

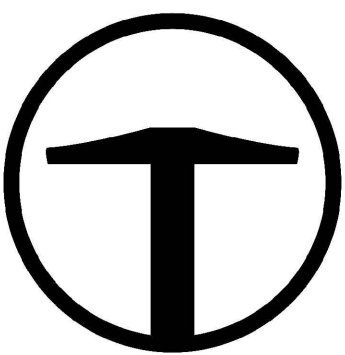
# POWDER POINT AT POWDER MOUNTAIN DESIGN DEVELOPMENT DRAWINGS

Located in Weber County, Utah

**SHEET INDEX:**

| SHEET NO. | SHEET DESCRIPTION                      |
|-----------|--|
| C000      | COVER SHEET                            |
| C001      | GENERAL NOTES                          |
| C002      | TYPICAL ROAD AND PAVEMENT SECTIONS     |
| C200      | DEMOLITION & SITE PLAN                 |
| C300      | GRADING PLAN                           |
| C400      | UTILITY PLAN                           |
| C500      | PLAN AND PROFILE                       |
| C501      | OFFSITE SEWER LINE PLAN AND PROFILE    |
| C502      | DRAINAGE CHANNEL PLAN AND PROFILE      |
| C503      | STORMWATER CONVEYANCE PLAN AND PROFILE |
| C600      | EROSION CONTROL PLAN                   |
| C601      | OFFSITE EROSION CONTROL                |
| C700      | DETAILS                                |
| C701      | DETAILS                                |
| C702      | DETAILS                                |
| C703      | DETAILS                                |
| C800      | DRY UTILITY PLAN                       |

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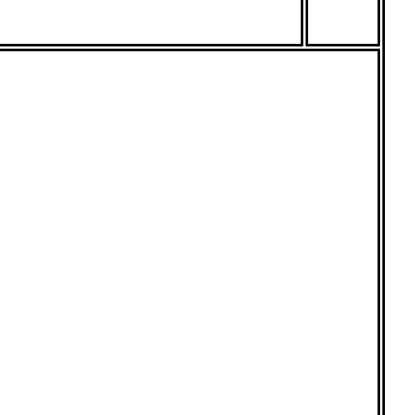


**TALISMAN**  
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1588 SOUTH MAIN STREET  
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**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
COVER SHEET**

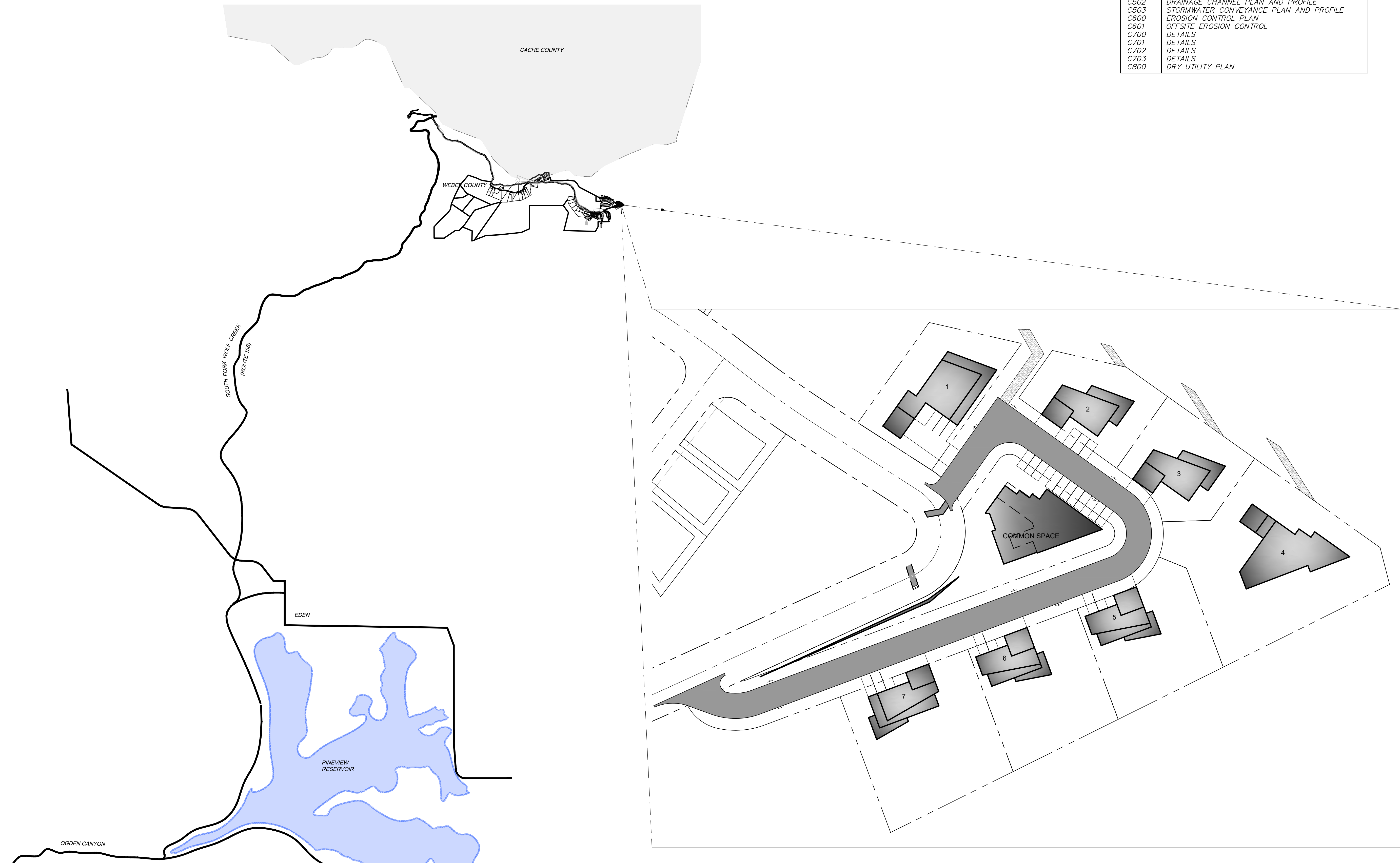
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**C000**  
1 OF 16



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GENERAL NOTES

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
2. CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
3. TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT UDOT TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
5. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
7. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
8. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
11. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND.
13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLASHING, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
16. 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. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
17. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE 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 HIS EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS 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 HIS 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 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 HE HAS NOT RELIED SOLELY UPON OWNER- OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
20. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
21. 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 NEGLIGENCE OF THE OWNER OR THE ENGINEER.
22. 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 TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
23. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
24. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
25. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD 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 RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
26. 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.

GENERAL NOTES CONT.

- 27. 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. 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 THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING.
29. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.

UTILITY NOTES

- 1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.
2. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS). PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-862-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
3. CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIRED PROCEDURES.
4. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
5. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
6. CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
7. CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
8. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX.
9. SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
11. EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED, SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED.
12. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
13. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS. AT WATER/SEWER CROSSINGS, WATER IS REQUIRED TO CROSS ABOVE SANITARY SEWER UNLESS AN EXCEPTION HAS BEEN GRANTED BY THE UTAH DIVISION OF DRINKING WATER.
14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
16. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).
17. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 108" OF COVER TO TOP OF PIPE BELOW FINISHED GRADE.
18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES.
19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, CUTTING, SIDEWALK AND STREET PAVING.
21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
22. THE CONTRACTOR SHALL NOTIFY TALISMAN CIVIL CONSULTANTS, LLC. IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE REGULATORY AGENCY STANDARD SPECIFICATIONS.
23. UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH.
24. THE CONTRACTOR SHALL MARK ALL UNDERGROUND UTILITIES IN LOCATIONS WHERE UTILITIES ARE NOT LOCATED WITHIN A ROADWAY. THE CONTRACTOR SHALL MARK UTILITIES AT ANGLE POINTS, PCs, AND Pts WITH A 2' REBAR STAKE INSTALLED FLUSH TO GRADE. SURVEY ALL LOCATIONS AND PROVIDE GPS COORDINATES WITH AS-BUILT DRAWINGS.
25. ANY CHANGES TO THE ROAD GRADE OR PROFILE NEED TO BE APPROVED BY POWDER MOUNTAIN, AS THIS MAY AFFECT THE FINAL BURY DEPTH OF WATER LINES.
26. PROVIDE AND INSTALL FIRE HYDRANT IDENTIFICATION FLAGS ON ALL FIRE HYDRANTS WITHIN PROJECT PER POWDER MOUNTAIN RECOMMENDATIONS.
27. ALL FLUSHING SHALL BE OVERSEEN BY PMWSID. PROVIDE 48 HOURS NOTICE PRIOR TO FLUSHING.
28. ALL WORK ON WATER AND SEWER INFRASTRUCTURE REQUIRES INSPECTION BY PMWSID. PROVIDE 48 HOURS NOTICE PRIOR TO WORK COMMENCEMENT.
29. NO CONSTRUCTION WATER SHALL BE TAKEN FROM THE EXISTING WATER SYSTEM WITHOUT APPROVAL FROM THE DISTRICT.

LEGEND:

Table with columns: SYMBOL / LINETYPE, DESCRIPTION, and DETAIL. Lists various utility symbols like 8"W PVC, 10"W PVC, 8"HDPE, 10"HDPE, 12"HDPE, 2"W, 8"SS PVC, 15"SD, 18"SD, 6"CDM, 6" P, 8"W, 16"W, 15"SD, 8"SS, 4" P, 4" P, 4" P, 8"SS HDPE, 15"SD, 16"SD, 18"SD, and 8"SS.

NOTE: LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN PLAN SET.
EROSION CONTROL GENERAL NOTES:

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DIVISION OF WATER QUALITY.

MAINTENANCE:
ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL VEGETATION IS RE-ESTABLISHED.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

EXPOSED SLOPES:
ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED
B) TRACKING STRAW PERPENDICULAR TO SLOPES
C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

SCOPE OF WORK:
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

CULINARY WATER NOTES

- 1. ALL MATERIALS THAT MAY COME IN CONTACT WITH DRINKING WATER, INCLUDING PIPES, GASKETS, LUBRICANTS AND O-RINGS, SHALL BE ANSI-CERTIFIED AS MEETING THE REQUIREMENTS OF ANSI/NSF STANDARD 61, DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS. TO PERMIT FIELD-VERIFICATION OF THIS CERTIFICATION, ALL COMPONENTS SHALL BE APPROPRIATELY STAMPED WITH THE NSF LOGO.
2. FITTINGS, VALVES, AND FIRE HYDRANTS SHALL CONFORM TO AISEE STANDARD 61, AND APPLICABLE SECTIONS OF AWWA STANDARDS C104-A21.4-08 THROUGH C550-05 AND C900-07 THROUGH C950-07.
3. FOR PVC PIPE, ASTM D2774, RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING AND PVC PIPE AND AWWA MANUAL OF PRACTICE M23, 2003.
4. FOR HDPE PIPE, ASTM D2774, RECOMMENDED PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING AND AWWA MANUAL OF PRACTICE M55, 2006.
5. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600-10.
6. THE OPEN ENDS OF ALL PIPELINES UNDER CONSTRUCTION SHALL BE COVERED AND EFFECTIVELY SEALED AT THE END OF THE DAY'S WORK.
7. ALL NEW WATER MAINS OR APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651-05 OR A METHOD APPROVED BY THE DIRECTOR. THE SPECIFICATIONS SHALL INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION AND MICROBIOLOGICAL TESTING OF ALL WATER MAINS. ON ALL NEW AND EXTENSIVE DISTRIBUTION SYSTEM CONSTRUCTION, EVIDENCE OF SATISFACTORY DISINFECTION SHALL BE PROVIDED TO THE DIVISION. SAMPLES FOR COLIFORM ANALYSES SHALL BE COLLECTED AFTER DISINFECTION IS COMPLETED AND THE SYSTEM IS REFILLED WITH DRINKING WATER. A STANDARD HETEROTROPHIC PLATE COUNT IS ADVISABLE. THE USE OF WATER FOR PUBLIC DRINKING WATER PURPOSES SHALL NOT COMMENCE UNTIL THE BACTERIOLOGIC TESTS INDICATE THE WATER IS FREE FROM CONTAMINATION.

WEBER COUNTY

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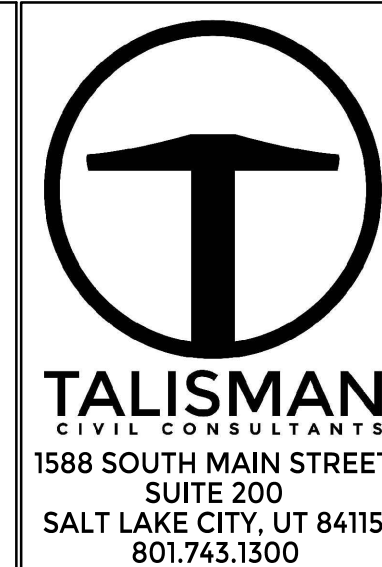
ROCKY MOUNTAIN POWER

1438 WEST 2550 SOUTH
OGDEN, UT 84401
(801) 629-4429

POWDER MOUNTAIN WATER & SEWER DISTRICT

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EDEN, UT 84310
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PRELIMINARY
NOT FOR CONSTRUCTION



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Table with columns: NO., DATE, BY, REVISIONS

DATE: 06.16.2023

TCC JOB NUMBER: 22-126

POWDER POINT
OVERLOOK POINT, POWDER MOUNTAIN, UTAH
GENERAL NOTES

SHEET NUMBER
C001

2 OF 16



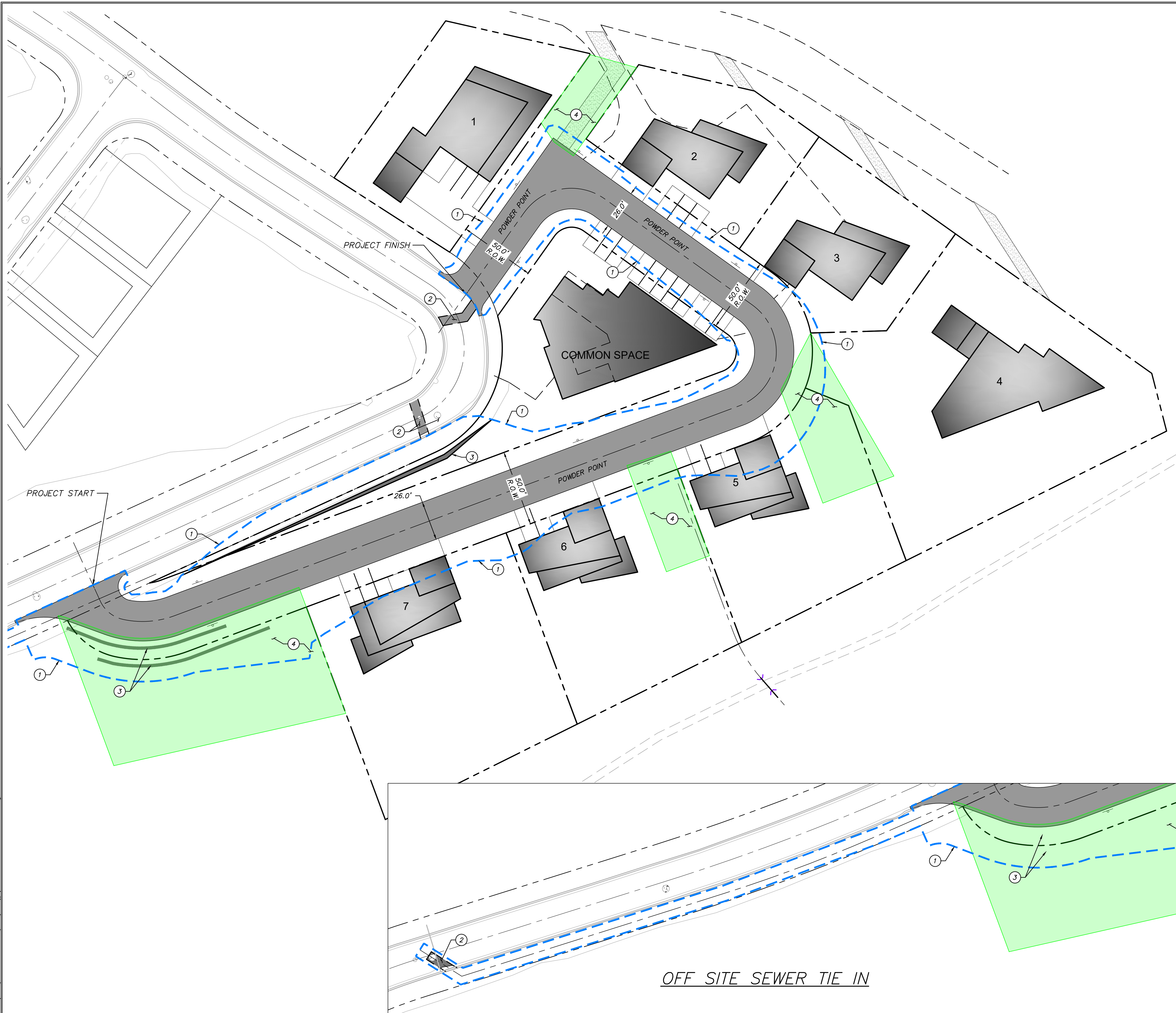






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**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



- SITE GENERAL NOTES:**
1. SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
  2. ALL SIGNS AND MARKINGS SHALL CONFORM TO THE LATEST EDITION ON THE M.U.T.C.D.
  3. NO PHASING ANTICIPATED ON THIS PROJECT.
  4. BUILDING FOOTPRINTS ARE SHOWN FOR REFERENCE ONLY.
- SITE SCOPE OF WORK:**  
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- 1 APPROXIMATE LIMITS OF DISTURBANCE.
  - 2 SAWCUT AND REMOVE ASPHALT TO INSTALL UTILITIES, REPLACE ASPHALT PER PAVEMENT SECTION A, SEE SHEET C002
  - 3 INSTALL ROCKERY STABILIZED SLOPE PER DETAIL A. SEE SHEET C702.
  - 4 SNOW STORAGE AREA.

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**POWDER POINT**  
**OVERLOOK POINT, POWDER MOUNTAIN, UTAH**  
**DEMOLITION AND SITE PLAN**

TCC JOB NUMBER: 22-126      DATE: 06.16.2023

SCALE  
HORIZONTAL: 1" = 30'  
0 10' 15' 30' 45'

SHEET NUMBER  
**C200**  
4 OF 16

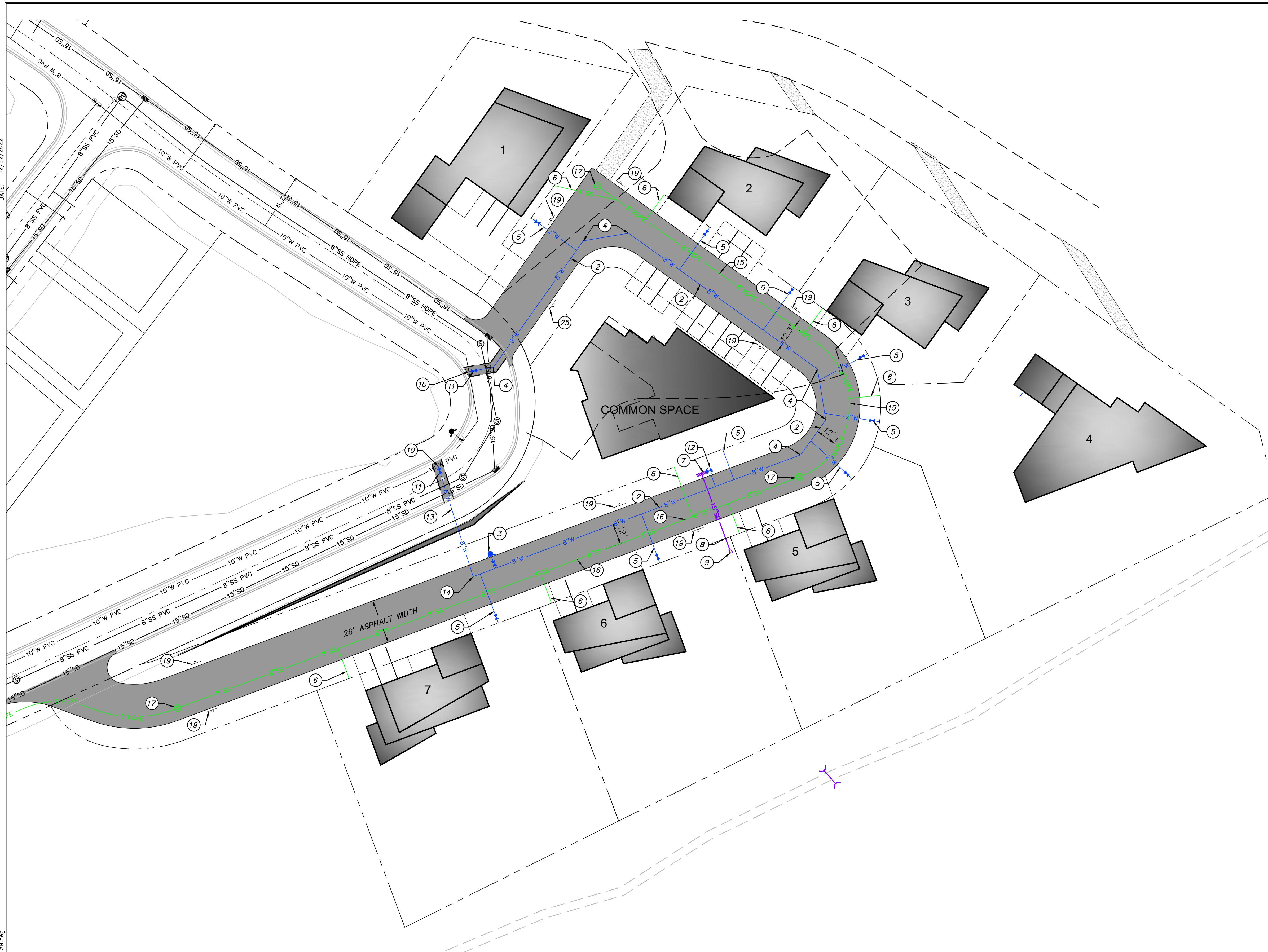






DATE: 12/22/2022

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**UTILITY GENERAL NOTES:**

1. SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
3. CONTRACTOR IS TO VERIFY CONNECTION POINTS WITH EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
4. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

**UTILITY KEYNOTES:**

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

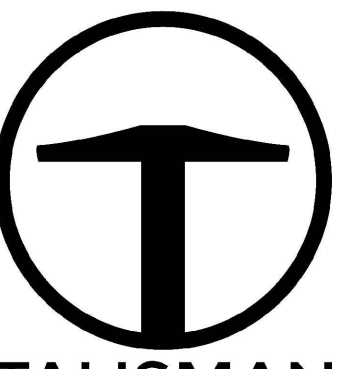
2. INSTALL 8" PVC C-900 WATER LINE PER PMWSID DETAIL DW-1 AND DW-2. SEE SHEET 700. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
3. INSTALL FIRE HYDRANT PER PMWSID DETAIL DW-3 FIRE. SEE SHEET 700. FIRE HYDRANT SHALL HAVE TALL FLAG FOR DEEP SNOW. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
4. INSTALL 8"Ø 45° BEND WITH THRUST BLOCKING PER PMWSID DETAIL DW-7. SEE SHEET 700.
5. INSTALL 2" SERVICE LATERAL PER PMWSID DETAIL DW-5 TO CURB STOP. SERVICE LATERAL AND METER AFTER CURB STOP INSTALLED BY OTHERS. SEE SHEET 700. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
6. INSTALL 4" SEWER LATERAL PER PMWSID DETAIL SS-3 SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
7. INSTALL DOUBLE GRATE CATCH BASIN PER APWA PLAN 315.2. SEE SHEET 700.
8. INSTALL 15" HDPE STORM DRAIN PIPE PER APWA PLAN 381 AND 382. SEE SHEET 701.
9. INSTALL PIPE OUTFALL PER APWA PLAN 323.1. SEE SHEET 701.
10. INSTALL 8" TEE WITH THRUST BLOCKING PER PMWSID DETAIL DW-7. SEE SHEET C700.
11. INSTALL 8" GATE VALVE.
12. INSTALL BLOW OFF VALVE.
13. INSTALL 8" DR11 HDPE PIPE FROM VALVE TO 90° BEND PER PMWSID DETAILS DW-1, DW-2, AND DETAIL A, SEE SHEETS C700 & C703. ENSURE A MINIMUM OF 18" CLEARANCE WHEN CROSSING EXISTING UTILITIES.
14. INSTALL 8" 90° BEND WITH THRUST BLOCKING PER PMWSID DETAIL DW-7. SEE SHEET C700.
15. INSTALL 8" SDR-17 HDPE FUSION WELDED SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
16. INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703.
17. INSTALL 4' SANITARY SEWER MANHOLE PER PMWSID DETAIL SS-2, SEE SHEET C702.
19. INSTALL "NO PARKING" SIGN.

- FLARED INLET/OUTLET
- CATCH BASIN

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT NOTES:**

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
2. ALL CONSTRUCTION SHALL COMPLY TO THE STANDARD TECHNICAL SPECIFICATIONS AND DRAWINGS FOR THE POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT OF UTAH.
3. ALL WATER MAINS AND SERVICE LATERALS TO BE BURIED AT 9' MINIMUM DEPTH.

**PRELIMINARY  
NOT FOR CONSTRUCTION**

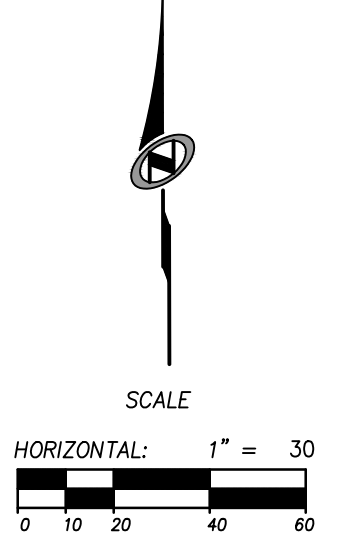


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SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
UTILITY PLAN**

DATE: 06.16.2023

TCC JOB NUMBER: 22-126



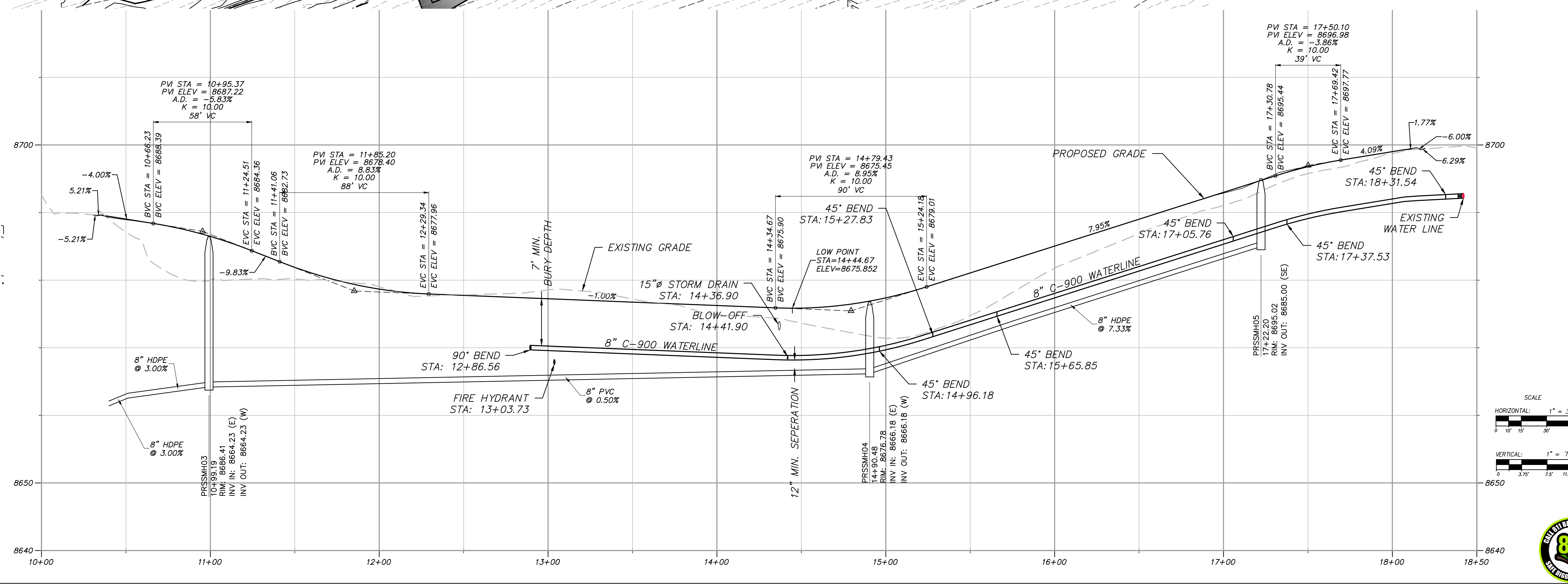
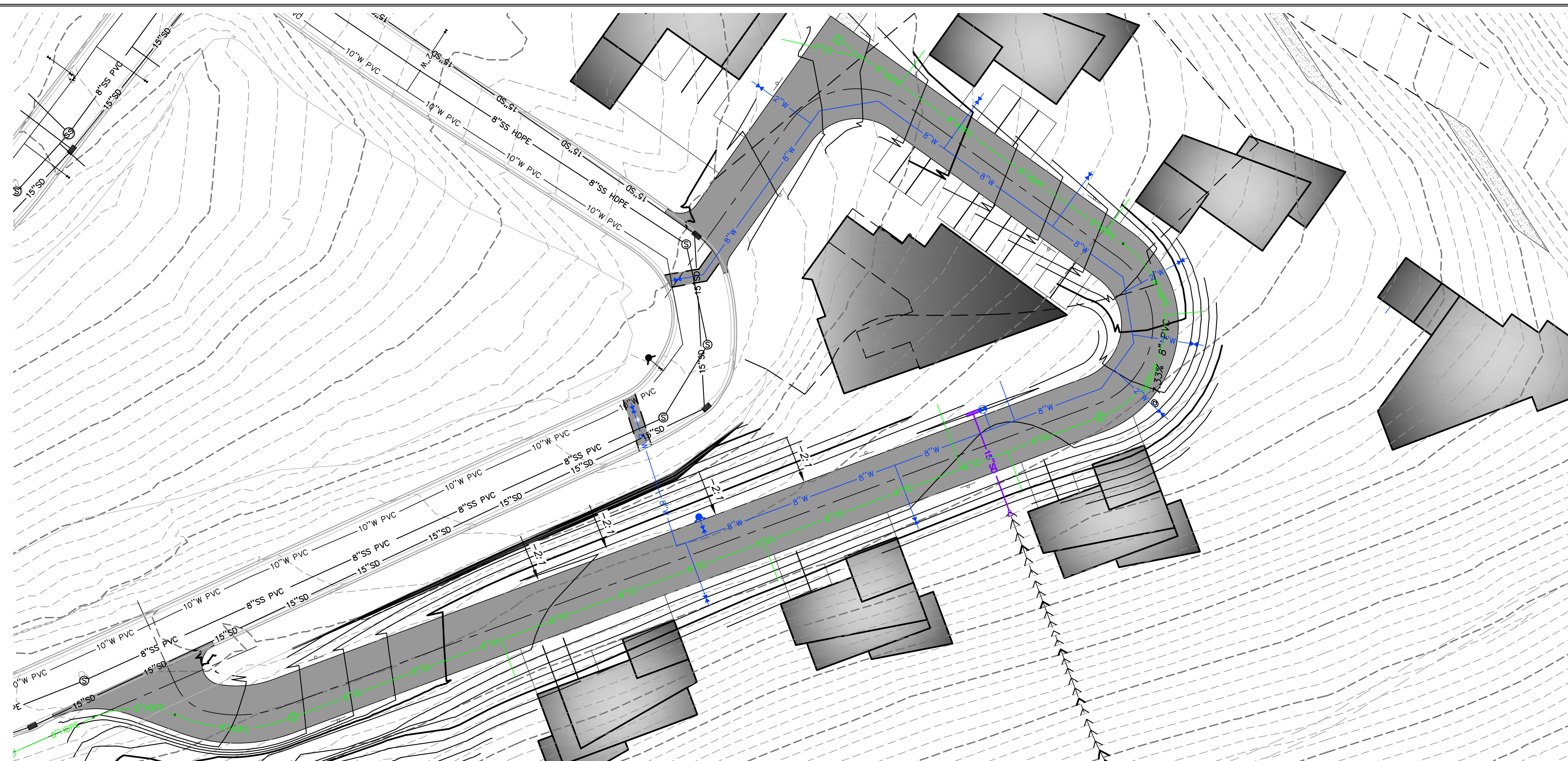
SHEET NUMBER  
**C400**  
6 OF 16





DATE: 12/22/2022

PATH: m:\B0793\Cadd\Up\_500 PLAN & PROFILES.dwg



- UTILITY GENERAL NOTES:**
- SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
  - EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
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  - ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.

- POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
  - ALL CONSTRUCTION SHALL COMPLY TO THE STANDARD TECHNICAL SPECIFICATIONS AND DRAWINGS FOR THE POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT OF UTAH.
  - ALL WATER MAINS AND SERVICE LATERALS TO BE BURIED AT 9' MINIMUM DEPTH.

**PRELIMINARY**  
NOT FOR CONSTRUCTION



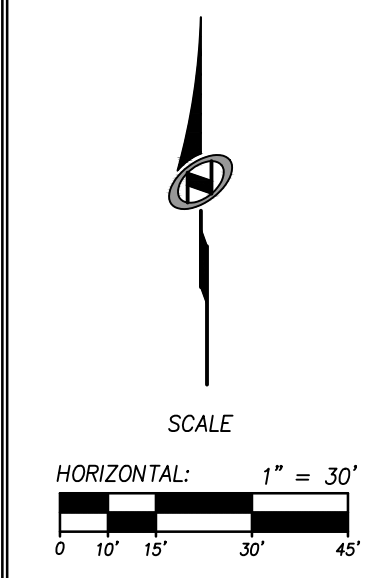
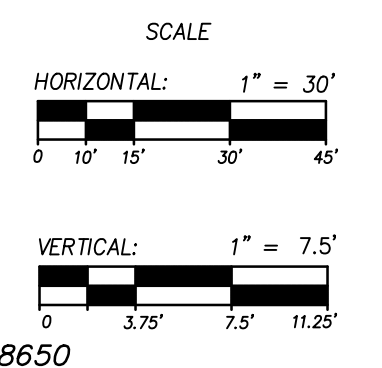
**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

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**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
PLAN AND PROFILE**

DATE: 06.16.2023

TCC JOB NUMBER: 22-126

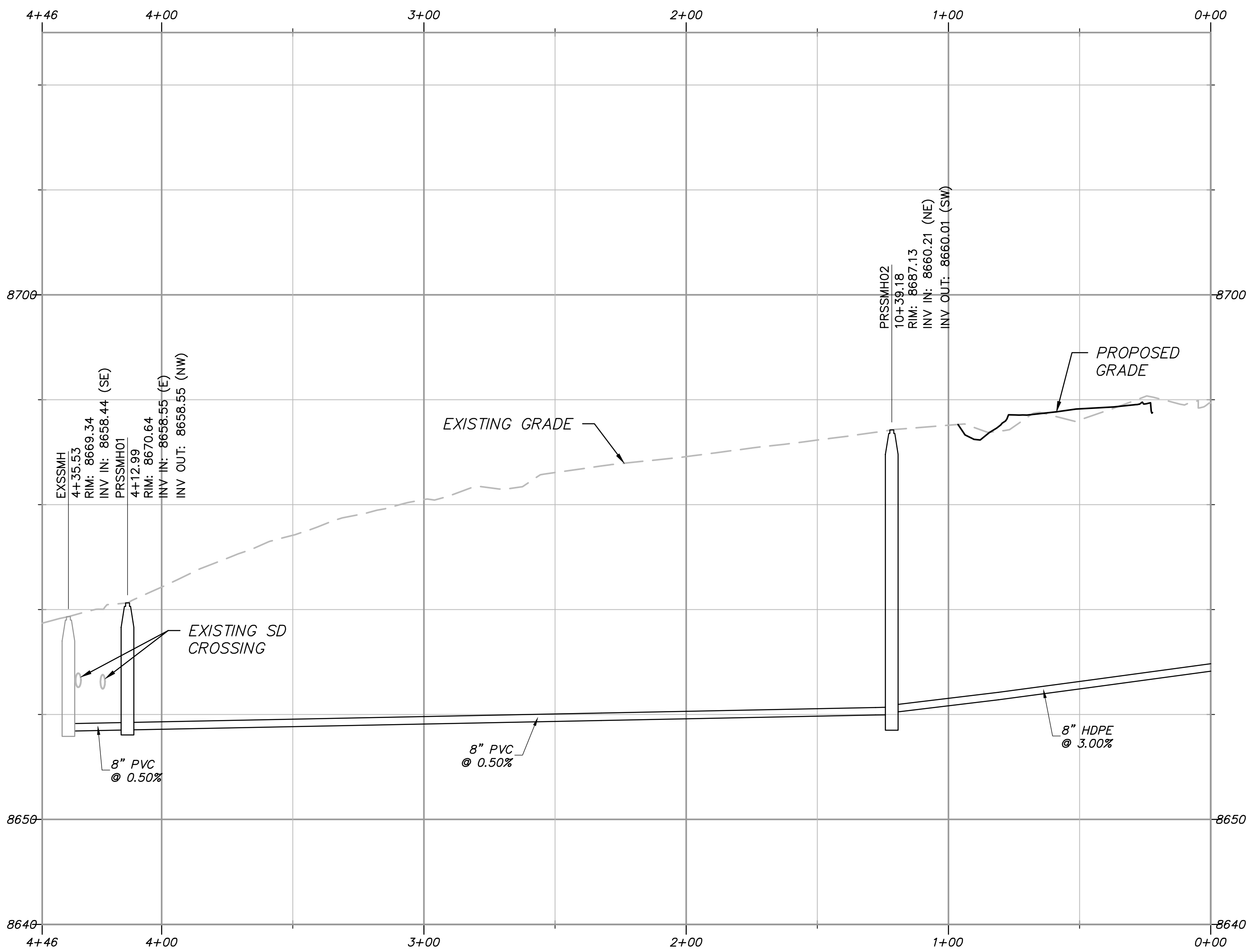
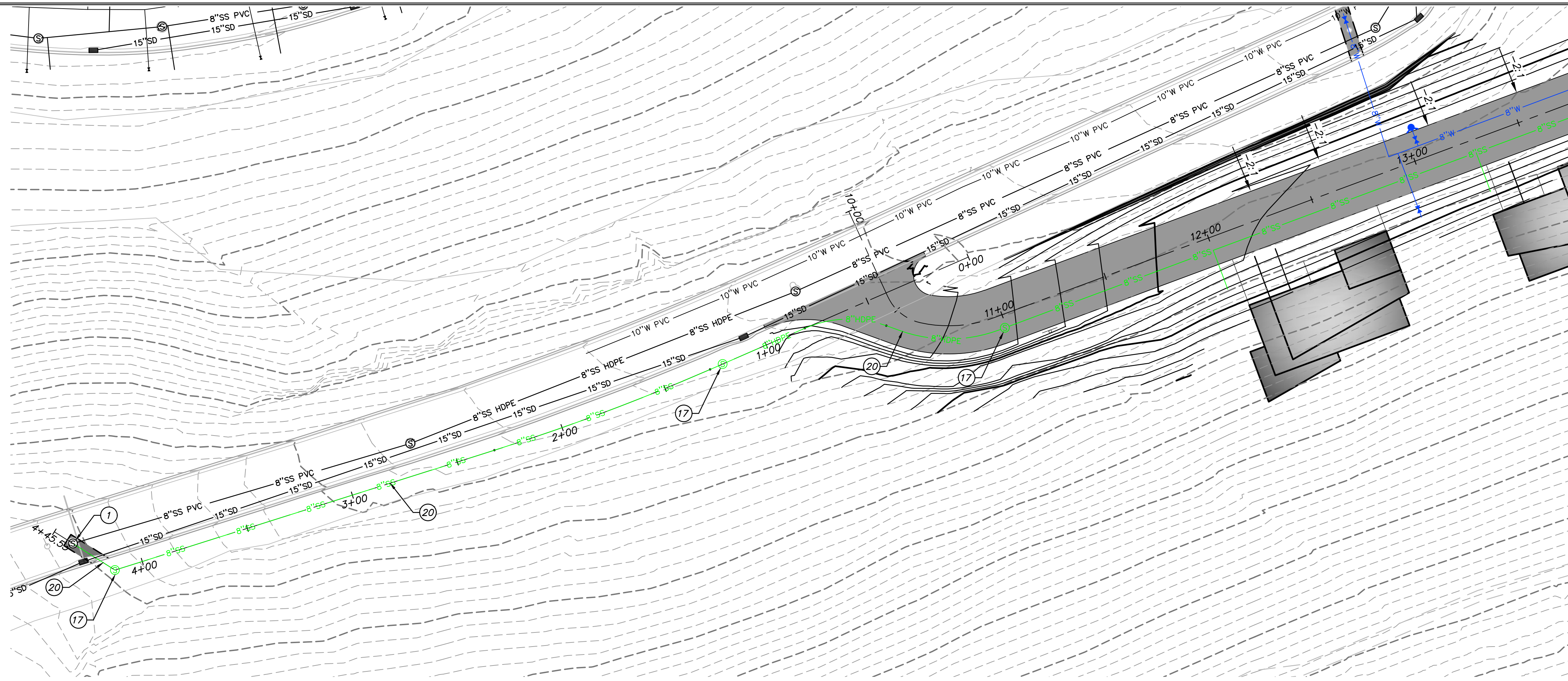


SHEET NUMBER  
**C500**  
7 OF 16



DATE: 12/22/2022

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**UTILITY GENERAL NOTES:**

1. SEE GRADING DRAWINGS FOR ADDITIONAL DESIGN INFORMATION.
2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
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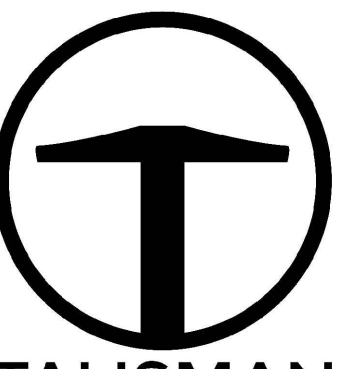
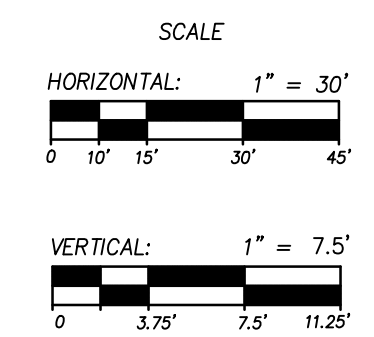
**UTILITY KEYNOTES:**

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ① CONNECT TO EXISTING SANITARY SEWER MANHOLE AND GROUT IN PLACE.
- ⑱ INSTALL 4' SANITARY SEWER MANHOLE PER PMWSID DETAIL SS-2, SEE SHEET C702.
- ⑳ INSTALL 8" SDR-17 HDPE FUSION WELDED SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. NO INSULATION IS NECESSARY FOR THIS PORTION OF SEWER PIPE.
- ㉑ INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER PMWSID DETAIL SS-1, SEE SHEET C702. INSULATE PIPE PER DETAIL A, SEE SHEET C703. NO INSULATION IS NECESSARY FOR THIS PORTION OF SEWER PIPE.

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT NOTES:**

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND INVERT ELEVATIONS OF EXISTING MANHOLES AND OTHER UTILITIES BEFORE STAKING OR CONSTRUCTING ANY NEW SEWER LINES.
2. ALL CONSTRUCTION SHALL COMPLY TO THE STANDARD TECHNICAL SPECIFICATIONS AND DRAWINGS FOR THE POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT OF UTAH.
3. ALL WATER MAINS AND SERVICE LATERALS TO BE BURIED AT 9' MINIMUM DEPTH.



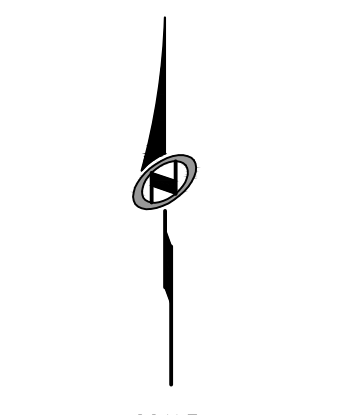
**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

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**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
OFFSITE SEWER LINE PLAN AND PROFILE**

DATE: 06.16.2023

TCC JOB NUMBER: 22-126

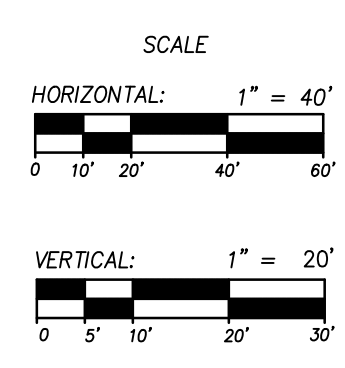
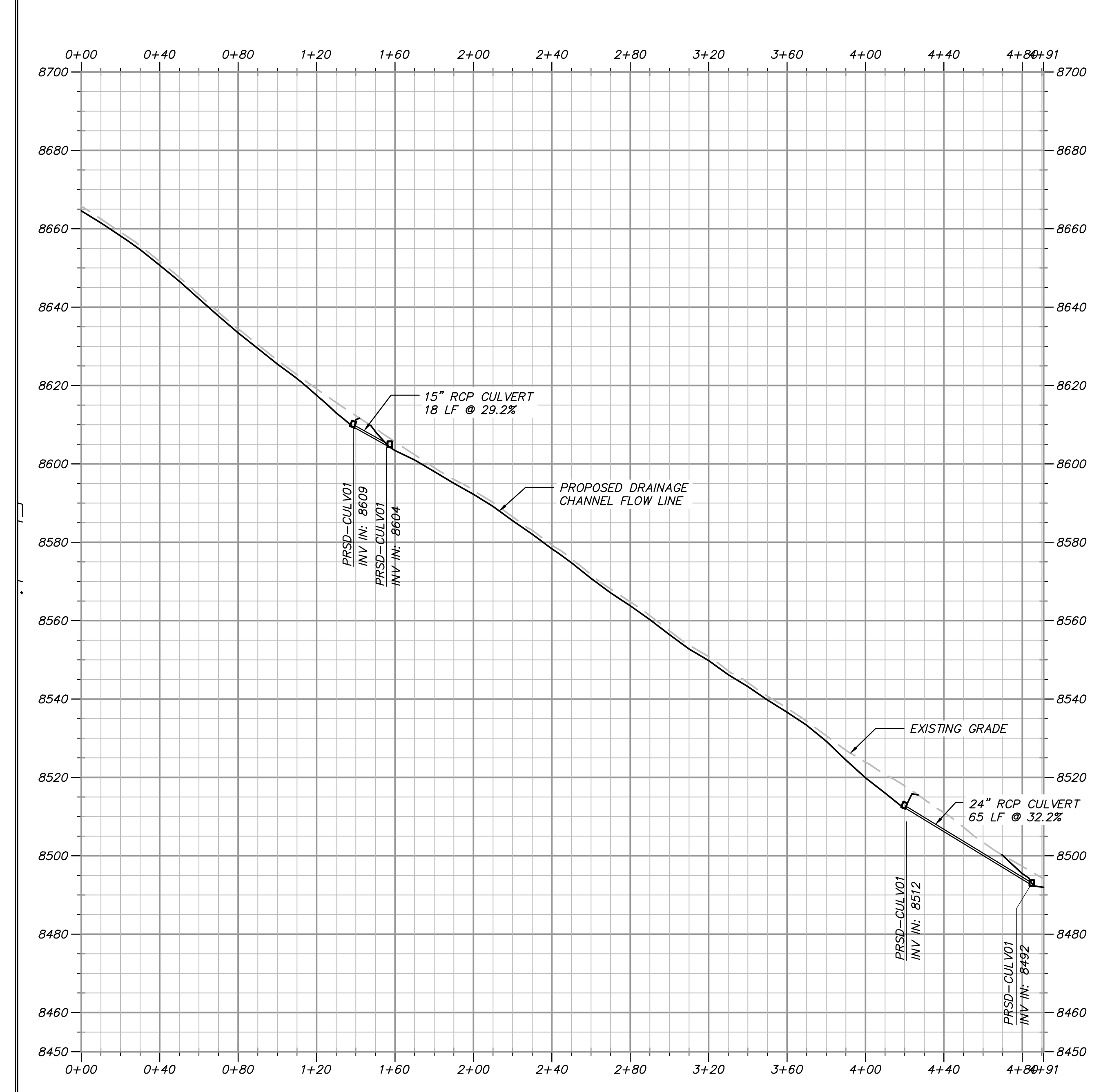


SHEET NUMBER  
**C501**

7 OF 16







- GRADING GENERAL NOTES:**
- SEE SHEET C500 FOR PLAN AND PROFILE OF ROAD.
  - SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
  - CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.
  - THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT.
  - EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
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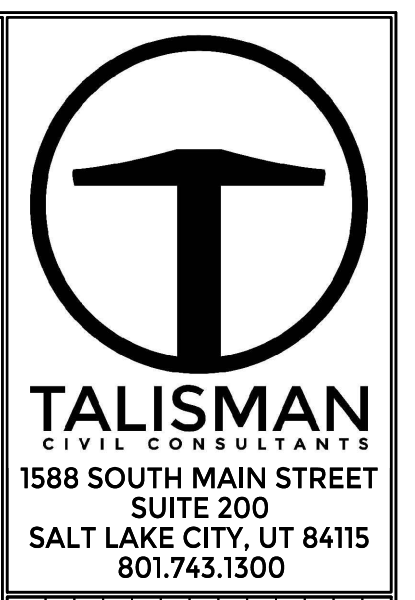
**ABBREVIATIONS:**

|     |                          |
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| BS  | BOTTOM OF STAIRS         |
| BW  | BOTTOM OF WALL           |
| EX  | EXISTING GRADE           |
| EP  | EDGE OF PAVEMENT         |
| FEE | FINISHED FLOOR ELEVATION |
| FG  | FINISHED GRADE           |
| GB  | GRADE BREAK              |
| MA  | MATCH                    |
| SW  | EDGE OF SIDEWALK         |
| TBC | TOP BACK OF CURB         |
| TOA | TOP OF ASPHALT           |
| TS  | TOP OF STAIRS            |
| TW  | TOP OF WALL              |

**LEGEND:**

|      |                             |
|------|-----------------------------|
| XXXX | EXISTING ELEVATION CONTOURS |
| XXXX | EXISTING GRADE              |
| XXXX | EDGE OF PAVEMENT            |
| XXXX | FINISHED GRADE              |
| XXXX | PROPOSED ELEVATION CONTOURS |

**PRELIMINARY  
NOT FOR CONSTRUCTION**



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**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
DRAINAGE CHANNEL PLAN & PROFILES**

TCC JOB NUMBER: 22-126 DATE: 06.16.2023

SCALE

HORIZONTAL: 1" = 30'

VERTICAL: 1" = 20'

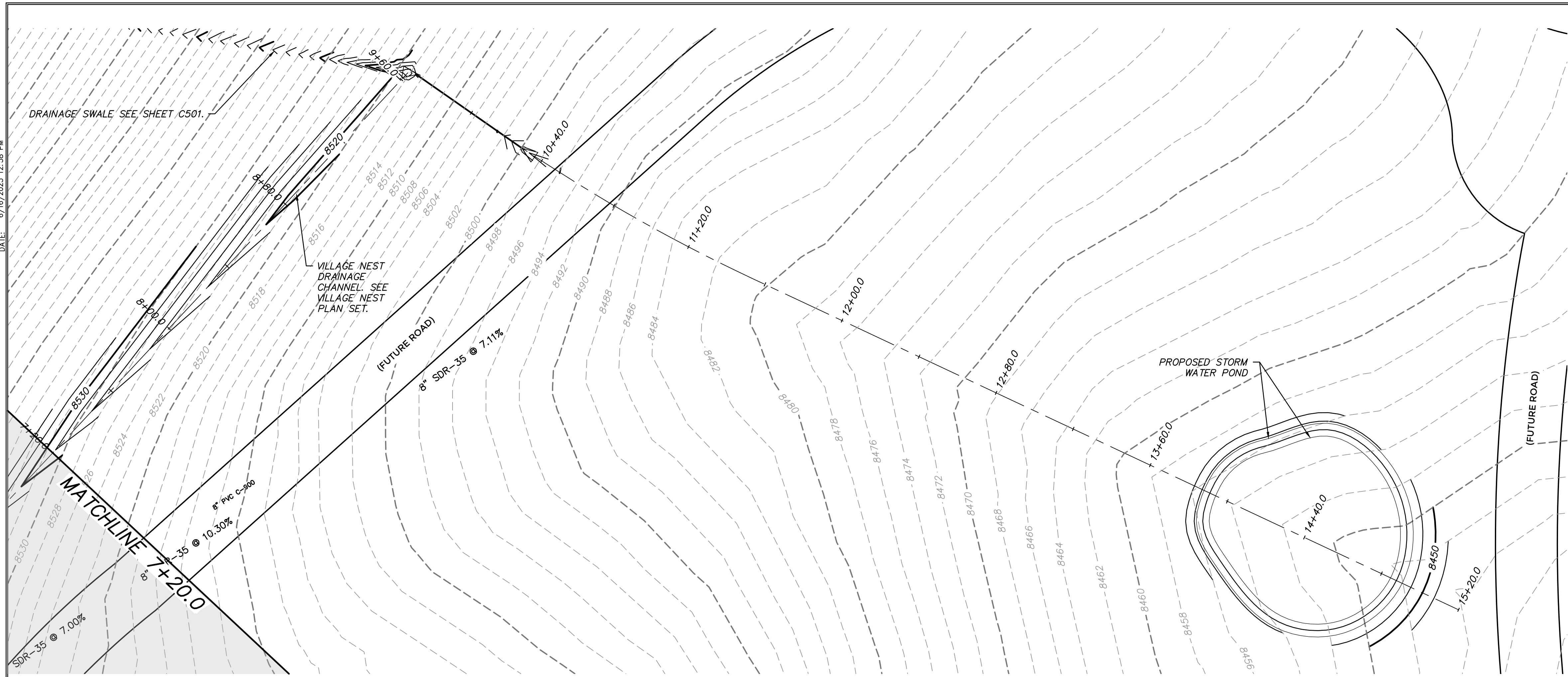
SHEET NUMBER  
**C502**  
8 OF 16





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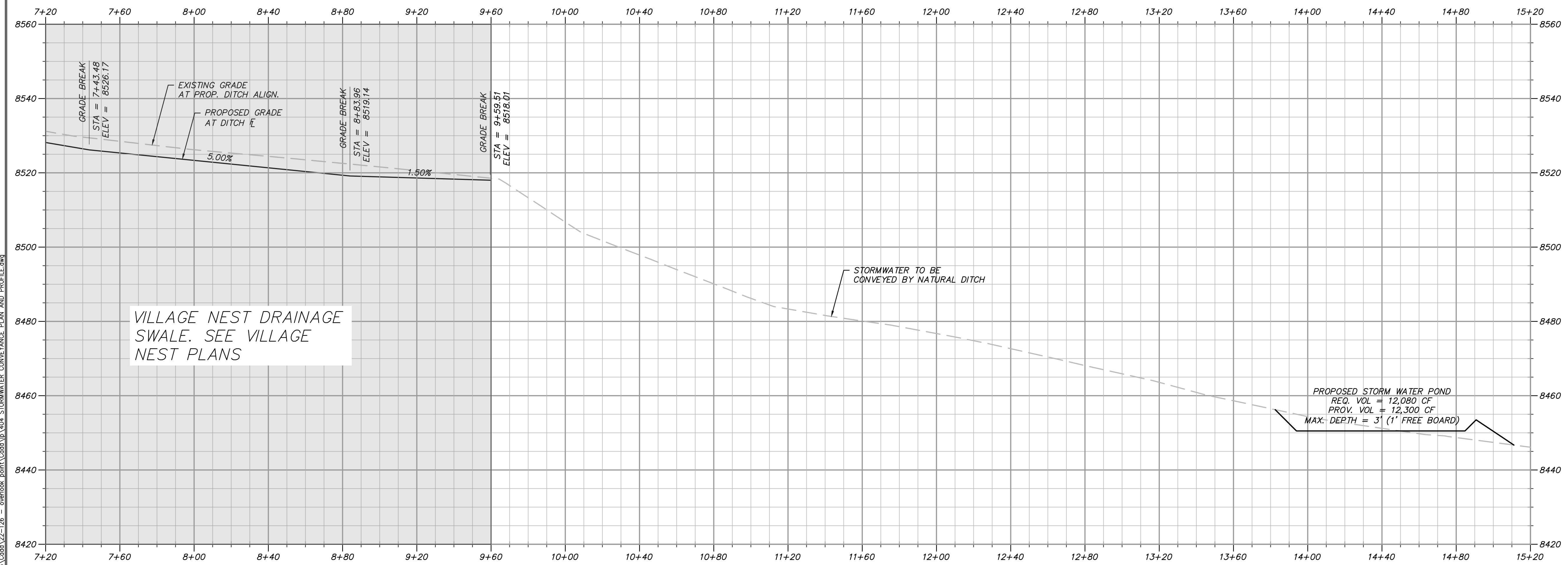
**GRADING GENERAL NOTES:**

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED GEOTECHNICAL ENGINEER VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SOIL CONDITIONS.
3. THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL AND DUST SUPPRESSION FOR CONSTRUCTION OF THIS PROJECT.
4. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.
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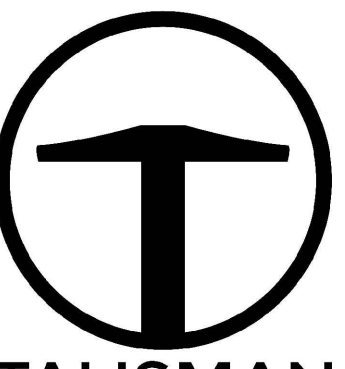
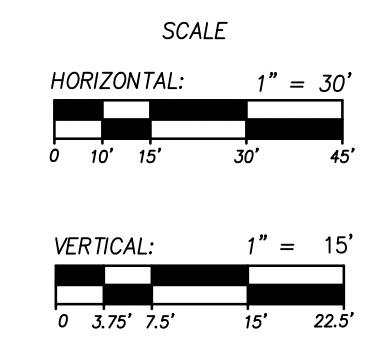
- XXXX - - - - - EXISTING ELEVATION CONTOURS
- XXXX - - - - - PROPOSED ELEVATION CONTOURS

**STORMWATER CONVEYANCE DITCH AND POND**

NOTE: FOR REFERENCE ONLY, TO BE BUILT AS PART OF VILLAGE NEST IMPROVEMENT PLANS.



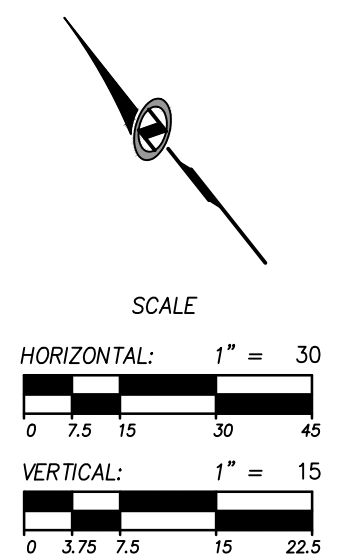
**PROFILE VIEW**



**TALISMAN**  
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801.743.1300

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**POWDER POINT**  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
STORMWATER CONVEYANCE PLAN AND PROFILE  
TCC JOB NUMBER: 22-126  
DATE: 06.16.2023

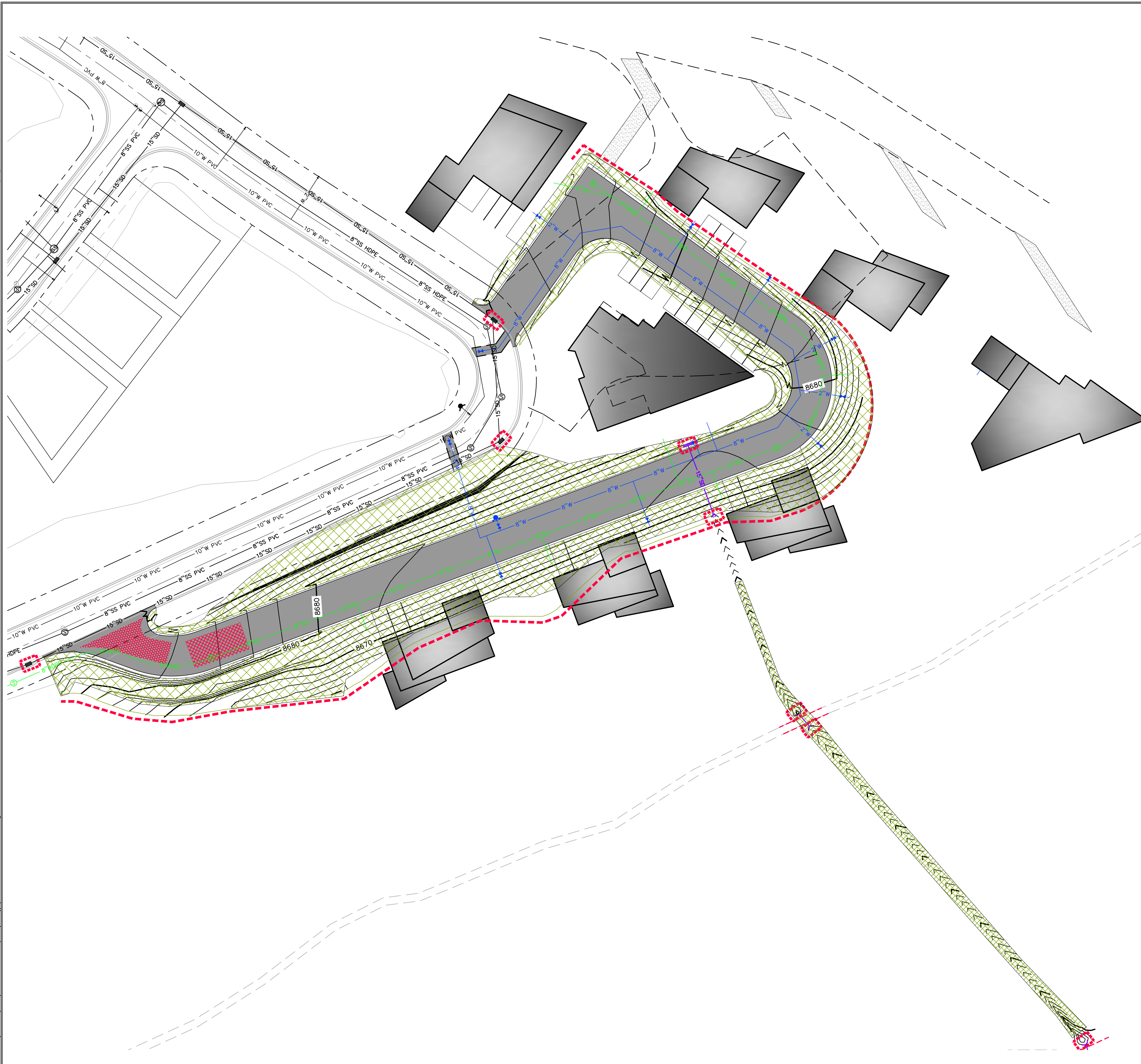


SHEET NUMBER  
**C503**  
9 OF 16



DATE: 12/22/2022

PATH: m:\s\160793\cadd\22-126 - ewerick.meh\cadd\up\600 EROSION CONTROL PLAN.dwg



**SCOPE OF WORK:**

- ① INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
- ② INSTALL EARTH BERM ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.






**EXPOSED SLOPES:**

ANY DISTURBED AREAS AND/OR EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED. USE THE FOLLOWING SEED MIXTURE.
  - i. MEADOW BROME (RIGOR) 14 lb/AC
  - ii. ORCHARD GRASS 10 lb/AC
  - iii. ALFALFA (ADAK) 4 lb/AC
- B) TRACKING STRAW PERPENDICULAR TO SLOPES
- C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

UPON COMPLETION OF PROJECT ALL DISTURBED AREAS MUST BE RE-SEEDED PER METHOD A ABOVE.

**LEGEND:**

-  INSTALL EARTH BERM
-  INLET PROTECTION
-  HATCHING INDICATES SLOPES 3:1 OR STEEPER TO BE SEEDED AND REQUIRING EROSION CONTROL BLANKET.
-  INSTALL 15' X 30' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.
-  STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.

**PRELIMINARY  
NOT FOR CONSTRUCTION**



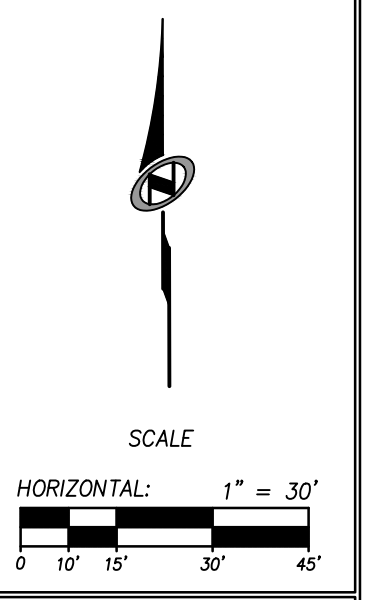
**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

| NO. | BY | DATE | REVISIONS |
|-----|----|------|-----------|
|     |    |      |           |
|     |    |      |           |
|     |    |      |           |

**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
EROSION CONTROL PLAN**

DATE: 06.16.2023

TCC JOB NUMBER: 22-126



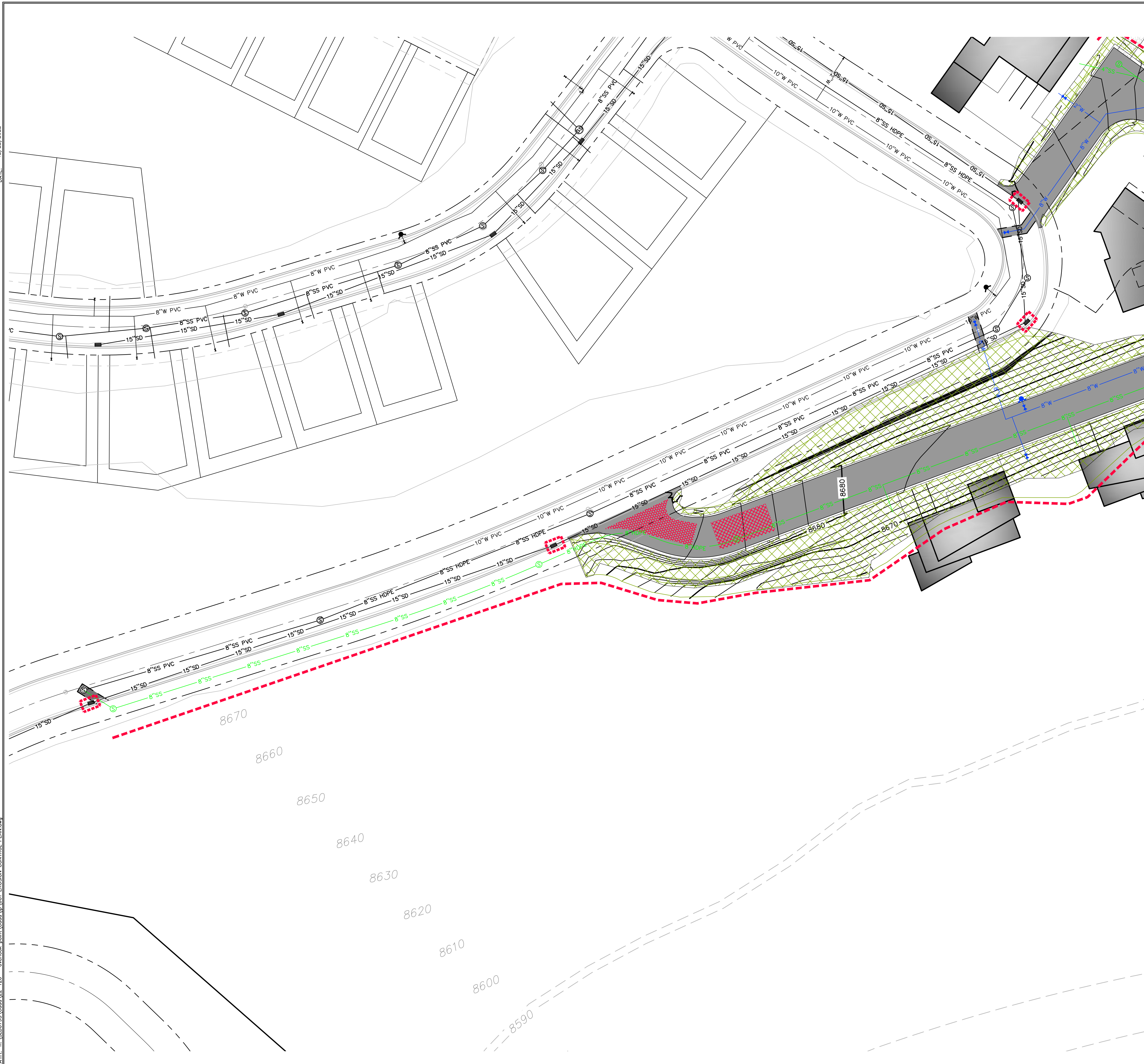
SHEET NUMBER  
**C600**





DATE: 12/22/2022

PATH: m:\s\160793\cadd\22-126 - ewerick.meh\cadd\up\601. EROSION CONTROL PLAN.dwg



**SCOPE OF WORK:**

- ① INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
- ② INSTALL EARTH BERM ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.

**EXPOSED SLOPES:**

ANY DISTURBED AREAS AND/OR EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

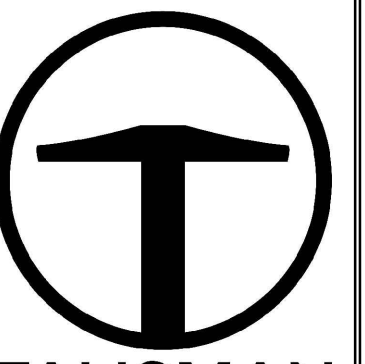
- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED. USE THE FOLLOWING SEED MIXTURE.
  - i. MEADOW BROME (RIGOR) 14 lb/AC
  - ii. ORCHARD GRASS 10 lb/AC
  - iii. ALFALFA (ADAK) 4 lb/AC
- B) TRACKING STRAW PERPENDICULAR TO SLOPES
- C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

UPON COMPLETION OF PROJECT ALL DISTURBED AREAS MUST BE RE-SEEDED PER METHOD A ABOVE.

**LEGEND:**

- INSTALL EARTH BERM
- INLET PROTECTION
- HATCHING INDICATES SLOPES 3:1 OR STEEPER TO BE SEEDED AND REQUIRING EROSION CONTROL BLANKET.
- INSTALL 15' X 30' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.
- STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.

**PRELIMINARY  
NOT FOR CONSTRUCTION**

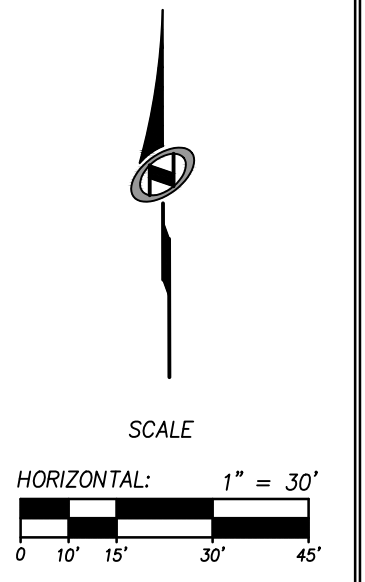


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1588 SOUTH MAIN STREET  
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SALT LAKE CITY, UT 84115  
801.743.1300

**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
OFFSITE EROSION CONTROL PLAN**

DATE: 06.16.2023

TCC JOB NUMBER: 22-126

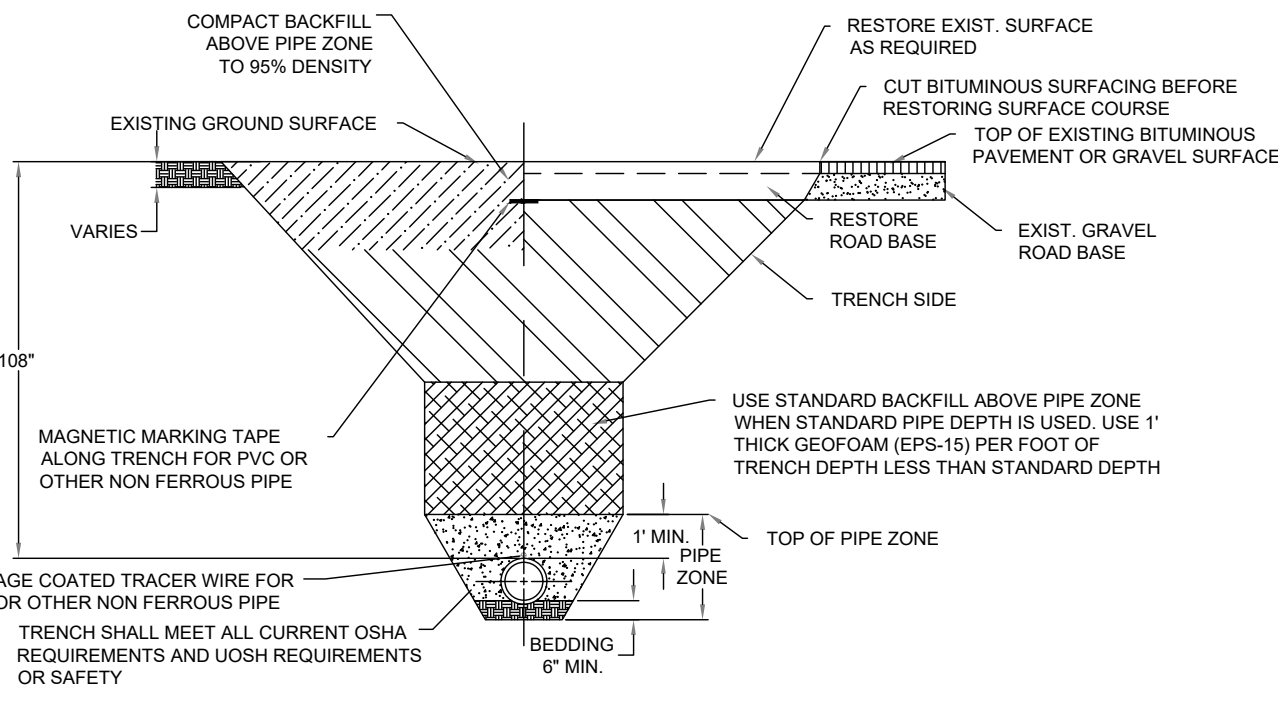


SHEET NUMBER  
**C601**

11 OF 16







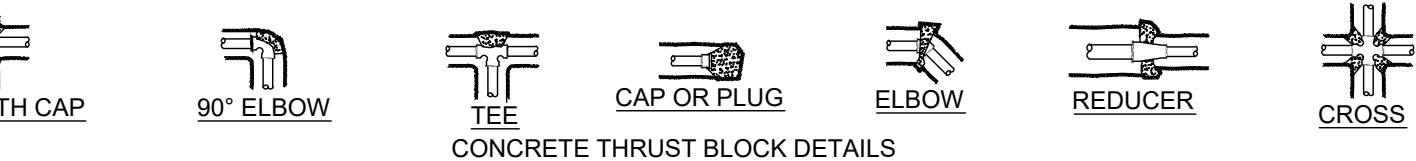
**SAFE BEARING LOADS**

| SOIL TYPE                              | SAFE BEARING LOAD (lb/ft <sup>2</sup> ) |
|--|---|
| SAND                                   | 1000                                    |
| SAND & GRAVEL                          | 1500                                    |
| SAND & GRAVEL CEMENTED WITH CLAY SHALE | 2000                                    |
|  | 5000                                    |

**THRUST ON FITTINGS**  
POUNDS @ 1" POUND PER SQUARE INCH OF WATER PRESSURE\*

| PIPE SIZE | TEES  | 90° BENDS | 45° BENDS | 22.5° BENDS |
|-----------|-------|-----------|-----------|-------------|
| 4"        | 18.5  | 26.1      | 14.2      | 7.2         |
| 6"        | 38    | 53.7      | 29.1      | 14.7        |
| 8"        | 65.8  | 93        | 50.4      | 25.5        |
| 10"       | 107.5 | 152       | 82.4      | 41.7        |
| 12"       | 153.1 | 216.4     | 117.2     | 59.4        |
| 14"       | 183.8 | 260.0     | 141.0     | 71.5        |
| 16"       | 237.8 | 336.3     | 182.8     | 92.7        |
| 18"       | 298.6 | 422.3     | 229.7     | 116.5       |

\*MULTIPLY THRUST BY MAXIMUM WATER PRESSURE



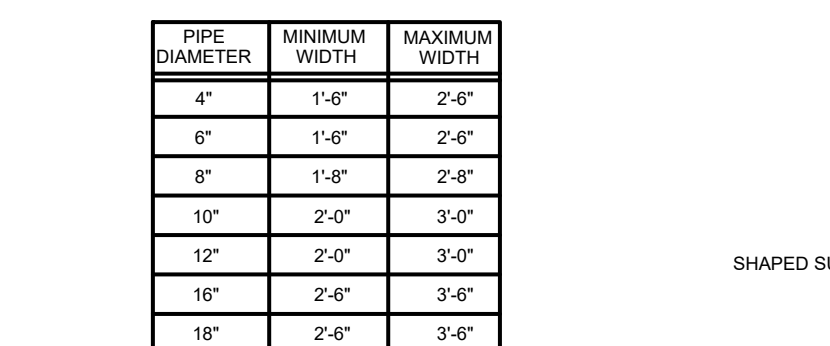
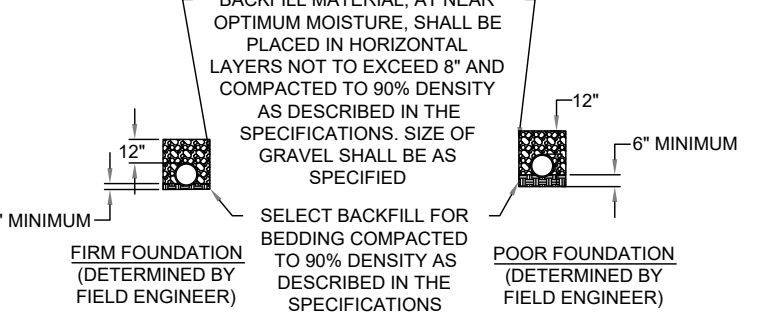
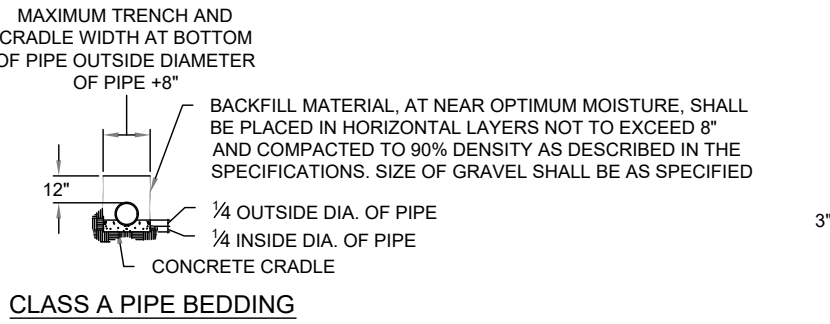
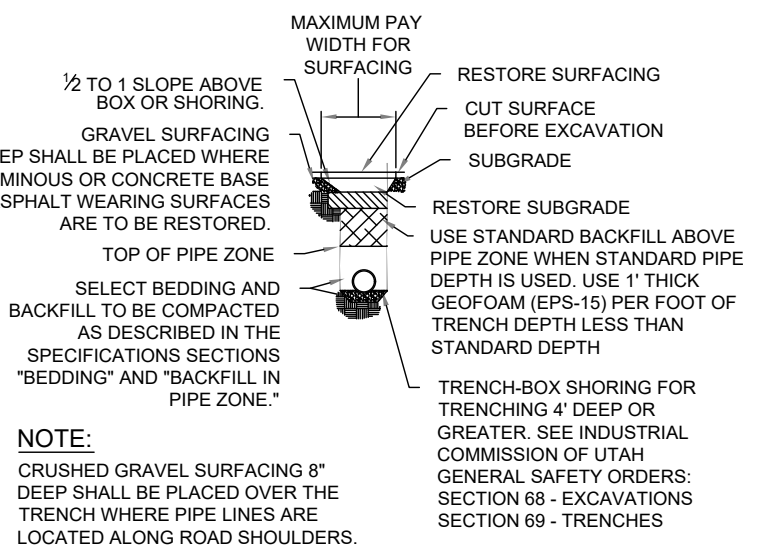
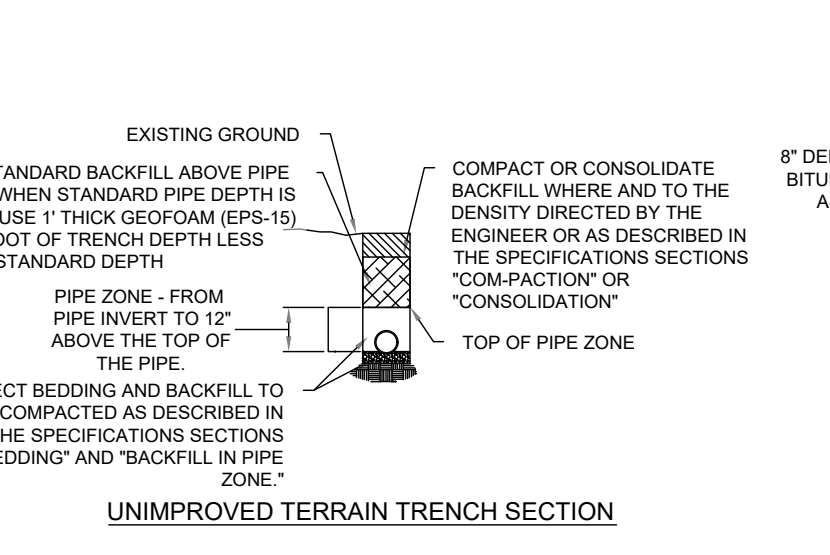
- NOTES:**
1. WATER LINES 12 INCHES AND LARGER SHALL BE DUCTILE IRON CLASS-51.
  2. WATER LINES 10 INCHES AND SMALLER SHALL BE PVC AWWA C900 CLASS 200.
  3. VALVES 12 INCHES AND LARGER SHALL BE BUTTERFLY VALVES.
  4. WHENEVER POSSIBLE "HOT TAP" CONNECTIONS REQUIRED. HOT TAP VALVE TO BE SUPPORTED DURING CONNECTION. CONTRACTOR TO NOTIFY DISTRICT 24 HOURS IN ADVANCE OF MAKING CONNECTION.
  5. PIPE ZONE SHALL BE BACKFILLED WITH 3/4" GRAVEL MATERIAL.
  6. TRACING WIRE TO BE BROUGHT OUTSIDE OF BOTTOM PORTION OF VALVE BOX AND INSIDE TOP TO SURFACE.
  7. FURNISH AND INSTALL WLY-WRAP ON DUCTILE IRON PIPE. POLY-WRAP MAY BE DELETED WHERE DIRECTED BY DISTRICT ENGINEER.
  8. WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH, PLACE AND COMPACT SUPPORTED BACKFILL MATERIALS AS REQUIRED AND AS DIRECTED.
  9. SEE DW-2 FOR PIPE BEDDING SPECIFICATIONS
  10. 9'-0" MINIMUM COVER REQUIRED OVER PIPE. COVER REQUIREMENT MAY BE REDUCED PER RECOMMENDATION BY APPROVED GEOTECHNICAL REPORT. IN NO CASE SHALL MINIMUM COVER OVER PIPE BE LESS THAN 7'-0". GEOTECHNICAL REPORT SHALL SPECIFICALLY ADDRESS FROST DEPTH AND PIPE FREEZING POTENTIAL.

**WATERLINE TRENCH DETAIL**

DATE: APRIL 2021  
DRAWING NAME: DW-1  
DRAWN BY: BRJ/M  
CHECKED/ APPROVED:

**GILSON ENGINEERING**  
Consulting Engineers & Surveyors  
12401 SOUTH 450 EAST BUILDING C, UNIT 2, SERRA, UT 84020  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWERMOUNTAIN.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWERMOUNTAIN.COM

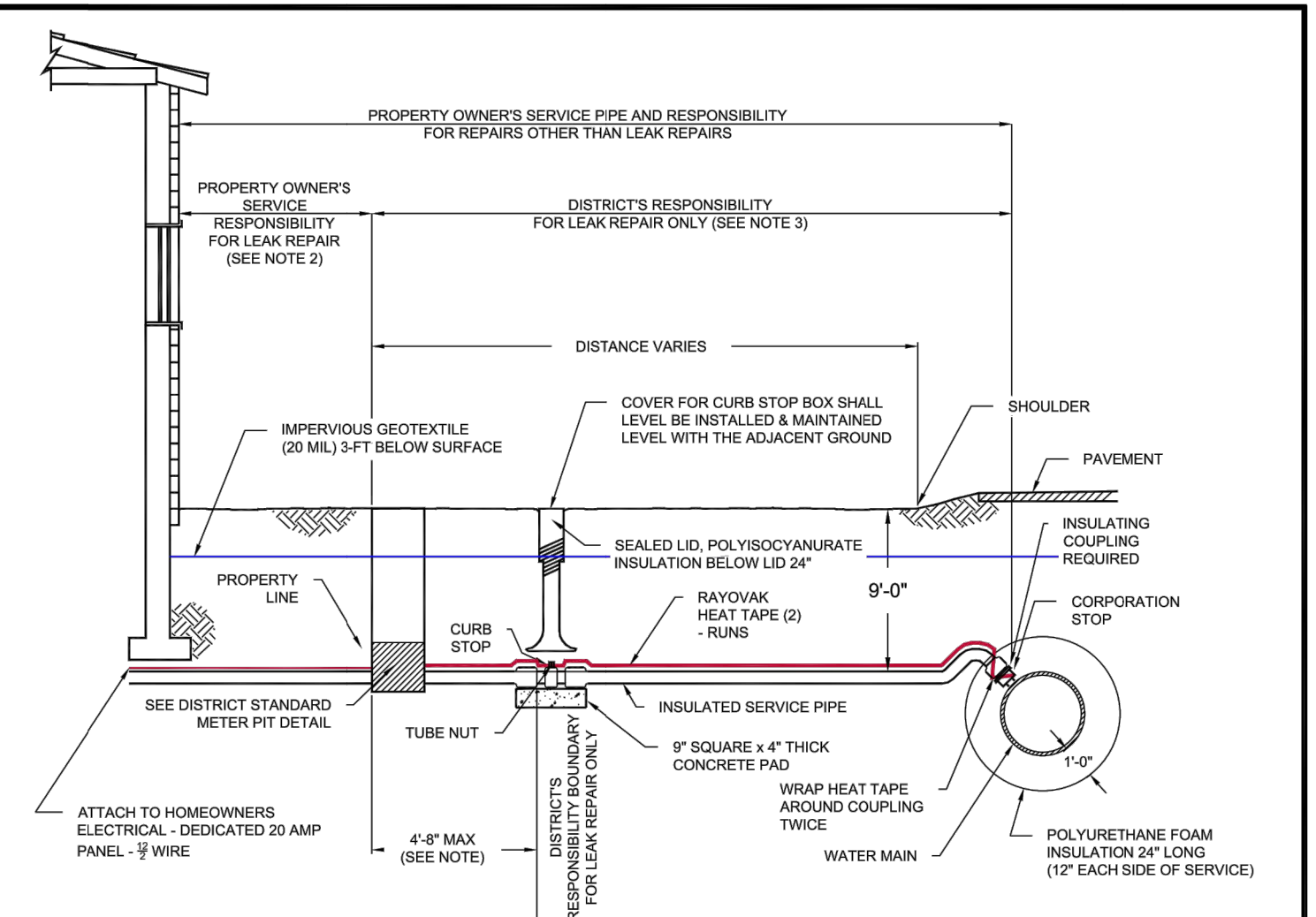


**PIPE BEDDING SPECIFICATIONS**

DATE: APRIL 2021  
DRAWING NAME: DW-2  
DRAWN BY: BRJ/M  
CHECKED/ APPROVED:

**GILSON ENGINEERING**  
Consulting Engineers & Surveyors  
12401 SOUTH 450 EAST BUILDING C, UNIT 2, SERRA, UT 84020  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWERMOUNTAIN.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWERMOUNTAIN.COM



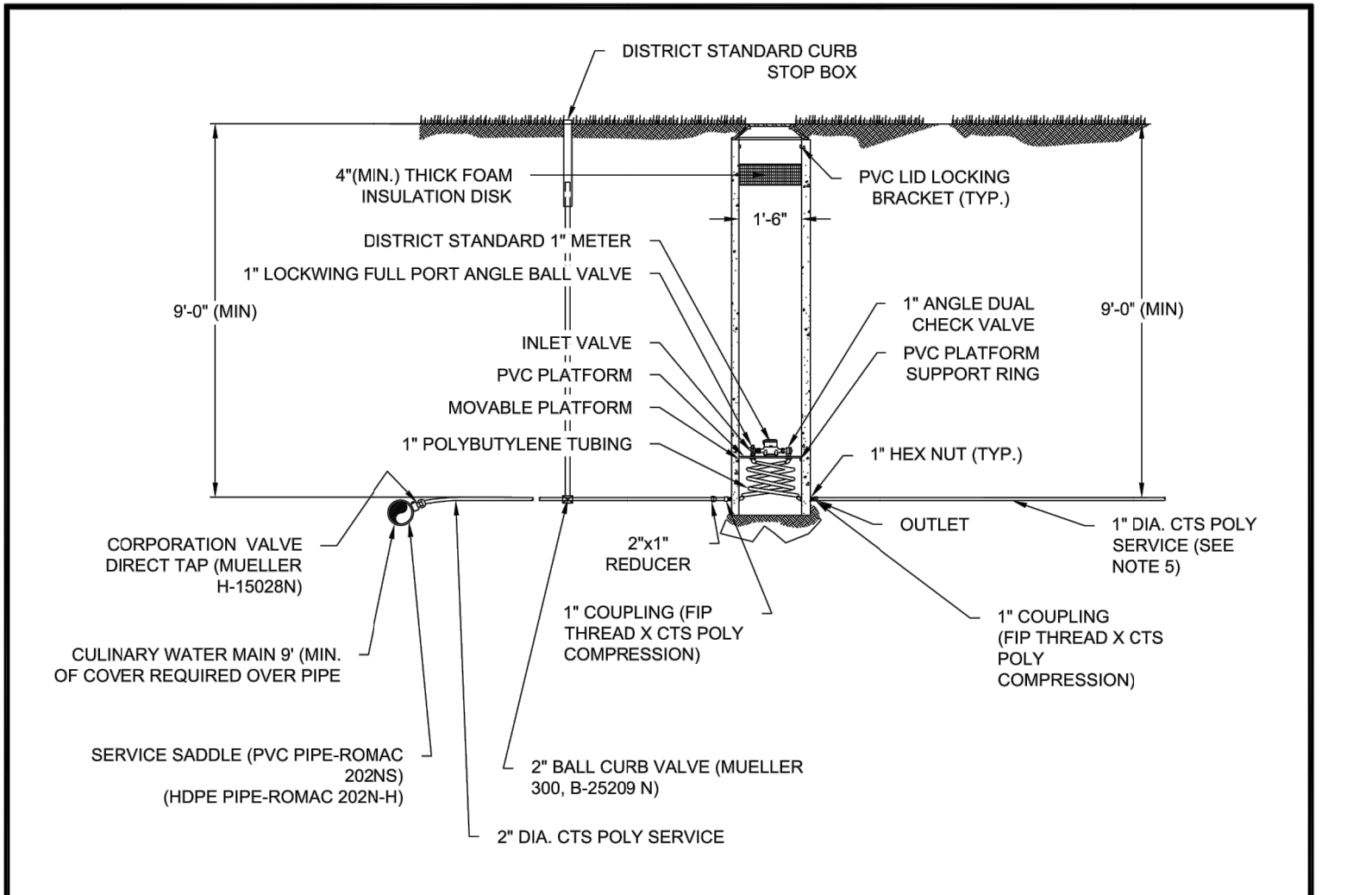
- NOTES:**
1. PLACEMENT OF CURB STOP SHALL BE A MAXIMUM OF 5 FEET OUTSIDE THE PROPERTY LINE INSIDE STREET RIGHT OF WAY.
  2. PROPERTY OWNER'S RESPONSIBILITY FOR LEAK REPAIR SHALL BE UP TO AND INCLUDING THE SERVICE PIPE WHICH THREADS ONTO THE WATER METER. PROPERTY OWNER'S RESPONSIBILITY FOR REPAIRS OTHER THAN LEAKS EXTENDS TO THE CORPORATION STOP.
  3. DISTRICT'S RESPONSIBILITY SHALL BE THE WATER MAIN, THE CORPORATION STOP, CURB STOP, WATER METER, AND WHERE NEEDED, THE DOUBLE STRAP TAPPING SADDLE. THE DISTRICT WILL ONLY REPAIR LEAKS OCCURRING BETWEEN THE CORPORATION STOP AND THE WATER METER.
  4. SEE STANDARD DETAIL WT-1 AND WT-2 FOR WATER TRENCH REQUIREMENTS
  5. NO LATERAL ARE TO BE INSTALLED WITHIN 5' OF BEDROCK
  6. 12" THICK CLAY CUTOFF AT EACH END OF WATER SERVICE INSULATION FROM IMPERVIOUS GEOTEXTILE TO BOTTOM OF TRENCH
  7. INSULATED SERVICE PIPE: SERVICE LINE ENCASED IN 8" SEAMLESS HDPE WITH CLOSED-CELL CROSS - LINKED POLYETHYLENE FOAM AND HEAT TAPE
  8. 9'-0" MINIMUM COVER REQUIRED OVER PIPE. COVER REQUIREMENT MAY BE REDUCED PER RECOMMENDATION BY APPROVED GEOTECHNICAL REPORT. IN NO CASE SHALL MINIMUM COVER OVER PIPE BE LESS THAN 7'-0". GEOTECHNICAL REPORT SHALL SPECIFICALLY ADDRESS FROST DEPTH AND PIPE FREEZING POTENTIAL.

**TYPICAL SMALL DIAMETER WATER SERVICE LINE DETAIL**

DATE: APRIL 2021  
DRAWING NAME: DW-5  
DRAWN BY: BRJ/M  
CHECKED/ APPROVED:

**GILSON ENGINEERING**  
Consulting Engineers & Surveyors  
12401 SOUTH 450 EAST BUILDING C, UNIT 2, SERRA, UT 84020  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWERMOUNTAIN.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWERMOUNTAIN.COM



- NOTES:**
1. METER BOXES SHALL BE 18" DIA. BY 96" DEEP MUELLER-THERMAL-COIL PVC BOXES FOR 1" SINGLE METERS (MUELLER 330CS1896FBSN)
  2. POLYETHYLENE PIPE FOR WATER SERVICES SHALL BE PE 3408 TUBING, SDR-8, COPPER TUBING SIZE AND NSF APPROVED FOR POTABLE WATER.
  3. METER SHALL BE INSTALLED IN HORIZONTAL ALIGNMENT, WITH METER FACING UP, ONLY.
  4. ALL PIPE, FITTING, AND VALVES SHALL COMPLY WITH NSF STANDARD NO. 14 FOR USE WITH POTABLE WATER.
  5. THE CUSTOMER IS RESPONSIBLE FOR PROPERLY SIZING THE SERVICE TO DELIVER FLOWS REQUIRED FOR FIRE SPRINKLER SYSTEMS. THE SERVICE FROM THE METER TO THE BUILDING CAN BE UPIZED FROM 1" DIAMETER IF NECESSARY. CONNECTING FIRE SPRINKLER LINES TO THE 2" SERVICE BEFORE THE METER MAY BE APPROVED BY THE DISTRICT ENGINEER ONLY IF THE REQUIRED FIRE SPRINKLER CANNOT BE DELIVERED THROUGH THE METER.
  6. THE DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE SERVICE FROM THE MAIN TO THE METER BOX, INCLUDING THE SERVICE SADDLE, CORP STOP, CURB STOP BOX, AND METER BOX.
  7. BASED UPON OBSERVATIONS DURING WINTER CONDITIONS, THE DISTRICT HAS DETERMINED THAT 9" (MIN) OF COVER OVER WATER MAINS AND SERVICES IS REQUIRED TO PROTECT AGAINST FREEZING.

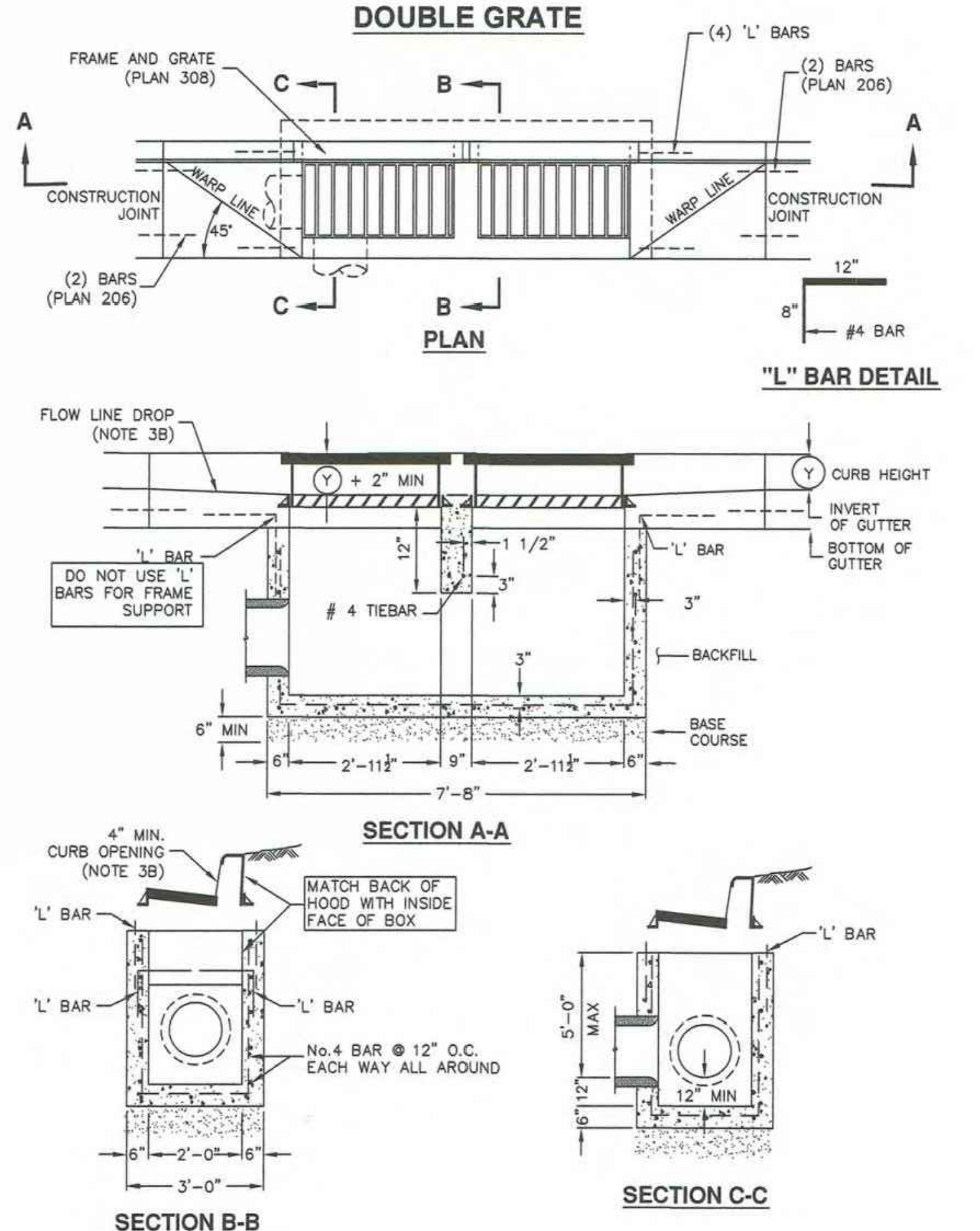
**TYPICAL METER PIT DETAIL**

DATE: APRIL 2021  
DRAWING NAME: DW-7  
DRAWN BY: BRJ/M  
CHECKED/ APPROVED:

**GILSON ENGINEERING**  
Consulting Engineers & Surveyors  
12401 SOUTH 450 EAST BUILDING C, UNIT 2, SERRA, UT 84020  
PHONE: (801) 571-9414 FAX: (801) 571-9449  
WWW.POWERMOUNTAIN.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401  
PHONE: (801) 773-1191  
WWW.POWERMOUNTAIN.COM

**315.2**



**APWA Utah Chapter**

**Catch basin**

Plan **315.2**  
September 2010

**PRELIMINARY NOT FOR CONSTRUCTION**



**TALISMAN CIVIL CONSULTANTS**  
1588 SOUTH MAIN STREET SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

**POWDER POINT OVERLOOK POINT, POWDER MOUNTAIN, UTAH DETAILS**

DATE: 06.16.2023

TCC JOB NUMBER:





DATE: 12/22/2022

Trench backfill

- 1. GENERAL
  - A. The drawing applies to backfilling a trench (and embankment) above the pipe zone.
- 2. PRODUCTS
  - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
  - B. Flowable Fill: APWA Section 31 05 15. Target is 60 psi in 28 days with 90 psi maximum in 28 days. It must flow easily requiring no vibration for consolidation.
- 3. EXECUTION
  - A. Trench Backfill Above the Pipe Zone: Follow requirement indicated in APWA Section 33 05 20 and the following provisions. See Standard Plan 382 for backfilling the pipe zone.
    - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
    - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
    - 3) Water jetting is NOT allowed.
  - B. Flowable Fill: If controlled low strength material is placed in the trench. Cure the material before placing surface restorations.
  - C. Embankment Backfill: When trench sides are sloped proceed as follows.
    - 1) Maximum lift thickness is 8-inches before compaction.
    - 2) Compact per APWA Section 31 23 26 to 95 percent or greater relative to a standard proctor density.
    - 3) Submission of quality control compaction test result data may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
  - D. Surface Restoration:
    - 1) Landscaped Surface: Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements. Rake to match existing grade. Replace vegetation to match pre-construction conditions.
    - 2) Paved Surface: Follow APWA Section 33 05 25 (bituminous pavement surfacing), or APWA Section 33 05 25 (concrete pavement surfacing). Do not install surfacing until compaction density is acceptable to ENGINEER.

Pipe zone backfill

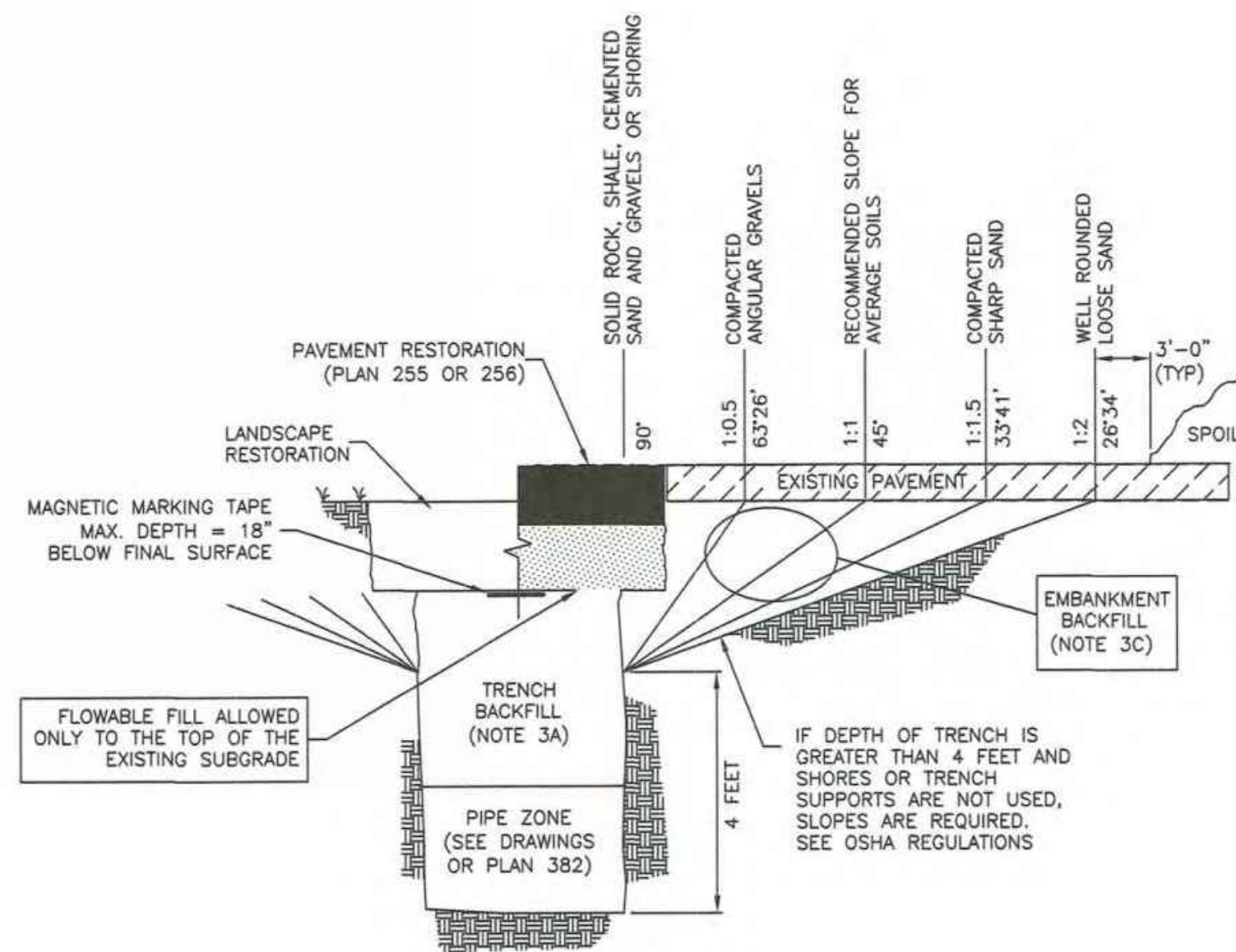
- 1. GENERAL
  - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
- 2. PRODUCTS
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Concrete: APWA Section 03 30 04.
  - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
  - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
- 3. EXECUTION
  - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
  - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
  - C. Bedding: Follow APWA Section 33 05 20 requirements and the following provisions.
    - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
    - 2) Maximum lift thickness is 8-inches.
    - 3) Bedding immediately under the pipe should not be compacted, but loosely placed.
    - 4) Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
    - 5) When using concrete, provide at least Class 2,000, APWA Section 03 30 04.
  - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
    - 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
    - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
  - E. Flowable Fill (when required and if allowed by pipe manufacturer):
    - 1) Place the controlled low strength material, APWA Section 31 05 15.
    - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
    - 3) Reset pipe to line and grade if pipe "floats" out of position.

Pipe outfall

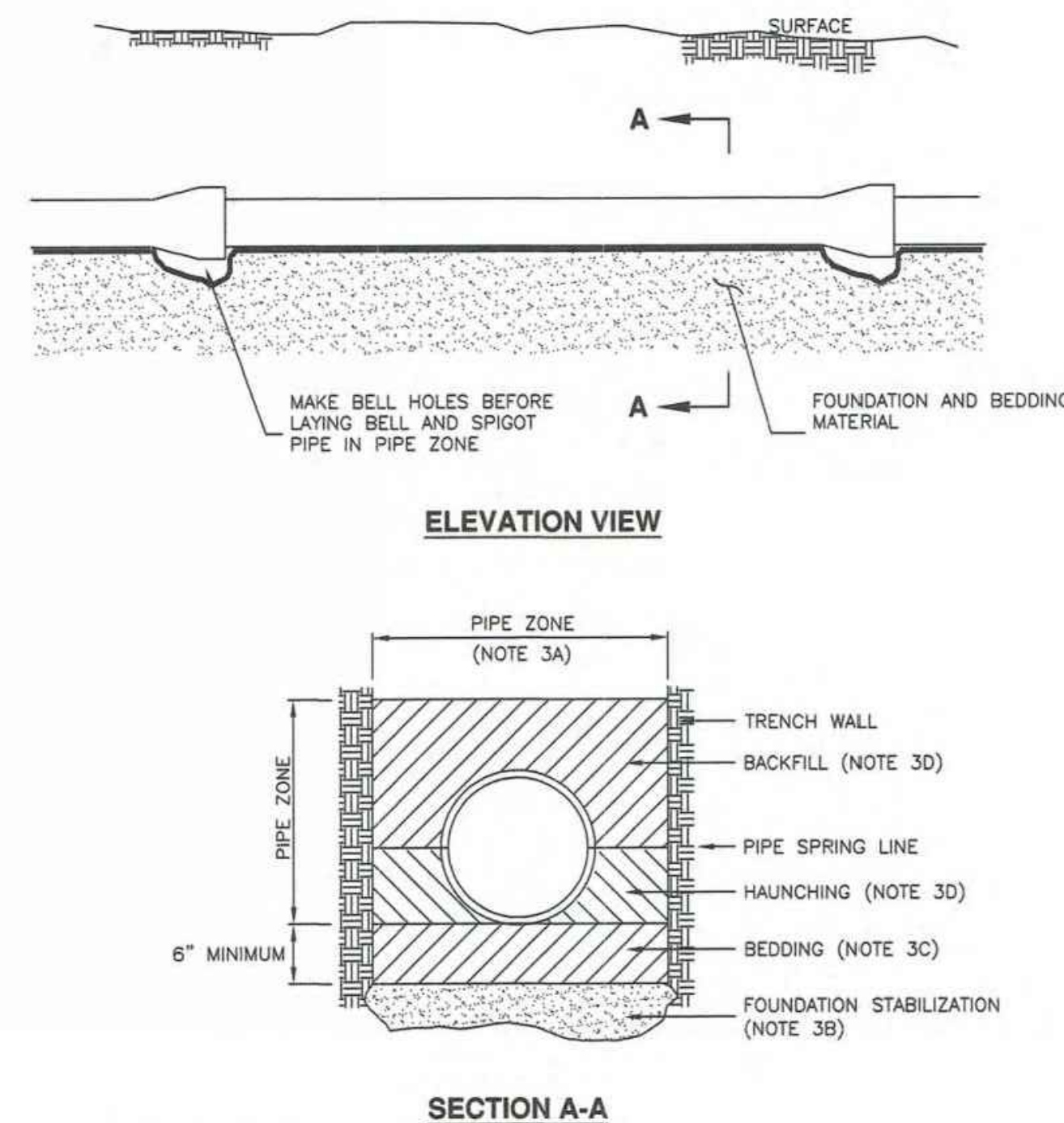
- 1. GENERAL
  - A. Round concrete pipe application.
  - B. Additional requirements are specified in APWA Section 33 05 02.
- 2. PRODUCTS
  - A. Use the same quality of precast end section as the pipe.
  - B. Use the joint material and connection that is the same as the joints in the pipeline.
- 3. EXECUTION
  - A. General dimensions and geometric shapes may vary from manufacturer to manufacturer.
  - B. Steel reinforcement is not required in the concrete end section shown.
  - C. Provide joint restraint connectors if required by ENGINEER.

381

NARRATIVE: THIS PLAN SHOWS VARIOUS SLOPES RECOMMENDED FOR VARIOUS TYPES OF SLOPE STABILITY PROBLEMS. THE VERTICAL TEXT INDICATES VARIOUS MATERIALS THAT MAY BE ENCOUNTERED. THE SERVICES OF A PROFESSIONAL SOILS ENGINEER SHOULD BE USED TO VERIFY SLOPE STABILITY.



382



INSTALLATION

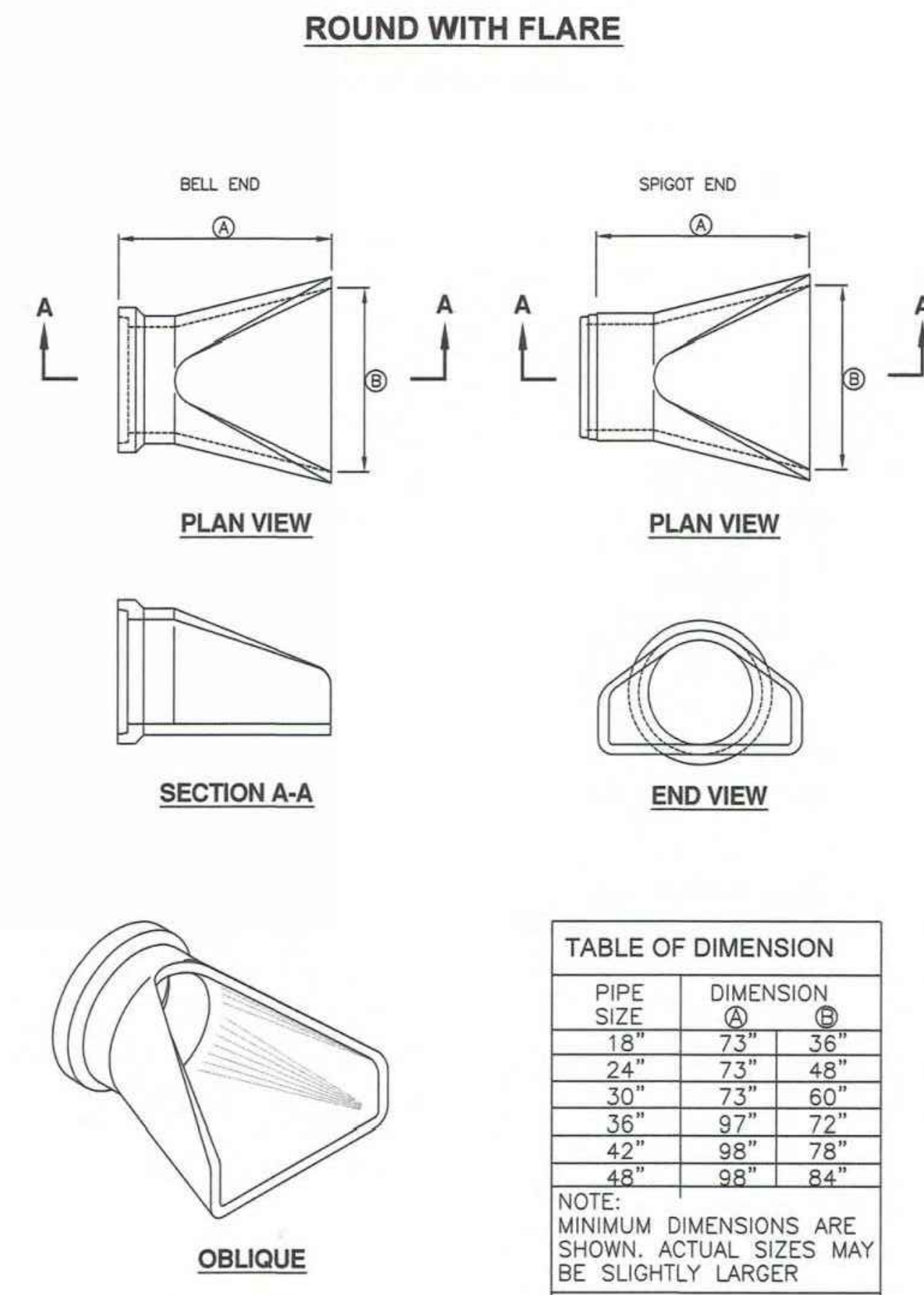
CONCRETE PIPE: FOLLOW ASTM C 1479  
 \*STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.

PLASTIC PIPE: FOLLOW ASTM D 2321  
 \*STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS\*

CORRUGATED METAL PIPE: FOLLOW ASTM A 798  
 \*STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.  
 \*STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

323.1



PRELIMINARY NOT FOR CONSTRUCTION



TALISMAN CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
DETAILS

DATE: 06.16.2023

TCC JOB NUMBER: 22-126



Trench backfill

Plan 381  
July 2016



Pipe zone backfill

Plan 382  
January 2011



Pipe outfall

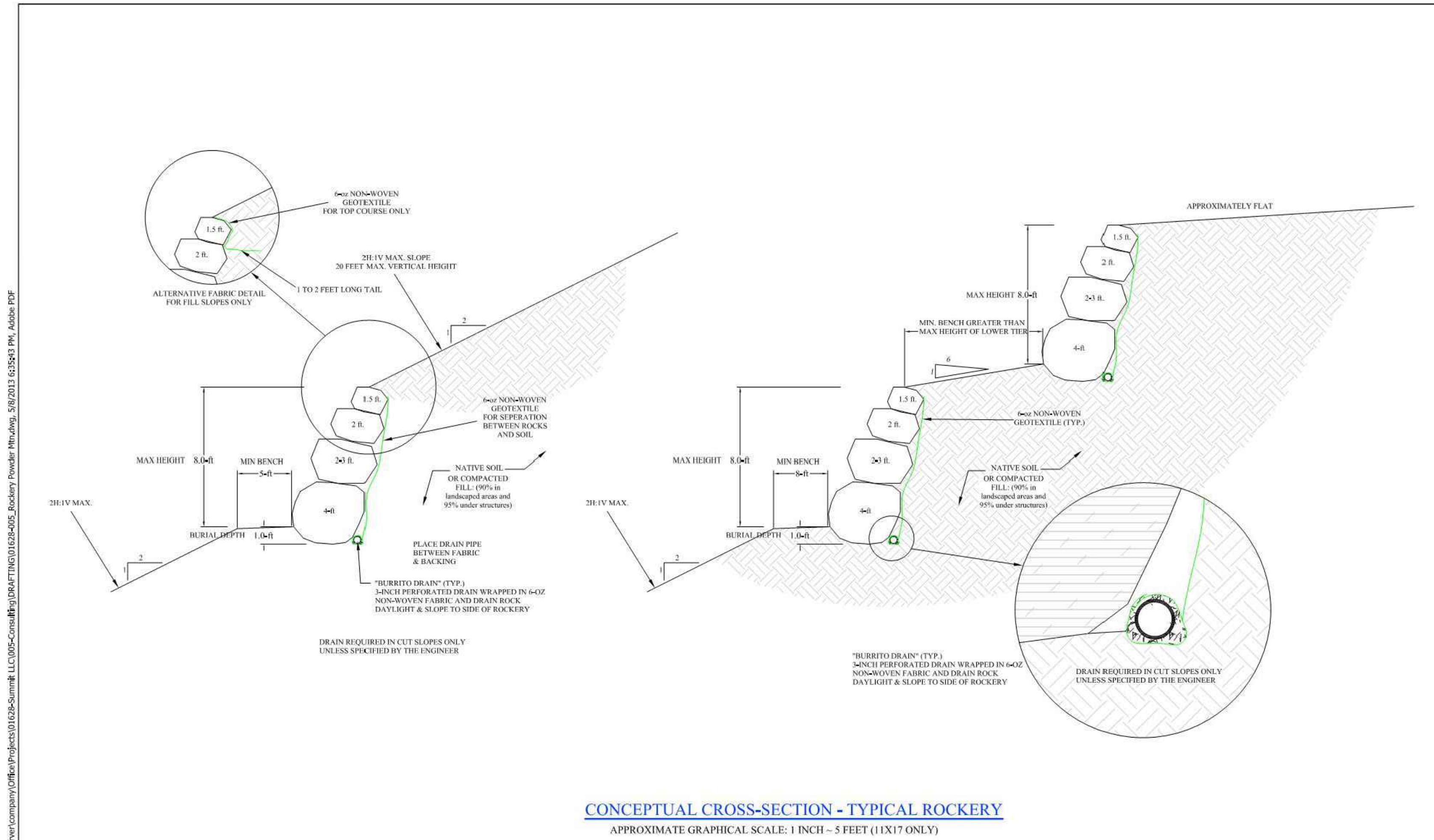
Plan 323.1  
November 2010



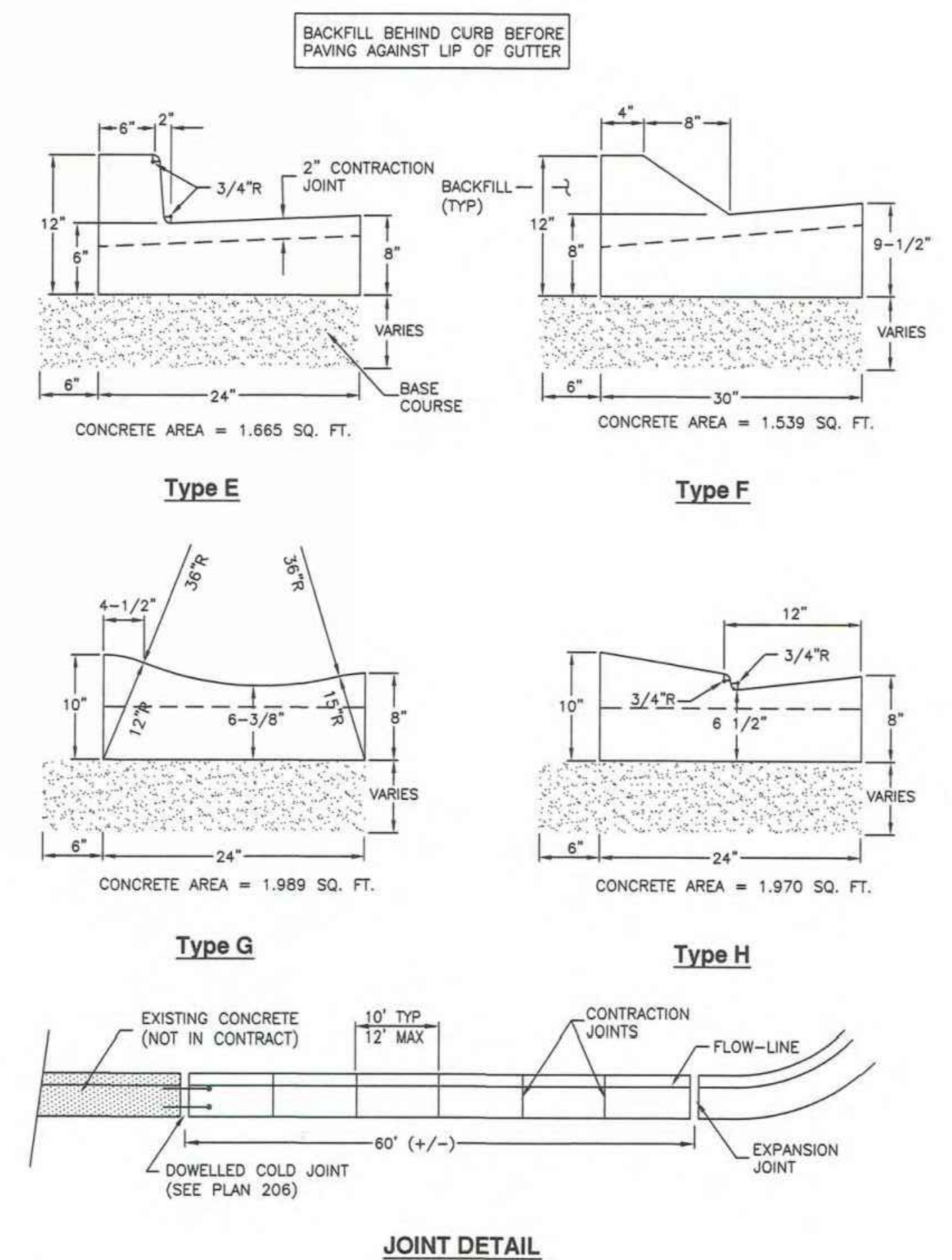
SHEET NUMBER  
C701

13 OF 16





**CONCEPTUAL CROSS-SECTION - TYPICAL ROCKERY**  
APPROXIMATE GRAPHICAL SCALE: 1 INCH = 5 FEET (1:1X17 ONLY)



**JOINT DETAIL**  
*Curb and gutter*

Plan 205.2  
April 2011

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



TALISMAN CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
DETAILS**

DATE: 06.16.2023

TCC JOB NUMBER: 22-126

| MARK | REVISIONS | DATE | BY | CHK |
|------|-----------|------|----|-----|
|      |           |      |    |     |

**IGES** 12429 SOUTH 300 EAST, STE. 100  
DRAPER, UTAH 84020  
(801) 748-4044 FAX: (801) 748-4045

**ROCKERY CONSTRUCTION GUIDELINES**  
POWDER MOUNTAIN RESORT  
WEBER COUNTY, UTAH  
CONCEPTUAL SECTION VIEW

DESIGNED BY: DAG MAY 07, 2013 PLOT SCALE: 1"=1'  
DRAWN BY: DAG MAY 07, 2013 1"=1'  
CHECKED BY: KAH MAY 08, 2013 DWG SCALE: 1"=5'  
APPROVED BY: DAG MAY 07, 2013 1"=5'  
IGES PROJECT NO. SHEET NO. A-1 (REV. 01628-005) SHEET NO. A-1 (REV. N/A)



**RECOMMENDED TRENCH QUANTITIES**

| PIPE DIAMETER (INCHES) | RECOMMENDED MAXIMUM TRENCH WIDTH FOR FILL IN PIPE ZONE | RECOMMENDED MAXIMUM WIDTH FOR FILL & SURFACING ABOVE PIPE ZONE |
|------------------------|--|--|
| 4                      | 120.0  | 1828.0   |
| 6                      | 155.4  | 1828.0   |
| 8                      | 203.2  | 1828.0   |
| 10                     | 244.0  | 1828.0   |
| 12                     | 304.8  | 1828.0   |
| 15                     | 381.0  | 1828.0   |
| 18                     | 457.2  | 1828.0   |
| 21                     | 533.4  | 1828.0   |
| 24                     | 609.6  | 1828.0   |
| 30                     | 762.0  | 2153.6   |
| 36                     | 914.4  | 2153.6   |
| 42                     | 1066.8   | 2438.4   |
| 48                     | 1219.2   | 2438.4   |
| 54                     | 1371.6   | 2743.2   |
| 60                     | 1524.0   | 3048.0   |

**NOTES:**

- THE DISTRICT RECOMMENDS CONTRACTOR MEET ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING (SEE OSHA AND USOH REQUIREMENTS, LATEST EDITIONS).
- CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 50' OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE DISTRICT ENGINEER TO MODIFY GRADE OF PIPELINE IN ORDER TO GO AROUND UTILITIES.
- TESTING: ALL NEW SANITARY SEWERS TO BE "TELETESTED" AND NECESSARY REPAIRS MADE BEFORE ACCEPTANCE. ALL LINES SHALL BE PRESSURE TESTED TO 3.5 PSI MIN. FOR 5 MINUTES. A MANHOLE OR DALL CAN BE USED TO VERIFY DEFORMATION OF A PIPE AS DETERMINED FROM THE VIDEO UNLESS SPECIFIED OTHERWISE. MANHOLES SHALL BE TESTED AS DESCRIBED IN SECTION 02535.
- ALL SEWER LINES TO BE INSTALLED IN PUBLIC RIGHT-OF-WAY OR RECORDED SEWER EASEMENT UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.
- WHERE COLLAPSIBLE SOILS ARE ENCOUNTERED, FURNISH PLACE AND COMPACT IMPORTED BACKFILL MATERIALS AS REQUIRED AND AS DIRECTED.
- MIN. DEPTH SHALL BE 4" TO TOP OF PIPE. A 2' SPACING MUST BE MAINTAINED BETWEEN ALL WATER LINE PIPE CROSSINGS AND THE TOP OF THE SEWER PIPE.
- IN AREAS WHERE SEWER LATERALS ARE NEEDED TO SERVE A BASEMENT 1' MIN. IS RECOMMENDED. IF THE SEWER LINE IS NOT 1' DEEP A NOTE MUST BE PLACED ON THE PLAN "BEFORE EXCAVATING BASEMENTS, CONTRACTOR MUST VERIFY SEWER DEPTH"
- MAX. DEPTH SHALL BE 20' TO THE TOP OF PIPE UNLESS APPROVED OTHERWISE BY THE DISTRICT ENGINEER.

**NOTES:**

- IF GRADE ALLOWS, INVERTS OF D1 & D3 SHALL BE REQUIRED TO MATCH TOP OF D2.
- AFTER ALL GRADING AROUND MANHOLE HAS BEEN COMPLETED AND FINAL SURFACING IS IN PLACE, REMOVE DEBRIS AND TEMPORARY PLUGS OR PLYWOOD FROM INSIDE OF MANHOLES.
- IF MANHOLE IS TO BE POURED IN PLACE, FOLLOW SAME PATTERN AS SHOWN EXCEPT USE 10" MIN WALL THICKNESS.
- MANHOLES DEEPER THAN 20 FEET SHALL HAVE AN 18" THICK CONCRETE BASE.
- CONE AND WALL SECTIONS SHALL CONFORM WITH ASTM C-478 STANDARD.
- ALL MANHOLE TO BE H-20 RATED.

**NOTES:**

- ALL HOUSE SERVICES SHALL BE 4" DIAMETER. COMMERCIAL AND PUBLIC SERVICES SHALL BE 6" DIAMETER UNLESS DIRECTED OTHERWISE AND SHALL BE EXTENDED FROM MAIN LINES TO PROPERTY LINES.
- RECOMMENDED MINIMUM GRADE SHALL BE 1% FOR 6" SERVICE LINE AND 2% FOR 4" SERVICE LINE.
- ALL 90° BENDS AT CONNECTION TO MAIN MUST BE CONSTRUCTED WITH ONE 45° BEND AND A WYE.
- DIRECT NOSE ON IS ALLOWED WHEN CONNECTING TO EXISTING MAIN LINE. USE RUBBER BOOT AS PER DISTRICT WITH STAINLESS STEEL STRAPS, IF REQUIRED. CORE CUT EXISTING PIPE, DO NOT BREAK OUT WITH A HAMMER.
- NOTIFY DISTRICT 24 HOURS IN ADVANCE OF ANY CONNECTION. EVERY CONNECTION TO BE INSPECTED BY DISTRICT.
- CONNECTION TO USERS TO BE DONE BY OTHERS.

**STANDARD SEWER TRENCH**

DATE: APRIL 2021  
DRAWING NAME: SS-1  
DRAWN BY: BFP/JM  
CHECKED BY: APPROVED

**GILSON ENGINEERING**  
Civil Engineering & Surveying  
1200 SOUTH 400 EAST BUILDING C, UNIT 2, DRAPER, UT 84008  
PHONE: (801) 571-9404 FAX: (801) 571-9444  
WWW.GILSON.UT

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT**

**SANITARY SEWER MANHOLE**

DATE: APRIL 2021  
DRAWING NAME: SS-2  
DRAWN BY: BFP/JM  
CHECKED BY: APPROVED

**GILSON ENGINEERING**  
Civil Engineering & Surveying  
1200 SOUTH 400 EAST BUILDING C, UNIT 2, DRAPER, UT 84008  
PHONE: (801) 571-9404 FAX: (801) 571-9444  
WWW.GILSON.UT

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT**

**SEWER SERVICE CONNECTION**

DATE: APRIL 2021  
DRAWING NAME: SS-3  
DRAWN BY: BFP/JM  
CHECKED BY: APPROVED

**GILSON ENGINEERING**  
Civil Engineering & Surveying  
1200 SOUTH 400 EAST BUILDING C, UNIT 2, DRAPER, UT 84008  
PHONE: (801) 571-9404 FAX: (801) 571-9444  
WWW.GILSON.UT

**POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT**

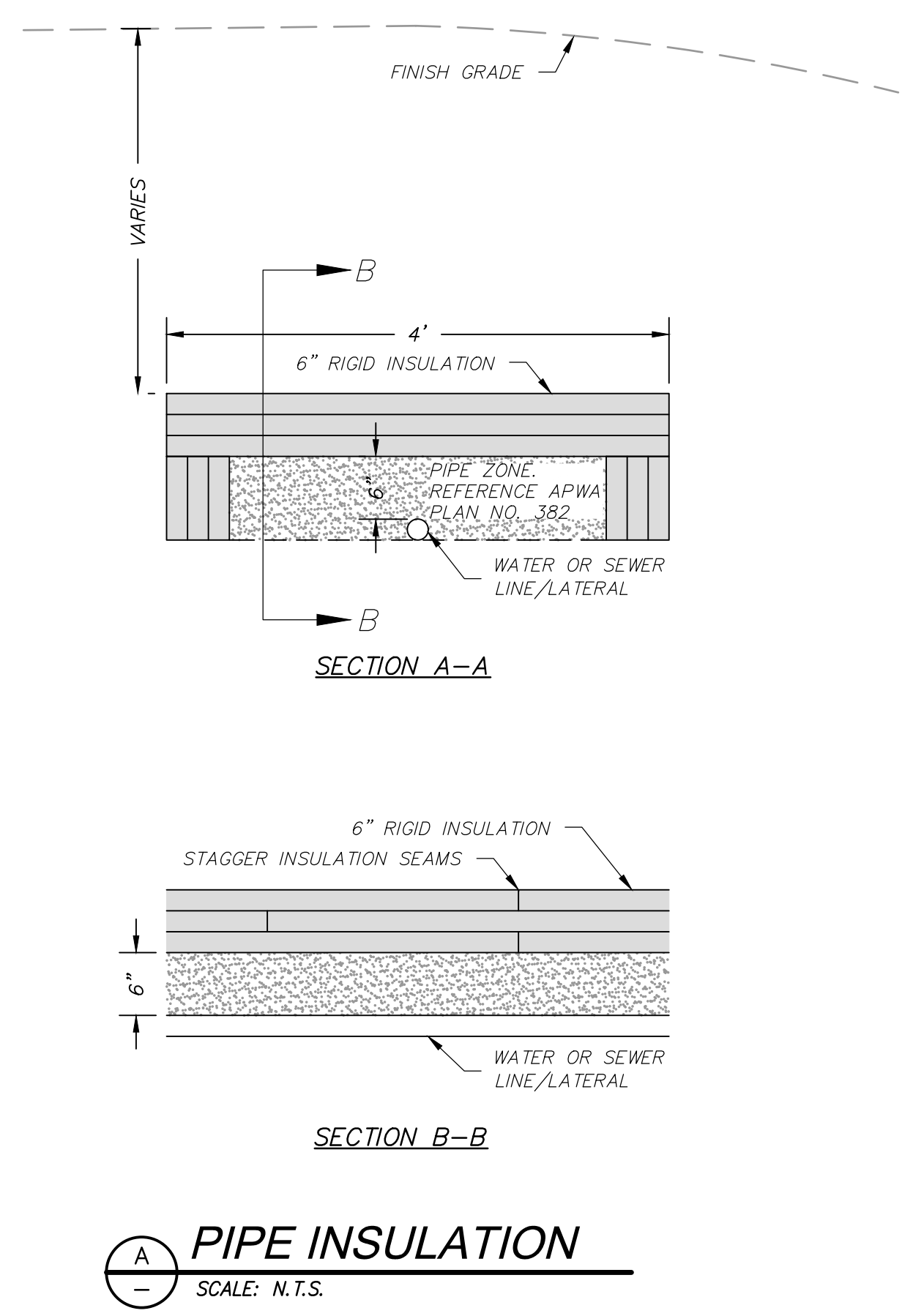
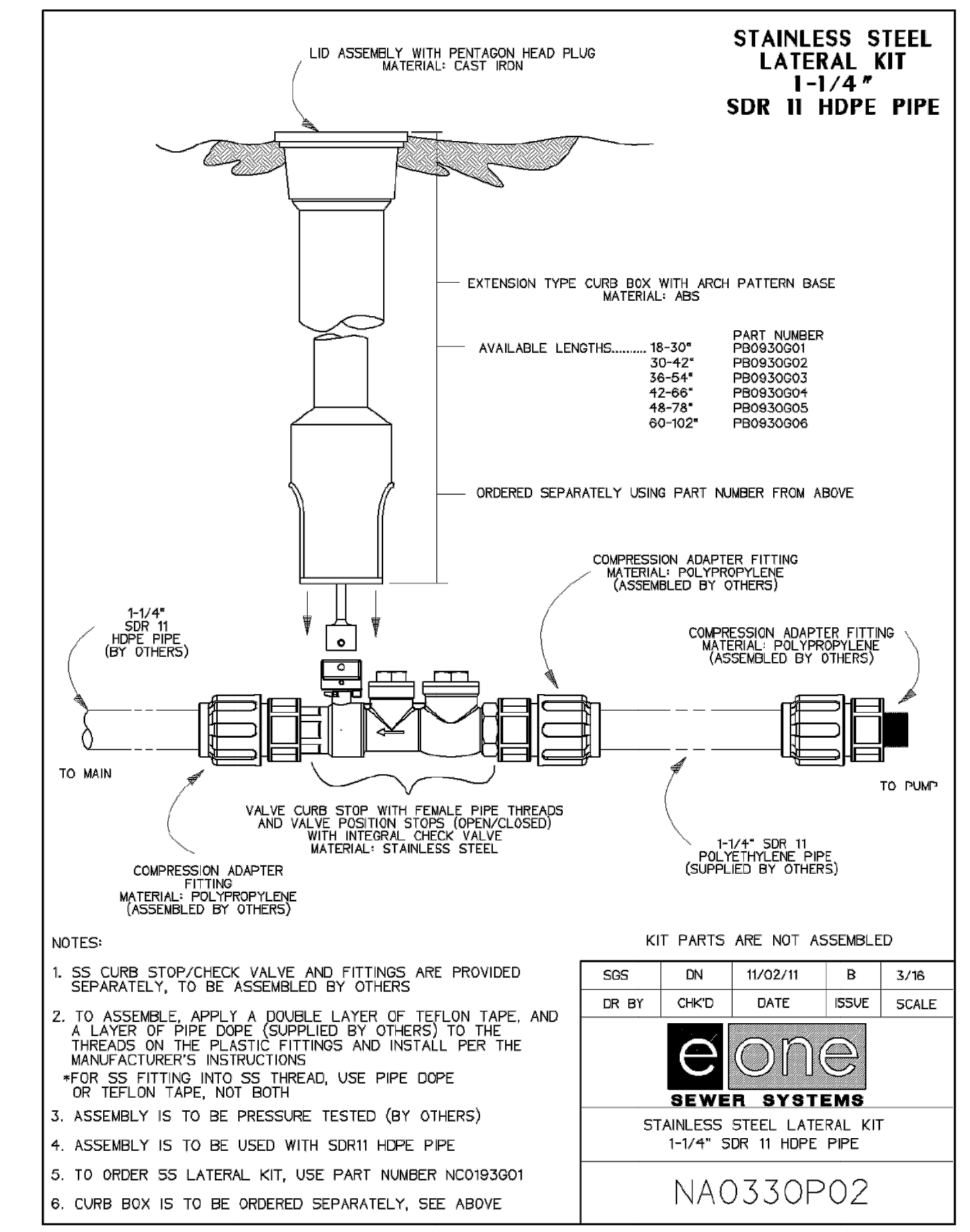
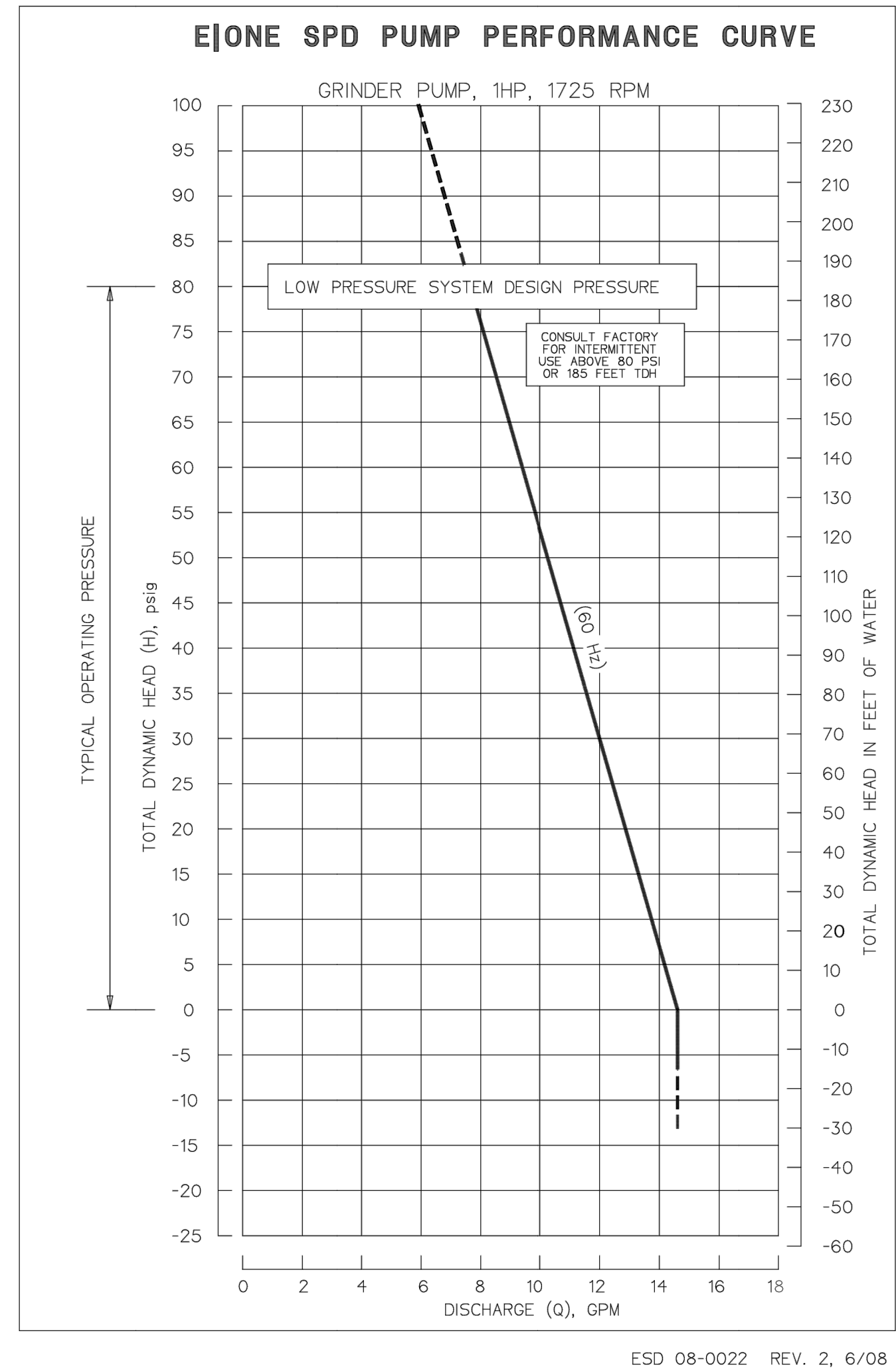
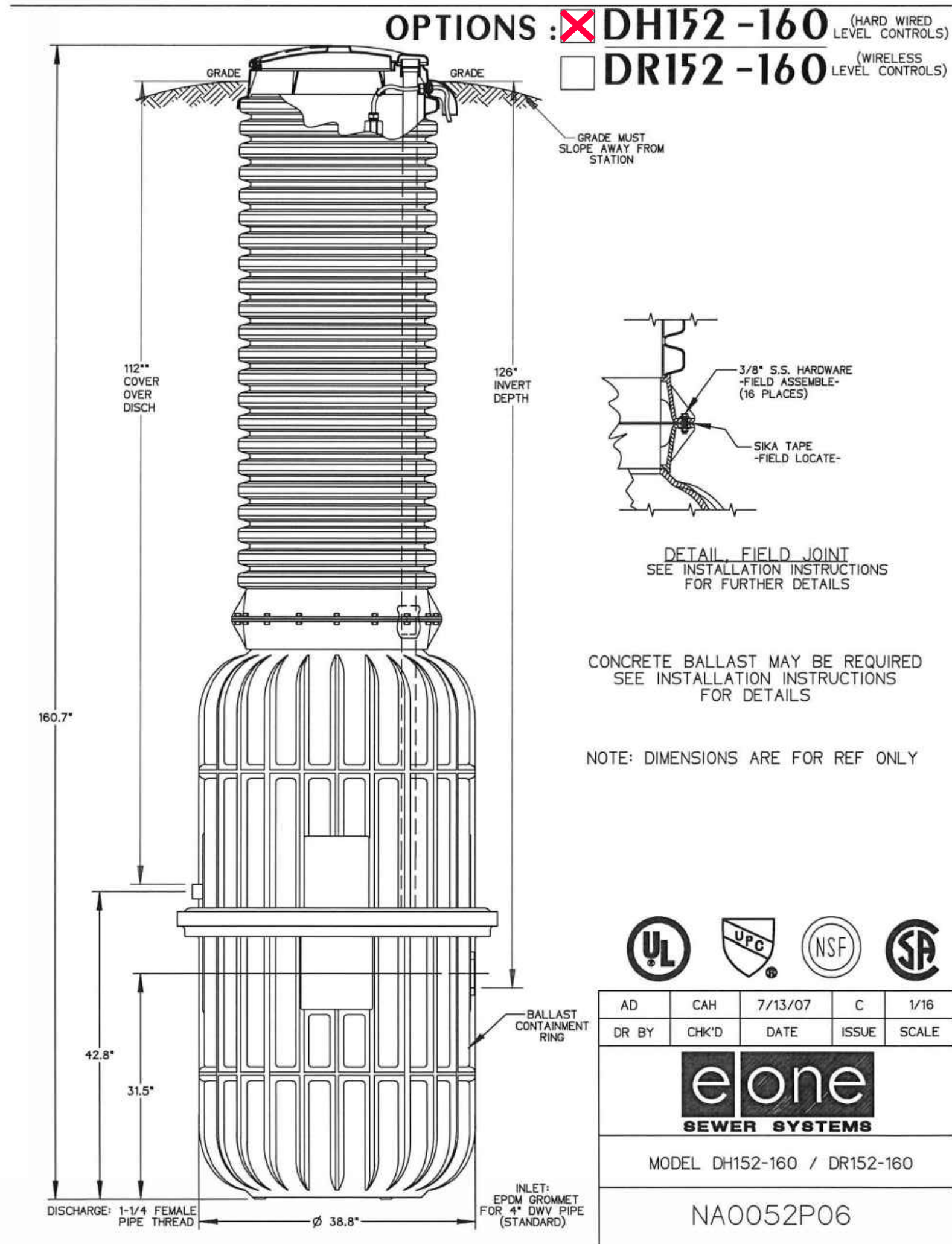
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SHEET NUMBER  
**C702**



DATE: 12/22/2022



**PRELIMINARY**  
 NOT FOR CONSTRUCTION



| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
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**POWDER POINT**  
**OVERLOOK POINT, POWDER MOUNTAIN, UTAH**  
**DETAILS**

DATE: 06.16.2023

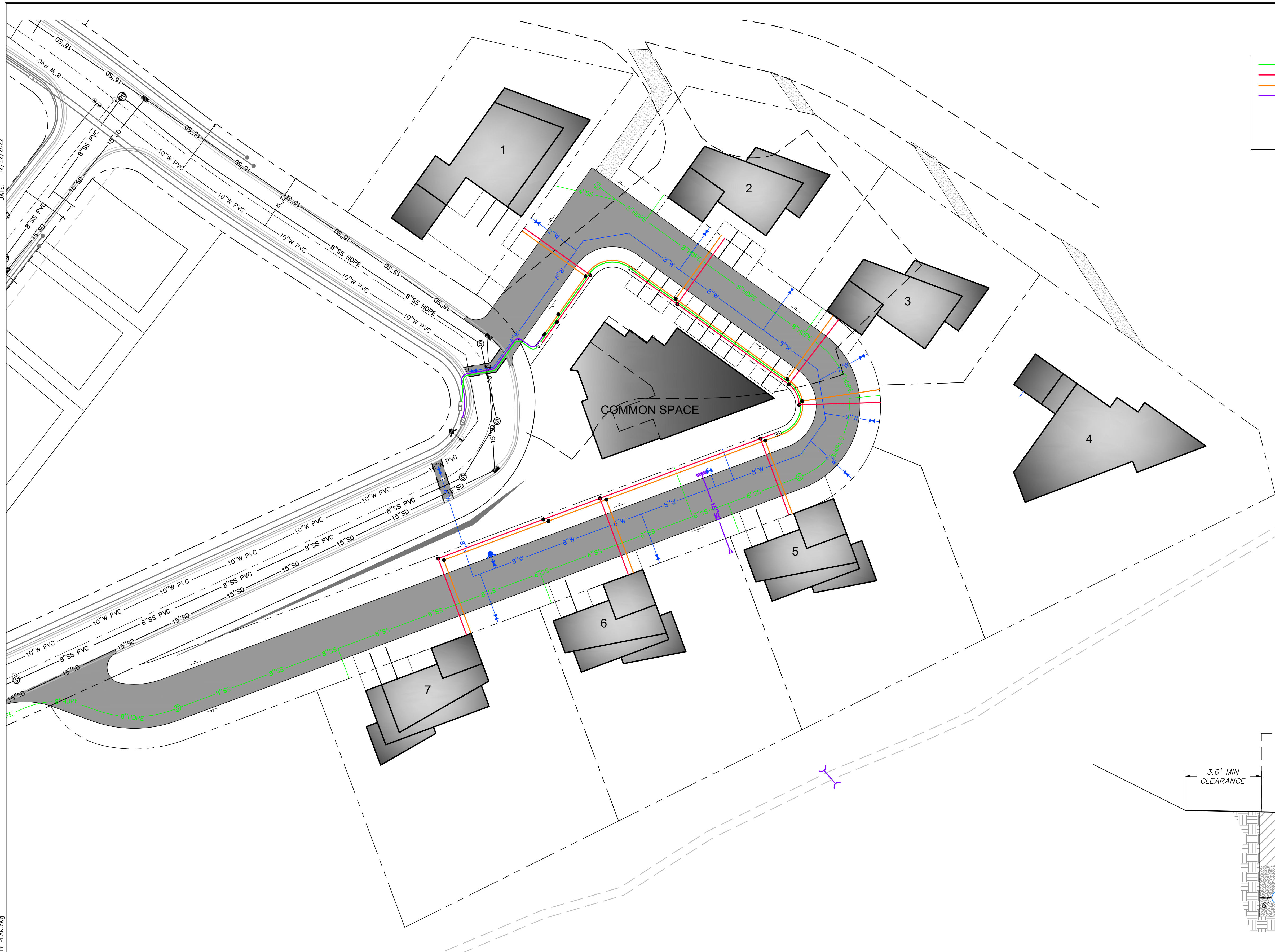
TCC JOB NUMBER: 22-126





DATE: 12/22/2022

PATH: m:\s\80793\cadd\22-126 - overlook.mnt\cadd\up\_800 DRY UTILITY PLAN.dwg



**LEGEND**

- 3" CONDUIT (PRIMARY ELECTRICAL, 36" COVER)
- 3" CONDUIT (SECONDARY ELECTRICAL, 30" COVER)
- 2" CONDUIT (COMMUNICATIONS, 30" COVER)
- 4" CONDUIT (COMMUNICATIONS, 30" COVER)
- FUTURE RMP TRANSFORMER
- FUTURE RMP SERVICE BOX
- 17"x30" COMM BOX (OLDCASTLE POLYMER 1730)
- 10" COMM BOX (CARSON 910)

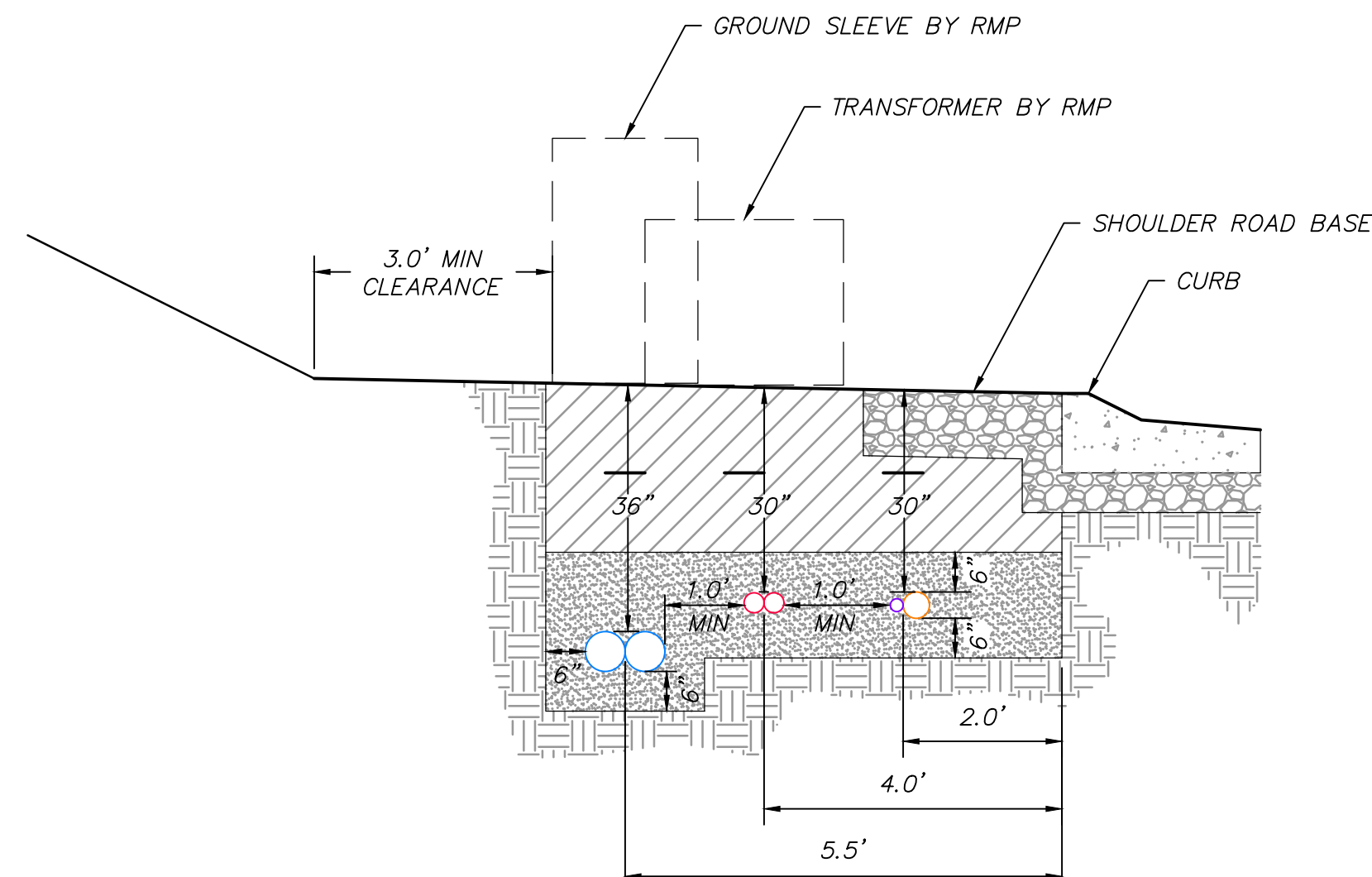
PRELIMINARY  
NOT FOR CONSTRUCTION

**TALISMAN**  
CIVIL CONSULTANTS  
1588 SOUTH MAIN STREET  
SUITE 200  
SALT LAKE CITY, UT 84115  
801.743.1300

| NO. | DATE | BY | REVISIONS |
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**POWDER POINT  
OVERLOOK POINT, POWDER MOUNTAIN, UTAH  
DRY UTILITY PLAN**

TCC JOB NUMBER: 22-126      DATE: 06.16.2023



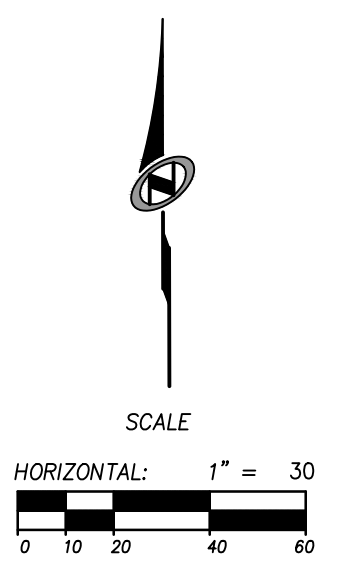
**NOTES:**

- \* SCREENED BACKFILL SHALL CONTAIN ONLY SOIL & ROCKS THAT WILL PASS THROUGH A 4" SIEVE.
- \* PRIOR TO BACKFILLING, ROCKY MOUNTAIN POWER SHALL INSPECT BACKFILL MATERIAL AND CONDUIT INSTALLATION
- \* INSTALL FLAT PULL LINE RATED TO WITHSTAND 1000 LBS OF TENSION WITHIN CONDUITS WITH 72" EXTRA LINE FROM EACH END. PULL LINE TO BE SEALED INSIDE ENDS OF CONDUIT AND BOTH CONDUIT ENDS CAPPED.
- \* BACKBONE PRIMARY REQUIRES (2) 6" CONDUITS. PRIMARY TO TRANSFORMERS REQUIRES (1) 3" CONDUIT. WHERE BOTH EXIST IN SAME TRENCH, PROVIDE 12" SEPARATION. ALL PRIMARY TO HAVE 36" COVER.

**LEGEND**

- CONDUIT FOR PRIMARY ELECTRICAL
- 3" CONDUIT FOR PRIMARY ELECTRICAL
- 3" CONDUIT FOR SECONDARY ELECTRICAL
- 4" CONDUIT FOR COMMUNICATIONS
- 2" CONDUIT FOR COMMUNICATIONS
- MYLAR WARNING TAPE
- UNDISTURBED EARTH
- SCREENED BACKFILL MIN 6" AROUND ALL SIDES OF CONDUITS.
- BACKFILL COMPACTED TO 90%
- ROAD BASE

DRY UTILITY TRENCH



SHEET NUMBER  
**C800**  
16 OF 16