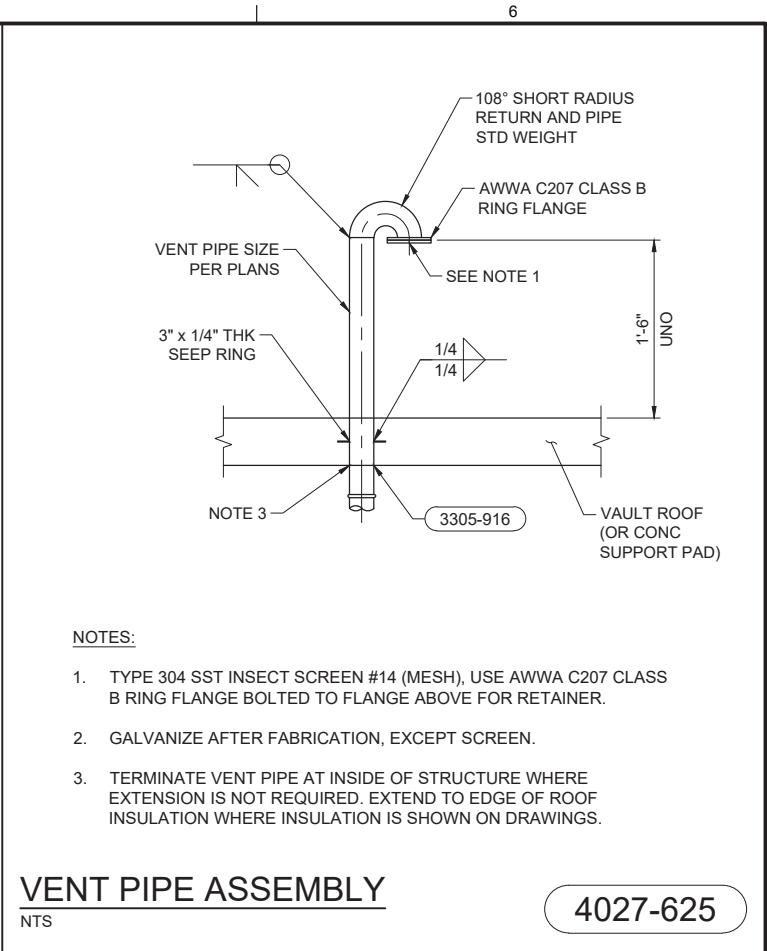
PIPE SUPPORT
NTS 4005-500



PIPE SUPPORT- WALL MOUNTED
NTS 4005-504

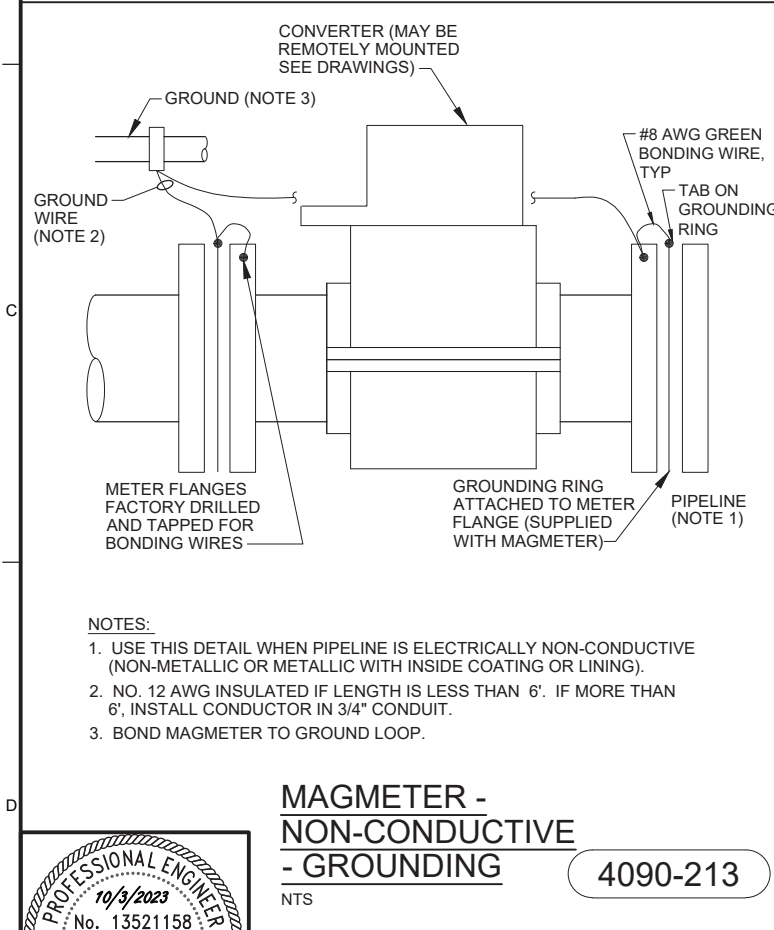


PIPE WALL PENETRATION
NTS 4027-606



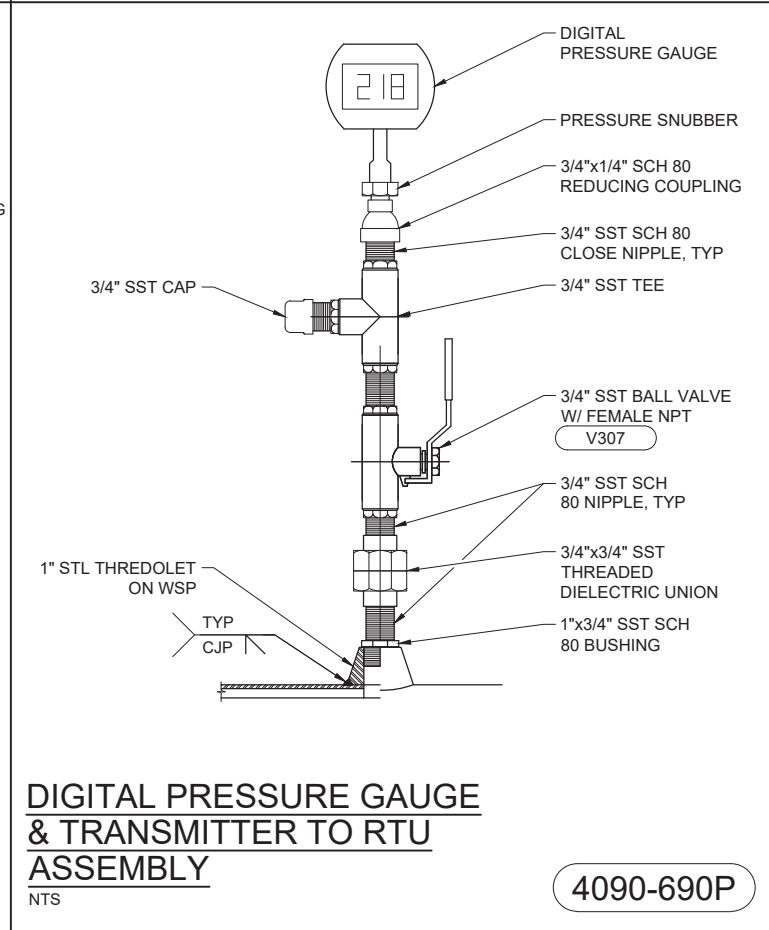
VENT PIPE ASSEMBLY
NTS 4027-625

NOTES:
1. TYPE 304 SST INSECT SCREEN #14 (MESH), USE AWWA C207 CLASS B RING FLANGE BOLTED TO FLANGE ABOVE FOR RETAINER.
2. GALVANIZE AFTER FABRICATION, EXCEPT SCREEN.
3. TERMINATE VENT PIPE AT INSIDE OF STRUCTURE WHERE EXTENSION IS NOT REQUIRED. EXTEND TO EDGE OF ROOF INSULATION WHERE INSULATION IS SHOWN ON DRAWINGS.

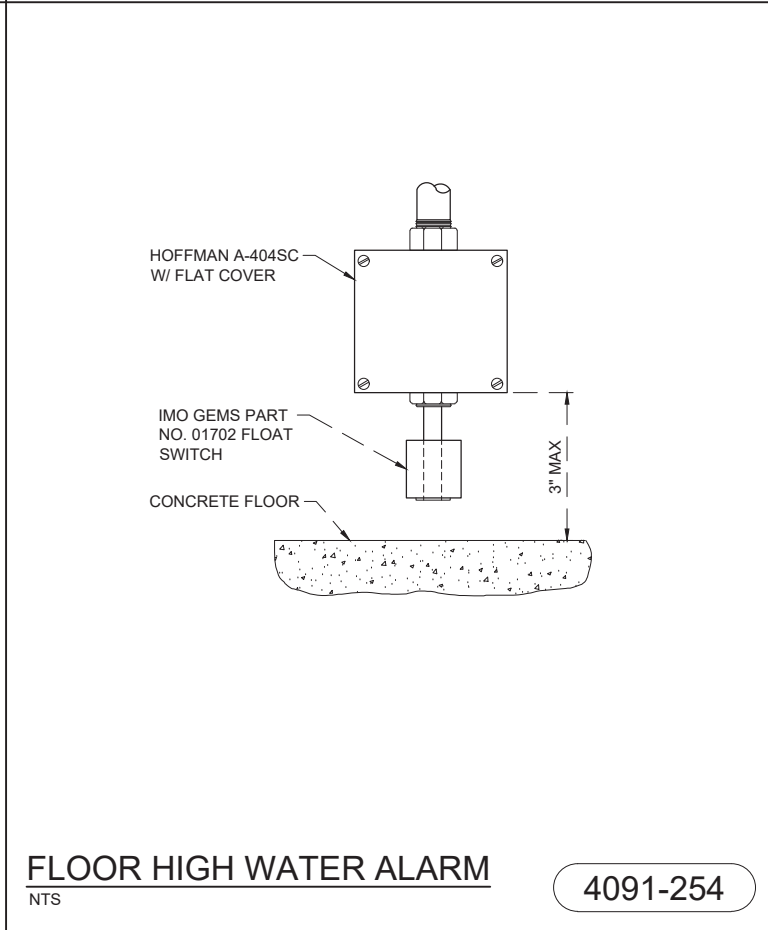


NOTES:
1. USE THIS DETAIL WHEN PIPELINE IS ELECTRICALLY NON-CONDUCTIVE (NON-METALLIC OR METALLIC WITH INSIDE COATING OR LINING).
2. NO. 12 AWG INSULATED IF LENGTH IS LESS THAN 6'. IF MORE THAN 6', INSTALL CONDUCTOR IN 3/4\"/>

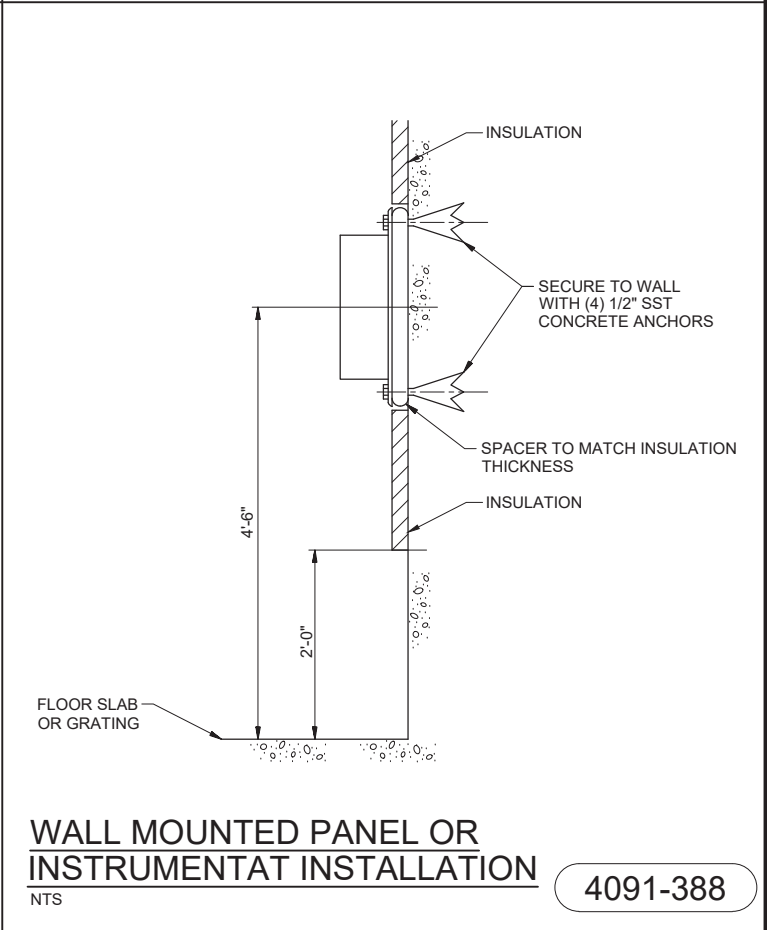
MAGMETER - NON-CONDUCTIVE - GROUNDING
NTS 4090-213



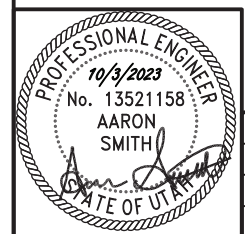
DIGITAL PRESSURE GAUGE & TRANSMITTER TO RTU ASSEMBLY
NTS 4090-690P



FLOOR HIGH WATER ALARM
NTS 4091-254



WALL MOUNTED PANEL OR INSTRUMENTATION INSTALLATION
NTS 4091-388



DSGN	J HANSEN						
DR	R PHILLIPS						
CHK	A SMITH						
APVD	A SMITH	NO.	DATE	REVISION	BY	APVD	

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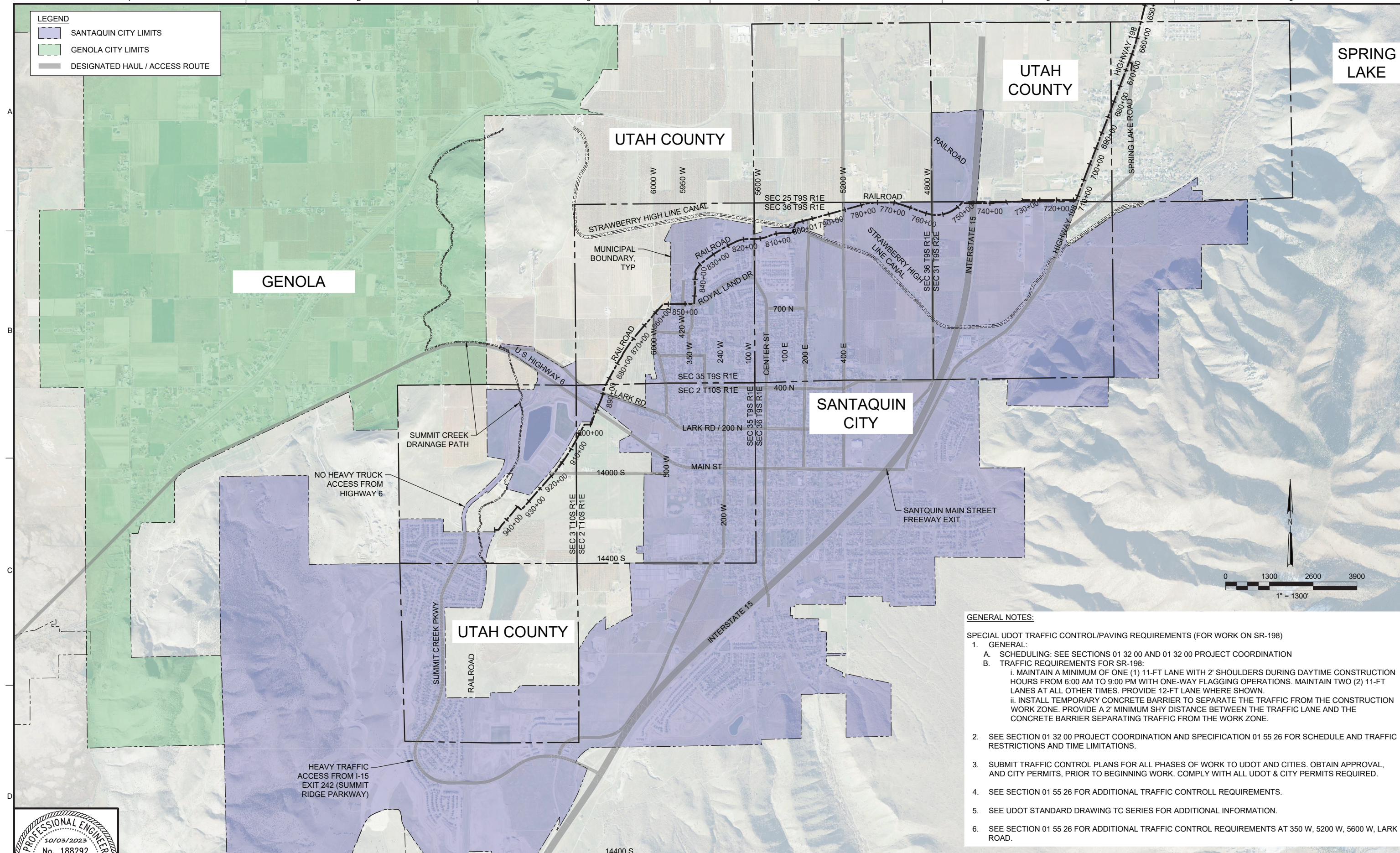


SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

STANDARD DETAILS	
SHEET	XX OF XX
DWG	SD-45
DATE	OCTOBER 2023
CONTRACT	C-2023-01

LEGEND

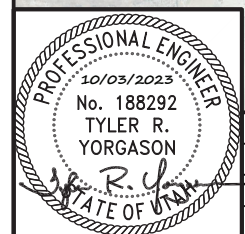
- SANTAQUIN CITY LIMITS
- GENOLA CITY LIMITS
- DESIGNATED HAUL / ACCESS ROUTE



GENERAL NOTES:

SPECIAL UDOT TRAFFIC CONTROL/PAVING REQUIREMENTS (FOR WORK ON SR-198)

1. GENERAL:
 - A. SCHEDULING: SEE SECTIONS 01 32 00 AND 01 32 00 PROJECT COORDINATION
 - B. TRAFFIC REQUIREMENTS FOR SR-198:
 - i. MAINTAIN A MINIMUM OF ONE (1) 11-FT LANE WITH 2' SHOULDERS DURING DAYTIME CONSTRUCTION HOURS FROM 6:00 AM TO 9:00 PM WITH ONE-WAY FLAGGING OPERATIONS. MAINTAIN TWO (2) 11-FT LANES AT ALL OTHER TIMES. PROVIDE 12-FT LANE WHERE SHOWN.
 - ii. INSTALL TEMPORARY CONCRETE BARRIER TO SEPARATE THE TRAFFIC FROM THE CONSTRUCTION WORK ZONE. PROVIDE A 2' MINIMUM SHY DISTANCE BETWEEN THE TRAFFIC LANE AND THE CONCRETE BARRIER SEPARATING TRAFFIC FROM THE WORK ZONE.
2. SEE SECTION 01 32 00 PROJECT COORDINATION AND SPECIFICATION 01 55 26 FOR SCHEDULE AND TRAFFIC RESTRICTIONS AND TIME LIMITATIONS.
3. SUBMIT TRAFFIC CONTROL PLANS FOR ALL PHASES OF WORK TO UDOT AND CITIES. OBTAIN APPROVAL, AND CITY PERMITS, PRIOR TO BEGINNING WORK. COMPLY WITH ALL UDOT & CITY PERMITS REQUIRED.
4. SEE SECTION 01 55 26 FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
5. SEE UDOT STANDARD DRAWING TC SERIES FOR ADDITIONAL INFORMATION.
6. SEE SECTION 01 55 26 FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS AT 350 W, 5200 W, 5600 W, LARK ROAD.



DSGN	J BIERNACKA						
DR	R PHILLIPS						
CHK	B DRAPER						
APVD	T YORGASON	NO.	DATE	REVISION	BY	APVD	

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SPANISH FORK SANTAQUIN PIPELINE
SANTAQUIN REACH

SHEET	XX OF XX
DWG	TC-1
DATE	OCTOBER 2023
CONTRACT	C-2023-01