



Jordan Valley Water Conservancy District

8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300

6000 WEST 4700 SOUTH VAULT MODIFICATIONS

PROJECT NUMBER: 4135

OCTOBER 2019



Know what's below.
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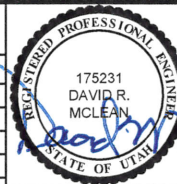
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.



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LINE IS 1 INCH
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DRAWING:	KEVIN RUBOW
PROJ. MGR:	KEVIN RUBOW
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6000 WEST 4700 SOUTH VAULT MODIFICATIONS

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SCALE:	SCALE
DATE:	10/7/19
PROJECT NUMBER:	4135
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THE CONTRACTOR SHALL CAREFULLY READ ALL OF THE NOTES AND SPECIFICATION, THE CONTRACTOR SHALL ACCEPT THE TRUE MEANING AND BE RESPONSIBLE FOR COMPLYING WITH EACH.

GENERAL NOTES:

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS INCLUDED AS PART OF THE CONTRACT DOCUMENTS.
- IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL NECESSARY AND PROPER LABOR AND MATERIALS NECESSARY FOR THE WORK CONTEMPLATED AND THAT THE WORK BE IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATION. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
- WHERE THE PLANS OR SPECIFICATION DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHEST QUALITY ARE TO BE USED.
- THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR; IT SHALL BE EXPECTED THAT PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL MATERIALS NECESSARY AND PROPER LABOR FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF-WAYS, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT OF THE BID.
- CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY THEMSELVES BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS THEY MAY PREFER, OF THE LOCATION OF THE PROPOSED WORK, AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF THEIR

- EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO THEM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, THEY SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING THEIR BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, THEY HAVE REVIEWED AND ARE RELYING ON THEIR OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON THEIR OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE OWNER OR THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT THEY HAVE NOT RELIED SOLELY UPON OWNER OR ENGINEER FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND ENGINEER.
 - THE CONTRACTOR AGREES THAT:
 - THEY WILL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK.
 - THEY WILL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
 - THEY WILL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER.
 - THEY WILL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL PAYMENT.
 - THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND RE-INSPECTION AT THEIR OWN EXPENSE.
 - THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING

- EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
 - THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION, DIMENSION, AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, MODIFICATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
 - WORK IN ANY EASEMENT AND/OR RIGHT-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID EASEMENT AND/OR RIGHT-OF-WAY.
 - UPON SUBSTANTIAL COMPLETION OF WORK, THE CONTRACTOR SHALL BROOM SWEEP EACH SITE PRIOR TO CALLING FOR INSPECTION.
 - JVWCD STAFF WILL SERVE AS ENGINEER ON THIS PROJECT.
 - THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND NATIONAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 - ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, AND OTHER DEVICES/ACCESSORIES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

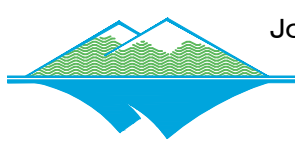
UNDERGROUND UTILITIES:

- THE INFORMATION SHOWN ON THE PLANS WITH REGARD TO THE EXISTING UTILITIES AND/OR IMPROVEMENTS, WAS DERIVED FROM FIELD INVESTIGATIONS AND/OR RECORD INFORMATION. THE ENGINEER DOES NOT GUARANTEE THESE LOCATIONS TO BE EITHER TRUE OR EXACT. PRIOR TO CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC. AND SHALL NOTIFY THE ENGINEER IN WRITING FORTY-EIGHT (48) HOURS IN ADVANCE OF EXPOSING THE UTILITIES, SO THAT THE EXACT LOCATION AND ELEVATION CAN BE VERIFIED AND DOCUMENTED. THE COST ASSOCIATED TO PERFORM THIS WORK SHALL BE INCLUDED IN EITHER THE LUMP SUM CLEARING COST OR IN THE VARIOUS ITEMS OF WORK. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION/ELEVATION MUST BE MADE PRIOR TO BEGINNING CONSTRUCTION.
- PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT PHONE NUMBER 811 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED. THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
- PRIOR TO OPENING AN EXCAVATION, CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

SURFACE IMPROVEMENTS:

- PAVEMENT, SIDEWALK AND SURFACE IMPROVEMENTS, AND LANDSCAPE DISTURBED DURING THIS WORK SHALL BE REPLACED AS PART OF THE WORK. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
- ASPHALT CUTTING AND PATCHING SHALL CONFORM TO APWA PLAN 255. CONTRACTOR SHALL INSTALL 2- FOOT T-PATCH (4-INCH MINIMUM THICKNESS). PG58-28 WITH 15% RAP OR BETTER. CRACK SEAL ALL JOINTS. MILL & FILL NOT REQUIRED.

REVISIONS					
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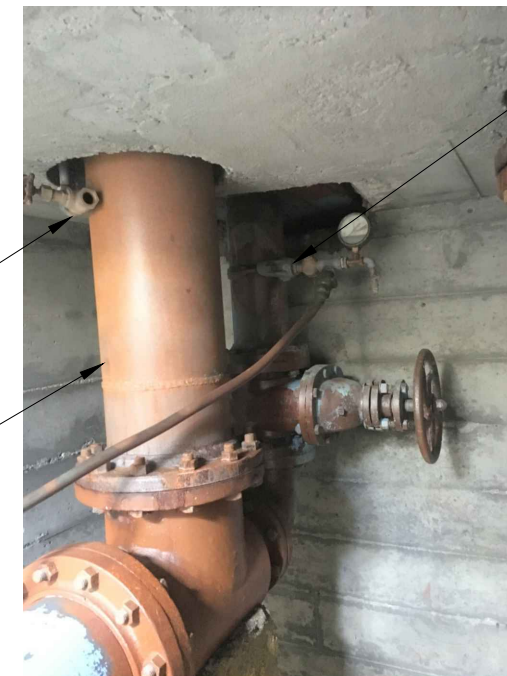
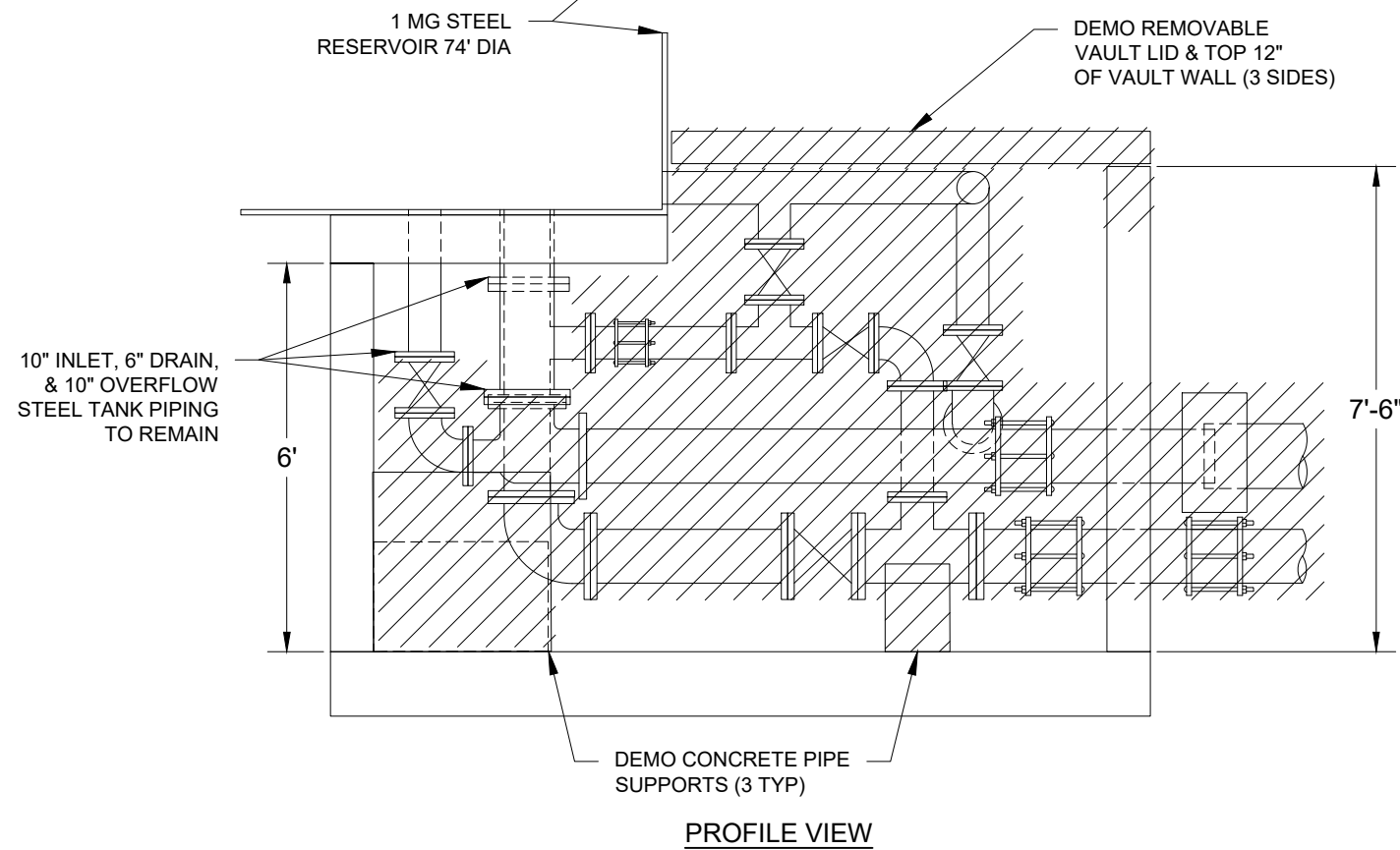
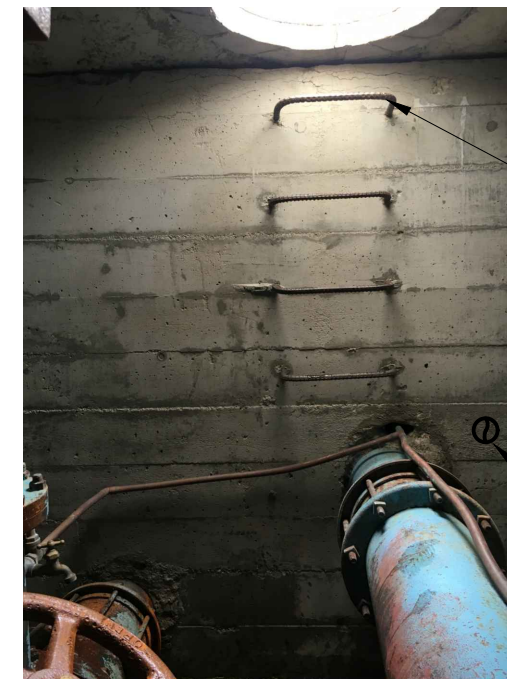
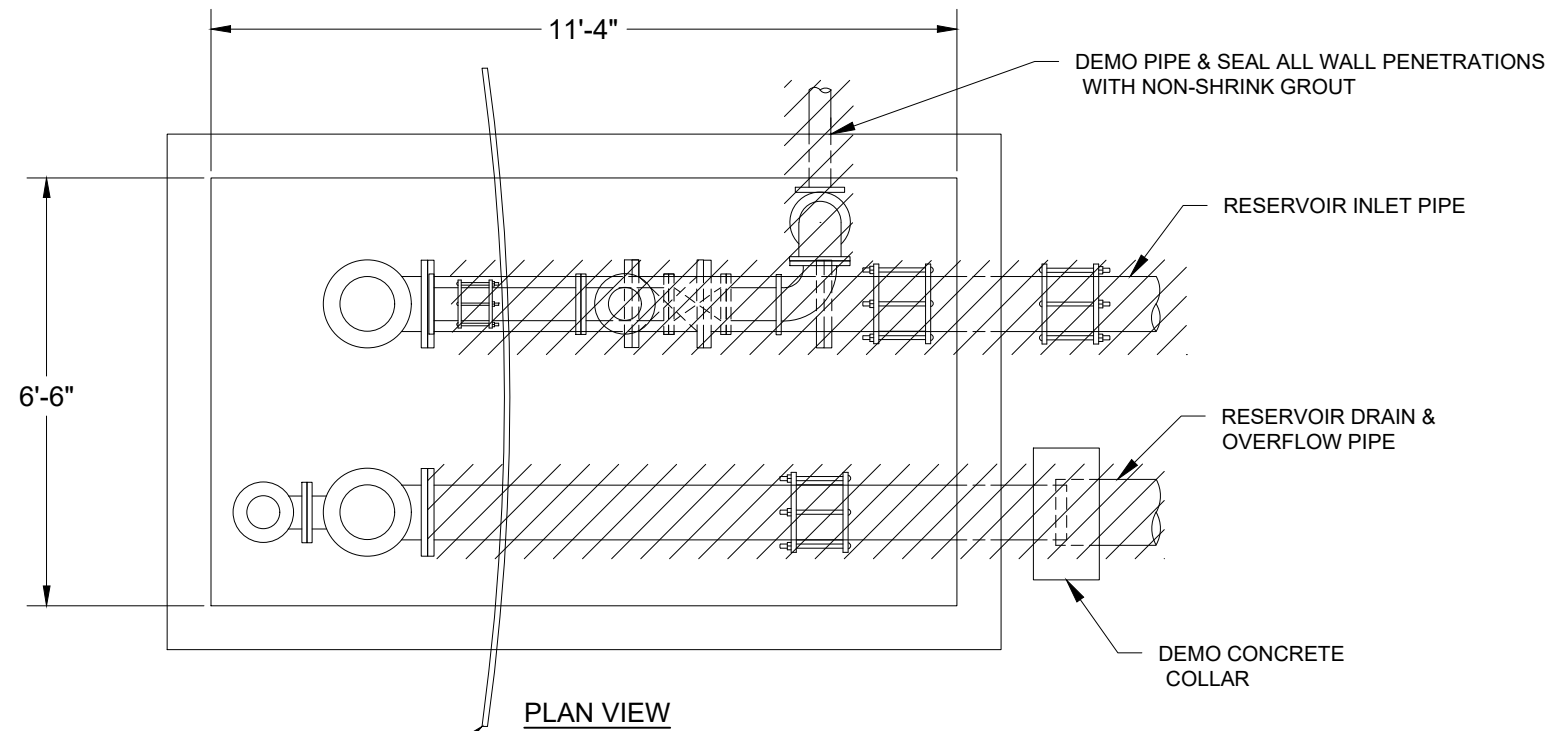


6000 WEST 4700 SOUTH VAULT MODIFICATIONS

GENERAL NOTES

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SHEET NUMBER
2 OF 8



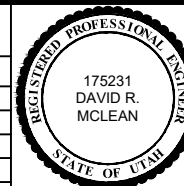


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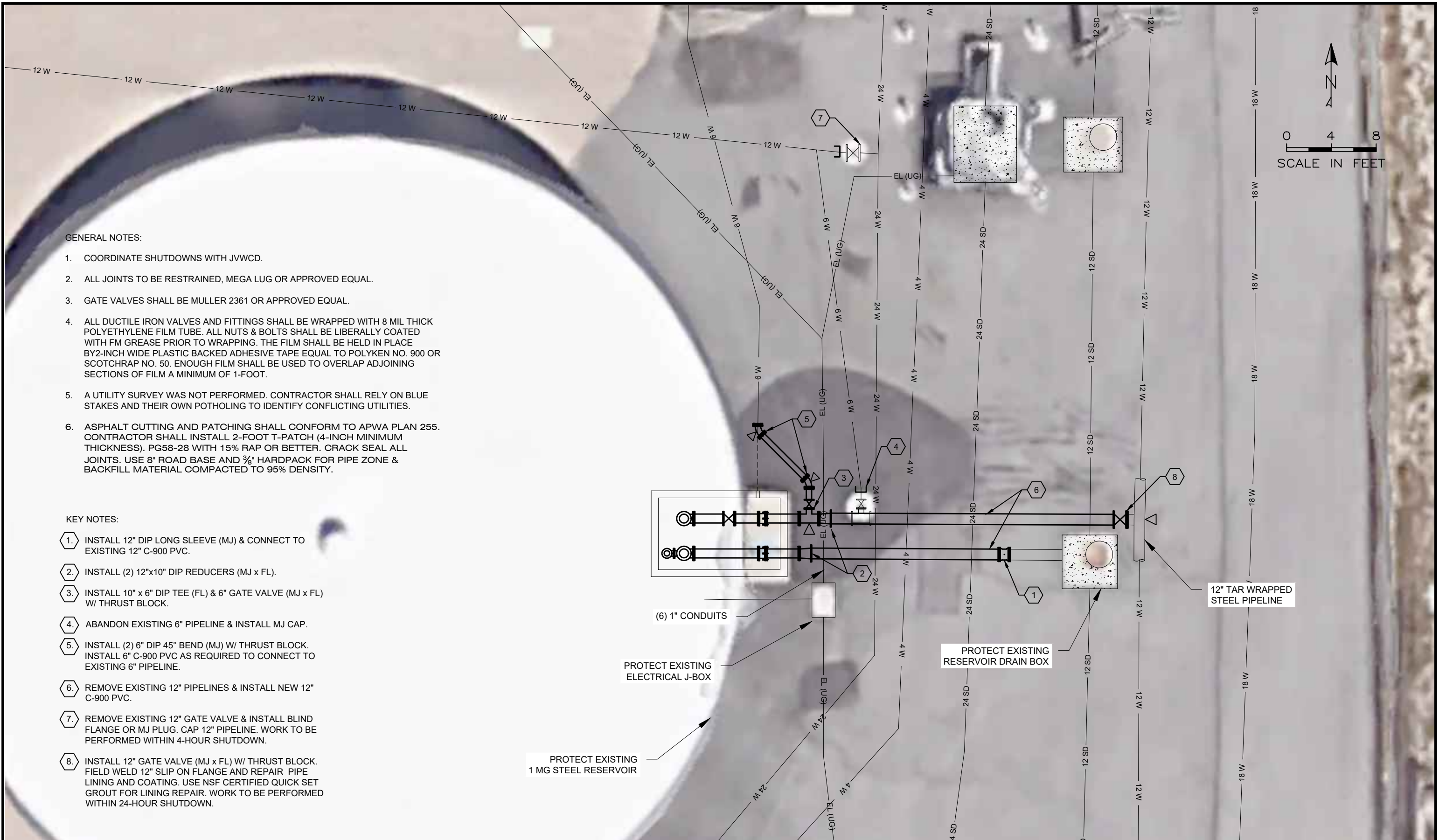


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DEMOLITION PLAN

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PROJECT NUMBER
4135
DRAWING NUMBER
3
SHEET NUMBER
3 OF 8



GENERAL NOTES:

1. COORDINATE SHUTDOWNS WITH JVWCD.
2. ALL JOINTS TO BE RESTRAINED, MEGA LUG OR APPROVED EQUAL.
3. GATE VALVES SHALL BE MULLER 2361 OR APPROVED EQUAL.
4. ALL DUCTILE IRON VALVES AND FITTINGS SHALL BE WRAPPED WITH 8 MIL THICK POLYETHYLENE FILM TUBE. ALL NUTS & BOLTS SHALL BE LIBERALLY COATED WITH FM GREASE PRIOR TO WRAPPING. THE FILM SHALL BE HELD IN PLACE BY 2-INCH WIDE PLASTIC BACKED ADHESIVE TAPE EQUAL TO POLYKEN NO. 900 OR SCOTCHRAP NO. 50. ENOUGH FILM SHALL BE USED TO OVERLAP ADJOINING SECTIONS OF FILM A MINIMUM OF 1-FOOT.
5. A UTILITY SURVEY WAS NOT PERFORMED. CONTRACTOR SHALL RELY ON BLUE STAKES AND THEIR OWN POTHOLES TO IDENTIFY CONFLICTING UTILITIES.
6. ASPHALT CUTTING AND PATCHING SHALL CONFORM TO APWA PLAN 255. CONTRACTOR SHALL INSTALL 2-FOOT T-PATCH (4-INCH MINIMUM THICKNESS), PG58-28 WITH 15% RAP OR BETTER. CRACK SEAL ALL JOINTS. USE 8" ROAD BASE AND 3/8" HARDPACK FOR PIPE ZONE & BACKFILL MATERIAL COMPACTED TO 95% DENSITY.

KEY NOTES:

1. INSTALL 12" DIP LONG SLEEVE (MJ) & CONNECT TO EXISTING 12" C-900 PVC.
2. INSTALL (2) 12"x10" DIP REDUCERS (MJ x FL).
3. INSTALL 10" x 6" DIP TEE (FL) & 6" GATE VALVE (MJ x FL) W/ THRUST BLOCK.
4. ABANDON EXISTING 6" PIPELINE & INSTALL MJ CAP.
5. INSTALL (2) 6" DIP 45° BEND (MJ) W/ THRUST BLOCK. INSTALL 6" C-900 PVC AS REQUIRED TO CONNECT TO EXISTING 6" PIPELINE.
6. REMOVE EXISTING 12" PIPELINES & INSTALL NEW 12" C-900 PVC.
7. REMOVE EXISTING 12" GATE VALVE & INSTALL BLIND FLANGE OR MJ PLUG. CAP 12" PIPELINE. WORK TO BE PERFORMED WITHIN 4-HOUR SHUTDOWN.
8. INSTALL 12" GATE VALVE (MJ x FL) W/ THRUST BLOCK. FIELD WELD 12" SLIP ON FLANGE AND REPAIR PIPE LINING AND COATING. USE NSF CERTIFIED QUICK SET GROUT FOR LINING REPAIR. WORK TO BE PERFORMED WITHIN 24-HOUR SHUTDOWN.

(6) 1" CONDUITS
 PROTECT EXISTING ELECTRICAL J-BOX
 PROTECT EXISTING 1 MG STEEL RESERVOIR

PROTECT EXISTING RESERVOIR DRAIN BOX

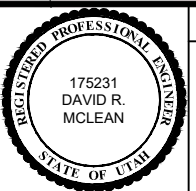
12" TAR WRAPPED STEEL PIPELINE

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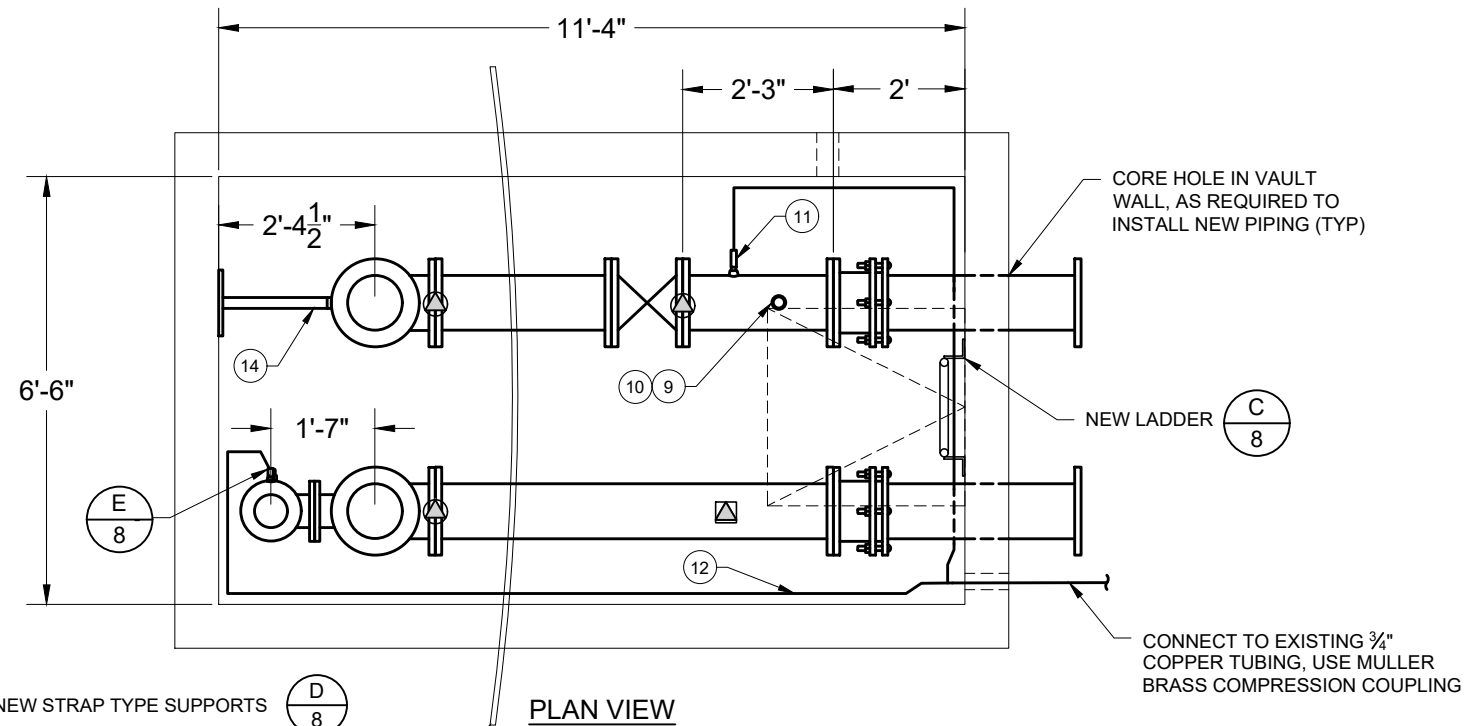
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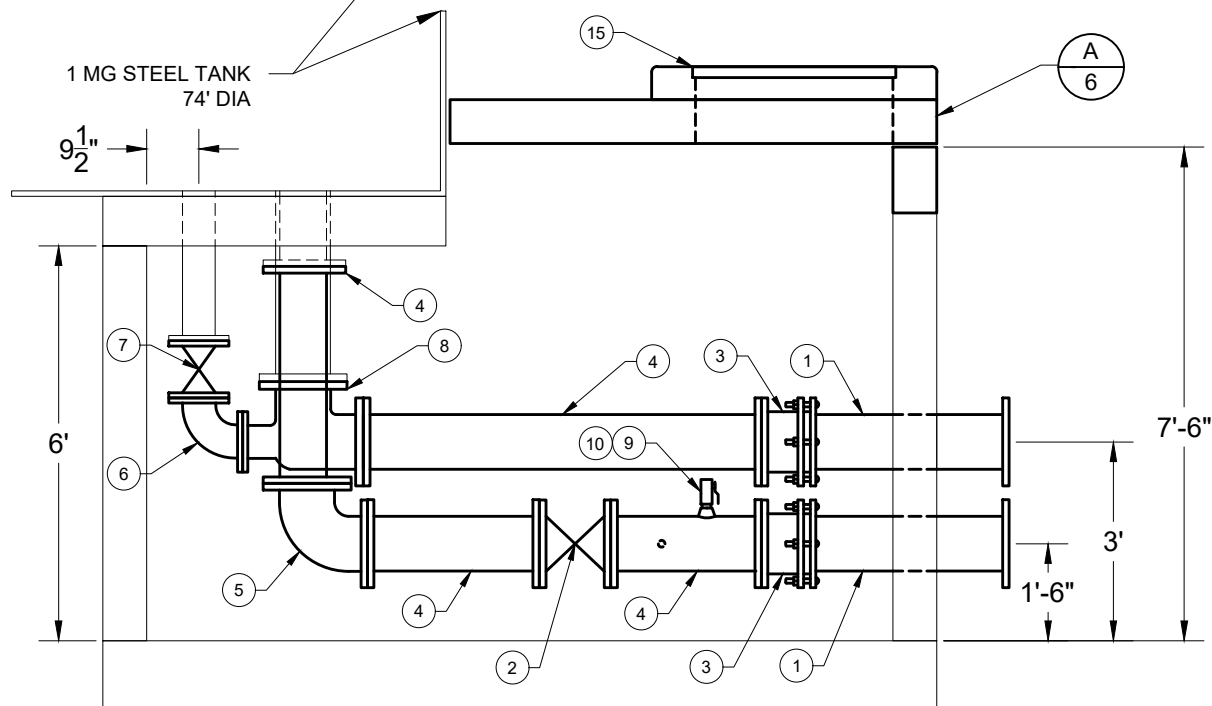
YARD PIPING MODIFICATIONS

SCALE: SHOWN
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PLAN VIEW

- = NEW STRAP TYPE SUPPORTS (D/8)
- = NEW FLANGE TYPE SUPPORTS (D/8)



PROFILE VIEW

VALVE & FITTING SCHEDULE				
NO.	DESCRIPTION	SIZE	JOINT	NOTES
1	SPOOL	10"	FLG x PE	
2	GATE VALVE (W/ HAND WHEEL)	10"	FLG	MULLER 2361 OR APPROVED EQUAL
3	RESTRAINED FLANGED COUPLING ADAPTER	10"	FLG x PE	SMITH-BLAIR 911 OR APPROVED EQUAL
4	SPOOL	10"	FLG	
5	90° BEND	10"	FLG	
6	90° BEND	6"	FLG	
7	GATE VALVE (W/ HAND WHEEL)	6"	FLG	MULLER 2361 OR APPROVED EQUAL
8	REDUCING TEE	10" x 6" x 10"	FLG	
9	THREADED OUTLET	2"	FPT	
10	BALL VALVE, SCH 80 NIPPLE, CAMLOCK ADAPTER COUPLING (TYPE F) WITH CAP	2"	FPT	STAINLESS STEEL
11	1" THREADED OUTLET, 1" x 3/4" BUSHING, 3/4" CORP STOP	1" x 3/4"	FPT	STEEL OUTLET, BRASS FITTINGS
12	COPPER TUBING (TYPE K)	3/4"	--	LENGTH AS REQUIRED
13	VERTICAL PIPE SUPPORT	--	--	SEE PLAN FOR TYPE AND LOCATION
14	HORIZONTAL PIPE SUPPORT	--	FLG	FLANGE TYPE SUPPORT
15	36" SIDEWALK HATCH W/ DRAIN AND CONCRETE CURB	36"	--	EJ ALUMINUM HATCH W/ RECESSED PADLOCK CLIP (H36361633) OR APPROVED EQUAL

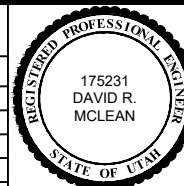
NOTES:

1. COORDINATE SHUTDOWNS WITH JWCD.
2. FIELD VERIFY DIMENSIONS FOR ALL VALVES, SPOOLS, FITTINGS, & THRUST RESTRAINTS. VAULT PIPE AND FITTINGS TO BE STD WALL STEEL, EPOXY LINED & COATED. EPOXY LINING TO HAVE NSF CERTIFICATION, 3 COATS OF EPOXY WITH 3 MILS DFT PER COAT.
3. STEEL PIPE TO BE ASTM A53 GRADE B, STD WALL. ALL PIPE INSIDIE OF VAULT TO BE STEEL UNLESS NOTED OTHERWISE.
4. SAND BLAST AND PAINT EXISTING TANK PIPING. APPLY EPOXY COATING TO VAULT PIPING CONFORMING TO AWWA C210, MINIMUM 16 MILS DFT. EPOXY COATING SHALL BE AMERLOCK 2 WITH AMERON DIMETCOTE 302H ZINC PRIMER, OR APPROVED EQUAL. COLOR "JWCD BLUE". FIELD APPLY TOP COAT TO BOLTS (HEAD & TAIL), NUTS, AND VALVES TO MATCH PIPING.
5. CLEAN, PRESSURE TEST, DISINFECT ALL NEW PIPING. COORDINATE PRESSURE TESTING WITH JWCD.
6. REMOVE EXISTING CONCRETE PIPE SUPPORTS AND INSTALL NEW ANVIL SUPPORTS TO MATCH NEW VALVES AND PIPING. INSTALL NEW STEEL HORIZONTAL PIPE SUPPORT.
7. SUPPORT COPPER TUBING ON VAULT WALL WITH UNISTRUT AND UNISTRUT CUSHION CLAMPS. SUPPORTS TO BE 5' ON CENTER. ALL UNISTRUT, STRUT STRAPS, & ANCHORS SHALL BE STAINLESS STEEL.
8. SEAL ALL VAULT PENETRATIONS WITH NON-SHRINK GROUT.

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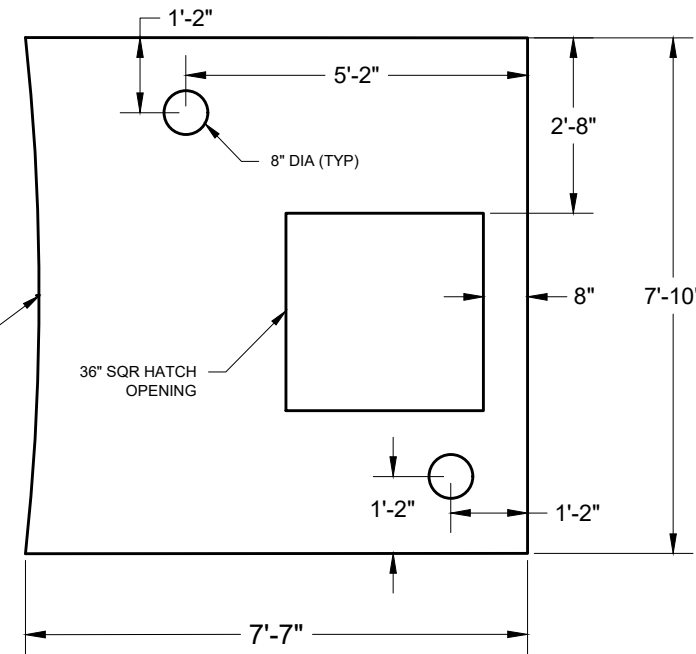
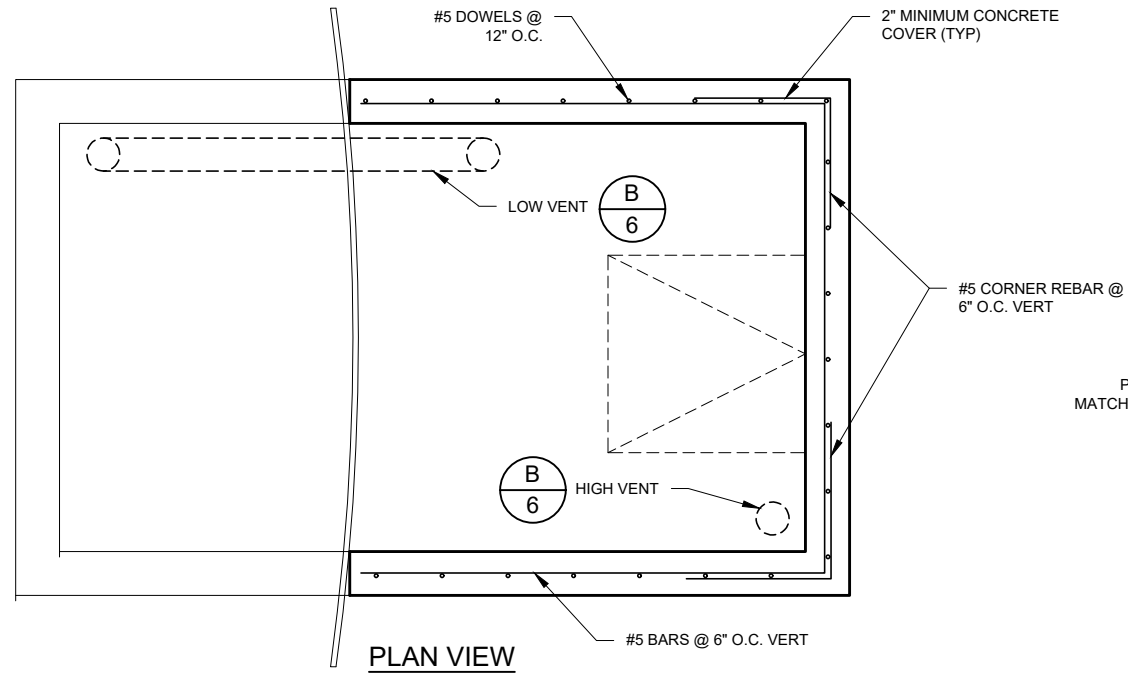


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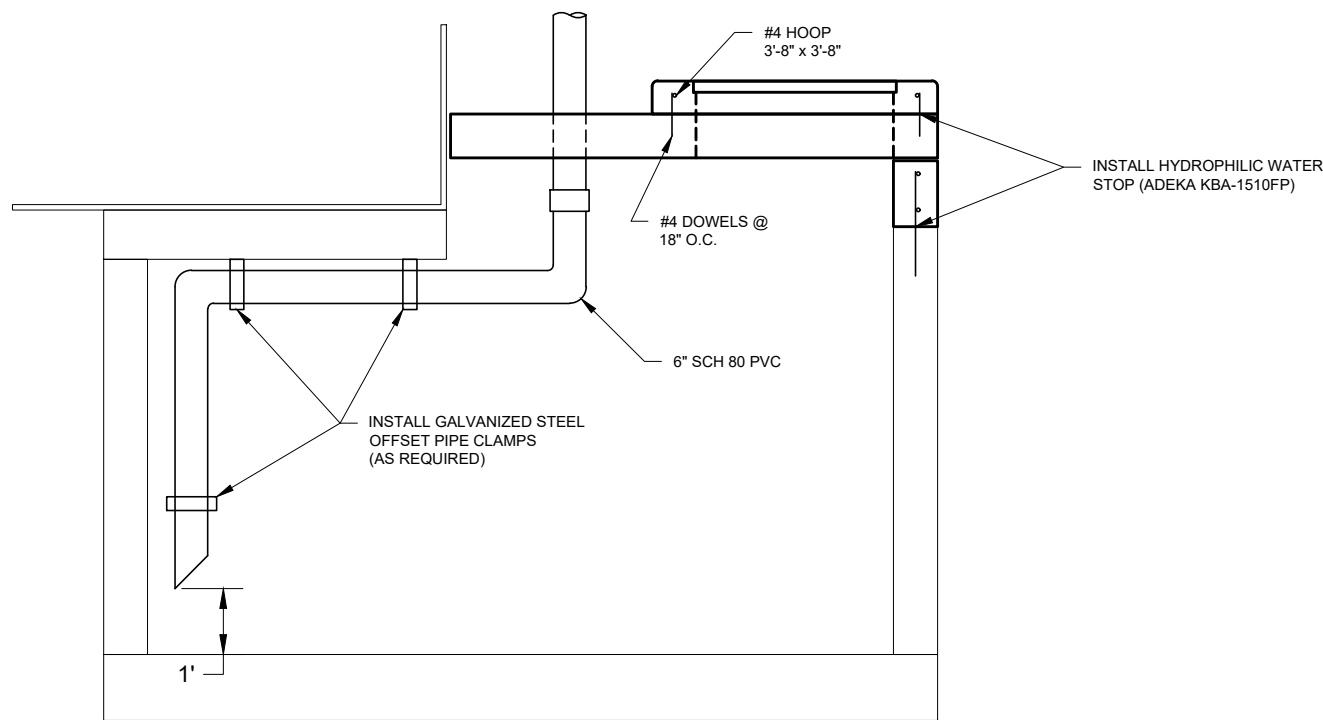
VAULT PIPING MODIFICATIONS

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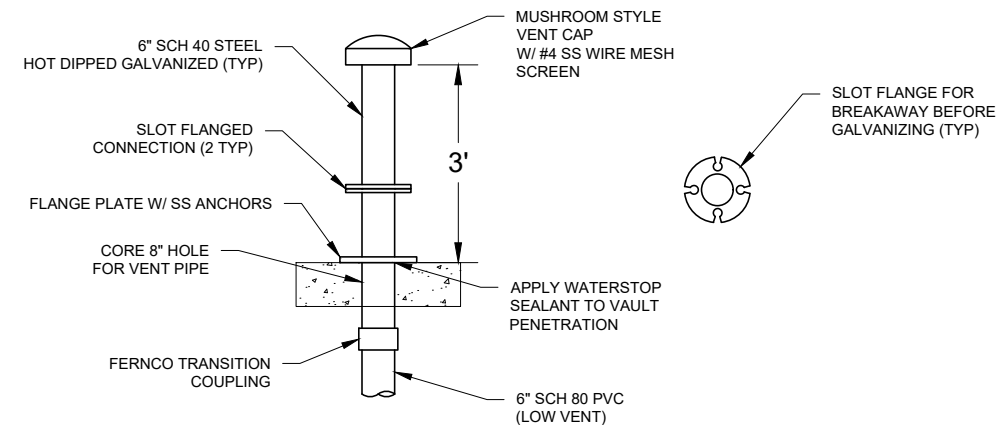
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- NOTES:
1. PRECAST REINFORCED CONCRETE VAULT LID:
 - 1.1. 8-INCH MINIMUM THICKNESS
 - 1.2. DESIGN CONFORMING TO ASTM C857 A-8, INCIDENTAL TRAFFIC LOADING.
 - 1.3. SEAL ALL JOINTS INSIDE AND OUT TO ENSURE JOINTS ARE WATERPROOF.
 - 1.4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
 - 1.5. PROVIDE FOUR RECESSED LIFTING HOOKS IN VAULT DECK AND PROVIDE ONE RECESSED LIFTING HOOK IN VAULT CEILING ABOVE GATE VALVE.
 2. TOP SECTION OF VAULT WALL IS FAILING. REMOVE APPROXIMATELY 12" OF WALL, DOWEL & EPOXY ANCHOR REBAR, AND RECAST WALL. $F_c = 4500$ PSI.
 3. INSTALL HATCH DRAIN IN CONCRETE CURB AND COVER OPENING WITH STAINLESS STEEL SCREEN.



A VAULT LID DETAIL
SCALE: NTS



B VENT DETAIL
SCALE: NTS

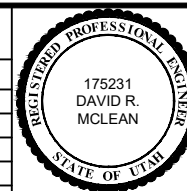
PROFILE VIEW

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

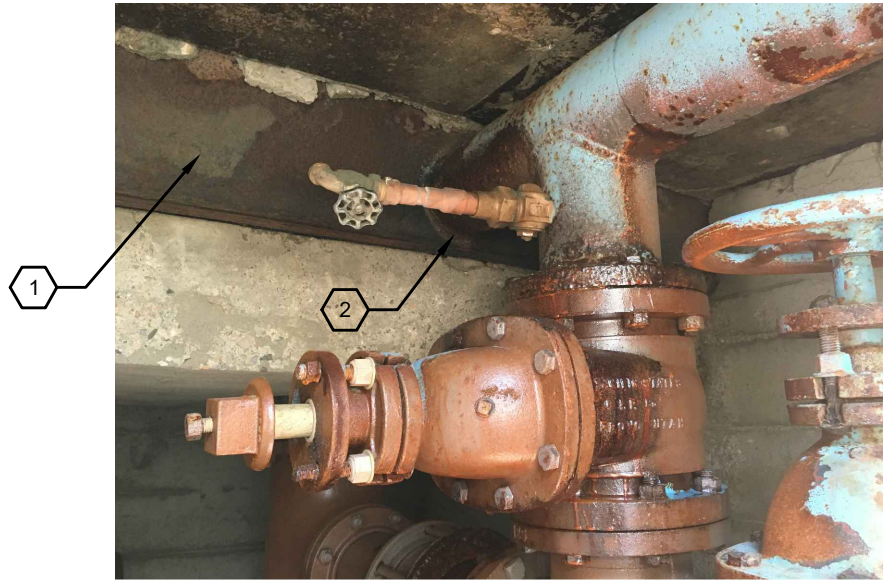
DESIGN: KEVIN RUBOW
DRAWING: KEVIN RUBOW
PROJ. MGR: KEVIN RUBOW
APPROVAL:



6000 WEST 4700 SOUTH VAULT MODIFICATIONS

VAULT IMPROVEMENTS

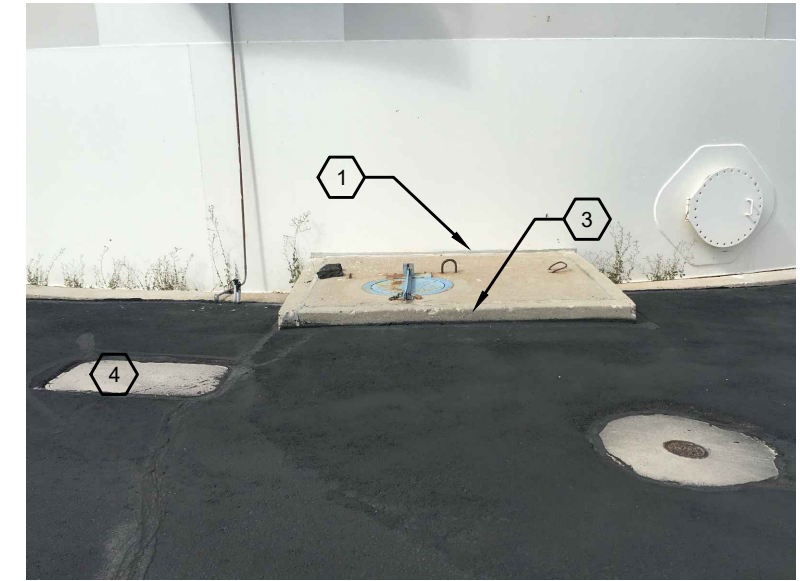
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DATE: 10/7/19
PROJECT NUMBER: 4135
DRAWING NUMBER: 6
SHEET NUMBER: 6 OF 8



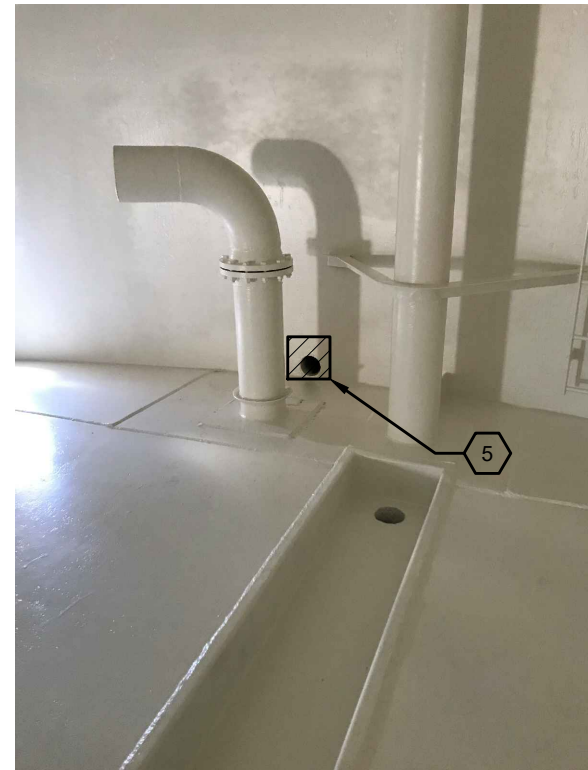
STEEL TANK WALL & 6" OUTLET PIPING



FAILING CONCRETE WALL



EXISTING VAULT LID



TANK INLET/OUTLET, OVERFLOW, & DRAIN PIPING

NOTES:

1. CONTRACTOR SHALL BLOCK OR PLUG ALL PIPE OPENINGS AND DRAINS TO PREVENT DEBRIS FROM ENTERING THE OPENINGS.
2. UPON COMPLETION OF ALL INTERIOR RESERVOIR WORK, THE CONTRACTOR SHALL CLEAN THE RESERVOIR INTERIOR OF ALL DUST AND RESIDUAL ABRASIVE MATERIAL BY PRESSURING WASHING TO THE SATISFACTION OF THE OWNER.
3. DISINFECTION OF THE RESERVOIR WILL BE PERFORMED BY OWNER.

KEY NOTES:

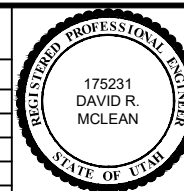
1. SANDBLAST AND PAINT AREAS OF STEEL TANK COVERED BY VAULT AS SPECIFIED IN SECTION 09 90 10.
2. REMOVE 6" PIPING. WELD CIRCULAR PLATE TO FILL OPENING. MATCH PLATE THICKNESS TO TANK WALL.
3. REMOVE EXISTING CONCRETE CURB. INSTALL NEW PRECAST VAULT LID AND REPLACE CURBING. SEAL ALL JOINTS TO ENSURE JOINTS ARE WATERPROOF.
4. PROTECT EXISTING ELECTRICAL JUNCTION BOX.
5. WELD STEEL PLATE ON TANK INTERIOR (12" x 12" x 1/2"). APPLY COATING TO TANK AS SPECIFIED IN SECTION 09 90 10.

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" INCH
AT FULL SIZE
(IF NOT 1" - SCALE ACCORDINGLY)

DESIGN:	KEVIN RUBOW
DRAWING:	KEVIN RUBOW
PROJ. MGR:	KEVIN RUBOW
APPROVAL:	



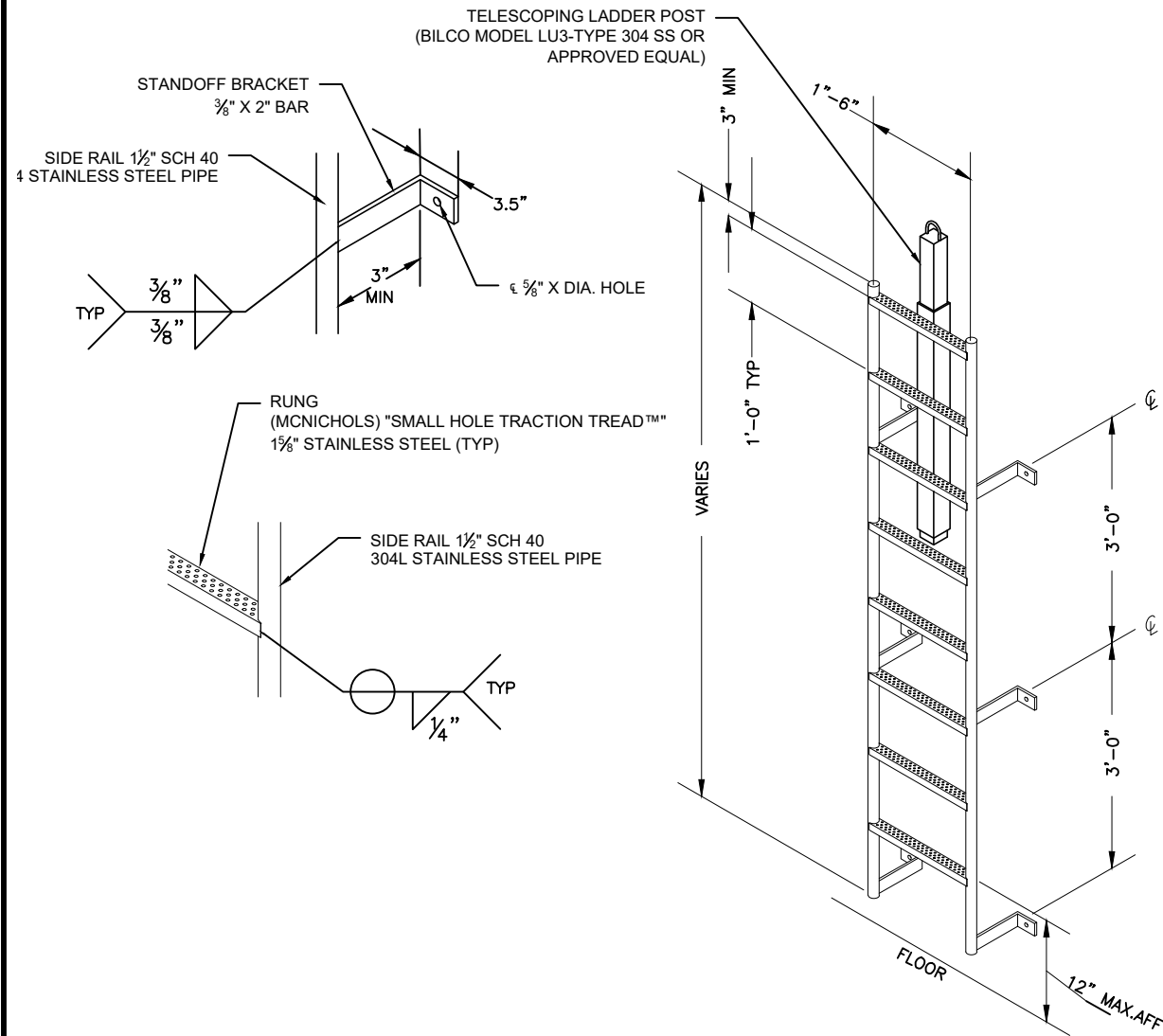
6000 WEST 4700 SOUTH VAULT MODIFICATIONS

RESERVOIR IMPROVEMENTS & PHOTOS

SCALE: NTS
DATE 10/7/19
PROJECT NUMBER 4135
DRAWING NUMBER 7
SHEET NUMBER 7 OF 8

NOTES:

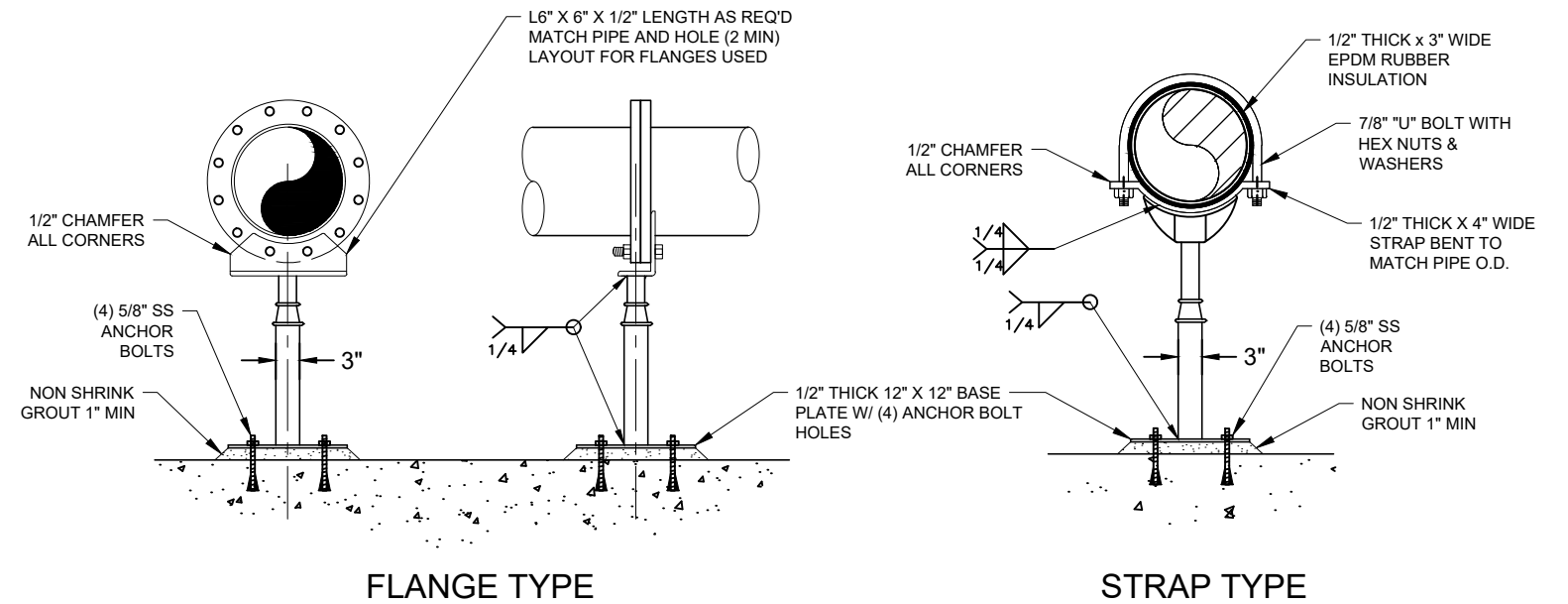
- LADDER, ANCHORS, AND BOLTS SHALL BE STAINLESS STEEL.
- CONSTRUCT LADDER TO OSHA STANDARDS.
- CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.



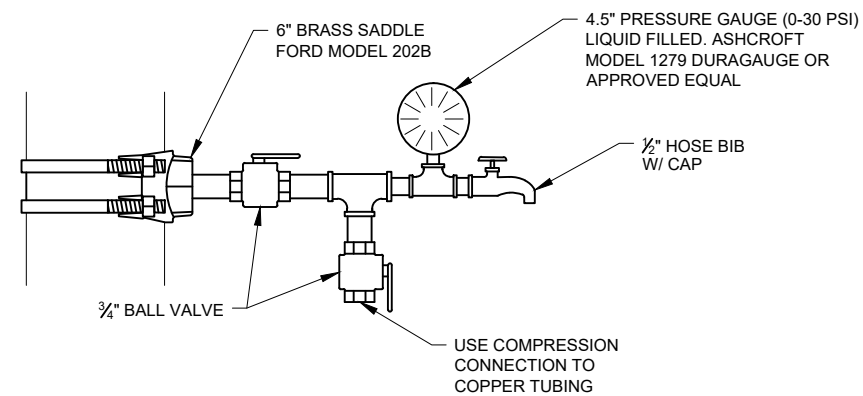
C LADDER DETAIL
SCALE: NTS

NOTES:

- PIPE SUPPORTS TO BE HOT DIP GALVANIZED.
- FIELD APPLY GALVANIZED COATING TO THREADED SECTION OF ANVIL PIPE SUPPORT.
- ANCHORS BOLTS TO BE STAINLESS STEEL.



D ADJUSTABLE PIPE SUPPORT DETAIL
SCALE: NTS



E PRESSURE TEE ASSEMBLY
SCALE: NTS

NOTES:

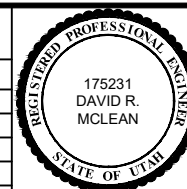
- ALL PIPING, BALL VALVES, AND FITTINGS TO BE BRASS.
- REMOVE EXISTING SADDLE AND APPLY EPOXY COATING TO STEEL PIPING PRIOR TO INSTALLING NEW SADDLE.

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" AT FULL SIZE (IF NOT 1" - SCALE ACCORDINGLY)

DESIGN:	KEVIN RUBOW
DRAWING:	KEVIN RUBOW
PROJ. MGR:	KEVIN RUBOW
APPROVAL:	



6000 WEST 4700 SOUTH VAULT MODIFICATIONS

DETAILS

SCALE:	SCALE
DATE:	10/7/19
PROJECT NUMBER:	4135
DRAWING NUMBER:	8
SHEET NUMBER:	8 OF 8