



Project #20-053
Dominion Energy ILI Receiver Facility
450 South 300 West

REPORT SUMMARY

Project Name: Dominion Energy ILI Receiver Facility
Proponent / Owner: Kevin Mulvey / Authorized Agent / Dominion Energy Utah
Project Address: 450 South 300 West
Request: Conditional Use Permit
Current Zoning: Traditional Neighborhood Residential (NR-6)
Type of Action: Quasi-Judicial
Hearing Date: October 22, 2020
Submitted By: Tanya Rice, Planner II

RECOMMENDATION

Staff recommends that the Planning Commission **conditionally approve** a Conditional Use Permit for Project #20-053, Dominion Energy ILI Receiver Facility, in the Traditional Neighborhood Residential (NR-6) zone located at 450 South 300 W, TIN #02-057-0011.

Current Land use adjoining the subject property

<i>North:</i>	NR-6: Utility Uses	<i>East:</i>	NR-6: Residential Uses
<i>South:</i>	NR-6: Residential Uses	<i>West:</i>	REC - Fairgrounds

PROPOSAL

This is a proposal for an unmanned in-line inspection (ILI) facility consisting of a 4' x 5' x 3' above ground pigging facility, mainline valve assembly and 12" x 16" receiver barrel. The facility operates 1-2 straight weeks every 6-7 years to inspect the natural gas lines in the area. A 24' drive lane will circle the facility to be used as an access road during inspections. The property will be fenced for security with locked double swing gates at the entrances to 300 West.

The proposed location of the facility is on a .91 vacant parcel on 300 West near the Cache Valley Fairgrounds in the NR-6 zone. The parcel abuts residential housing to the south and east and the fairgrounds to the west. The property is relatively flat. The proposed location for ILI facility is to the south of an existing small Questar Gas facility and shed.

LAND DEVELOPMENT CODE

The Land Development Code (LDC) 17.38 requires a Conditional Use permit for all new utility facilities within the residential zone. There are no specific codes for low impact ILI facilities so codes for the NR-6 zone apply.

SETBACKS

The Land Development Code (LDC) setback requirements for NR-6 zone are as follows (as measured from property lines):

Front: 25'
Side: 8'
Rear: 10'

As proposed, with a 25' front setback to the closed exposed equipment, the project meets minimum setback requirements of the LDC.

FENCING

The LDC has specific requirements for fencing heights and materials for the front of residential property. It specifically prohibits chain link and barbed wire with a 4' maximum height in the front of the property.

The proposal calls for an 8' chain link security fencing with coiled barbed wire around the perimeter of the property. Dominion Energy is agreeable to using alternative materials for screening and security along the front property line. Other materials shall be considered by planning commission. The proposed material is not consistent with residential fencing and cannot exceed 4' in height in a residential zone.

Federal and state agency allows public utilities and services extra health and safety allowances (higher fences) for safety and security reasons. If it is determined that an 8' fence is required for safety reasons, the fence may be set back 5'-10' from the front property line and buffered with landscaping. As conditioned, with a fence that does not exceed 4' in height and approved fence material chosen by commission, the project meets the requirements of the LDC.

NOISE

The applicant indicates that noise generated from this type of facility is minimal. When the ILI facility is operating during the 1 to 2-week timespan every 6 years, moderate industrial noise will be audible equivalent to the existing utility facility north of the subject property. Existing noise ordinance would regulate any noise disturbance between 10:00 pm and 7:00 am.

LANDSCAPE

There are no specific landscape requirements for NR-6 zone except for the park-strip and street tree requirements, however, conditional use permits give the flexibility to make conditions to mitigate the visual and operational impacts to the neighborhood. The aesthetic quality of a neighborhood should be considered when authorizing utility uses in a neighborhood zone. Landscape buffering of the ILI facility and intermittent tree placement on site would help maintain the natural quality of this site, particularly important because the site will be vacant during the 6-year spans between facility operations.

As conditioned, with a performance landscaping plan detailing park-strip, on-site plantings and 8' fence buffering (if needed), the project meets the requirements in the LDC.

AGENCY AND CITY DEPARTMENT COMMENTS

Comments were solicited from the following departments or agencies:

• Engineering	• Water
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PUBLIC COMMENTS

Notices were mailed to property owners within 300 feet of the subject property. As of the time of this report, no comment had been received.

PUBLIC NOTIFICATION

Legal notices were published in the Herald Journal on 10/10/2020 and the Utah Public Meeting website on 10/14/2020. Public notices were mailed to all property owners within 300 feet of the project site on 10/05/2020.

RECOMMENDED CONDITIONS OF APPROVAL

This project is subject to the proponent or property owner agreeing to comply with the following conditions as written, or as may be amended by the Planning Commission.

1. All standard conditions of approval will be recorded and are available in the Community Development Department.
2. Double swing gates shall swing inward toward the property.
3. The fence along the front of the property shall not exceed 6' in height.
4. Fence material along the front of the property shall be an alternative to chain link and barbed wire.

5. A performance landscaping plan shall be submitted for approval to the Community Development Department prior to the issuance of permits. The plan shall include a plan for detailed park-strip, on-site plantings, and 8' fence buffering (if needed).
6. Prior to issuance of a permits, the Director of Community Development shall receive a written memorandum from each of the following departments or agencies indicating that their requirements have been satisfied:

a. Water / Cross Connection

- i. All landscape irrigation system's fed from Logan City water must have a high hazard backflow assembly installed and tested. No dual source feed systems allowed without Logan Cities prior approval and installation criteria (tested RP & swing joint) is met and inspection is passed. All backflow assemblies must be tested within 10 days of turning in water to them and annually thereafter.
- ii. If there is a building then the buildings water main needs to have its own RP (ASSE1013) installed and tested on the water main as it enters the building before any branch offs or connections. Properly sized drain required. This is for containment protection only (Cities protection only). Points of use protection will also be needed (occupant's protection). Installation criteria of B/F assemblies must be as per 2018 IPC and Utah amendments.
- iii. PROJECT SHALL COMPLY WITH ALL CURRENT PLUMBING CODES, UTAH STATE AMENDMENTS, UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE PERTAINING TO BACKFLOW PROTECTION AND CROSS CONNECTION PREVENTION.

b. Engineering

- i. Provide storm water detention/retention per Logan City Design Standards. This includes the retention onsite of the 80% storm event (0.5") through the use of Low Impact Design Methods. Provide calculations on construction drawings.
- ii. Construct curb, gutter, park strip and sidewalk along property frontage. Pavement section shall match existing or comply with City road design standards, which ever one provides the best pavement section shall be constructed.
- iii. Provide water service to maintain park strip landscaping and any landscaping requirements on property.
- iv. Drawing sheet 1 of 3 indicates lot size to be 1 acre and the disturbed area to be about 0.67 acres. Sheet 2 calls for a gravel surface over what appears to be the entire site. If this is the case, a State NOI and Storm Water Pollution Prevention Plan must be submitted for review and approval. This will also require a Storm Water Maintenance Agreement to be submitted for review, approval and recordation at County Recorder's Office.
- v. Construct gates at access points to swing into property so as not to block City sidewalk and right of way
- vi. Provide water shares or in-lieu of fee for any new demand on City system for this development.

RECOMMENDED FINDINGS FOR APPROVAL FOR THE CONDITIONAL USE PERMIT

The Planning Commission bases its decisions on the following findings supported in the administrative record for this project:

1. The proposed project is compatible with surrounding land uses and will not interfere with the use and enjoyment of adjacent properties.
2. The Conditional Use Permit conforms to the requirements of Title 17 of the Logan Municipal Code.
3. The project met the minimum public noticing requirements of the Land Development Code and the Municipal Code.



APPLICATION FOR PROJECT REVIEW

☒ **Planning Commission** ☐ **Land Use Appeal Board** ☐ **Administrative Review**

Date Received 9/15/20	Received By RH	Scheduled Meeting Date Oct. 22	Zone NR-G	Application Number PG 20-053
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Type of Application (Check all that apply):

- | | | | |
|---|---|--------------------------------------|---|
| <input type="checkbox"/> Design Review | <input checked="" type="checkbox"/> Conditional Use | <input type="checkbox"/> Subdivision | <input type="checkbox"/> Zone Change |
| <input type="checkbox"/> Code Amendment | <input type="checkbox"/> Appeal | <input type="checkbox"/> Other | <input type="checkbox"/> Administrative Design Review |

PROJECT NAME

DOMINION ENERGY ILI RECEIVER FACILITY

PROJECT ADDRESS

450 SOUTH 300 WEST

COUNTY PLAT TAX ID #

02 -- 057 -- 0011

AUTHORIZED AGENT FOR PROPERTY OWNER (Must be accurate and complete)

Kevin Mulvey

MAIN PHONE #

801-592-5808

MAILING ADDRESS

1140 West 200 South

CITY

Salt Lake City

STATE

Utah

ZIP

84104

EMAIL ADDRESS

kevin@mulveylandservices.com

PROPERTY OWNER OF RECORD (Must be listed)

Questar Gas Company dba Dominion Energy Utah

MAIN PHONE #

801-324-5936

MAILING ADDRESS

1140 West 200 South

CITY

Salt Lake City, Utah

STATE

ZIP

84104

EMAIL ADDRESS

kim.m.garrick@dominionenergy.com

DESCRIBE THE PROPOSED PROJECT AS IT SHOULD BE PRESENTED
(Include as much detail as possible - attach a separate sheet if needed)

This facility is an in-line inspection facility that will be operated once every 6-7 years for a 1-2 week period to inspect the natural gas lines in the area.

Total Lot Size (acres)

.91

Size of Proposed New Building
(square feet)

N/A

Number of Proposed New Units/Lots

0

- NO SITE ACTIVITY MAY OCCUR UNTIL AFTER APPROPRIATE COMMITTEE APPROVAL -

I certify that the information contained in this application and all supporting plans are correct and accurate. I also certify that I am authorized to sign all further legal documents and permits on behalf of the property owner.

Signature of Property Owner's Authorized Agent

KJ Mulvey

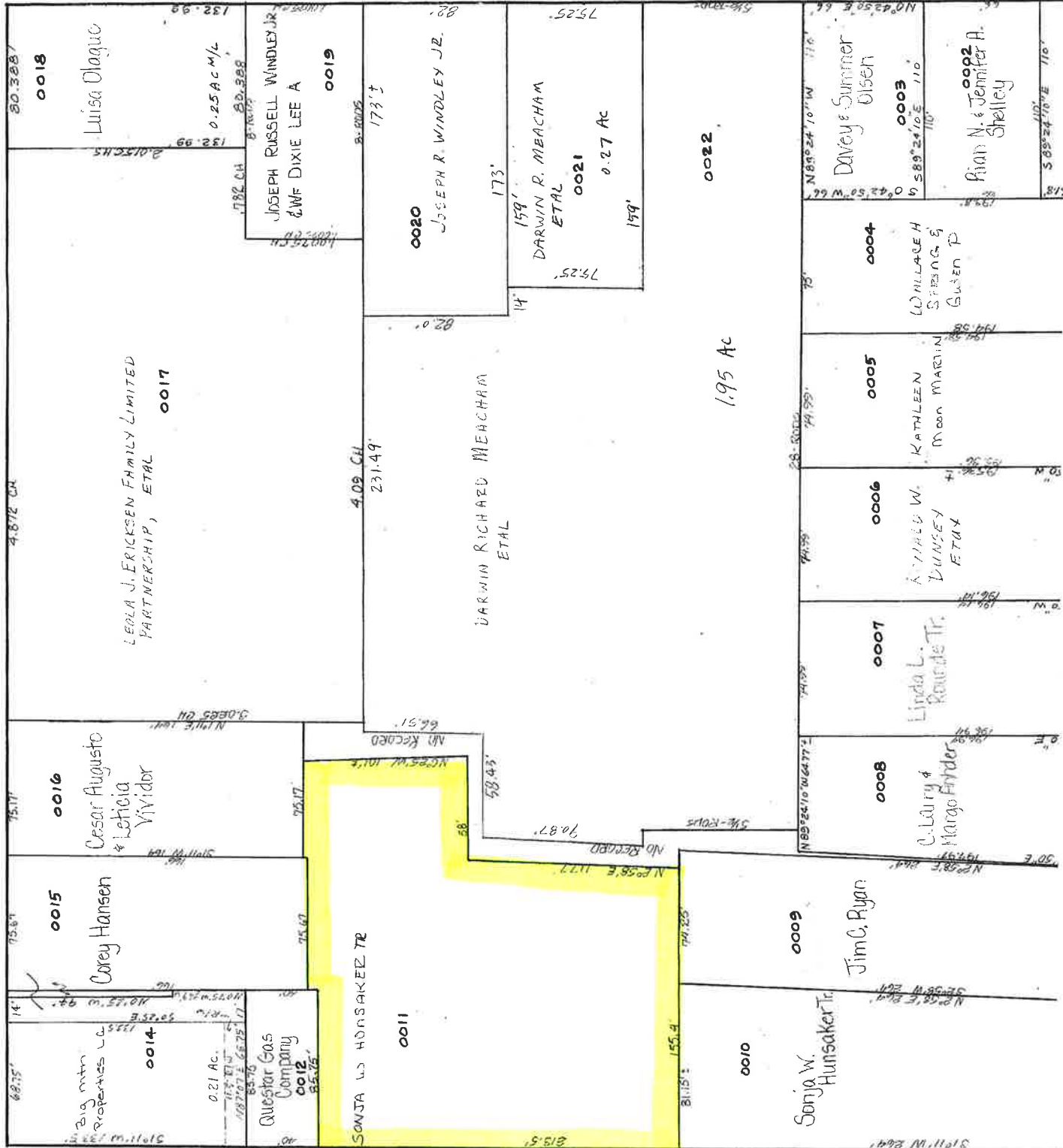
I certify that I am the property owner on record of the subject property and that I consent to the submittal of this project. I understand that all further legal documents and permits will be sent to my authorized agent listed above.

Signature of Property Owner

DOMINION ENERGY

SEE 02-050

FOURTH SOUTH STREET



SEE 02-051

SEE 02-056



VICINITY MAP
SCALE: NONE

GENERAL NOTES

1.1 GENERAL:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A BENCHMARK FOR USE IN SITE PREPARATION.
- PROTECTION AND REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES NOT DELINEATED ON THE CONTRACT DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REPLACEMENT OF SURVEY MONUMENTS OR PROPERTY STAKES SHALL BE DONE TO COUNTY STANDARDS.
- THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTORS OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. WORK SHALL INCLUDE CLEARING, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS, GRADING, EXCAVATING, BACKFILLING, AND ALL RELATED ITEMS. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES OF FEDERAL, STATE, REGIONAL AND LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.
- EXPLOSIVES ARE PROHIBITED ON THE PROJECT SITE, UNLESS APPROVED BY COMPANY. SEE SP. 9-11-017. BLASTING.
- GRANULAR EMBANKMENT MATERIAL PLACED AGAINST ANY CONCRETE STRUCTURE SHALL BE 2 INCH MINUS OR LESS.
- THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REPORTED TO THE COMPANY ECC AND PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- IF CONSTRUCTION IS HALTED DUE TO INCLEMENT WEATHER CONDITIONS, THE CONTRACTOR SHALL CLEAN UP THE PROJECT SITE, AND MAINTAIN THE SITE DURING THE SHUT-DOWN PERIOD.

1.2 PERMITTING NOTES:

- CONTRACTOR TO WORK WITH OWNER TO OBTAIN ALL PERMITS AND LICENSES PRIOR TO COMMENCING WORK ON THIS PROJECT.
- ANY WORK WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE JURISDICTION. CONTRACTOR SHALL MEET ANY ADDITIONAL REQUIREMENTS OF SAID JURISDICTION.
- THE CONTRACTOR SHALL TAKE PRECAUTION TO PREVENT DAMAGE TO ADJACENT PROPERTY AND RESTORE ANY DAMAGES TO ORIGINAL CONDITIONS WITHOUT ADDITIONAL PROJECT COSTS.

1.3 INSPECTION AND TESTING NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS TESTING INCLUDING BUT NOT LIMITED TO CONCRETE, ASPHALT, AND COMPACTION. SEE CONTRACT SPECIFICATIONS FOR REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO COORDINATE TESTS AND INSPECTIONS WITH THE PROJECT ENGINEER AND SPECIAL INSPECTOR.
- CONTRACTOR IS RESPONSIBLE FOR RE-INSPECTIONS DUE TO POOR WORKMANSHIP.
- CONTRACTORS ARE RESPONSIBLE FOR ALL OSHA REQUIREMENTS ON THE PROJECT SITE.
- SOIL TESTS PERFORMED SHALL INCLUDE:
 - OPTIMUM MOISTURE - MAXIMUM DENSITY CURVE (FOR EACH SOIL ENCOUNTERED).
 - COMPRESSIVE STRENGTH AND/OR BEARING TEST (OF EACH SOIL STRATA).
 - FIELD DENSITY TEST
 - TEST REPORTS ON BORROW MATERIAL
- THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL EMPLOY CONSULTANTS OR TESTING SERVICES TO PERFORM INSPECTIONS AND TESTS NECESSARY TO ASSURE THE SPECIFIED COMPACTION AND OTHER MINIMUM REQUIREMENTS AS SHOWN IN THE CONTRACT DOCUMENTS.
- A COPY OF ALL SOIL TEST RESULTS SHALL BE SUBMITTED TO THE OWNER FOR ITS RECORD.

LINE AND SYMBOL LEGEND

	EXISTING IHP GAS LINE
	EXISTING HP GAS LINE
	P/L
	CHAIN LINK SECURITY FENCE
	EDGE OF ROAD / ASPHALT
	W
	OVHD
	TOE
	EXISTING CONTOURS
	PROPOSED CONTOURS

SITE CALCS

PROPERTY AREA	
NEW PROPERTY	1 ACRE (43,561 SQ FT)
DISTURBANCE AREA	APPROX 29,000 SQ FT
UNAFFECTED AREA	APPROX 14,561 SQ FT
VOLUME ESTIMATES	
EXISTING MATERIAL REMOVAL	APPROX 657 CU YD
1 1/2" STRUCTURAL FILL	APPROX 1494 CU YD
1" ANGULAR ROCK	APPROX 270 CU YD
1"-2" CLEAN DRAIN ROCK	APPROX 39 CU YD

1.4 EXISTING UTILITY NOTES:

- EXISTING UTILITY LOCATIONS AND DEPTHS ARE APPROXIMATE UNLESS NOTED OTHERWISE.
- CONTRACTOR TO CONTACT BLUE STAKES FOR MARKING OF EXISTING UTILITIES PRIOR TO PERFORMING ANY EXCAVATION.
- AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR:
 - VERIFYING ALL UTILITY LOCATIONS PRIOR TO COMMENCING WORK.
 - IDENTIFYING CONFLICTS A MINIMUM OF 500 FEET AHEAD OF TRENCHING OPERATIONS.
 - IMMEDIATELY NOTIFYING THE PROJECT ENGINEER OF DISCREPANCIES AND OR CONFLICTS.
 - MAINTAINING SERVICE OF OTHER UTILITIES AND NOTIFYING THEM IF CONSTRUCTION MAY INTERFERE WITH NORMAL OPERATIONS.
 - RESTORING ANY DAMAGED UTILITIES DUE TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- MODIFICATIONS TO EXISTING UTILITIES SHALL CONFORM TO THE OWNER'S UTILITY STANDARDS AND SPECIFICATIONS.

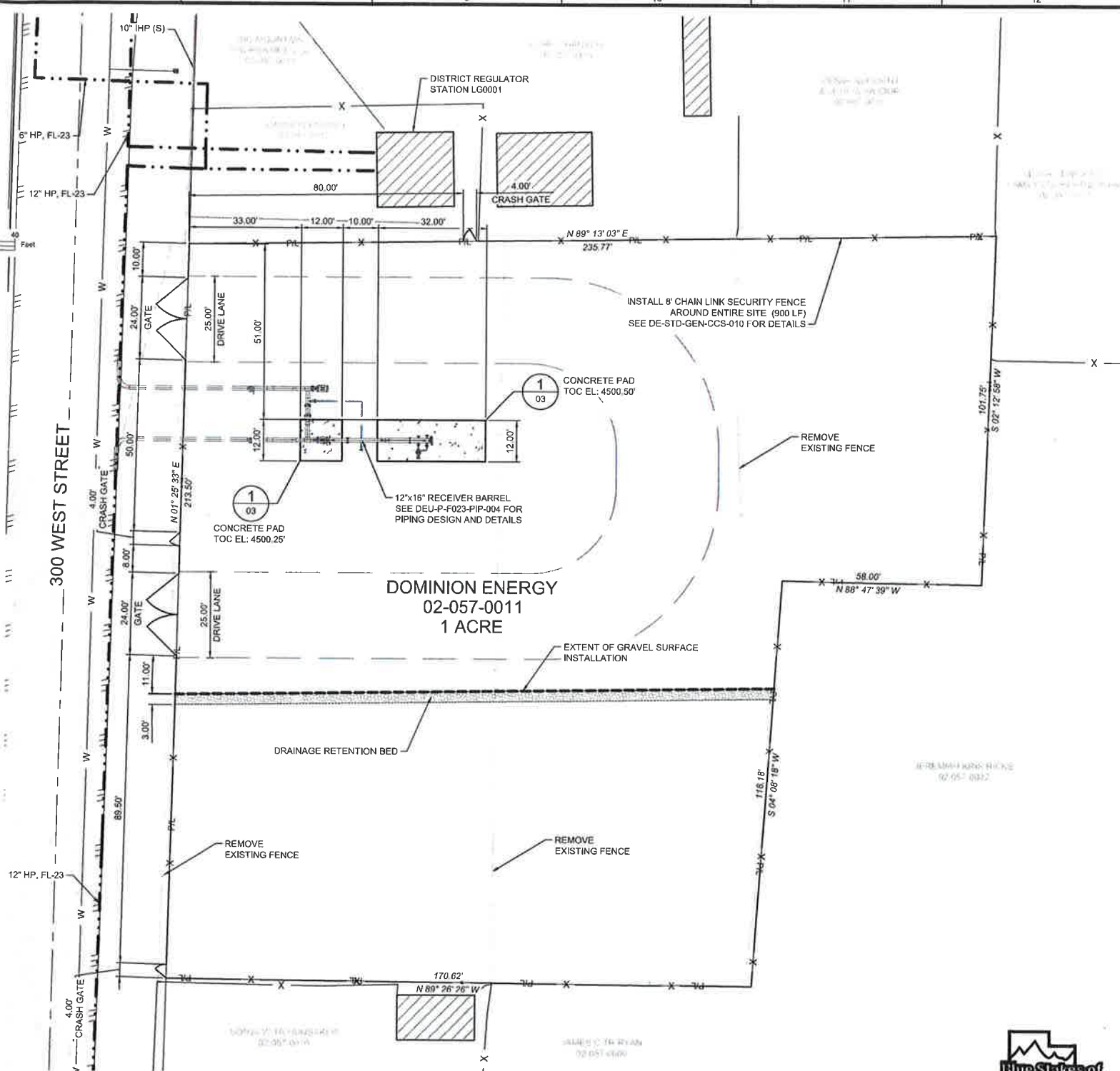
1.5 ROUGH GRADING NOTES:

- IN THE EVENT THAT ANY UNFORESEEN CONDITIONS ARE ENCOUNTERED DURING GRADING OPERATIONS, NOTIFY THE PROJECT ENGINEER FOR DIRECTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY EARTHWORK WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
- CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PROTECT WORKERS AND PREVENT UNDERMINING OF ANY ADJACENT FEATURES, FACILITIES OR STRUCTURES AND/OR CAVING OF THE EXCAVATION.
- ANY CONSTRUCTION WASTE (SOIL, ROCKS, TREES, ASPHALT, BUILDING DEMOLITION, ETC) LEAVING THE PROJECT SITE IS REQUIRED TO BE DISPOSED OF AT A FACILITY PRE-APPROVED BY THE COMPANY.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
- CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

HORIZONTAL VERTICAL COMPACTION

- FILL IS DEFINED AS MATERIAL FOR FILLING AND BACKFILLING THAT SHALL BE CLEAN SUBSOIL FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN GREATEST DIMENSION, TOPSOIL, DEBRIS, WASTE, FROZEN MATERIALS, VEGETABLE AND OTHER DELETERIOUS MATTER PREVENTING UNIFORM CONTROLLABLE COMPACTION.
- UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL CLEAR AND DISPOSE ALL VEGETATION FROM THE LIMITS OF CONSTRUCTION AS SHOWN ON THE DRAWINGS.
- ALL CONSTRUCTION AREAS ON WHICH WORK IS TO BE PERFORMED, INCLUDING EXCAVATION, EMBANKMENT, ROADS, PARKING AREAS, OPERATING AREAS, OR OTHER AREAS AS SHOWN ON DRAWINGS SHALL BE STRIPPED OF ALL TOP SOIL AND DEBRIS TO A DEPTH OF 6" MINIMUM UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT. THIS MATERIAL CAN BE STOCKPILED, RAKED, AND CLEANED OF DEBRIS, AND REUSED AS FILL AT THE DISCRETION OF THE OWNER AS SPECIFIED.
- THE CONTOUR LINES AND ELEVATIONS ON THE TOPOGRAPHICAL DRAWINGS SHOWING EXISTING ELEVATIONS ARE ONLY APPROXIMATE; THEREFORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING THE AMOUNT OF GRADING, EARTHWORK, AND FILL MATERIAL REQUIRED. OWNER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF CONTOUR LINES OF ELEVATIONS SHOWING EXISTING ELEVATIONS.

300 WEST STREET



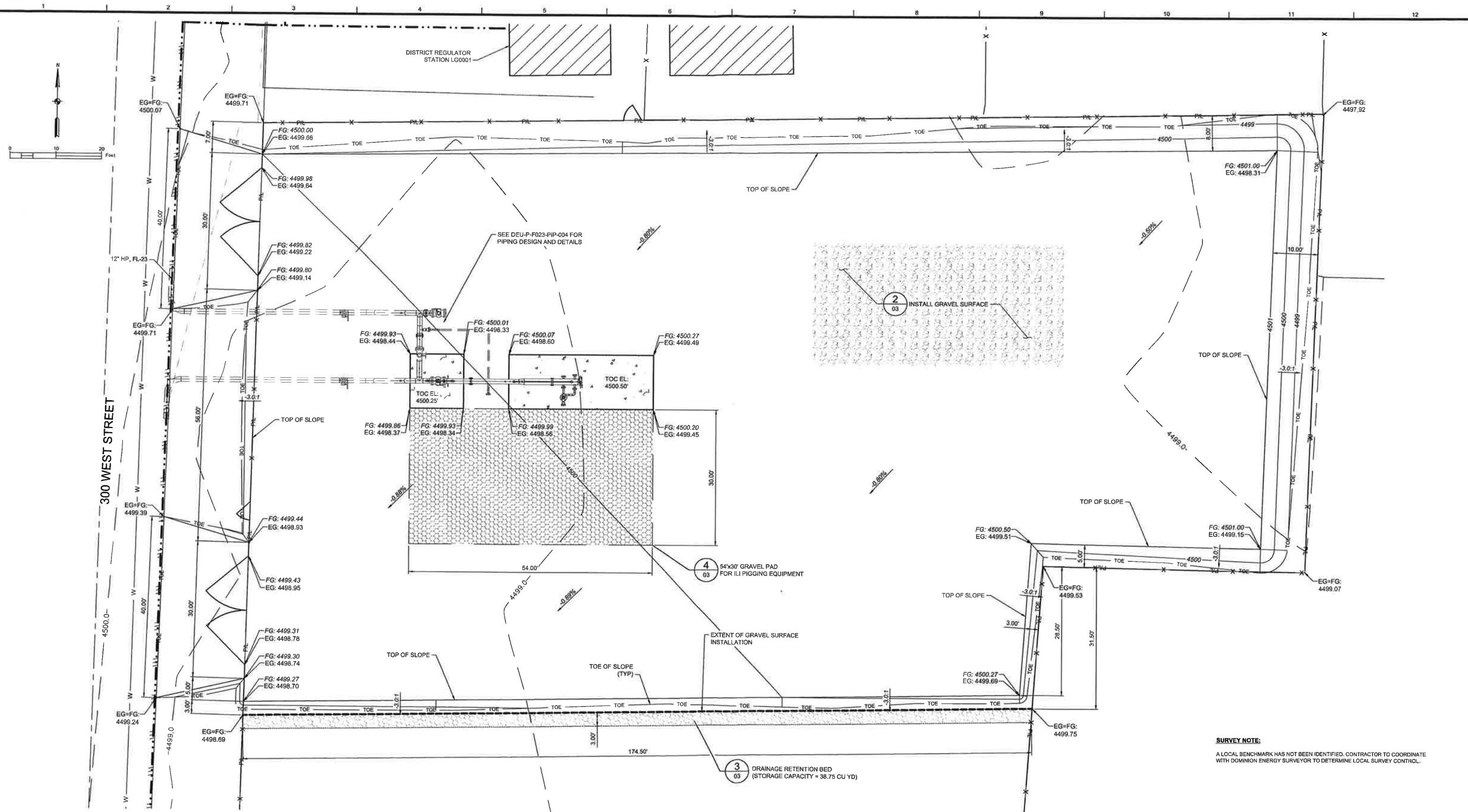
SITE PLAN
SCALE: 1' = 20'-0"



CALL TWO BUSINESS DAYS
BEFORE YOU DIG TO HAVE
UTILITIES LOCATED
811 or 1-800-662-4111

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS			WORK ORDERS			REVISIONS					ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK		DRAWN BY: I. TORRES		
DEU-P-F023-PIP-004	0	FL-23 ILLI PIGGING SITE - PIPING	83290.23	FL-23 INSTALL NEW ILLI PIGGING FACILITY - 12"x16" RECEIVER	0	ISSUED FOR CONSTRUCTION	09/09/20	IAT	ERB		CHECKED BY: E. BUSH		
DE-STD-GEN-CCS-010	0	STANDARD CHAIN LINK FENCE DETAILS									PROJECT ENGR: J. WEIRZBICKI		
											SURVEYOR: G. NEUWART (ALTA)		
											ENGR MNGR: S. MESSERSMITH		
											CONSTR MNGR: D. FRANCIS		
THE INFORMATION AND CONCEPTS CONTAINED IN THIS DOCUMENT ARE CONFIDENTIAL AND THE PROPERTY OF DOMINION ENERGY AND/OR THE CLIENT IDENTIFIED. DUPLICATION OR USE OF THIS INFORMATION AND/OR CONSTRUCTION OF SYSTEMS BASED ON THIS DOCUMENT ARE STRICTLY PROHIBITED WITHOUT WRITTEN AUTHORIZATION FROM DOMINION ENERGY.													
												DOMINION ENERGY UTAH	
												SECTION: 4 T11N R1E	
												ELEVATION: 4500'	
												LAT: 41.7235 LONG: -111.8428	
												SCALE: AS NOTED	
												LINE NUMBER: FL-23	
												FACILITY: ILLI PIGGING SITE AND MAINLINE VALVE ASSEMBLY	
												TITLE: 12"x16" RECEIVER BARREL	
												DESCRIPTION: SITE PLAN, DETAIL, AND VICINITY MAP	
												ADDRESS: 450 SOUTH 300 WEST	
												CITY LOGAN	
												COUNTY CACHE	
												STATE UTAH	
												DRAWING NUMBER	
												DEU-P-F023-CCS-001	
												SHEET	
												1 OF 3	
												REVISION	
												0	



ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS				WORK ORDERS				REVISIONS				ENGINEERING RECORD			
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY	CHECKED BY	PROJECT ENGR	SURVEYOR	ENGR MNGR	CONSTR MNGR
DEU-P-F023-PIP-004	0	FL-23 ILI PIGGING SITE - PIPING	83290.23	FL-23 INSTALL NEW ILI PIGGING FACILITY - 12"x16" RECEIVER	0	ISSUED FOR CONSTRUCTION	09/09/20	IAT	ERB	FL-23	E. BUSH	J. WEIRZBICKI	G. NEWHART (ALTA)	S. MESSERSMITH	D. FRANCIS
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												SECTION: 4	T11N	R1E	
												ELEVATION: 4500'			
												LAT: 41.7235	LONG: -111.8428		
												SCALE: 1" = 10'-0"			
												CITY: LOGAN			
												COUNTY: CACHE			
												STATE: UTAH			
												DRAWING NUMBER: DEU-P-F023-CCS-001			
												SHEET: 2 OF 3			
												REVISION: 0			

1 2 3 4 5 6 7 8 9 10 11 12

REINFORCING STEEL

1. REFERENCES
 - A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
 - B. ACI "DETAILING MANUAL"
 - C. CRSI MSP-1 "MANUAL OF STANDARD PRACTICE"
2. REINFORCING STEEL: ASTM A706 DEFORMED BARS OR ASTM A615 GRADE 60 DEFORMED BARS WITH AN ACTUAL YIELD STRENGTH NOT EXCEEDING 78,000 PSI AND A RATIO OF ACTUAL ULTIMATE TENSILE STRENGTH TO ACTUAL YIELD STRENGTH NOT LESS THAN 1.25
3. PROVIDE MINIMUM CONCRETE COVER OVER REINFORCING STEEL AS FOLLOWS, UNLESS STATED OTHERWISE:
 - 3 INCHES FOR CONCRETE CAST AGAINST EARTH
 - 2 INCHES OTHERWISE
 - PROVIDE MINIMUM 1 1/2" CONCRETE COVER TO TOP OF FLATWORK IF APPLICABLE
4. SECURE ALL REINFORCING, INCLUDING DOWELS, IN POSITION WITH BAR SUPPORTS PER CRSI BEFORE CONCRETE PLACEMENT.

1. PORTLAND CEMENT: ASTM C150 TYPE III.
2. FLY ASH: ASTM C618 CLASS C OR F INCLUDING TABLE 3 SPECIFICATIONS
A. CONTENT BY WEIGHT: 15% MAXIMUM EXCEPT SLABS - 25% MAXIMUM
3. NORMAL WEIGHT AGGREGATE: ASTM C33, CLASS 35 OR GREATER
4. WATER: POTABLE, IN CONFORMANCE WITH ASTM C34
5. WATER-REDUCING ADMIXTURE: ASTM C494
6. AIR-ENTRAINING ADMIXTURE: ASTM C260
7. STRUCTURAL CONCRETE: ACI 318, CHAPTERS 3 AND 5.
8. CONCRETE SHALL DEVELOP THE FOLLOWING COMPRESSIVE STRENGTH
WITHIN 28 DAYS FOR DRIVES, PADS AND FOOTINGS: 4000 PSI.
9. USE AIR-ENTRAINED CONCRETE OF 5%-7% AIR BY VOLUME.
10. CONCRETE SLUMP RANGE OF 3"-6".



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**Dominion
Energy®**

DOMINION ENERGY UTAH

SECTION: 4	T11N	R 1E
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ELEVATION: 4500'

LAT: 41.7235 LONG: -111.8428

SCALE: AS NOTED

LINE NUMBER:	FL- 23
FACILITY:	ILI PIGGING SITE AND MAINLINE VALVE ASSEMBLY
TITLE:	12"x16" RECEIVER BARREL
DESCRIPTION:	DETAILS
ADDRESS:	450 SOUTH 300 WEST

CITY	COUNTY	STATE
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LOGAN	CACHE	UTAH
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DRAWING NUMBER	SHEET	REVISION
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DEU-P-F023-CCS-001	3 OF 3	0
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VICINITY MAP



CALL TWO BUSINESS DAYS BEFORE YOU DIG TO HAVE UTILITIES LOCATED
811 or 1-800-662-4111

NOTES

- BOLD LINES REPRESENT NEW PIPING.
- R_i IDENTIFIES GUIDE BARRED TEES.
- ANY MATERIAL SUBSTITUTION OR FIELD DESIGN CHANGES REQUIRE ENGINEERING APPROVAL.
- SEE SPECIFICATION 9-00-01 FOR MATERIAL NOTE NUMBERS LISTED.
- LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- CORROSION CONTROL: BURIED FABRICATION PIPING SHALL BE CLEANED AND COATED PER SP 2-13-10. THE RECOMMENDED FIELD APPLIED COATING FOR BURIED FBE PIPING IS 2-PART EPOXY AND FOR BURIED ARO PIPING POWERCRETE J APPLIED COATING. COATING TRANSITIONS ARE TO BE APPLIED PER DE-TYP-GEN-PIP-001. SOIL TO AIR INTERFACES (TRANSITIONS FROM BELOW TO ABOVE GROUND) REQUIRE AN OVERCOAT OF TRENTON WAX TAPE NUMBER 2 APPLIED PER SP 2-13-11. ALL BURIED PIPING TO BE CATHODICALLY PROTECTED WITHIN ONE YEAR OF INSTALLATION. ABOVE GROUND PIPING IS TO BE COATED PER SP 2-13-11. CONSULT CORROSION ENGINEERING FOR PIPELINE COATING EQUIVALENTS.
- FIELD VERIFY WALL THICKNESS AT ALL TIE-IN LOCATIONS.
- ALL VALVES MUST HAVE APPROPRIATE LOCKING DEVICES.
- BALL VALVES - REMOVE ALL MANUFACTURER VENT PLUGS AND REPLACE WITH SMALL BALL VALVES.
- ALL CHECK VALVES TO BE VENTED.
- INSULATE GAUGE AND CONTROL LINES, RELIEF STACK, SUPPORT BRACKETS, ETC.
- ENSURE INSULATION POINTS ARE NOT SHORTED / BY-PASSED THROUGH FUEL GAS PIPING, ELECTRICAL CONDUIT, ETC. THAT ARE ATTACHED TO THE PIPE SUPPORTS.
- ALL PIPE SHALL HAVE MILL TEST REPORTS (MTR'S) AS DEFINED WITHIN STANDARD PRACTICE 3-95-01.
- THE FORMULA USED TO CALCULATE THE MAWP FOR ALL STEEL PIPE AND NON-RATED FITTINGS IS $P = (2SDU) \times F \times E \times T$, WHERE $F=0.5$ FOR A CLASS 3 LOCATION, $E=1$, AND $T=1$.
- 2" IN SERVICE FILLET WELDS SHALL RECEIVE 100% NDE.
- PIPE IS DESIGNED TO WITHSTAND ANTICIPATED EXTERNAL PRESSURES AND LOADS FOLLOWING SP 1-01-02.

TEST SPECIFICATIONS

(STANDARD PRACTICE 1-90-01)

	TS-1 (TEST SEGMENT)
MINIMUM TEST PRESSURE	1080 PSIG
	(35.31% SMY S)
MAXIMUM TEST PRESSURE	
WATER	1500 PSIG 49.04% SMY S
NITROGEN	1500 PSIG 49.04% SMY S
CNG	NA
TEST DURATION MINIMUM	SHOP: 1 HR
	FIELD: 1 HR

FABRICATION SPECIFICATIONS

(STANDARD PRACTICE 2-10-01)

	SEGMENT 1
WELDING REQUIREMENTS:	API 1104
POST WELD HEAT TREATMENT	NO
WELD INSPECTION	VISUAL: 100%
	NDE: 100% > 2"
	STD. PRACTICE 3-15-01
JOB SPECIFIC REQUIREMENTS	LOW HYDROGEN WELD
	FOR IN SERVICE
	FILLET WELD

MAOP DETERMINATION

(STANDARD PRACTICE 1-97-04)

	MAOP SEGMENT 1
DESIGN CLASS LOCATION	3
DESIGN FACTOR (F)	F=0.5
TEST PRESSURE (MINIMUM)	1080 PSIG
TEST FACTOR	1.5
MINIMUM DESIGN PRESSURES	
A. PIPE (NOTE 14)	1529 PSIG
B. CALCULATED FITTINGS (NOTE 14)	1529 PSIG
C. RATED ITEMS	720 PSIG

D. TEST PRESSURE (MIN) / TEST FACTOR	
1080 PSIG / 1.5 =	720 PSIG
E. OTHER LIMITING FACTORS	
REGION MAOP	354 PSIG
SEGMENT MAOP (DESIGN) (MIN A, B, C, D)	720 PSIG
% SMY S @ SEGMENT MAOP	23.5%
PIPELINE MAOP (OPERATING) (MIN A, B, C, D, E)	354 PSIG
% SMY S @ PIPELINE MAOP	11.57%
REFER TO STANDARD PRACTICE 3-10-04 FOR IHP TEST	

MATERIAL LIST

NOTE 3

ITEM #	QTY	SIZE	DESCRIPTION	MAWP NOTE 14	MATL NOTES NOTE 4	WH #
WO#: 83290.23						
1	1	12"x16"	STANDARD RECOVER BARREL, RIGHT HAND CONFIGURATION - SEE DRAWING DE-STD-END-PP-008	720	N/A	N/A
2	1	12"	12" CL300 T&W, 3000 SPLIT TEE PRESSURE FITTINGS W/ GUIDE BARS & BACKUP STRIP, FIG 26-2427-0012-00	740	-	Q2573012
3	60	12"	BOLT, STUD, 1-1/4 x 8 3/4" LG, ASTM A193 GR-B7, W/2 HEX NUTS, 1-1/4, ASTM A194 GR-2H	N/A	7	Q3481039
4	20	12"	BOLT, STUD, 1-1/4 x 9 1/8" LG, ASTM A193 GR-B7, W/2 HEX NUTS, 1-1/4, ASTM A194 GR-2H	N/A	7	Q3481040
5	4	12"	ELL, CS, 45 DEG 3R, BW, 12.750 OD 0.375 WT, Y-52, SEGMENTABLE, ASTM A694, MSS SP75	1529	3	Q1762016
6	2	12"	ELL, CS, 90 DEG 3R, BW, 12.750 OD 0.375 WT, Y-52, SEGMENTABLE, ASTM A694, MSS SP75	1529	3	Q1762024
7	1	12"	FLANGE, BLIND THD, 12" NO. 600 LB, RF, ASME B16.5 W/ 1/2" TAP	1480	5	SO
8	3	12"	FLANGE, RFWN, CL600, 12 NPS, 0.375 WT, F-52, ASTM A694, MSS SP75	1480	6	Q1812161
9	1	12"	GASKET, INSULATING, CL600, RF, 12 NPS, TYPE F, PLAIN PHENOLIC GASKET, HOPE SLEEVE, 1 PHENOLIC WASHER PER BOLT	1480	10	Q442061
10	3	12"	GASKET, SPIRAL WND, CL600, RF, 12 NPS, B16.20, CGI INNER RING	1480	8	Q1930012
11	1	12"x4"	TEE, CS, RDCD, BW, 12.750 OD 0.375 WT x 4.500 OD 0.237 WT, Y-52, ASTM A694, MSS SP75	1529	3	Q2562063
12	2	12"x6"	TEE, CS, RDCD, BW, BARRED, 12.750 OD 0.375 WT x 6.625 OD 0.280 WT, Y-52, ASTM A694, MSS SP75	1529	3	Q2562096
13	2	12"	TEE, CS, STRT, BW, BARRED, 12.750 OD 0.375 WT, Y-52, ASTM A694, MSS SP75	1529	3	Q2562098
14	2	12"	VALVE, CS, BALL, CL600, 12 NPS, FULL PORT, RF x RF, CAMERON, FIG 800601-2-1, API 6D	1480	1	Q2705121
15	1	12"	VALVE, CS, PLUG, CL600, 12 NPS, BW x RF, NORDSTROM, FIG 2249 1/4	1480	1	Q2753007
16	24	6"	BOLT, STUD, 1 x 6 3/4" LG, ASTM A193 GR-B7, W/2 HEX NUTS, 1, ASTM A194 GR-2H	N/A	7	Q3400214
17	2	6"	CAP, CS, BLANKING, BW, CL600, 6 NPS, 0.280 WT, HUBER-YALE, W/ FACTORY BLEED PLUG & 1/2" TAP	1480	16	Q1186093
18	2	6"	FLANGE, RFWN, CL600, 6 NPS, 0.280 WT, F-52, ASTM A694, MSS SP75	1480	6	Q1806007
19	2	6"	GASKET, 6" NO. 600 LB, GARLOCK 9900	1333	9	Q1906006
20	2	6"	VALVE, CS, PLUG, CL600, 6 NPS, BW x RF, NORDSTROM, FIG 2249 1/4	1480	1	Q2746271
21	8	4"	BOLT, STUD, 7/8 x 5 3/4" LG, ASTM A193 GR-B7, W/2 HEX NUTS, 7/8, ASTM A194 GR-2H	N/A	7	Q3400164
22	8	4"	BOLT, STUD, 7/8 x 6 1/4" LG, ASTM A193 GR-B7, W/2 HEX NUTS, 7/8, ASTM A194 GR-2H	N/A	7	Q3400168
23	5	4"	ELL, CS, 90 DEG, BW, LR, 4.500 OD 0.237 WT, GR-B, ASTM A234 WPB	1843	2	Q1754001
24	1	4"	FLANGE, BLIND, CL600, RF, 4 NPS, ASTM A105	1480	5	Q1804095
25	2	4"	FLANGE, RFWN, CL600, 4 NPS, 0.237 WT, GR-B, ASME B16.5, ASTM A105	1480	5	Q1804070
26	1	4"	GASKET, 4" NO. 600 LB, GARLOCK 9900	1333	9	Q1904006
27	1	4"	GASKET, INSULATING, CL600, RF, 4 NPS, TYPE F, PLAIN PHENOLIC GASKET, HOPE SLEEVE, 1 PHENOLIC WASHER PER BOLT	1480	10	Q4434061
28	1	4"	VALVE, CS, PLUG, CL600, 4 NPS, BW x RF, NORDSTROM, 2245 1/4	1480	1	Q2744247
29	16	2"	BOLT, STUD, 5/8 x 4 1/4" LG, ASTM A193 GR-B7, W/2 HEX NUTS, 5/8, ASTM A194 GR-2H	N/A	7	Q3400112
30	1	2"	ELL, CS, 45 DEG, BW, LR, 2.375 OD 0.218 WT, GR-B, ASTM A234 WPB	3213	2	Q1752011
31	2	2"	FLANGE, RFWN, CL600, 2 NPS, 0.218 WT, GR-B, ASME B16.5, ASTM A105	1480	5	Q1802070
32	2	2"	GASKET, 2" NO. 600 LB, GARLOCK 9900	1333	9	Q1902003
33	2	2"	PG SIG, 3000#, ENDURO, FIG 200-19-10826, 4" NPS, FOR RUN SIZE 6-24	3000	4	Q5329006
34	2	2"	VALVE, CS, PLUG, CL600, 2 NPS, (XH 218), BW x RF, NORDSTROM, 2245 1/4, W/ LOCKING DEVICE # 3710701	1480	1	Q2742214
35	2	2"	WELDOLET, 2 NPS 0.218 WT OUTLET, GR-B, FOR RUN SIZES 12 TO 18, ASTM A105, B16.9	3213	4	Q1281080
36	2	1"	NIPPLE, CS, NPT x NPT, 1 NPS x 2 LG, 0.350 WT, GR-B A105 SMLS	7692	19	Q2001010
37	2	1"	VALVE, CS, BALL, 2200 CWP, 1 NPS, FNPT x FNPT, SWAGelok, S-65TF16, W/ LOCKING DEVICE	2200	N/A	Q2701022
38	2	1"	PARKER BLEED PLUG, CS, 10000#, MNPT, 1", BV10NB-80	10000	17	Q2701010
39	11	1/2"	NIPPLE, CS, NPT x NPT, 1/2 NPS x 2 LG, XHH 0.294 WT, GR-B A105 SMLS	9875	19	Q2000553
40	11	1/2"	PARKER BLEED PLUG, CS, 10000#, MNPT, 1/2", BV10NB-80	10000	17	Q2700510
41	8	1/2"	THREADED, 1/2 NPS 3000# OUTLET, GR-B, FOR RUN SIZES 3/4 TO 36, ASTM A105, B16.9	3000	4	Q1250501
42	3	1/2"	VALVE, CS, BALL, 2200 CWP, 1/2 NPS, FNPT x FNPT, SWAGelok, S-63TF8, W/ LOCKING DEVICE	2200	N/A	Q2700522
43	8	1/2"	VALVE, CS, PLUG, CL600, 1/2 NPS, STD PORT, FNPT x FNPT, NORDSTROM, FIG 2224	1480	N/A	Q2740501
44	2	12"	PIPE SUPPORT, EZ LINE DOUBLE U-BOLT, MODEL# 1218-RK ("U"= 1" TO 3/8") - SEE DWG DE-STD-GEN-CCS-002 FOR DETAILS AND SPECIFICATIONS	N/A	N/A	42331437
45	1	2"	FLANGE, BLIND, CL600, RF, 2 NPS, ASTM A105	1480	5	Q1802095

PRESSURE PIPING

NOTE 6

ITEM #	SIZE	DESCRIPTION	FOOTAGE	O.D.	SMYS	W.T.	MAWP NOTE 14	WH #
WO#: 83290.23								
P1	12"	PIPE, CS, BARE, 12.750 OD, 0.375 WT, X52, API 5L PSL2, ERW	10'	12.75"	52,000	0.375"	1529	Q0112522
P2	12"	PIPE, CS, FBE CTG, 12.750 OD, 0.375 WT, X52, API 5L PSL2, ERW	106'	12.75"	52,000	0.375"	1529	Q0212022
P3	6"	PIPE, CS, BARE, 6.625 OD, 0.280 WT, X52, API 5L PSL2, ERW	4'	6.625"	52,000	0.280"	2197	Q0106045
P4	6"	PIPE, CS, FBE CTG, 6.625 OD, 0.280 WT, X52, API 5L PSL2, ERW	14'	6.625"	52,000	0.280"	2197	Q0208019
P5	4"	PIPE, CS, BARE, 4.500 OD, 0.237 WT, GR-B, API 5L PSL2, SMLS	1'	4.500"	35,000	0.237"	1843	Q0104021
P6	4"	PIPE, CS, FBE CTG, 4.500 OD, 0.237 WT, GR-B, API 5L PSL2, SMLS	31'	4.500"	35,000	0.237"	1475	Q0204023
P7	2"	PIPE, CS, BARE, 2.375 OD, 0.218 WT, GR-B, ASTM A105, SMLS	5'	2.375"	35,000	0.218"	3213	Q0102031

PROJECT CONTACTS

PROJECT MANAGER:	JANEK WIERZBICKI	(801) 230-9703
PROJECT ENGINEER:	JANEK WIERZBICKI	(801) 230-9703
CATHODIC PROTECTION:	KELLY FAGER	(801) 201-5528
MEASUREMENT & CONTROLS:	JACE ANDERSON (SPRINGVILLE)	(801) 243-8302
IHP SURVEYOR:	BRADLEY PARK	(801) 544-6747
LEAD INSPECTOR:	TBD	
IHP SUPERVISOR:	TBD	
RIGHT OF WAY AGENT:	DANNY EASTBURN	(801) 201-2675
ENVIRONMENTAL HEALTH & SAFETY:	LAURA SPRINGSBEN	(801) 208-5207

ISSUED FOR CONSTRUCTION



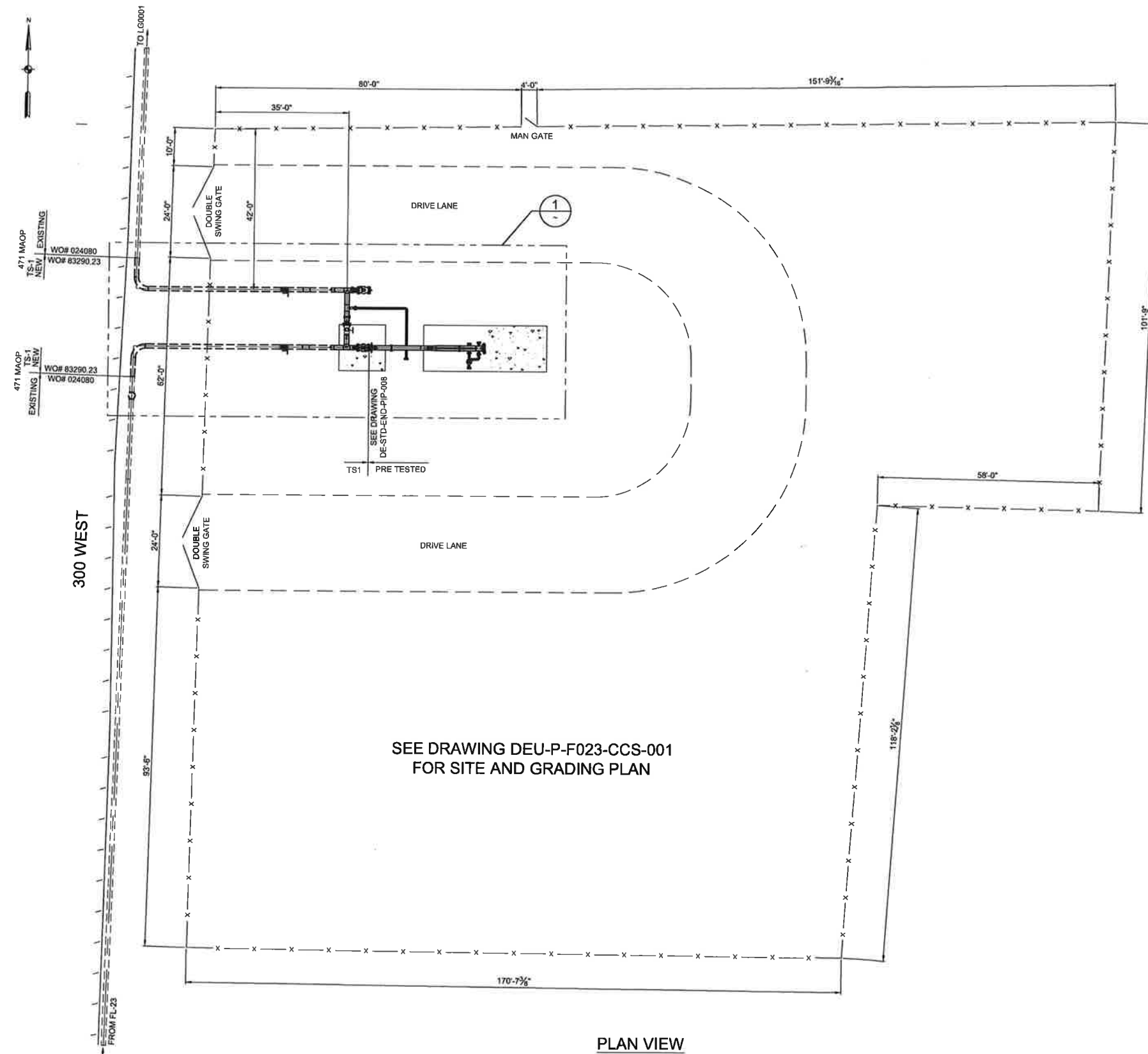
DOMINION ENERGY UTAH

SECTION: 4	T11N	R1E
ELEVATION: 4500'		
LAT: 41.7234	LONG: -111.8428	
SCALE: NONE		

LINE NUMBER:	FL-23
FACILITY:	LOGAN ILI FACILITY & MAINLINE VALVE ASSEMBLY
TITLE:	12"x16" RECEIVER
DESCRIPTION:	ISOMETRIC, VICINITY MAP, AND MATERIAL LIST
ADDRESS:	450 SOUTH AND 300 WEST

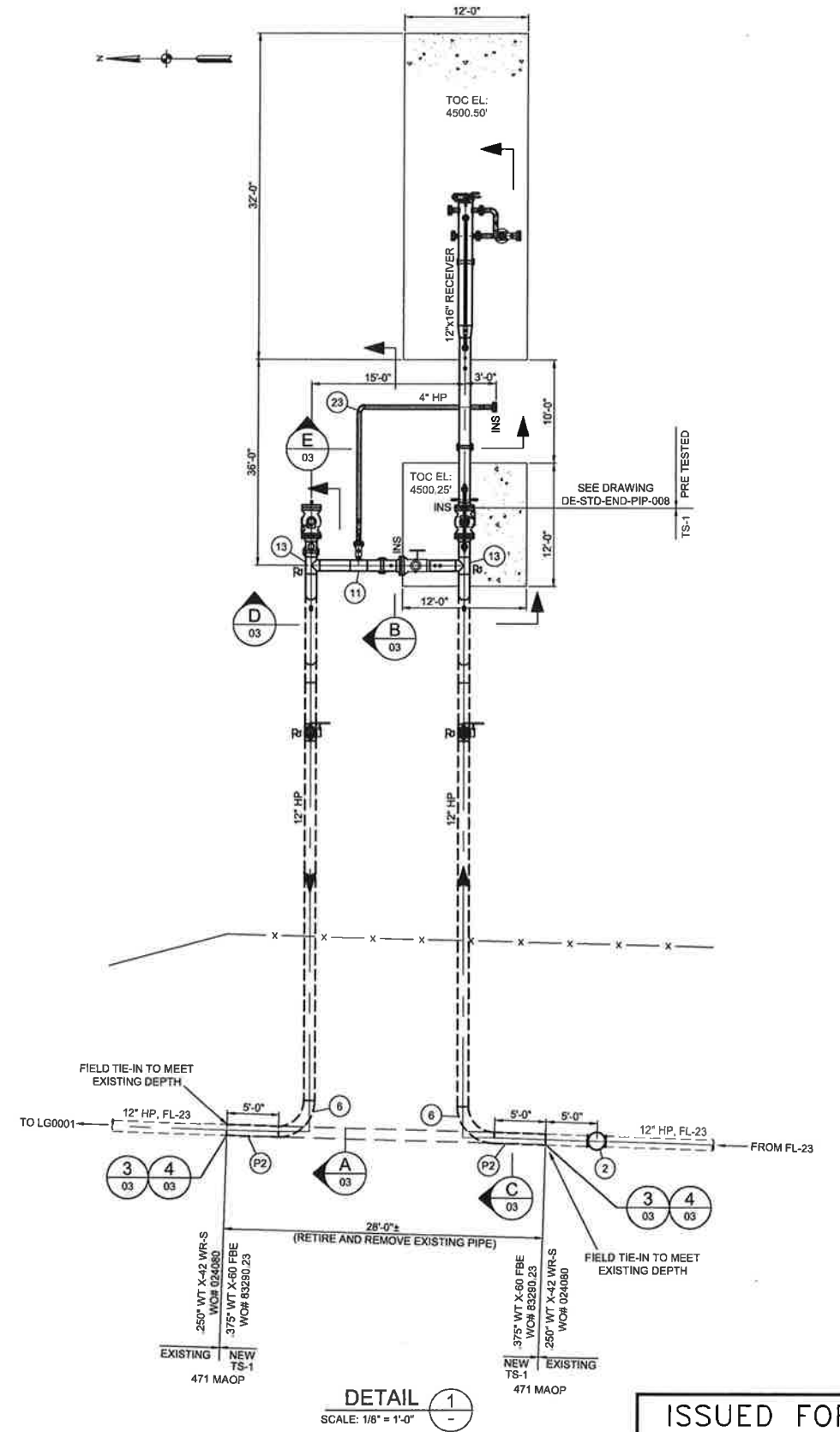
CITY	LOGAN	COUNTY	CACHE	STATE	UTAH
DRAWING NUMBER	DEU-P-F023-PIP-004	SHEET	1 OF 3	REVISION	0

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SEE DRAWING DEU-P-F023-CCS-001
FOR SITE AND GRADING PLAN

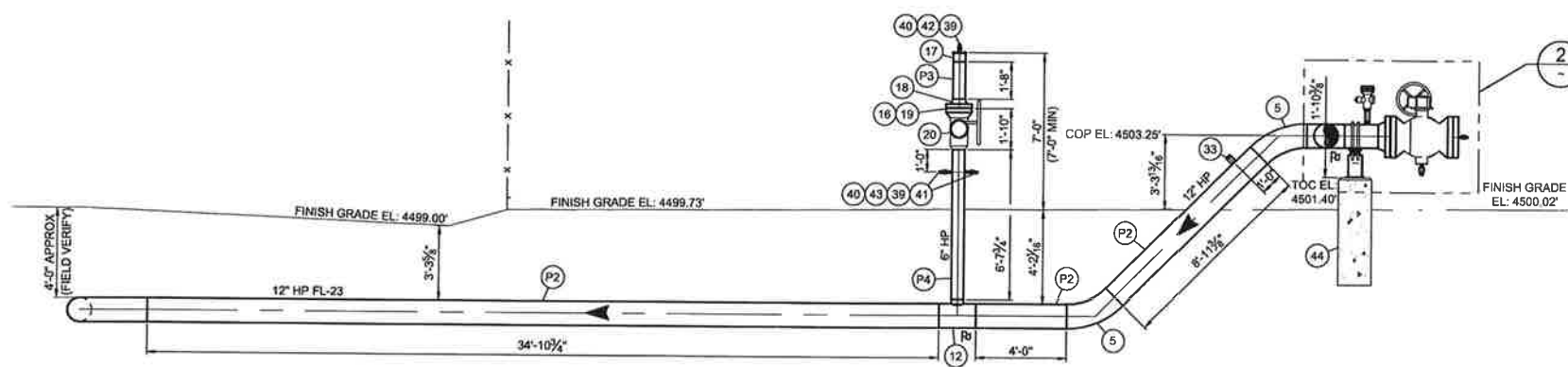
PLAN VIEW
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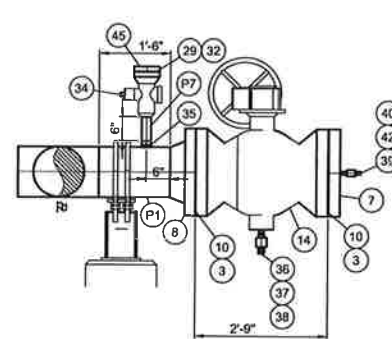
DETAIL 1
SCALE: 1/8" = 1'-0"

ISSUED FOR
CONSTRUCTION

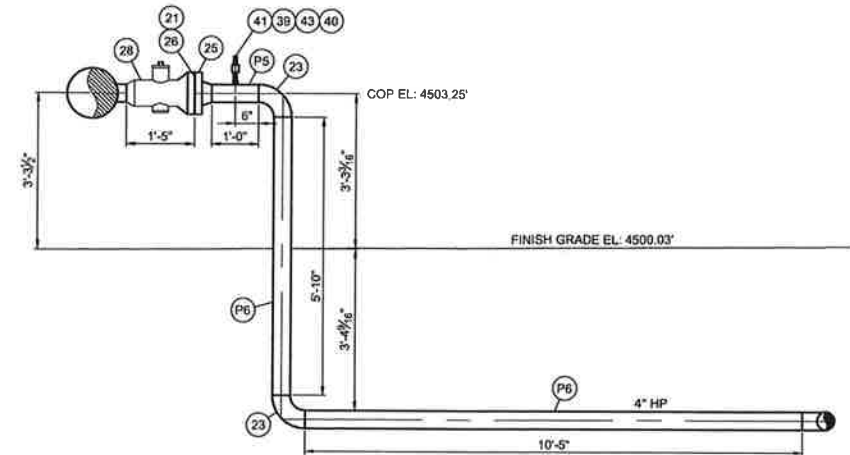
REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD		 DOMINION ENERGY UTAH SECTION: 4 T11N R 1E ELEVATION: 4500' LAT: 41.7234 LONG: -111.8428 SCALE: AS NOTED	LINE NUMBER: FL-23		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: N. LOPEZ		FACILITY: LOGAN ILI FACILITY & MAINLINE VALVE ASSEMBLY		
DE-STD-END-PIP-008	1	STANDARD 12"x16" RECEIVER BARREL	83290.23	INSTALL NEW FACILITY WITH 12"x16" RECEIVER	0	ISSUED FOR CONSTRUCTION	9/10/2020	NRL	IAT	CHECKED BY: I. TORRES <th>TITLE: 12"x16" RECEIVER</th>		TITLE: 12"x16" RECEIVER		
DE-STD-GEN-CCS-002	0	STANDARD DRAWING - EZ LINE PIPE SUPPORTS								PROJECT ENGR: J. WIERZBICKI <th>DESCRIPTION: PLAN AND DETAIL</th>		DESCRIPTION: PLAN AND DETAIL		
DEU-P-F023-CCS-001	0	SITE AND GRADING								SURVEYOR: B. PARK <th>ADDRESS: 450 SOUTH AND 300 WEST</th>		ADDRESS: 450 SOUTH AND 300 WEST		
										ENGR MNGR: S. MESSERSMITH <td></td>				
										CONSTR MNGR: D. FRANCIS <td></td>				
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											DRAWING NUMBER: DEU-P-F023-PIP-004		SHEET: 2 OF 3	REVISION: 0



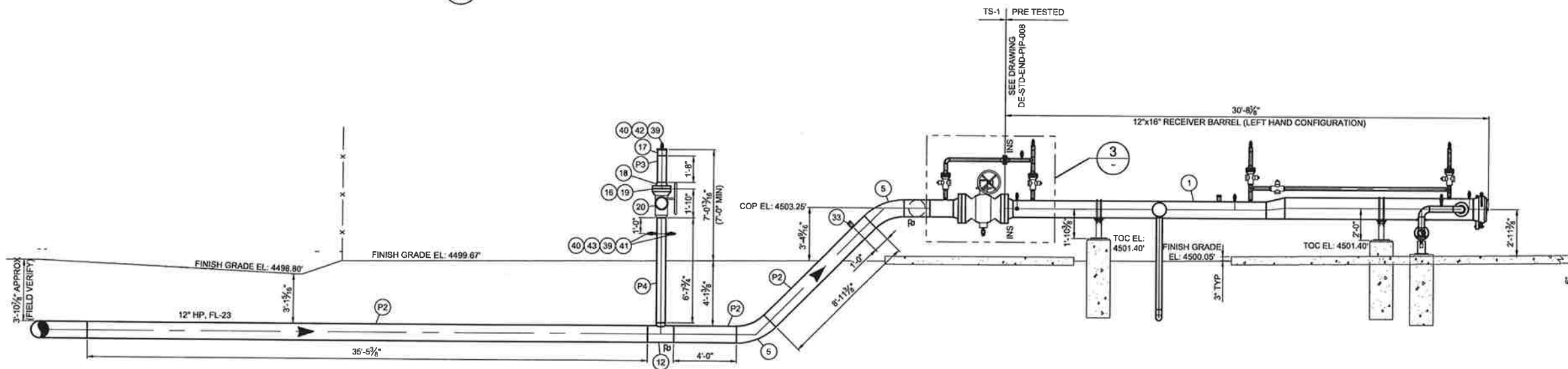
SECTION A
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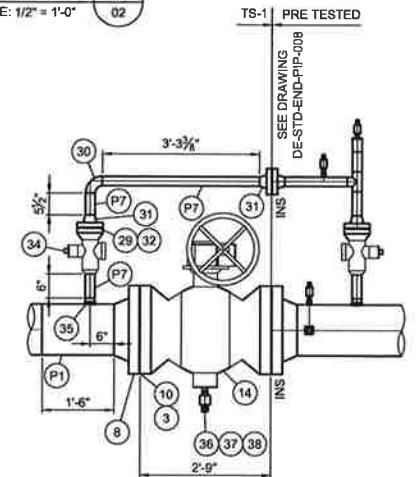
DETAIL 2
SCALE: 1/2" = 1'-0"



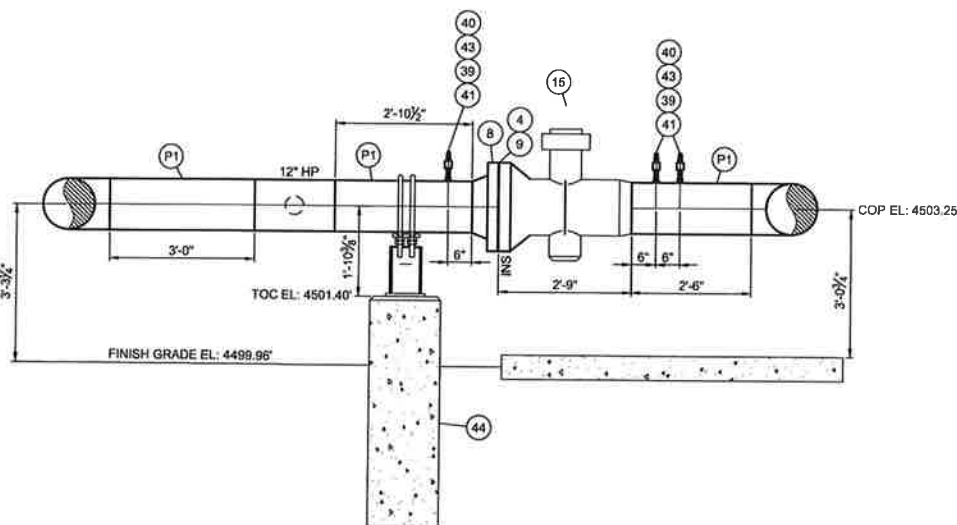
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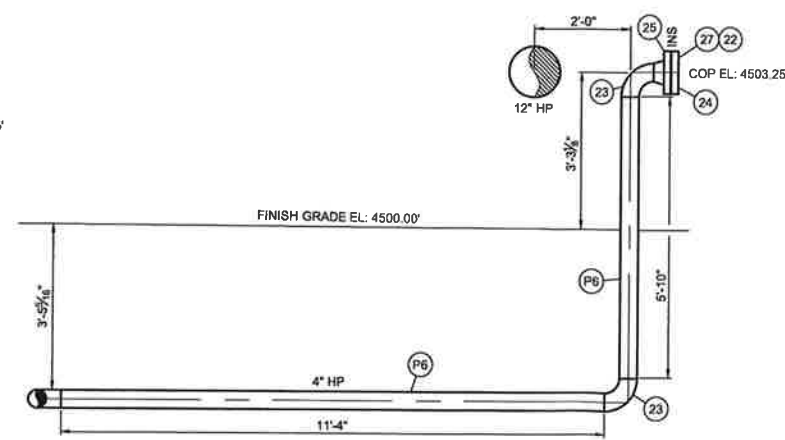
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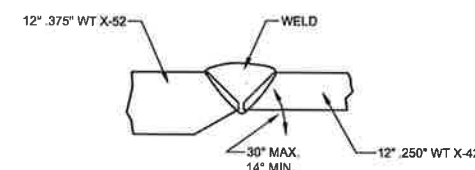
DETAIL 3
SCALE: 1/2" = 1'-0"



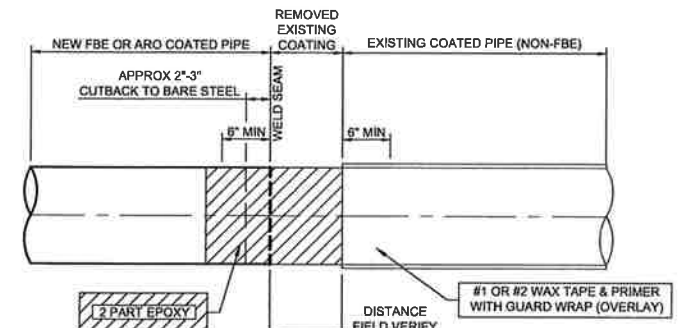
SECTION D
SCALE: 1/2" = 1'-0"



SECTION E
SCALE: 1/2" = 1'-0"



TYPICAL 12" TRANSITION WELD DETAIL 3
SCALE: NONE



COATING DETAIL 4
SCALE: NONE

ISSUED FOR CONSTRUCTION

REFERENCE DRAWINGS			WORK ORDERS		REVISIONS				ENGINEERING RECORD		
DRAWING NUMBER	REV	DRAWING DESCRIPTION	WO NUMBER	DESCRIPTION	NO	DESCRIPTION	DATE	BY	CHECK	DRAWN BY: N. LOPEZ	
DE-STD-END-PIP-008	1	STANDARD 12"x16" RECEIVER BARREL	83290.23	INSTALL NEW FACILITY WITH 12"x16" RECEIVER	0	ISSUED FOR CONSTRUCTION	9/10/2020	NRL	IAT	CHECKED BY: I. TORRES	
DE-STD-GEN-CCS-002	0	STANDARD DRAWING - EZ LINE PIPE SUPPORTS								PROJECT ENGR: J. WIERZBICKI	
DEU-P-F023-CCS-001	0	SITE AND GRADING								SURVEYOR: B. PARK	
										ENGR MNGR: S. MESSERSMITH	
										CONSTR MNGR: D. FRANCIS	



DOMINION ENERGY UTAH
SECTION: 4 T11N R1E
ELEVATION: 4500'
LAT: 41.7234 LONG: -111.8428
SCALE: AS NOTED

LINE NUMBER: FL-23		
FACILITY: LOGAN ILLI FACILITY & MAINLINE VALVE ASSEMBLY		
TITLE: 12"x16" RECEIVER		
DESCRIPTION: SECTIONS AND DETAILS		
ADDRESS: 450 SOUTH AND 300 WEST		
CITY: LOGAN	COUNTY: CACHE	STATE: UTAH
DRAWING NUMBER: DEU-P-F023-PIP-004		SHEET: 3 OF 3
		REVISION: 0

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