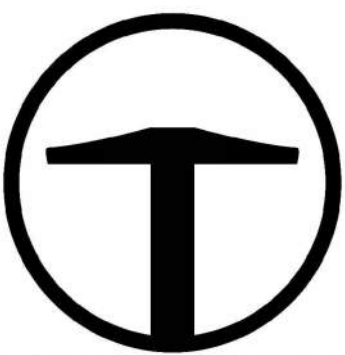


POWDER POINT AT POWDER MOUNTAIN DESIGN DEVELOPMENT DRAWINGS

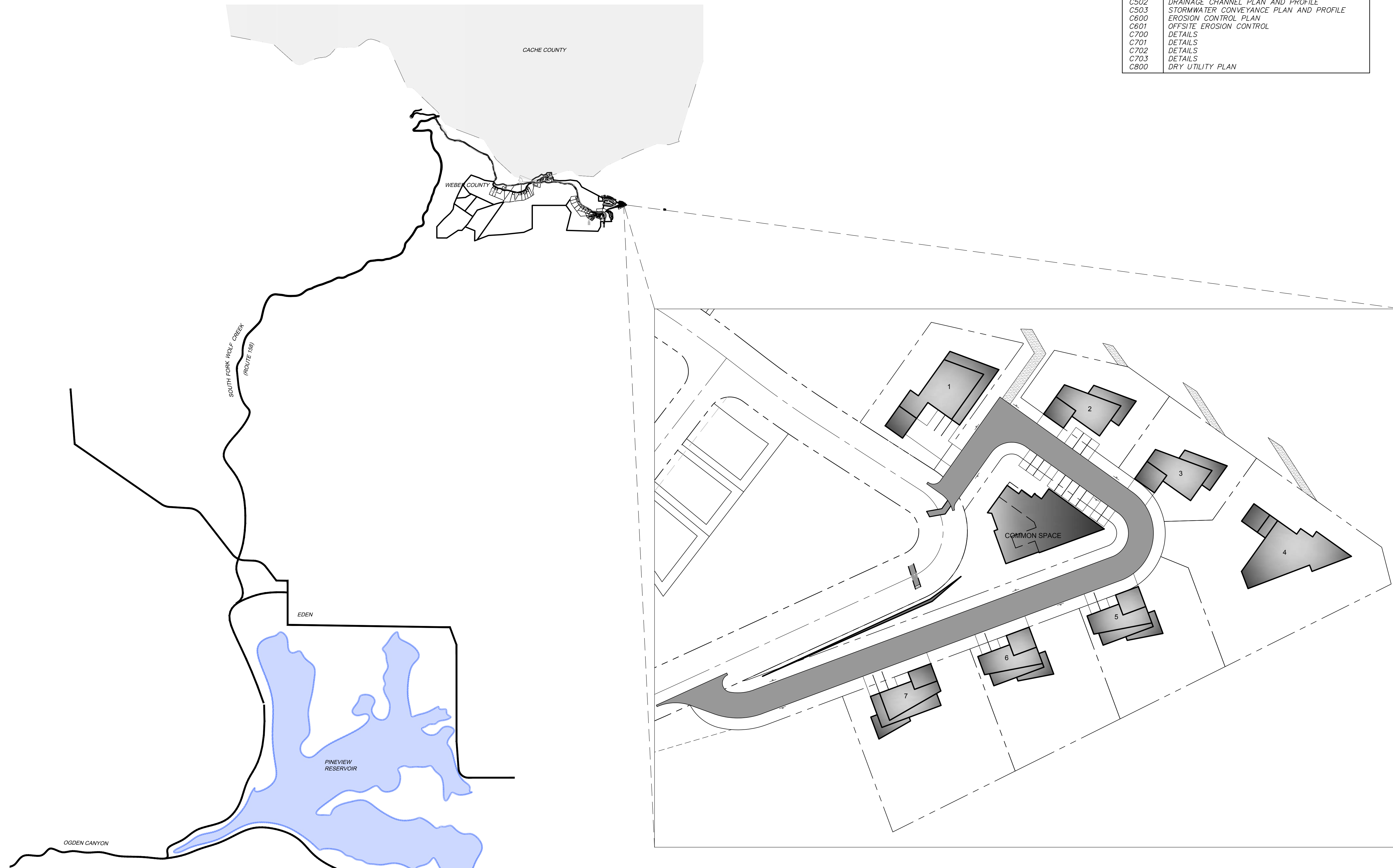
Located in Weber County, Utah



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

SHEET INDEX:

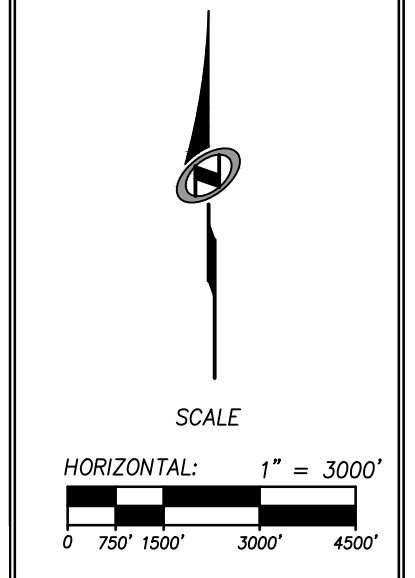
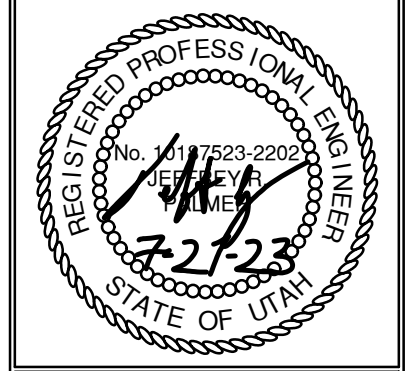
| SHEET NO. | SHEET DESCRIPTION |
|-----------|--|
| C000 | COVER SHEET |
| C001 | GENERAL NOTES |
| C002 | TYPICAL ROAD AND PAVEMENT SECTIONS |
| C200 | DEMOLITION & SITE PLAN |
| C300 | GRADING PLAN |
| C400 | UTILITY PLAN |
| C500 | PLAN AND PROFILE |
| C501 | OFFSITE SEWER LINE PLAN AND PROFILE |
| 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 |



**POWDER POINT
POWDER MOUNTAIN, UTAH
COVER SHEET**

DATE: 07.21.2023

TCC JOB NUMBER: 22-126



SHEET NUMBER
C000
1 OF 16



DATE: 7/21/2023 2:25 PM

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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.

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.

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.

LEGEND:

Table with columns: SYMBOL / LINETYPE, DESCRIPTION, and DETAIL. Lists various utility symbols and their corresponding descriptions and plan references.

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.

WEBER COUNTY

2380 WASHINGTON BLVD. #240
OGDEN, UT 84401
(801) 399-8374

ROCKY MOUNTIAN POWER

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

POWDER MOUNTAIN WATER & SEWER DISTRICT

PO BOX 270
EDEN, UT 84310
(801) 745-0912

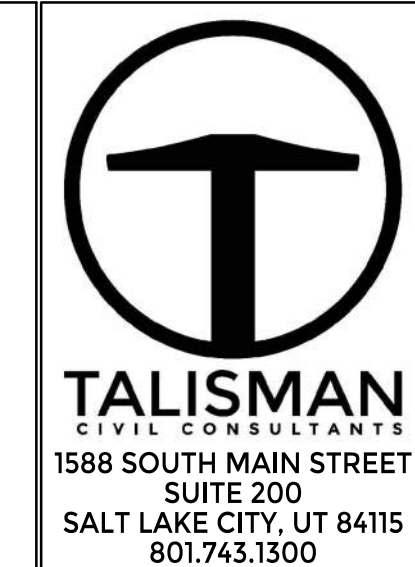
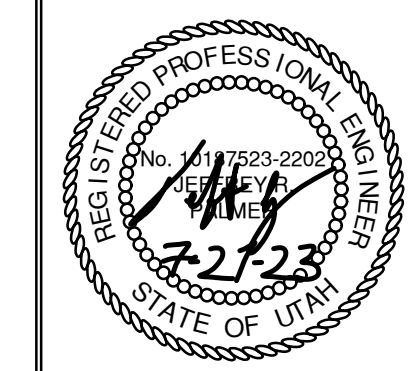


Table with columns: NO., BY, DATE, REVISIONS.

DATE: 07.21.2023

POWDER POINT POWDER MOUNTAIN, UTAH GENERAL NOTES

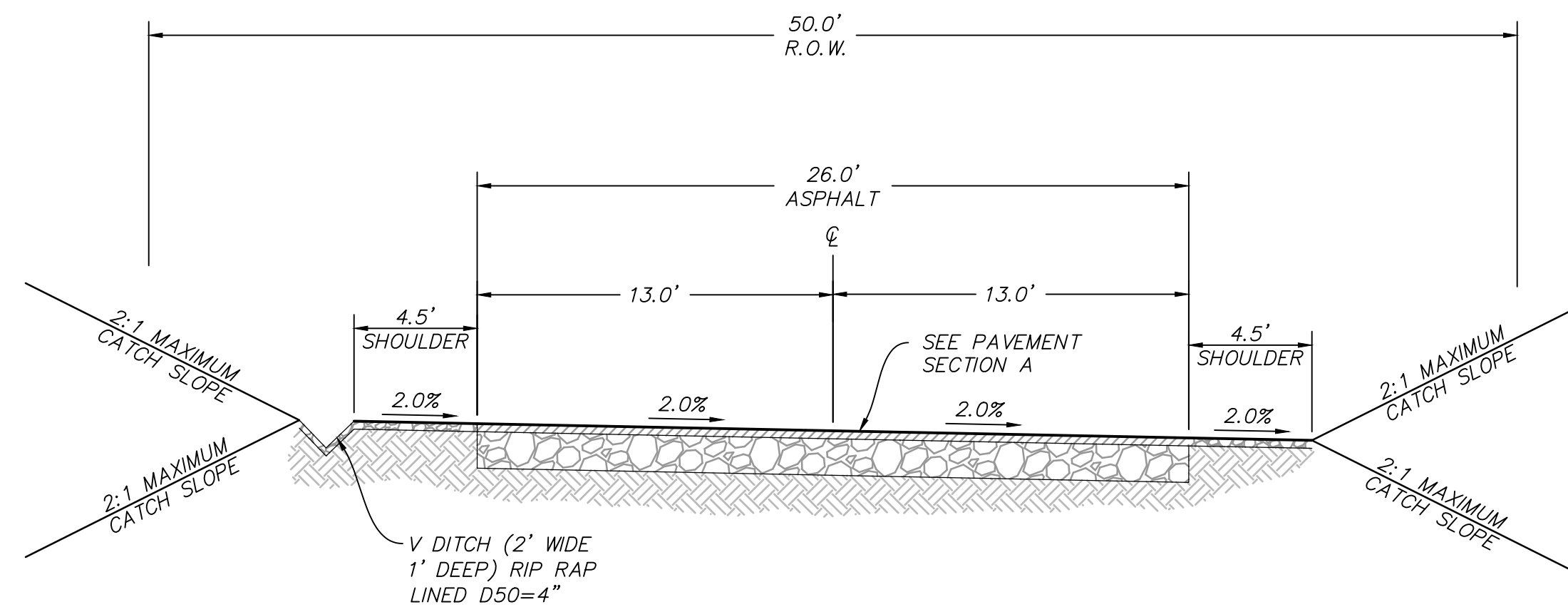
TCC JOB NUMBER: 22-126



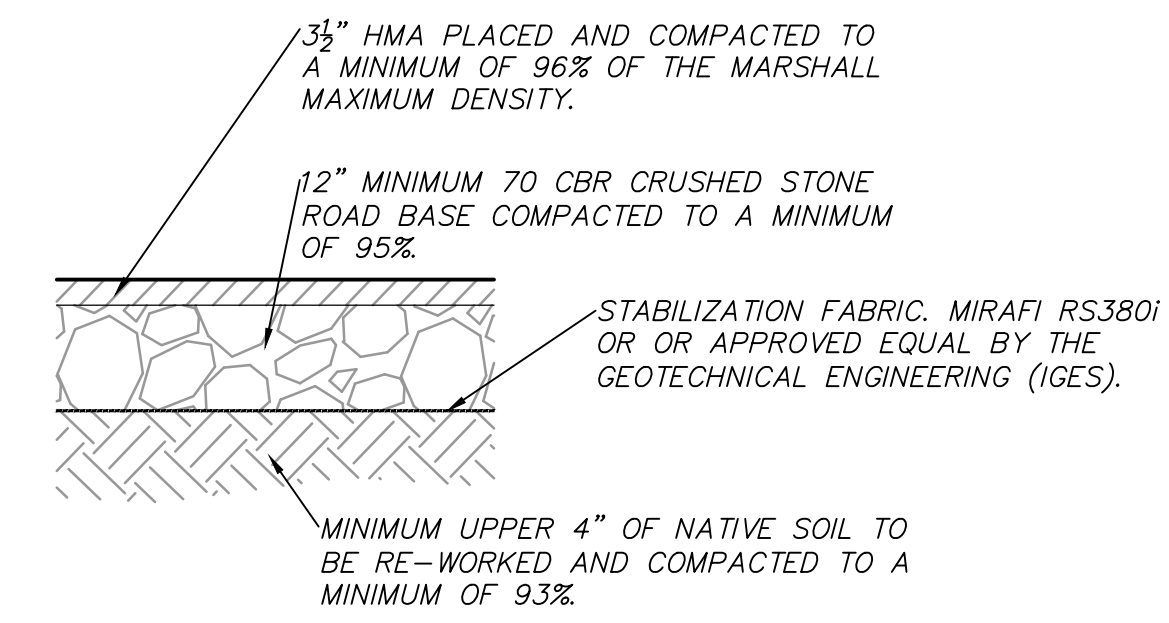
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

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PATH: N:\SIBD793\Cad\122-126 - Overlook Point\Cad\122-126 TYPICAL SECTIONS.dwg

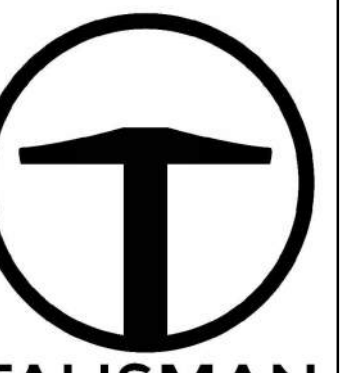


TYPICAL SECTION: POWDER POINT



NOTE: PAVEMENT SECTION DETERMINED BY IGES GEOTECHNICAL REPORT DATED FEBRUARY 12, 2019 (REV.2).

PAVEMENT SECTION A



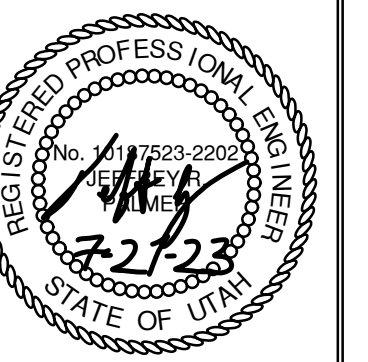
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1588 SOUTH MAIN STREET
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SALT LAKE CITY, UT 84115
801.743.1300

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POWDER POINT
POWDER MOUNTAIN, UTAH
TYPICAL ROAD AND PAVEMENT SECTIONS

TCC JOB NUMBER: 22-126

DATE: 07.21.2023



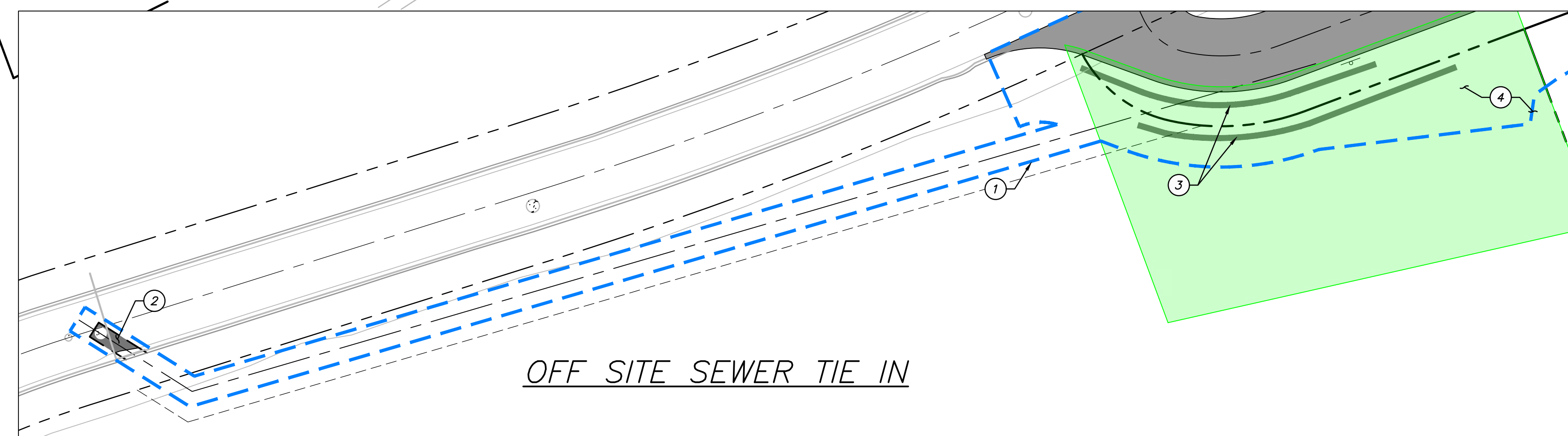
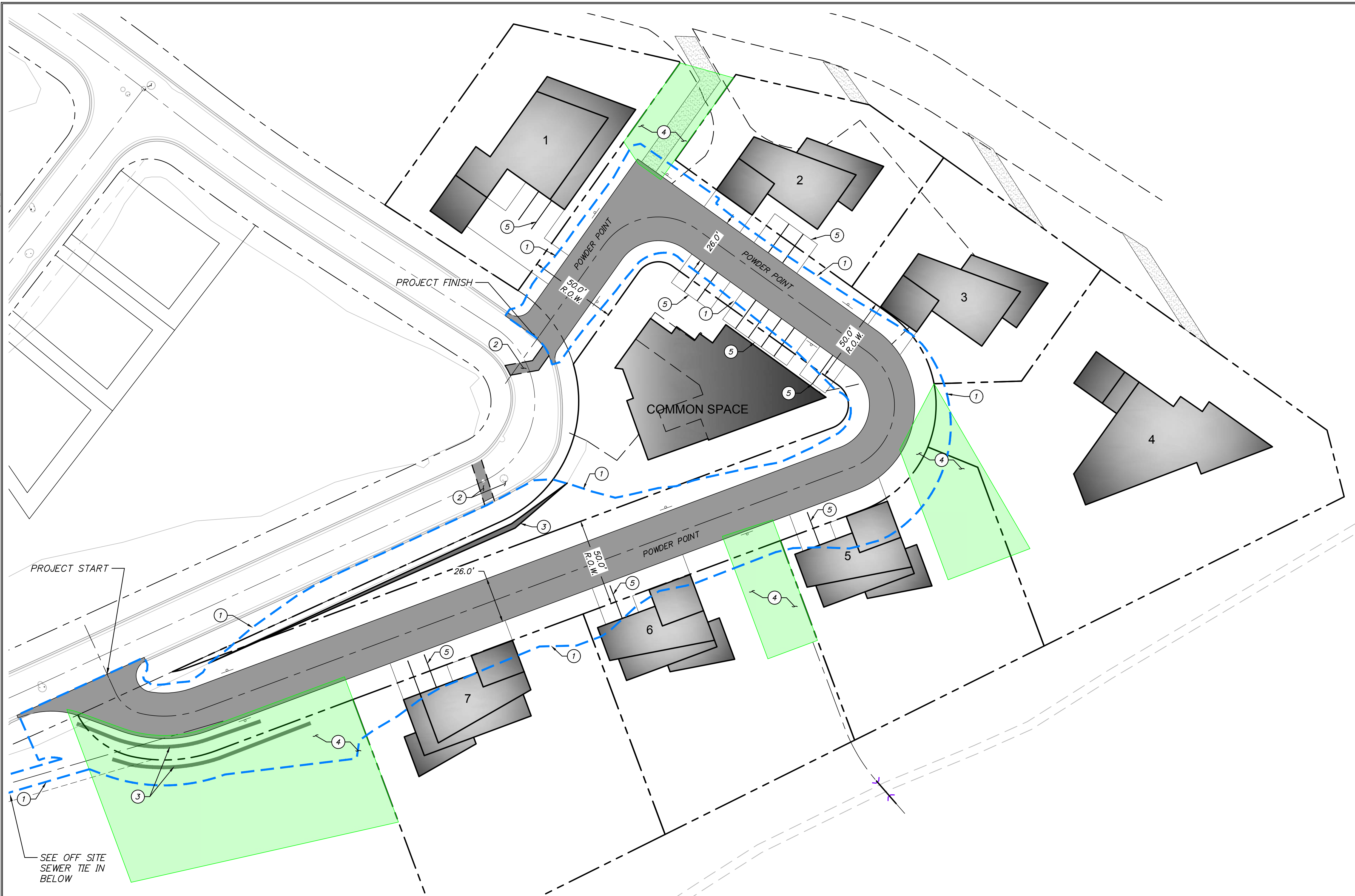
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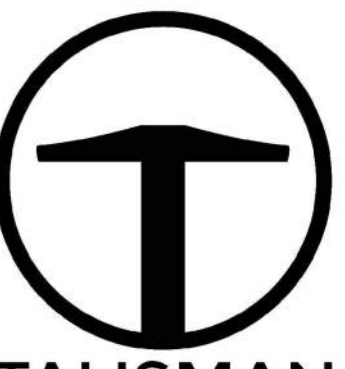
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DATE: 7/21/2023 2:29 PM

PATH: N:\SLB0783\Cadd\22-126 - Overlook Point\Cadd\22-126 DEMOLITION AND SITE PLAN.dwg



- 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.
 - 5 FUTURE PARKING, TO BE DESIGNED AS PART OF BUILDING PERMIT PLAN SET.



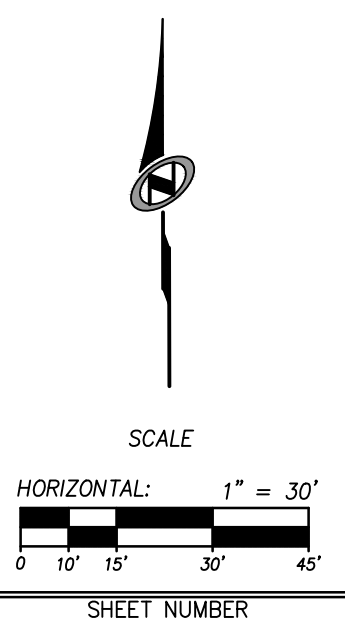
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 1588 SOUTH MAIN STREET
 SUITE 200
 SALT LAKE CITY, UT 84115
 801.743.1300

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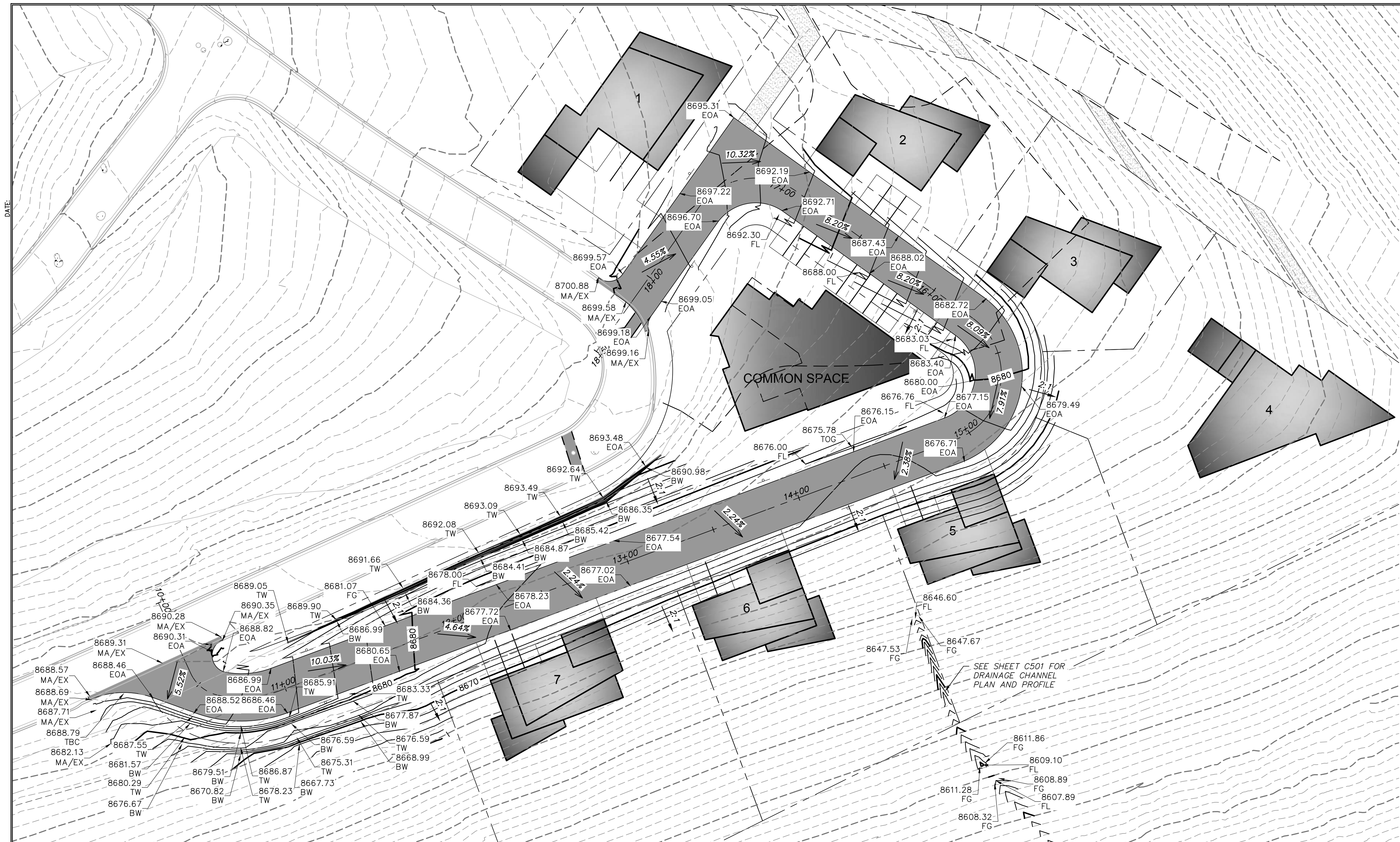
POWDER POINT
POWDER MOUNTAIN, UTAH
DEMOLITION AND SITE PLAN

TCC JOB NUMBER: 22-126

DATE: 07.21.2023



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C200
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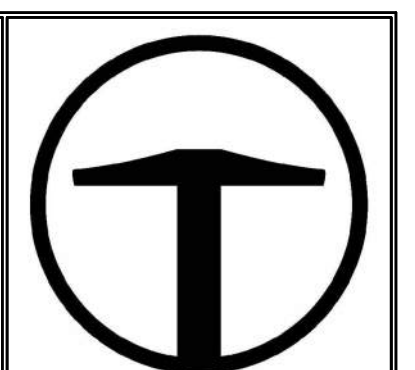
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- GRADING GENERAL NOTES:**
- SEE SHEET C500 FOR PLAN AND PROFILE OF ROAD.
 - SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE 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.
 - LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. 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.
 - 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.

ABBREVIATIONS:

| | |
|-----|--------------------------|
| BS | BOTTOM OF STAIRS |
| BW | BOTTOM OF WALL |
| EX | EXISTING GRADE |
| EP | EDGE OF PAVEMENT |
| FFE | 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 --- PROPOSED ELEVATION CONTOURS

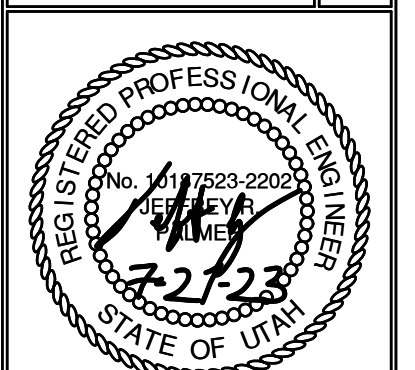


SCALE
 HORIZONTAL: 1" = 30'
 0 10' 15' 30' 45'

POWDER POINT
POWDER MOUNTAIN, UTAH
GRADING PLAN

TCC JOB NUMBER: 22-126

DATE: 07.21.2023

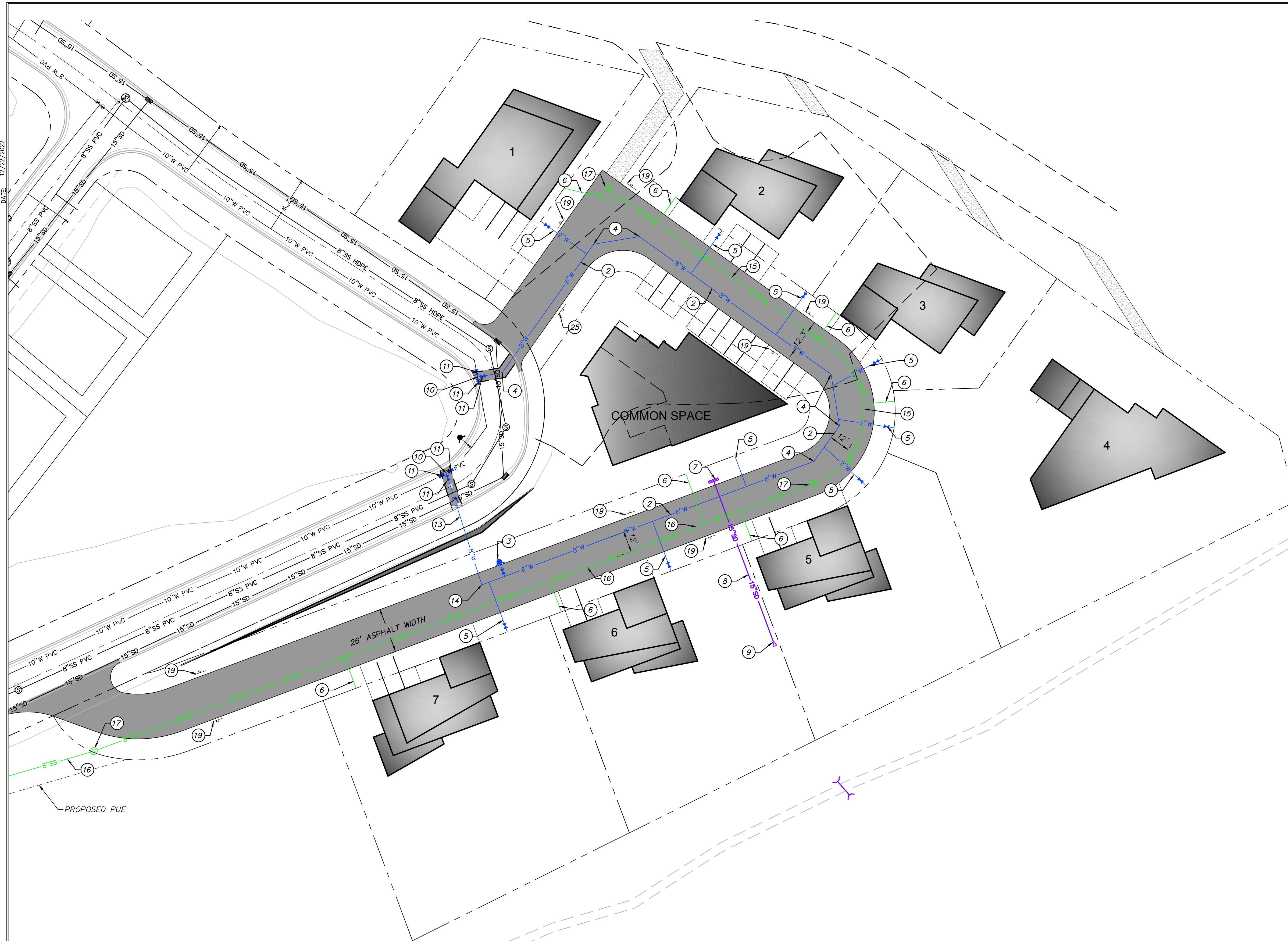


SHEET NUMBER
C300
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DATE: 12/22/2022

PATH: H:\SLB0783\Gada\22-126 - Overlook Point\Gada\16_400 UTILITY PLAN.dwg



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.
5. SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

UTILITY KEYNOTES:

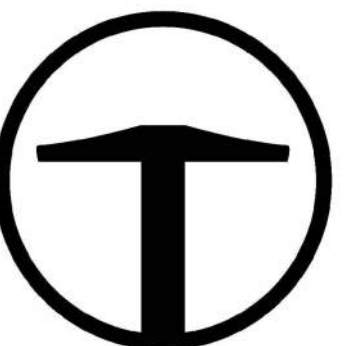
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

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" 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 100 LF OF 15" HDPE STORM DRAIN PIPE @ 26% 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.
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. INSIDE WELD NEEDS TO BE REMOVED ON THE HDPE SEWER PIPE. 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 7' MINIMUM DEPTH.



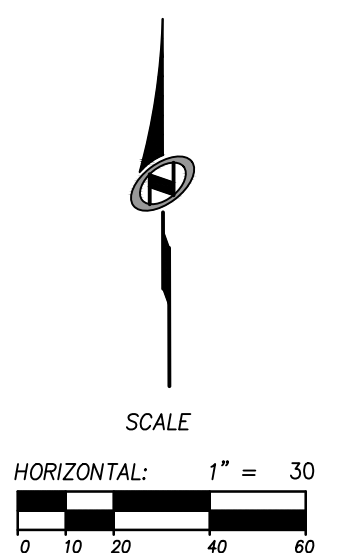
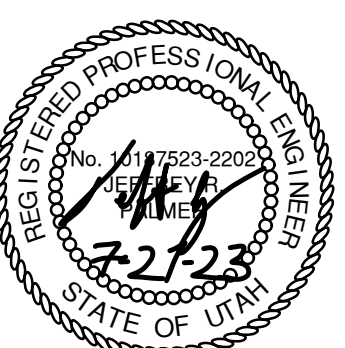
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CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

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

DATE: 07.21.2023

TCC JOB NUMBER: 22-126

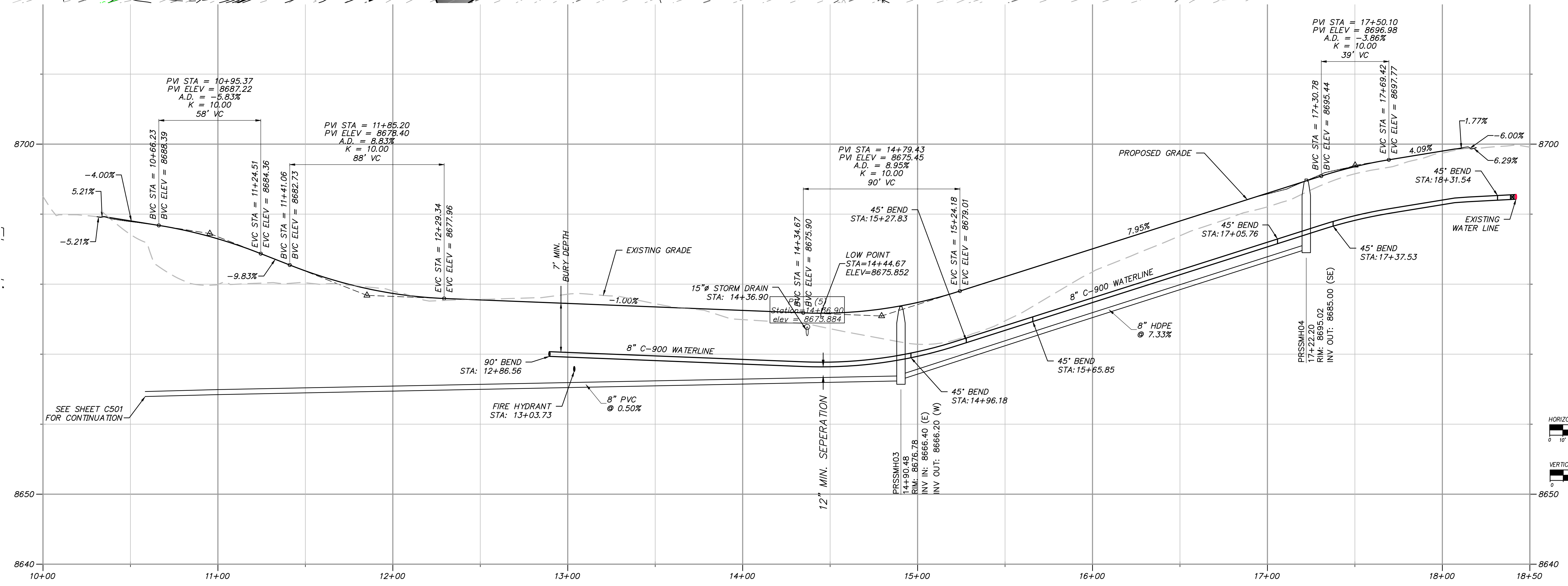
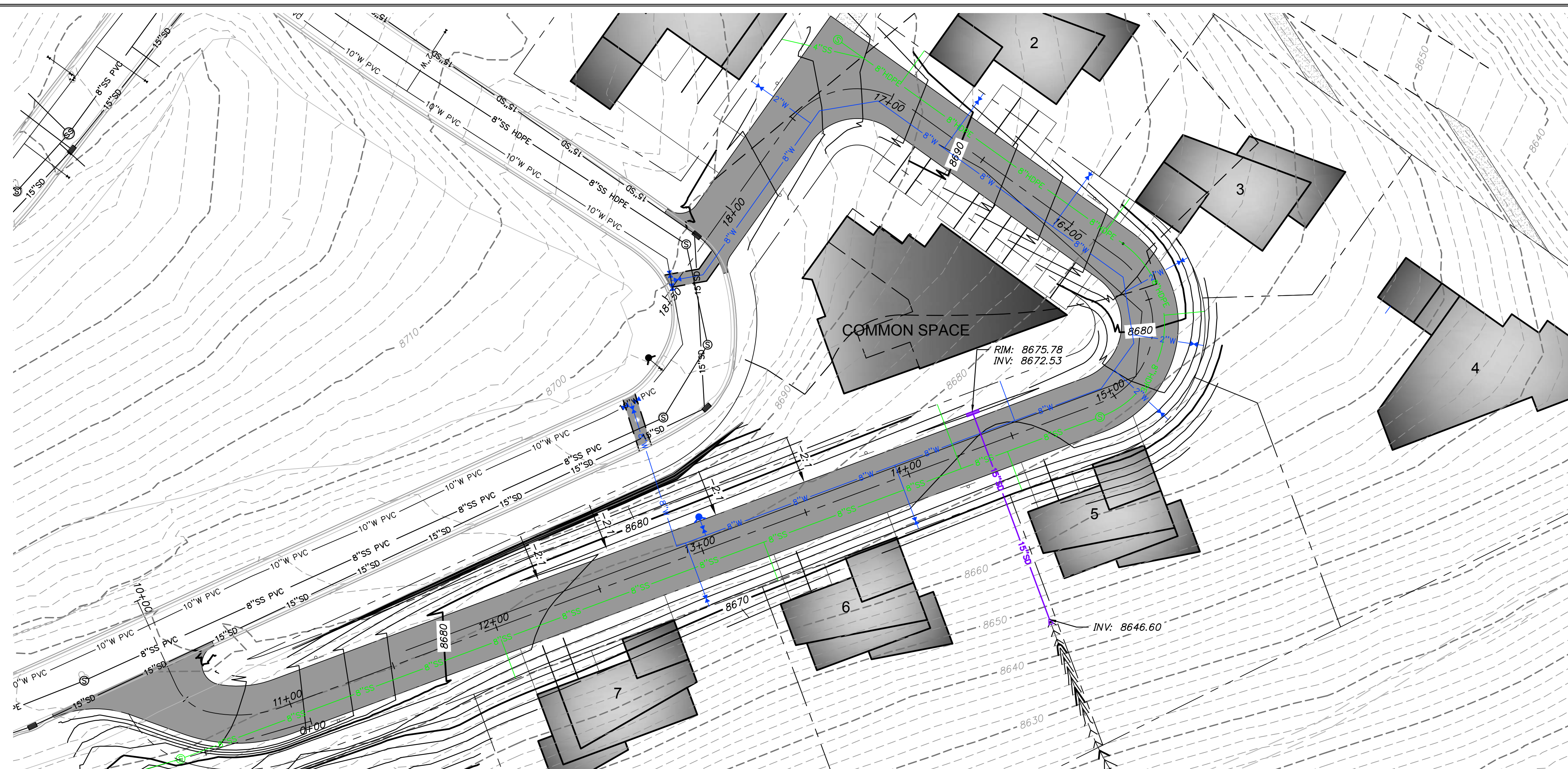


SHEET NUMBER
C400
6 OF 16



DATE: 12/22/2022

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- 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.
 - SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

- 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 7' MINIMUM DEPTH.



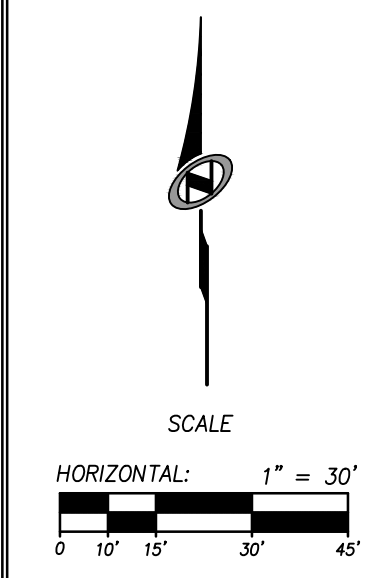
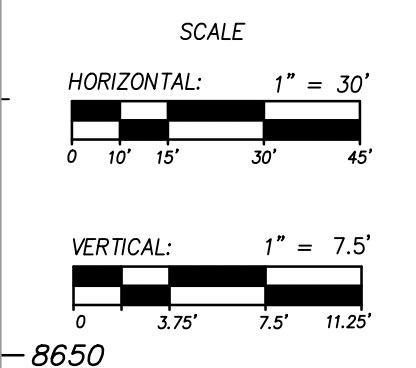
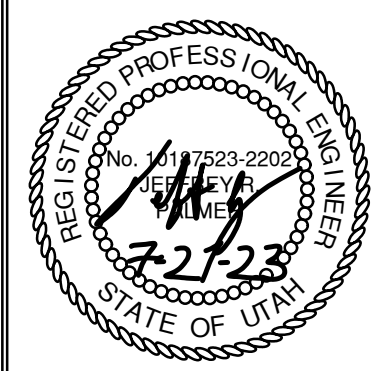
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CIVIL CONSULTANTS
1588 SOUTH MAIN STREET
SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

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

TCC JOB NUMBER: 22-126

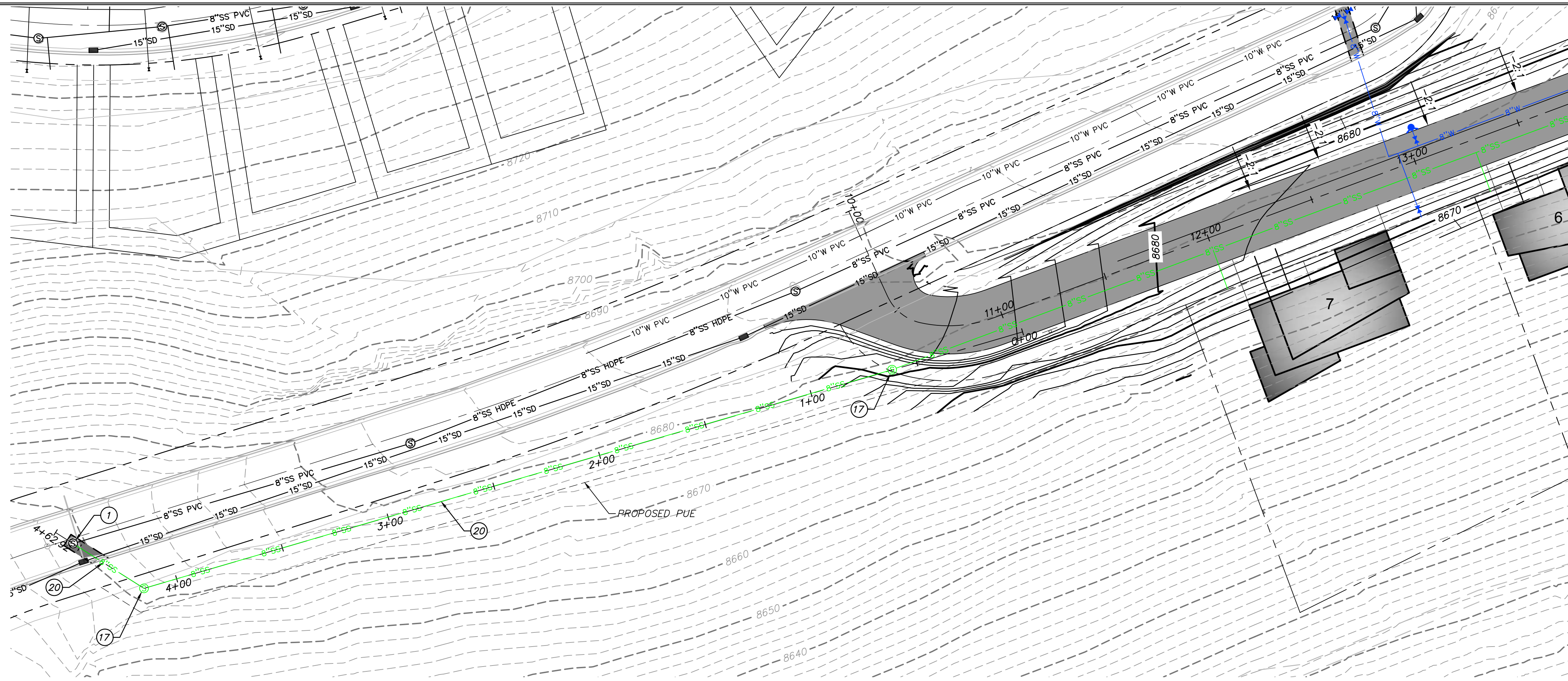
DATE: 07.21.2023



SHEET NUMBER
C500
7 OF 16

DATE: 12/22/2022

PATH: H:\SLB0793\Cadd\Job_501_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.
- 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.
- ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES, DECORATIVE SHRUBS, SOO, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
- SEE SHEETS C500 & C501 FOR VERTICAL DESIGN.

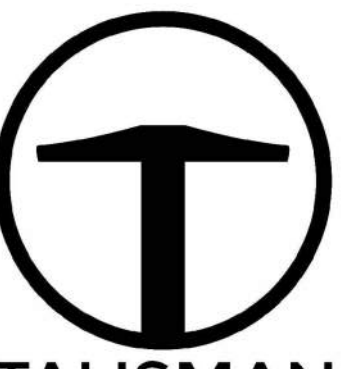
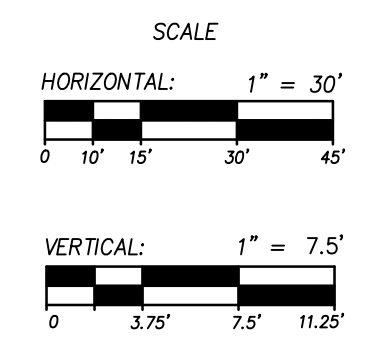
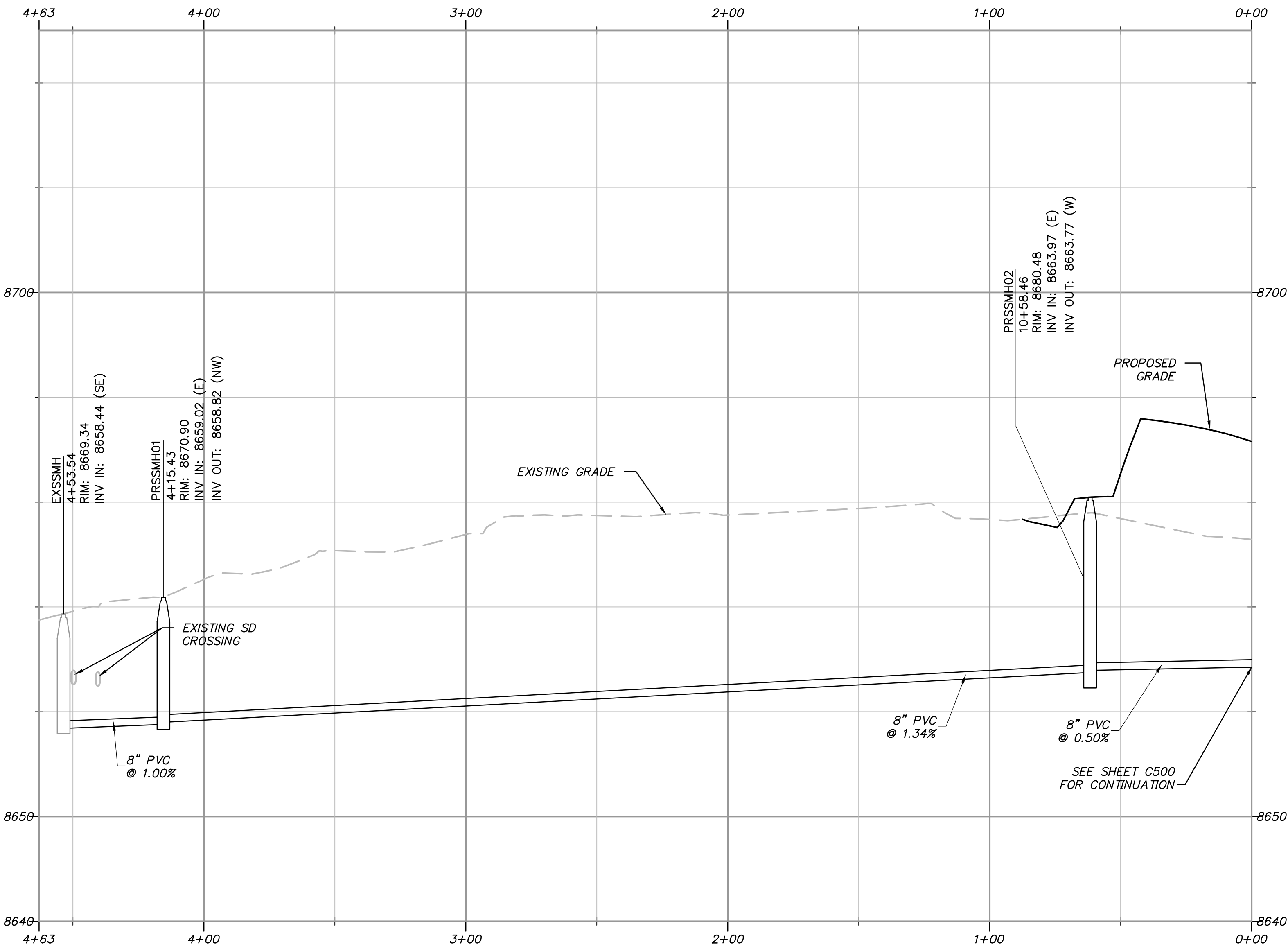
UTILITY KEYNOTES:

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 PMWSD DETAIL SS-2, SEE SHEET C702.
- ⑳ INSTALL 8" SDR-35 PVC SANITARY SEWER PIPE PER PMWSD 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:

- 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 7' MINIMUM DEPTH.



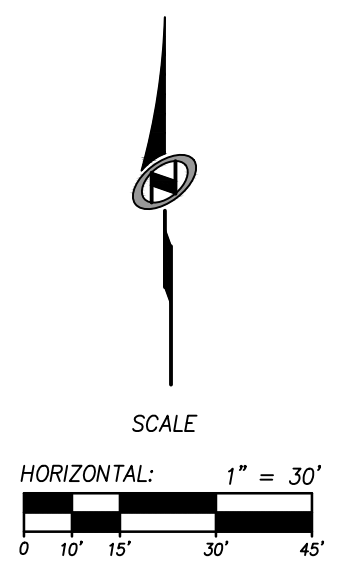
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**POWDER POINT
POWDER MOUNTAIN, UTAH
OFFSITE SEWER LINE PLAN AND PROFILE**

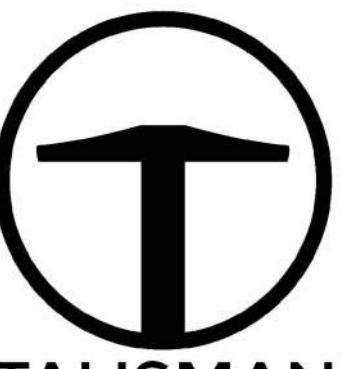
DATE: 07.21.2023

TCC JOB NUMBER: 22-126



SHEET NUMBER
C501
7 OF 16





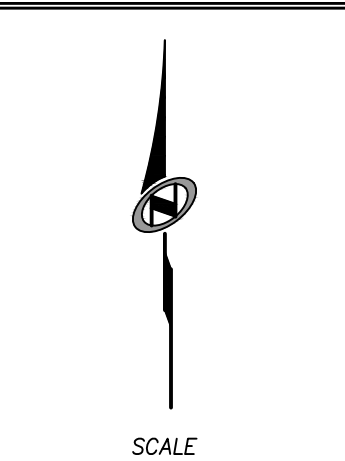
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SUITE 200
SALT LAKE CITY, UT 84115
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| BY | |
| NO. | |

DATE: 07.21.2023

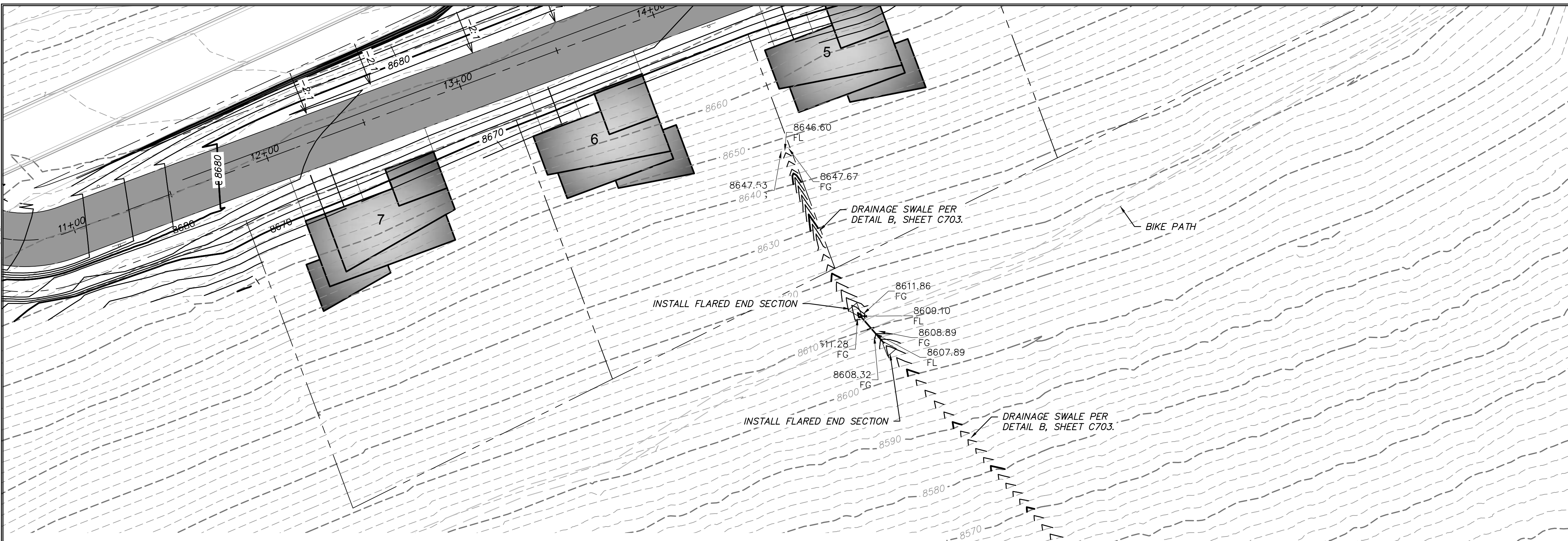
POWDER POINT
POWDER MOUNTAIN, UTAH
DRAINAGE CHANNEL PLAN & PROFILES

TCC JOB NUMBER: 22-126



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

SHEET NUMBER
C502
8 OF 16



GRADING GENERAL NOTES:

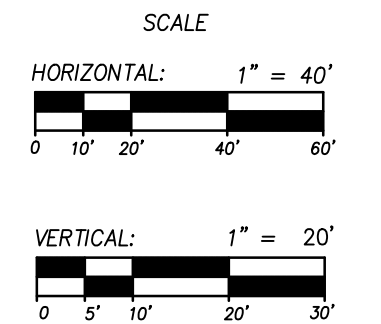
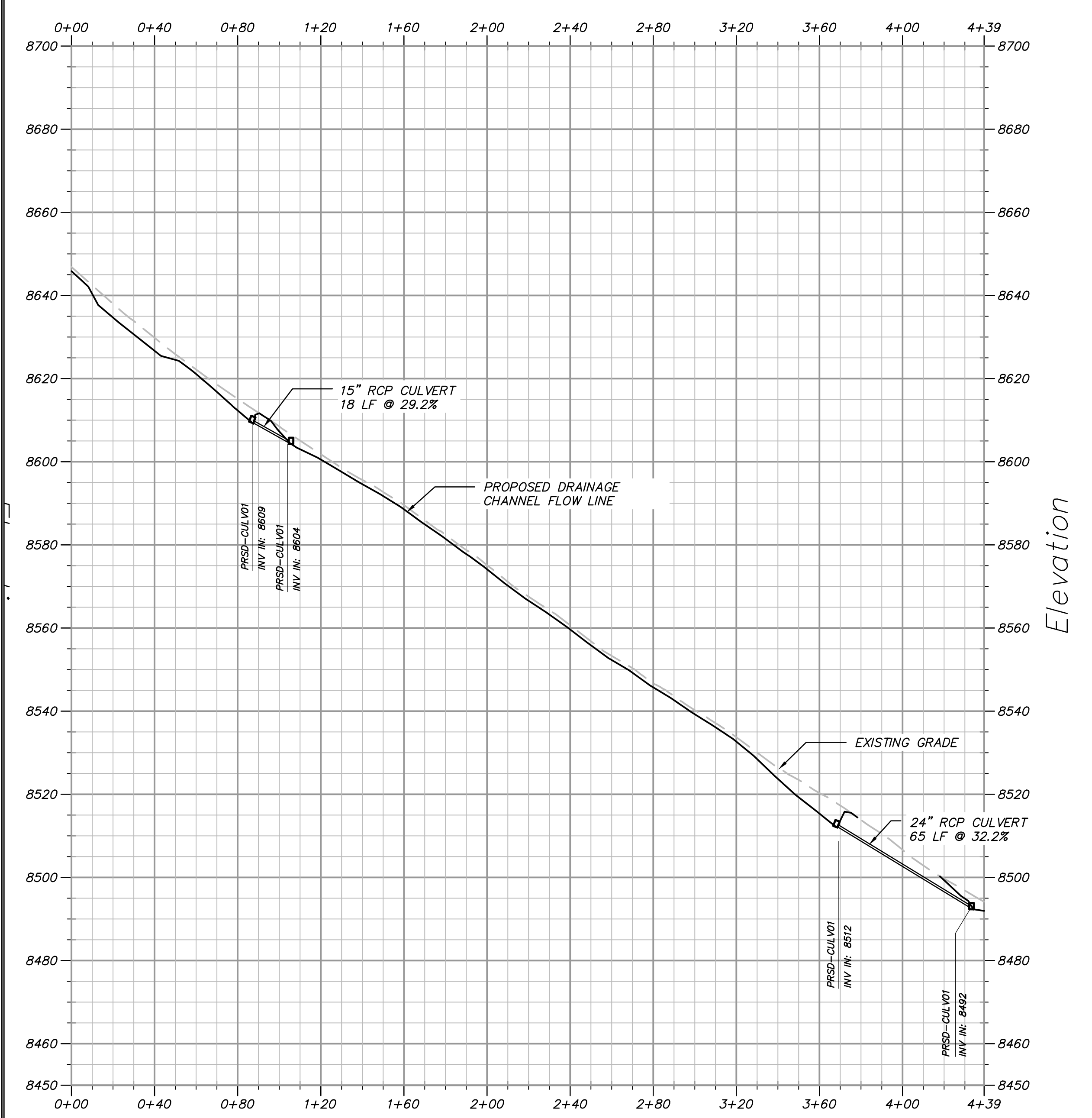
- SEE SHEET C500 FOR PLAN AND PROFILE OF ROAD.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING THEM WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED 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.
- LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN.
- 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.

ABBREVIATIONS:

| | |
|-----|--------------------------|
| BS | BOTTOM OF STAIRS |
| BW | BOTTOM OF WALL |
| EX | EXISTING GRADE |
| EP | EDGE OF PAVEMENT |
| FFE | 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 PROPOSED ELEVATION CONTOURS

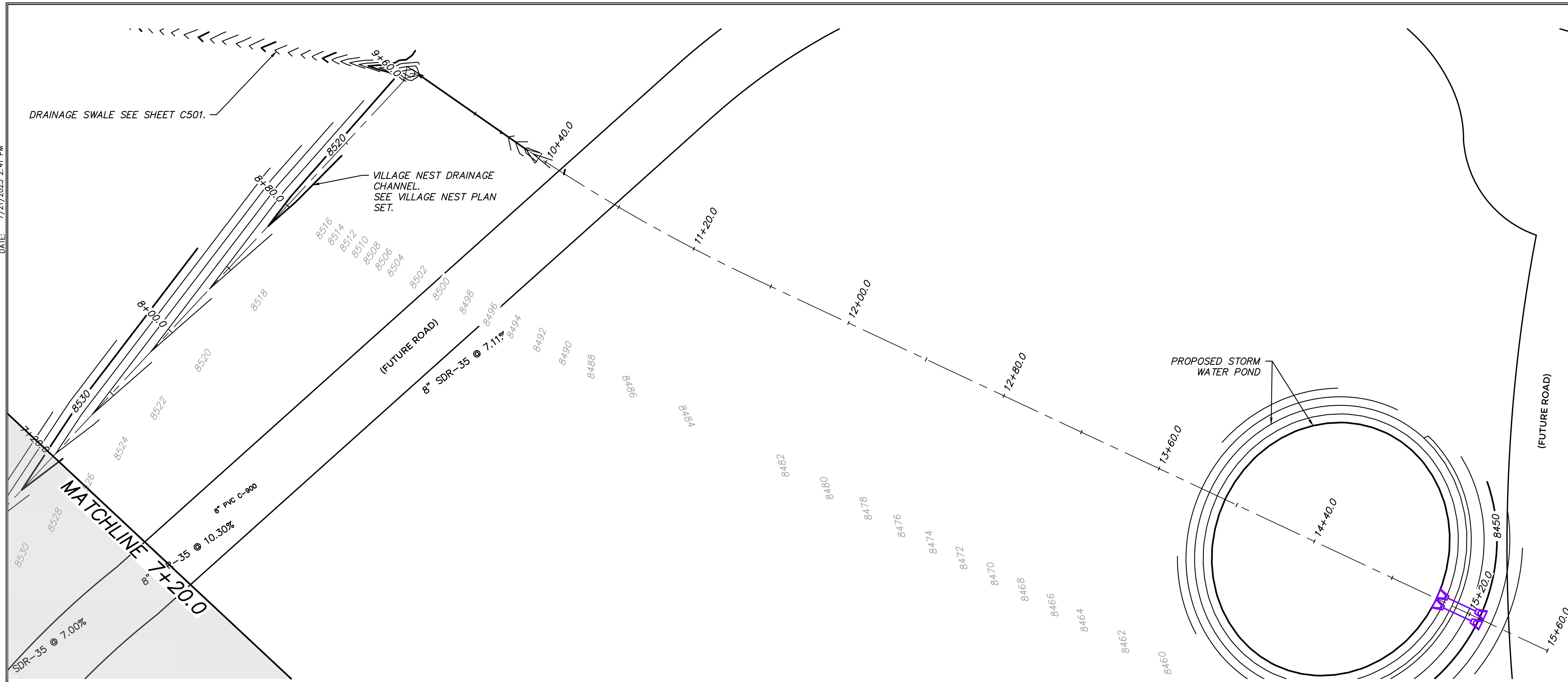


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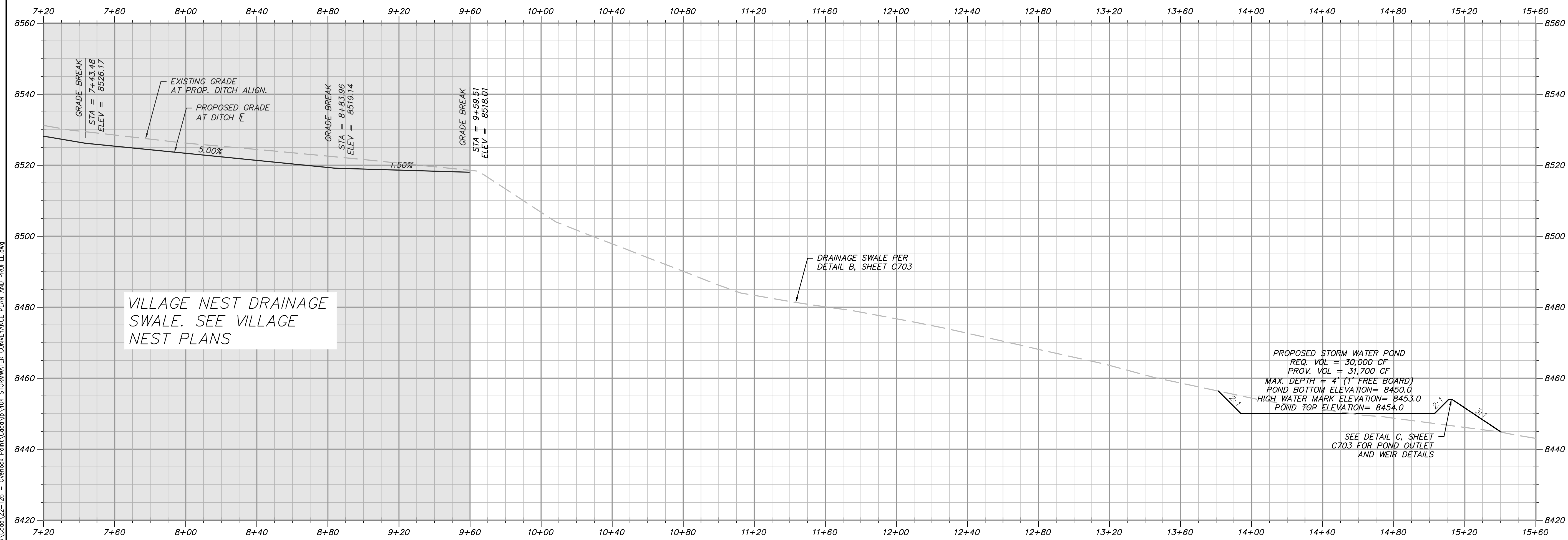


GRADING GENERAL NOTES:

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.
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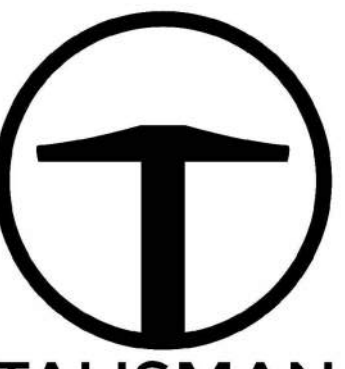
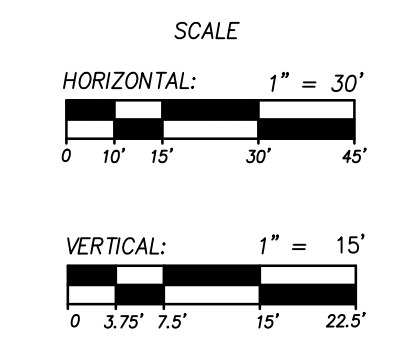
- - - - - EXISTING ELEVATION CONTOURS
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 - - - - - EXISTING ELEVATION CONTOURS
 - - - - - PROPOSED ELEVATION CONTOURS

STORMWATER CONVEYANCE DITCH AND POND



PROPOSED STORM WATER POND
 REQ. VOL = 30,000 CF
 PROV. VOL = 31,700 CF
 MAX. DEPTH = 4" (1" FREE BOARD)
 POND BOTTOM ELEVATION= 8450.0
 HIGH WATER MARK ELEVATION= 8453.0
 POND TOP ELEVATION= 8454.0

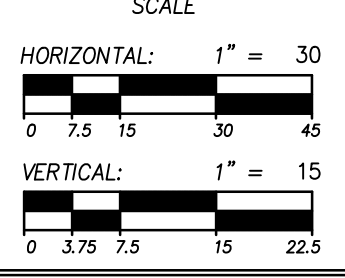
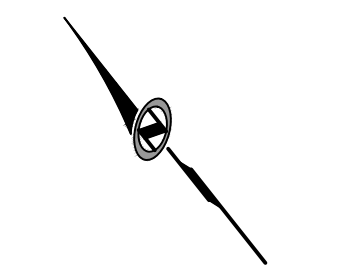
SEE DETAIL C, SHEET
 C703 FOR POND OUTLET
 AND WEIR DETAILS



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POWDER POINT
POWDER MOUNTAIN, UTAH
STORMWATER CONVEYANCE PLAN AND PROFILE
 TCC JOB NUMBER: 22-126
 DATE: 07.21.2023

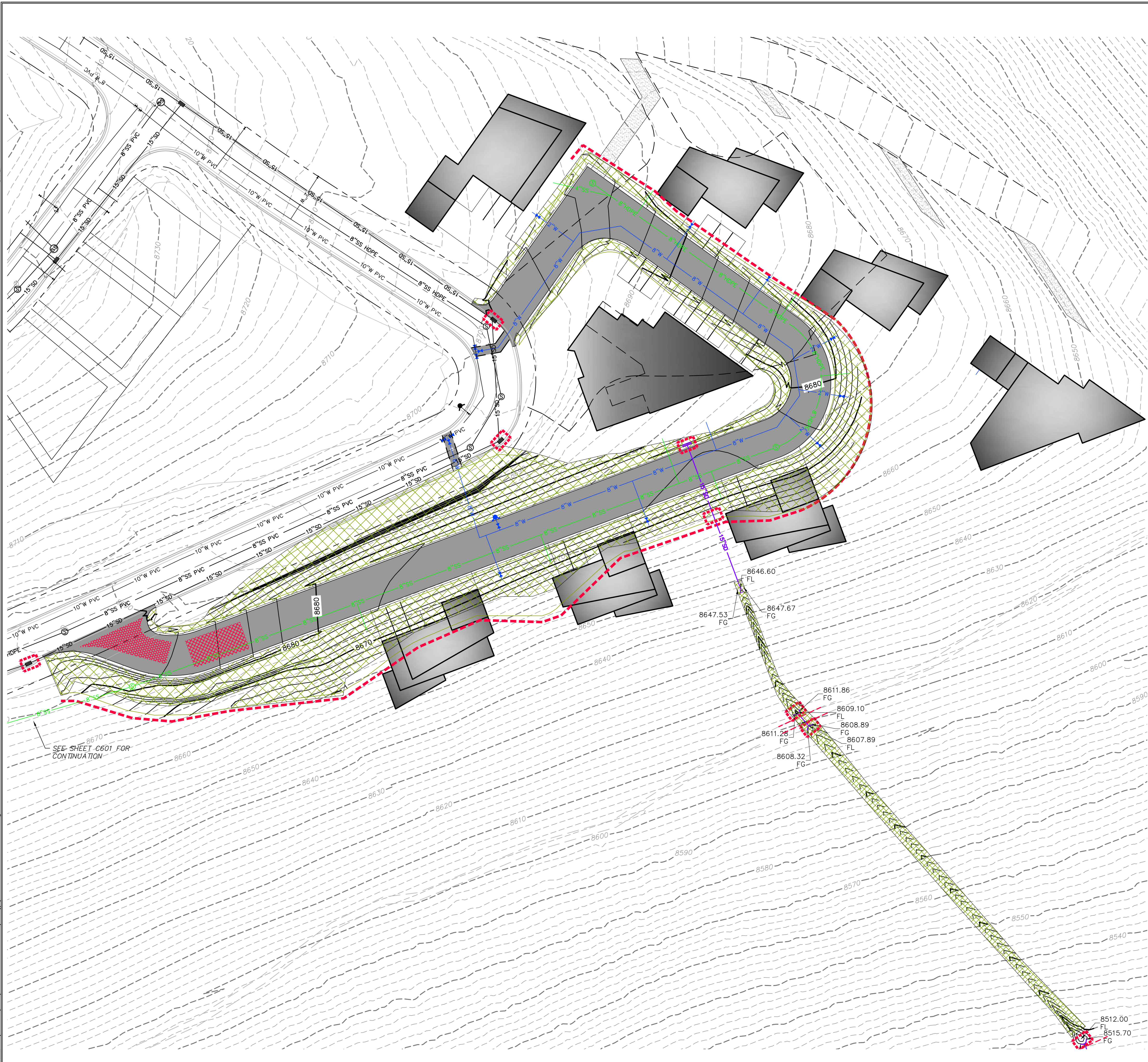


SHEET NUMBER
C503
 9 OF 16



DATE: 12/22/2022

PATH: H:\SLEB07933\CodeA\22-126 - Overlook Point\CodeA\1600 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:

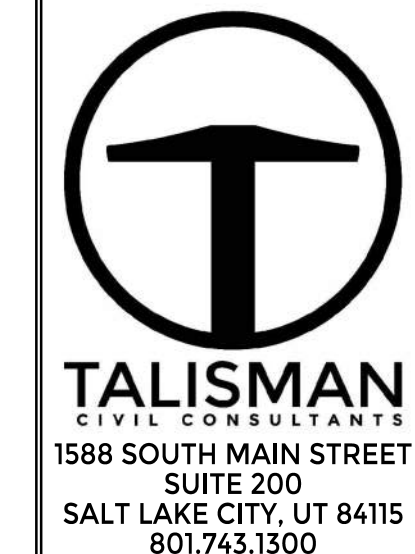
ANY DISTURBED AREAS AND/OR EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- 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.

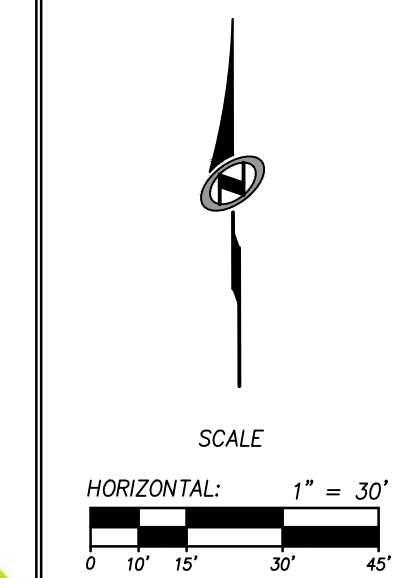
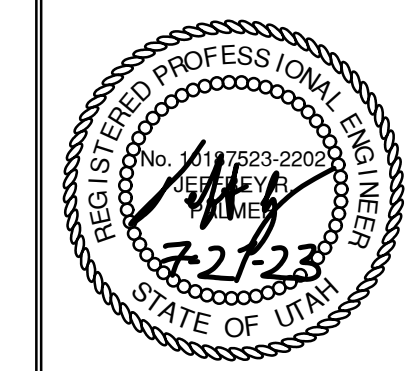


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DATE: 07.21.2023

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

TCC JOB NUMBER: 22-126

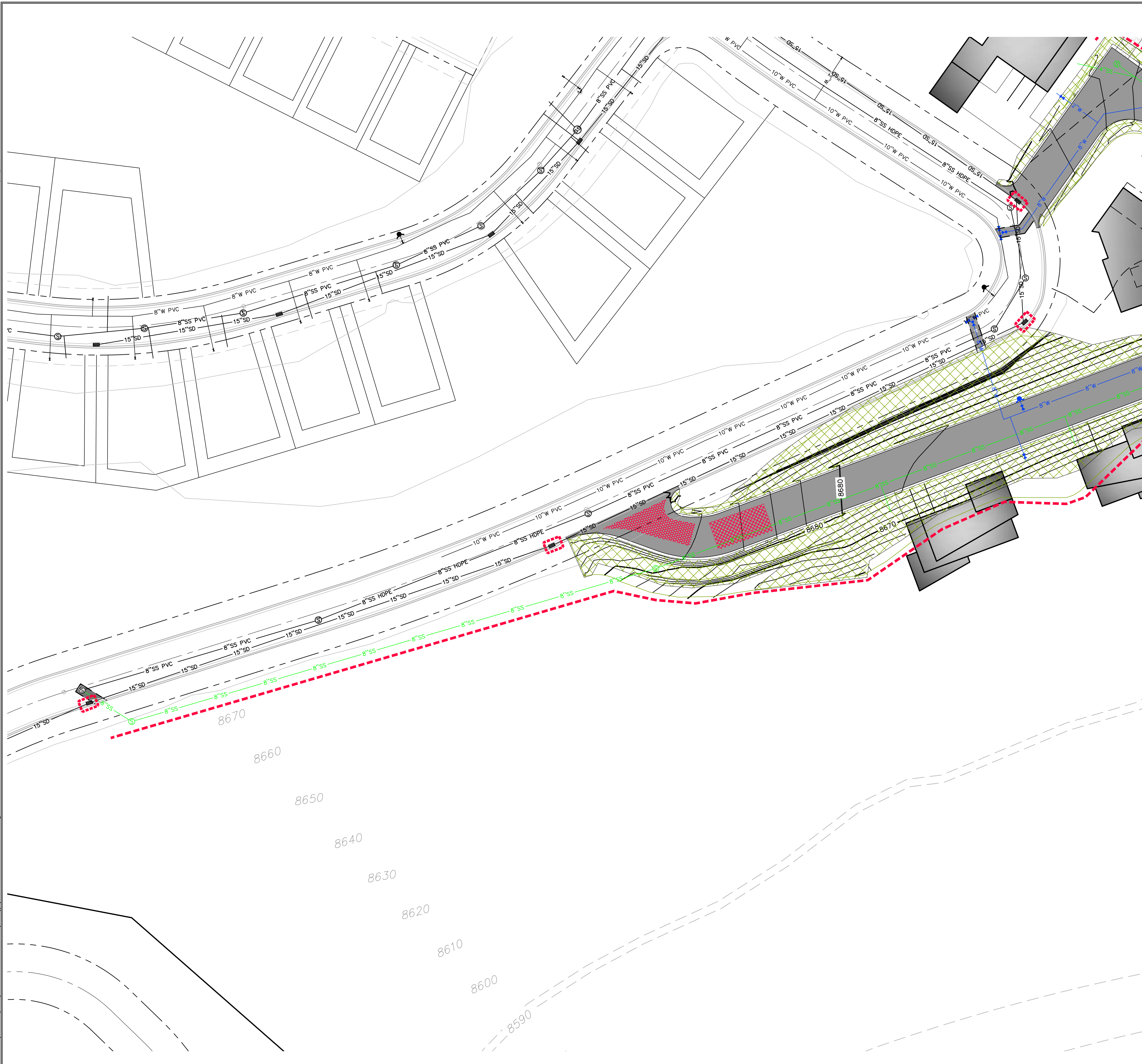


SHEET NUMBER
C600
11 OF 16



DATE: 12/22/2022

PATH: H:\SLB0783\Cadd\22-126 - Overlook Point\Cadd\Job_V601 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.

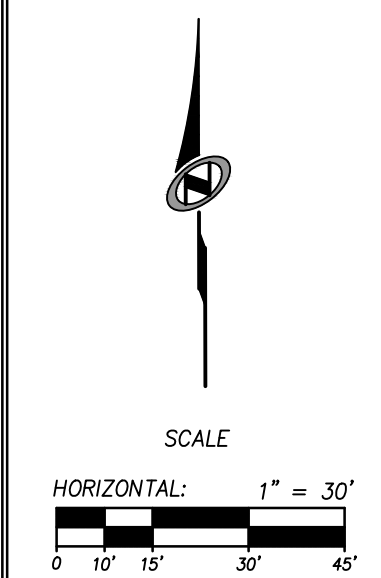
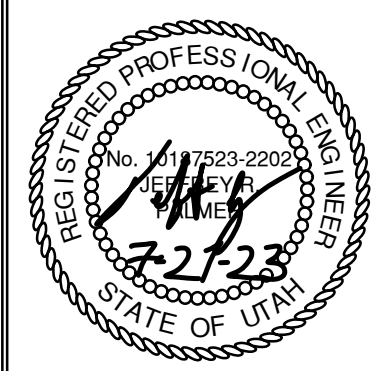


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POWDER POINT
POWDER MOUNTAIN, UTAH
OFFSITE EROSION CONTROL PLAN

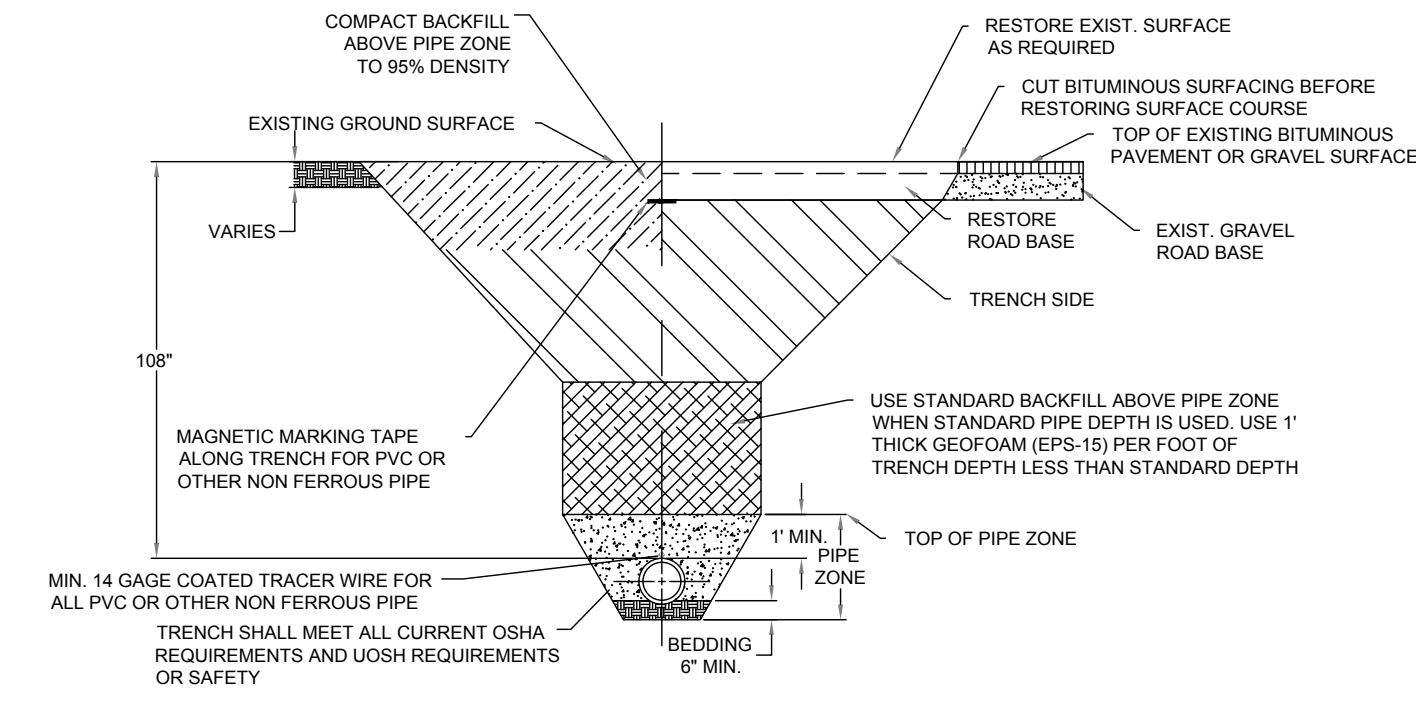
TCC JOB NUMBER: 22-126 DATE: 07.21.2023



SHEET NUMBER
C601
 11 OF 16



DATE: 12/22/2022



SAFE BEARING LOADS

| SOIL TYPE | SAFE BEARING LOAD (PSF) |
|--|-------------------------|
| SAND | 1000 |
| SAND & GRAVEL | 1500 |
| SAND & GRAVEL CEMENTED WITH CLAY SHALE | 2000 |
| | 5000 |

SAFE BEARING LOAD FORMULA

THRUST BLOCK AREA AGAINST FITTING / THRUST ON SAFE BEARING AREA OF SOIL (TRENCH WALL) (SQUARE FEET)

THRUST ON FITTINGS

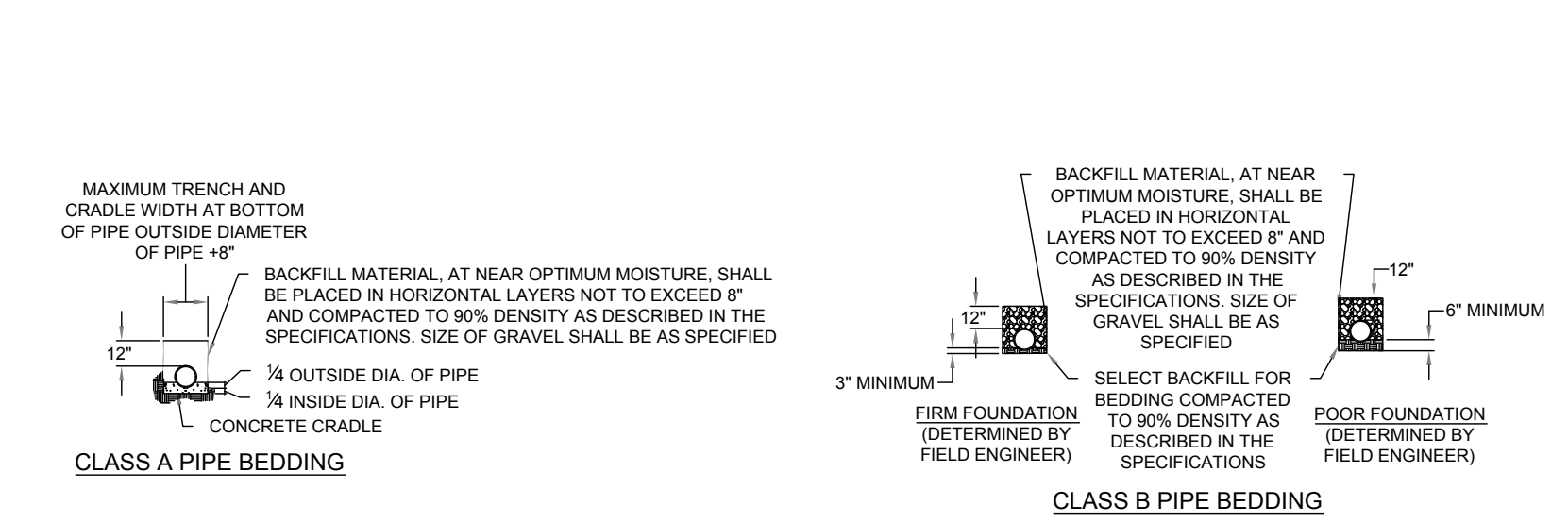
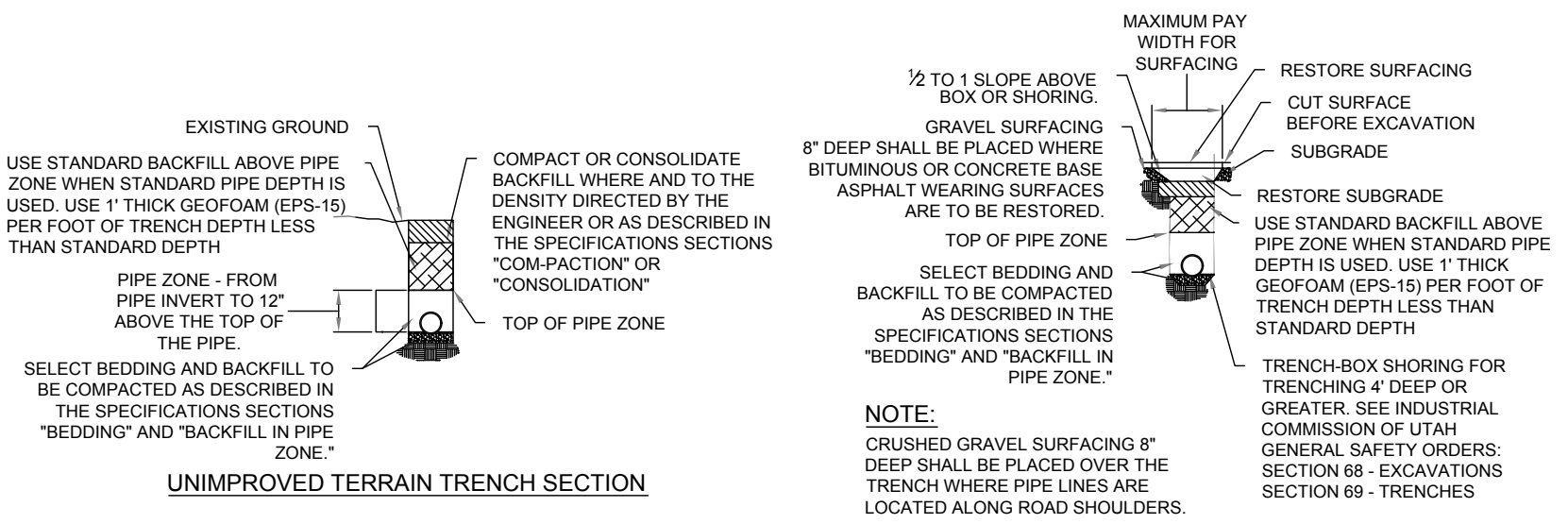
POUNDS @ 1" POUND PER SQUARE INCH OF WATER PRESSURE*

| PIPE SIZE | TEES | 90° BENDS | 45° BENDS | 22.5° BENDS |
|-----------|-------|-----------|-----------|-------------|
| 4" | 18.5 | 28.1 | 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 | 162.8 | 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 POLY-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.



| PIPE DIAMETER | MINIMUM WIDTH | MAXIMUM WIDTH |
|---------------|---------------|---------------|
| 4" | 1'-0" | 2'-0" |
| 6" | 1'-0" | 2'-0" |
| 8" | 1'-8" | 2'-8" |
| 10" | 2'-0" | 3'-0" |
| 12" | 2'-0" | 3'-0" |
| 16" | 2'-6" | 3'-6" |
| 18" | 2'-6" | 3'-6" |

WATERLINE TRENCH DETAIL

DATE: APRIL 2021

DRAWING NAME: DW-1

DRAWN BY: BRJUM

CHECKED/ APPROVED:

GILSON ENGINEERING
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PHONE: (801) 571-9414 FAX: (801) 571-9449
WWW.POWMOUNTAINUTAH.COM

298 24th STREET, SUITE 150, OGDEN, UT 84401
PHONE: (801) 773-1191
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PIPE BEDDING SPECIFICATIONS

DATE: APRIL 2021

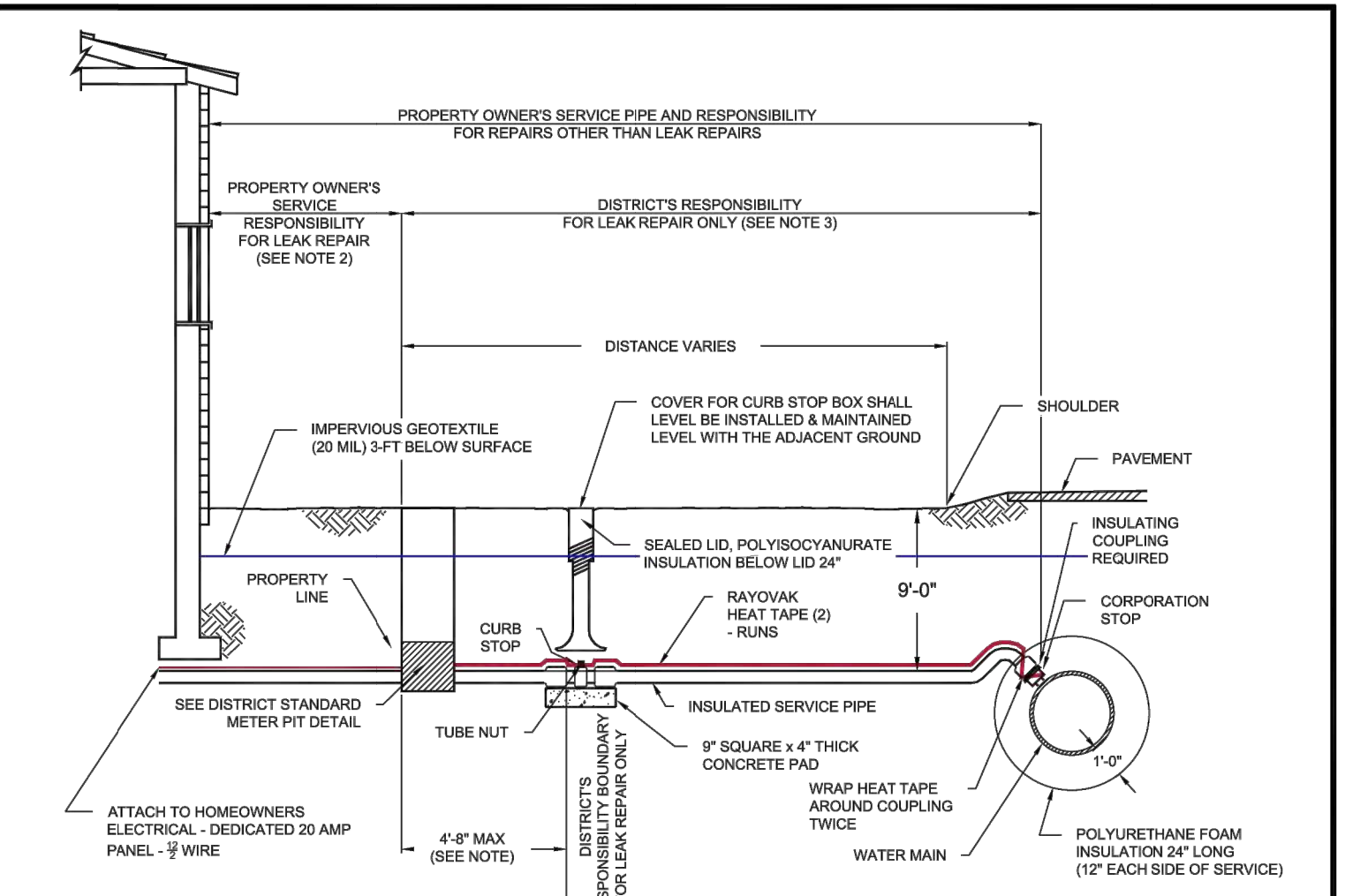
DRAWING NAME: DW-2

DRAWN BY: BRJUM

CHECKED/ APPROVED:

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- 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

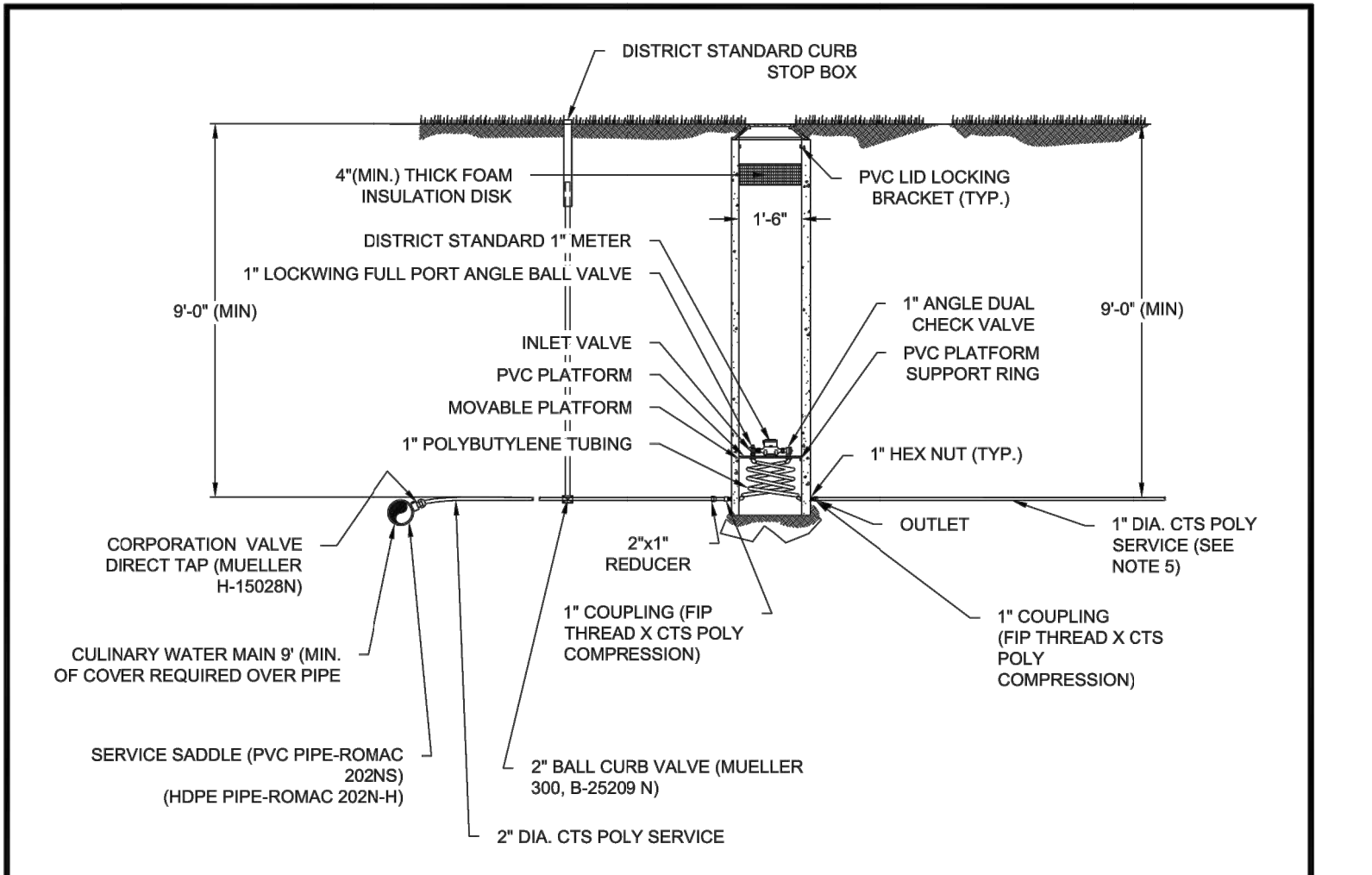
DRAWN BY: BRJUM

CHECKED/ APPROVED:

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POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT



- NOTES:**
1. METER BOXES SHALL BE 18" DIA. BY 96" DEEP MUELLER-THERMAL-COIL PVC BOXES FOR 1" SINGLE METERS (MUELLER 330CS1896FBBSN)
 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: BRJUM

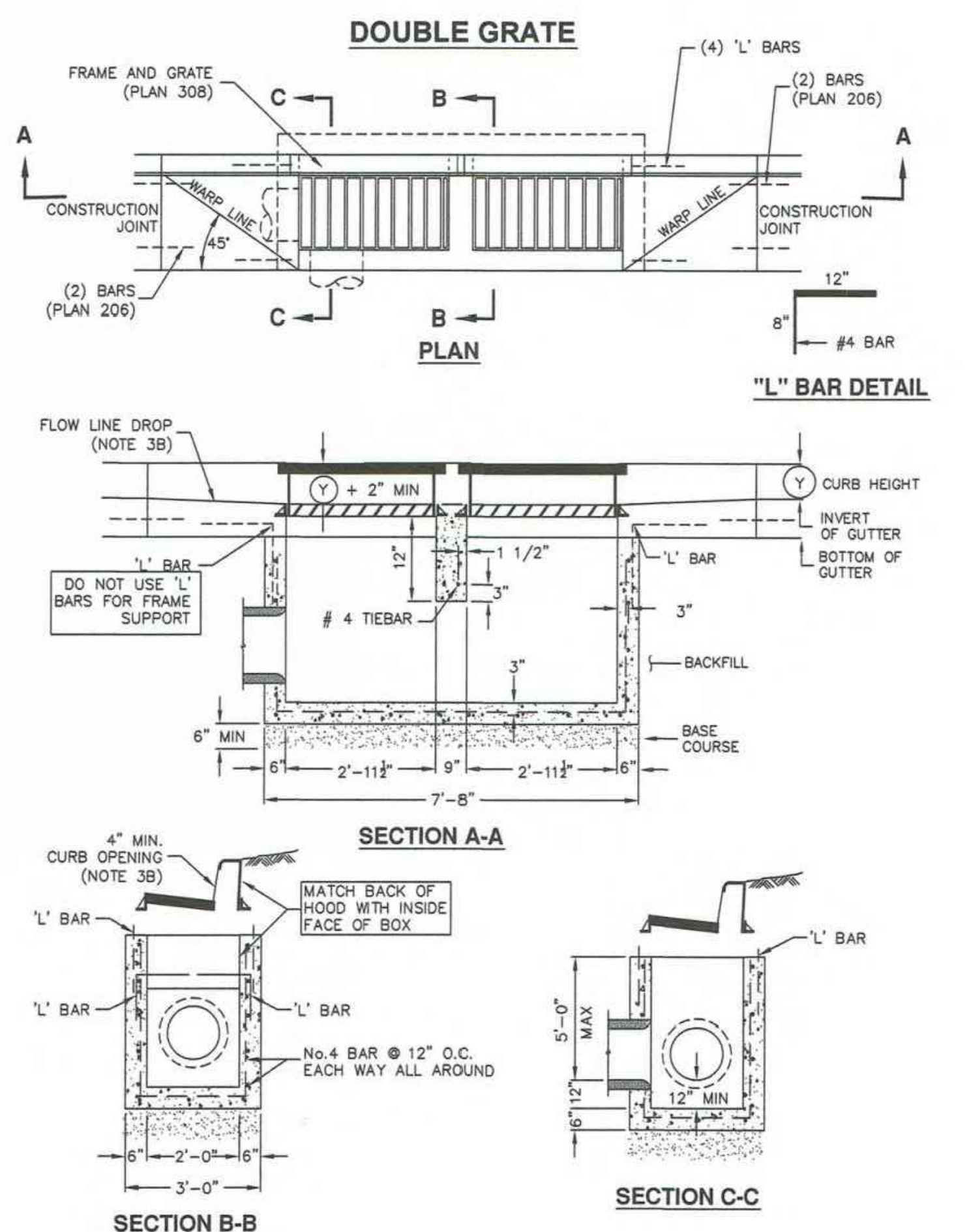
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POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT

315.2



APWA Utah Chapter

Catch basin

Plan 315.2

September 2010



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SUITE 200
SALT LAKE CITY, UT 84115
801.743.1300

| REV. | DATE | BY | NO. |
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| | | | |

DATE: 07.21.2023

**POWDER POINT
POWDER MOUNTAIN, UTAH
DETAILS**

TCC JOB NUMBER:



811
CALL BEFORE YOU DIG
SAFE DIGGING PRACTICES

SHEET NUMBER
C700

12 OF 16

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

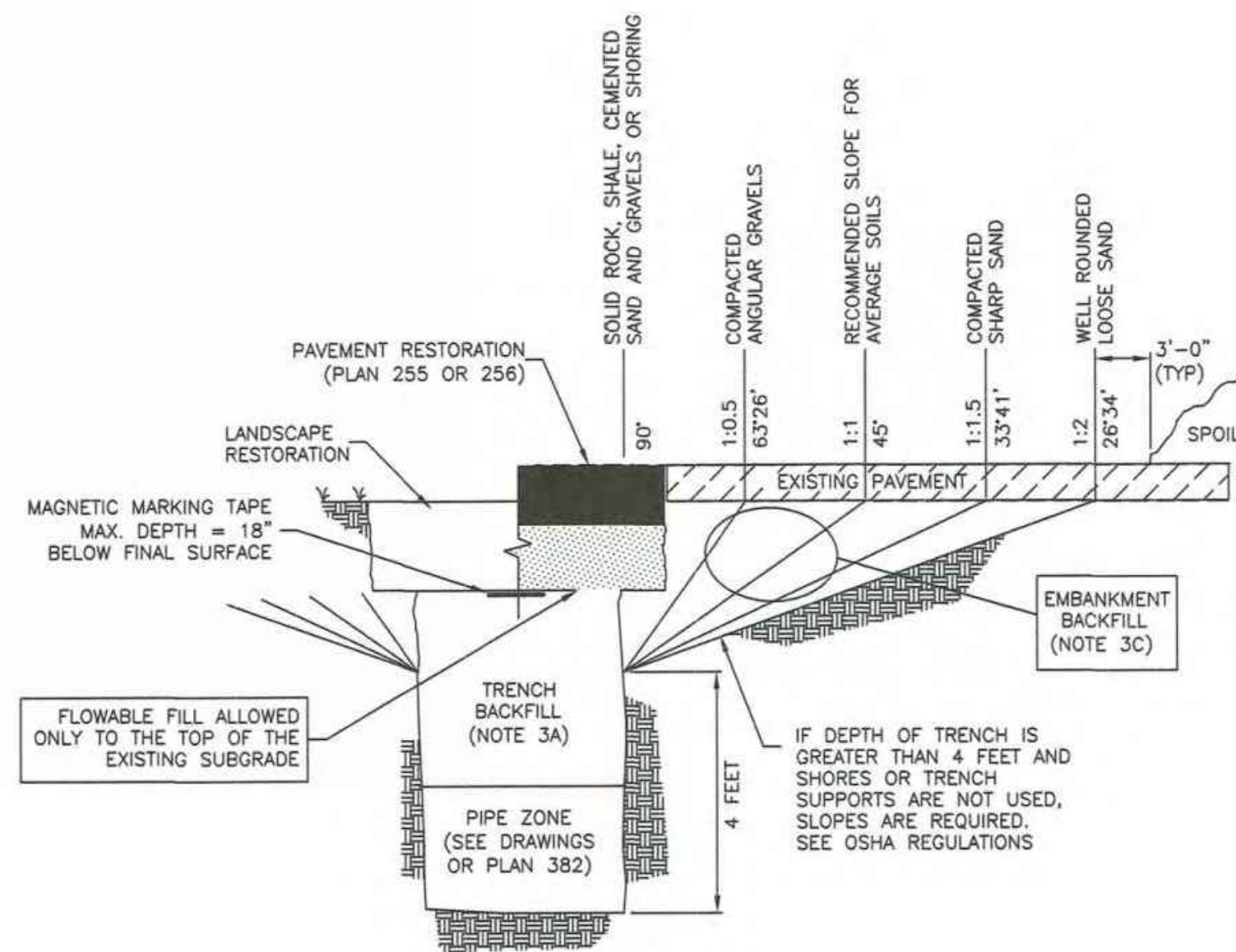
- 1. GENERAL
 - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
- 2. PRODUCTS
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: 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.



Trench backfill

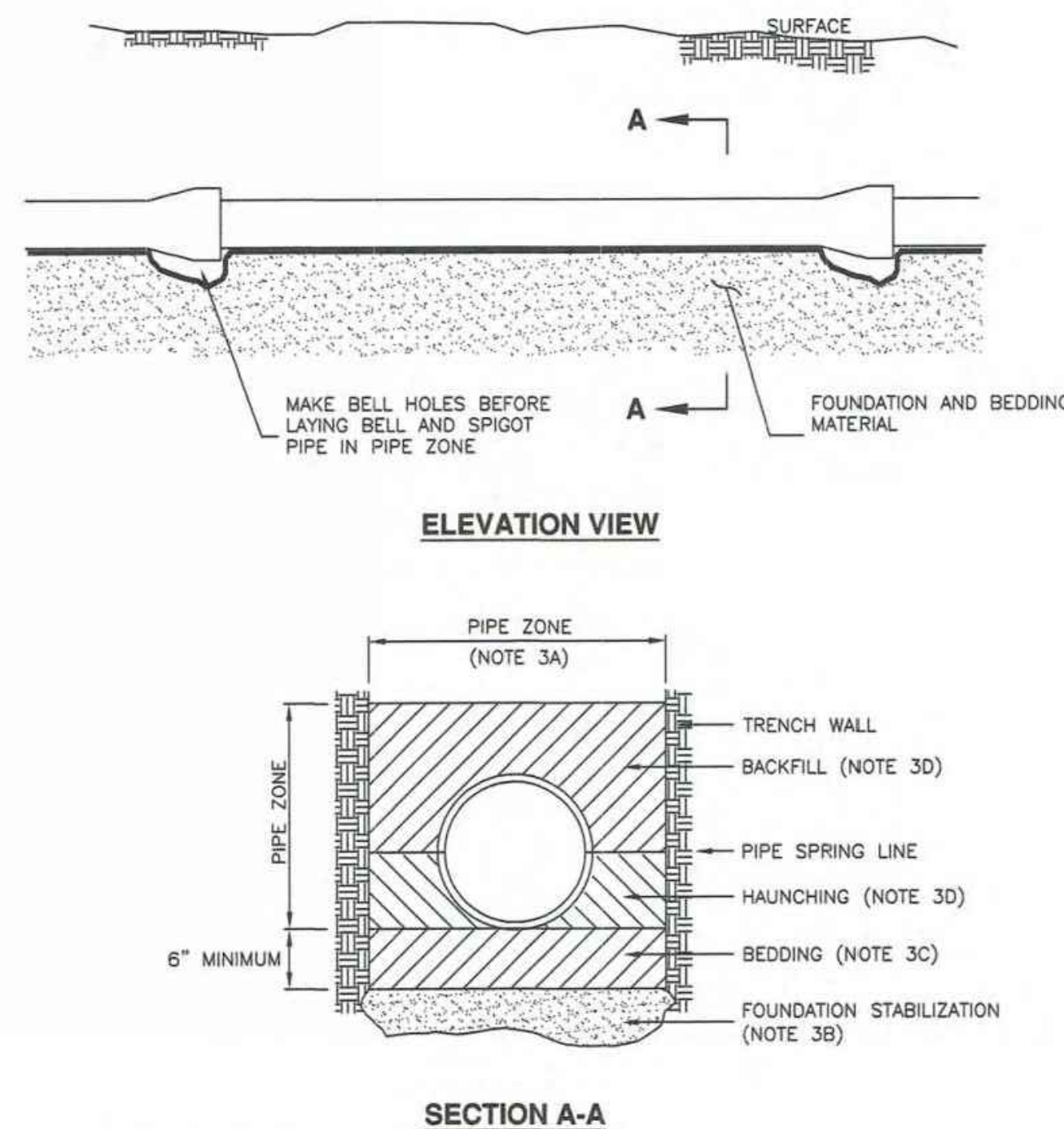
381

July 2016



Pipe zone backfill

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

ROUND WITH FLARE

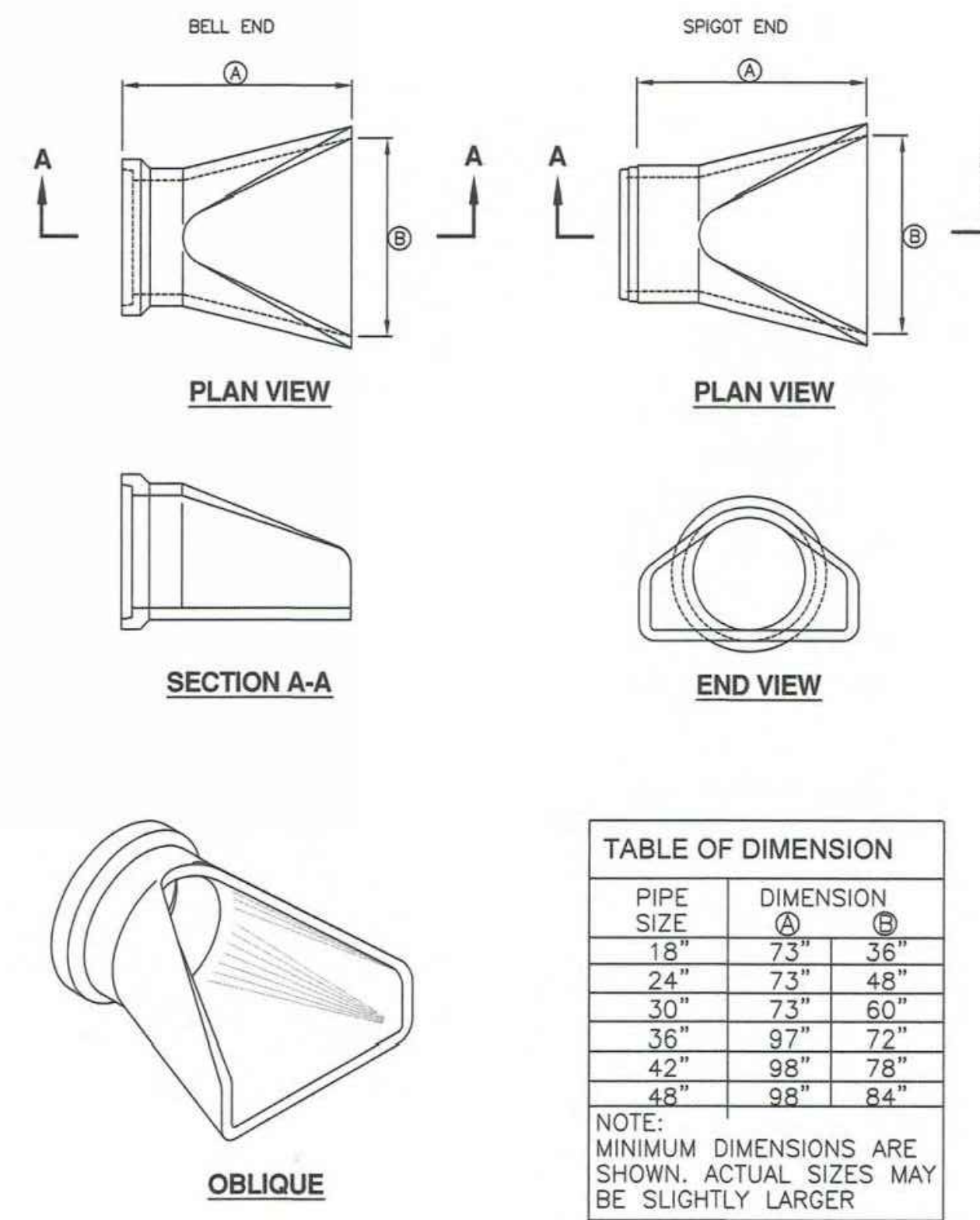


TABLE OF DIMENSION

| PIPE SIZE | DIMENSION (A) | (B) |
|-----------|---------------|-----|
| 18" | 73" | 36" |
| 24" | 73" | 48" |
| 30" | 73" | 60" |
| 36" | 97" | 72" |
| 42" | 98" | 78" |
| 48" | 98" | 84" |

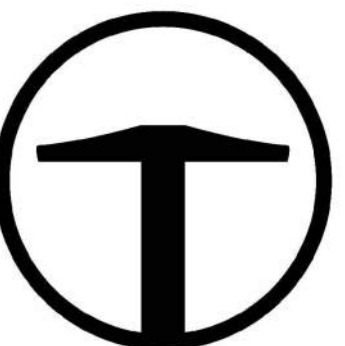
NOTE: MINIMUM DIMENSIONS ARE SHOWN. ACTUAL SIZES MAY BE SLIGHTLY LARGER



Pipe outfall

323.1

November 2010

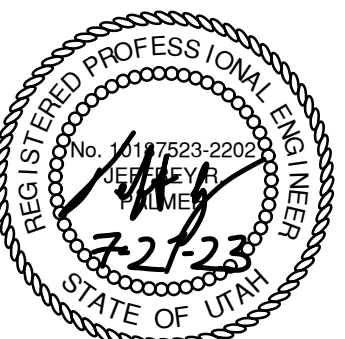


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POWDER POINT
 POWDER MOUNTAIN, UTAH
 DETAILS

DATE: 07.21.2023

TCC JOB NUMBER: 22-126



SHEET NUMBER

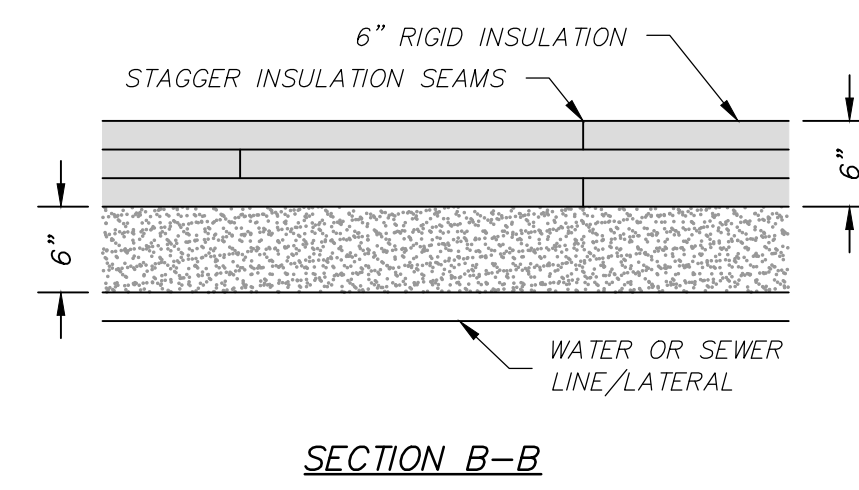
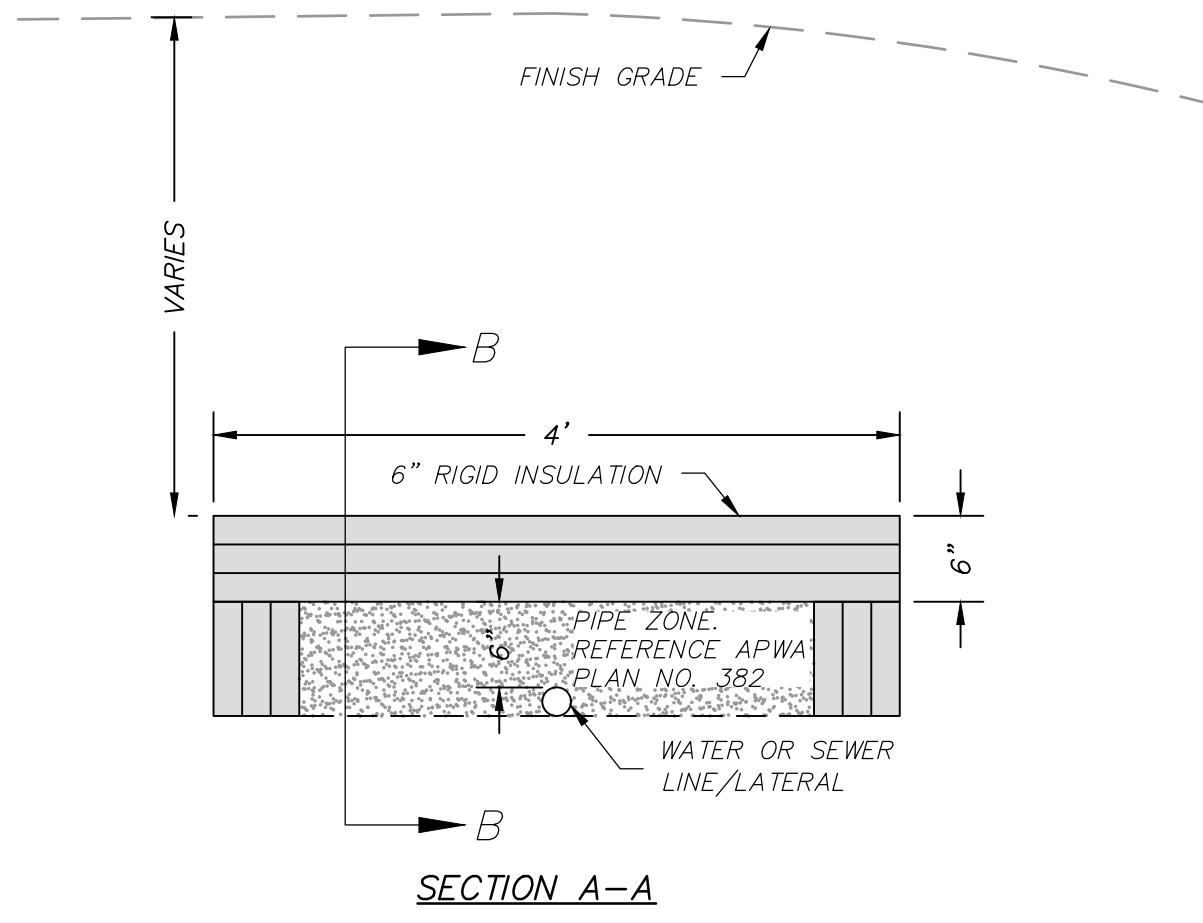
C701

13 OF 16

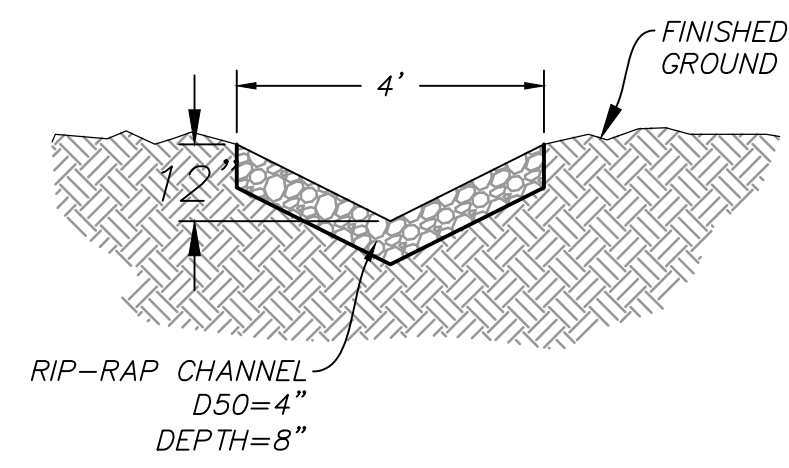


DATE: 12/22/2022

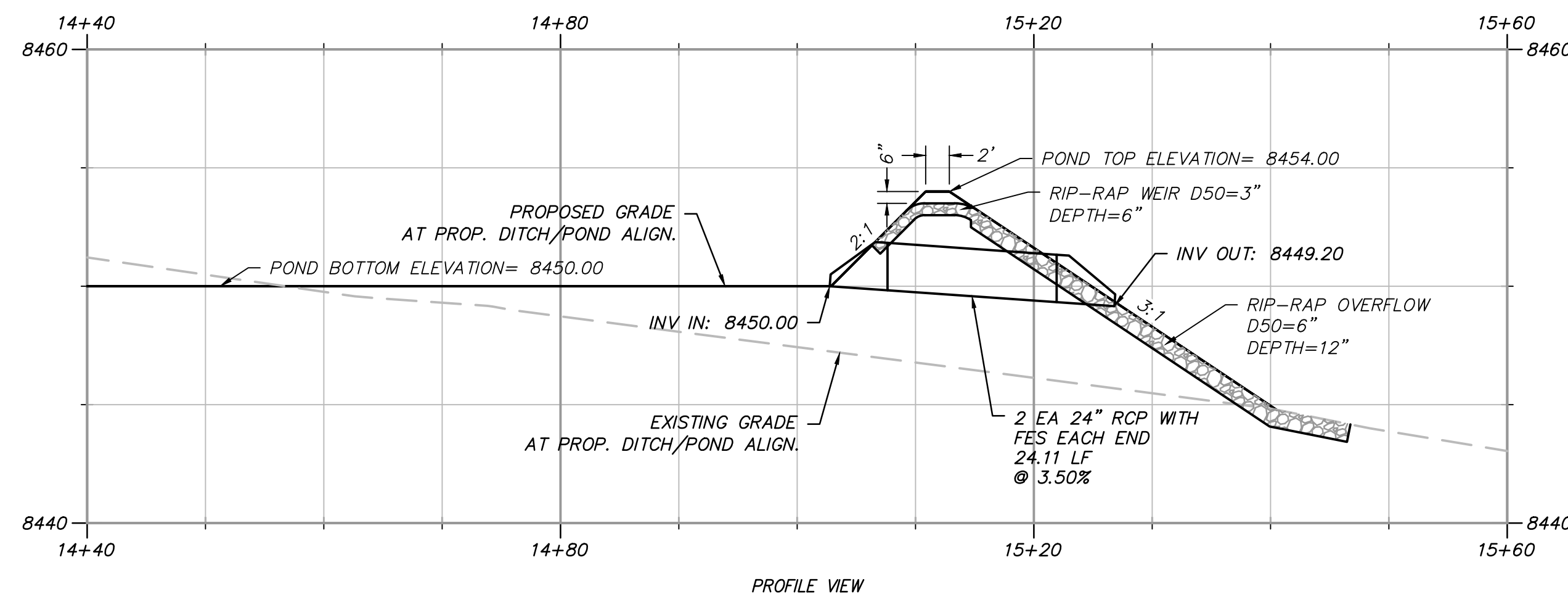
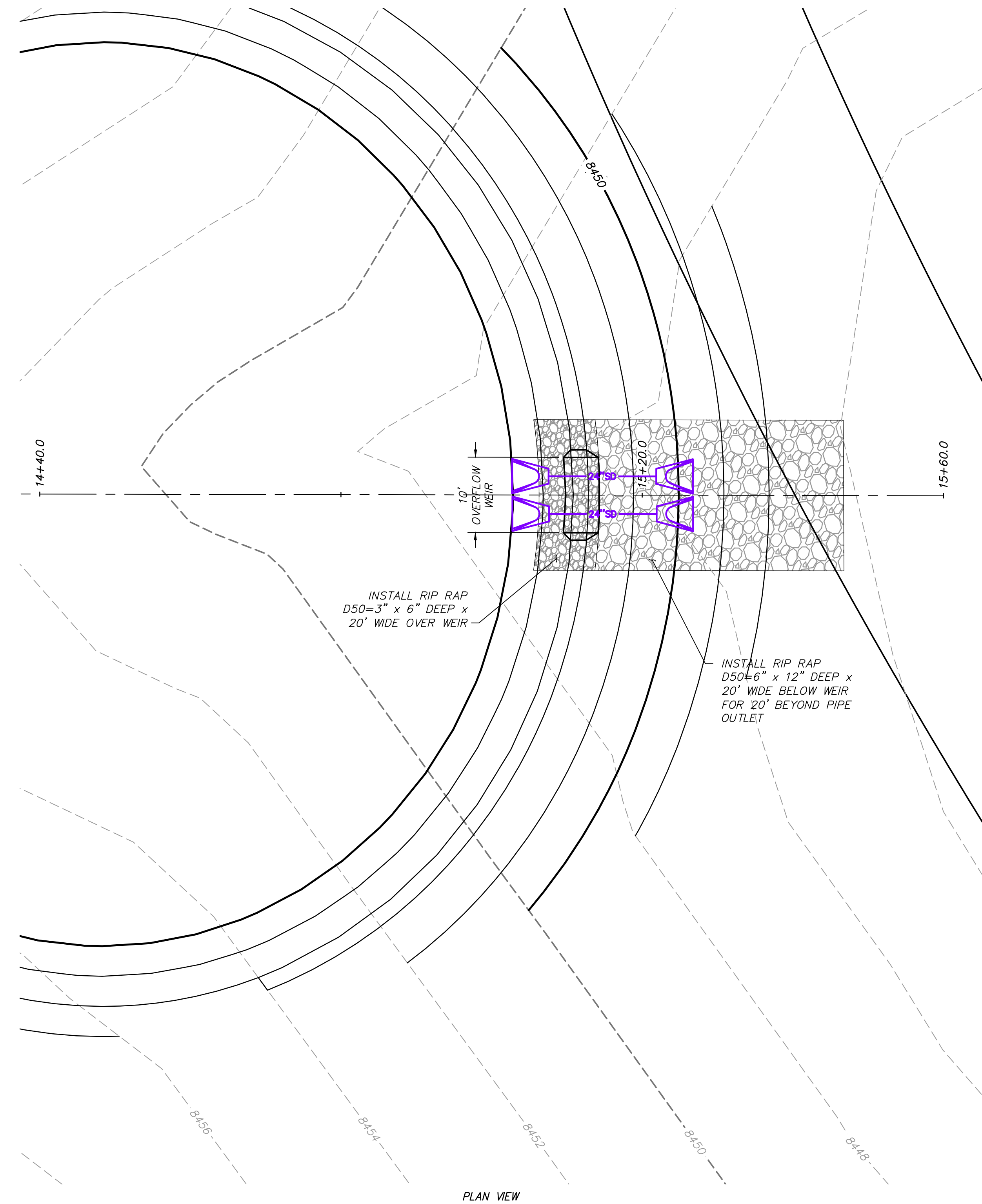
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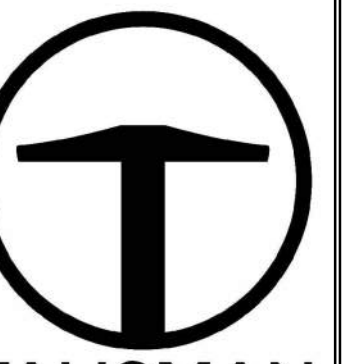
PIPE INSULATION
SCALE: N.T.S.



DRAINAGE DITCH DETAIL
SCALE: N.T.S.



DETENTION POND OUTLET DETAIL
SCALE: N.T.S.



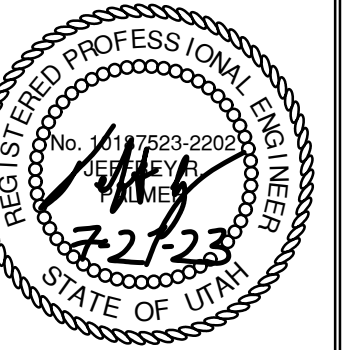
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DATE: 07.21.2023

POWDER POINT
POWDER MOUNTAIN, UTAH
DETAILS

TCC JOB NUMBER: 22-126



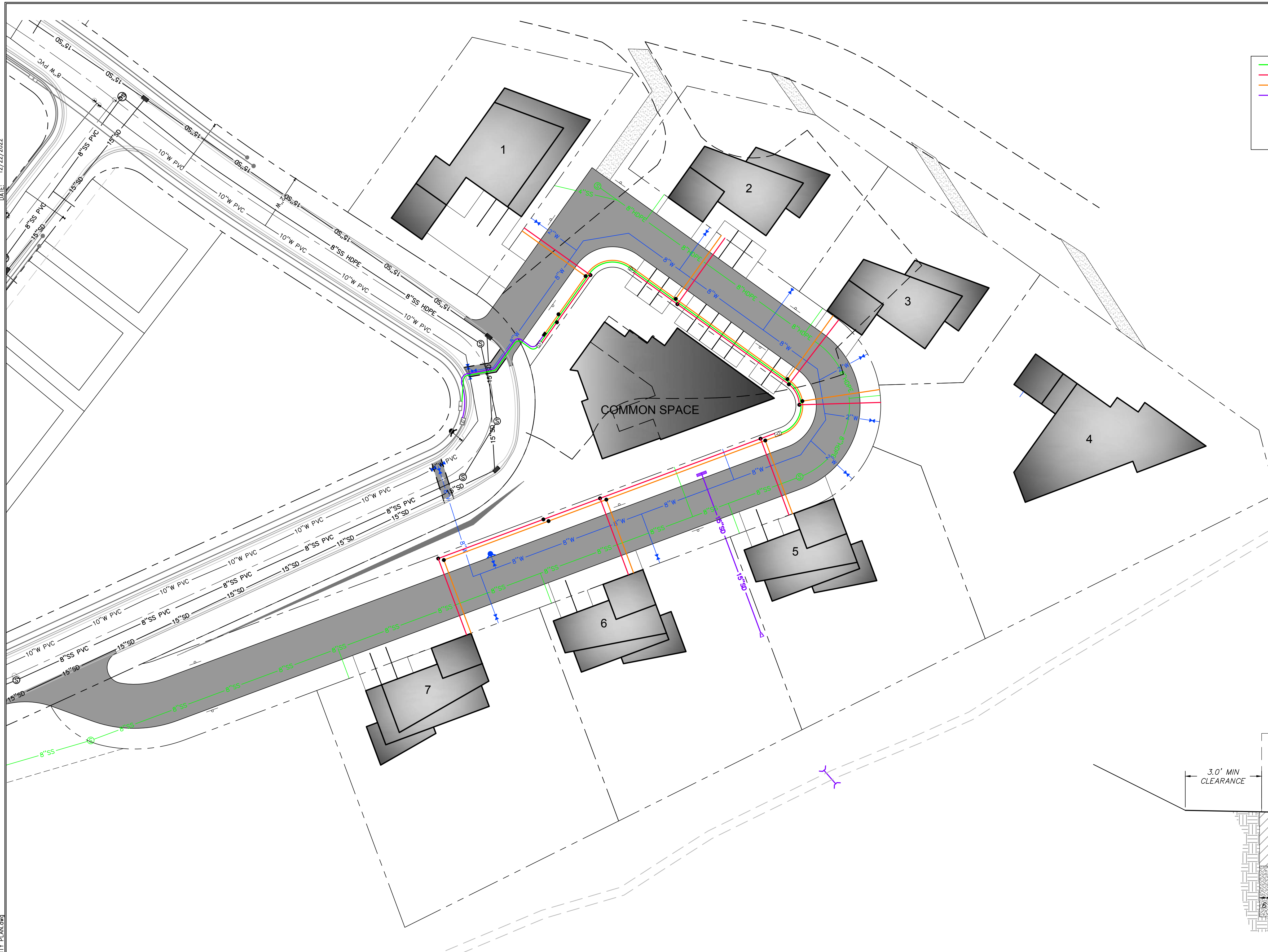
SHEET NUMBER

C703

15 OF 16

DATE: 12/22/2022

PATH: H:\SLEB0793\Cadd\122-126 - Overlook Point\Cadd\122-126 DRY UTILITY PLAN.dwg



LEGEND

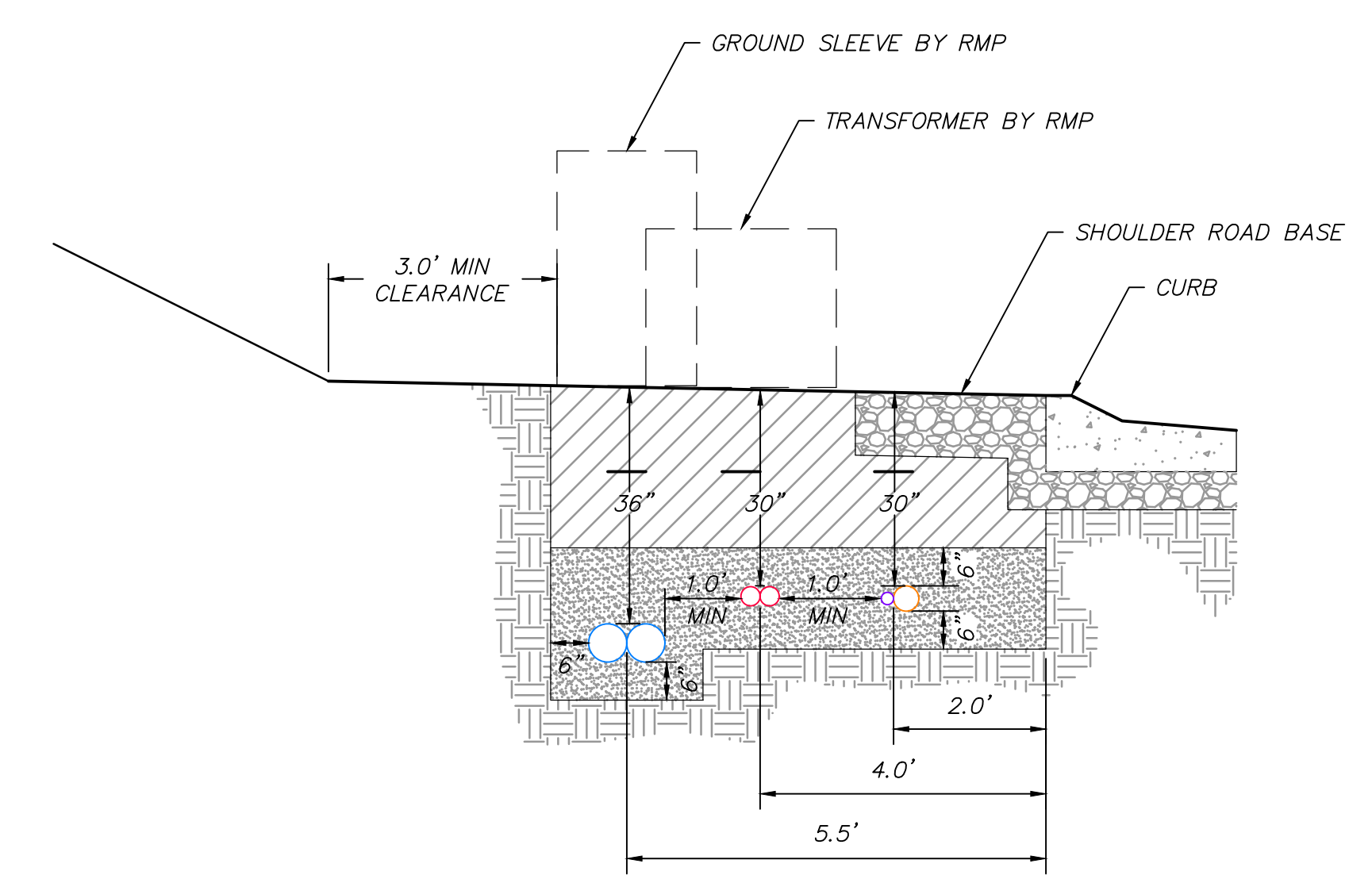
- 3" CONDUIT (PRIMARY ELECTRICAL, 36" COVER)
- 3" CONDUIT (SECONDARY ELECTRICAL, 30" COVER)
- 2" CONDUIT (COMMUNICATIONS, 30" COVER)
- 4" CONDUIT (COMMUNICATIONS, 30" COVER)
- FUTURE RMP TRANSFORMER
- FUTURE RMP SERVICE BOX
- 17"x30" COMM BOX (OLDCASTLE POLYMER 1730)
- 10" COMM BOX (CARSON 910)

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

TCC JOB NUMBER: 22-126 DATE: 07.21.2023



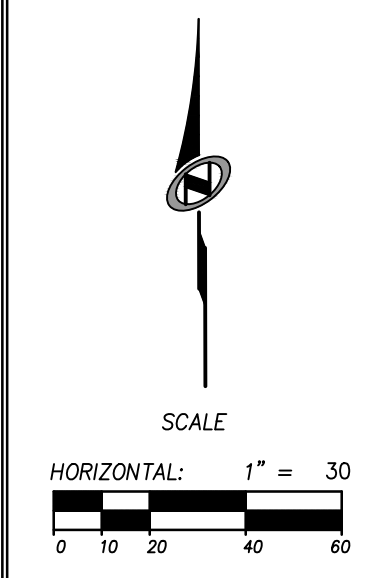
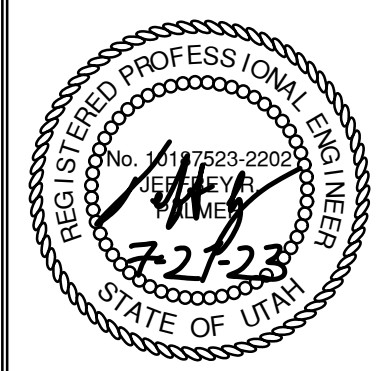
NOTES:

- * 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

