GARDNER GROUP

PROMONTORY LIFT STATION & SEWER FORCE MAIN

ISSUED: 10 JULY 2025

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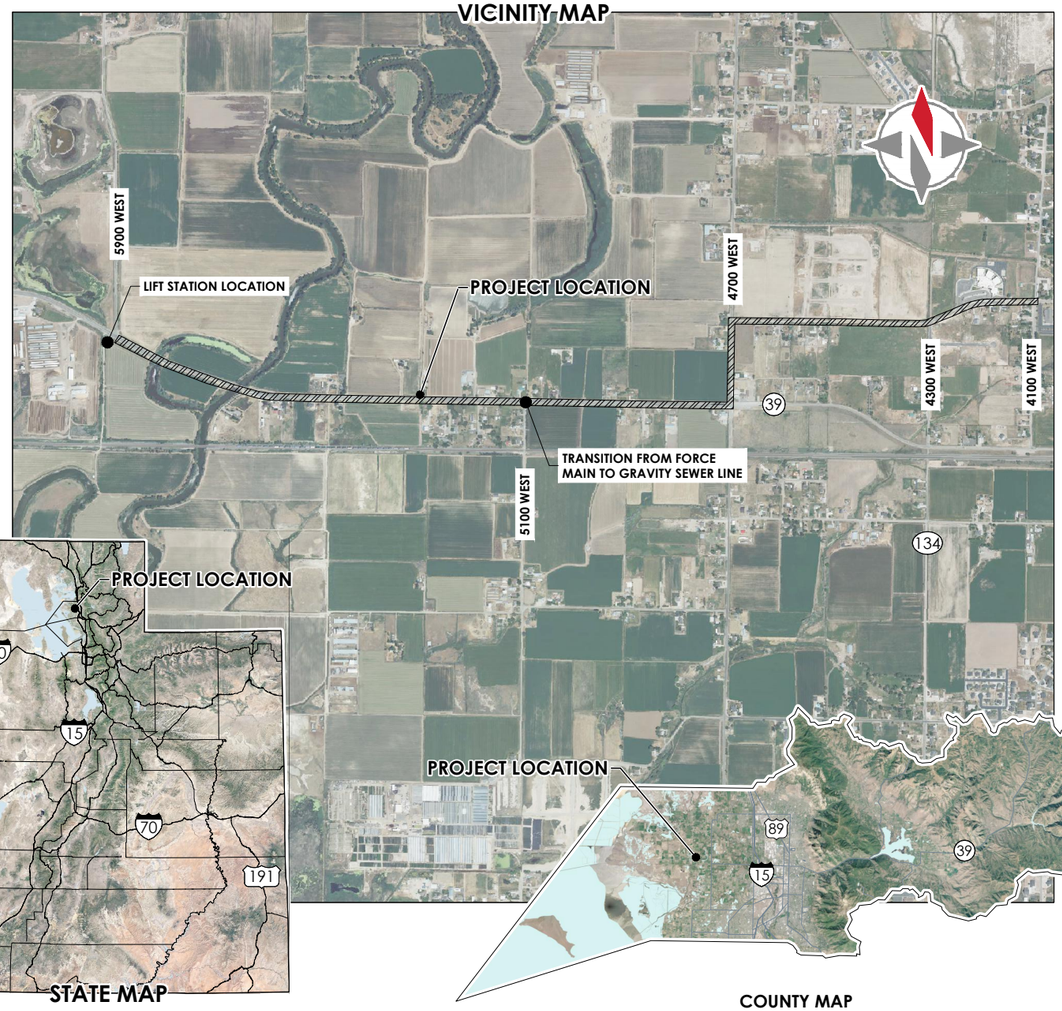
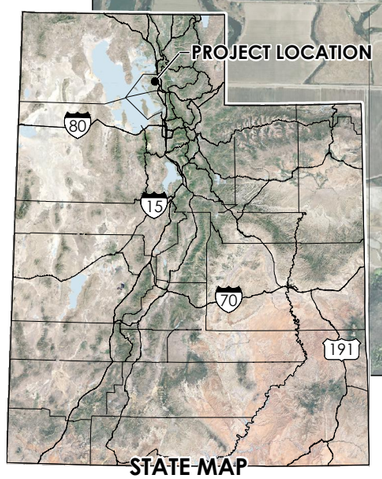
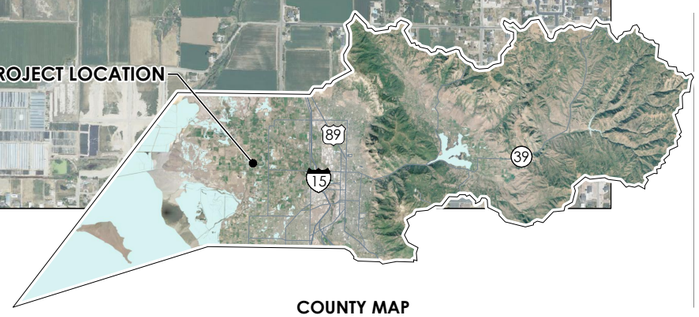
VICINITY MAP





STATE MAP



COUNTY MAP

CONTACT INFORMATION

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REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

LEGAL NOTICE

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

COVER SHEET

1 OF 67

G001

UT83-NF | 01:30 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\01 G001.DWG

THE CONTRACTOR SHALL CAREFULLY READ ALL OF THE NOTES AND SPECIFICATIONS. THE CONTRACTOR SHALL BE SATISFIED AS TO THEIR TRUE MEANING AND INTENT AND SHALL BE RESPONSIBLE FOR COMPLYING WITH EACH.

GENERAL NOTES:

1) ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH ALL JURISDICTIONAL AUTHORITIES.
2) CONTRACTOR SHALL COMPLY WITH THE STANDARDS INDICATED ABOVE AND WITHIN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES, OWNERS, ENGINEERS, AND UTILITY COMPANIES 5 DAYS PRIOR TO A PRE-CONSTRUCTION MEETING:

OWNER: BZI
CONTACT: RYAN OBRAY

ENGINEER: CRS ENGINEERS
4246 RIVERBOAT ROAD, STE 200
SALT LAKE CITY, UTAH 84123
CONTACT: JOSHUA PRETTYMAN

3) IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED 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 SPECIFICATIONS. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
4) WHERE THE PLANS OR SPECIFICATIONS 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 FIRST QUALITY ARE TO BE USED.
5) 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 LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE.
6) THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE, AND HAVE SPECIAL SKILLS ON 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 CONSTRUCTION OF PARTICULAR FACILITIES, WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR PECULIAR SAFETY CONDITIONS, WHICH CONDITIONS COULD BE 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.
7) 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 RIGHTS-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.
8) CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHTS-OF-WAY OR EASEMENTS FROM IRON COUNTY, CEDAR CITY, AND UNION PACIFIC RAILROAD. CONTRACTOR SHALL NOTIFY CITY, COUNTY, AND/OR STATE, 24 HOURS IN ADVANCE OF COMMENCING THE WORK, OR AS REQUIRED BY SAID PERMITS.
9) THE CONTRACTOR SHALL, AT THE TIME OF BIDDING, AND, THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS.
10) 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 RELIED 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 THEIR BID.
11) THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
12) THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION.
13) THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND/OR ENGINEER.
14) THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, SECTION CORNERS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY UNNECESSARY LOSS OR DISTURBANCE.
15) THE CONTRACTOR AGREES THAT:
    A) THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH DAY.
    B) THEY SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN EXPENSE IN A TIMELY MANNER.
    C) THEY SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES.
    D) THEY SHALL 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.
    E) THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND RE-INSPECTIONS AT THEIR OWN EXPENSE.
16) THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE 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 AND GROSS NEGLIGENCE OF THE OWNER OR THE ENGINEER.
17) DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF IRON COUNTY, CEDAR CITY.
18) WHEN CONSTRUCTION STAKING IS REQUIRED THE CONTRACTOR SHALL NOTIFY THE ENGINEER/LAND SURVEYOR 1 WEEK IN ADVANCE OF THE NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND STANDARD STAKING NEEDS, INCLUDING RE-STAKING WILL BE SUBJECT TO A CONTRACTOR CHANGE ORDER AND THE IMPACT COSTS OF WORK PERFORMED
19) FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAYS OR EASEMENTS, THE CONTRACTOR SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES AND PROVIDE THE NECESSARY CONSTRUCTION TRAFFIC CONTROL. CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE NECESSARY REGULATORY AGENCIES, THE NEED FOR ANY TRAFFIC ROUTING PLAN. IF PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE PROPER APPROVALS PRIOR TO BEGINNING CONSTRUCTION.
20) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
21) IF EXISTING FEATURES 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 FEATURES FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING FEATURES SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT.
22) THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL FACILITIES. AS-BUILT DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, 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 DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
23) WORK IN EASEMENT AND/OR RIGHTS-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID EASEMENT AND/OR RIGHTS-OF-WAY.
24) NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED. VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING, AND ANSWER ANY QUESTIONS BEFORE CONSTRUCTION.
25) FURNISH, MAINTAIN, AND RESTORE ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE. CONTACT THE CITY OR COUNTY SURVEYOR FOR MONUMENT LOCATIONS AND CONSTRUCTION DETAILS.
26) PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH CITY, COUNTY, AND STATE REGULATIONS FOR WORKING IN THE PUBLIC WAY.
27) FURNISH ALL MATERIALS TO COMPLETE THE PROJECT.
28) TRAFFIC CONTROL IS TO CONFORM TO THE CURRENT MUTCD AND UDOT STANDARDS.
29) CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS.
30) ALL EXISTING ASPHALT WILL BE SAW CUT IN NEAT STRAIGHT LINES BY THE CONTRACTOR PRIOR TO EXCAVATION.

GENERAL CLEARING AND GRADING NOTES:

1) CLEARING, GRUBBING AND DISPOSAL OF VEGETATIVE MATERIAL NEEDS TO BE IN ACCORDANCE WITH STATE AND COUNTY REGULATIONS, WHICH APPLY TO SOLID WASTE.
2) CONTRACTOR SHALL PERFORM EARTHWORK IN ACCORDANCE WITH IRON COUNTY/CEDAR CITY STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS, EROSION, SEDIMENT, RE-VEGETATION REQUIREMENTS, AND THE SWPP PLAN AS REQUIRED BY THE STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY AND DIVISION OF AIR QUALITY.
3) THE CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS OUTLINED IN THE CONSTRUCTION STANDARDS AND THE RECOMMENDED EARTHWORK SPECIFICATIONS FOUND IN THE GEOTECHNICAL REPORT.
4) SEDIMENTATION BMP'S SHOWN ON THE EROSION CONTROL AND SEDIMENT CONTROL PLANS (STORM WATER POLLUTION PREVENTION PLAN) TO BE INSTALLED WITHIN THE SAME WORKING DAY THE LAND DISTURBANCE OCCURS.
5) DUST CONTROL BMP'S ARE TO BE ON SITE AND IMPLEMENTED AS SOON AS LAND DISTURBANCE OCCURS.
6) THE EXISTING TOPOGRAPHY SHOWN ON THESE PLANS IS BASED ON DRAWINGS AND A TOPOGRAPHIC SURVEY PERFORMED BY PLATT & PLATT INC. IF THE EXISTING GRADE IS DIFFERENT FROM WHAT IS SHOWN ON THE GRADING PLAN, STOP WORK AND CONTACT THE ENGINEER. WORK IS TO REMAIN STOPPED UNTIL THE ENGINEER PROVIDES A WRITTEN NOTICE TO RESUME WORK.
7) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STREETS, STORM DRAINS, CHANNELS, DITCHES, AND SWALES FREE FROM DEBRIS, SOIL, MUD, OR OTHER MATERIAL THAT WOULD CAUSE A PUBLIC SAFETY CONCERN OR VIOLATE ANY CITY, STATE, OR FEDERAL LAWS.
8) BMP'S ARE TO BE IN PLACE AND MAINTAINED UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM IRON COUNTY/CEDAR CITY.
9) IF DISTURBANCE OCCURS OUTSIDE THE LIMITS OF DISTURBANCE, WORK WILL STOP AND REMAIN STOPPED UNTIL A WRITTEN RESPONSE IS RECEIVED FROM THE ENGINEER.
10) THE CONTRACTOR SHALL REMOVE ALL VEGETATION AND DELETERIOUS MATERIALS FROM THE SITE UNLESS NOTED OTHERWISE.
11) NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER.

GENERAL UTILITY NOTES

1) THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY CONTRACTORS WORK FORCE.
2) START AT THE LOW END OF ALL GRAVITY FED LINES AND WORK UPHILL. FAILURE TO COMPLY WITH THIS NOTE SHALL RELEASE THE CIVIL ENGINEER OF ALL LIABILITY.
3) CONTRACTOR SHALL LAYOUT AND POTHOLE FOR ALL POTENTIAL CONFLICTS WITH UTILITY LINES ON OR OFF SITE AS REQUIRED PRIOR TO ANY CONSTRUCTION.
4) ALL DIMENSIONS AND GRADES OF EXISTING STORM DRAIN PIPES, BOX CULVERTS, STRUCTURES, ETC. SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5) THESE PLANS SHOW THE LOCATION OF POWER, NATURAL GAS, AND COMMUNICATIONS UTILITIES, BUT ARE NOT DESIGN DRAWINGS FOR THE RELOCATION OR REMOVAL OF EXISTING DRY UTILITIES, NOR FOR ANY NEW DRY UTILITY STUBS. CONTRACTOR IS TO SUBMIT SITE PLAN TO DRY UTILITIES FOR DESIGN OF SERVICE CONNECTIONS TO BUILDING. ACTUAL CONSTRUCTION OF SAID SERVICES TO BE DONE BY RESPECTIVE UTILITY PROVIDERS.
6) VERIFY DEPTHS OF UTILITIES IN THE FIELD BY POT HOLING A MINIMUM OF 300 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POTHOLE UTILITIES THE CONTRACTOR WILL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER OR ENGINEER.
7) ALL DIMENSIONS, GRADES, AND UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
8) NO CHANGE IN DESIGN LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.
9) ALL EXISTING MANHOLES, WATER VALVES, CLEAN OUTS, ETC., ARE TO BE RAISED OR LOWERED TO GRADE.

UPRR GENERAL CONSTRUCTION REQUIREMENTS:

1) ALL WORK WITHIN 25' OF TRACK, OVER TRACK, OR WITH POTENTIAL TO FOUL TRACK REQUIRES UPRR FLAGMAN TO BE ON SITE.
2) ALL EQUIPMENT, CONSTRUCTION MATERIALS, AND PERSONNEL SHALL REMAIN OUTSIDE THE MINIMUM CONSTRUCTION CLEARANCE ENVELOPE, EXCEPT WHEN WITHIN PRE-DETERMINED TRACK CURFEWS.
3) ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF THE TRACK CENTERLINE AND SECURE ALL EQUIPMENT WITHIN 50 FEET DURING THE APPROACH AND PASSAGE OF A TRAIN.
4) EQUIPMENT SHALL NOT BE SUPPORTED BY THE TRACK BALLAST, SUB-BALLAST, TIES, OR RAILS AT ANY TIME.
5) STORAGE AND STAGING AREAS ARE PROHIBITED WITHIN UPRR RIGHT OF WAY, EXCEPT WITHIN PERMITTED ZONES SUCH AS EASEMENTS.
6) TEMPORARY TRACK CROSSINGS MUST BE APPROVED BY UPRR'S LOCAL OPERATING UNIT AND UPRR MANAGER OF PUBLIC PROJECTS PRIOR TO START OF CONSTRUCTION.
7) TRACK CROSSINGS AND USE OF UPRR ACCESS ROADS/HAUL ROADS MUST BE COORDINATED WITH UPRR'S LOCAL MANAGER OF TRACK MAINTENANCE (AND YARD MASTER, IF WITHIN YARD LIMITS).
8) TEMPORARY DRAINAGE STRUCTURES AND/OR BMPS SHALL NOT DIRECT STORMWATER TOWARD UPRR TRACKS OR ACCESS ROADS.
9) UNATTENDED EXCAVATIONS WITHIN UPRR RIGHT OF WAY SHALL BE PROPERLY SECURED BY FENCING AND/OR COVERING(S) PER OSHA REQUIREMENTS.
10) FOR ANY CONSTRUCTION THAT INCLUDES HEAVY EQUIPMENT OR EXCAVATION, ALL UTILITIES WITHIN UPRR RIGHT OF WAY MUST BE IDENTIFIED AND MARKED PRIOR TO START OF CONSTRUCTION. UPRR CALL BEFORE YOU DIG: UP.COM/CBUD

ABBREVIATIONS

APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AWWA	AMERICAN WATER WORKS ASSOCIATION
BF	BLIND FLANGE
BLDG	BUILDING
CHD	CHORD LENGTH
C TO C	CENTER TO CENTER
CB	CHORD BEARING
CI	CAST IRON
CL	CLASS
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
DI	DUCTILE IRON
DIM	DIMENSION
E	EAST
EA	EDGE OF ASPHALT
EG	EXISTING GRADE
EL	ELEVATION
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EW	EACH WAY
EX	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FLG	FLANGE
FT	FEET
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
IR	IRON ROD
IRR	IRRIGATION
LT	LEFT
L	LENGTH
LBS	POUNDS
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
MEG	MATCH EXISTING GRADE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
PE	PLAIN END
PG	PAGE
PI	POINT OF INTERSECTION
PJ	PUSH-ON JOINT
DI	DUCTILE IRON
PSF	POUNDS PER FOOT
PSI	POUNDS PER SQUARE INCH
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RT	RIGHT
RJ	RESTRAINED JOINT
S	SOUTH
SEC	SECTION
SS	SANITARY SEWER
STA	STATION
T	TOP
TB	THRUST BLOCK
TBA	TO BE ABANDONED
TBC	TOP BACK CURB
TC	TOP OF CONCRETE
TYP	TYPICAL
UDOT	UTAH DEPARTMENT OF TRANSPORTATION
UPRR	UNION PACIFIC RAIL ROAD
VERT	VERTICAL
W	WATER
W	WEST
W/	WITH
WWF	WELDED WIRE FABRIC

CONTACT INFORMATION

Answers to Infrastructure®
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REVISIONS

1	JAP	7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

CIVIL NOTES
2 OF 67
G002

BUILDING CODE:

1. 2021 INTERNATIONAL BUILDING CODE AND STANDARDS REFERENCED THEREIN, AND ANY OTHER CODES OR RULES ADOPTED BY THE STATE OF UTAH.

LOADS:

1. ALL GRAVITY AND LATERAL LOADS FOR THE BUILDING ARE AS FOLLOWS:
   - 1.1. GROUND SNOW LOAD: 43 PSF
   - 1.2. ROOF SNOW LOAD: 30 PSF
   - 1.3. ROOF DEAD LOAD: 15 PSF
   - 1.4. FLOOR DEAD LOAD: 10 PSF
   - 1.5. FLOOR LIVE LOAD: 50 PSF
   - 1.6.

FOUNDATIONS:

1. A GEOTECHNICAL REPORT FOR THIS SITE HAS BEEN PREPARED BY SPEEDIE AND ASSOCIATES. THE REPORT REFERENCED IS SPEEDIE AND ASSOCIATES PROJECT NUMBER 160809SA.
2. ISOLATED AND CONTINUOUS FOOTINGS ARE TO BE PLACED ON COMPACTED SUBGRADE SOILS A MINIMUM OF 18 INCHES BELOW FINISHED GRADE AS RECOMMENDED IN THE GEOTECHNICAL REPORT.
3. DESIGN BEARING PRESSURE IS 1500 PSF
4. THE CONTRACTOR IS TO BE FAMILIAR WITH ALL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, PRIOR TO WORK COMMENCING. ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ARE TO BE FOLLOWED.
5. THE GEOTECHNICAL ENGINEER IS TO VISUALLY VERIFY THAT THE RECOMMENDATIONS THE GEOTECHNICAL REPORT ARE BEING FOLLOWED PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE:

1. CONCRETE FOR FOOTINGS IS TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
2. CONCRETE USED IN SLABS ON GRADE IS TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.

GENERAL:

1. ALL CAST IN PLACE CONCRETE CONSTRUCTION IS TO CONFORM TO ACI 318 LATEST EDITION
2. ALL CONCRETE IS TO BE MECHANICALLY VIBRATED WHEN PLACED UNLESS NOTED OTHERWISE.
3. ADMIXTURES CONTAINING CHLORIDES ARE NOT TO BE USED.
4. ADMIXTURES ARE NOT PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
5. CONCRETE TEST DATA IS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH ACI 318 CHAPTER 5.

SLABS ON GRADE:

1. CONCRETE SLUMP IS NOT TO EXCEED 5 INCHES.
2. NOMINAL MAXIMUM AGGREGATE SIZE IS NOT TO BE LESS THAN $\frac{3}{4}$ INCH NOR MORE THAN $\frac{1}{3}$ THE DEPTH OF THE SLAB.
3. SLABS ARE TO BE PLACED ON WELL GRADED ENGINEERED FILL THAT IS COMPACTED TO 95% MAXIMUM DRY DENSITY.
4. SLABS ON GRADE ARE TO BE VIBRATED ONLY AT TRENCHES, FLOOR DUCTS, TURNDOWNS, OR OTHER AREAS THICKER THAN 8 INCHES.
5. CONTROL JOINTS ARE TO BE SAW CUT AFTER THE SLAB HAS CURED AND SPACED AT A MAXIMUM OF 15 FEET ON CENTER IN EACH DIRECTION.
6. FILL CONTROL JOINTS WITH FLEXIBLE, SILICONE BASED JOINT FILLER.
7. A 6 MIL VAPOR BARRIER IS TO BE PLACED OVER THE SUBGRADE AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

REINFORCING:

1. ALL CONCRETE REINFORCEMENT IS TO BE GRADE 60 STEEL DEFORMED BARS.
2. CONCRETE COVER OVER REINFORCEMENT IS TO BE AS FOLLOWS:
   - 2.1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   - 2.2. EXPOSED TO EARTH OR WEATHER
     - 2.2.1. #6 OR LARGER: 2"
     - 2.2.2. #5 AND SMALLER: $1\frac{1}{2}$"
3. CONCRETE COVER IS MEASURED FROM THE EDGE OF THE CONCRETE TO THE EDGE OF THE REINFORCING BAR.
4. ALL REINFORCING IS TO BE CHAIRED TO ENSURE PROPER CLEARANCES.
5. FIELD BENDING OF REINFORCEMENT IS LIMITED TO #5 REBAR AND SMALLER.

LAP SPLICES IN CONCRETE:

1. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY THE ENGINEER.
2. PROVIDE BENT CORNER BARS TO MATCH HORIZONTAL REBAR. LAP AT EACH CORNER AND INTERSECTION.
3. REINFORCEMENT SPACING SHOWN ON THE PLANS ARE MAXIMUM SPACING.
4. VERTICAL REINFORCEMENT IN THE FOUNDATION IS TO BE PLACED WITH A STANDARD 90 DEGREE HOOK.
5. PLACING REINFORCEMENT INTO WET CONCRETE IS NOT ALLOWED. ALL REINFORCEMENT MUST BE TIED PRIOR TO CONCRETE PLACEMENT.
6. LAP SPLICES ARE TO BE CLASS "B" TENSION LAP SPLICES PER ACI 318.

ANCHORING TO CONCRETE:

ANCHOR BOLTS:

1. ALL STEEL BASE PLATES ARE TO BE ANCHORED TO CONCRETE USING ASTM F1554 GRADE 36 ANCHOR BOLTS OF THE SIZE AND LENGTH SPECIFIED IN THE PLANS.
2. ANCHOR BOLTS INCLUDE HOOKED, HEADED AND THREADED AND NUTTED ANCHORS.
3. ALL ANCHOR BOLTS ARE TO BE INSTALLED WITH STEEL WASHERS AT OVERSIZED ROUND HOLES USING SNUG TIGHT INSTALLATION UNLESS NOTED OTHERWISE.

POST INSTALLED ANCHORS:

1. POST INSTALLED ANCHORS ARE NOT TO BE USED UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED BY THE ENGINEER.
2. POST INSTALLED ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE HAS REACHED ITS DESIGN STRENGTH AND IS FULLY CURED FOR A MINIMUM OF 21 DAYS.

SPECIAL INSPECTION - STRUCTURAL ONLY:

FOR SPECIAL STRUCTURAL INSPECTIONS:
CONTACT SPEEDIE AND ASSOCIATES AT (602) 997-6391 PRIOR TO CONSTRUCTION

1. SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION.
2. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 109 OF THE INTERNATIONAL BUILDING CODE.
3. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE FOLLOWING:

MASONRY:

GENERAL:

1. ALL CONSTRUCTION SHALL BE PER ACI 530/530.1, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES.
2. CONCRETE MASONRY ASSEMBLY IS TO BE PLACED IN A RUNNING BOND PATTERN.
3. MASONRY NET COMPRESSIVE STRENGTH F'm IS TO BE 1500 PSI
4. MASONRY CONSTRUCTION IS TO BE OF MEDIUM WEIGHT, GRADE N HOLLOW CONCRETE MASONRY UNITS PAR ASTM C90 WITH A NET COMPRESSIVE STRENGTH OF 1900 PSI.
5. MORTAR IS TO BE TYPE S PER ASTM C270 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI.
6. GROUT IS TO BE PER ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
7. ACCEPTABLE METHODS FOR DETERMINING COMPRESSIVE STRENGTH FOR EACH CONCRETE MASONRY ASSEMBLY ARE THE UNIT STRENGTH METHOD OR THE PRISM METHOD PER IBC 2105.2.2.
8. MECHANICALLY VIBRATE GROUT IMMEDIATELY AFTER POURING AND AGAIN 5 TO 10 MINUTES LATER.
9. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 5'-0" IN BLOCK WALLS.
10. MAXIMUM GROUT LIFT IS 6'-0".
11. FILL CELLS SOLIDLY WITH GROUT IN LIFTS AND STOP POURS 1 $\frac{1}{2}$" BELOW THE TOP OF A COURSE TO FORM A KEY AT POUR POINTS.
12. INSTALL CONTROL JOINTS AT 10 FEET ON CENTER. CONTROL JOINTS CANNOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS OR WITHIN 2 FEET OF CONCENTRATED BEARING POINTS, JAMBS, OR OVER OPENINGS.
13. ALL MASONRY BELOW FINISHED GROUND IS TO BE GROUTED SOLID.

VERTICAL REINFORCING:

1. PLACE A #5 VERTICAL REBAR IN A FULLY GROUTED CELL AT ALL CORNERS, INTERSECTIONS, ENDS, BEARING POINTS, JAMBS AND EACH SIDE OF CONTROL JOINTS.
2. VERTICAL REBAR IS TO BE PLACED NO FURTHER APART THAN 48" ON CENTER.
3. VERTICAL REINFORCEMENT IS TO BE TIED TO FOOTING REBAR.

HORIZONTAL REINFORCING:

1. INSTALL (2) #5 HORIZONTAL REBAR IN 8" DEEP GROUTED CONTINUOUS BOND BEAMS AT TOP OF PARAPETS AND FREESTANDING WALLS.
2. BOND BEAMS ARE TO BE PLACED AT 48" ON CENTER MEASURED VERTICALLY FROM THE TOP OF THE FOOTING.
3. USE #9 SIZE WIRE OR EQUIVALENT LADDER MESH JOINT REINFORCEMENT AT ALL BOND BEAMS.

LAP SPLICES:

1. LAP SPLICES FOR VERTICAL AND HORIZONTAL REINFORCING ARE TO BE PER THE LAP SPLICE SCHEDULE SHOWN ON THIS SHEET.
2. SPLICES ARE NOT TO OCCUR WITHIN 8' OF CONTROL JOINTS.
3. ALL HORIZONTAL LADDER TYPE MESH JOINT REINFORCEMENT IS TO BE LAPPED A DISTANCE OF 12" AS A MINIMUM.

CONCRETE CONSTRUCTION

1. CONCRETE
   - 1.1. DURING THE TAKING OF TEST SPECIMENS.
   - 1.2. CONTINUOUS INSPECTION DURING THE PLACEMENT OF ALL REINFORCED CONCRETE, UNLESS NOTED OTHERWISE
   - 1.3. CONTINUOUS INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS. (EXCEPTION: NO INSPECTION IS REQUIRED FOR PLACEMENT OF CONCRETE AROUND FOUNDATION ANCHOR BOLTS.)
   - 1.4. NO INSPECTION IS REQUIRED FOR PLACEMENT OF SLAB ON GRADE CONCRETE. INSPECTION OF SLAB ON GRADE REINFORCING IS REQUIRED PER "REINFORCING STEEL" SECTION BELOW.
2. REINFORCING STEEL - INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE FOR THE FOLLOWING:
   - 2.1. REINFORCING FOR ALL CONCRETE REQUIRED TO HAVE INSPECTION NOTED ABOVE.
   - 2.2. REINFORCING FOR CONCRETE FOUNDATIONS.
   - 2.3. REINFORCING FOR SLABS ON GRADE.
   - 2.4. REINFORCING FOR ALL MASONRY REQUIRED TO HAVE INSPECTION NOTED BELOW.

STEEL CONSTRUCTION

1. WELDING
   - 1.1. VERIFICATION OF VALID WELDER'S CERTIFICATES
   - 1.2. PERIODIC VISUAL INSPECTION OF ALL SHOP AND FIELD WELDS.
   - 1.3. ALL STRUCTURAL STEEL FABRICATORS SHALL EMPLOY AN AWS CERTIFIED INDEPENDENT TESTING AGENCY TO PROVIDE SHOP WELD INSPECTIONS PER CODE. INSPECTION REPORTS AND REQUIRED DOCUMENTATION SHALL BE SUBMITTED TO ENGINEER OF RECORD PRIOR TO STEEL INSTALLATION. (EXCEPTION: NO SHOP INSPECTION IS REQUIRED IF THE FABRICATOR IS ON THE CITY OF PHOENIX APPROVED STEEL FABRICATOR LIST.
   - 1.4. CONTINUOUS INSPECTION OF ALL MULTIPASS FILLET WELDS, SINGLE PASS FILLET WELDS LARGER THAN $\frac{5}{16}$", COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS, PLUG AND SLOT WELDS.
   - 1.5. NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS BY AN AWS CERTIFIED INDEPENDENT TESTING AGENCY AT THE CONTRACTORS EXPENSE.
2. STEEL FRAMES: VERIFICATION OF BRACING, STIFFENING, MEMBER LOCATIONS, AND PROPER JOINT DETAIL APPLICATION AT ALL STEEL FRAME CONNECTIONS.
3. HIGH STRENGTH BOLTING:
   - 3.1. VERIFICATION OF SNUG TIGHT BOLT INSTALLATION FOR ASTM A325N BOLTS.
   - 3.2. VERIFICATION OF PROPER BOLT INSTALLATION AND PRETENSIONING FOR ASTM A325SC BOLTS.
   - 3.3. OBSERVATION OF PREINSTALLATION TESTING AND PRETENSIONING CALIBRATION PROCEDURES FOR ASTM A325SC BOLTS.

MASONRY CONSTRUCTION

1. STRUCTURAL MASONRY
   - 1.1. DURING PREPARATION OF PRISMS.
   - 1.2. INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE DELIVERY OF GROUT TO THE JOBSITE.
   - 1.3. CONTINUOUS INSPECTION DURING PLACEMENT OF GROUT.
   - 1.4. CLEANOUTS PRIOR TO CLOSING.

SPECIAL CASES

1. EXPANSION, EPOXY, ADHESIVE, AND SCREW ANCHORS: DURING THE PLACEMENT OF ALL ANCHORS SHOWN ON STRUCTURAL DRAWINGS. ADDITIONAL INSPECTIONS REQUIRED FOR REPAIR DETAILS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
   - 1.1. INSPECTION OF HOLE DIAMETER, HOLE DEPTH AND DRILL BIT CONFORMANCE.
   - 1.2. INSPECTION OF HOLE CLEANING WITH WIRE BRUSH AND COMPRESSED AIR.
   - 1.3. INSPECTION OF ANCHOR INSTALLATION USING SPECIFIED PRODUCT AND MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
   - 1.4. INSPECTION OF EXPANSION ANCHORS SHALL INCLUDE THE VERIFICATION OF THE TIGHTENING TORQUE THAT IS SPECIFIED BY THE ANCHOR MANUFACTURER.

SPECIAL INSPECTIONS - NON STRUCTURAL (PERFORMED BY OTHERS)

GEOTECHNICAL INSPECTIONS - SOILS

1. PERIODIC VERIFICATION THAT MATERIALS BELOW GRADE ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
2. PERIODIC VERIFICATION THAT EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
3. PERFORM PERIODIC CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
4. CONTINUOUS VERIFICATION THAT USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
5. PERIODIC VERIFICATION PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
2. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACT VIA WRITTEN REQUEST FOR INFORMATION (RFI).
3. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
4. CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS AND/OR OTHER EQUIPMENT OPERATED BY THE CONTRACTOR'S PERSONNEL AS REQUIRED FOR SAFE OBSERVATIONS. INSPECTOR IS NOT RESPONSIBLE OR AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
5. UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT WILL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISION OF THE CODE.

CLASS B TENSION SPLICE LENGTHS — COMP. BARS

CONC. PSI	f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI		f'c >= 3000 PSI	
LOC. / SIZE	REG.	TOP	REG.	TOP	REG.	TOP	STD. LAP	ENCLOSED W/ SPIRAL TIES
#3	24"	31"	19"	24"	17"	22"	12"	12"
#4	32"	41"	25"	32"	22"	29"	15"	12"
#5	39"	51"	31"	40"	28"	36"	19"	14"
#6	47"	61"	37"	48"	33"	43"	23"	17"
#7	69"	89"	54"	70"	49"	63"	26"	20"
#8	78"	102"	62"	80"	55"	72"	30"	23"
#9	88"	115"	70"	91"	63"	81"	34"	25"
#10	99"	129"	79"	102"	70"	91"	38"	28"
#11	110"	143"	87"	113"	78"	101"	42"	31"

NOTES:

1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. LAP SPLICES ARE TO BE CLASS B TENSION LAP SPLICES PER ACI 318 UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SCHEDULES.
3. THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE

MASONRY LAP SLICE LENGTH

REBAR SIZE	REINFORCEMENT AT CENTER OF WALL			REINFORCEMENT AT FACE OF WALL & BOND BEAMS	
	6" BLOCK	8" BLOCK	12" BLOCK	8" BLOCK	12" BLOCK
#4	26"	26"	26"	32"	32"
#5	40"	32"	32"	50"	50"
#6	N/A	58"	58"	100"	100"
#7	N/A	80"	80"	N/A	135"
#8	N/A	N/A	115"	N/A	189"

NOTES:

1. ALL REINFORCEMENT IS TO BE GRADE 60
2. LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
3. PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
4. DO NOT SPLICE HORIZONTAL BARS WITHIN 8' OF CONTROL JOINTS.
5. LAP LENGTHS HAVE BEEN CALCULATED FOR BOTH WORKING STRESS AND ULTIMATE STRENGTH DESIGN. THE MOST CONSERVATIVE VALUES HAVE BEEN USED.

ABBREVIATIONS

APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
BLDG	BUILDING
C TO C	CENTER TO CENTER
CLR	CLEAR
CO	CLEANOUT
CONC	CONCRETE
DIM	DIMENSION
EG	EXISTING GRADE
EL	ELEVATION
EW	EACH WAY
EX	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FX	FIRE EXTINGUISHER
HORIZ	HORIZONTAL
L	LENGTH
LBS	POUNDS
MAX	MAXIMUM
MIN	MINIMUM
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
SS	SANITARY SEWER
VERT	VERTICAL
W	WATER
W/	WITH
WWF	WELDED WIRE FABRIC

CONTACT INFORMATION

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DESIGN

REGISTERED PROFESSIONAL ENGINEER — JOSHUA PRETTYMAN — No. 9637735-2202 — 11/1/24 — STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

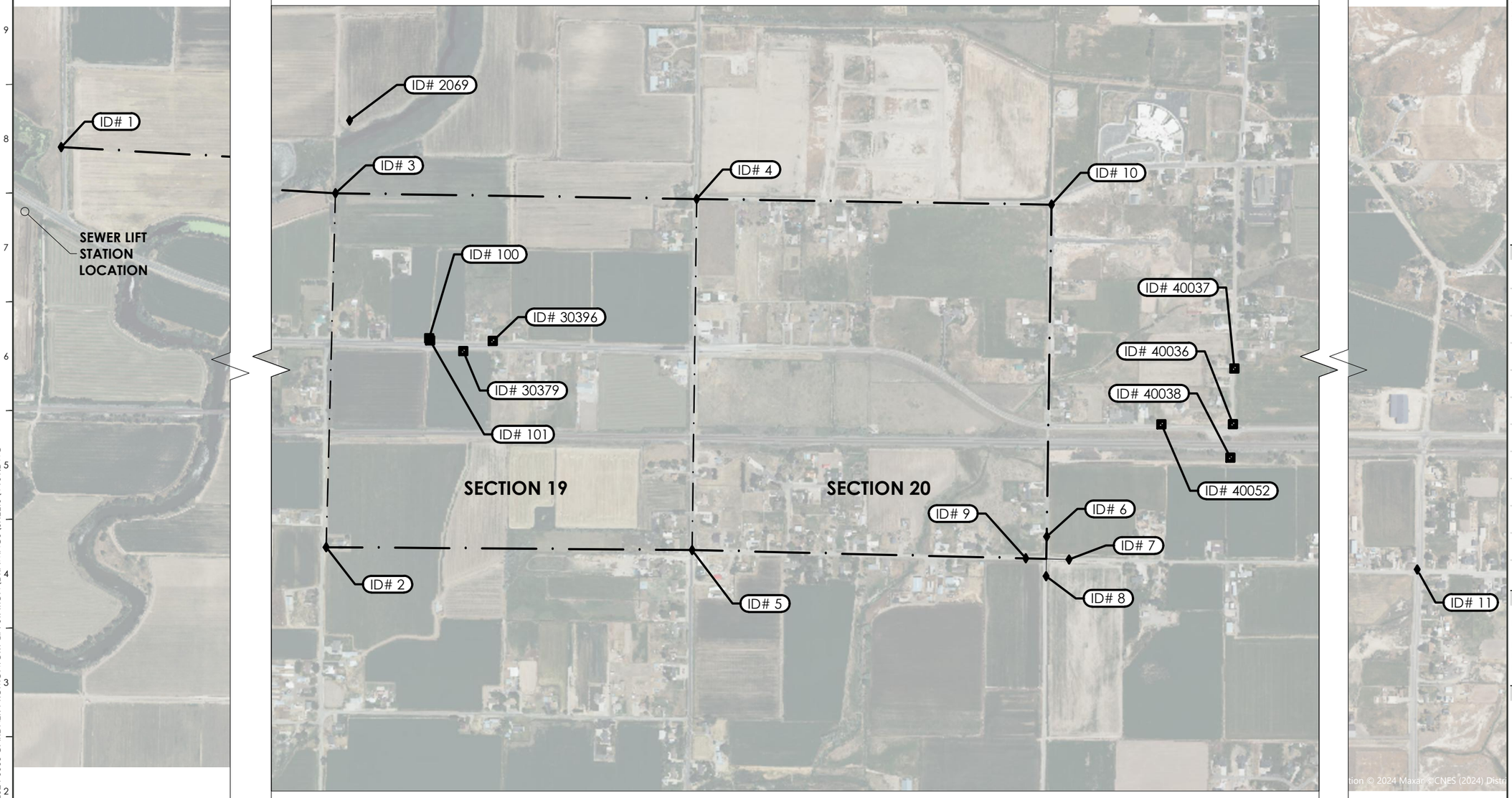
2024-0063
29 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

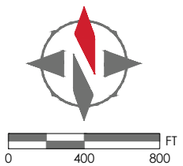
STRUCTURAL NOTES | 3 OF 67 | G003

UT83-NF | 12:48 PM TUESDAY 29 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\01 G001.DWG



POINTS				
ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	3615343.72	1469319.89	4217.02	FND NW COR SEC19
2	3612427.28	1474747.03	4234.27	FND E1/4 SEC 19
3	3615030.24	1474815.34	4236.14	FND NE SEC 19
4	3614987.88	1477474.57	4238.15	FND N1/4 SEC 20
5	3612406.61	1477440.58	4235.42	FND CENTER SEC 20
6	3612505.64	1480050.91	4236.39	FND N REF COR
7	3612337.10	1480215.08	4236.56	FND E REF COR
8	3612214.10	1480046.07	4235.69	FND S REF COR
9	3612346.01	1479897.10	4236.61	FND W REF COR

POINTS				
ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	3614946.22	1480086.46	4237.24	FND NE COR SEC20
11	3612268.26	1485343.74	4239.23	FND E 1/4 SEC 21
100	3613964.36	1475505.33	4240.24	CP 100 RWC GPS BASE
101	3613947.74	1475512.18	4241.10	WTR MH CHECK
30379	3613869.46	1475756.82	4237.70	CP
30396	3613943.62	1475973.10	4237.17	CP
40036	3613333.03	1481421.56	4240.86	40002 VRS CHECK
40037	3613742.19	1481432.20	4239.87	40001 VRS CHECK
40038	3613085.94	1481403.40	4238.66	40003 VRS CHECK
40052	3613330.83	1480895.43	4237.68	FND RWC PINNACLE



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REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
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PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

SURVEY

4 OF 67

V101

UT83-NF | 01:31 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\V101.DWG

POINTS		
ID	NORTHING	EASTING
1	3614825.22	1469049.68
2	3614852.61	1469066.21
3	3614870.79	1469036.11
4	3614843.39	1469019.57

12TH STREET

NEW CONCEPT ROADWAY ALIGNMENT

5900 WEST

NEW PROMONTORY SEWER LIFT STATION

#1
#2
#3
#4

CHAIN LINK FENCE WITH BARBED WIRE PER UDOT STANDARD FG-6 DETAIL

FUTURE PARKING LOT ENTRANCE ROAD

TEMPORARY GRAVEL DRIVEWAY. FUTURE ACCESS WILL BE VIA PARKING LOT (SEE NEXT SHEET)

100' EXISTING 12TH STREET ROW

NOTE: ALL FADED LINEWORK IS CONCEPT GARDNER DEVELOPMENT LAYOUT PLANS

NOTE: ALL FADED LINEWORK IS CONCEPT GARDNER DEVELOPMENT LAYOUT PLANS

0 30 60 FT

CONTACT INFORMATION

Answers to Infrastructure® ENGINEERING & SURVEYING

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Gardner

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

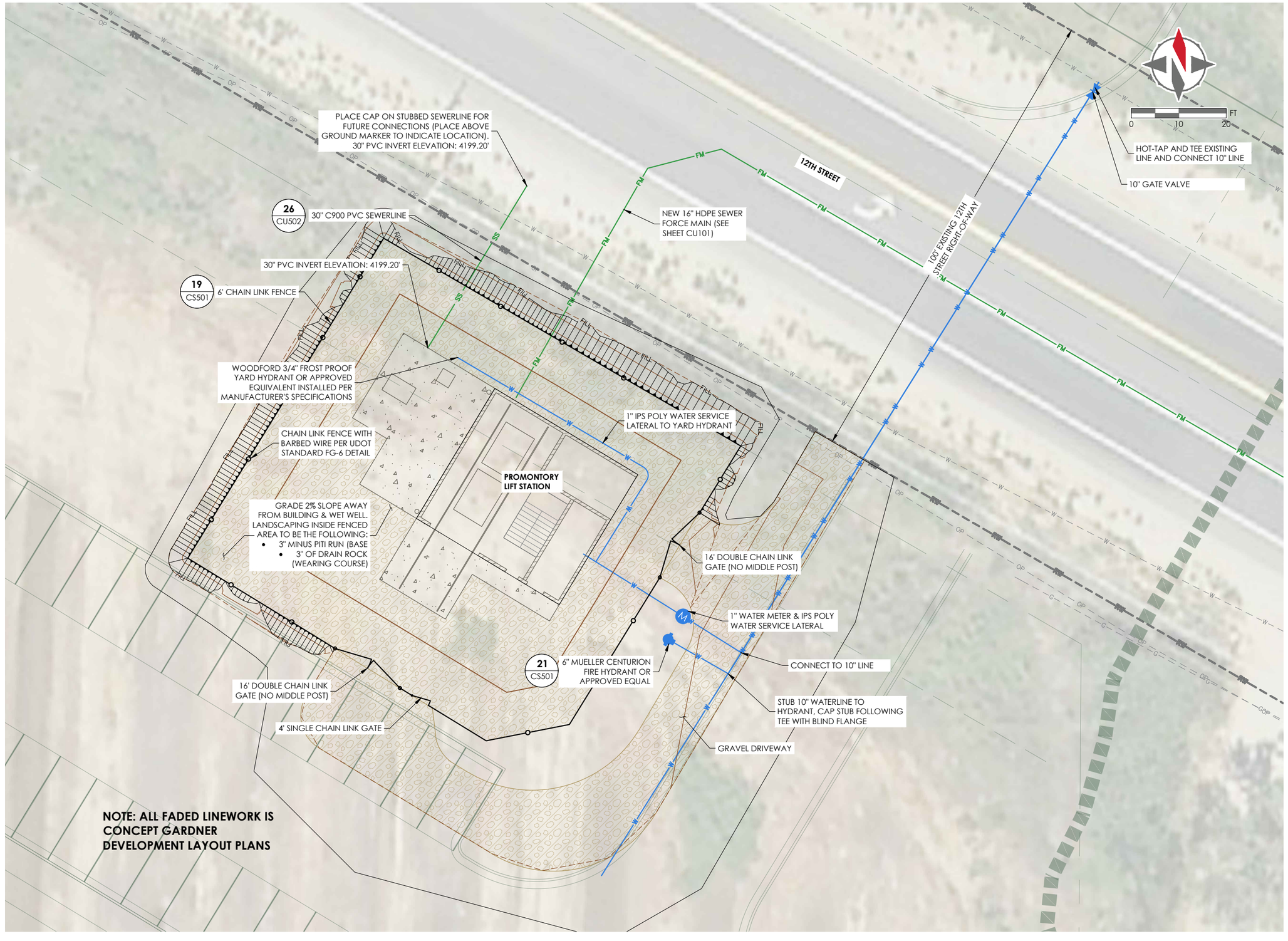
6137 W 900 S OGDEN UT 84404

AREA PLAN

5 OF 67

CS101

UT83-NF | 01:31 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\5 CS101.DWG



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PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

GRADING PLAN

6 OF 67

CS102

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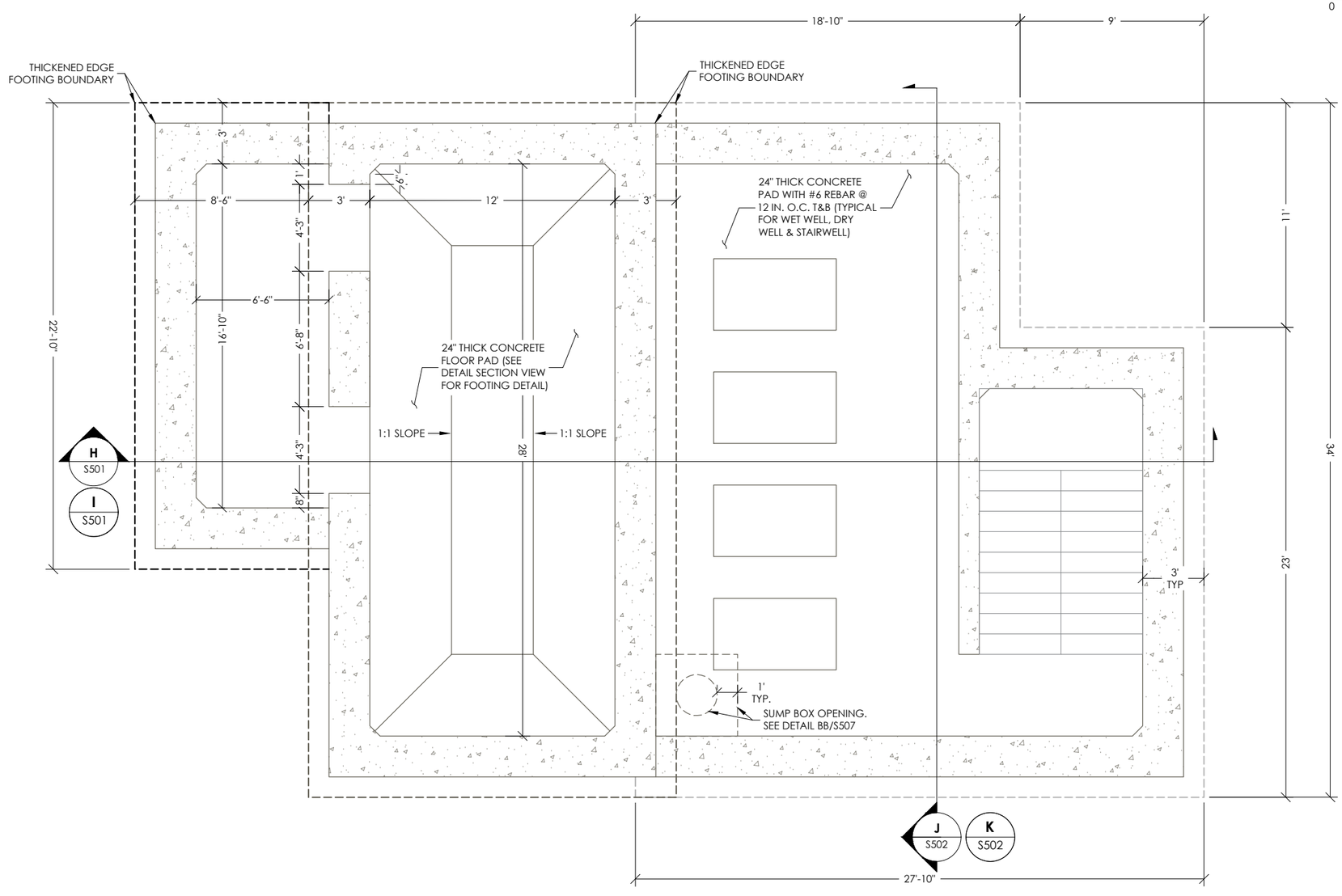

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DESIGN

PROFESSIONAL ENGINEER
07/17/2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

FOOTING & FOUNDATION PLAN

7 OF 67

S101

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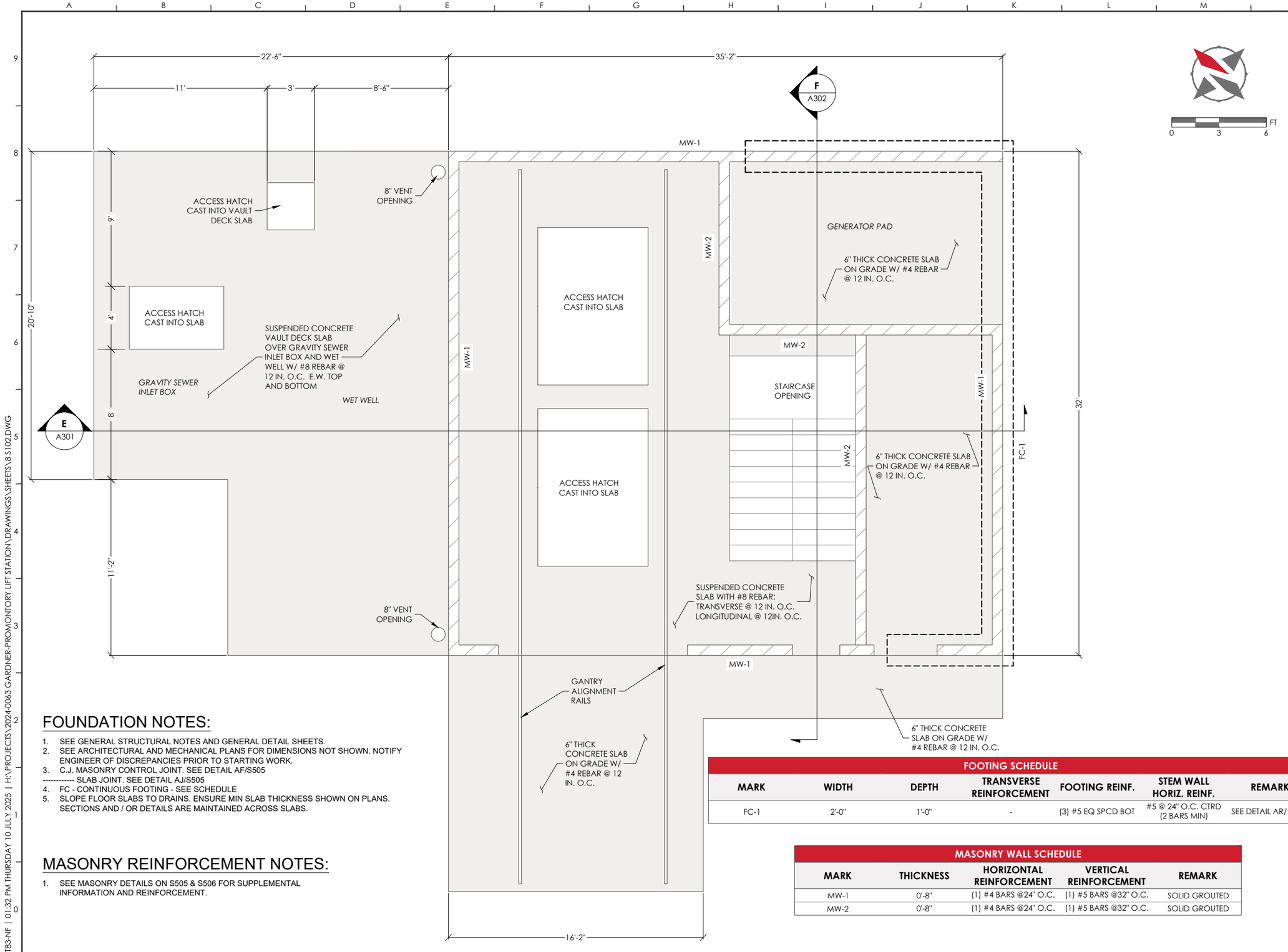

FOUNDATION NOTES:

1. SEE GENERAL STRUCTURAL NOTES AND GENERAL DETAIL SHEETS.
2. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR DIMENSIONS NOT SHOWN. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO STARTING WORK.
3. C.J. MASONRY CONTROL JOINT. SEE DETAIL AF/S505
---------- SLAB JOINT. SEE DETAIL AJ/S505
4. FC - CONTINUOUS FOOTING - SEE SCHEDULE
5. SLOPE FLOOR SLABS TO DRAINS. ENSURE MIN SLAB THICKNESS SHOWN ON PLANS. SECTIONS AND / OR DETAILS ARE MAINTAINED ACROSS SLABS.

MASONRY REINFORCEMENT NOTES:

1. SEE MASONRY DETAILS ON S505 & S506 FOR SUPPLEMENTAL INFORMATION AND REINFORCEMENT.

FOOTING SCHEDULE

MARK	WIDTH	DEPTH	TRANSVERSE REINFORCEMENT	FOOTING REINF.	STEM WALL HORIZ. REINF.	REMARK
FC-1	2'-0"	1'-0"	-	(3) #5 EQ SPCD BOT	#5 @ 24" O.C. CTRD (2 BARS MIN)	SEE DETAIL AR/####

MASONRY WALL SCHEDULE

MARK	THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT	REMARK
MW-1	0'-8"	(1) #4 BARS @24" O.C.	(1) #5 BARS @32" O.C.	SOLID GROUTED
MW-2	0'-8"	(1) #4 BARS @24" O.C.	(1) #5 BARS @32" O.C.	SOLID GROUTED

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KIRK WINEGAR
STATE OF UTAH

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REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

MAIN LEVEL CONCRETE & FOUNDATIONS

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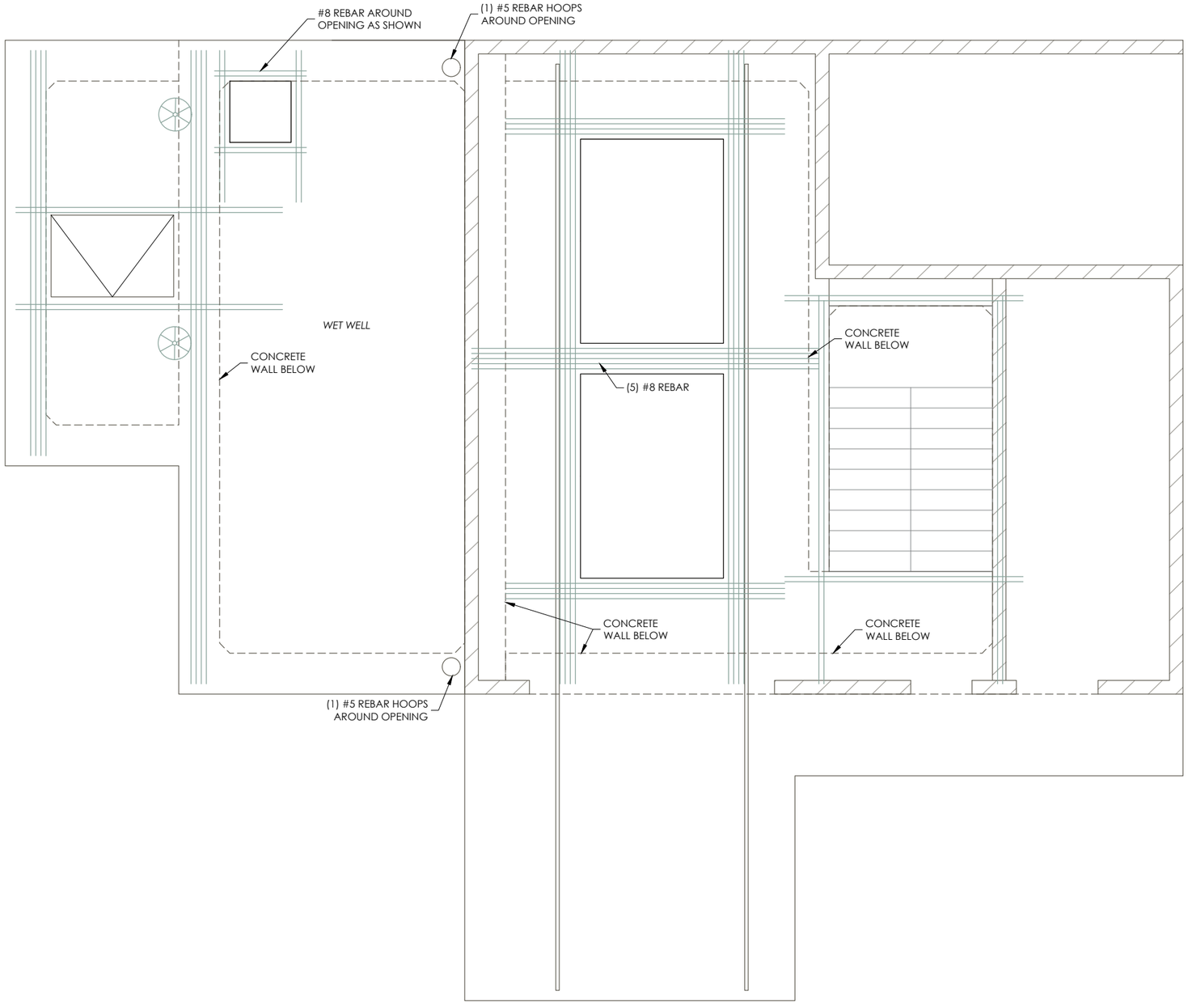

0 3 6 FT

NOTES:

1. TYPICAL REINF. NOT SHOWN FOR CLARITY. SEE S501 FOR TYPICAL TOP SLAB REINF.
2. OPENING DIAGONAL BARS NOT SHOWN FOR CLARITY. SEE AY/S507

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DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

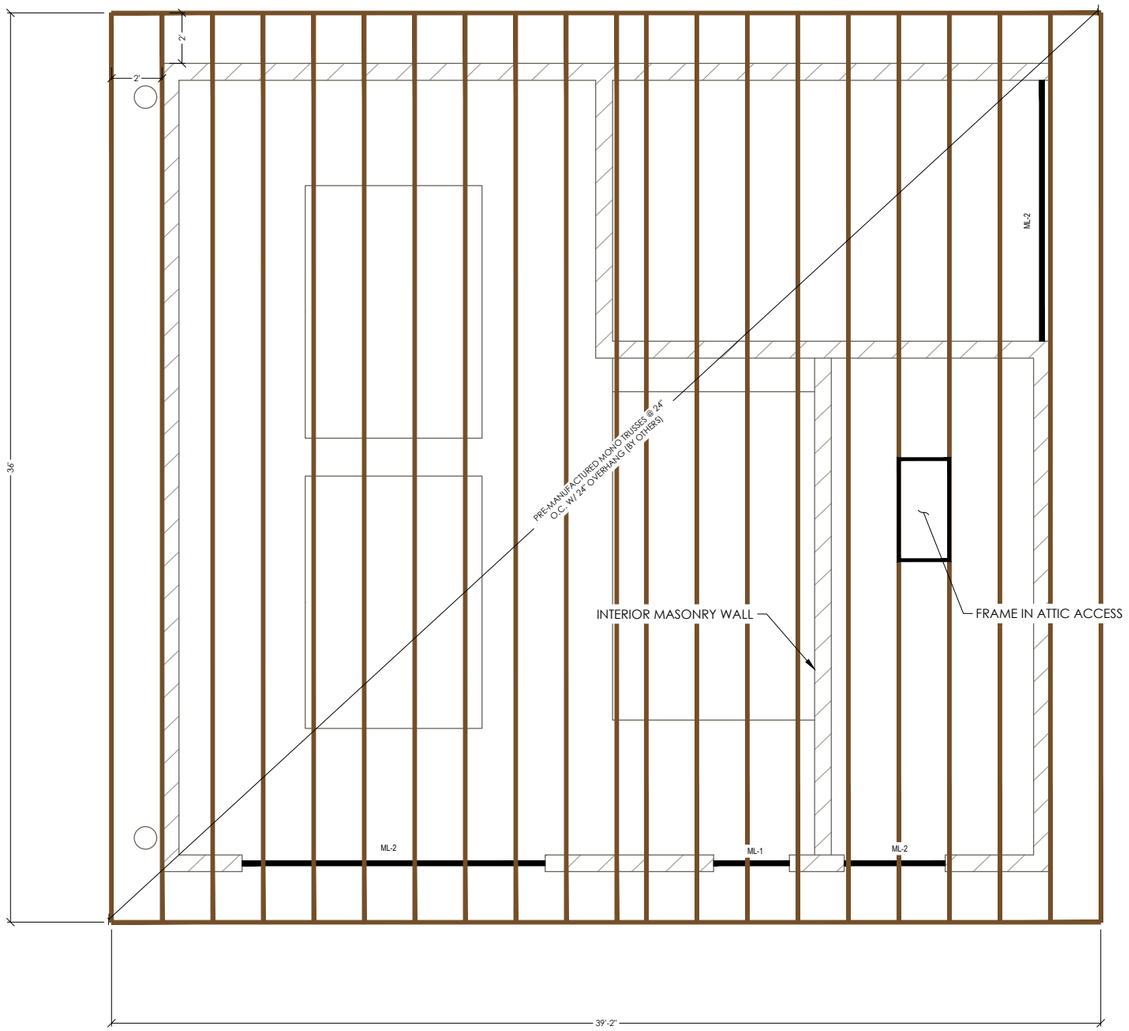
6137 W 900 S OGDEN UT 84404

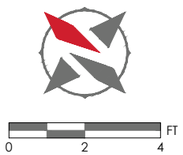
FLOOR FRAMING PLAN

9 OF 67

S103

UT83-NF | 01:32 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\9 S103.DWG





ROOF FRAMING NOTES:

1. SEE GENERAL STRUCTURAL NOTES AND GENERAL DETAIL SHEETS.
2. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR DIMENSIONS NOT SHOWN. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO STARTING WORK.
3. ROOF SHEATHING SHALL BE 5/8" STRUCTURAL 1 OSB W/ 8d NAILS @ 6" O.C. EDGE, 12" O.C. FIELD
4. END TRUSSES SHALL BE DESIGNED TO SUPPORT AN AXIAL CHORD FORCE OF 417 LBS. ALL INTERMEDIATE TRUSSES SHALL BE DESIGN FOR AN AXIAL LOAD OF 210 LBS.
5. ROOFING SHALL BE PRE-MANUFACTURED TRUSSES DESIGNED BY OTHERS.
6. TYPICAL DETAILS SHALL APPLY IN ALL SIMILAR SITUATIONS UNLESS OTHERWISE NOTED.
7. ALL LUMBER NOT PERMANENTLY PROTECTED FROM WEATHERING SHALL BE PRESERVATIVE TREATED OR DECAY RESISTANT. NOTIFY HORROCKS ENGINEERS IF WOOD SPECIES OTHER THAN ORIGINALLY SPECIFIED IS TO BE INSTALLED.

MASONRY WALL SCHEDULE

MARK	DEPTH 'Dv'	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT	REMARK
ML-1	1'-4"	(1) #4 BAR BOTTOM	NONE	SEE DETAIL Z/S504
ML-2	2'-0"	(1) #7 BAR BOTTOM	NONE	SEE DETAIL Z/S504

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07 / 17 / 2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

ROOF FRAMING PLAN

10 OF 67

S104

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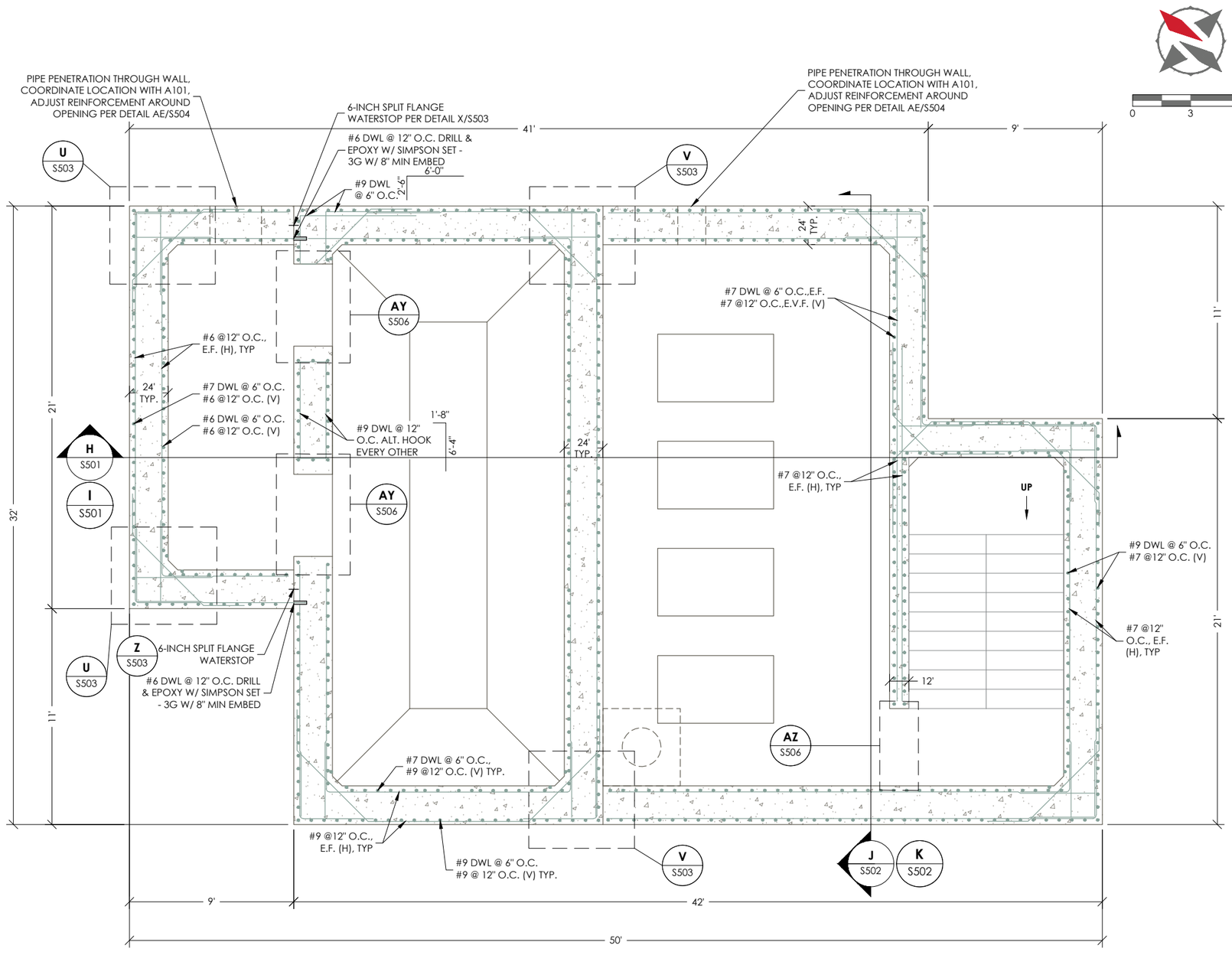

NOTES:
1) FOR REINF. NOT CALLED OUT SEE SHEET S501

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PROFESSIONAL ENGINEER
07/17/2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

LOWER LEVEL STRUCTURAL PLAN

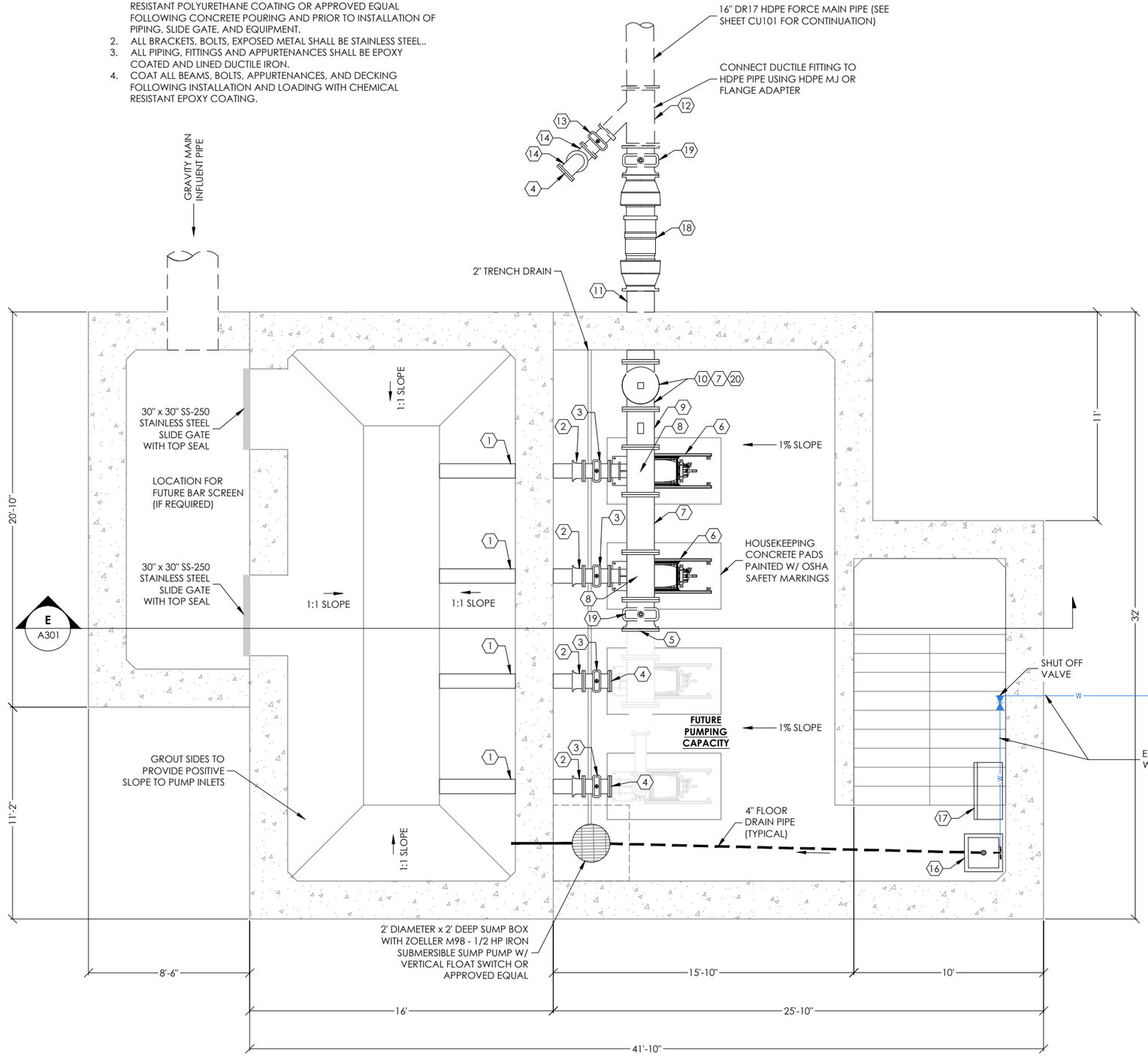
11 OF 67

S105

U183-NF | 01:33 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\11 S105.DWG

NOTES:

1. LINE WET WELL & 6' PRECAST VAULT WITH SPRAYROQ CHEMICAL RESISTANT POLYURETHANE COATING OR APPROVED EQUAL FOLLOWING CONCRETE POURING AND PRIOR TO INSTALLATION OF PIPING, SLIDE GATE, AND EQUIPMENT.
2. ALL BRACKETS, BOLTS, EXPOSED METAL SHALL BE STAINLESS STEEL..
3. ALL PIPING, FITTINGS AND APPURTENANCES SHALL BE EPOXY COATED AND LINED DUCTILE IRON.
4. COAT ALL BEAMS, BOLTS, APPURTENANCES, AND DECKING FOLLOWING INSTALLATION AND LOADING WITH CHEMICAL RESISTANT EPOXY COATING.



0 3 6 FT

KEYED NOTES

1	8-INCH SPOOL (PE×PE)
2	8-INCH FLANGE ADAPTER
3	8-INCH FULL PORT PLUG VALVE (FL×FL)
4	8-INCH BLIND FLANGE
5	16-INCH BLIND FLANGE
6	FLYGT NP 3171 PUMP & MOTOR (HORIZONTAL CONFIGURATION W/ SERVICE CART)
7	16-INCH SPOOL (FL×FL)
8	16-INCH × 6-INCH TEE (FL×FL)
9	16" ENDRESS+HAUSER MAGNETIC FLOW METER
10	16-INCH 90° BEND (FL×FL)
11	16-INCH SPOOL (FL×PE)
12	16-INCH × 8-INCH WYE LATERAL (FL×FL)
13	8-INCH FULL PORT STAINLESS STEEL PLUG VALVE (FL×FL)
14	8-INCH 90° BEND (FL×FL)
15	8-INCH SPOOL (FL×FL)
16	DEEP SINK WITH HOSE BIB TYPE FAUCET. INSTALL FAUCET SPLITTER TO ALLOW FOR SINK & HOSE USE. (DRAIN INTO SUMP PUMP)
17	WALL- MOUNTED STEEL STORAGE CABINET (DURNAM MODEL U5612 ADJUSTABLE SHELVES RUST AND ACID RESISTANT BAKED ENAMEL FINISH)
18	16" EBAA IRON FLEXTEND COUPLING (MJ×FLG)
19	16-INCH FULL PORT STAINLESS STEEL PLUG VALVE (FL×FL)
20	16-INCH TEE WITH BLIND FLANGE AND AIR VAC

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REGISTERED PROFESSIONAL ENGINEER — JOSHUA PRETTYMAN — No. 9637735-2202 — 11/1/24 — STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

VAULT PLAN

12 OF 67

A101

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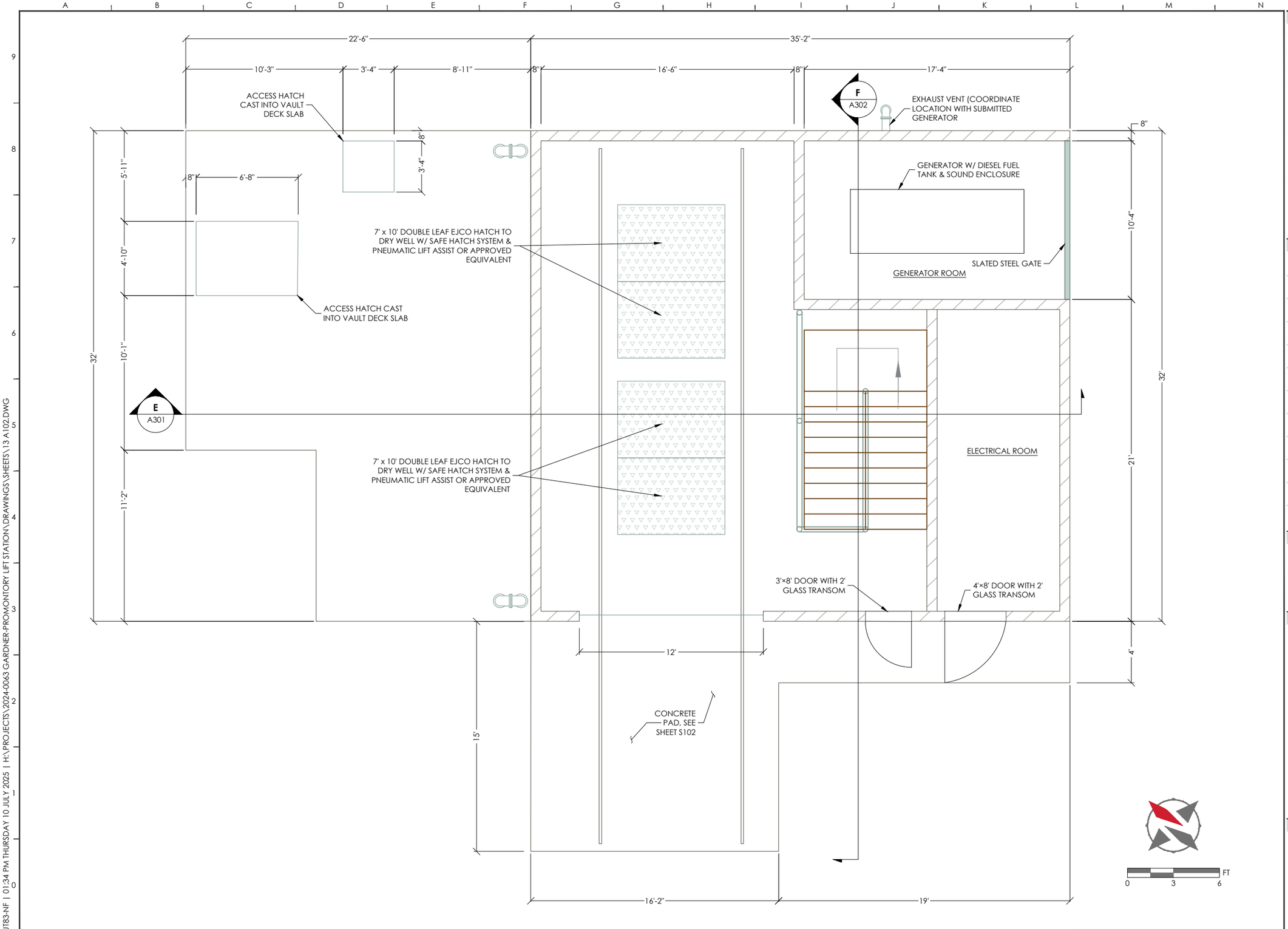

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11/1/24
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PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

MAIN LEVEL FLOOR PLAN

13 OF 67

A102

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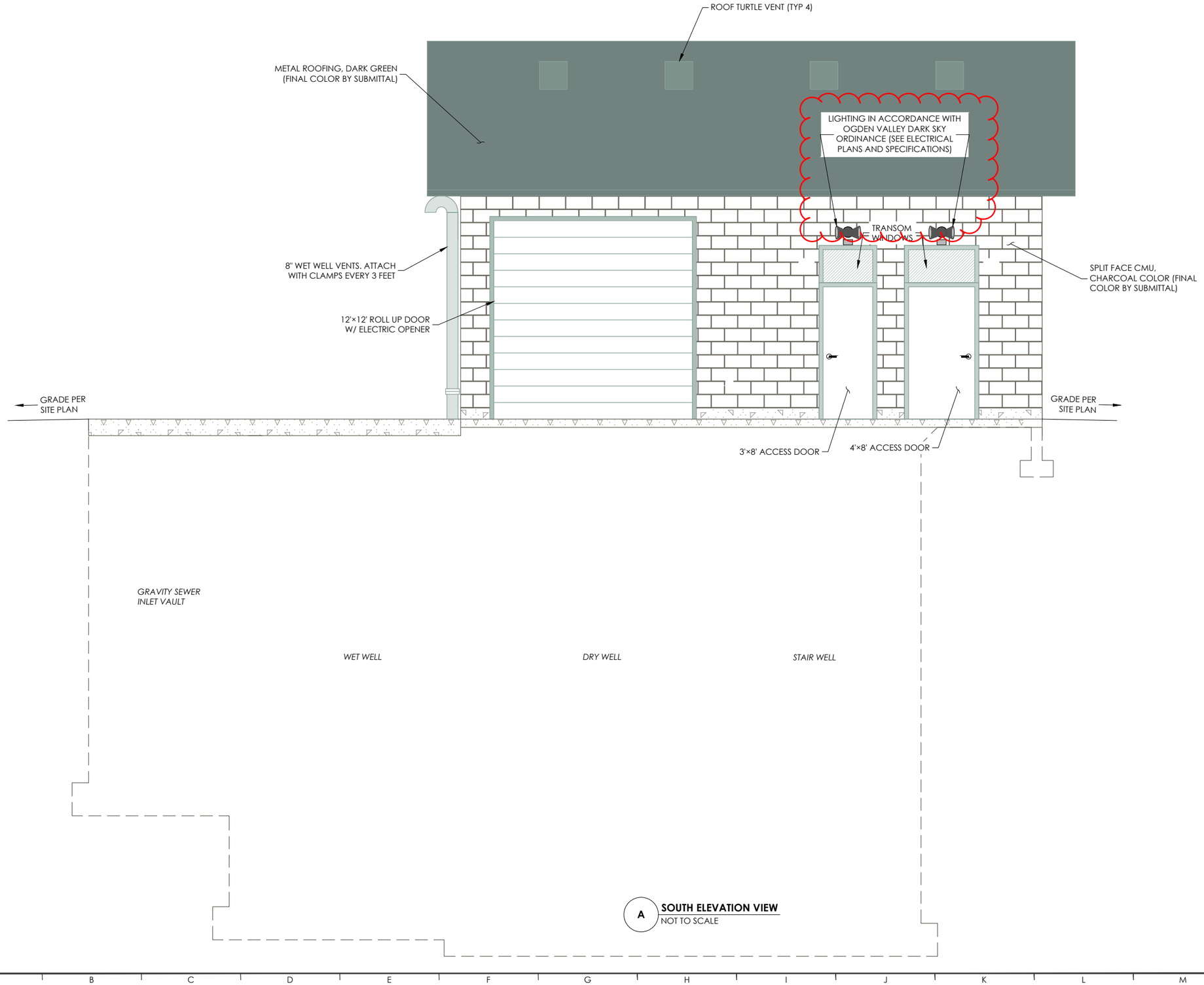

A **SOUTH ELEVATION VIEW**
NOT TO SCALE

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PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

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SOUTH ELEVATION VIEW

14 OF 67

A201

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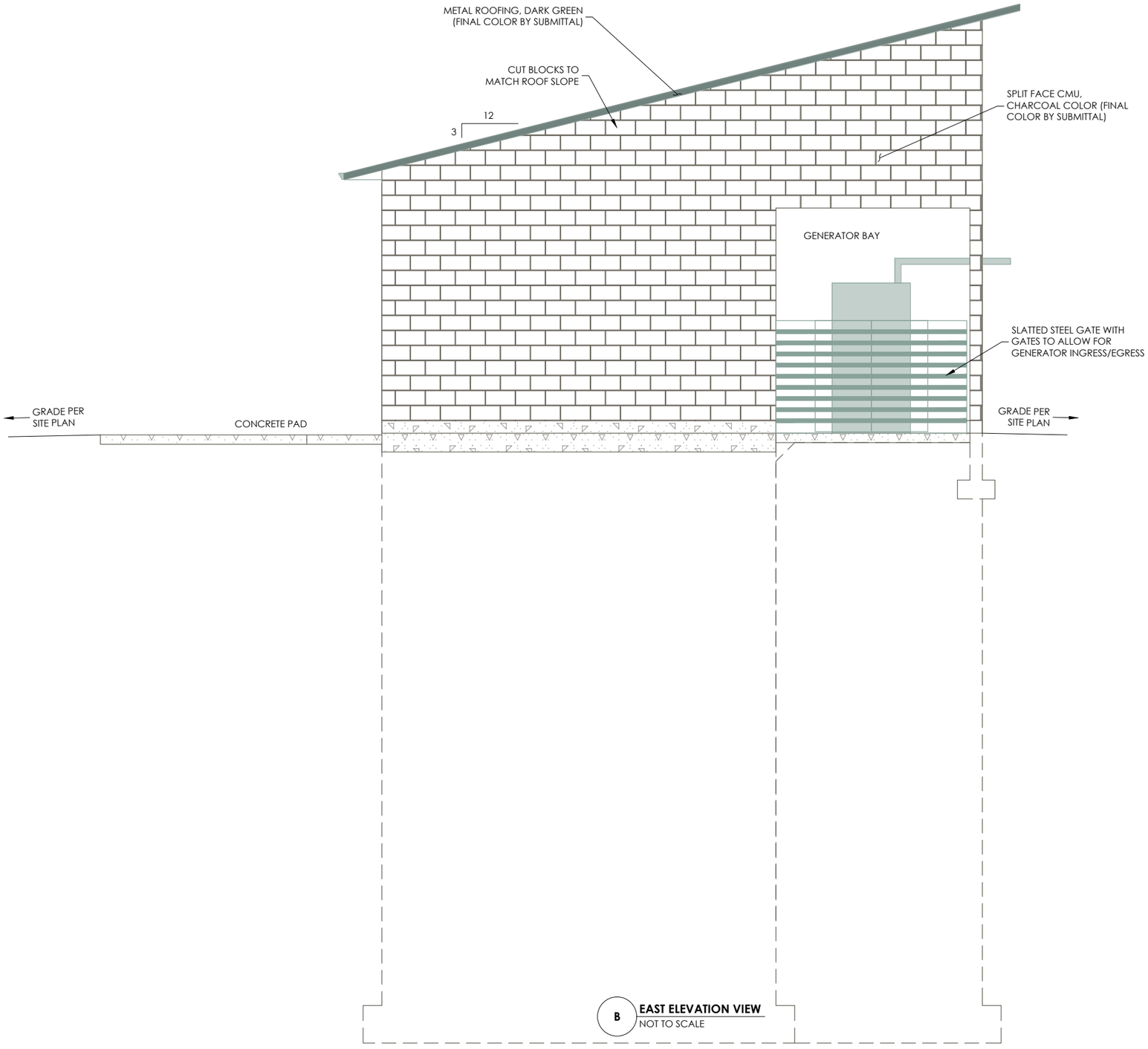

B **EAST ELEVATION VIEW**
NOT TO SCALE

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11/1/24
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REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

EAST ELEVATION VIEW

15 OF 67

A202

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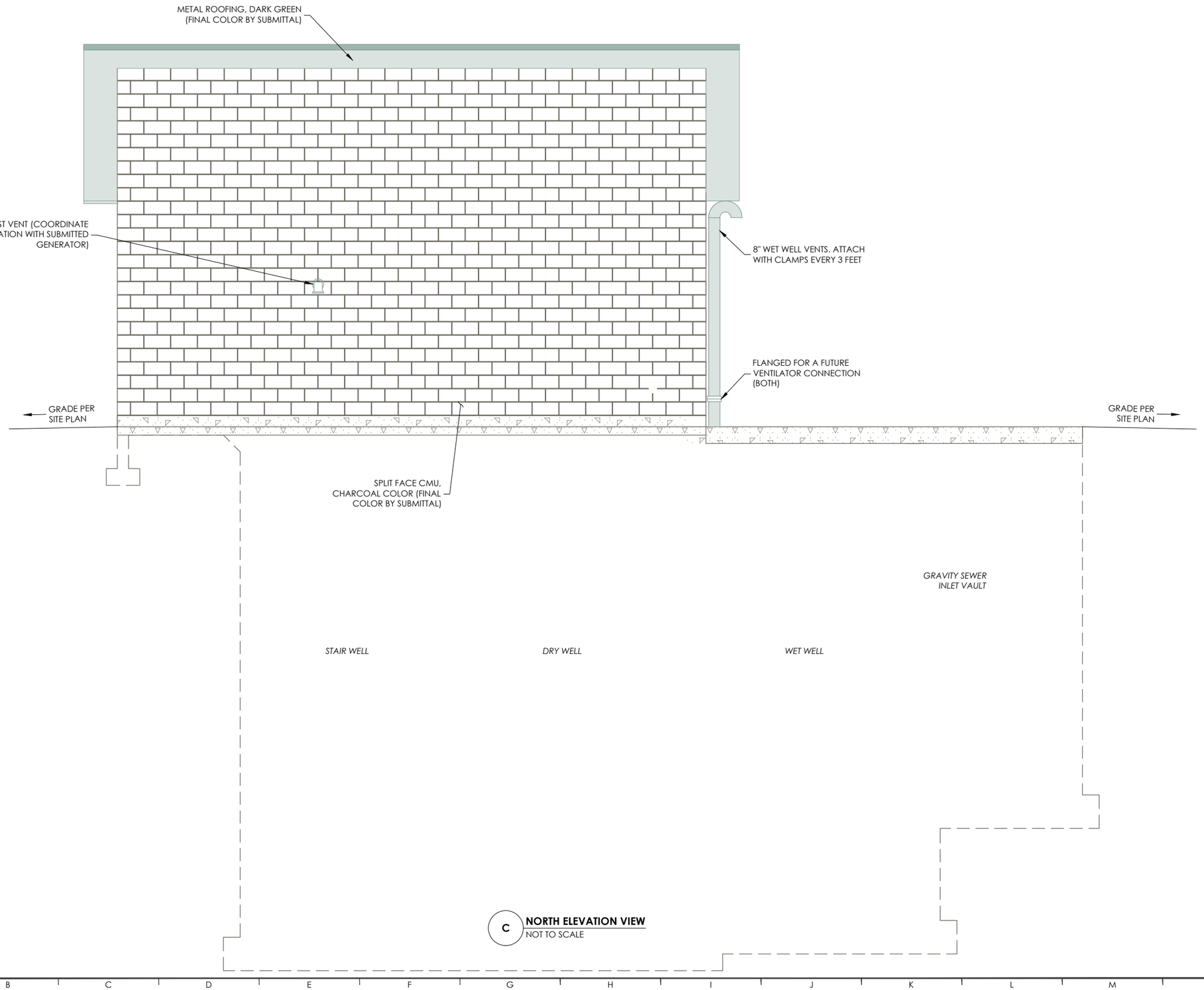

C **NORTH ELEVATION VIEW**
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1	JAP	7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

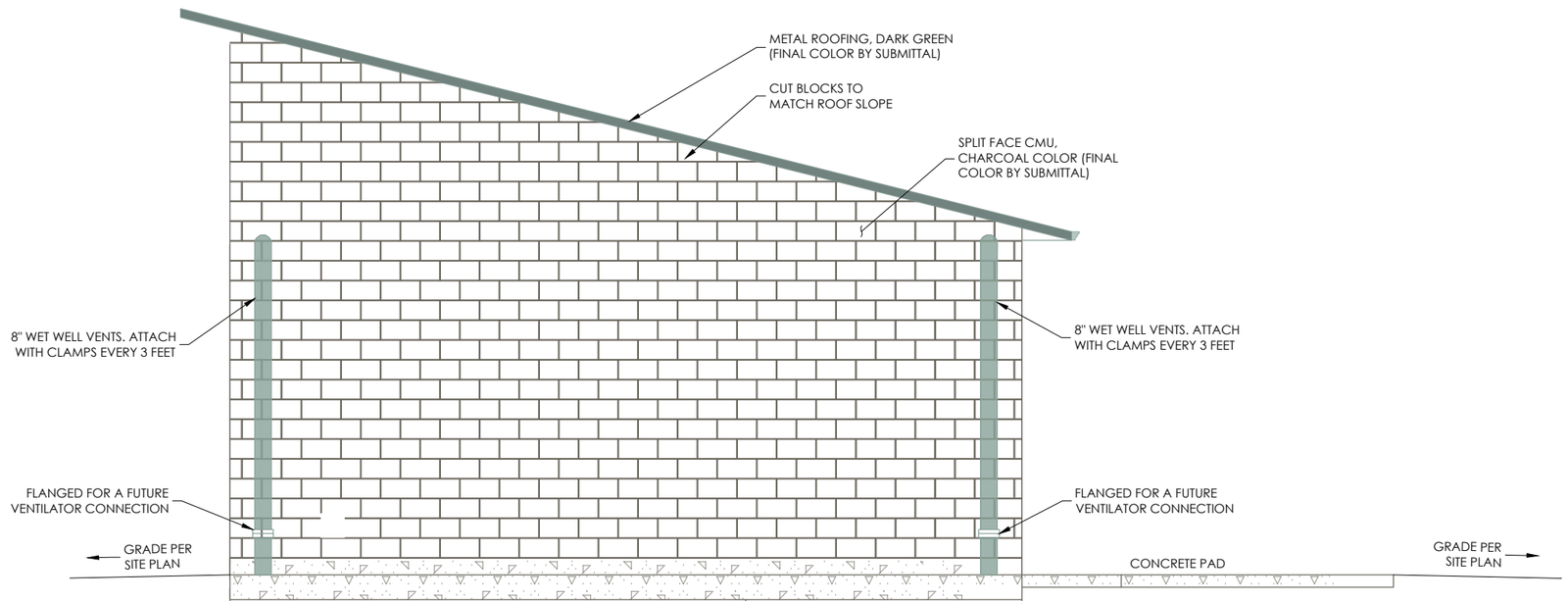
6137 W 900 S OGDEN UT 84404

NORTH ELEVATION VIEW

16 OF 67

A203

--- | 01:34 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\16 A203.DWG



D **WEST ELEVATION VIEW**
NOT TO SCALE

CONTACT INFORMATION

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Gardner

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REVISIONS

1	JAP	7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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11/1/24
STATE OF UTAH

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MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

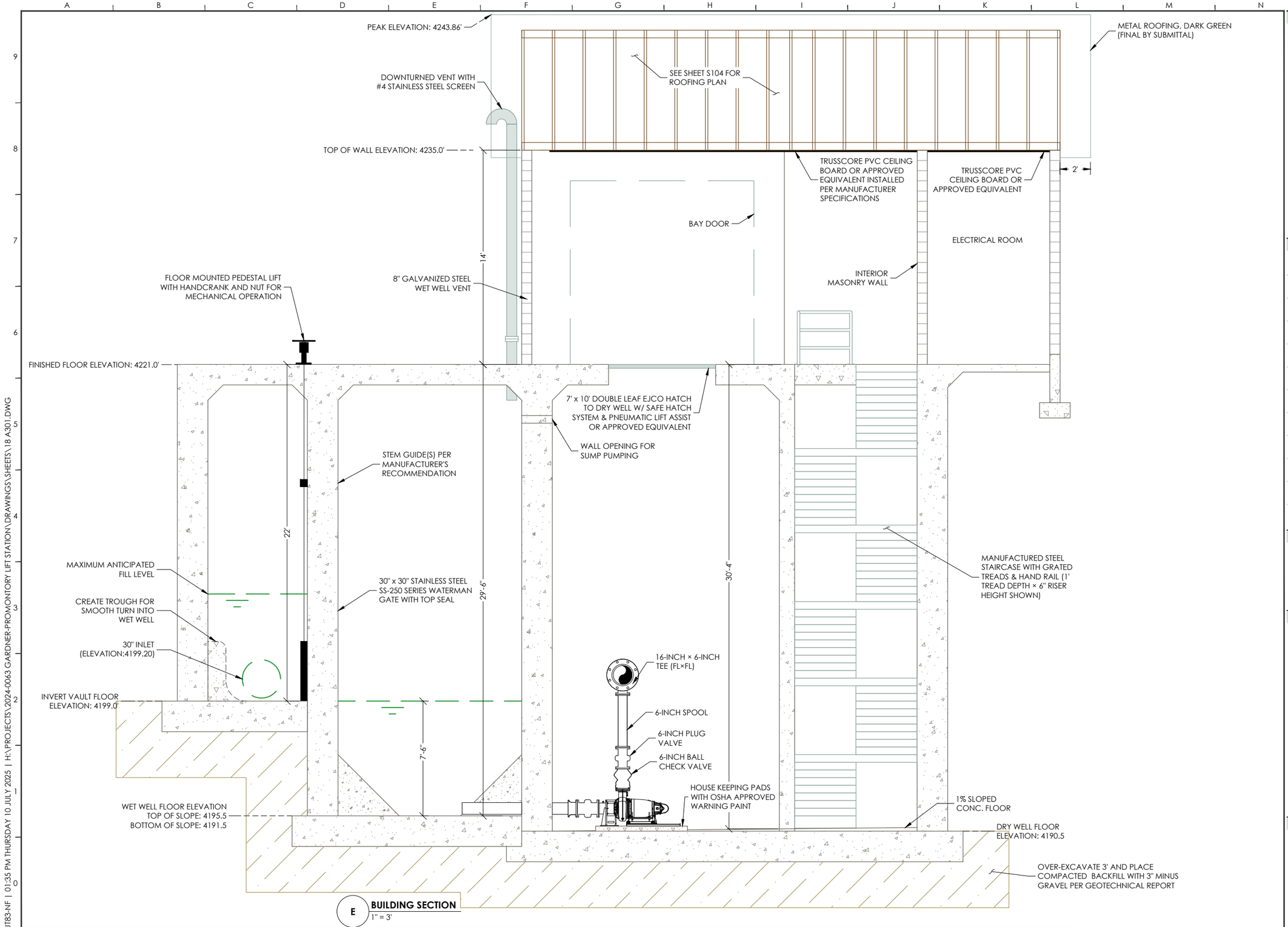
6137 W 900 S OGDEN UT 84404

WEST ELEVATION VIEW

17 OF 67

A204

---- | 01:35 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\17 A204.DWG



E **BUILDING SECTION**
1" = 3'

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11/1/24
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PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

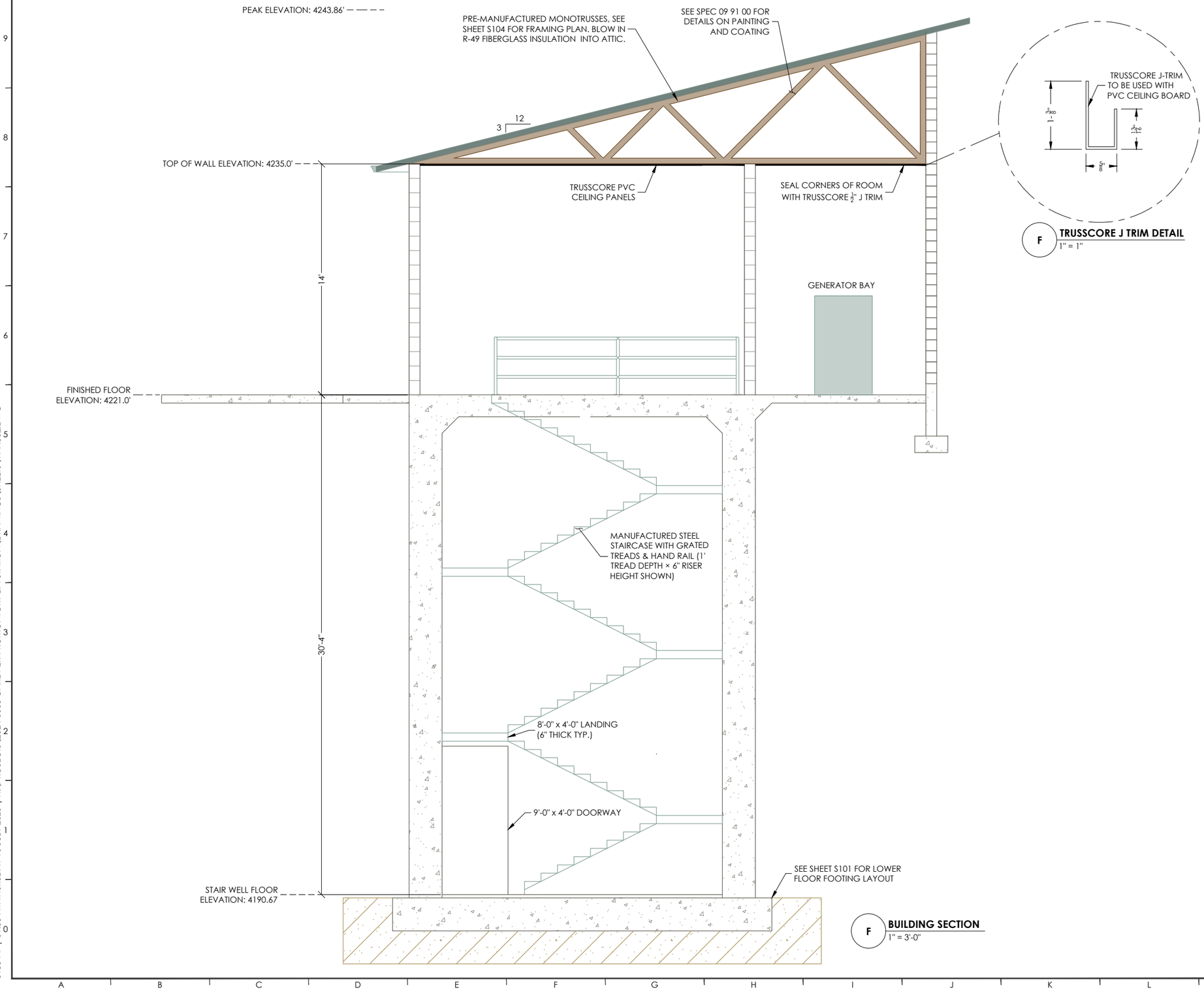
6137 W 900 S OGDEN UT 84404

BUILDING SECTIONS

18 OF 67

A301

UT83-NF | 01:35 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\18 A301.DWG



F **TRUSSCORE J TRIM DETAIL**
1" = 1"

F **BUILDING SECTION**
1" = 3'-0"

CONTACT INFORMATION

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11/1/24
STATE OF UTAH

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MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

BUILDING SECTIONS

19 OF 67

A302

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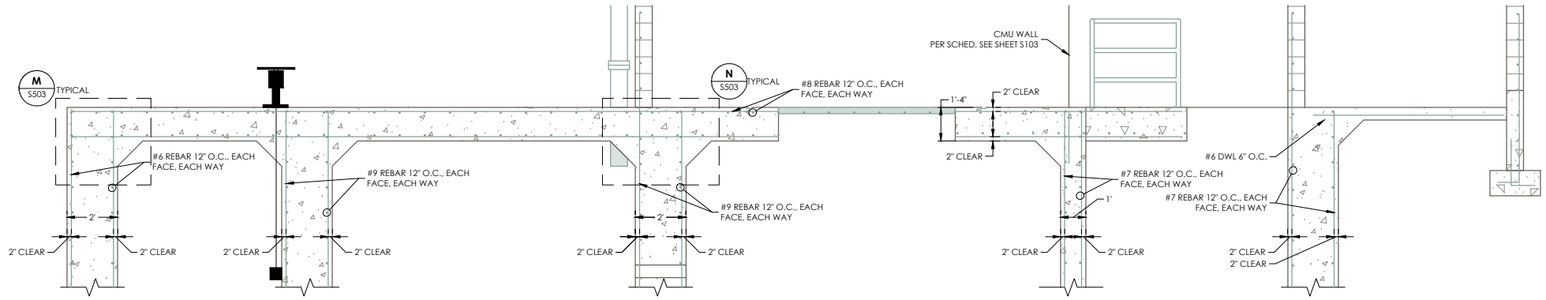
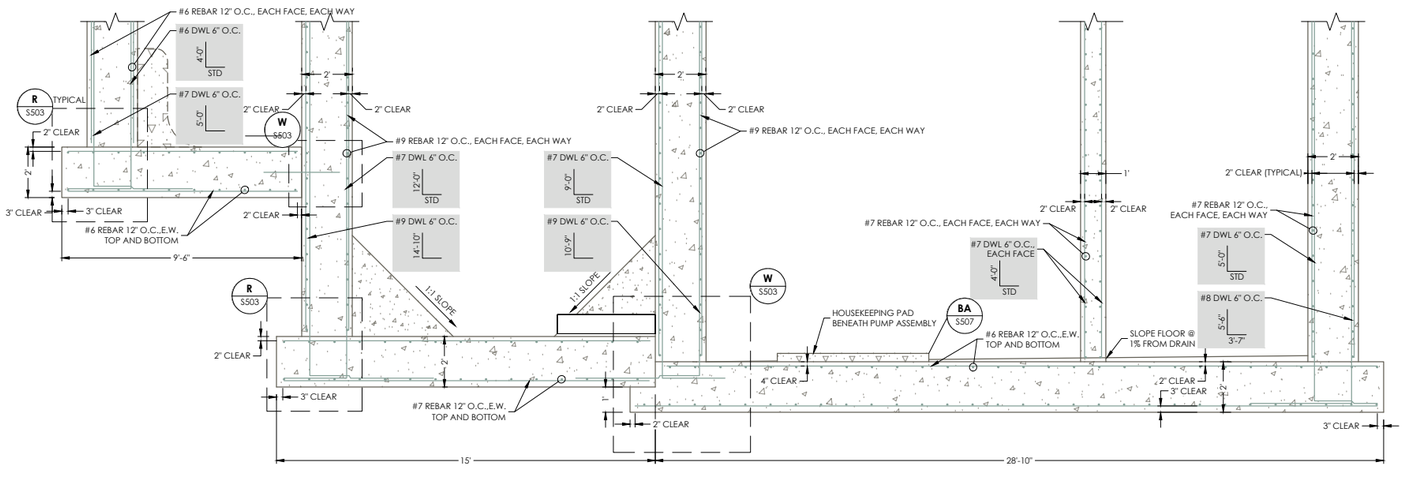


H **VAULT ROOF & WALL STRUCTURAL SECTIONS**
1" = 3'-0"



I **VAULT FOOTING & WALL STRUCTURAL SECTIONS**
1"=3'-0"

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DESIGN

PROFESSIONAL ENGINEER
07 / 17 / 2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS

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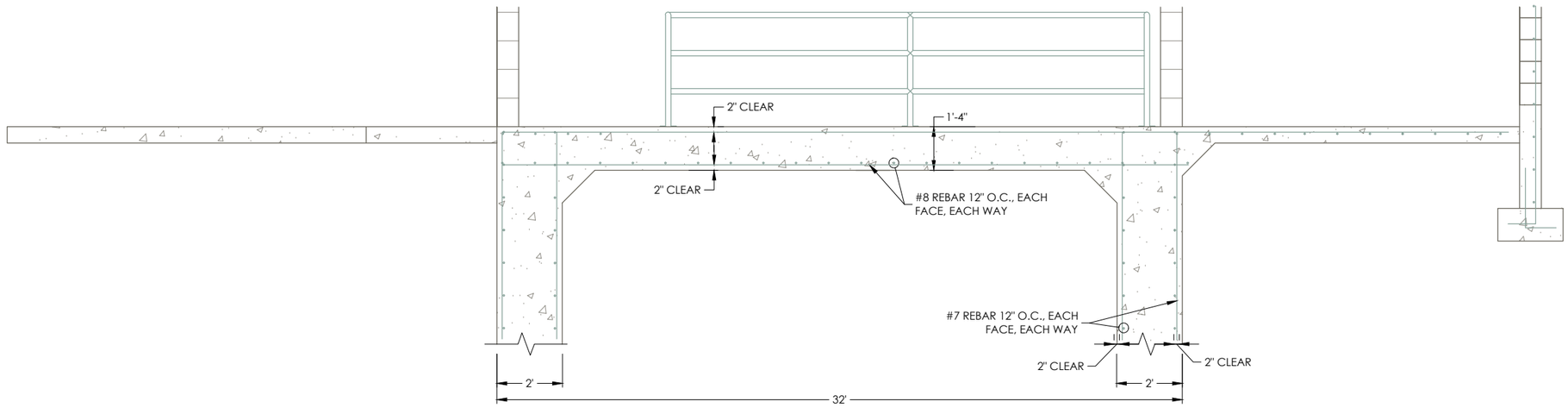
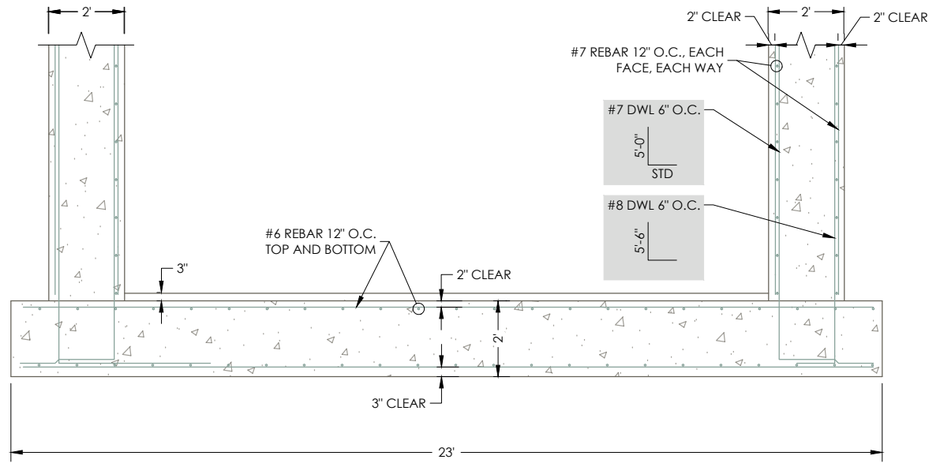


J **VAULT ROOF & WALL STRUCTURAL SECTIONS**
1"=2'-0"



K **VAULT FOOTING & WALL SECTION**
1"=2'-0"

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07 / 17 / 2025
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STATE OF UTAH

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DRAFTER : C. HAMMON

PROJECT

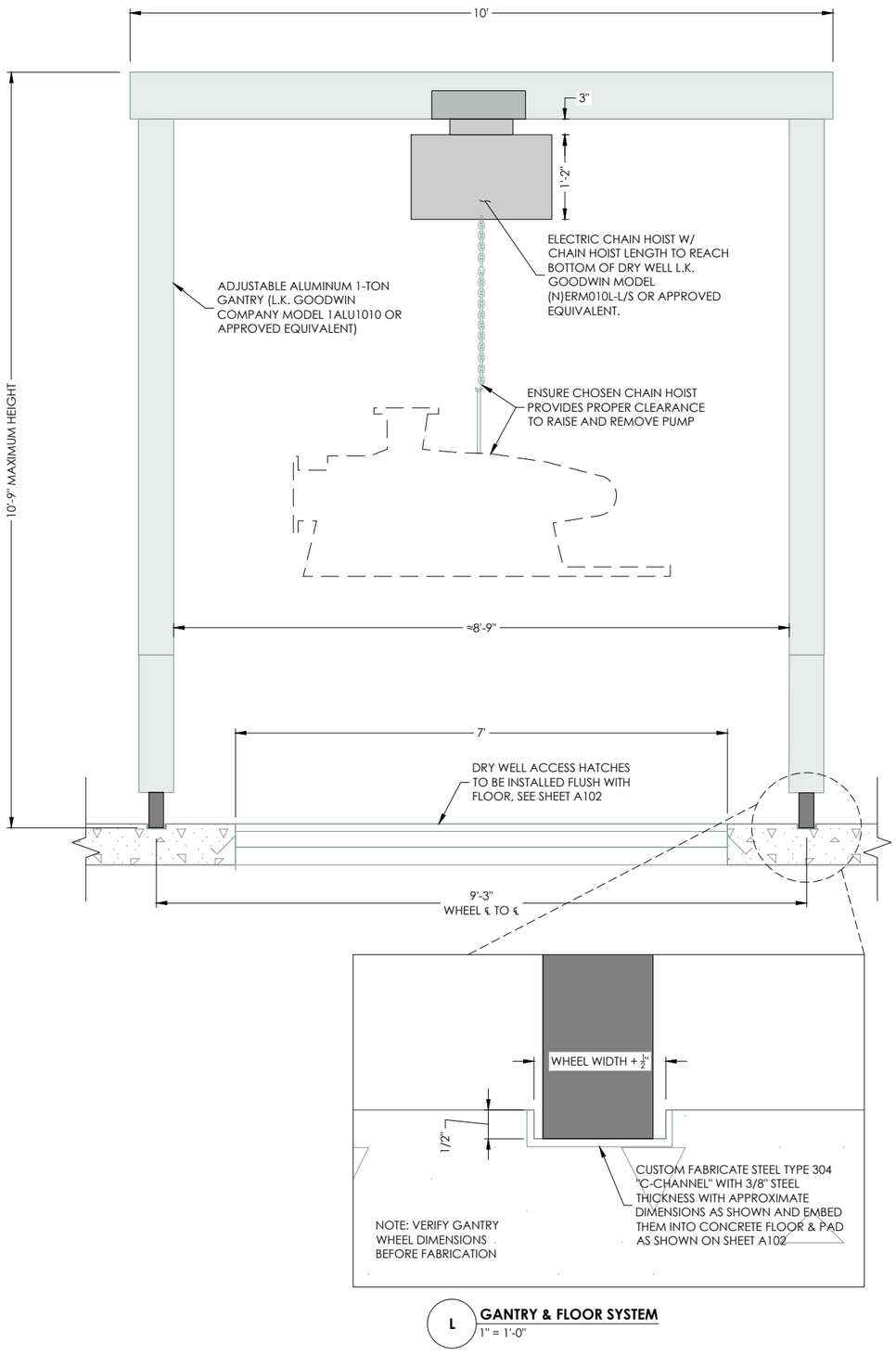
2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS

--- | 01:35 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\S502.DWG



L **GANTRY & FLOOR SYSTEM**
1" = 1'-0"

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STATE OF UTAH

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PROJECT

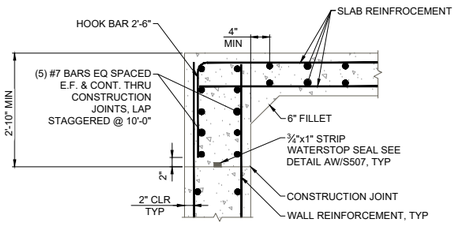
2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

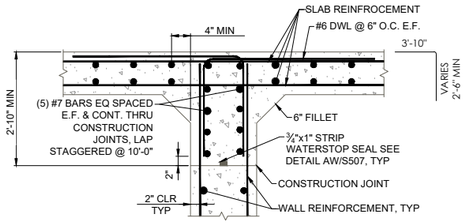
6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS

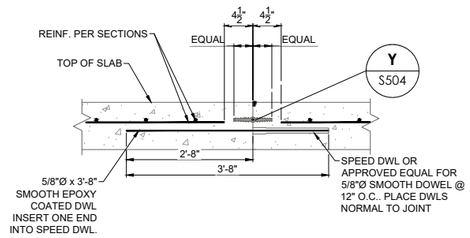
---- | 01:36 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\22 S503.DWG



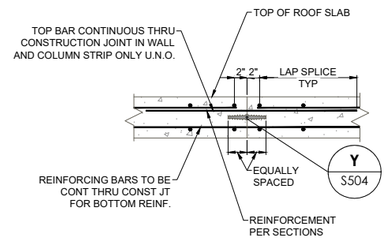
M **EDGE BEAM**
3/4" = 1'



N **INTERIOR BEAM**
3/4" = 1'

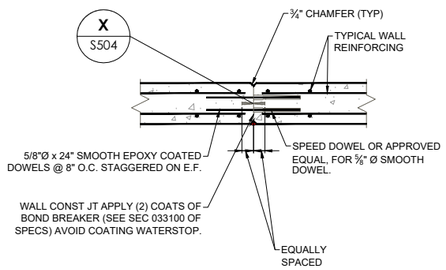


O **FLOOR SLAB CONSTRUCTION JOINT**
1" = 1'

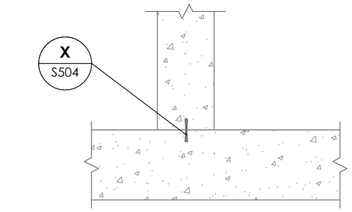


P **ROOF SLAB CONSTRUCTION JOINT**
1" = 1'

NOTE:
1. WALL SEALANT GROOVE CONTINUOUS FROM TOP OF FOOTING TO BOTTOM OF ROOF FILLET.

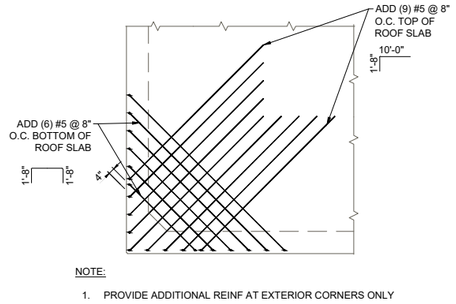


Q **VERTICAL WALL CONSTRUCTION JOINT**
1" = 1'



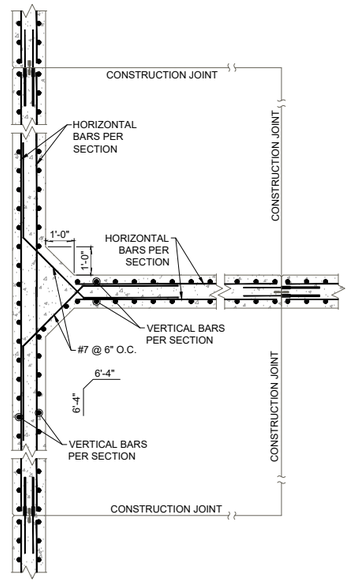
NOTE:
REINF. NOT SHOWN THIS DETAIL

R **STRUCTURAL CONSTRUCTION JOINT**
1" = 1'

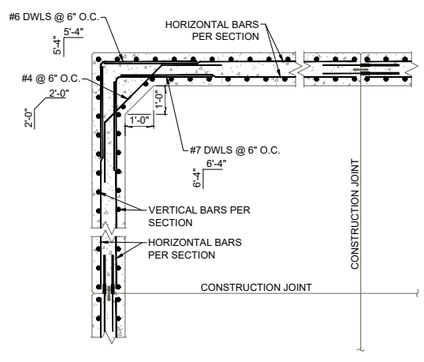


NOTE:
1. PROVIDE ADDITIONAL REINF AT EXTERIOR CORNERS ONLY

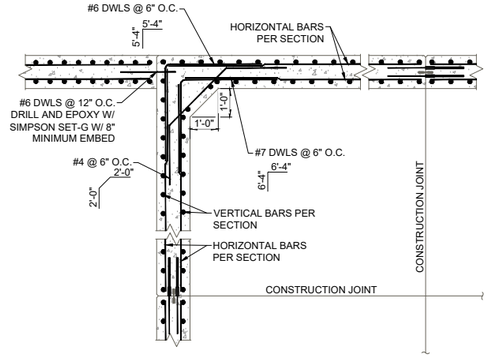
S **ROOF SLAB CORNER REINFORCEMENT DETAIL**
1/4" = 1'



T **TYPICAL WALL INTERSECTION REINFORCEMENT DETAIL**
3/8" = 1'

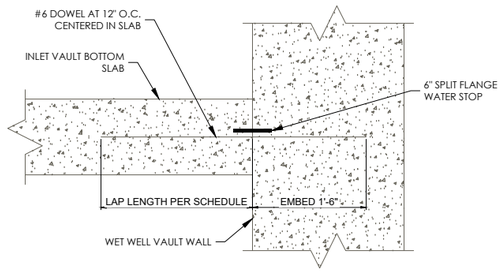


U **WALL CORNER REINFORCEMENT DETAIL**
3/8" = 1'

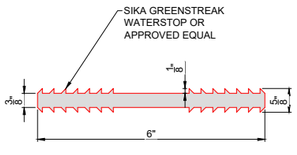


V **WALL JOINT REINFORCEMENT DETAIL**
3/8" = 1'

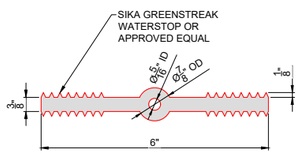
NOTES:
1. WALL AND SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.
2. WATER STOP REQUIRED ONLY FOR INLET VAULT.



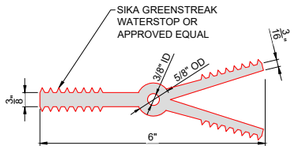
W **VAULT SLAB CONNECTION DETAIL**
1" = 1'



X **6-INCH FLAT STRIP WATERSTOP**
6" = 1'



Y **6-INCH CENTERBULB WATERSTOP**
6" = 1'



Z **6-INCH SPLIT FLANGE WATERSTOP**
6" = 1'

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REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT
2024-0063
10 JULY 2025

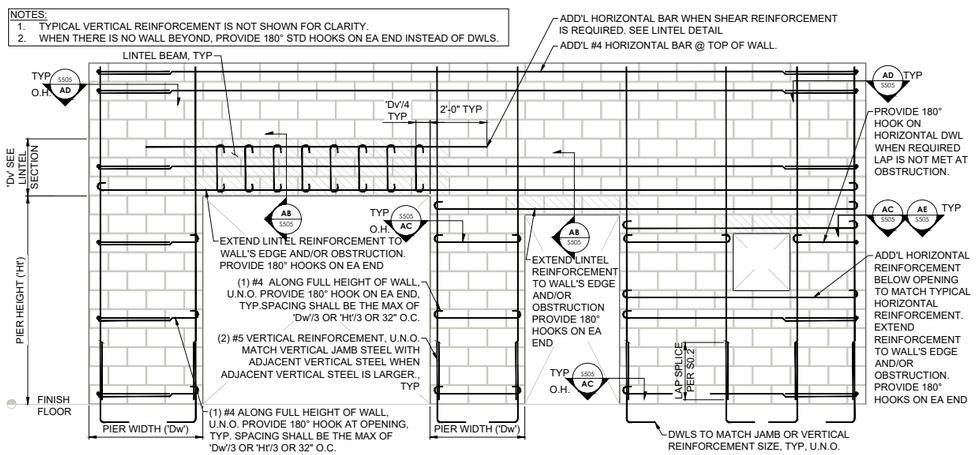
PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS
23 OF 67
S504

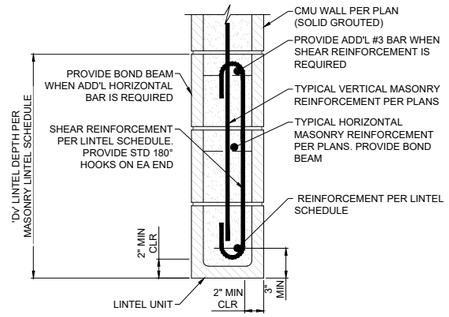
H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\23 S504.DWG | 01:36 PM THURSDAY 10 JULY 2025 | ----

NOTES:
1. TYPICAL VERTICAL REINFORCEMENT IS NOT SHOWN FOR CLARITY.
2. WHEN THERE IS NO WALL BEYOND, PROVIDE 180° STD HOOKS ON EA END INSTEAD OF DWLS.

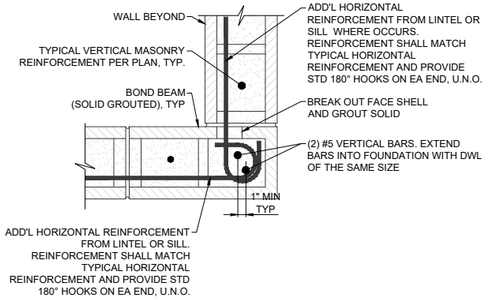


AA TYPICAL MASONRY WALL REINFORCEMENT DETAIL
3/8" = 1'

NOTES:
1. SEE MASONRY LINTEL SCHEDULE ON PANS

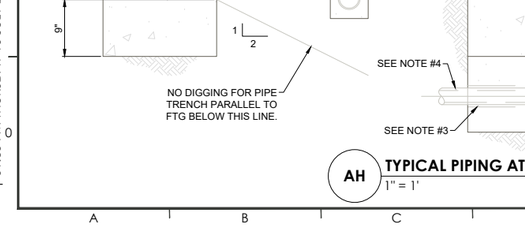


AB TYPICAL MASONRY LINTEL SECTION
1 1/2" = 1'



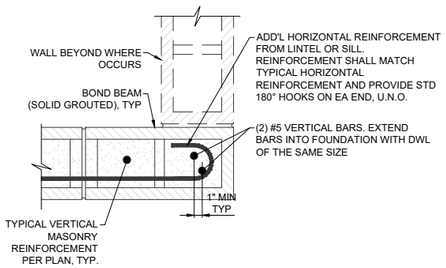
AC SILL AND LINTEL CORNER CONNECTION
1 1/2" = 1'

NOTES:
1. VERTICAL REINFORCEMENT LOCATED AT CENTER OF WALL, U.N.O.



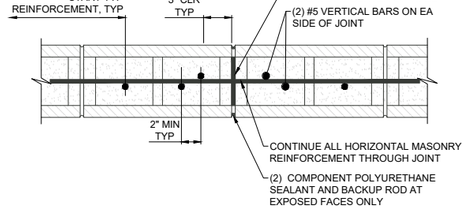
AD MASONRY WALL CORNER CONNECTION
1 1/2" = 1'

NOTES:
1. WHEN THERE IS NO WALL BEYOND, PROVIDE 180° STD HOOKS ON EA END INSTEAD OF DWLS FOR TYPICAL HORIZONTAL MASONRY REINFORCEMENT



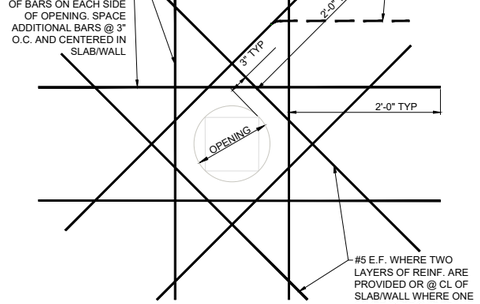
AE MASONRY WALL END
1 1/2" = 1'

NOTES:
1. CONTROL JOINT SHALL BE SPACED AT 24'-0" MAX. UNLESS NOTED OTHERWISE ON PLANS



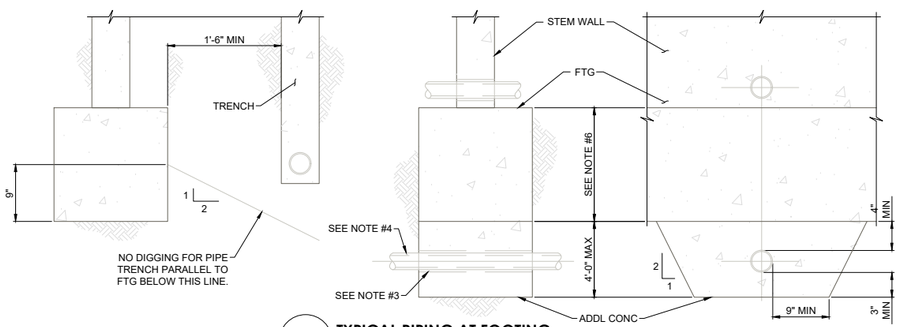
AF MASONRY CRACK CONTROL JOINT
1 1/2" = 1'

NOTES:
1. OPENING SHALL NOT BE LARGER THAN 36". NOTIFY ENGINEER IF OPENING IS REQUIRED TO BE LARGER.

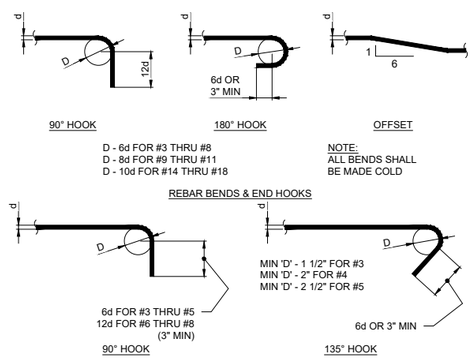


AG TYPICAL REINFORCEMENT AT PENETRATIONS
1" = 1'

NOTES:
1. WHERE PIPES ARE MORE THAN 4'-0" BELOW BOTTOM OF FOOTING, NO SPECIAL DETAILING IS REQUIRED.
2. PIPES SHALL NOT PASS UNDERNEATH GRADE BEAMS OR COLUMN FOOTINGS.
3. EMBED PIPE IN ABS SLEEVE WITH 1" CLR ALL AROUND OR IN 1" FOAM RUBBER WRAP.
4. MAXIMUM PIPE SIZE IS 10" DIAMETER. LARGER SIZES MUST BE APPROVED BY THE ENGINEER.
5. SEE CIVIL & MECHANICAL DRAWINGS FOR LOCATION & SIZE OF PIPES.
6. FOOTING THICKNESS - NO PIPES SHALL BE PLACED WITHIN THIS HEIGHT.

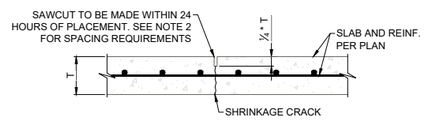


AH TYPICAL PIPING AT FOOTING
1" = 1'



AI TIE AND STIRRUPS END HOOKS
1" = 1'

NOTES:
1. SAWCUT SPACING SHALL NOT BE LARGER THAN 18' FOR 6" THICK SLAB AND 36' FOR 12" THICK SLAB. SAWCUTS SHALL BE CONTINUOUS ACROSS INTERSECTING JOINTS, NOT STAGGERED OR OFFSET.
2. DETAIL SHALL BE REFERRED TO SLAB-ON-GRADES ONLY.



SAWCUT CONSTRUCTION JOINT

AJ CONCRETE SLAB JOINTS U.N.O.
1" = 1'

CONTACT INFORMATION

Answers to Infrastructure®
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Gardner

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REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

PROFESSIONAL ENGINEER
07 / 17 / 2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

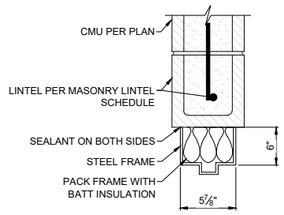
PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT
2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

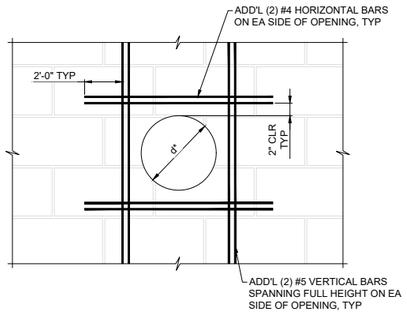
6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS
24 OF 67
S505

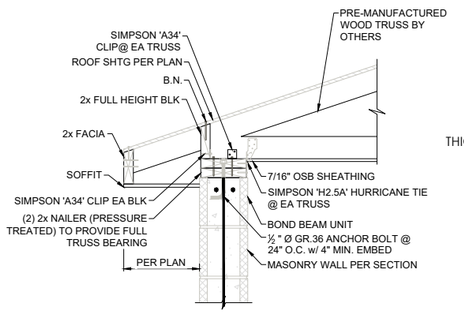


AP HEAD FRAME DETAIL
1 1/2" = 1'

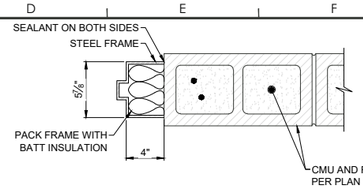
NOTES:
1. d* OPENING DIAMETER 18" MAX



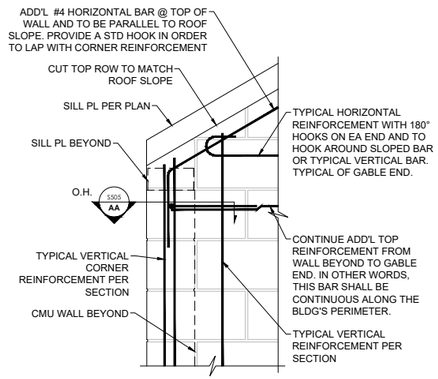
AK CMU PENETRATION REINFORCEMENT
1" = 1'



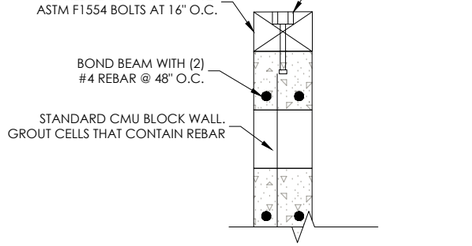
AU WOOD TRUSS TO CMU WALL
1" = 1'

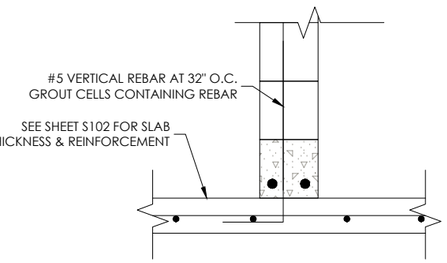


AR JAMB FRAME DETAIL
1 1/2" = 1'



AL CMU REINFORCEMENT AT GABLE END
1" = 1'

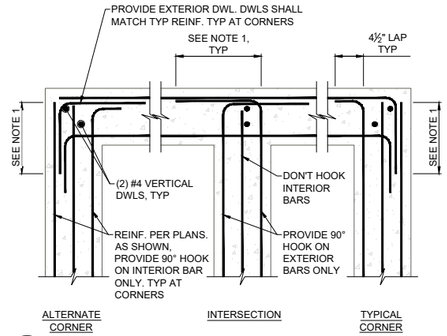




NOTE:
LUMBER IN CONTACT WITH CONCRETE OR MASONRY IS TO BE TREATED.

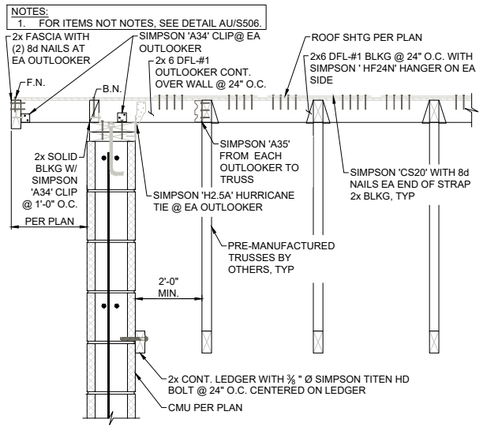
AQ INTERIOR WALL
NOT TO SCALE

NOTES:
1. FOR CONCRETE LAP LENGTHS SEE TABLE IN REINF STEEL NOTES ON SHEET G003.

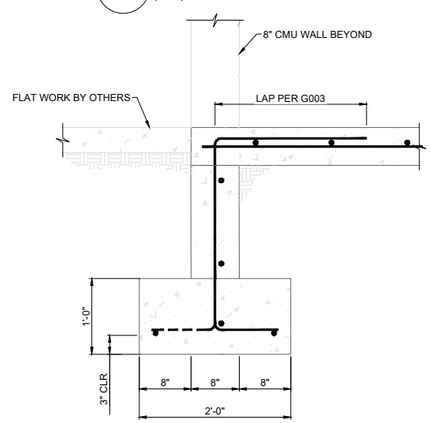


AS REINFORCEMENT AT FOOTING INTERSECTIONS
1" = 1'

NOTES:
1. FOR ITEMS NOT NOTES, SEE DETAIL AU/S506.

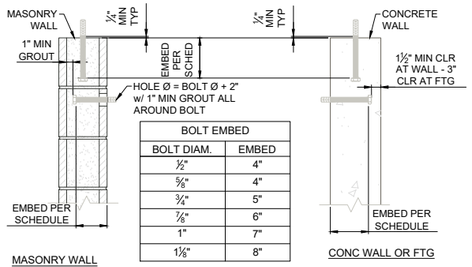


AO GABLE END TRUSS TO CMU WALL
1" = 1'



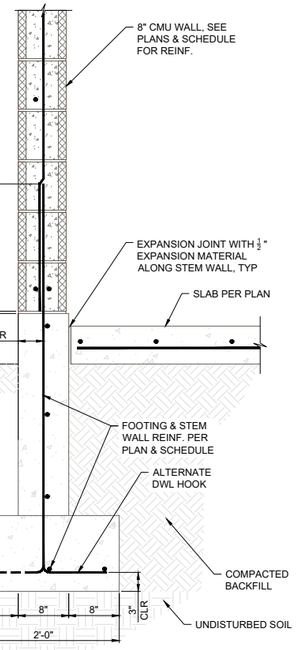
AT WALL OPENING FOUNDATION DETAIL
1" = 1'

NOTES:
1. FOUNDATION SILL PL A.B.'S SHALL HAVE A MIN 7" EMBED.
2. ALL ANCHOR BOLTS SHALL BE SECURELY TIED IN PLACE PRIOR TO AND WHILE PLACING CONCRETE OR GROUT.
3. A.B.'S SHALL BE A HEADED MACHINE BOLTS.
4. A.S.T.M. A307 QUALITY SHALL BE THE MINIMUM REQD BOLT GRADE.
5. BOLTS SHALL BE PLACED CLEAN & FREE OF OIL, DIRT, RUST, OR ANY OTHER OTHER DELETERIOUS MATERIALS.



BOLT EMBED	
BOLT DIAM.	EMBED
½"	4"
⅝"	4"
¾"	5"
⅞"	6"
1"	7"
1⅛"	8"

AM EMBEDDED BOLTS
1" = 1'



AN FOUNDATION DETAIL
1" = 1'

CONTACT INFORMATION

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Gardner

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P: 801.456.4140

REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

PROFESSIONAL ENGINEER
07/17/2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT
2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS
25 OF 67
S506

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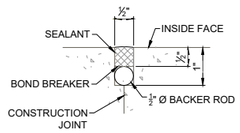
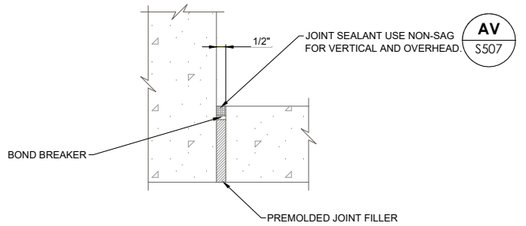


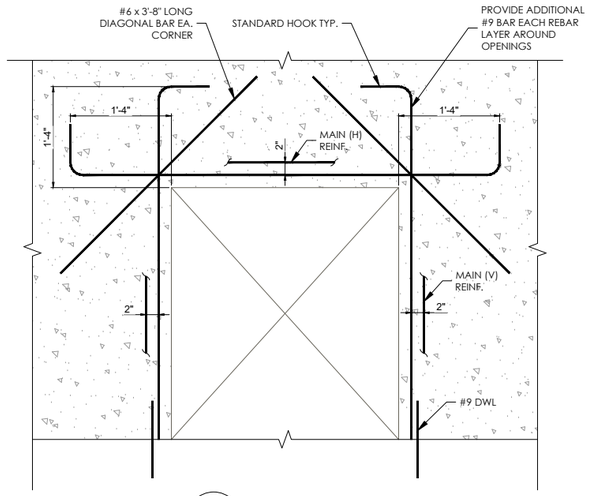
PREFORMED PLASTIC WATERSTOP TO BE SYNKO-FLEX (R) OR ENGINEER APPROVED EQUAL.



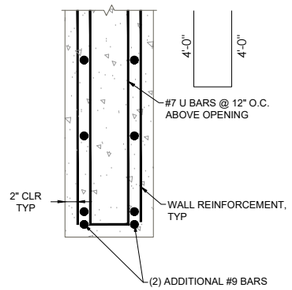
AV JOINT DETAIL
6" = 1'

AW STRIP WATERSTOP
6" = 1'

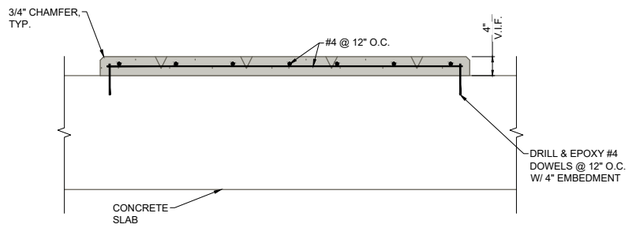
AX EXPANSION JOINT DETAIL
3" = 1'



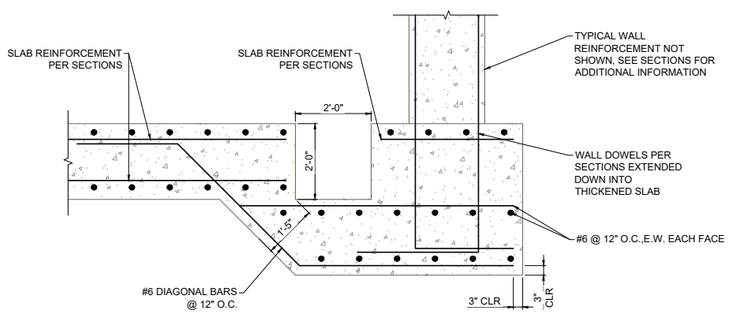
AY REINFORCEMENT AROUND WALL OPENINGS
1" = 1'



AZ REINFORCEMENT ABOVE WALL OPENINGS
1" = 1'



BA CONCRETE HOUSEKEEPING PAD
3/4" = 1'



BB REINFORCEMENT AT SUMP BOX
1/2" = 1'

CONTACT INFORMATION

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DESIGN

PROFESSIONAL ENGINEER
07/17/2025
No. 9206167-2202
KIRK WINEGAR
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT
2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

STRUCTURAL DETAILS
26 OF 67
S507

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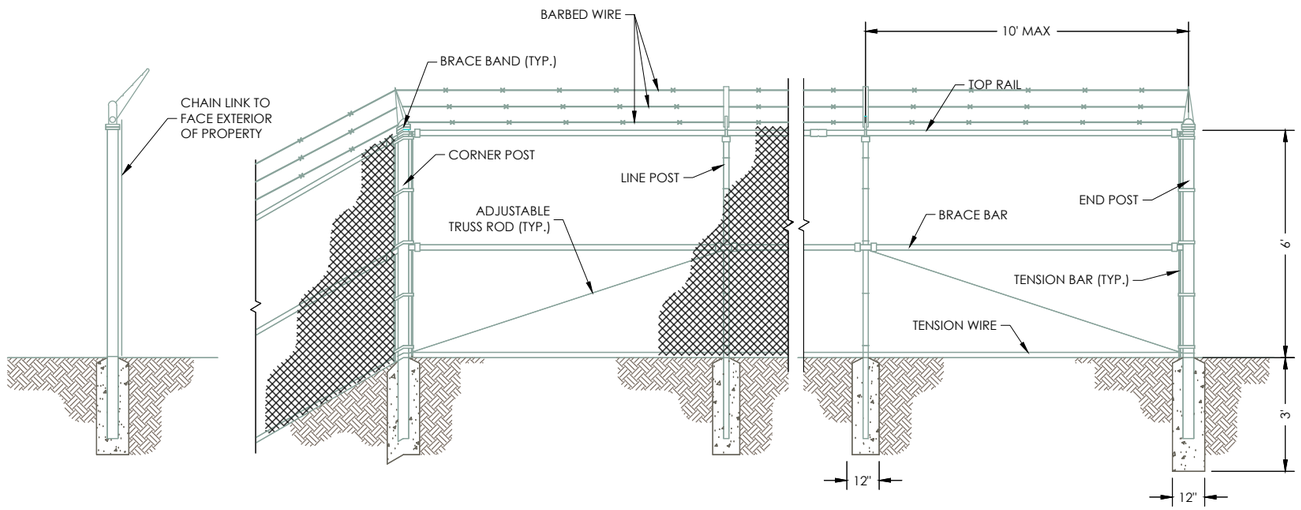
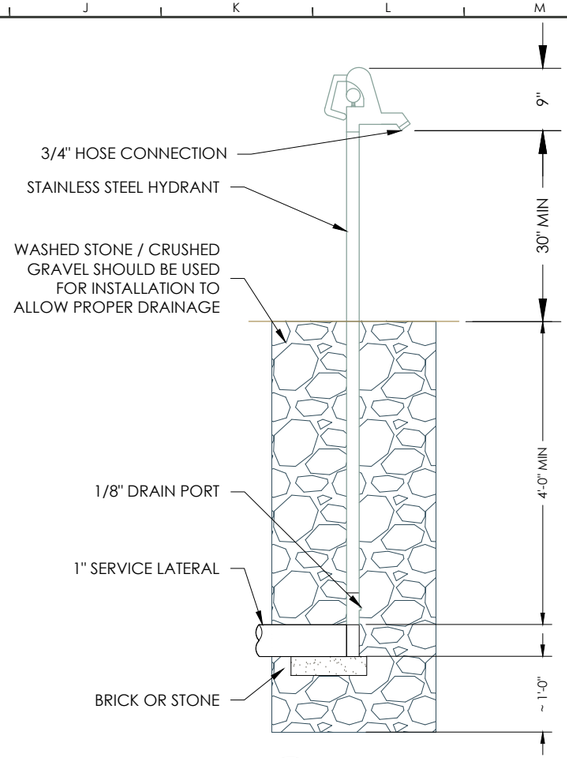


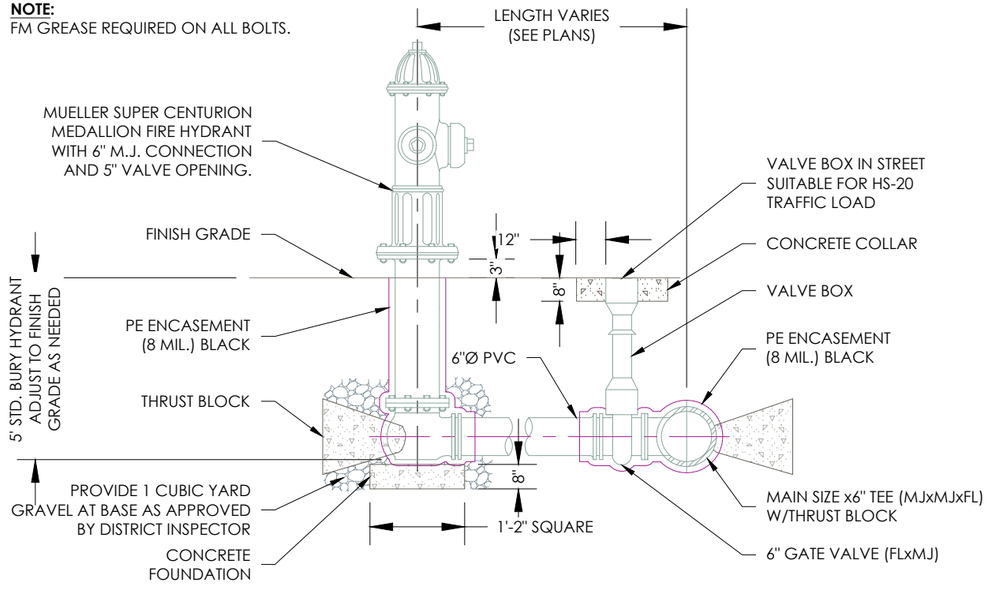
NOTE: CHAIN LINK GATES ARE TO BE INSTALLED PER UDOT DETAIL FG 6

19 CHAIN LINK FENCING
NOT TO SCALE



20 YARD HYDRANT
NOT TO SCALE

NOTE:
FM GREASE REQUIRED ON ALL BOLTS.



21 FIRE HYDRANT
NOT TO SCALE

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REVISIONS

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

SITE DETAILS

27 OF 67

CS501

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COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	24580_PROMONTORY LIFT STATION
Location:	Ogden, Utah
Climate Zone:	5b
Project Type:	New Construction

Construction Site:
9800 S 2800 E
OGDEN, Utah

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)
Credits: 10.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 ODU/IDU-1 (Single Zone w/ PerimeterSystem):
Cooling: 1 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brian Grisenti - PE — Name - Title
Signature
10/03/2024 — Date

Project Title: 24580_PROMONTORY LIFT STATION
Data filename:
Report date: 10/03/24

BASIS OF DESIGN - CLIMATIC CONDITIONS

LOCATION	WEATHER STATION (WMO)	ELEV	CLIMATE ZONE	HEATING DB	COOLING		EVAP		HUMIDIFICATION			DEHUMIDIFICATION			WIND SPEED	NOTES
					DB	MCWB	WB	MCDB	DP	HR	MCDB	DP	HR	MCDB		
OGDEN, UT, USA	725750	4,470'	5B	9.2 °F	95.9 °F	61.4 °F	65.1 °F	85.8 °F	0.3 °F	6.6 GR/LB	13.9 °F	58.4 °F	86.2	71.6 °F	21 mph	1

NOTES:
1. DATA FROM 2021 ASHRAE HANDBOOK - FUNDAMENTALS.
A. 0.4% COOLING, EVAPORATION, & DEHUMIDIFICATION DESIGN CONDITIONS.
B. 99.6% HEATING & HUMIDIFICATION DESIGN CONDITIONS.
C. 1% EXTREME ANNUAL WIND SPEED DESIGN CONDITIONS.

BASIS OF DESIGN - SPACE HVAC CONDITIONS

ROOM	AREA [SF]	CONDITION TYPE	TEMP [°F]		EA [ACH]	EQUIP HEAT GAIN [BTU/HR]	NOTES
			COOL	HEAT			
LOWER RM	420	HEATED	N.I.C.	50	12		1-2
STAIRWELL	139	UNCONDITIONED	N.I.C.	N.I.C.	0		1
ELEC RM	145	COOLED	85	N.I.C.	0	20,000	3
UPPER RM	570	UNCONDITIONED	N.I.C.	N.I.C.	0		1
GENERATOR ENCLOSURE	176	N.I.C.	N.I.C.	N.I.C.	0		4
	1450					20,000	

NOTES:
1. BLDG PRESS SHALL BE NEG W/ RESPECT TO ATMOSPHERIC PRESS.
2. VENTILATION REQMTS AS PER NFPA 820 TABLE 4.2.2 ROW 15.
3. 4x 50 HP VFDs & 1x 45 kVA XFMR.
4. GENERATOR VENTILATION BY OTHERS.

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
OR	EQUIPMENT
EQUIP #	EQUIPMENT CALLOUT
# SHT	DETAIL CALLOUT
X#	SHEET KEYNOTE, X = SHEET SERIES
	POINT OF CONNECTION
	POINT OF DISCONNECTION

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
DUCT SYSTEMS	
SYSTEM MARK	DUCTING AS PER DUCT SYSTEM SCHEDULE
/	EXHAUST AIR DUCT UP / DOWN
/	RETURN/OUTSIDE AIR DUCT UP / DOWN
/	SUPPLY AIR DUCT UP / DOWN
DAMPERS	
FD	FIRE DAMPER
MD	MOTORIZED CONTROL DAMPER
	VOLUME CONTROL DAMPER (MANUAL)
MISCELLANEOUS	
	DIRECTION OF AIRFLOW
	FLEX DUCT (MAX LENGTH 4 FT)
	MITERED ELBOW W/ TURNING VANES

ABBREVIATIONS - CONTROLS

ABBREVIATION	DEFINITION
BAS/BMS	BUILDING AUTOMATION/MANAGEMENT SYSTEM
DDC	DIRECT DIGITAL CONTROLS
DPS	DIFFERENTIAL PRESSURE SENSOR
EMS	ENERGY MANAGMENT SYSTEM
H-STAT	HUMIDISTAT
HS	HUMIDITY SENSOR
SOO	SEQUENCE OF OPERATIONS
T-STAT	THERMOSTAT
TS	TEMPERATURE SENSOR

ABBREVIATIONS - MECHANICAL

ABBREVIATION	DEFINITION
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
APD	AIR PRESSURE DROP
BDD	BACKDRAFT DAMPER
BOD	BOTTOM OF DUCT
DB	DRY BULB
DP	DEW POINT
EAT	ENTERING AIR TEMPERATURE
ECO	ECONOMIZER
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
FEI	FAN ENERGY INDEX
GRD	GRILLE(S), REGISTER(S), & DIFFUSER(S)
HR	HUMIDITY RATIO
HVLS	HIGH VOLUME LOS SPEED
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
LAT	LEAVING AIR TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MCDB	MEAN COINCIDENT DRY BULB
MCWB	MEAN COINCIDENT WET BULB
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OED	OPEN END DUCT
PROP	PROPELLER
RAT	RETURN AIR TEMPERATURE
RH	RELATIVE HUMIDITY
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
TOD	TOP OF DUCT
U/C	UNDERCUT
VAV	VARIABLE AIR VOLUME
VRF/VRV	VARIABLE REFRIGERANT FLOW/VOLUME
WB	WET BULB

ABBREVIATIONS - MECHANICAL EQUIPMENT DESIGNATIONS

DESIGNATION	DEFINITION
DH	DUCT HEATER
EF	EXHAUST FAN
LVR	LOUVER
UH	UNIT HEATER

ABBREVIATIONS - DUCT SYSTEMS

ABBREVIATION	DEFINITION
EA	EXHAUST AIR
OA	OUTSIDE AIR
TA	TRANSFER AIR

ABBREVIATIONS - GENERAL

ABBREVIATION	DEFINITION
ABV	ABOVE
ADJ	ADJUST/ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AREA HAVING JURISDICTION
AMB	AMBIENT
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
B.O.D.	BASIS OF DESIGN
BEL	BELOW
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CAP	CAPACITY
CC	CONTROLS CONTRACTOR
CENT	CENTRIFUGAL
CIRC	CIRCULAR/CIRCULATE/CIRCULATING
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
COND	CONDENSATE/CONDENSER
CONN(S)	CONNECTION(S)
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
D	DEPTH
DEG	DEGREE(S)
DEMO	DEMOLISH/DEMOLITION
DET	DETAIL
DIA / Ø	DIAMETER
DIFF	DIFFERENCE/DIFFERENTIAL
DIM(S)	DIMENSION(S)
DISC	DISCONNECT
DN	DOWN
DR	DRAIN
DWG(S)	DRAWING(S)
EC	ELECTRICAL CONTRATOR
EFF	EFFECTIVENESS/EFFICIENCY
EJ	EXPANSION JOINT
EL / ELEV	ELEVATION
ELB	ELBOW
ELEC	ELECTRIC/ELECTRICAL
ENGR	ENGINEER
EQUIP	EQUIPMENT
EVAP	EVAPORATION/EVAPORATIVE/EVAPORATOR
EWT	ENTERING WATER TEMPERATURE
EXIST / (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR/EXTERNAL
FC	FAIL CLOSED
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FLR	FLOOR
FO	FAIL OPEN
FRZ/FRZG	FREEZE/FREEZING
FTG	FITTING
GC	GENERAL CONTRACTOR
H / HGT	HEIGHT
HD	HEAD
HMD	HUMIDITY
HORIZ	HORIZONTAL
HTD	HEATED
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INNER DIAMETER
INSUL	INSULATE/INSULATION
INT	INTEGRAL/INTERIOR
INTL	INTERNAL
L	LENGTH
LRA	LOCKED ROTER AMPERES
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE

ABBREVIATIONS - CODES, STANDARDS, ORGANIZATIONS

ACRONYM	DEFINITION
AMCA	AIR MOVEMENT & CONTROL ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
IBC	INTERNATIONAL BUILDING CODE (2021)
IECC	INTERNATIONAL ENERGY CONSERVATION CODE (2021)
IFGC	INTERNATIONAL FUEL GAS CODE (2021)
IMC	INTERNATIONAL MECHANICAL CODE (2021)
IPC	INTERNATIONAL PLUMBING CODE (2021)
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NSF	NATIONAL SANITATINO FOUNDATION
PDI	PLUMBING DRAINAGE INSTITUTE
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORIES

ABBREVIATIONS - GENERAL

ABBREVIATION	DEFINITION
MAN	MANUAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MED	MEDIUM/MEDICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MODEL
MTD	MOUNTED
N.I.C.	NOT IN CONTRACT
NA	NOT APPLICABLE
NC	NOISE CRITERION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPHP	NAME PLATE HORSEPOWER
NPS	NOMINAL PIPE SIZE
NPSH	NET POSITIVE SUCTION HEAD
NR	NOT REQUIRED
NTS	NOT TO SCALE
NUM / #	NUMBER
OC	ON CENTER
OD	OUTER DIAMETER
PC	PLUMBING CONTRACTOR
PF	POWER FACTOR
PL	PLATE
PLBG	PLUMBING
PRESS	PRESSURE
QTY	QUANTITY
RAD	RADIUS
RECOV	RECOVERY
REF	REFRIGERANT
REG	REGULATOR
REQ'D	REQUIRED
REQMT(S)	REQUIREMENT(S)
REV	REVISION
RM	ROOM
RTN	RETURN
S.O.W.	SCOPE OF WORK
SAT	SOUND ATTENUATOR
SCH	SCHEDULE
SCHEM	SCHEMATIC
SERV	SERVICE
SHT	SHEET
SP	STATIC PRESSURE
SPEC(S)	SPECIFICATION(S)
SQR	SQUARE
STD	STANDARD
STRUCT	STRUCTURAL
TEMP	TEMPERATURE
TH	THERMOMETER
THRU	THROUGH
TOT	TOTAL
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VOL	VOLUME
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WIDTH
W/	WITH
W/O	WITHOUT
WPD	WATER PRESSURE DROP
WT	WEIGHT
▲P	PRESSURE CHANGE/DIFFERENCE
▲T	TEMPERATURE CHANGE/DIFFERENCE

ABBREVIATIONS - MATERIALS

ABBREVIATION	DEFINITION
ABS	ACRYLONITRILE-BUTADIENNE STYRENE
AL	ALUMINUM
AR(C)	ACID RESISTANT (COATING)
CI	CAST IRON
CONC	CONCRETE
CP	CHROME PLATED
CPVC	CHLORINATED POLYVINYL CHLORIDE
ENAM	ENAMEL
FIN	FINISH/FINISHED
GA	GAUGE
GALV	GALVANIZED
NB	NICKEL BRONZE
PB	POLISHED BRONZE
PVC	POLYVINYL CHLORIDE
RB	ROUGH BRONZE
SS	STAINLESS STEEL
STL	STEEL
THD	THREADED
VP	VANDAL PROOF

MECHANICAL GENERAL NOTES:

1. ALL EQUIP MFRS/MODELS ON DWGS ARE BASIS OF DESIGN. IT IS NOT INTENDED TO REQUIRE SOLE SOURCING OF EQUIP.
2. ALL EQUIP & DUCTWORK SHALL BE INSTALLED IN ACCORDANCE W/ THE REQMTS OF THE IBC IMC & IFGC & LATEST PUBLISHED SMACNA STDS.
3. MECH PLANS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE THEIR WORK W/ OTHER TRADES & ACTUAL JOB SITE CONDITIONS. CONTRACTOR SHALL FIELD VERIFY QTYS & DIMS.
4. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, DUCTWORK, HANGERS, FTGS, OFFSETS, INSUL, ACCESSORIES, ETC. LOGICALLY REQ'D FOR A COMPLETE FUNCTIONAL AIR DELIVERY SYSTEM.
5. DUCT DIMS ON DWGS ARE INSIDE DIMS. MIN DUCTWORK GA SHALL BE IN COMPLIANCE W/ THE LATEST PUBLISHED SMACNA HVAC DUCT CONSTRUCTION STDS.
6. CONTRACTOR SHALL COORDINATE ALL FINAL EQUIP, GRILLE, REGISTER, & DIFFUSER PLACEMENTS.
7. ALL PIPING THAT COMES IN CONTACT W/ A DISSIMILAR METAL SHALL BE PROTECTED AGAINST GALVANIC CORROSION.
8. REMOTE CONCEALED CEILING CABLE CONTROL SYSTEMS ARE REQ'D FOR ALL MAN VOLUME DAMPERS INSTALLED ABV HARD LID CEILINGS UNLESS THE DAMPERS ARE ACCESSIBLE FROM THE FACE OF AN ASSOCIATED GRILLE, REGISTER, OR DIFFUSER.
9. SEISMIC SUPPORTS/RESTRAINTS SHALL BE PROVIDED FOR ALL DUCTWORK & EQUIP IN ACCORDANCE W/ THE REQMTS OF ASCE 7 STANDARDS. A DIFFERED SUBMITTAL FROM A QUALIFIED STRUCT ENGR SHALL BE PROVIDED BY THE CONTRACTOR.
10. REFER TO STRUCT DETAILS FOR ALL EQUIP & DUCT PENETRATIONS THRU ROOF. CONTACT ENGR IF DETAIL IS NOT PRESENT.
11. EXPOSED DUCTWORK SHALL HAVE ALL LABELS & WRITING REMOVED.
12. ALL AIR SYSTEMS SHALL BE BALANCED IN ACCORDANCE W/ THE LATEST PUBLISHED ASHRAE STANDARD 111 OR EQUAL. AFTER AIR SYSTEM BALANCING HAS BEEN COMPLETED, MARK ALL BALANCING DAMPERS TO PERMANENTLY INDICATE FINAL POSITION; IE AN ARROW OR OUTLINE OF BALANCING HANDLE POSITION.

ABBREVIATIONS - UNITS OF MEASURE

UNIT	DEFINITION
A / AMP	AMPERE(S)
BTU	BRITISH THERMAL UNIT(S)
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
dB(A)	DECIBLE (ADJUSTED)
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
ft² / SF	SQUARE FEET
FT / '	FEET
GAL	GALLON(S)
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	HOUR(S)
HZ	HERTZ
IN / "	INCHES
IN WC / IN WG	INCHES OF WATER COLUMN/GAUGE
KW	KILOWATT(S)
LB(S)	POUND(S)
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
MBH	1,000 BTU PER HR
MIN	MINUTE(S)
MPH	MILES PER HOUR
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS/ROTATIONS PER MINUTE
V	VOLT(S)
W	WATT(S)
°F	DEGREES FAHRENHEIT

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DESIGN

PROFESSIONAL ENGINEER
No.12292400-2202
BRIAN JAY GRISENTI
STATE OF UTAH
11/5/2024

PRINCIPAL :
MANAGER :
REVIEWER : BJG
DRAFTER : BJG

PROJECT

2024-0063
05 NOVEMBER 2024

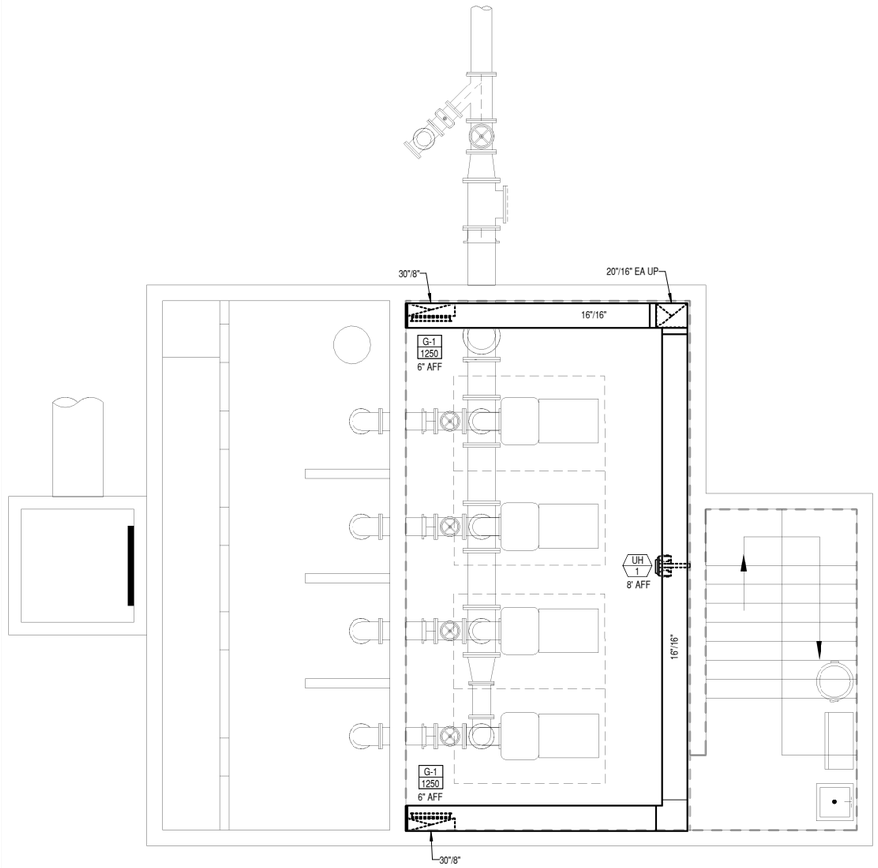
PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

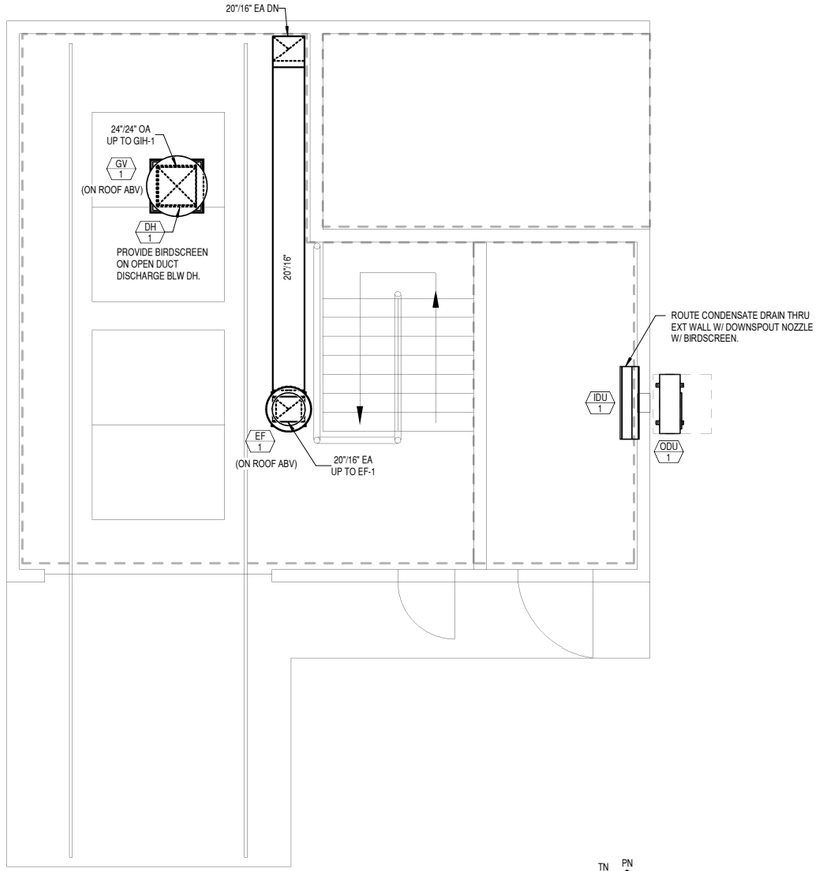
MECHANICAL NOTES, LEGENDS, & BOD

28 OF 63

M-001



2 LOWER FLOOR MECHANICAL PLAN
1/4" = 1'-0"



1 MAIN FLOOR MECHANICAL PLAN
1/4" = 1'-0"

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PROFESSIONAL ENGINEER
No.12292400-2202
BRIAN JAY GRISENTI
STATE OF UTAH
11/5/2024

PRINCIPAL :
MANAGER :
REVIEWER : BJG
DRAFTER : BJG

PROJECT

2024-0063

05 NOVEMBER 2024

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

MECHANICAL PLAN

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M-101

EXHAUST FAN SCHEDULE

CALLOUT EQUIP	#	LOCATION	SERVICE	TYPE	DRIVE TYPE	AIRFLOW @ ELEV [CFM]	ESP [IN WC]	FAN SPEED [RPM]	FAN CLASS (AMCA)	WHEEL SIZE [IN]	ELEC			MIN EFF [FEI]	MAX SOUND LVL [dBA/SONES]	DUCT CONN		DIMS			WT [LBS]	MFR	MODEL	NOTES
											MOTOR SIZE [HP]	VOLT [V]	Φ			W	H	L	W	H				
EF	1	ROOF	BLDG EA	CENTRIFUGAL UP-BLAST	DIRECT	1,800	0.75	1725	0	14.625	1	120	1	1	80/20	16"	16"	29"	29"	39"	150	GREENHECK	CUE-140	1-4

NOTES:
1. PROVIDE W/ 12" TALL ROOF CURB. FIELD VERIFY FINAL CONDITION WILL ELEVATE EQUIP 8" MIN ABV ROOF MEMBRANE.
2. PROVIDE W/ BDD.
3. PROVIDE W/ FACTORY MTD & WIRED DISC & STARTER.
4. AMCA CERTIFIED FOR SOUND & AIR PERFORMANCE & FEI RATING.

GRAVITY VENTILATOR SCHEDULE

CALLOUT EQUIP	#	LOCATION	SERVICE	TYPE	MAX THROAT VEL [FPM]	AIRFLOW @ ELEV [CFM]	MAX ESP [IN WC]	DUCT CONN		DIMS			WT [LBS]	MFR	MODEL	NOTES
								W	H	L	W	H				
GV	1	ROOF	OA INTAKE	DOME	900	2,500	0.25	24"	24"	39"	39"	23"	55	GREENHECK	GRSI	1-3

NOTES:
1. PROVIDE W/ 12" TALL ROOF CURB. FIELD VERIFY FINAL CONDITION WILL ELEVATE EQUIP 8" MIN ABV ROOF MEMBRANE.
2. PROVIDE W/ INT INSECT SCREEN.
3. DUCTED INSTALL.

DUCT HEATER SCHEDULE

CALLOUT EQUIP	#	LOCATION	TYPE	AIRFLOW	MIN CAP	STAGES	DESIGN TEMPS		ELEC				DUCT CONNS		DIMS (HxWxD)	WT [LBS]	MFR	MODEL	NOTES
							EAT DB	LAT DB	HTR	VOLT	Φ	AMPS	W	H					
DH	1	UPPER RM	ELEC	1,800 CFM	116,615 Btu/h	2	0 °F	50 °F	35 kW	480 V	3	45 A	24"	24"			GREENHECK	IDHB	1-3

NOTES:
1. PROVIDE W/ INT DISC SWITCH.
2. PROVIDE W/ DUCT T-STAT SET TO MAINTAIN DISCHARGE AIR TEMP @ 50° F.
3. PROVIDE W/ AIR PROVING SWITCH SO HEATER DOES NOT RUN IF EF-1 IS NOT RUNNING.

UNIT HEATER SCHEDULE

CALLOUT EQUIP	#	LOCATION	TYPE	FAN		MIN CAP	STAGES	DESIGN TEMPS		ELEC					DIMS (HxWxD)	WT [LBS]	MFR	MODEL	NOTES
				AIRFLOW	SPEED [RPM]			EAT DB	LAT DB	MOTOR SIZE	HTR	VOLT	Φ	AMPS					
UH	1	LOWER RM	ELEC	910 CFM	1530	39,980 Btu/h	2	50 °F	100 °F	0.05 hp	15 kW	480 V	3	18 A	22"x19"x13"	55	QMARK	MUH	1-3

NOTES:
1. PROVIDE W/ INT DISC SWITCH.
2. PROVIDE W/ INT T-STAT SET TO MAINTAIN SPACE TEMP @ 50° F
3. MOUNT 7' AFF.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	TYPE	SYSTEM	MATERIAL	FINISH	MTG	DAMPER	MAX SOUND LVL [NC]	MAX AIRFLOW [CFM]	MAX PRESS DROP [IN WC]	NECK SIZE	MODULE SIZE	MFR	MODEL	NOTES
G-1	GRID CORE GRILLE	EA	AL	WHITE	DUCT	SEE PLANS	30	910	0.1	24"/18"	26"x14"	ANEMOSTAT	GC	1

NOTES:
1. PROVIDE FINISH SAMPLE & CONFIRM W/ ARCH/OWNER.

DUCT SYSTEM SCHEDULE

MARK	SYSTEM	MATERIAL	PRESS CLASS (SMACNA)	SEAL CLASS (SMACNA)	INSUL		NOTES
					COND SPACE	EXT / UNCOND SPACE	
OA	OUTSIDE AIR	GALV STL	-1/2"	C	R-6	NA	1
EA	EXHAUST AIR	GALV STL	-1"	A	NR	NA	1

NOTES:
1. ALL DUCTWORK SHALL BE INSTALLED AS PER THE REQMTS OF IMC, IECC, & SMACNA 2020 HVAC DUCT CONSTRUCTION STD.

HEAT PUMP OUTDOOR UNIT SCHEDULE

CALLOUT EQUIP	#	LOCATION	SERVICE	TYPE	REF TYPE	REF CHARGE	COOLING		ELEC									MAX SOUND PRESS LVL	PIPE CONNS		DIMS (LxWxH)	WT	MFR & MODEL	NOTES
							NOM CAP	MIN EFF [SEER2]	COMPRESSOR			FAN			MCA	MOCP	VOLT	Φ		LI	SU			
									QTY	LRA	RLA	QTY	MOTOR SIZE	FLA										
ODU	1	BLDG EXT - SE	ELEC RM	COOLING ONLY INVERTER	R-410A	8.00 lbf	24,000 Btu/h	13.4	1	11 A	7 A	1	86 W	0.4 A	19 A	26 A	208 V	1	80 dBA	3/8"	5/8"	38"x15"x38"	155 lbf	MITSUBISHI PUY-A24NHA7	1-5

NOTES:
1. AIR CONDITIONER EQUIP SHALL MEET MIN EER, IEER, SEER, & COP VALUES BASED ON AHRI 1230 TEST METHOD AS PER THE REQMTS OF IECC TABLE C403.3.2(9).
2. PROVIDE W/ LOW AMBIENT COOLING KIT.
3. PROVIDE W/ PANEL HEATER KIT TO PREVENT ICE BUILDUP ON OUTDOOR DRAIN PAN.
4. PROVIDE W/ STAND TO KEEP UNIT 12" MIN ABV GROUND LVL.
5. REF CHARGE MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.

HEAT PUMP INDOOR UNIT SCHEDULE

CALLOUT EQUIP	#	LOCATION	SERVICE	TYPE	REF TYPE	MIN OA	SA	COOLING				ELEC					MAX SOUND PRESS LVL	PIPE CONNS			DIMS (WxDxH)	WT	MFR & MODEL	NOTES
								NOM CAP	DESIGN TEMPS			MOTOR SIZE	FLA	MCA	VOLT [V]	Φ		LI	SU	CD				
									EAT DB	EAT WB	LAT DB													
IDU	1	ELEC RM	ELEC RM	WALL MOUNT	R-410A	0 CFM	600 CFM	24000.0 Btu/h	85 °F	70 °F	45 °F	69 W	0.27 A	1 A	208 V	1	60 dBA	3/8"	5/8"	3/4"	47"x12"x15"	50 lbf	MITSUBISHI PKA-A24KA8	1-4

NOTES:
1. PROVIDE W/ FACTORY MTD & WIRED DISC SWITCH. POWERED BY OUTDOOR UNIT.
2. ROUTE CONDENSATE DRAIN THRU EXT WALL & TERMINATE W/ DOWNSPOUT NOZZLE 18" AFF.
3. ROUTE REF LINESET BETWEEN ODU & IDU.
4. PROVIDE W/ PROGRAMMABLE DDC T-STAT SET TO MAINTAIN SPACE TEMP TO 85° F.

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DESIGN

PROFESSIONAL ENGINEER
No.12292400-2202
BRIAN JAY GRESENZ
STATE OF UTAH
11/5/2024

PRINCIPAL :
MANAGER :
REVIEWER : BJG
DRAFTER : BJG

PROJECT

2024-0063
05 NOVEMBER 2024

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

MECHANICAL SCHEDULES

30 OF 63

M-601

LIGHTING

- FIXTURE - CHAIN, RECESSED, SURFACE OR PENDANT HUNG NUMBER INDICATES FIXTURE TYPE
- WALL MOUNTED LIGHT FIXTURE, NUMBER INDICATES TYPE OF FIXTURE
- EXIT LIGHT, TOP MOUNTED, DARKENED AREA REPRESENTS LETTERED FACE
- EXIT LIGHT, WALL MOUNTED, DARKENED AREA REPRESENTS LETTERED FACE

SWITCHES (+48" UNLESS NOTED)

- $ SINGLE POLE SWITCH
- $3 THREE-WAY SWITCH

CIRCUITING

- WIRING CONCEALED IN CEILING, WALL OR FLOOR
- WIRING EXISTING
- CROSSLINES INDICATE NUMBER OF #12 CONDUCTORS. GROUND IS REPRESENTED BY CROSSLINE WITH DOT ON TOP. OTHER CONDUCTORS AND CONDUIT AS INDICATED.
- A-1,3 BRANCH CIRCUIT HOMERUN TO PANELBOARD: NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATION IDENTIFIES PANEL AND CIRCUIT NUMBER(S).
- FLEXIBLE CONDUIT

PANELBOARDS AND POWER EQUIPMENT

- SURFACE MOUNTED PANELBOARD AND CABINET
- SWITCHBOARD OR DISTRIBUTION PANELBOARD (AS NOTED)
- SAFETY DISCONNECT SWITCH - UNFUSED
- COMBINATION STARTER & DISCONNECT SWITCH
- F FUSED DISCONNECT
- 1/2 MOTOR OUTLET, HORSEPOWER AS INDICATED
- REFERS TO MECHANICAL OR OWNERS EQUIPMENT ITEM SEE SCHEDULES

RECEPTACLES (+18" UNLESS NOTED)

- DUPLEX RECEPTACLE, NEMA 5-20R, GROUNDING TYPE
- QUAD RECEPTACLE (DOUBLE DUPLEX), NEMA 5-20R, GROUNDING TYPE
- GROUND ROD - 3/4" x 10'-0"

ONE-LINE DIAGRAM

- TRANSFORMER
- FUSE
- 3 CURRENT TRANSFORMER, NUMBER AS INDICATED
- DISCONNECT SWITCH
- 200 AT / 225 AF CIRCUIT BREAKER TRIP SETTING / CIRCUIT BREAKER FRAME SIZE
- x CONDUIT & CONDUCTOR CALLOUT

GROUNDING

- GROUND ROD
- GROUND WELL

ABBREVIATIONS

EX1	KEYED NOTE CALLOUT - LETTERS & NUMBERS AS INDICATED
A	AMPERE
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATELY
BC	BARE COPPER
C	CONDUIT
CONC	CONCRETE
CU	COPPER
FA	FIRE ALARM
FLR	FLOOR
FT	FEET
GFI	GROUND FAULT CIRCUIT-INTERRUPTER
GND or GRD	GROUND
IN	INCHES
KVA	KILOVOLT AMPERE
LED	LIGHT EMITTING DIODE
MDP	MAIN DISTRIBUTION PANELBOARD
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION
O.C.	ON CENTER
RM	ROOM
TYP	TYPICAL
V	VOLT
W	WATT
w/	WITH
WP	WEATHERPROOF
+12"	MOUNTING HEIGHT ABOVE FINISHED FLOOR OR GRADE

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DESIGN

LICENSED PROFESSIONAL ENGINEER
35668
MARC L. GOULD
11/05/2024
STATE OF UTAH

PRINCIPAL :
MANAGER :
REVIEWER : MLG
DRAFTER : JAC

PROJECT

2024-0063

05 NOVEMBER 2024

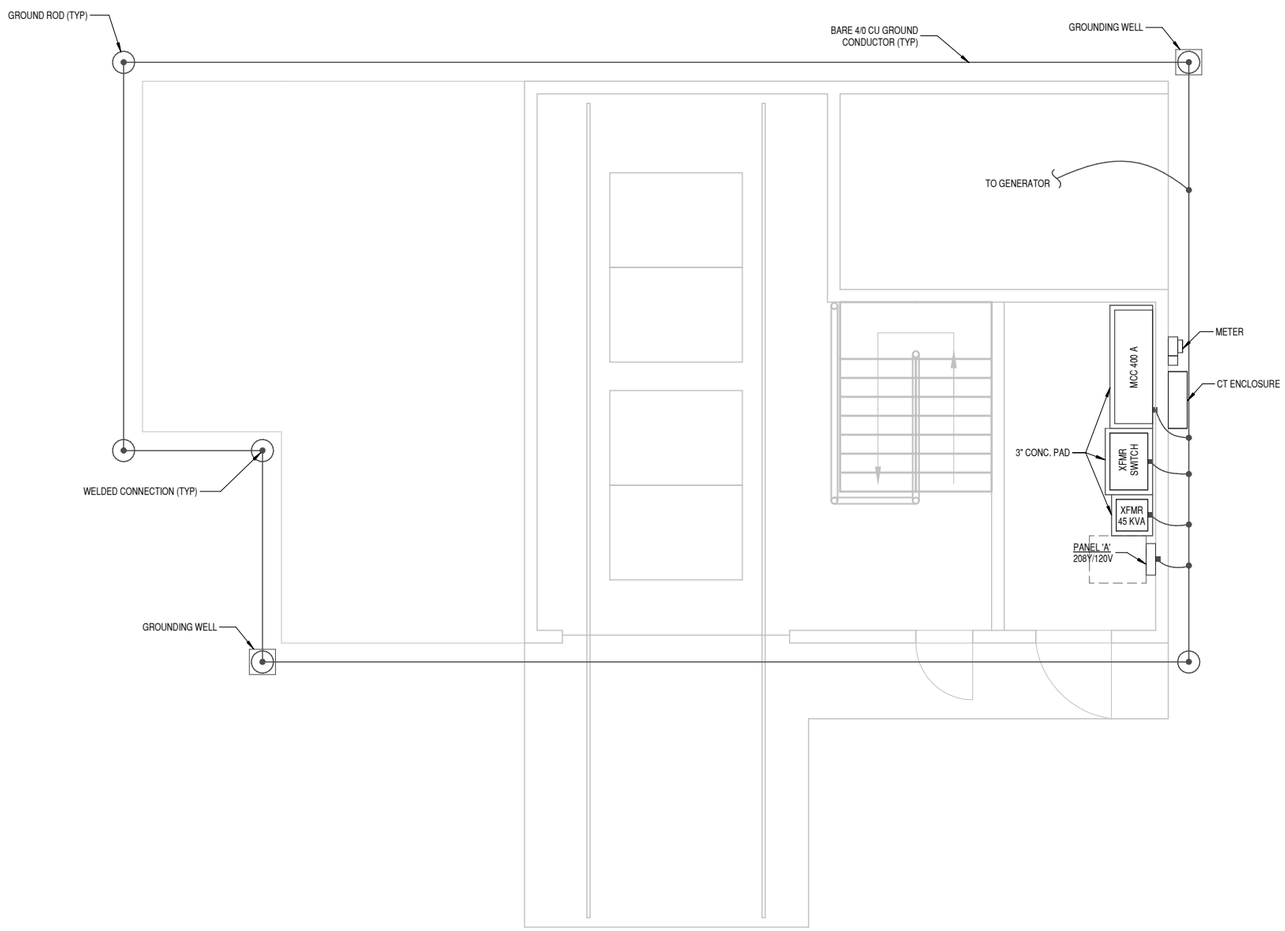
PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

ELECTRICAL LEGEND

31 OF 63

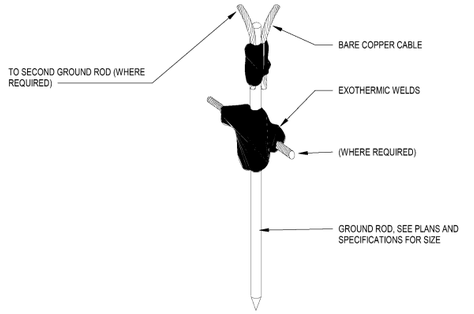
E-001



ELECTRICAL GROUNDING MAIN FLOOR PLAN

2C — 1/4" = 1'-0"

0 2' 4' 8'



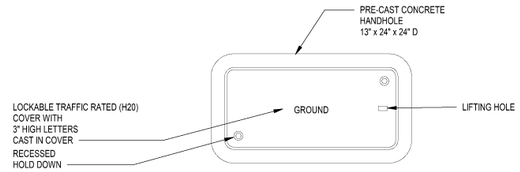
NOTE:

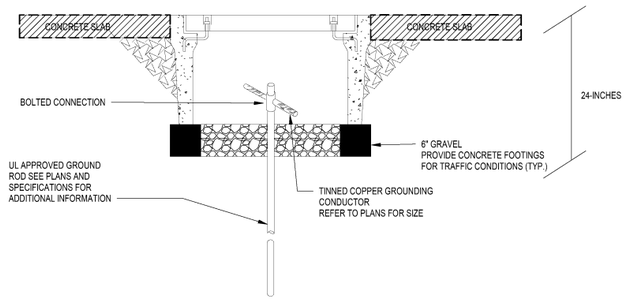
ALL GROUND RODS SHALL HAVE A RESISTANCE OF 10 OHMS OR LESS UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS. PROVIDE AN ADDITIONAL ROD IF RESISTANCE IS NOT ACHIEVED WITH ONE ROD.

SPACE ADDITIONAL ROD FROM THE FIRST ROD A DISTANCE OF 1.5 TIMES THE LENGTH OF THE ROD.

6J TYPICAL GROUND ROD DETAIL

1/8" = 1'-0"





1I GROUND ACCESS WELL DETAIL

1/8" = 1'-0"

CONTACT INFORMATION

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1	JAP	7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

LICENSED PROFESSIONAL ENGINEER
35668
MARC L. GOULD
11/05/2024
STATE OF UTAH

PRINCIPAL :
MANAGER :
REVIEWER : MLG
DRAFTER : JAC

PROJECT

2024-0063

05 NOVEMBER 2024

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

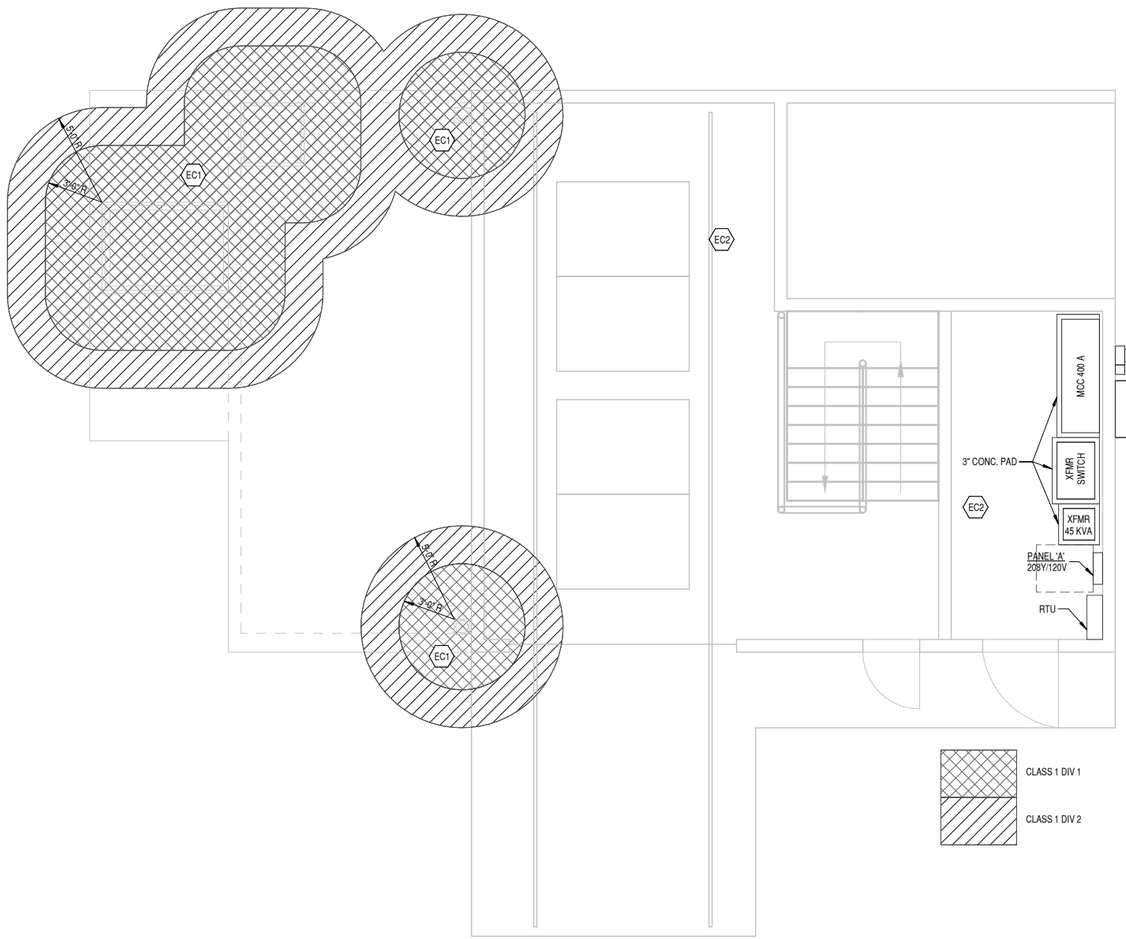
ELECTRICAL GROUNDING MAIN FLOOR PLAN

32 OF 63

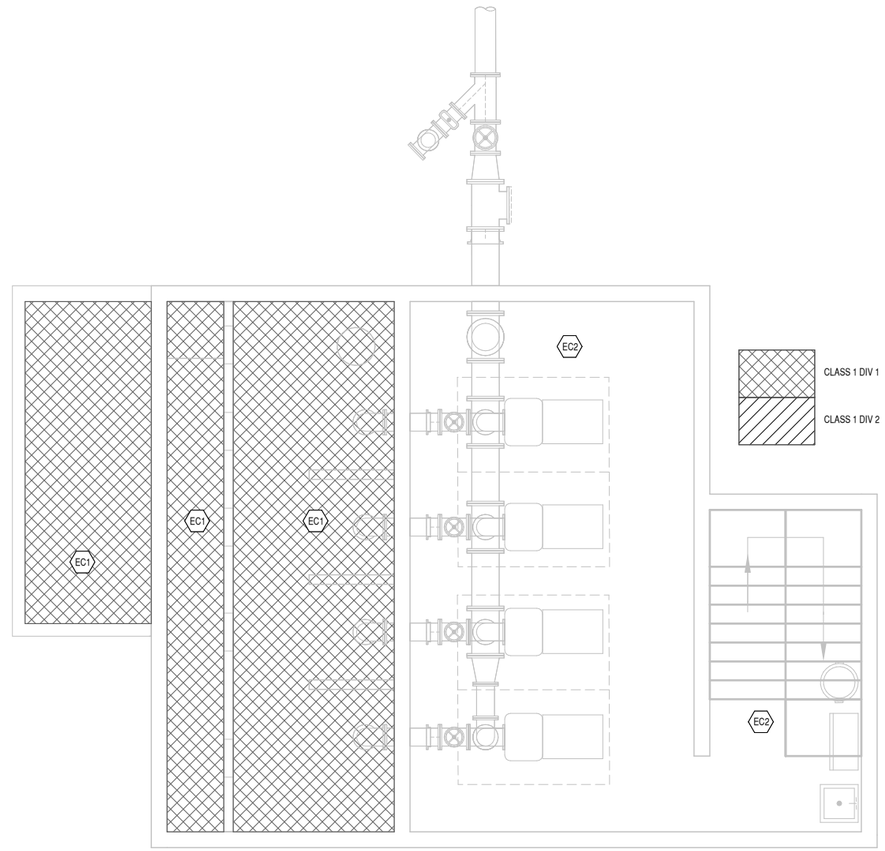
EG101

ELECTRICAL CLASSIFICATION KEYED NOTES

MARK	NOTE
EC1	AREA CLASSIFICATION: CLASS 1 DIV 1, 3 FEET FROM ANY OPENING OR VENTS. CLASS 1 DIV 2, 5 FEET FROM ANY OPENING OR VENTS.
EC2	AREA CLASSIFICATION: UNCLASSIFIED AREA IS PROVIDED WITH CONTINIOUS VENTILATION OF 6 OR MORE AIR CHANGES PER HOUR.



2A ELECTRICAL CLASSIFICATION MAIN FLOOR PLAN
1/4" = 1'-0"



2H ELECTRICAL CLASSIFICATION LOWER FLOOR PLAN
1/4" = 1'-0"

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ELECTRICAL CLASSIFICATION PLANS

33 OF 63

EK101

ELECTRICAL CLASSIFICATION KEYED NOTES

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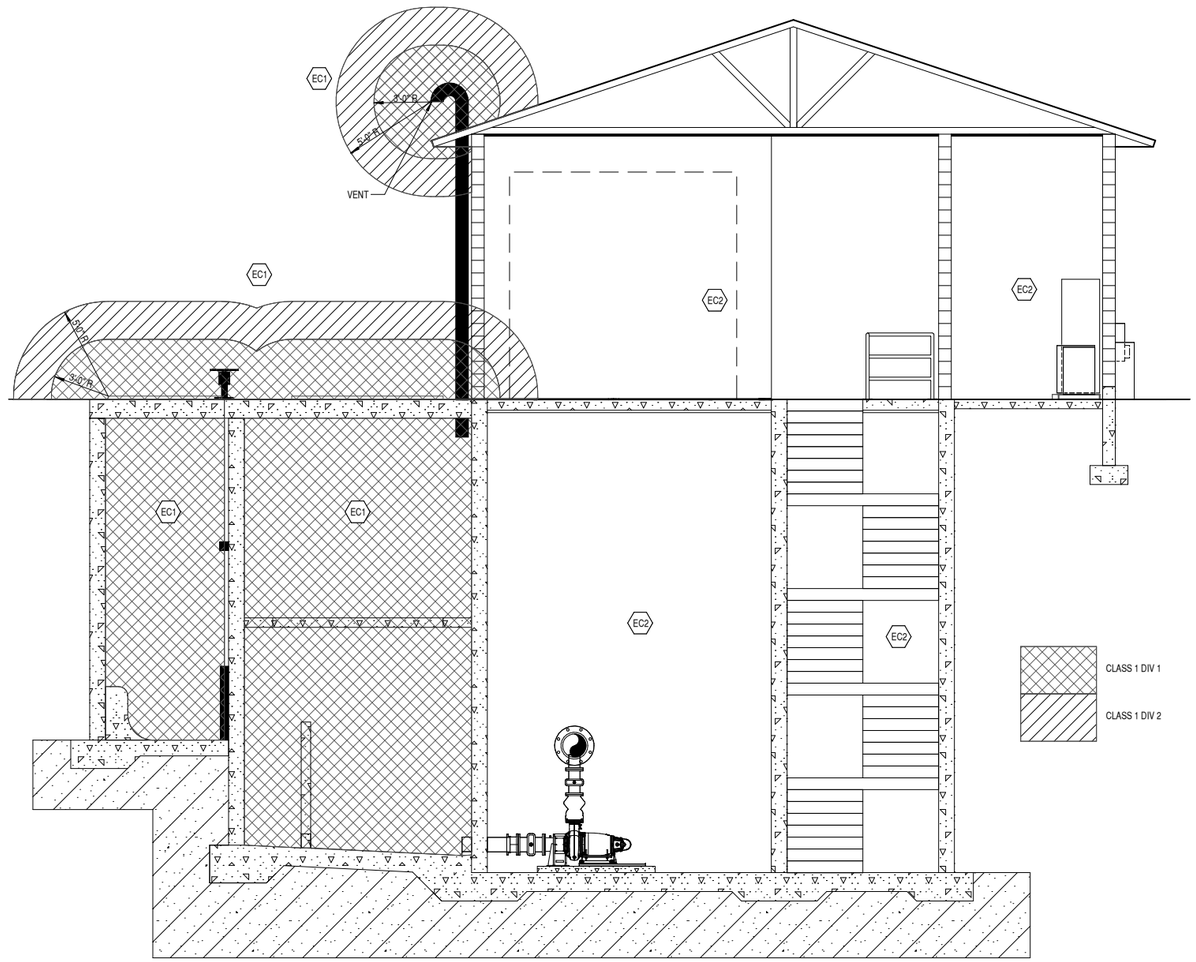
EC2	AREA CLASSIFICATION: UNCLASSIFIED AREA IS PROVIDED WITH CONTINIOUS VENTILATION OF 6 OR MORE AIR CHANGES PER HOUR.



1C ELECTRICAL CLASSIFICATION SECTION

1/4" = 1'-0"

0 2' 4' 8'

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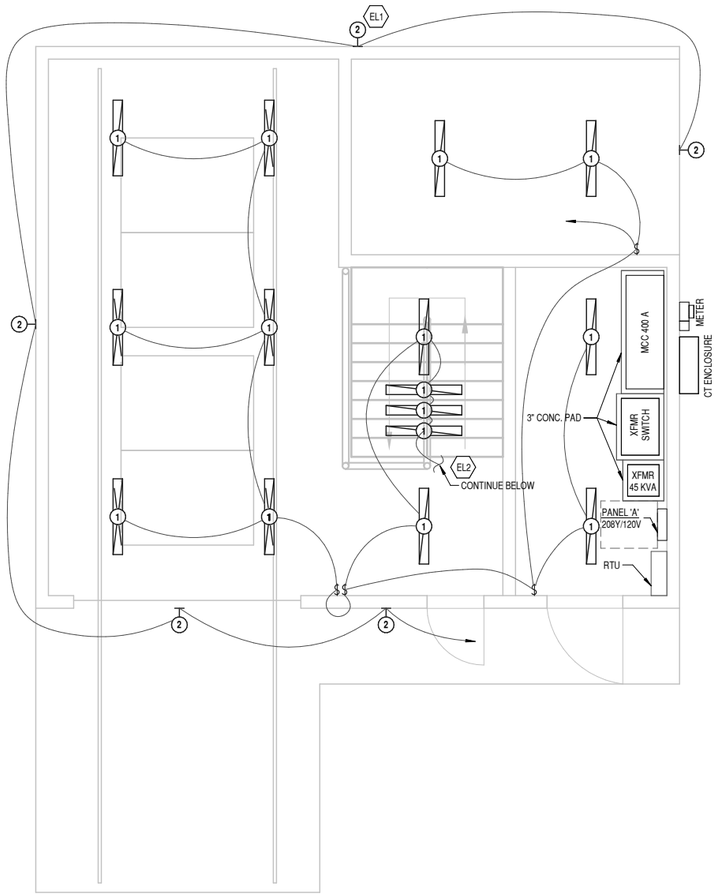
ELECTRICAL CLASSIFICATION SECTION

34 OF 63

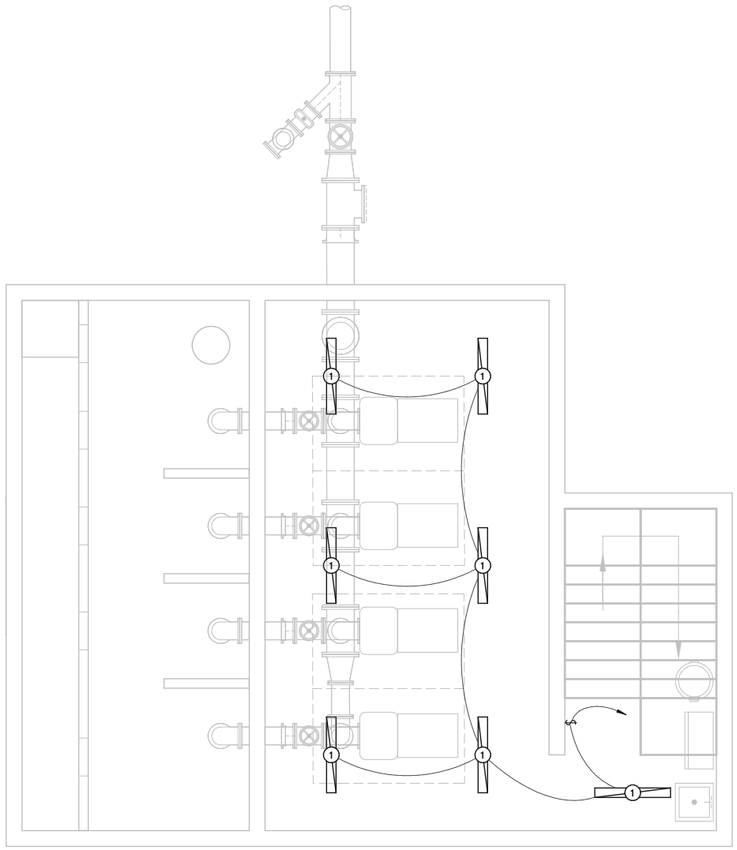
EK301

ELECTRICAL LIGHTING KEYED NOTES

MARK	NOTE
EL1	EXTERIOR LIGHTS WITH INTERGRAL PHOTOCELL AND MOTION SENSOR.
EL2	PROVIDE LIGHTS IN STAIR WELL AT EACH LEVEL BETWEEN TOP AND BOTTOM FLOORS.



2B ELECTRICAL LIGHTING MAIN FLOOR PLAN
1/4" = 1'-0"



2H ELECTRICAL LIGHTING LOWER FLOOR PLAN
1/4" = 1'-0"

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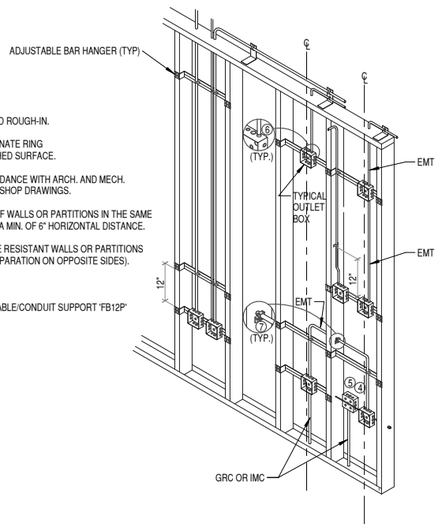
ELECTRICAL LIGHTING PLANS

35 OF 63

EL101

LIGHT FIXTURE SCHEDULE

NO	DESCRIPTION	VOLTS	MTG.	LENS	FINISH	LAMPS					BALLAST/DRIVER					MANUFACTURER & CATALOG NUMBER (NO SUBSTITUTIONS WITHOUT PRIOR APPROVAL) NOTE COMMISSION ALL LIGHTING CONTROLS	DETAILS
						TYPE			NO. OF LAMPS	LAMP TYPE	TYPE			NO. PER LUMINAIRE	INPUT WATTS		
						F	H	L			S	E	0				
T-1	LED STRIP	MVOLT	CEILING SURFACE	ACRYLIC	WHITE			*	1	LED 4000K		*		1	22	LITHONIA CSS L48 AL04 MVOLT SWW3 80 CRI	
1E	LED STRIP W/ EM BATTERY	120	CEILING SURFACE	ACRYLIC	WHITE			*	1	LED 4000K		*		1	22	LITHONIA CSS L48 AL04 MVOLT SWW3 80 CRI IOTA 1LBP CP10 HE SD A	
T-2	LED WALL PACK	MVOLT	WALL +9'-0"	ACRYLIC	BRONZE			*	1	LED 3000K		*		1	27	LITHONIA DSXW1 10C 350 30K T2M MVOLT BBW PIR1FC3VE DDBXD	INTERGREAL MOTION / AMBIENT LIGHT SENSOR

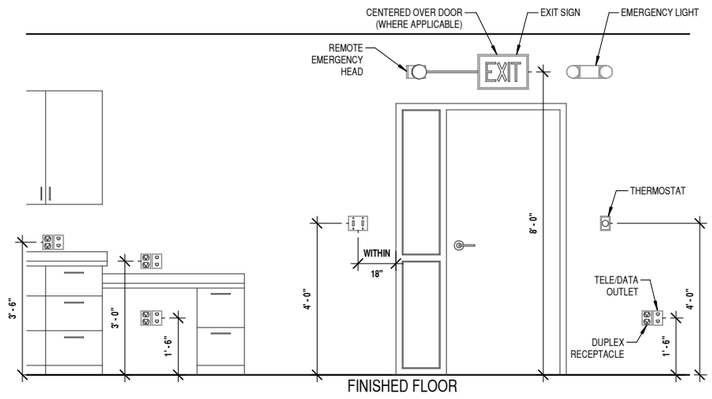


NOTES:

1. TYPICAL FOR WOOD AND METALS STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINAL FINISHED SURFACE.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH BC 711.3.2 (24" SEPARATION ON OPPOSITE SIDES).
6. EMT CONNECTOR.
7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT "FB12P" OR EQUIVALENT.

2B TYPICAL ROUGH-IN DETAIL

1/2" = 1'-0"



2F MOUNTING HEIGHT DETAIL

NONE

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2024-0063

05 NOVEMBER 2024

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

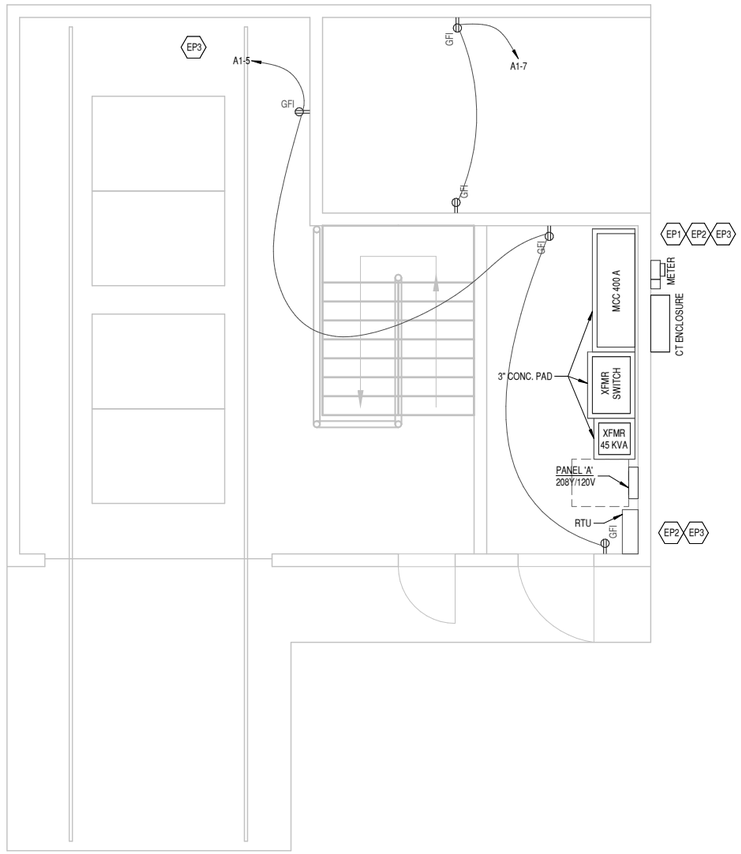
ELECTRICAL LIGHTING SCHEDULE & DETAILS

36 OF 63

EL501

ELECTRICAL POWER KEYED NOTES

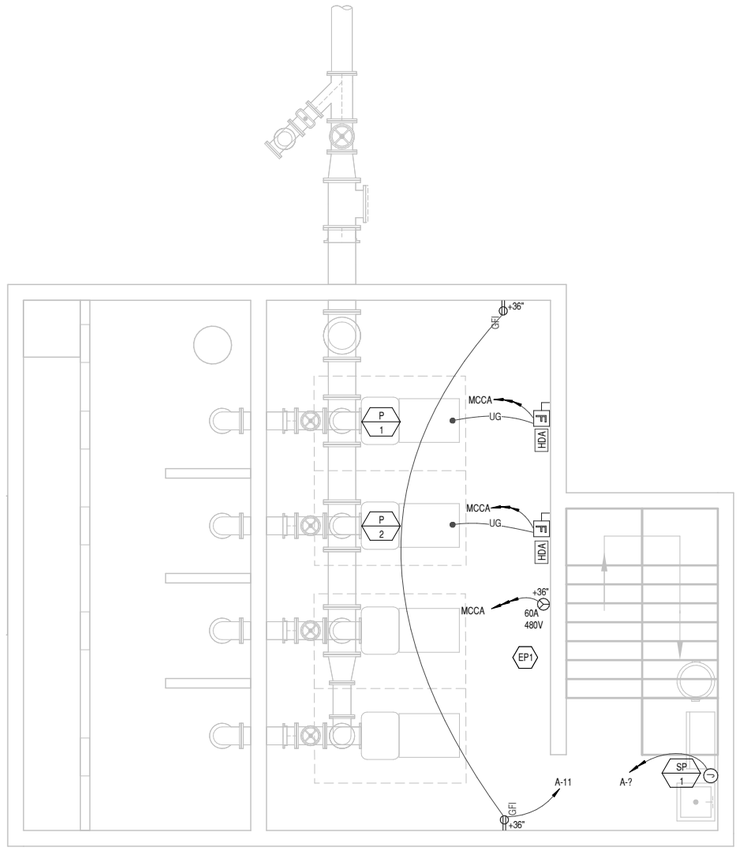
MARK	NOTE
EP1	PROVIDE CONDUITS FOR FUTURE PUMP POWER AND CONTROLS.
EP2	PROVIDE CONCUIT SLEEVES THROUGH FLOOR FOR FUTURE CONTROLS AND POWER.
EP3	PROVIDE 2 EA 3/4" CONDUITS FROM RTU AND PANEL "A" FOR FUTURE WET WELL LEVEL INSTRUMENTS.



2B ELECTRICAL POWER MAIN FLOOR PLAN

1/4" = 1'-0"

0 2' 4' 8'



2H ELETRICAL POWER LOWER FLOOR PLAN

1/4" = 1'-0"

0 2' 4' 8'

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LICENSED PROFESSIONAL ENGINEER 35668 MARC L. GOULD 11/05/2024 STATE OF UTAH

PRINCIPAL :
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REVIEWER : MLG
DRAFTER : JAC

PROJECT

2024-0063

05 NOVEMBER 2024

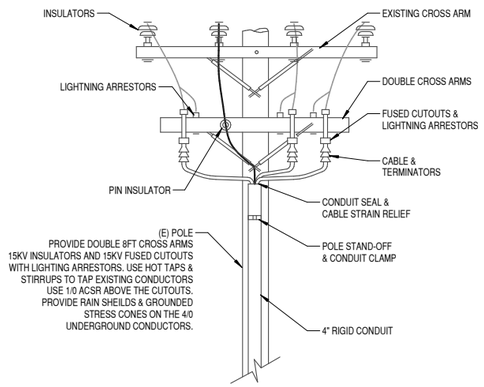
PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

ELECTRICAL POWER PLANS

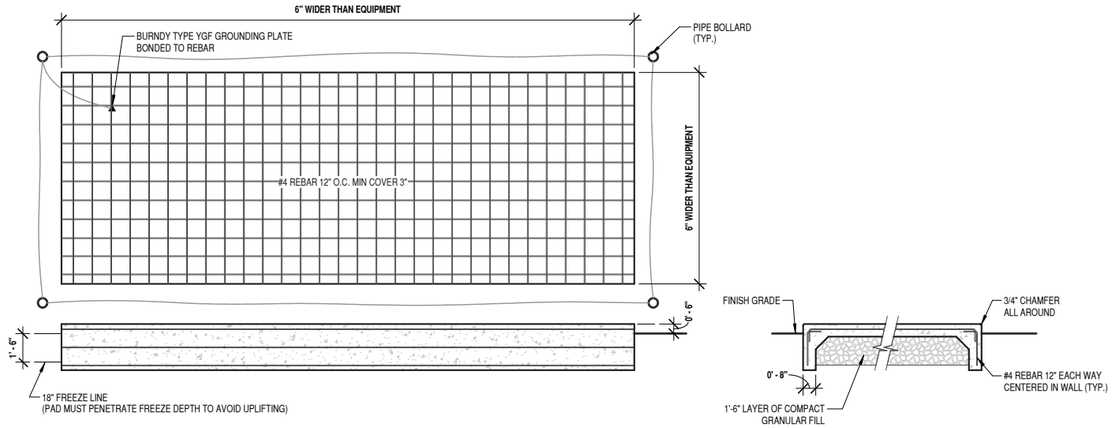
37 OF 63

EP101



6A PRIMARY CONNECTION AT POLE DETAIL

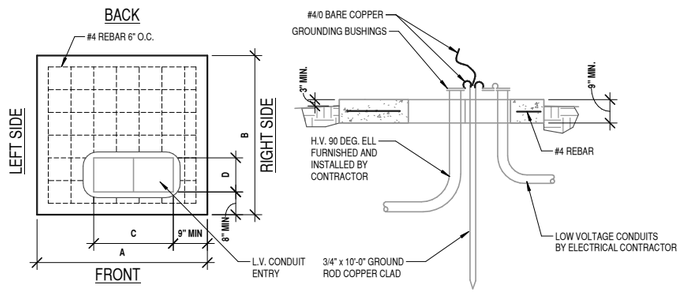
NONE



6F GENERATOR PAD DETAIL

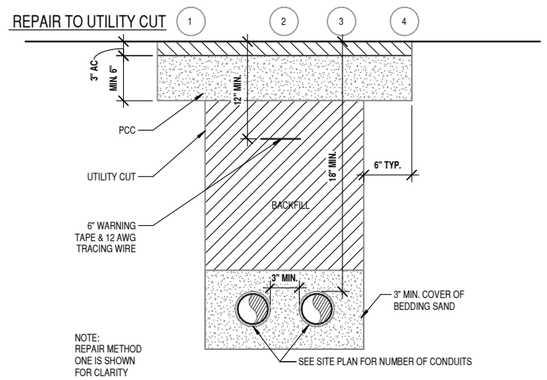
1/4" = 1'-0"

A	100"
B	105"
C	60"
D	16"
E	30"



1A TYPICAL TRANSFORMER PAD INSTALLATION

NONE



CONDITION: A CUT FOR UTILITY INSTALLATION OR REPAIR. OBTAIN A DIGGING PERMIT PRIOR TO ANY EXCAVATIONS.

REPAIR METHOD: (1) MATCH EXISTING BASE COURSE AND ASPHALT WITH A MINIMUM OF 8" UNTREATED BASE COMPACTED TO 95% AND 3" ASPHALT.

REPAIR METHOD: (2) 4000 PSI CONCRETE. MATCH EXISTING THICKNESS.

REPAIR METHOD: (3) COMPACTED BACK FILL- 4" COMPACTED TOPSOIL SOD TO MATCH EXISTING GRASS, OR 3" LAYER OF 3/4" "WILDCAT RED" DECORATIVE ROCK AS NEEDED.

REPAIR METHOD: (4) UNDERSLAB - COMPACTED BACKFILL, CONTRACTOR TO MATCH FLOOR THICKNESS, 12"- #4 DOWELS 18" O.C.

1F TYPICAL UNDERGROUND CONDUIT

NONE

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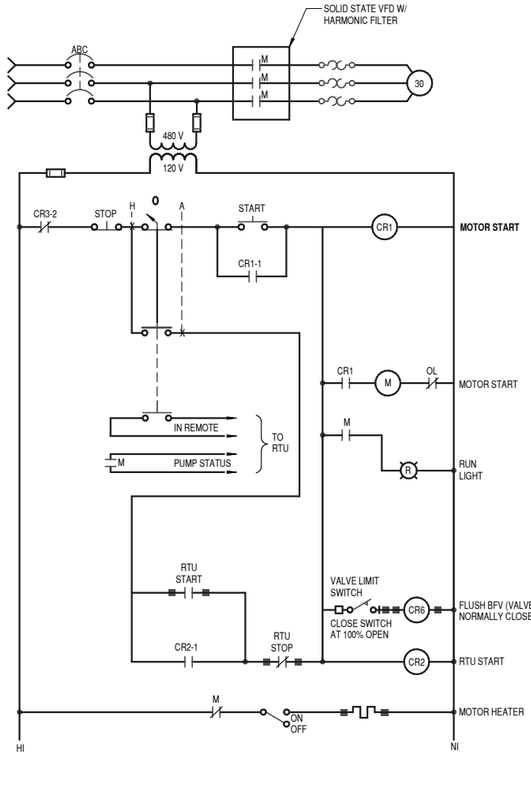
ELECTRICAL DETAILS

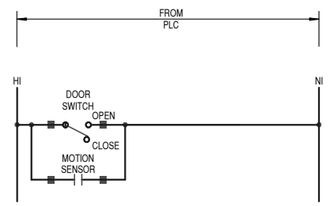
38 OF 63

EP501



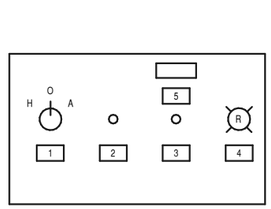
2A TYPICAL PUMP CONTROL SCHEMATIC

12" = 1'-0"



7G ENTRY ALARM SCHEMATIC

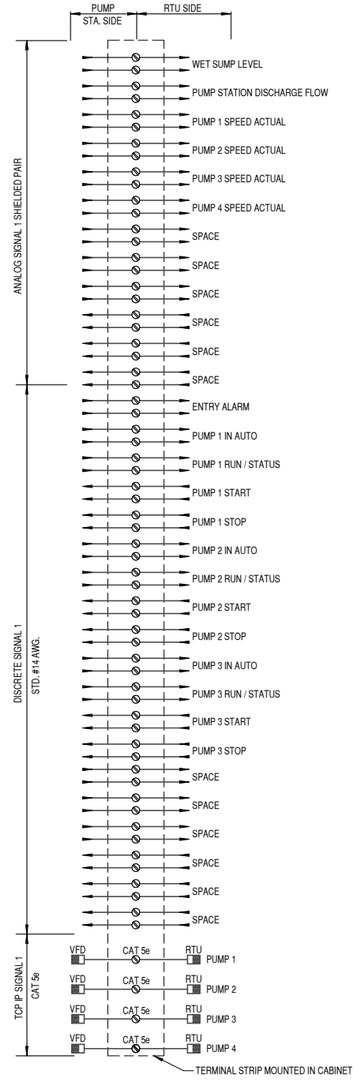
12" = 1'-0"



MARK	NAME PLATE
1	HAND/AUTO SELECTOR SWITCH
2	START
3	STOP
4	RUN
5	RUN TIME METER

2G MOTOR STARTER CONTROLS

12" = 1'-0"



NOTE:

CONTRACTOR TO INSTALL TERMINAL STRIP NAME PLATES AND PUMP STATION SIDE WIRING, PROVIDE 30 PERCENT SPARE TERMINALS.

1K RTU TERMINAL STRIP

12" = 1'-0"

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ELECTRICAL DETAILS

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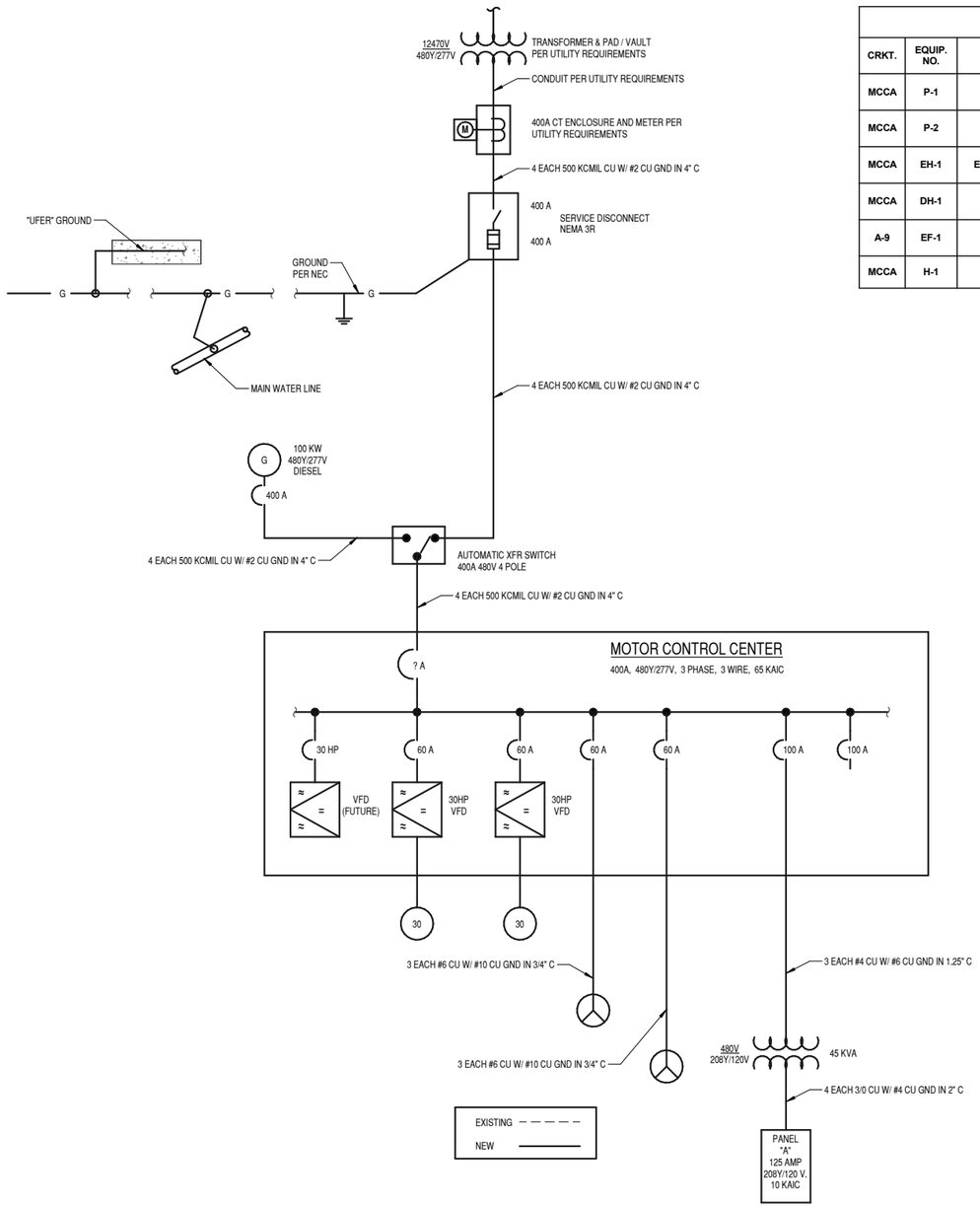
EP502



1A ELECTRICAL ONE-LINE DIAGRAM
NONE

EQUIPMENT SCHEDULE

CRKT.	EQUIP. NO.	DESCRIPTION	VOLTS	PHASE	WATTS HP	BRK	STARTER	CONTROL		PILOT		CONTACTS		CONTROL TRANS.	REMARKS
							SIZE	H.O.A	P.B.	GRN	RED	N.O.	N.C.		
MCCA	P-1	PUMP	480	3	30HP	60	40A VFD	X	X	X	X	2	2	150KVA	VFD REMOTE HOA START/STOP
MCCA	P-2	PUMP	480	3	30HP	60	40A VFD	X	X	X	X	2	2	150KVA	VFD REMOTE HOA START/STOP
MCCA	EH-1	ELECTRIC HEATER	480	3	10KW	20									INTERGERAL DISCONNECT
MCCA	DH-1	DUCT HEATER	408	3	25KW	40									INTERGERAL DISCONNECT
A-9	EF-1	EXHAUST FAN	120	1	0.5HP	20									MOTOR RATED SWITCH
MCCA	H-1	HOIST	408	3	15KW	30									FUSED DISCONNECT

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ELECTRICAL SCHEDULES & DIAGRAM

SCHEDULE FOR:		MCCA		MAIN BREAKER AMPERAGE			400			VOLTAGE:		480	42KAIC
MAINS:	400	AMPS		PHASE:	3	WIRE:	3	NEMA:	1	LOCATION:		PUMP HOUSE	

COMP	EQUIPMENT	MOTOR RATING	BREAKER AMPS	NO. POLES	STARTER SIZE	CONTROL		PILOT LTS.		CONTACTS		CONT. TRANS	REMARKS:
						HOA	P.B.	GRN	RED	NO.	NC.		
1A	METERING SECTION												MULTI FUNCTION DIGITAL METERING PACKAGE W/ FUSING
1B													
1C													
1D	15 KVA TRANSFOMER FEEDER BREAKER	6.84 KVA	60 A	2									60A 2POLE SINGLE PHASE PANEL - 15KVA
1E													
1F	15KVA TRANSFORMER	15 KVA	45 A										FEEDS PANEL A
1G													
1H													
1J													
1K	60A SINGLE PHASE PANEL												60A MAIN BREAKER
1L													
1M													
1N													
2A	PUMP 1 VFD	30 HP											REMOTE HOA START/STOP BELDEN# 29504 #8 CU W/#8 CU GND
2B													
2C													
2D													
2E													
2F													
2G													
2H													
2I													
2J													
2K													
2L													
2M	WELDING RECEPTACLE		60	3									BREAKER #6 CU W/ #12 CU GND
2N													
3A	PUMP 2 VFD	30 HP											REMOTE HOA START/STOP BELDEN# 29504 #8 CU W/#8 CU GND
3B													
3C													
3D													
3E													
3F													
3G													
3H													
3I													
3J													
3K													
3L													
3M	WELDING RECEPTACLE		60	3									BREAKER #6 CU W/ #12 CU GND
3N													

TOTAL CONNECTED HP	191.836	TOTAL DEMAND LOAD KVA	134	70%	DIVERSITY		
TOTAL CONNECTED AMPERAGE	231	TOTAL DEMAND AMPERAGE	162				
MCC LOADING	40%					1 OF 2	
11/5/2024 13:02							

CONTACT INFORMATION

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ENGINEERING & SURVEYING

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SALT LAKE CITY, UT 84123
P: 801.359.5565

CLH ARCHITECTS ENGINEERS

Case, Lowe & Hart, Inc.
2484 Washington Blvd. - Ste. 510
Ogden, Utah 84401-2346
801-399-5821 www.clhae.com

REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

LICENSED PROFESSIONAL ENGINEER
35668
MARC L. GOULD
11/05/2024
STATE OF UTAH

PRINCIPAL :
MANAGER :
REVIEWER : MLG
DRAFTER : JAC

PROJECT

2024-0063

05 NOVEMBER 2024

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

ELECTRICAL PANEL SCHEDULES

41 OF 63

EP701

SCHEDULE FOR:	MCCA		MAIN BREAKER AMPERAGE			400			VOLTAGE:		480	42KAIC
MAINS:	400	AMPS	PHASE:	3	WIRE:	3	NEMA:	1	LOCATION:		PUMP HOUSE	

COMP	EQUIPMENT	MOTOR RATING	BREAKER AMPS	NO. POLES	STARTER SIZE	CONTROL		PILOT LTS.		CONTACTS		CONT. TRANS	REMARKS:
						HOA	P.B.	GRN	RED	NO.	NC.		
4A	FUTURE PUMP 3 VFD	30 HP											REMOTE HOA START/STOP BELDEN# 29504 #8 CU W/#8 CU GND
4B													
4C													
4D													
4E													
4F													
4G													
4H													
4I													
4J													
4K													
4L													
4M	EH-1	10KW	20	3									BREAKER #12 CU w/#12 CU GND
4N													
5A	FUTURE PUMP 4 VFD	30 HP											REMOTE HOA START/STOP BELDEN# 29504 #8 CU W/#8 CU GND
5B													
5C													
5D													
5E													
5F													
5G													
5H													
5I													
5J													
5K													
5L													
5M	DH-1	25KW	40	3									BREAKER #8 CU w/#12 CU GND
5N													

TOTAL CONNECTED HP	191.836	TOTAL DEMAND LOAD KVA	134	70%	DIVERSITY		
TOTAL CONNECTED AMPERAGE	231	TOTAL DEMAND AMPERAGE	162				
MCC LOADING	40%					2 OF 2	
11/5/2024 13:02							

PANEL:	A	MAIN BREAKER	60 AMPS	VOLTAGE:	240 / 120	PHASE:	1	WIRE:	3	NEMA:	1
MAINS:	60 AMPS	MOUNTING:	SURFACE	LOCATION	MCCA	REMARKS:					

LOAD DESCRIPTION	WIRE	P	AMP	CKT	KVA			PHASE			KVA			CKT	AMP	P	WIRE	LOAD DESCRIPTION
					PWR	LTS	C.O.	A	B		C.O.	LTS	PWR					
INDOOR LIGHTING	12	1	20	1		0.09		0.29					0.20	2	20	1	12	SUMP LEVEL SENSOR
OUTDOOR LIGHTING	12	1	20	3		0.11			0.31				0.20	4	20	1	12	PRESURE TRANSMITTER
CONVIENCE OUTLETS	12	1	20	5			0.54	0.74					0.20	6	20	1	12	FLOW TRANSMITTER
CONVIENCE OUTLETS	12	1	20	7			0.36		1.36				1.00	8	20	1	12	CONTROLS CABINET
EXHAUST FAN	12	1	20	9	0.50			0.50						10	20	1	12	SPACE
CONVIENCE OUTLETS	12	1	20	11			0.36		0.36					12	20	1	12	SPACE
SPACE	12	1	20	13				0.00						14	20	1	12	SPACE
SPACE	12	1	20	15					0.00					16	20	1	12	SPACE
SPACE	12	1	20	17				0.18			0.18			18	20	1	12	SPACE
SPACE	12	1	20	19					0.00					20	20	1	12	SPACE
SPACE	12	1	20	21				0.00						22	20	1	12	SPACE
SPACE	12	1	20	23					0.00					24	20	1	12	SPACE
SUB-TOTAL (KVA)					0.50	0.20	1.26	1.71	2.03	0.00	0.18	0.00	1.60					

*PROVIDE GFCI BREAKER	TYPE OF LOAD	CONNECTED	DIVERSITY	DEMAND
** PROVIDE AFIC BREAKER	LIGHTING	0.20	100%	0.20
*** PROVIDE DUAL FUNCTION GFCI/AFCI BREAKER	POWER	2.10	70%	1.50
	C.O.	1.44	NEC 220.44	1.50
PANEL LOADING 23%	TOTAL	3.74	KVA	3.20
11/5/2024 13:02 REFER TO ONE-LINE DIAGRAM FOR AIC RATING	TOTAL	16	AMPS	14

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2024-0063

05 NOVEMBER 2024

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

ELECTRICAL PANEL SCHEDULES

42 OF 63

EP702

JUMP TO FORCE MAIN OVERVIEW

U:\83-NF | 01:38 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\43 CU100.DWG

CONTACT INFORMATION

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

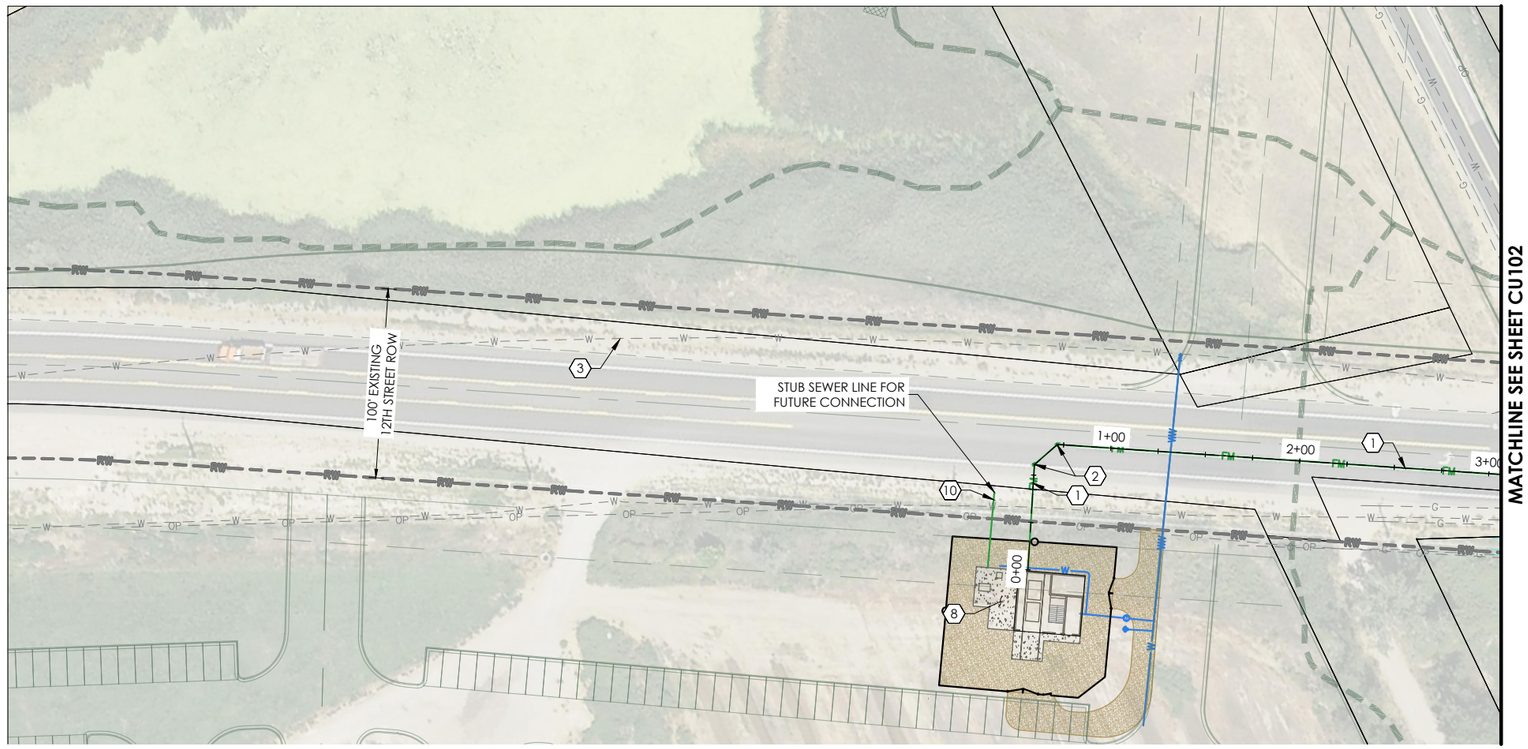
PROMONTORY LIFT STATION

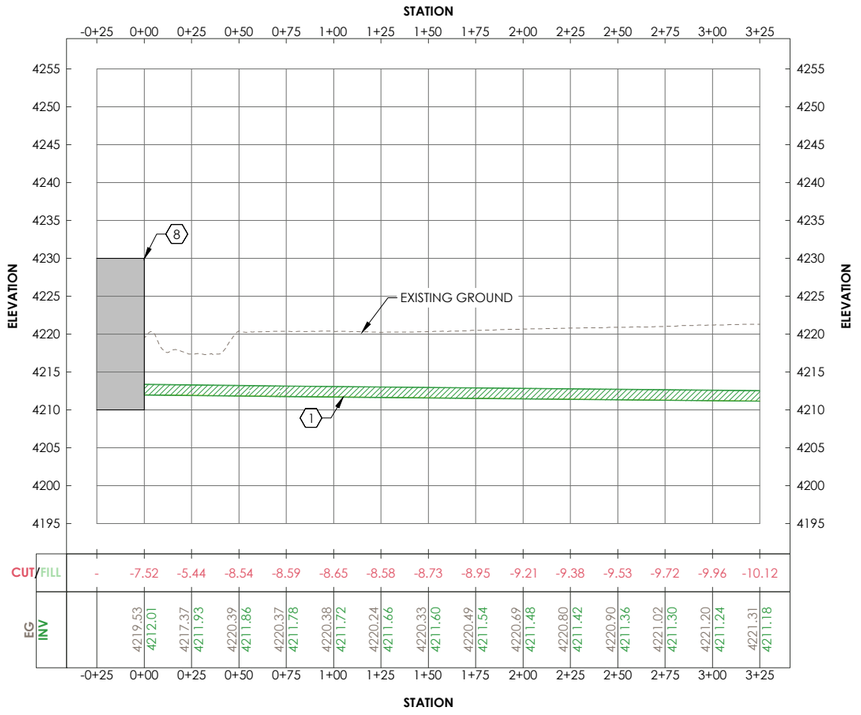
6137 W 900 S OGDEN UT 84404

FORCE MAIN OVERVIEW

43 OF 67

CU100





FT
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KEYED NOTES

NO.	DESCRIPTION	DETAIL
1	16" DR17 (GREEN STRIPE) HDPE PRESSURE SEWER MAIN W/ THRUST BLOCKING & TRACER TAPE 2' ABOVE PIPE	26 - CU502 30 - CU504
2	45° BEND	30 - CU504
3	EXISTING WATERLINE	
4	EXISTING DOMINION GAS LINE, EXACT LOCATION UNKOWN	
5	EXISTING STORM DRAIN	
6	2" AIR-VAC VALVE ASSEMBLY	29 - CU503
7	24" STEEL CASING (7/16" THICK WALL), FILL ANNULAR SPACE WITH NEAT CEMENT	28 - CU503
8	PROMONTORY LIFT STATION	
9	TRANSITION TO GRAVITY FLOW	25 - CU502
10	30" SDR-35 ASTM D 3034 PVC SEWER MAIN	26 - CU502
11	REMOVE AND RELOCATE EXISTING STORM DRAIN	
12	EXISTING BURIED POWER	
13	REPLACE EXISTING MANHOLE, TIE-IN TO EXISTING SEWER LINES	24 - CU501
14	RECONNECT SEWER LATERAL TO NEW SEWER MAIN	31 - CU504
15	RECONNECT SEWER MAIN TO NEW MANHOLE	32 - CU505

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2. PRESSURE SEWER MAIN SHALL BE TESTED ACCORDING TO COUNTY OR CITY ENGINEERING STANDARDS AND WITNESSED BY A CITY ENGINEERING INSPECTOR.
3. THE ENGINEER HAS MADE AN EFFORT TO LOCATE ALL EXISTING UTILITY LINES FROM RECORDS PROVIDED BY OTHERS AND EVIDENCE IN THE FIELD. CONTRACTOR TO BLUESTAKE AND POTHOLE ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
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9. ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD (INCLUDING SUPPLEMENTAL) DRAWINGS AND SPECIFICATIONS.
10. THE CONTRACTOR IS TO OBTAIN AN ENCROACHMENT PERMIT FROM THE APPLICABLE UDOT REGION PERMIT OFFICE PRIOR TO COMMENCING WORK WITHIN UDOT RIGHT-OF-WAY. WORKING HOUR LIMITATIONS WILL BE LISTED IN THE LIMITATIONS SECTION OF THE ENCROACHMENT PERMIT.
11. UDOT RESERVES THE RIGHT, AT ITS OPTION, TO INSTALL A RAISED MEDIAN ISLAND OR RESTRICT THE ACCESS TO A RIGHT-IN OR RIGHT-OUT AT ANY TIME.
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CONTACT INFORMATION

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JOSHUA
PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

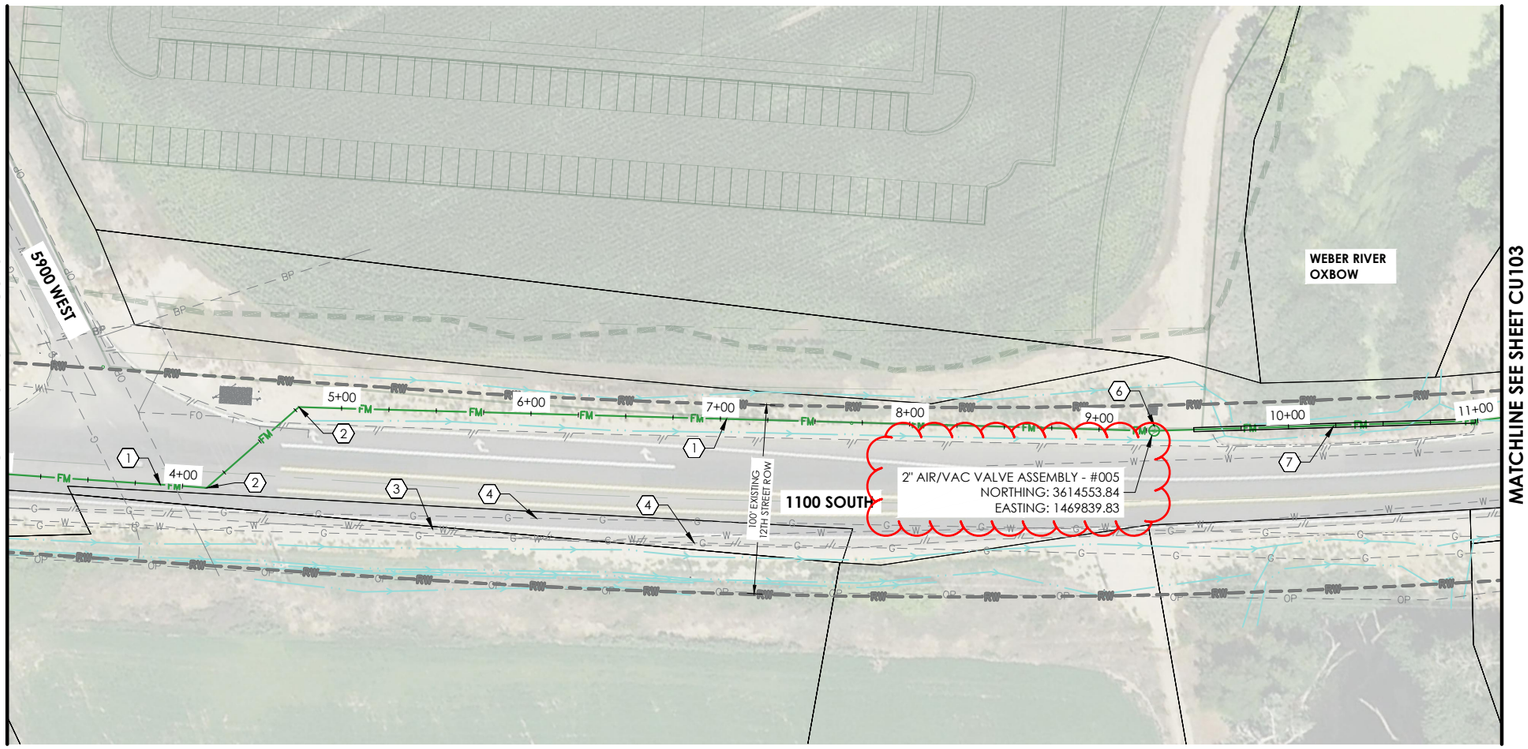
PROMONTORY LIFT STATION

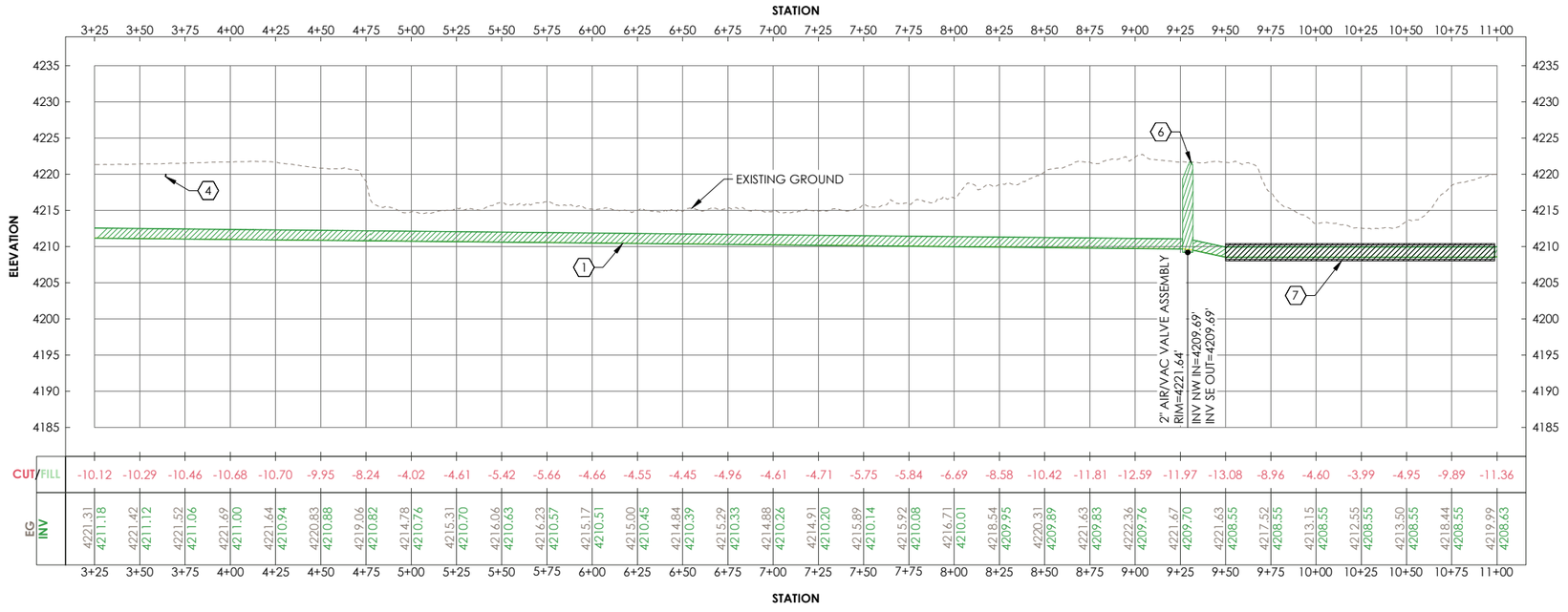
6137 W 900 S OGDEN UT 84404

FORCE MAIN PLAN & PROFILE

44 OF 67

CU101





FT
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REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

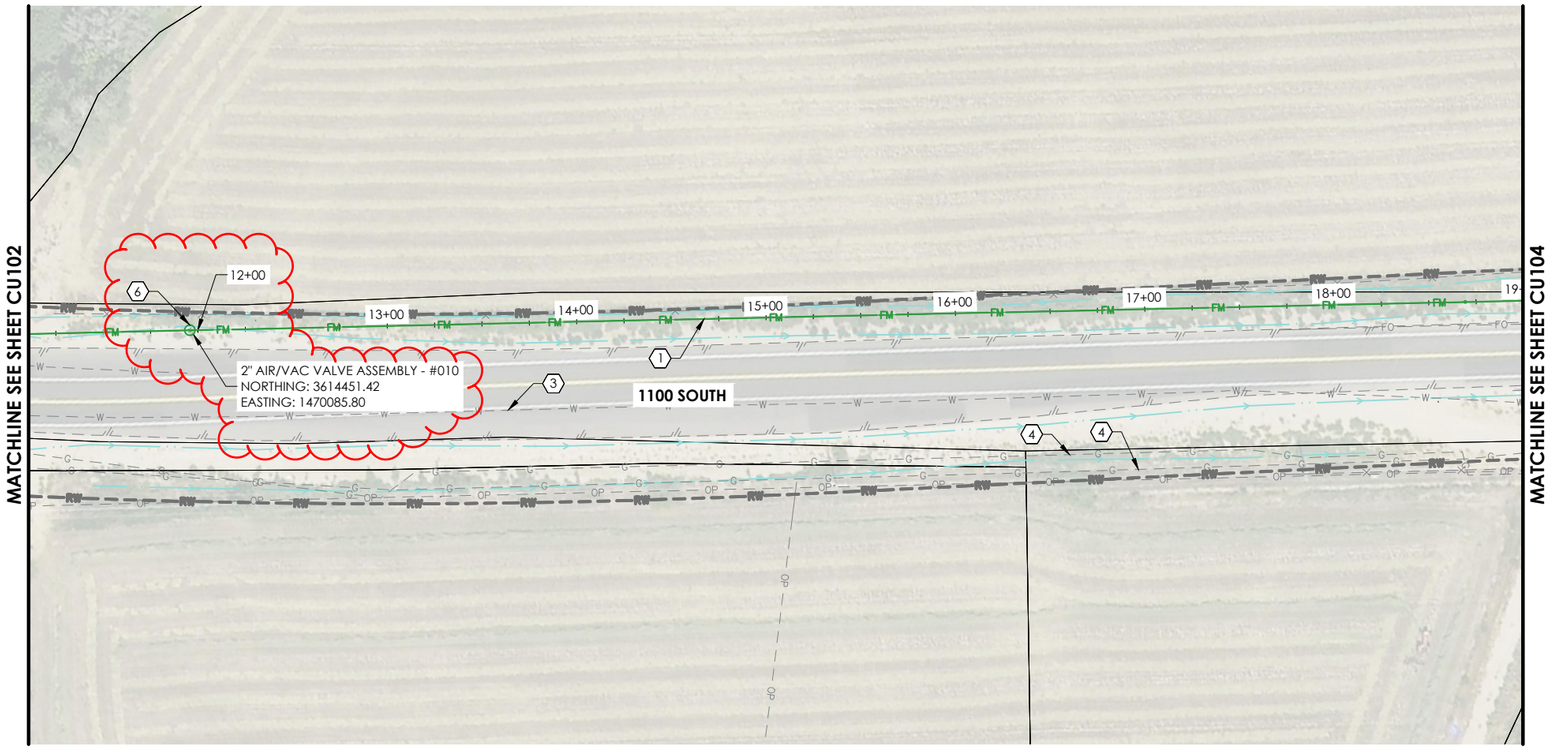
FORCE MAIN PLAN & PROFILE

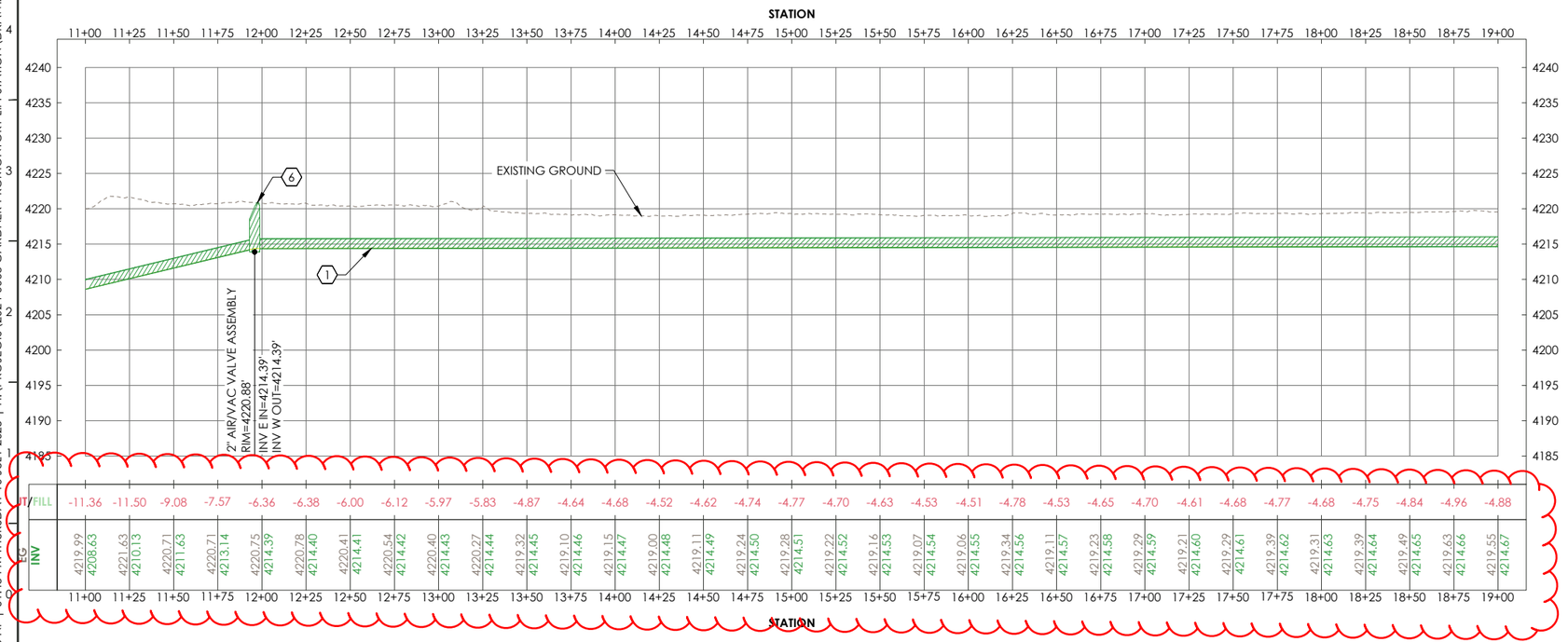
45 OF 67

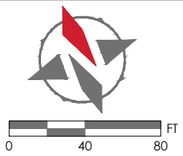
CU102

JUMP TO FORCE MAIN OVERVIEW

U783-NF | 01:41 PM THURSDAY 10 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\45 CU102.DWG







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ENGINEERING & SURVEYING

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REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

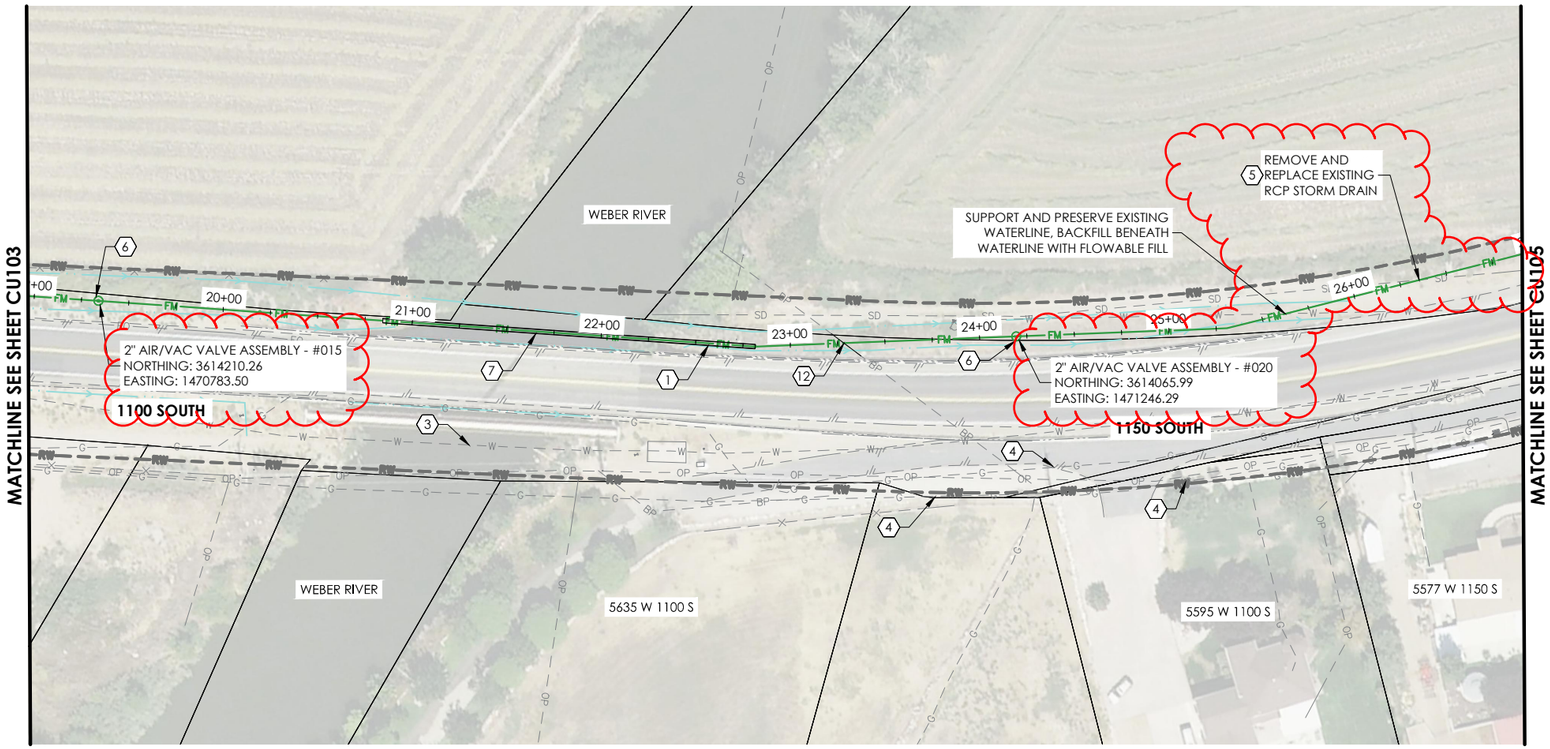
6137 W 900 S OGDEN UT 84404

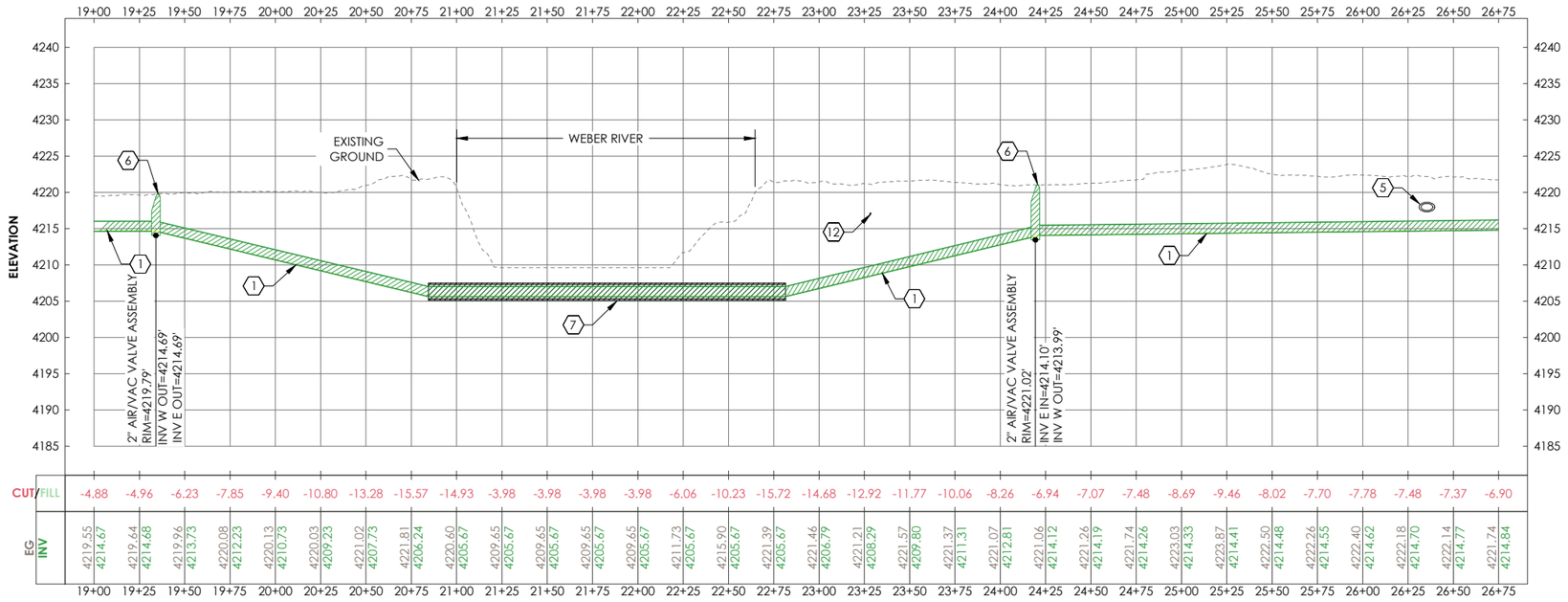
FORCE MAIN PLAN & PROFILE

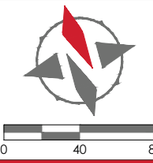
46 OF 67

CU103

JUMP TO FORCE MAIN OVERVIEW







KEYED NOTES

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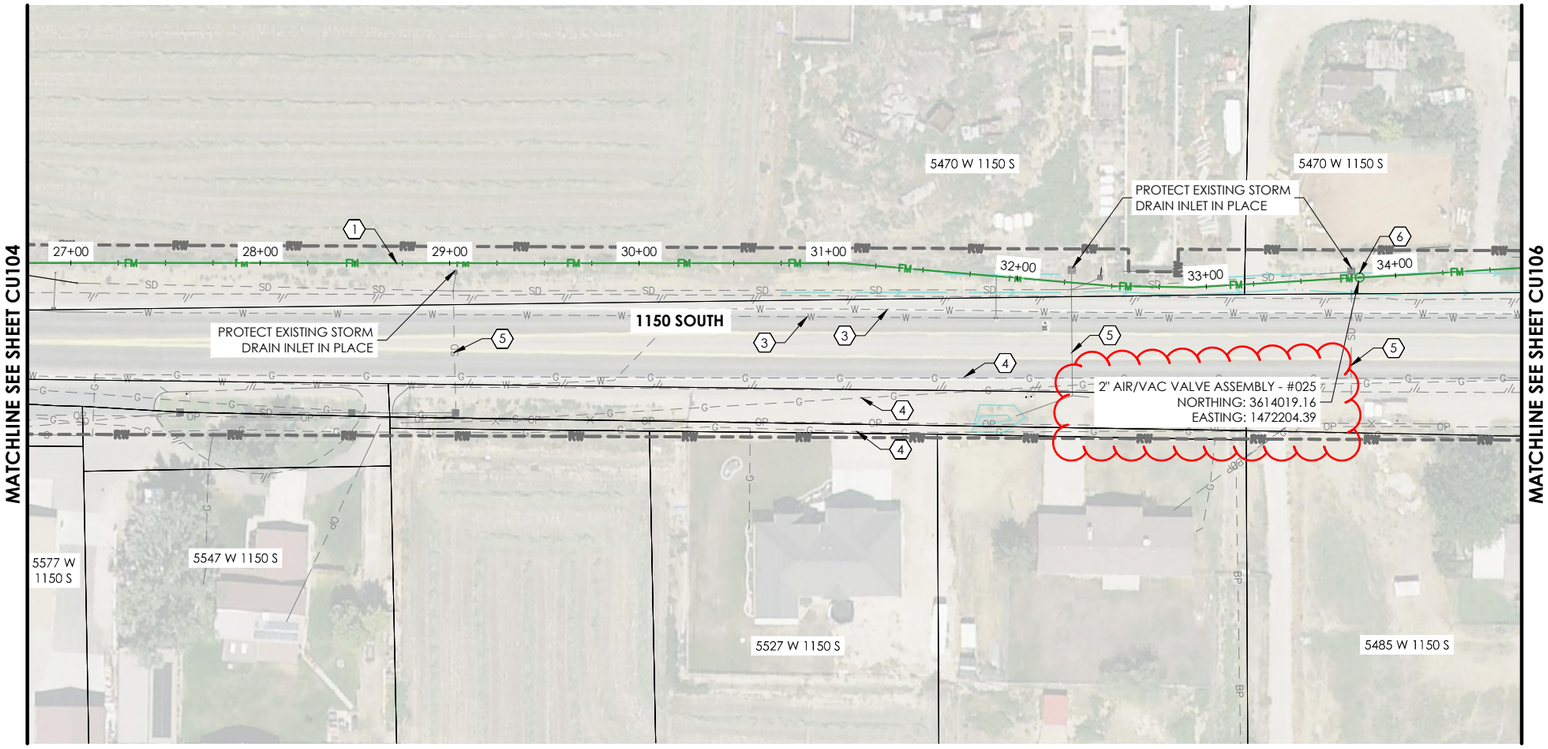

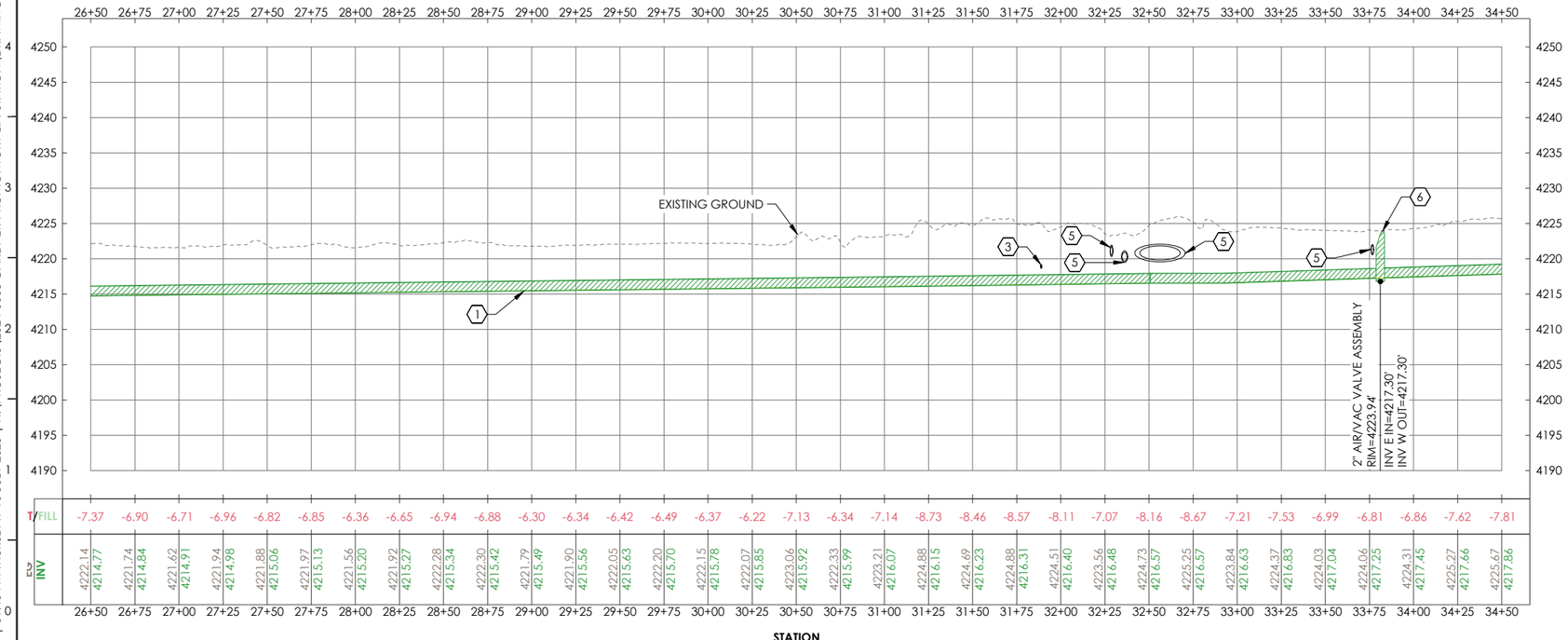

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-6.90	4221.74 / 4214.84
-6.71	4221.62 / 4214.91
-6.96	4221.94 / 4214.98
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-6.85	4221.97 / 4215.13
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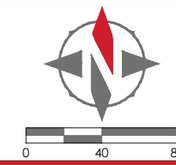

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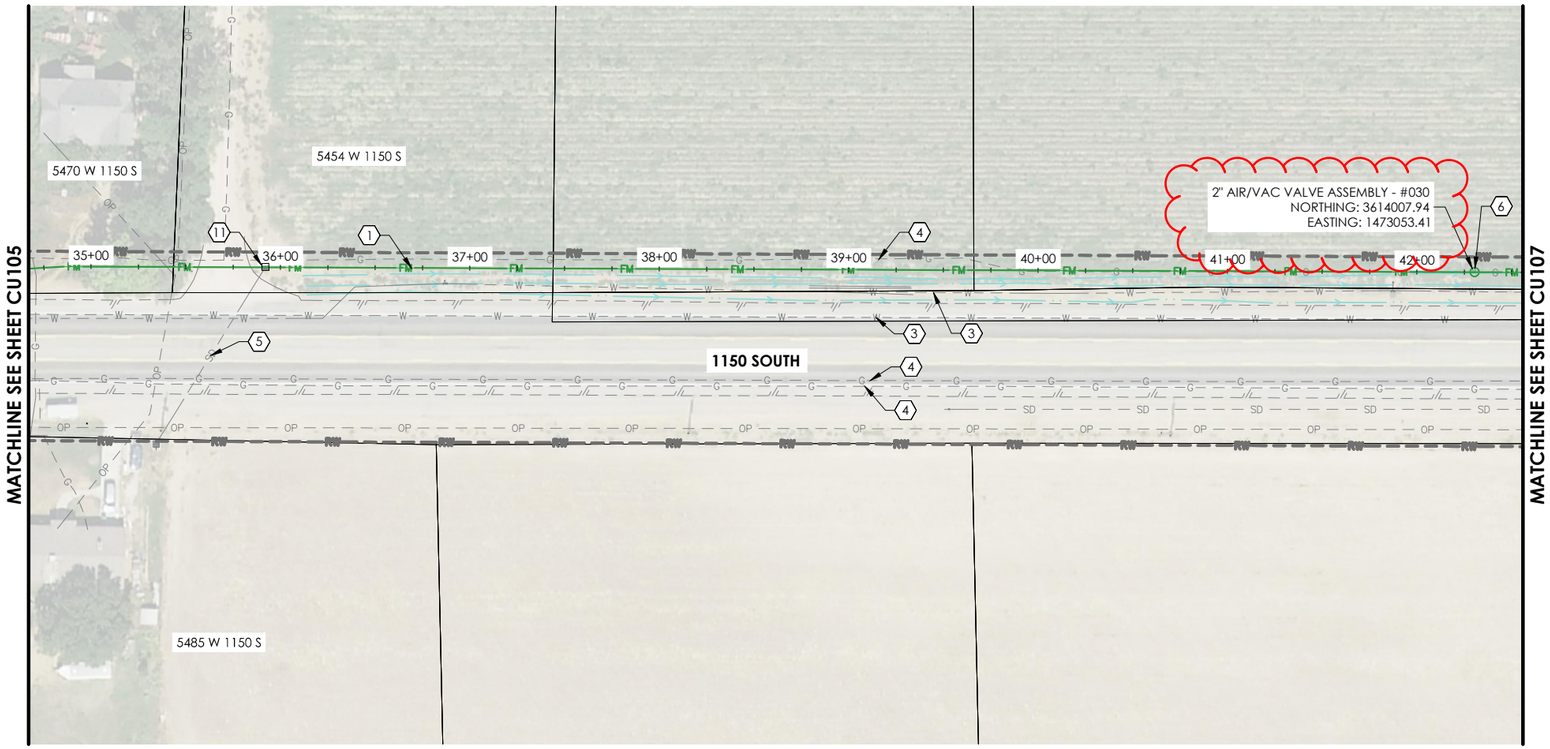

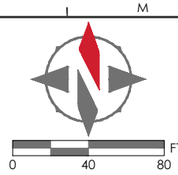

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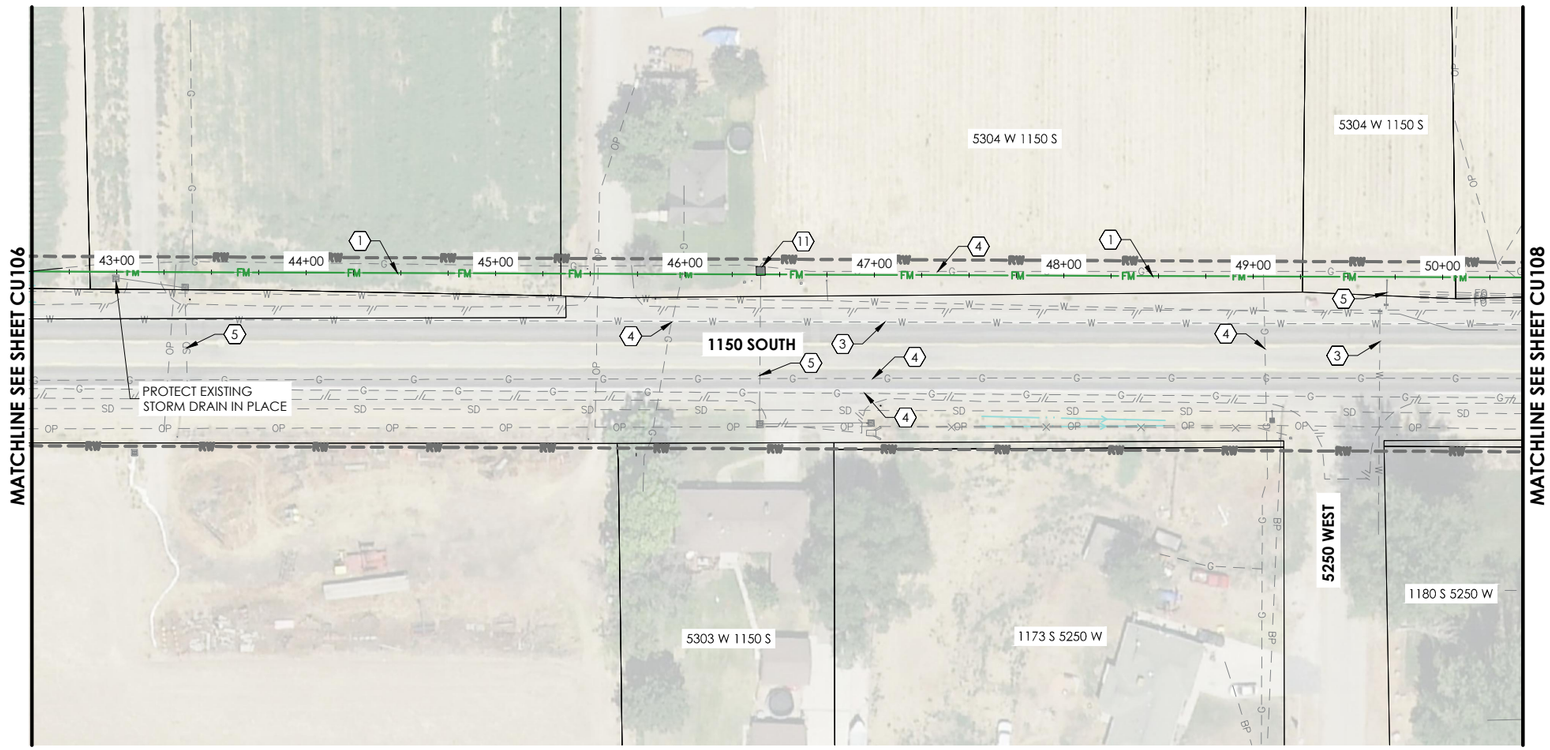

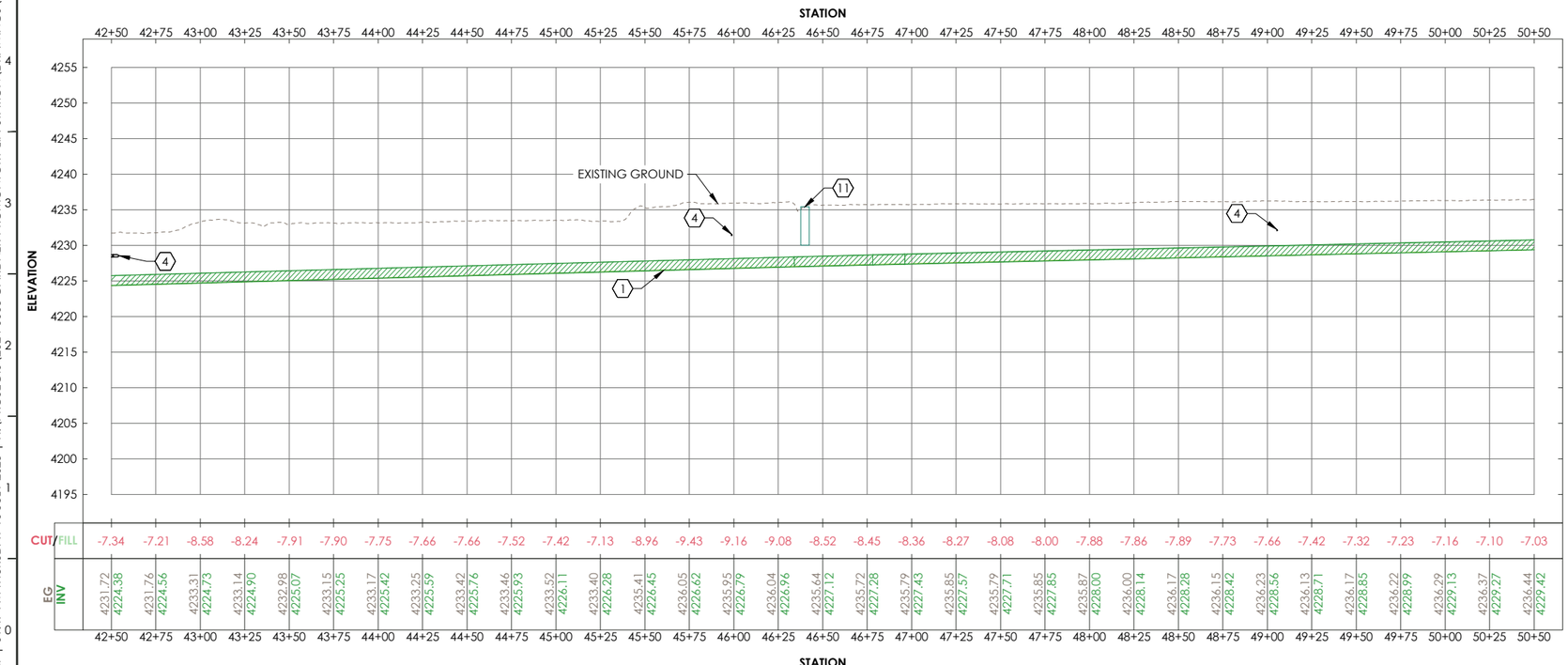

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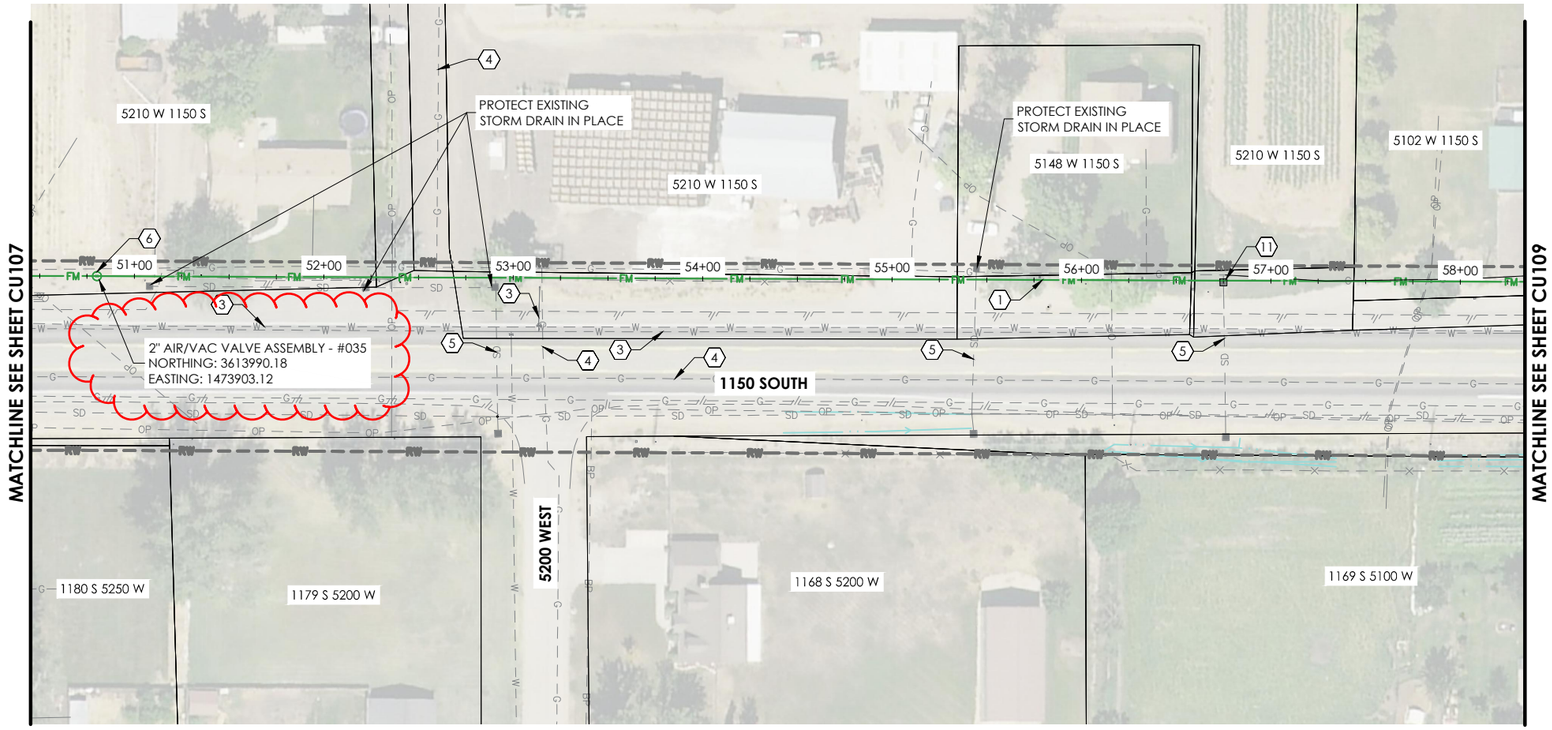
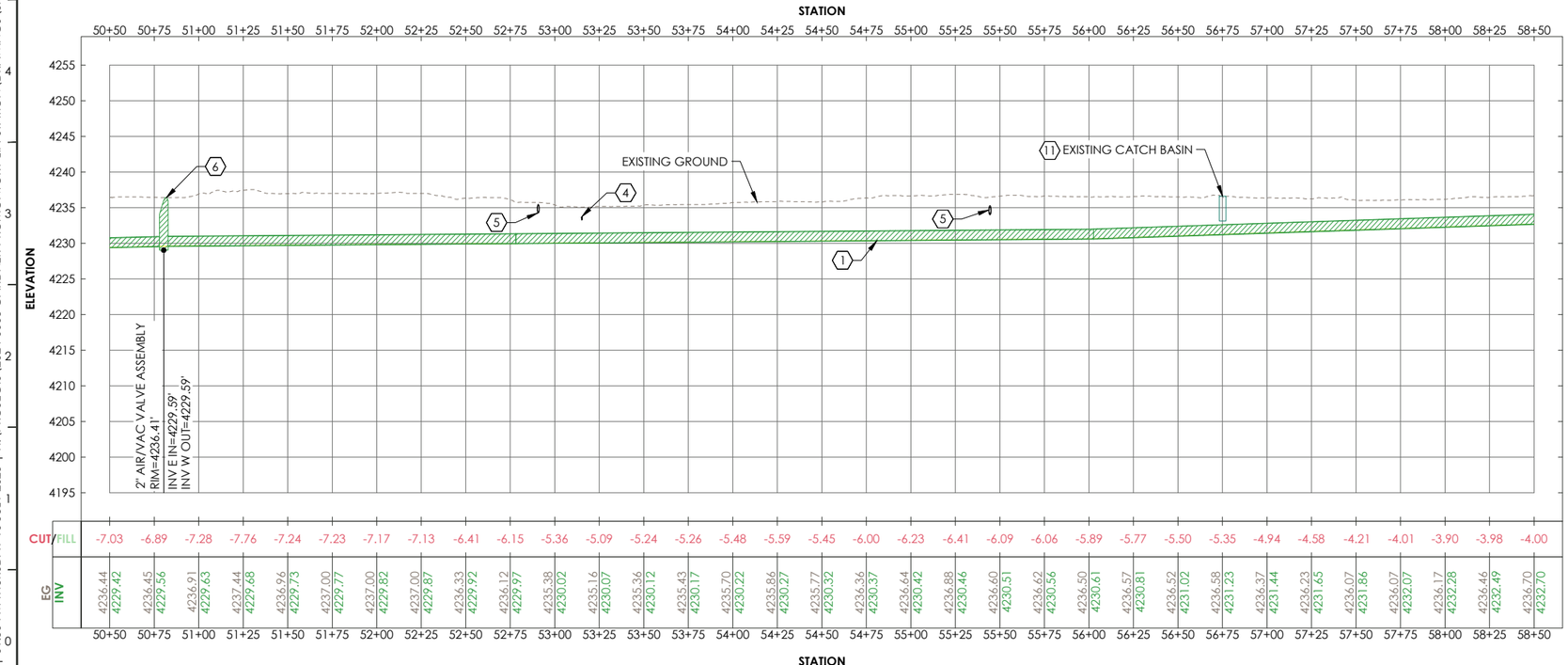
CU107





50+50	50+75	51+00	51+25	51+50	51+75	52+00	52+25	52+50	52+75	53+00	53+25	53+50	53+75	54+00	54+25	54+50	54+75	55+00	55+25	55+50	55+75	56+00	56+25	56+50	56+75	57+00	57+25	57+50	57+75	58+00	58+25	58+50
CUT/FILL	-7.03	-6.89	-7.28	-7.76	-7.24	-7.23	-7.17	-7.13	-6.41	-6.15	-5.36	-5.09	-5.24	-5.26	-5.48	-5.59	-5.45	-6.00	-6.23	-6.41	-6.09	-6.06	-5.89	-5.77	-5.50	-5.35	-4.94	-4.58	-4.21	-4.01	-3.90	-3.98	-4.00
EG	4236.44	4236.45	4236.91	4237.44	4236.96	4237.00	4237.00	4237.00	4236.33	4236.12	4235.38	4235.16	4235.36	4235.43	4235.70	4235.86	4235.77	4236.36	4236.64	4236.88	4236.60	4236.62	4236.50	4236.57	4236.52	4236.58	4236.37	4236.23	4236.07	4236.07	4236.17	4236.46	4236.70
INV	4229.42	4229.36	4229.63	4229.68	4229.73	4229.77	4229.82	4229.87	4229.92	4229.97	4230.02	4230.07	4230.12	4230.17	4230.22	4230.27	4230.32	4230.37	4230.42	4230.46	4230.51	4230.56	4230.61	4230.81	4231.02	4231.23	4231.44	4231.65	4231.86	4232.07	4232.28	4232.49	4232.70

KEYED NOTES

NO.	DESCRIPTION	DETAIL
1	16" DR17 (GREEN STRIPE) HDPE PRESSURE SEWER MAIN W/ THRUST BLOCKING & TRACER TAPE 2' ABOVE PIPE	26 - CU502 30 - CU504
2	45° BEND	30 - CU504
3	EXISTING WATERLINE	
4	EXISTING DOMINION GAS LINE, EXACT LOCATION UNKOWN	
5	EXISTING STORM DRAIN	
6	2" AIR-VAC VALVE ASSEMBLY	29 - CU503
7	24" STEEL CASING (7/16" THICK WALL), FILL ANNULAR SPACE WITH NEAT CEMENT	28 - CU503
8	PROMONTORY LIFT STATION	
9	TRANSITION TO GRAVITY FLOW	25 - CU502
10	30" SDR-35 ASTM D 3034 PVC SEWER MAIN	26 - CU502
11	REMOVE AND RELOCATE EXISTING STORM DRAIN	
12	EXISTING BURIED POWER	
13	REPLACE EXISTING MANHOLE, TIE-IN TO EXISTING SEWER LINES	24 - CU501
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CONTACT INFORMATION

Answers to Infrastructure®
ENGINEERING & SURVEYING

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SALT LAKE CITY, UT 84123
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Gardner

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SALT LAKE CITY, UTAH 84111
P: 801.456.4140

REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

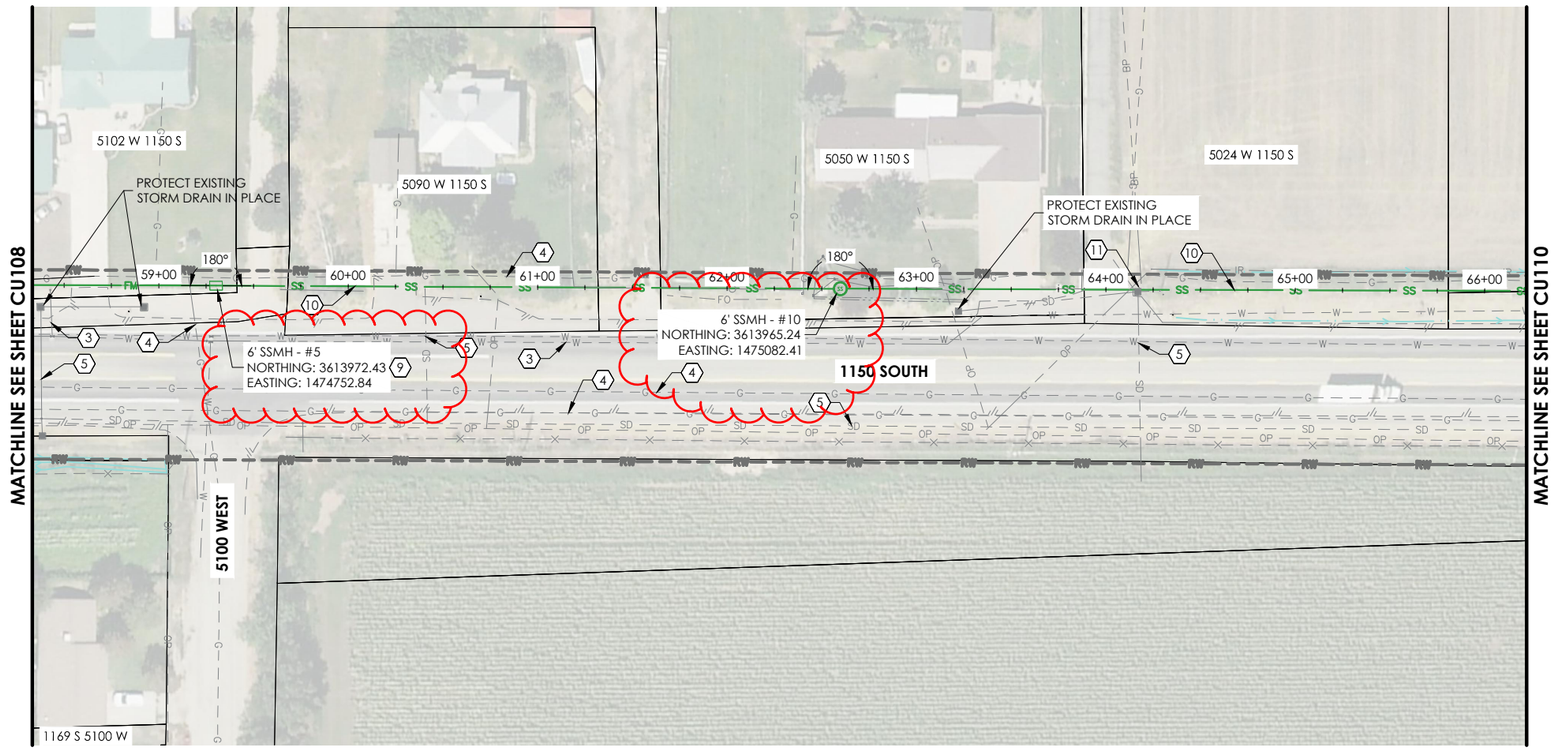
6137 W 900 S OGDEN UT 84404

FORCE MAIN PLAN & PROFILE

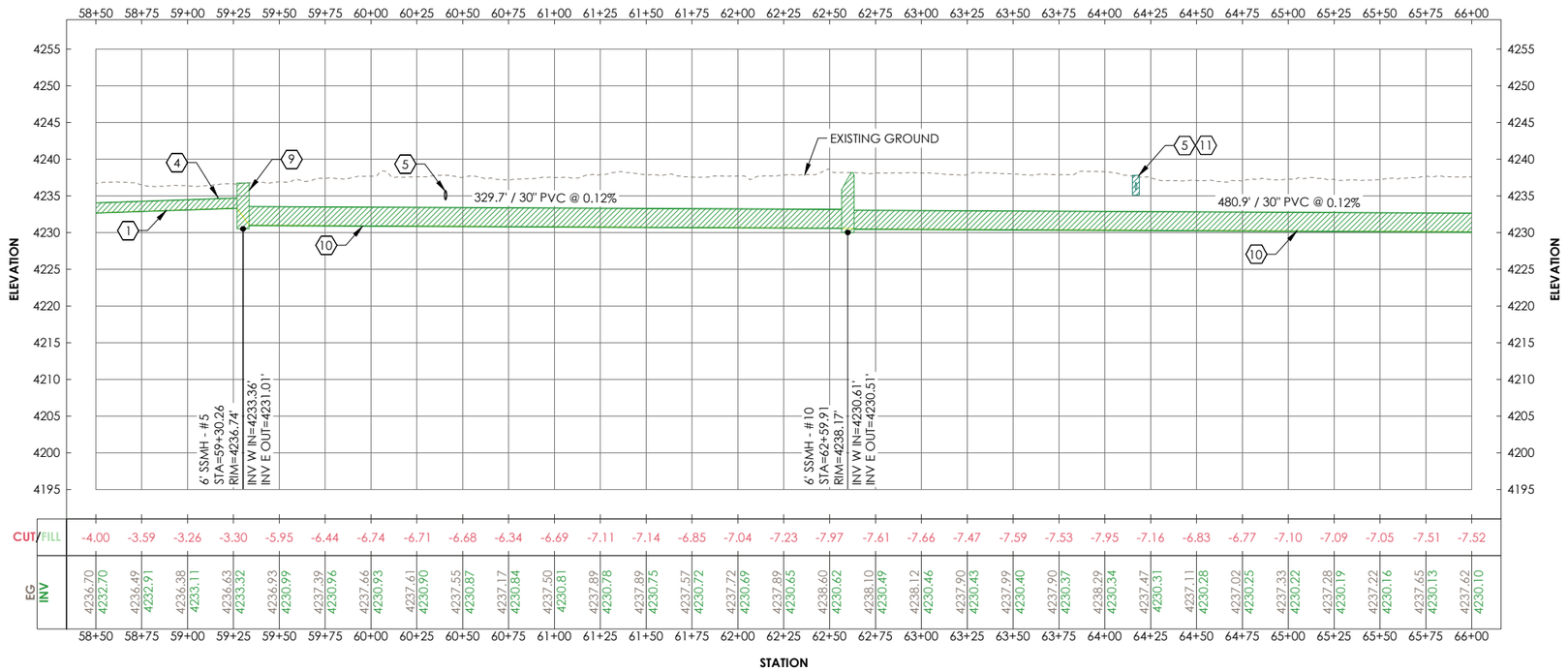
51 OF 67

CU108

JUMP TO FORCE MAIN OVERVIEW

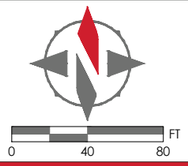


STATION



STATION	CUT/FILL	EG	INV
58+50	-4.00	4236.70	4232.70
58+75	-3.59	4236.49	4232.91
59+00	-3.26	4236.38	4233.11
59+25	-3.30	4236.63	4233.32
59+50	-5.95	4236.93	4230.99
59+75	-6.44	4237.39	4230.96
60+00	-6.74	4237.66	4230.93
60+25	-6.71	4237.61	4230.90
60+50	-6.68	4237.55	4230.87
60+75	-6.34	4237.17	4230.84
61+00	-6.69	4237.50	4230.81
61+25	-7.11	4237.89	4230.78
61+50	-7.14	4237.89	4230.75
61+75	-6.85	4237.57	4230.72
62+00	-7.04	4237.72	4230.69
62+25	-7.23	4237.89	4230.65
62+50	-7.97	4238.60	4230.62
62+75	-7.61	4238.10	4230.49
63+00	-7.66	4238.12	4230.46
63+25	-7.47	4237.90	4230.43
63+50	-7.59	4237.99	4230.40
63+75	-7.53	4237.90	4230.37
64+00	-7.95	4238.29	4230.34
64+25	-7.16	4237.47	4230.31
64+50	-6.83	4237.11	4230.28
64+75	-6.77	4237.02	4230.25
65+00	-7.10	4237.33	4230.22
65+25	-7.09	4237.28	4230.19
65+50	-7.05	4237.22	4230.16
65+75	-7.51	4237.65	4230.13
66+00	-7.52	4237.62	4230.10

STATION



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JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
10 JULY 2025

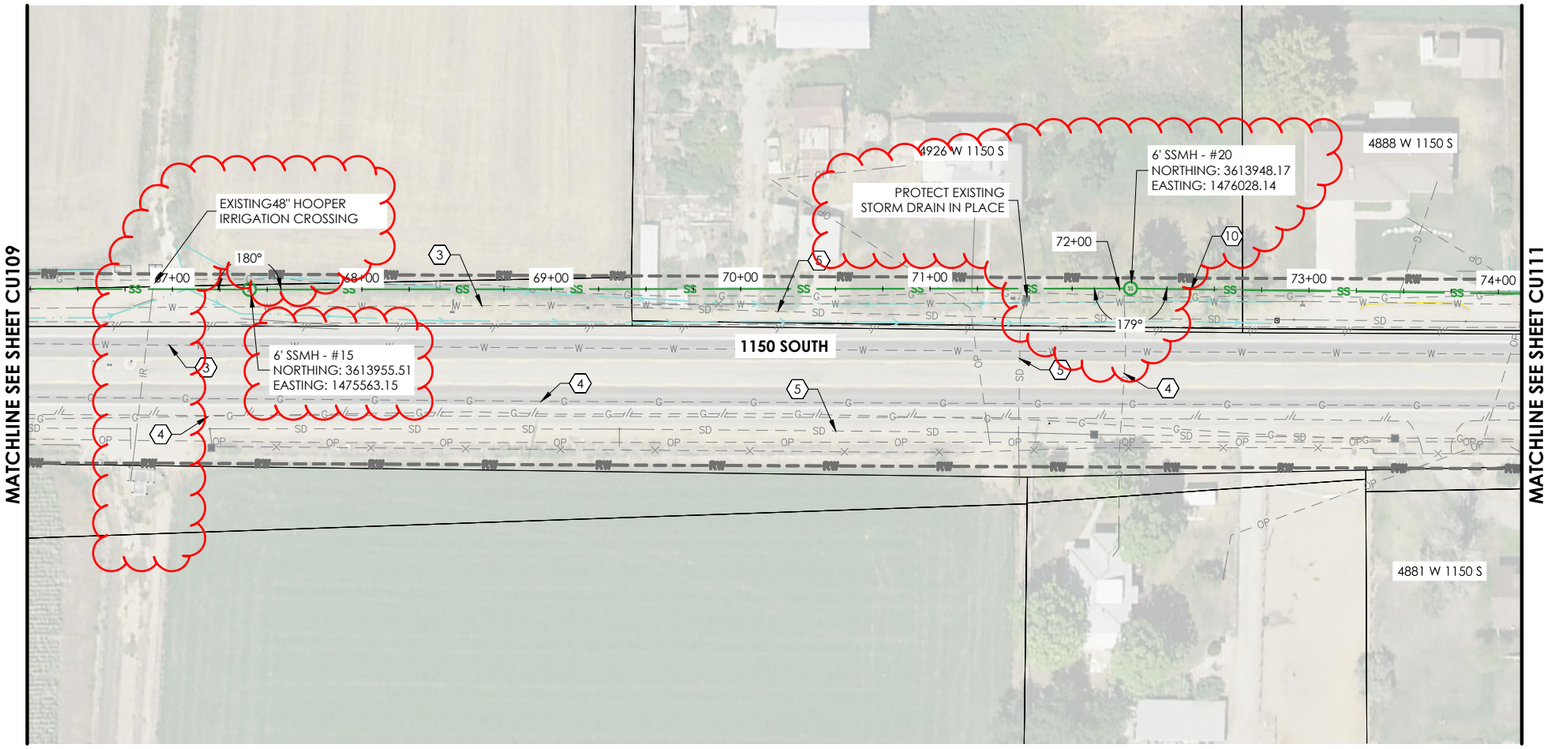
PROMONTORY LIFT STATION

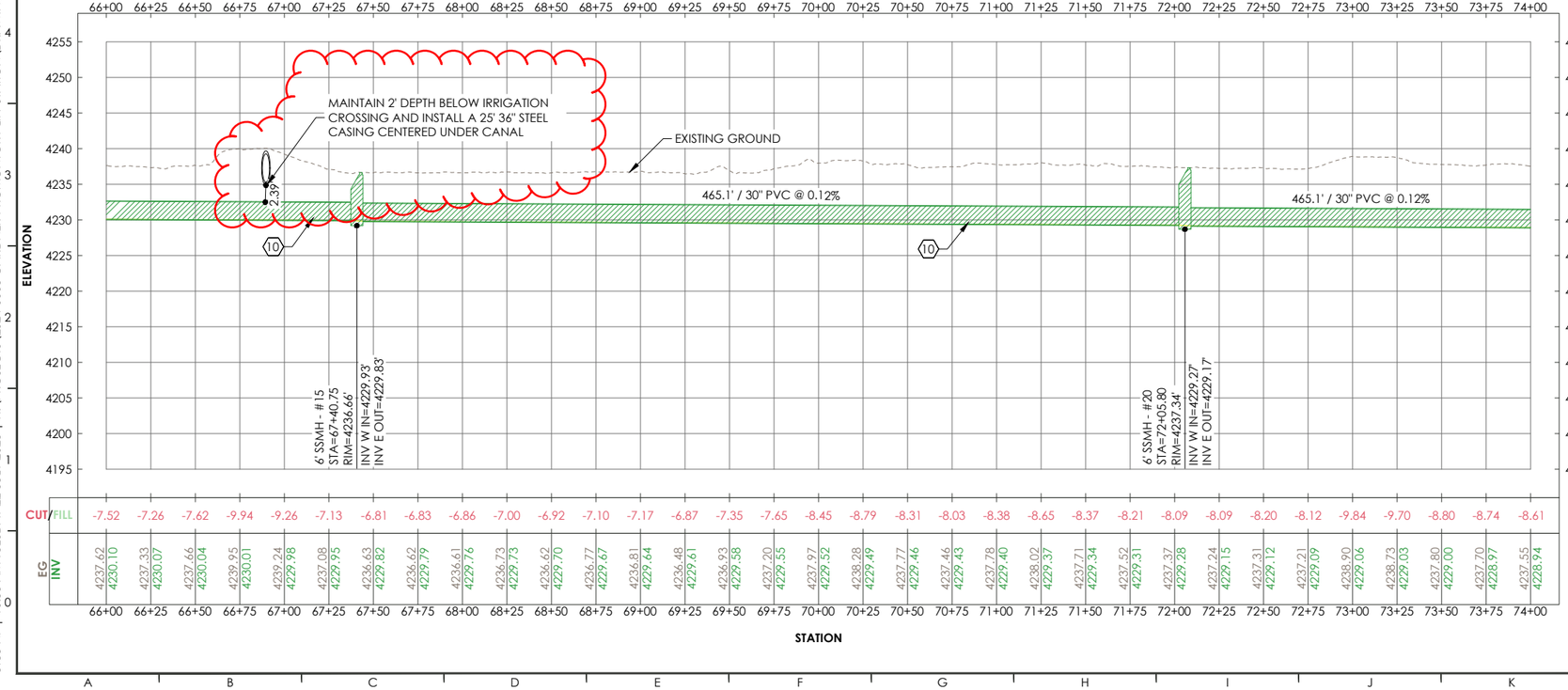
6137 W 900 S OGDEN UT 84404

FORCE MAIN TRANSITION TO GRAVITY

52 OF 67

CU109





66+00	66+25	66+50	66+75	67+00	67+25	67+50	67+75	68+00	68+25	68+50	68+75	69+00	69+25	69+50	69+75	70+00	70+25	70+50	70+75	71+00	71+25	71+50	71+75	72+00	72+25	72+50	72+75	73+00	73+25	73+50	73+75	74+00
CUT/FILL	-7.52	-7.26	-7.62	-9.94	-9.26	-7.13	-6.81	-6.83	-6.86	-7.00	-6.92	-7.10	-7.17	-6.87	-7.35	-7.65	-8.45	-8.79	-8.31	-8.03	-8.38	-8.65	-8.37	-8.21	-8.09	-8.09	-8.20	-8.12	-9.84	-9.70	-8.80	-8.74	-8.61
EG	4237.62	4237.33	4237.46	4239.95	4239.24	4237.08	4236.63	4236.62	4236.61	4236.73	4236.62	4236.77	4236.81	4236.48	4236.93	4237.20	4237.97	4238.28	4237.77	4237.46	4237.78	4238.02	4237.71	4237.52	4237.37	4237.24	4237.31	4237.21	4238.90	4238.73	4237.80	4237.70	4237.55
INV	4230.10	4230.07	4230.04	4230.01	4229.98	4229.95	4229.82	4229.79	4229.76	4229.73	4229.70	4229.67	4229.64	4229.61	4229.58	4229.55	4229.52	4229.49	4229.46	4229.43	4229.40	4229.37	4229.34	4229.31	4229.28	4229.15	4229.12	4229.09	4229.06	4229.03	4229.00	4228.97	4228.94

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0 40 80 FT

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11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
22 JULY 2025

PROMONTORY LIFT STATION

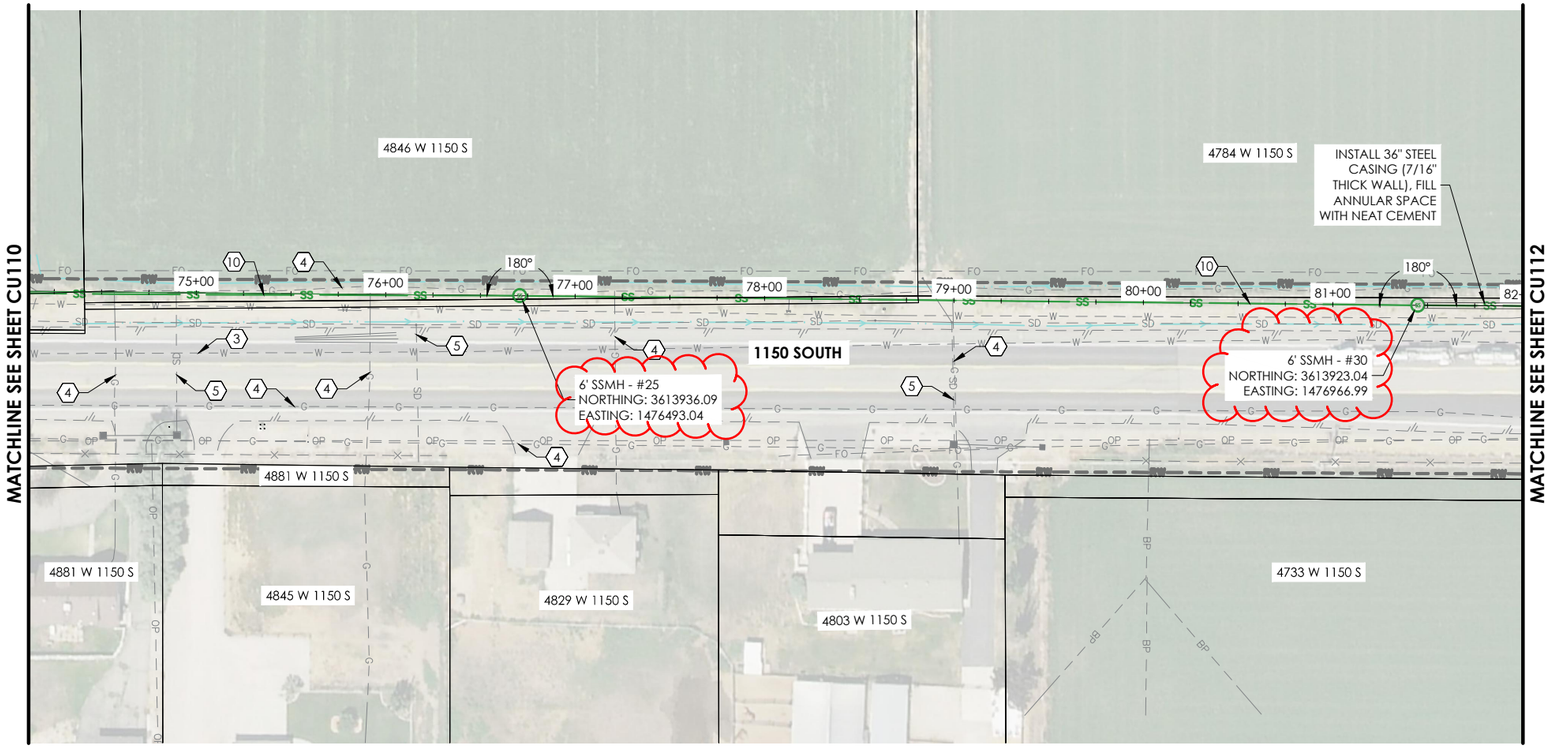
6137 W 900 S OGDEN UT 84404

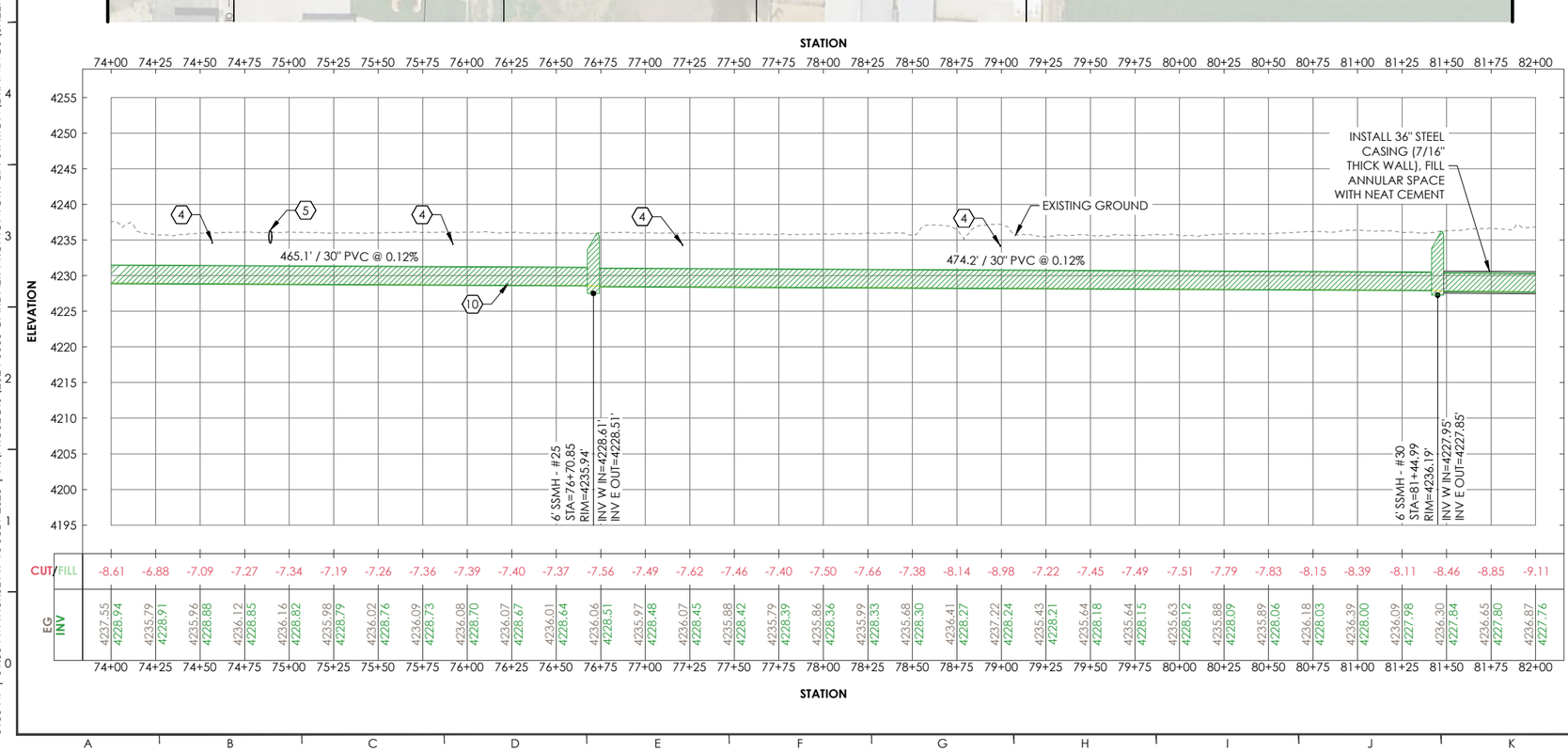
SEWERLINE PLAN & PROFILE

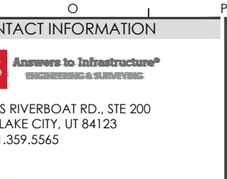
53 OF 67

CU110

UT83-NF | 10:53 AM TUESDAY 22 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\53 CU110.DWG







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REVISIONS

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DESIGN

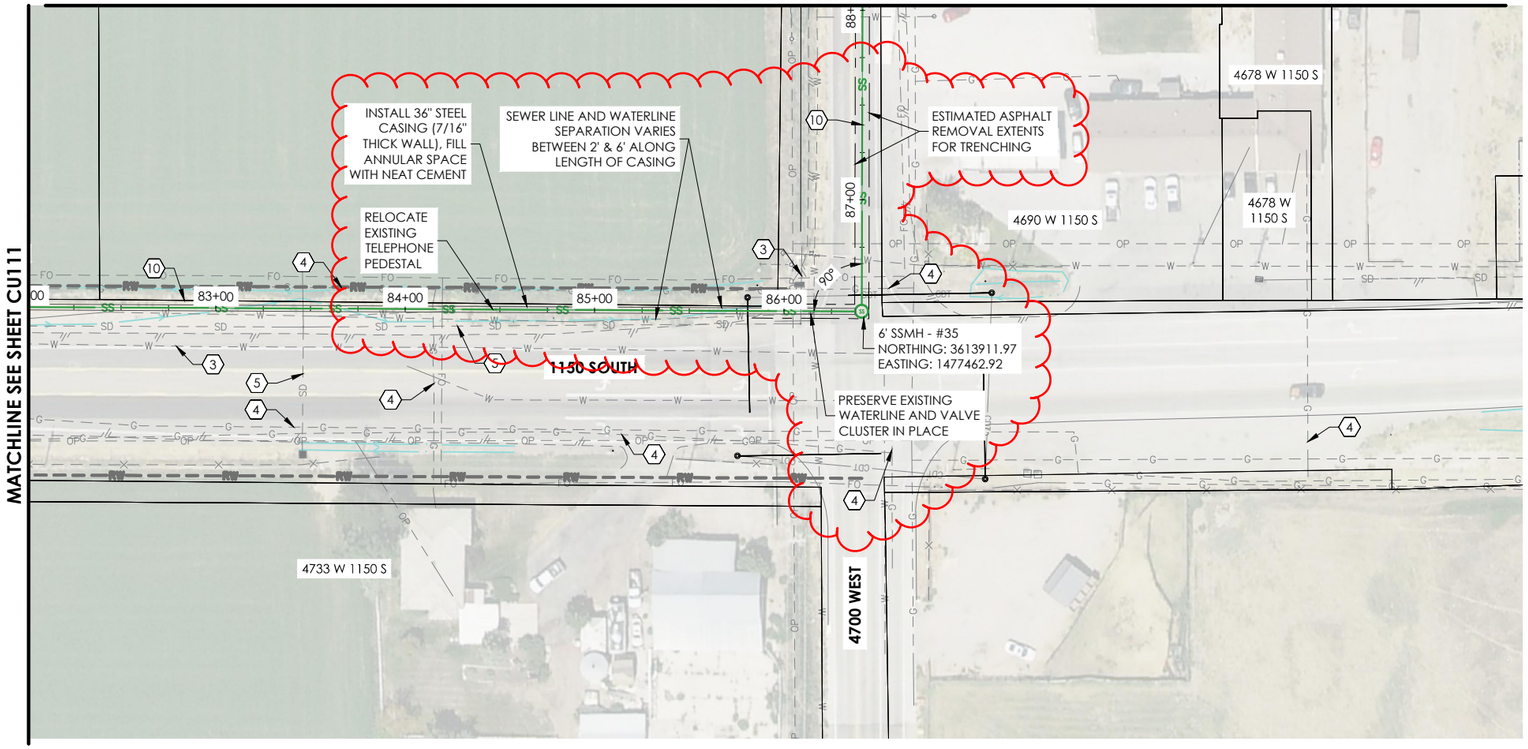
PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

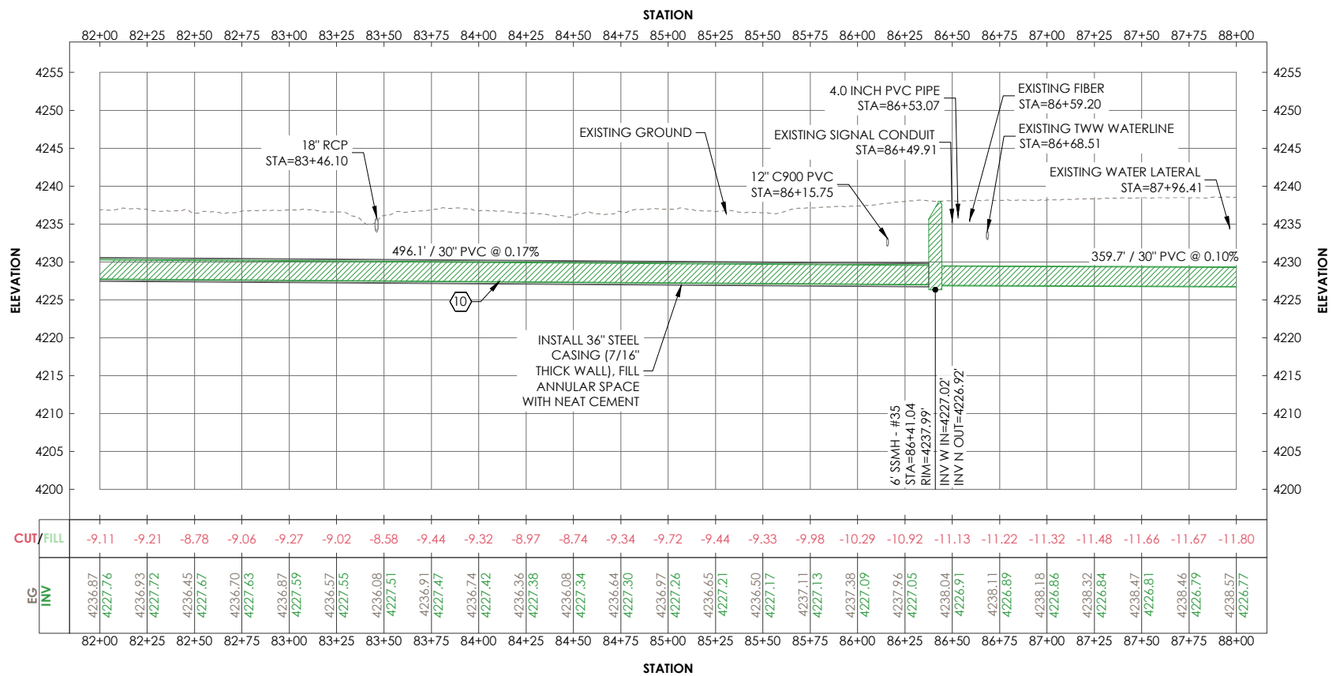
PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404





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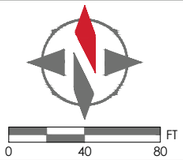
CUT/FILL	-9.11	-9.21	-8.78	-9.06	-9.27	-9.02	-8.58	-9.44	-9.32	-8.97	-8.74	-9.34	-9.72	-9.44	-9.33	-9.98	-10.29	-10.92	-11.13	-11.22	-11.32	-11.48	-11.66	-11.67	-11.80
EG	4236.87	4236.93	4236.45	4236.70	4236.87	4236.57	4236.08	4236.91	4236.74	4236.36	4236.08	4236.64	4236.97	4236.65	4236.50	4237.11	4237.38	4237.96	4238.04	4238.11	4238.18	4238.32	4238.47	4238.46	4238.57
INV	4227.76	4227.72	4227.67	4227.63	4227.59	4227.55	4227.51	4227.47	4227.42	4227.38	4227.34	4227.30	4227.26	4227.21	4227.17	4227.13	4227.09	4227.05	4226.91	4226.89	4226.86	4226.84	4226.81	4226.79	4226.77



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REGISTERED PROFESSIONAL ENGINEER
JOSHUA A. PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
22 JULY 2025

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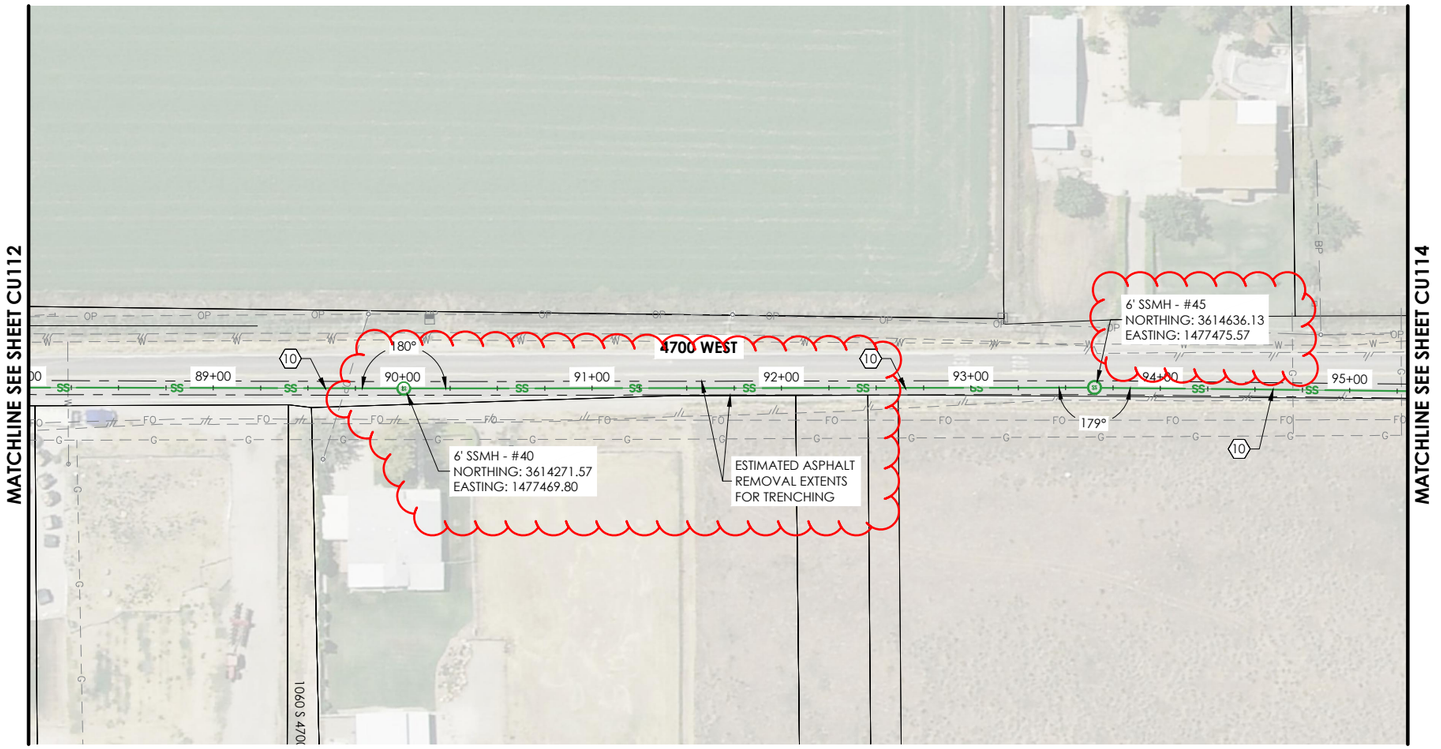
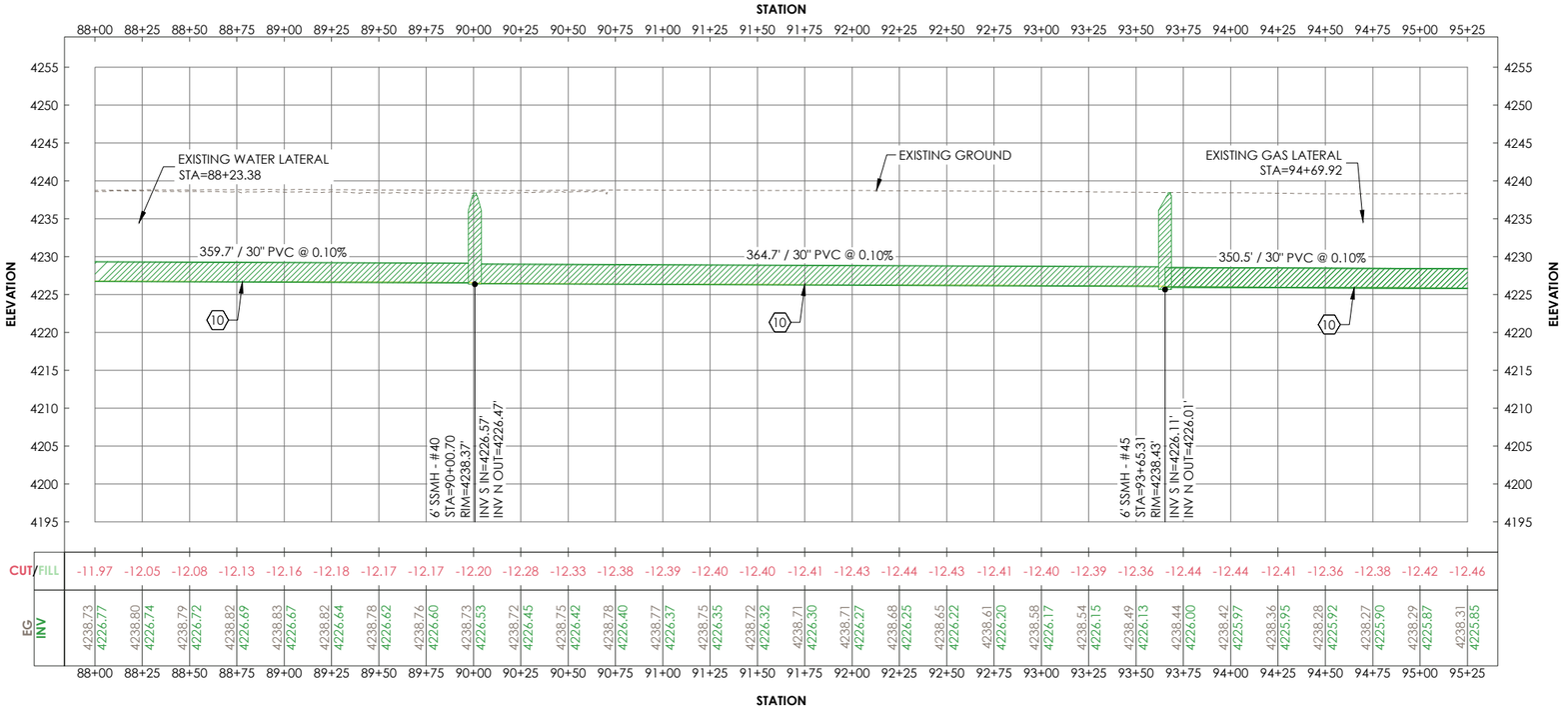
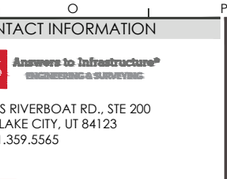
6137 W 900 S OGDEN UT 84404







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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
17 JULY 2025

PROMONTORY LIFT STATION

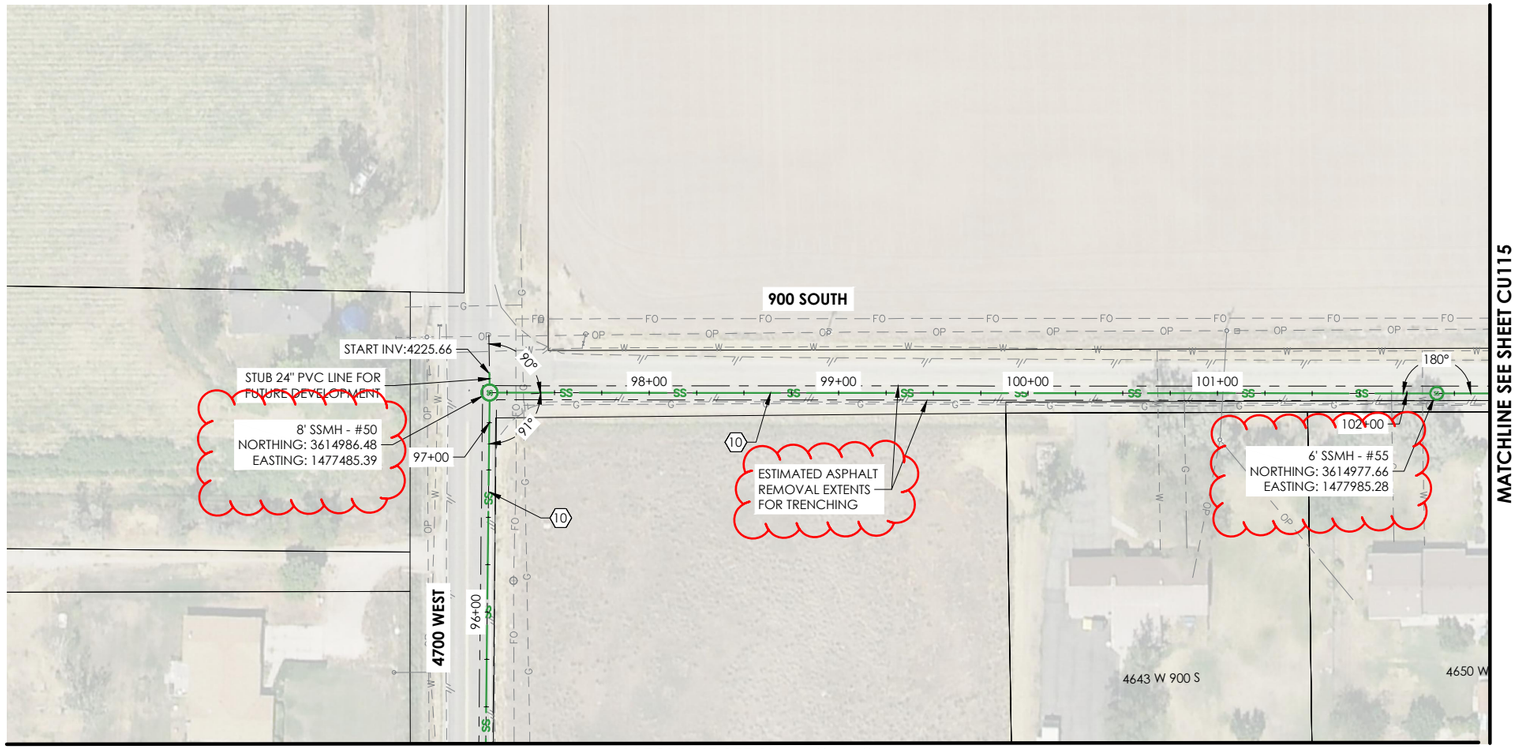
6137 W 900 S OGDEN UT 84404

SEWERLINE PLAN & PROFILE

56 OF 67

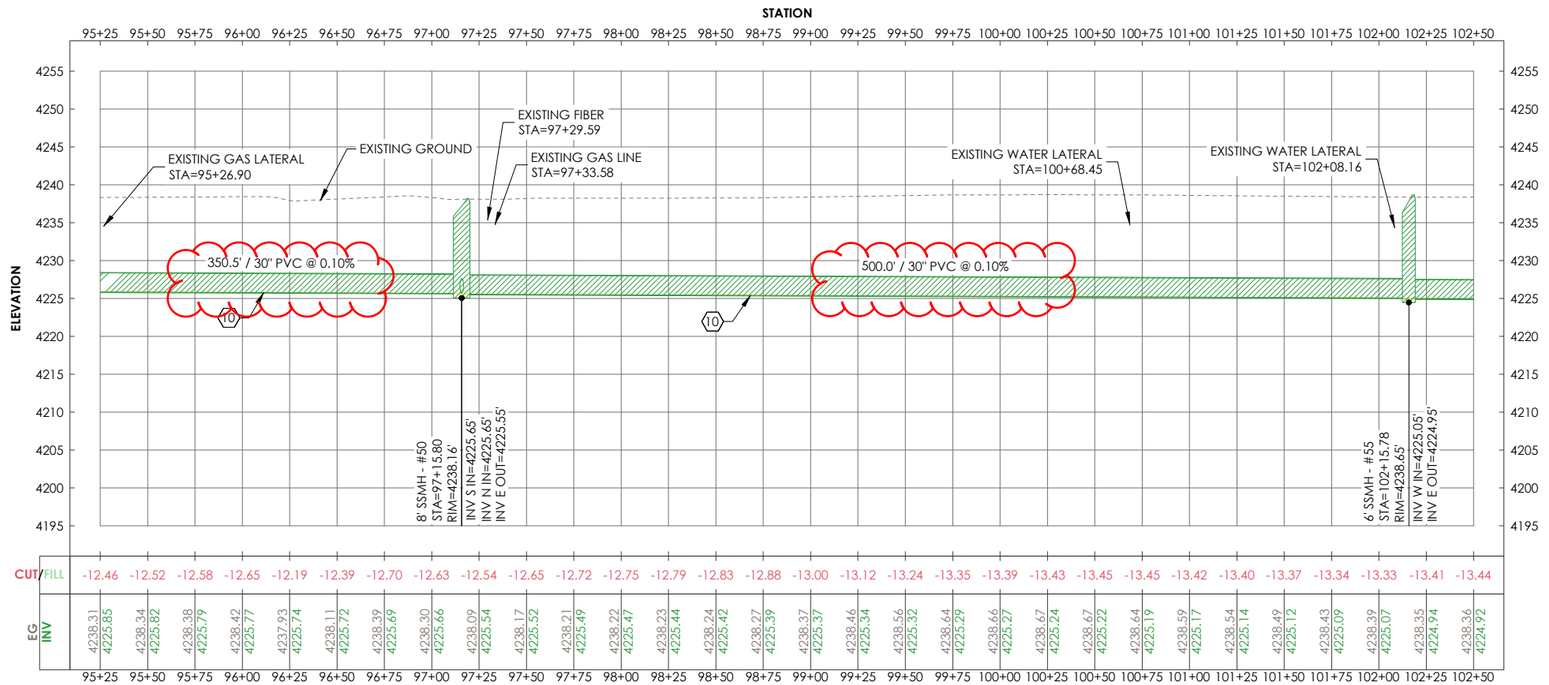
CU113

JUMP TO FORCE MAIN OVERVIEW



MATCHLINE SEE SHEET CU113

MATCHLINE SEE SHEET CU115



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PROMONTORY LIFT STATION

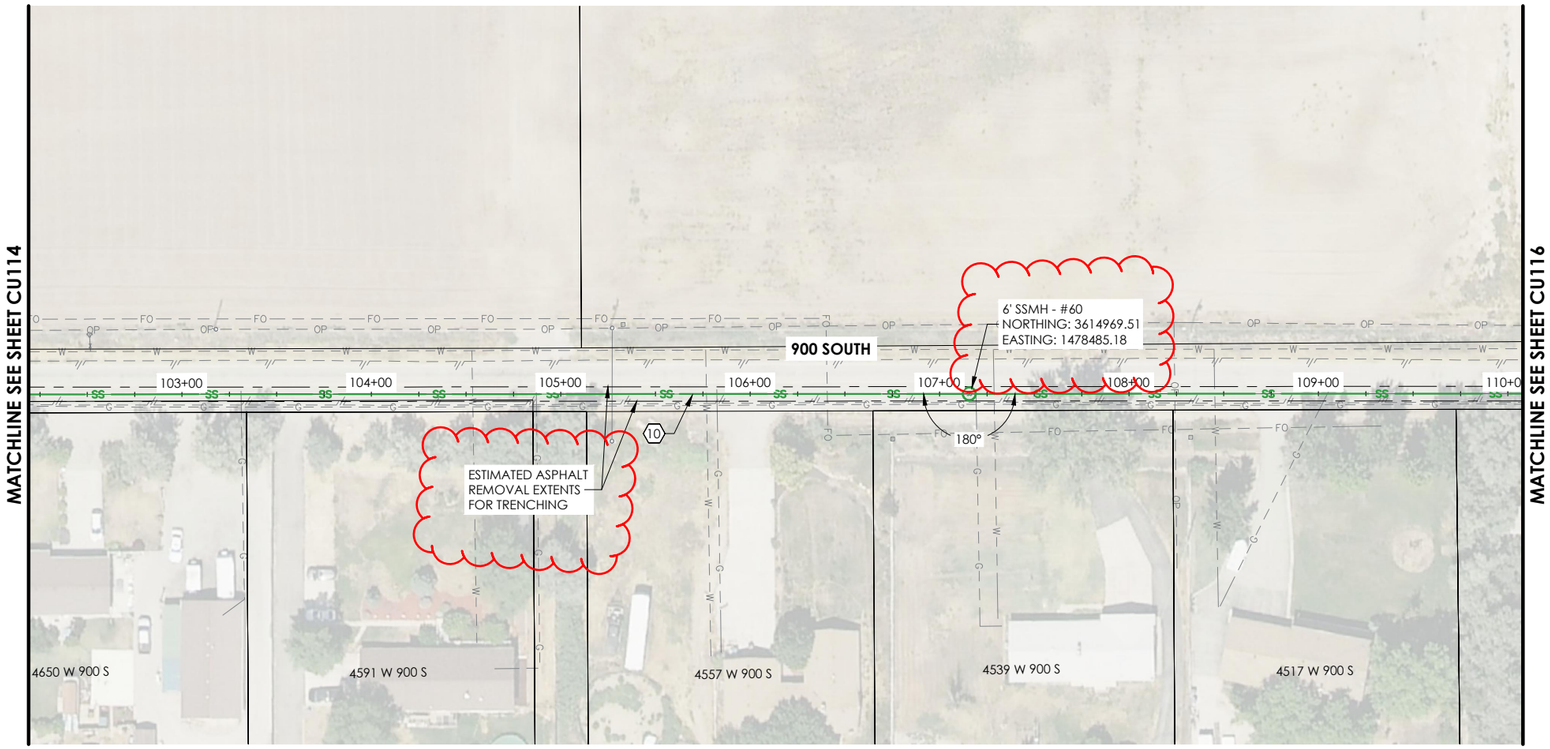
6137 W 900 S OGDEN UT 84404

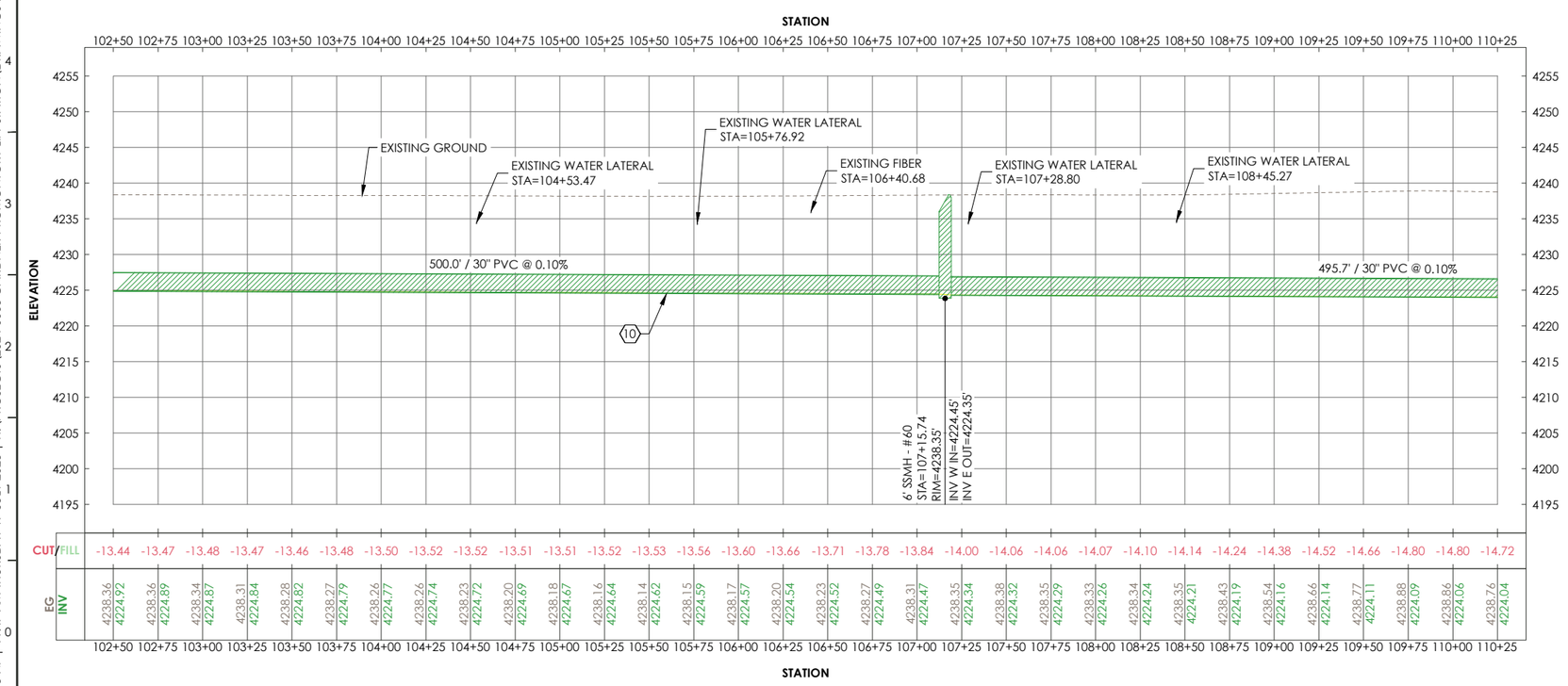
SEWERLINE PLAN & PROFILE

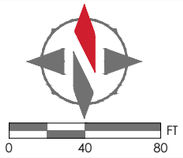
57 OF 67

CU114

UT83-NF | 11:46 AM THURSDAY 17 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\57 CU114.DWG







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1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
17 JULY 2025

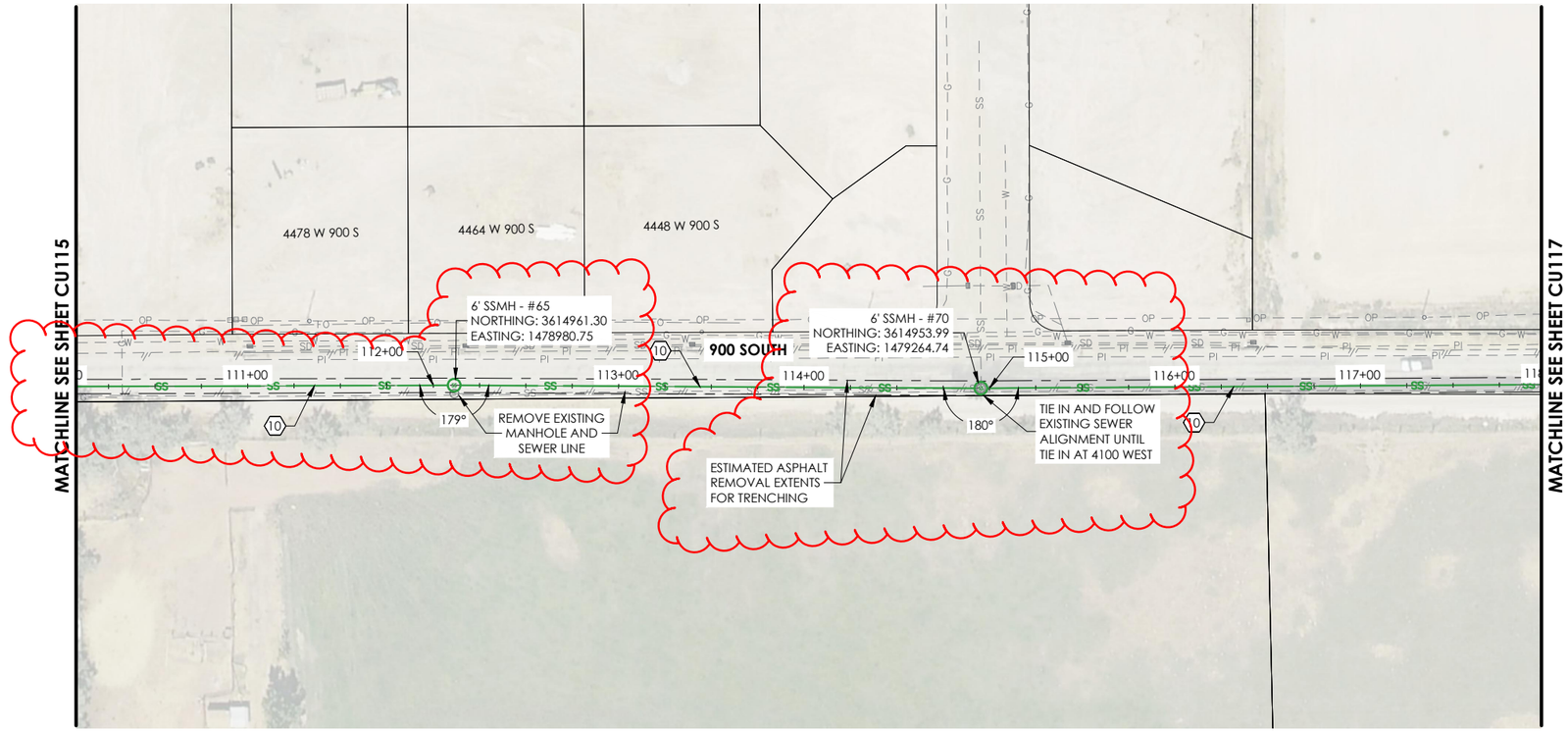
PROMONTORY LIFT STATION

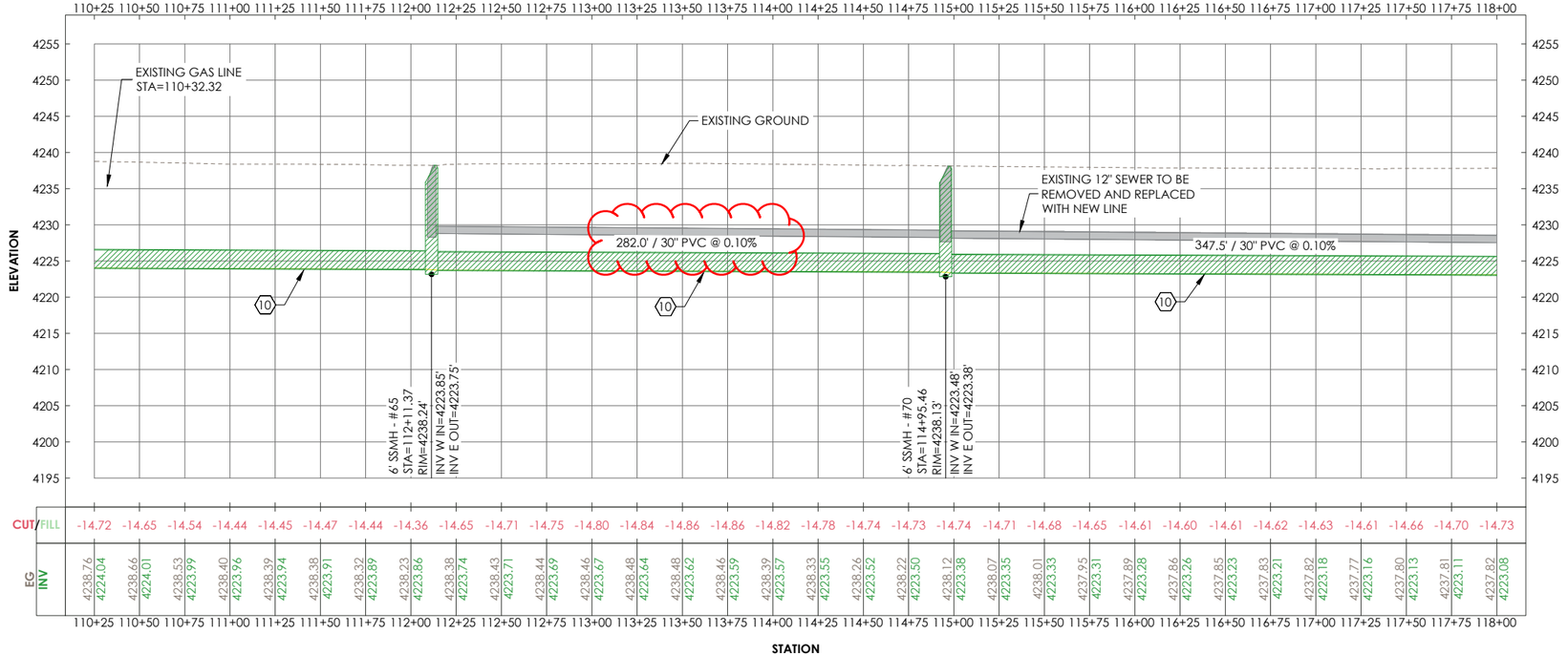
6137 W 900 S OGDEN UT 84404

SEWERLINE PLAN & PROFILE

58 OF 67

CU115





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3	EXISTING WATERLINE	
4	EXISTING DOMINION GAS LINE, EXACT LOCATION UNKOWN	
5	EXISTING STORM DRAIN	
6	2" AIR-VAC VALVE ASSEMBLY	29 - CU503
7	24" STEEL CASING (7/16" THICK WALL), FILL ANNULAR SPACE WITH NEAT CEMENT	28 - CU503
8	PROMONTORY LIFT STATION	
9	TRANSITION TO GRAVITY FLOW	25 - CU502
10	30" SDR-35 ASTM D 3034 PVC SEWER MAIN	26 - CU502
11	REMOVE AND RELOCATE EXISTING STORM DRAIN	
12	EXISTING BURIED POWER	
13	REPLACE EXISTING MANHOLE, TIE-IN TO EXISTING SEWER LINES	24 - CU501
14	RECONNECT SEWER LATERAL TO NEW SEWER MAIN	31 - CU504
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REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

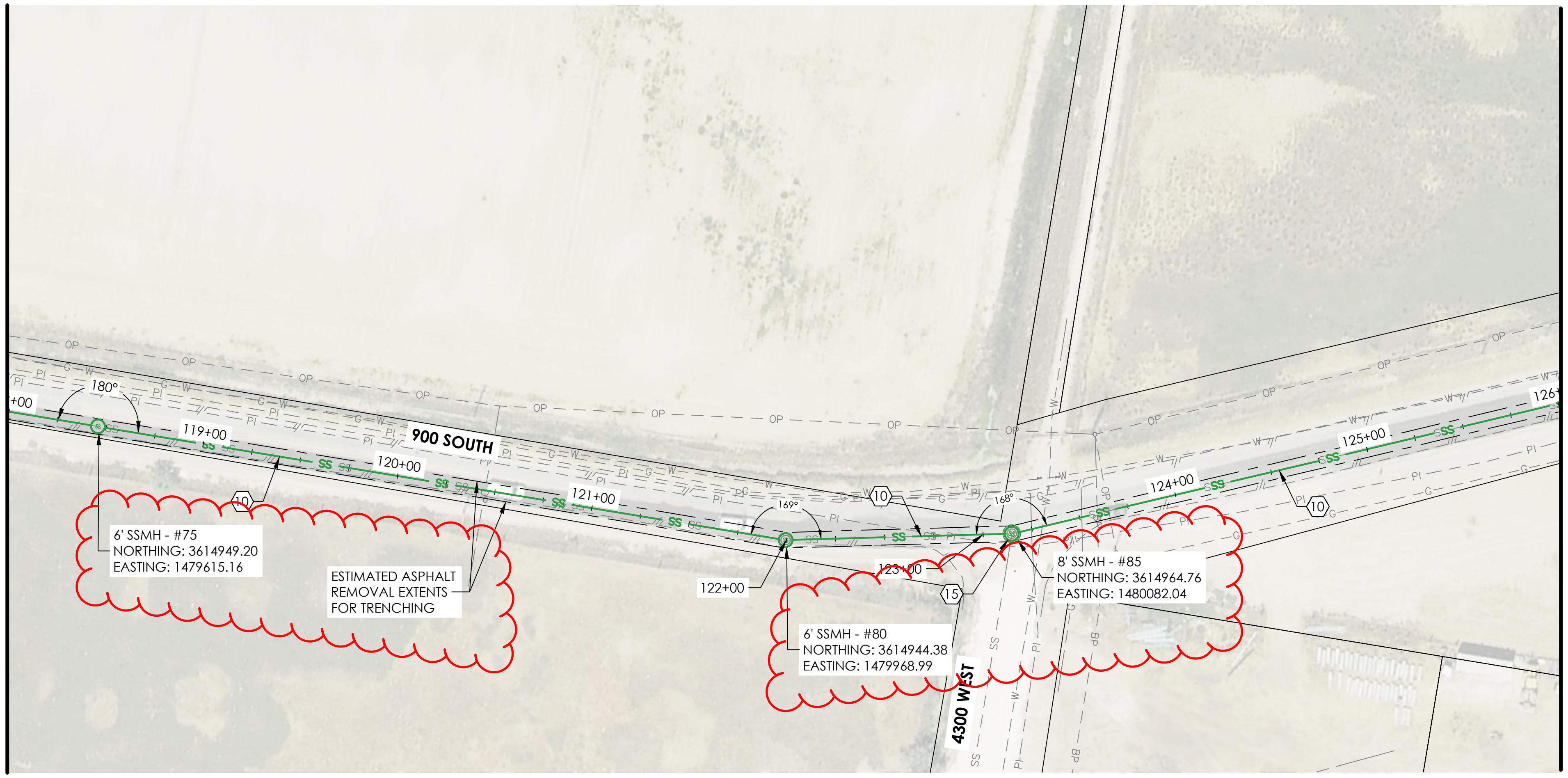
PROJECT

2024-0063
17 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

JUMP TO FORCE MAIN OVERVIEW



FT 0 40 80

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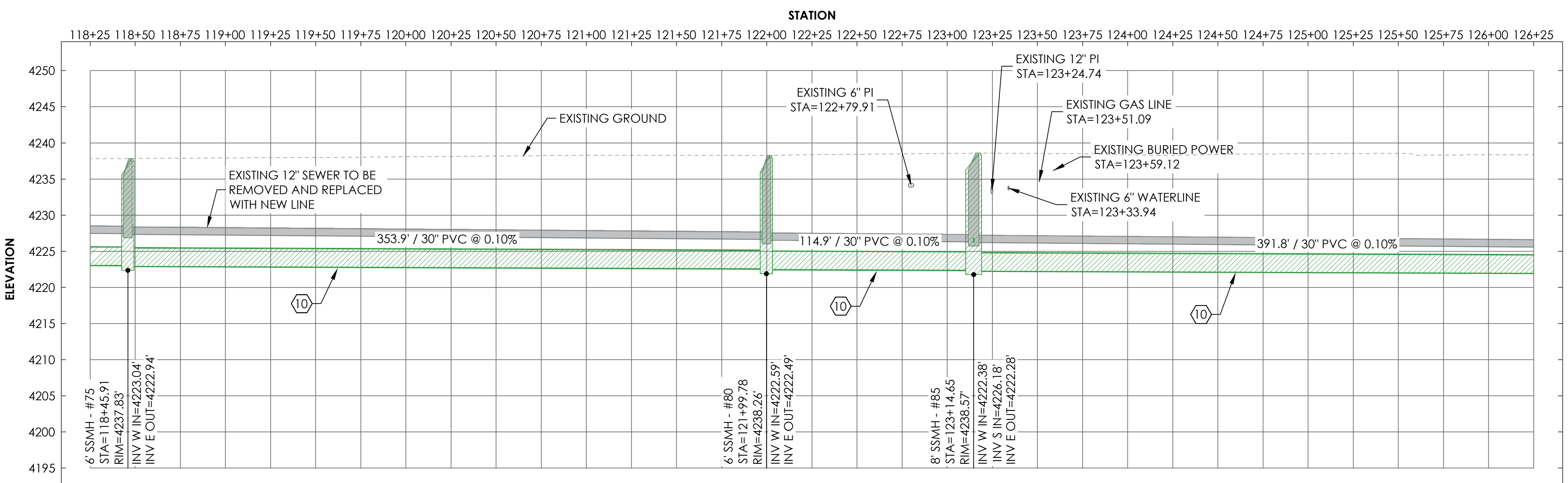

STATION	CUT/FILL	EG	INV
118+25	-14.77	4237.83	4223.06
118+50	-14.90	4237.84	4222.94
118+75	-14.97	4237.88	4222.91
119+00	-15.03	4237.92	4222.89
119+25	-15.10	4237.96	4222.86
119+50	-15.15	4237.99	4222.84
119+75	-15.22	4238.03	4222.81
120+00	-15.29	4238.08	4222.79
120+25	-15.37	4238.13	4222.76
120+50	-15.44	4238.18	4222.74
120+75	-15.52	4238.23	4222.71
121+00	-15.60	4238.29	4222.69
121+25	-15.63	4238.29	4222.66
121+50	-15.64	4238.28	4222.64
121+75	-15.66	4238.27	4222.61
122+00	-15.73	4238.26	4222.54
122+25	-15.90	4238.36	4222.47
122+50	-15.98	4238.42	4222.44
122+75	-16.06	4238.48	4222.42
123+00	-16.15	4238.54	4222.39
123+25	-16.30	4238.57	4222.27
123+50	-16.29	4238.54	4222.24
123+75	-16.28	4238.50	4222.22
124+00	-16.17	4238.37	4222.20
124+25	-16.11	4238.28	4222.17
124+50	-16.26	4238.41	4222.15
124+75	-16.34	4238.46	4222.12
125+00	-16.39	4238.49	4222.10
125+25	-16.45	4238.52	4222.07
125+50	-16.51	4238.56	4222.05
125+75	-16.30	4238.32	4222.02
126+00	-16.35	4238.34	4222.00
126+25	-16.38	4238.35	4221.97

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11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
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PROJECT

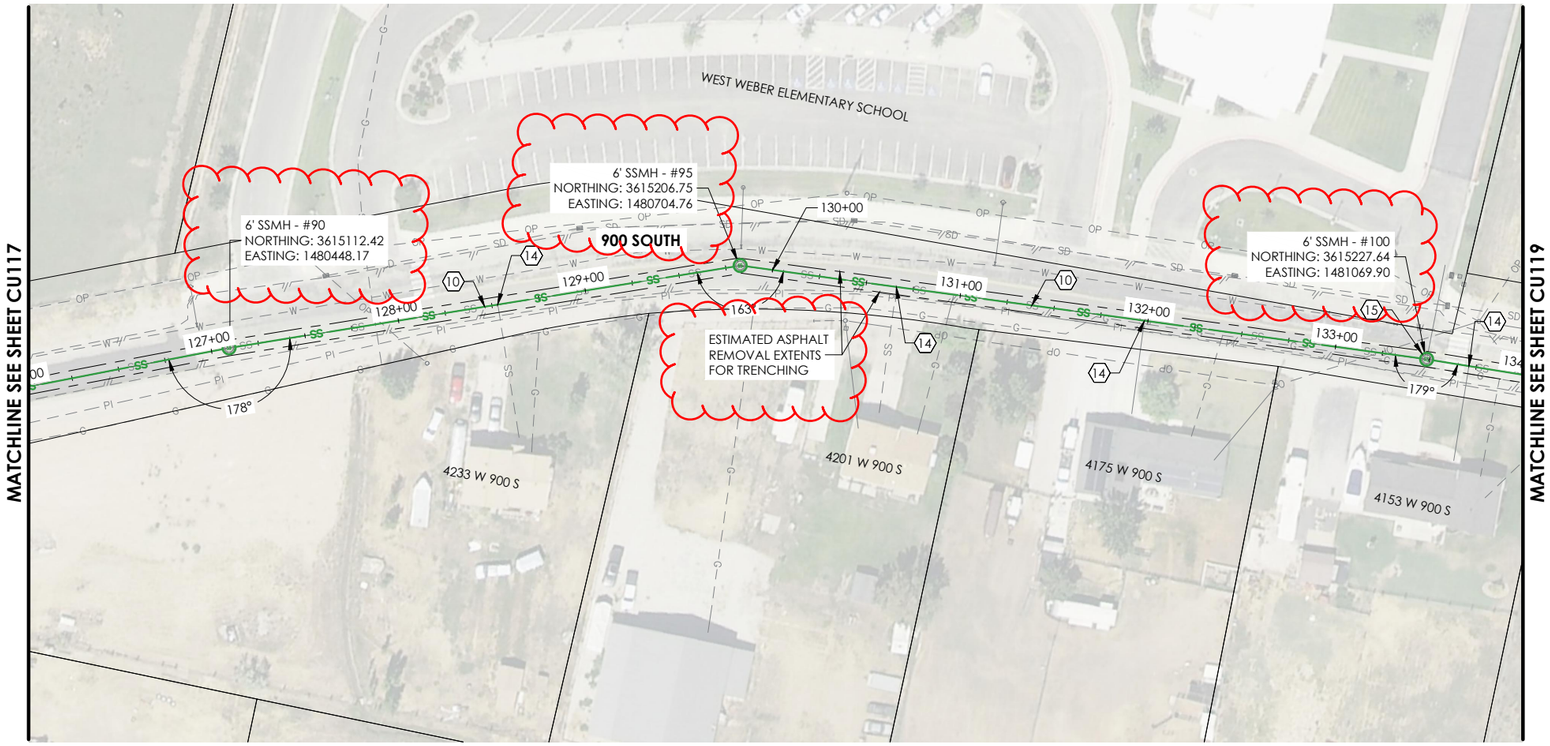
2024-0063
17 JULY 2025

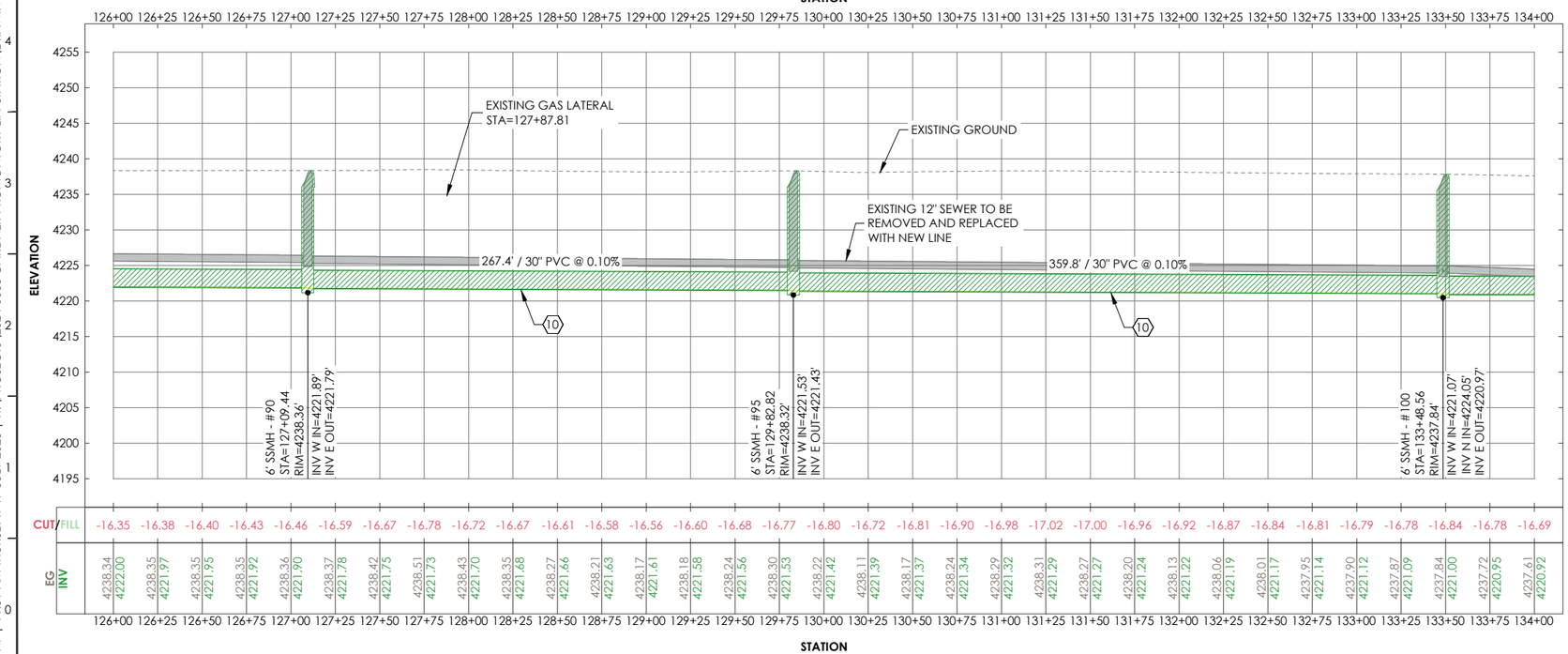
PROMONTORY LIFT STATION

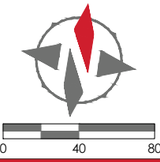
6137 W 900 S OGDEN UT 84404

SEWERLINE PLAN & PROFILE

UT83-NF | 11:50 AM THURSDAY 17 JULY 2025 | H:\PROJECTS\2024-0063 GARDNER-PROMONTORY LIFT STATION\DRAWINGS\SHEETS\60 CU117.DWG







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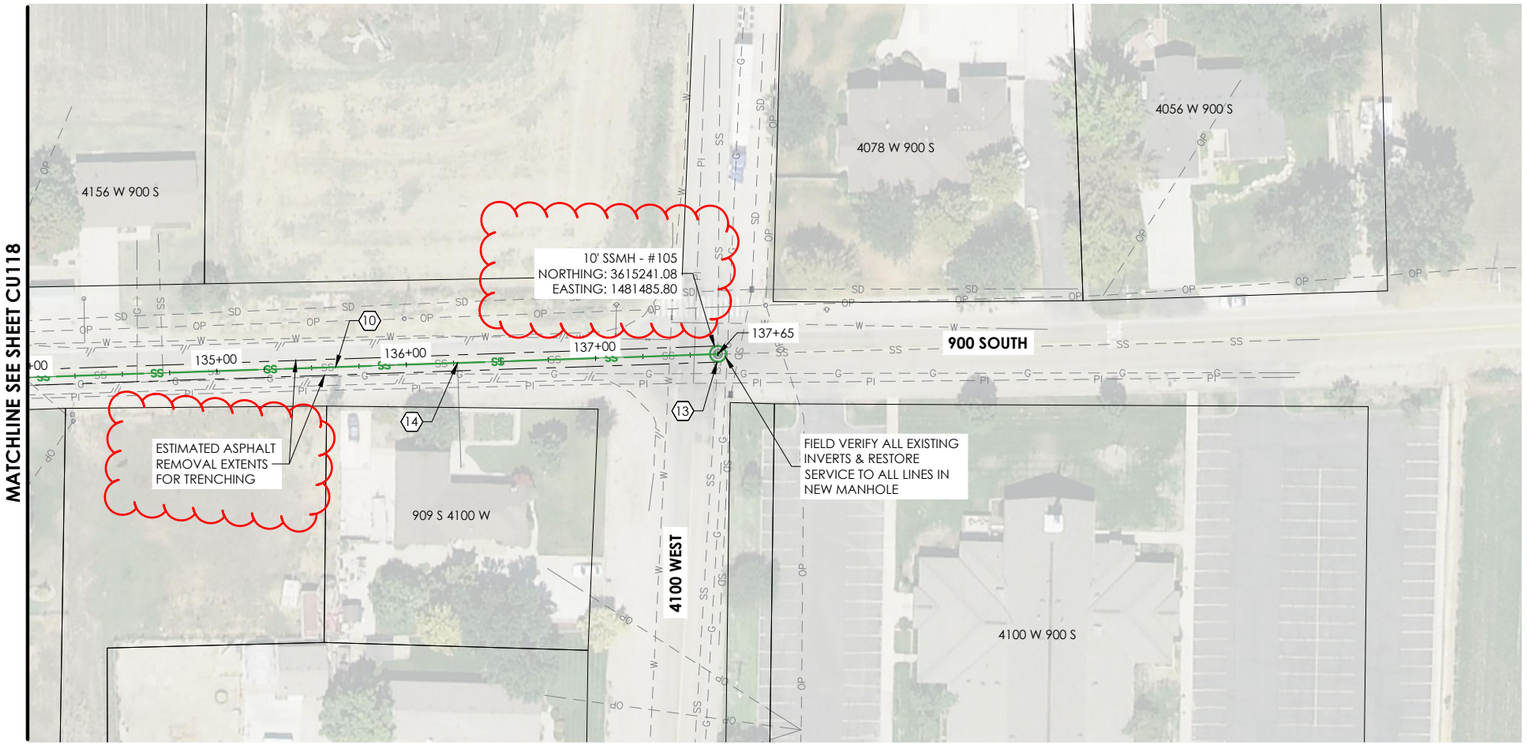
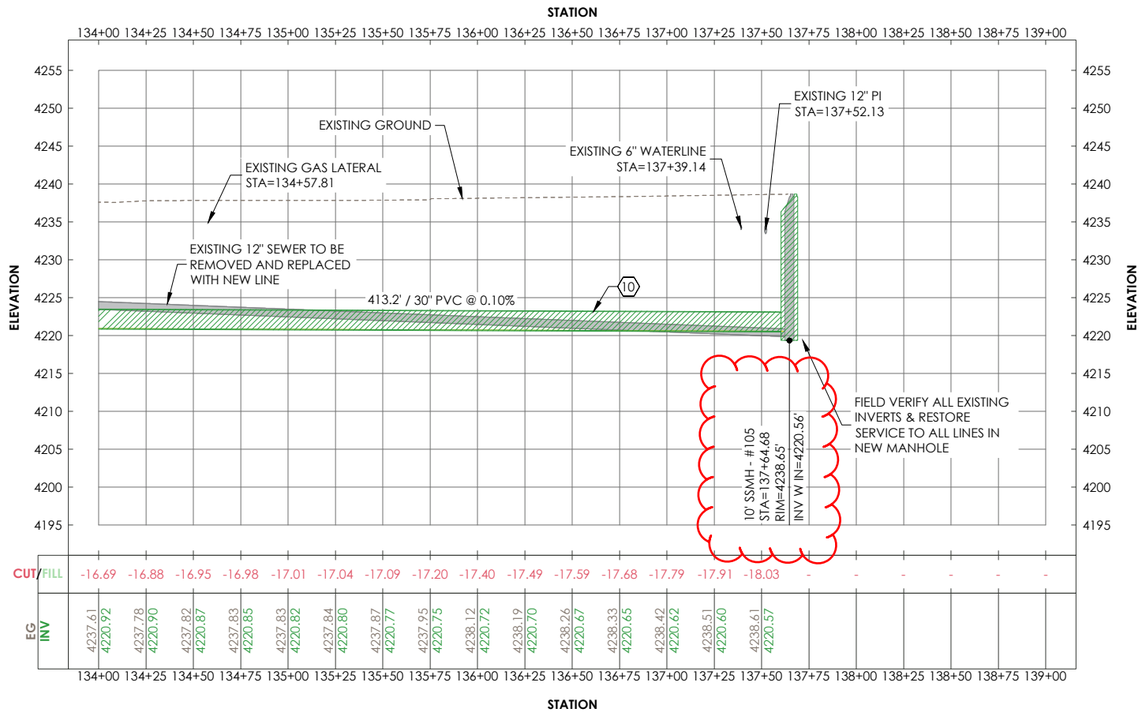
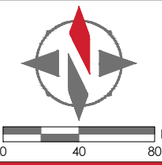
SEWERLINE PLAN & PROFILE

61 OF 67

CU118







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11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
17 JULY 2025

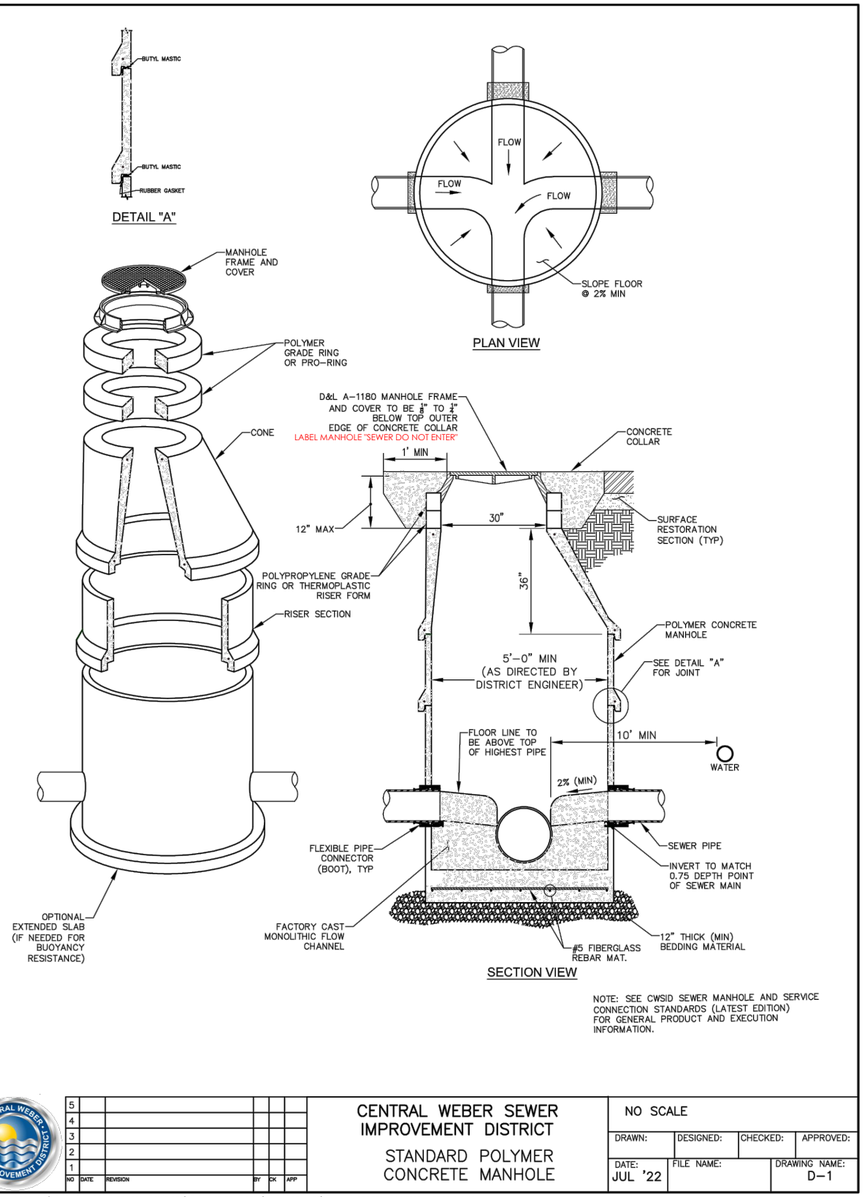
PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

SEWERLINE PLAN & PROFILE

62 OF 67

CU119



NOTE: SEE CWSID SEWER MANHOLE AND SERVICE CONNECTION STANDARDS (LATEST EDITION) FOR GENERAL PRODUCT AND EXECUTION INFORMATION.

NO	DATE	REVISION	BY	CK	APP
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CENTRAL WEBER SEWER IMPROVEMENT DISTRICT

STANDARD POLYMER CONCRETE MANHOLE

NO SCALE

DRAWN:	DESIGNED:	CHECKED:	APPROVED:
DATE: JUL '22	FILE NAME:	DRAWING NAME: D-1	

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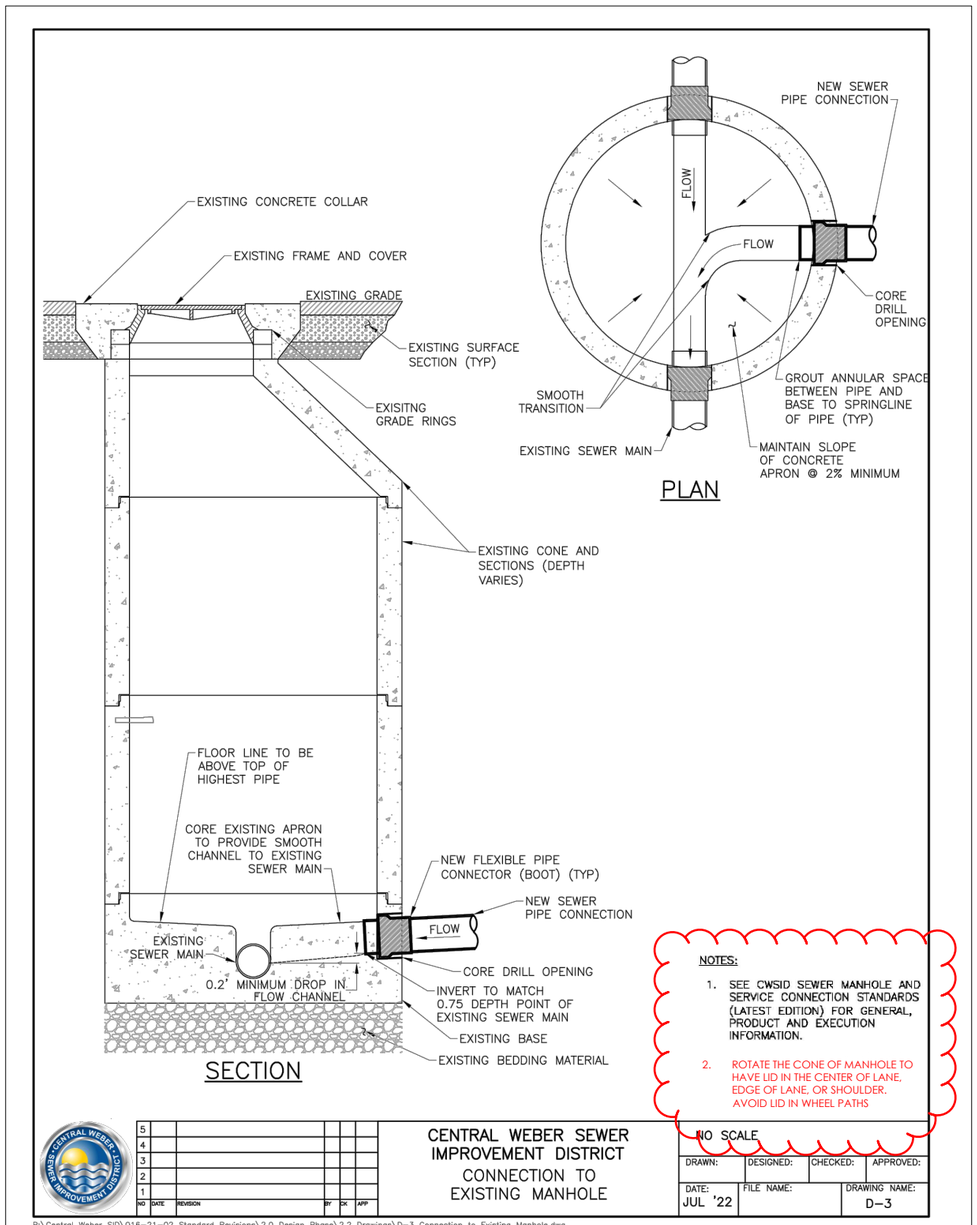
23 CONCRETE POLYMER MANHOLE



NOTES:

1. SEE CWSID SEWER MANHOLE AND SERVICE CONNECTION STANDARDS (LATEST EDITION) FOR GENERAL, PRODUCT AND EXECUTION INFORMATION.
2. ROTATE THE CONE OF MANHOLE TO HAVE LID IN THE CENTER OF LANE, EDGE OF LANE, OR SHOULDER. AVOID LID IN WHEEL PATHS

NO	DATE	REVISION	BY	CK	APP
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CENTRAL WEBER SEWER IMPROVEMENT DISTRICT

CONNECTION TO EXISTING MANHOLE

NO SCALE

DRAWN:	DESIGNED:	CHECKED:	APPROVED:
DATE: JUL '22	FILE NAME:	DRAWING NAME: D-3	

P:\Central Weber SID\016-21-02 Standard Revisions\2.0 Design Phase\2.2 Drawings\D-3 Connection to Existing Manhole.dwg

24 CONNECTION TO EXISTING MANHOLE

CONTACT INFORMATION

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REVISIONS

1	JAP 7/31/25 ADDENDUM 1 RFI RESPONSES AND COORDINATES

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DESIGN

REGISTERED PROFESSIONAL ENGINEER
JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

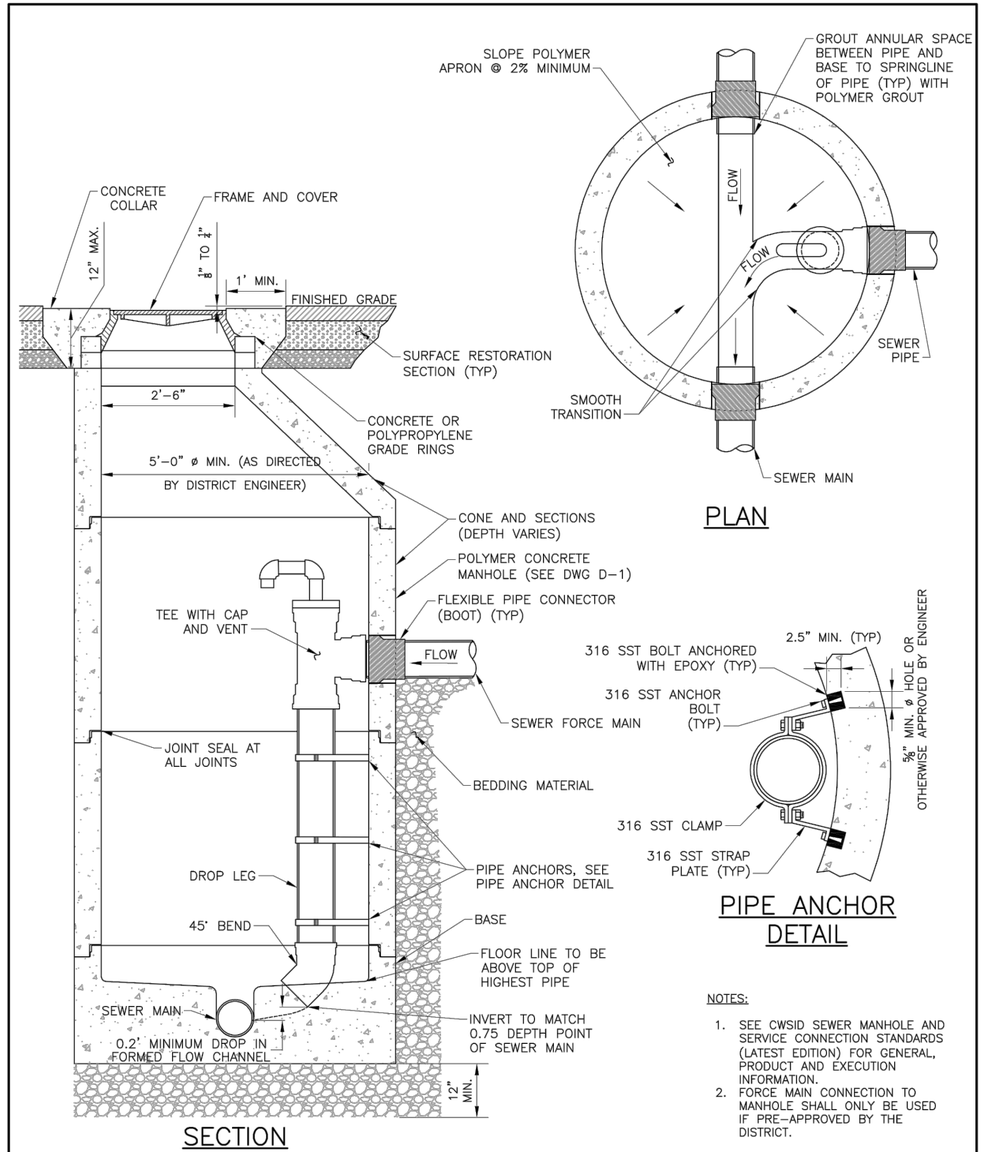
PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

PROJECT

2024-0063
18 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404



NOTES:

1. SEE CWSID SEWER MANHOLE AND SERVICE CONNECTION STANDARDS (LATEST EDITION) FOR GENERAL, PRODUCT AND EXECUTION INFORMATION.
2. FORCE MAIN CONNECTION TO MANHOLE SHALL ONLY BE USED IF PRE-APPROVED BY THE DISTRICT.

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CENTRAL WEBER SEWER IMPROVEMENT DISTRICT

FORCE MAIN CONNECTION TO POLYMER MANHOLE

NO SCALE

DRAWN:	DESIGNED:	CHECKED:	APPROVED:
DATE: JUL '22	FILE NAME:	DRAWING NAME: D-8	

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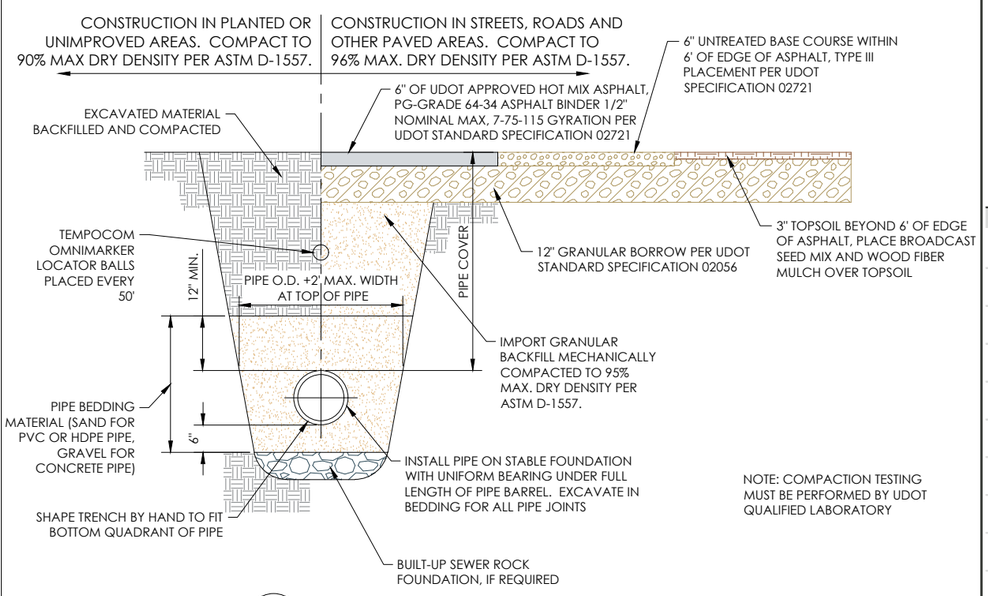
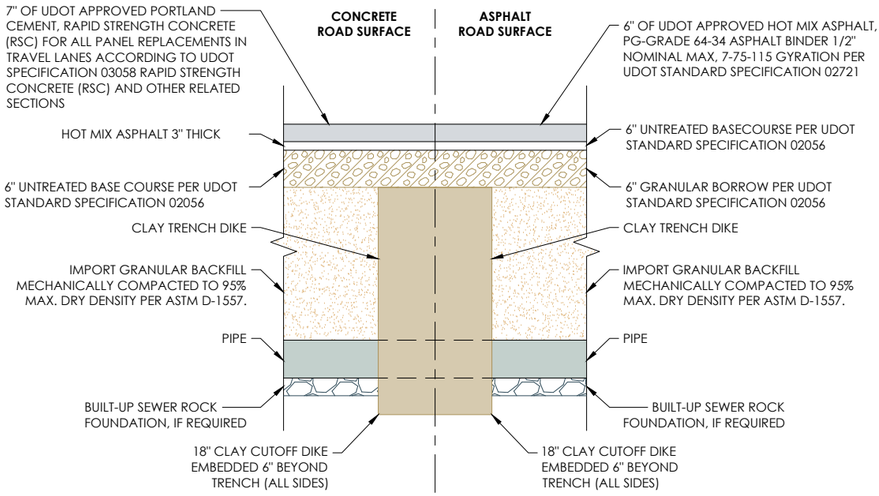
25 FORCE MAIN CONNECTION TO MH



NOTE: COMPACTION TESTING MUST BE PERFORMED BY UDOT QUALIFIED LABORATORY

26 TYPICAL SEWER PIPE TRENCH



NOTE: COMPACTION TESTING MUST BE PERFORMED BY UDOT QUALIFIED LABORATORY

27 TRENCH DIKE AND CUTOFF WALLS DETAIL
NOT TO SCALE

CONTACT INFORMATION

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JOSHUA PRETTYMAN
No. 9637735-2202
11/1/24
STATE OF UTAH

PRINCIPAL : M CHANDLER
MANAGER: J PRETTYMAN
REVIEWER : S WOODRUFF
DRAFTER : C. HAMMON

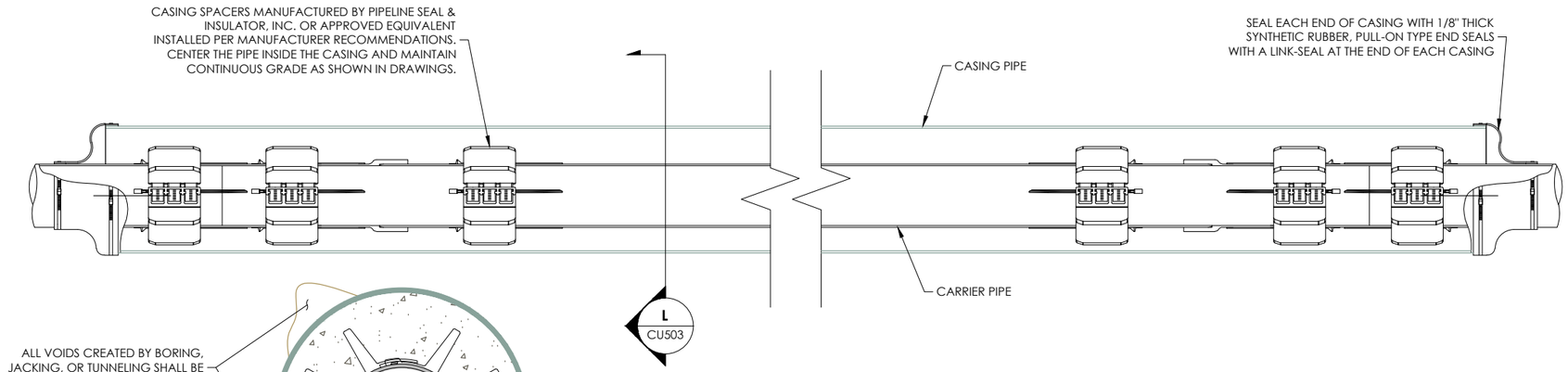
PROJECT

2024-0063
18 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

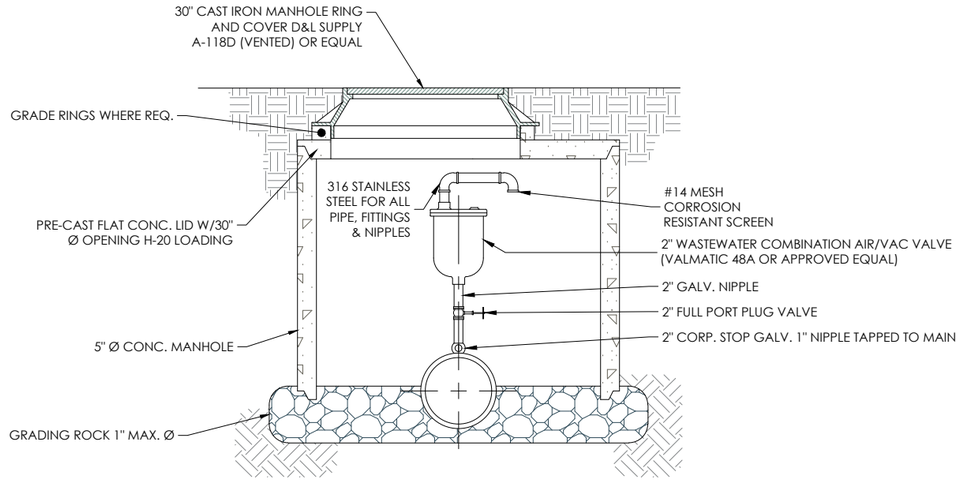
UTILITY DETAILS | 64 OF 67 | CU502



L **STEEL CASING SECTION**

NOTES:
1) CASING PIPES SHALL BE REQUIRED AS INDICATED ON DRAWINGS
2) THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE SIZED AT LEAST 6" LARGER THAN THE OUTSIDE DIAMETER OF CARRIER PIPE.
3) CARRIER PIPE SHALL BE TESTED BEFORE SEALING THE ENDS OF THE CASING.
4) SPACERS SHALL BE SECURELY ATTACHED TO CARRIER PIPE PER MANUFACTURER'S REQUIREMENTS.
5) CASING PIPE SHALL BE WELDED STEEL, ASTM A53, GRADE B.
6) THERE SHALL BE A MAXIMUM OF 1' FROM THE ENDS OF THE CASING TO THE 1ST SPACER.

28 **STEEL CASING**



29 **AIR-VAC VALVE**

CONTACT INFORMATION

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PROJECT

2024-0063
10 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

UTILITY DETAILS

65 OF 67

CU503

JUMP TO FORCE MAIN OVERVIEW
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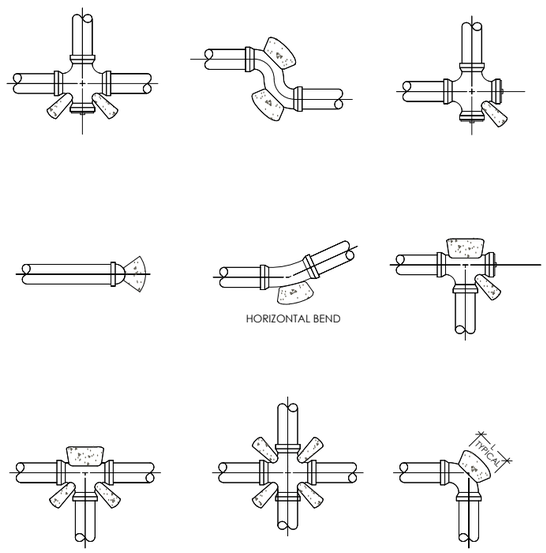


THRUST BLOCKS

NOTES:

1. THRUST BLOCKS TO BE SIZED USING 200 PSI WATER PRESSURE AND SOIL BEARING PRESSURE AS DETERMINED FROM A SITE SPECIFIC SOILS REPORT. THE TABLE IS FOR A SOIL BEARING PRESSURE OF 1000 PSF.

2. CONCRETE: CLASS 2000 MINIMUM PER APWA SECTION 03 30 04. POUR CONCRETE AGAINST UNDISTURBED SOIL.

3. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.

4. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.

5. SPECIAL CONSTRUCTION REQUIREMENTS:
   A. THRUST DESIGN FOR PIPE SIZES, CONFIGURATIONS AND SOIL BEARING PRESSURE NOT SHOWN REQUIRE SPECIAL DESIGN.
   B. BEARING AREAS, VOLUMES AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS PLAN.
   C. REINFORCING STEEL BARS TO BE EPOXY COATED AT LEAST 15 MILS THICK. MINIMUM STRESS YIELD OF TIE DOWN BARS IS 70,000 PSI.
   D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUNCTION WITH CONCRETE THRUST BLOCKING (WITH APPROVAL)

6. INSPECTION: PRIOR TO BACKFILLING AROUND THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY CITY.

7. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95-PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION.

THRUST BLOCK SIZING ASSUMING 1000 PSF SOIL BEARING PRESSURE

PIPE DIAMETER	11.25 Degree Bend			22.5 Degree Bend			45 Degree Bend		
	W	H	L	W	H	L	W	H	L
4"	0.84	0.84	0.72	1.18	1.18	1.02	1.67	1.67	1.45
6"	1.22	1.22	1.06	1.73	1.73	1.50	2.41	2.41	2.09
8"	1.58	1.58	1.37	2.24	2.24	1.94	3.13	3.13	2.71
10"	1.95	1.95	1.69	2.76	2.76	2.39	3.85	3.85	3.33
12"	2.32	2.32	2.01	3.27	3.27	2.83	4.58	4.58	3.97
14"	2.68	2.68	2.32	3.79	3.79	3.29	5.31	5.31	4.60
16"	3.05	3.05	2.64	4.31	4.31	3.73	6.03	6.03	5.22
18"	3.42	3.42	2.96	4.83	4.83	4.18	6.76	6.76	5.85
20"	3.78	3.78	3.27	5.34	5.34	4.62	7.48	7.48	6.48
24"	4.53	4.53	3.92	6.39	6.39	5.53	8.94	8.94	7.75

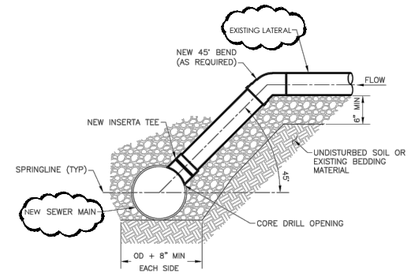
PIPE DIAMETER	67.5 Degree Bend			90 Degree Bend			Tee, Dead End, Valve		
	W	H	L	W	H	L	W	H	L
4"	2.00	2.00	1.73	2.26	2.26	1.96	1.90	1.90	1.64
6"	2.90	2.90	2.51	3.27	3.27	2.83	2.76	2.76	2.39
8"	3.77	3.77	3.26	4.25	4.25	3.68	3.58	3.58	3.10
10"	4.65	4.65	4.02	5.23	5.23	4.53	4.40	4.40	3.81
12"	5.51	5.51	4.77	6.22	6.22	5.39	5.23	5.23	4.53
14"	6.40	6.40	5.54	7.21	7.21	6.25	6.07	6.07	5.25
16"	7.27	7.27	6.30	8.20	8.20	7.10	6.90	6.90	5.97
18"	8.15	8.15	7.06	9.20	9.20	7.97	7.73	7.73	6.70
20"	9.02	9.02	7.81	10.17	10.17	8.81	8.56	8.56	7.41
24"	10.78	10.78	9.34	12.16	12.16	10.53	10.23	10.23	8.86

REVISED 02/05/08

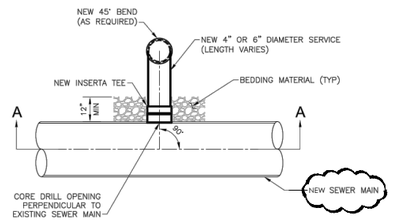
PLAN NO. 561 SP
DRAWING 1 OF 1

PLAN NO. 561 SP

30 **THRUST BLOCKS**



SECTION AA



PLAN

NOTES:

1. SEE CWSID SEWER MANHOLE AND SERVICE CONNECTION STANDARDS (LATEST EDITION) FOR GENERAL, PRODUCT AND EXECUTION INFORMATION.

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#	DATE	Revision	#	BY	APP

CENTRAL WEBER SEWER IMPROVEMENT DISTRICT

NO SCALE

DRAWN:	DESIGNED:	CHECKED:	APPROVED:
DATE: MAR '22	FILE NAME:	DRAWING NAME: D–6	

P:\Central Weber SID\016-21-02 Standard Revisions\3.0 Design Phase\2.2 Drawings\D-6 Service Connection To Existing Sewer Main Line.dwg

31 **SEWER LATERAL RECONNECTION**

CONTACT INFORMATION

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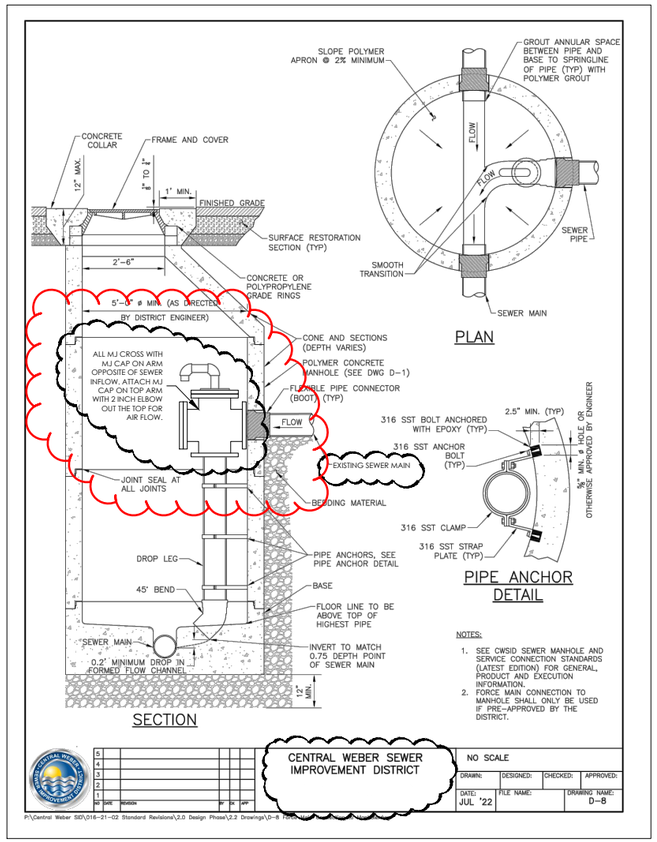

32 SEWER MAIN RECONNECTION

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PROJECT

2024-0063
30 JULY 2025

PROMONTORY LIFT STATION

6137 W 900 S OGDEN UT 84404

UTILITY DETAILS
67 OF 67
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