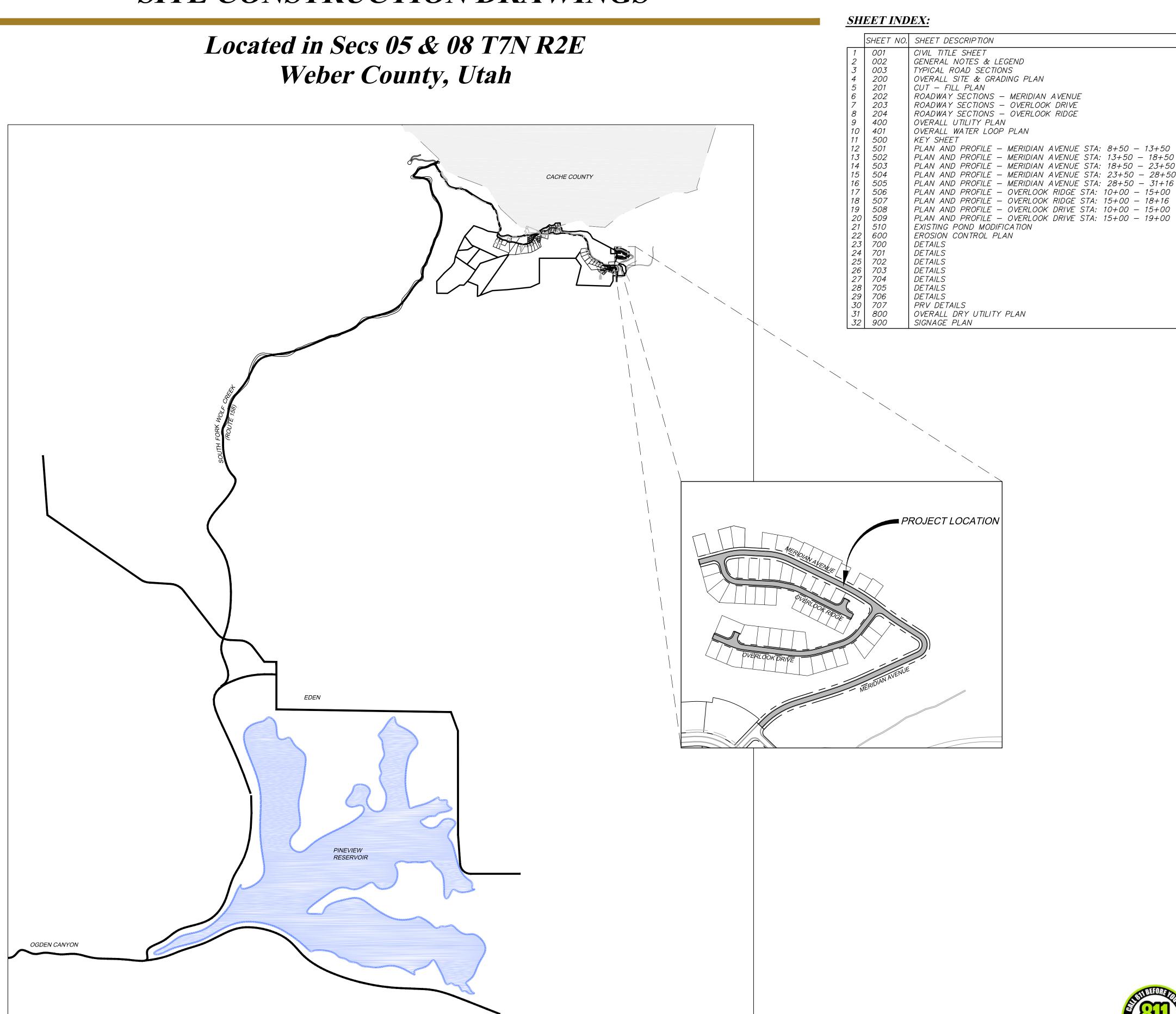
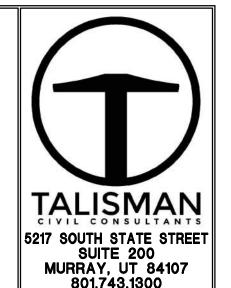
# OVERLOOK PH1, PH2, & PH3 AT SUMMIT POWDER MOUNTAIN

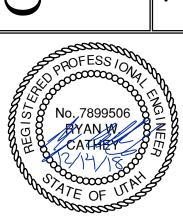
SITE CONSTRUCTION DRAWINGS

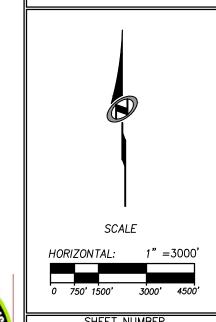




NO. BY DATE REVSIONS:

CIVIL TITLE SHEET







# 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
- 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.

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

14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, 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 DEFMED 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 TIE 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—662—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.

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 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 IS 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.

14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.

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 72" OF COVER TO TOP OF

PIPE BELOW FINISHED GRADE.

18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM 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, GUTTER, 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

# LEGEND:

**DESCRIPTION** SYMBOL / LINETYPE DETAIL |PROPOSED 8"\$ C-900 PVC WATER PIPE APWA PLAN NO. 381, 382 - SHEET 701 \_\_\_\_\_10"W PVC\_\_\_\_\_ |PROPOSED 10" Ø C-900 PVC WATER PIPE APWA PLAN NO. 381, 382 — SHEET 701 -----8"W HDPE-----PROPOSED 8" # HDPE WATER PIPE APWA PLAN NO. 381, 382 — SHEET 701 \_\_\_\_\_10"W HDPE\_\_\_\_\_ PROPOSED 10" # HDPE WATER PIPE APWA PLAN NO. 381, 382 - SHEET 701 -----12"W HDPE-----PROPOSED 12" HDPE WATER PIPE APWA PLAN NO. 381, 382 — SHEET 701 PROPOSED 2"Ø WATER SERVICE LATERAL PMWSID PLAN NO. 541S AND DETAIL A - SHEET 704 PROPOSED AIR RELEASE ASSEMBLY APWA PLAN NO. 575 — SHEET 704 PMWSID PLAN NO. 521S - SHEET 705 PROPOSED WATER METER PROPOSED WATER LINE REDUCER APWA PLAN NO. 561, 562 - SHEET 703 PROPOSED WATER VALVE APWA PLAN NO. 561, 562 - SHEET 703 PROPOSED FIRE HYDRANT ASSEMBLY PMWSID PLAN NO. 511S - SHEET 705 PROPOSED 8" Ø SDR35 PVC SEWER PIPE APWA PLAN NO. 381, 382 — SHEET 701 —8"SS PVC — PROPOSED 8" # HDPE SEWER PIPE -----8"SS HDPE-----APWA PLAN NO. 381, 382 — SHEET 701 PMWSID PLAN NO. 431S AND DETAIL A - SHEET 702 PROPOSED PVC SANITARY SEWER LATERAL PROPOSED 4'Ø SANITARY SEWER MANHOLE PMWSID PLAN NO. 402S AND APWA PLAN NO. 411 - SHEET 702 PROPOSED 5'Ø SANITARY SEWER MANHOLE PMWSID PLAN NO. 402S AND APWA PLAN NO. 411 - SHEET 702 PROPOSED 15" Ø CLIII RCP DRAINAGE PIPE APWA PLAN NO. 381, 382 — SHEET 701 — 15′′SD — PROPOSED 18" Ø CLIII RCP DRAINAGE PIPE —— 18′′SD — APWA PLAN NO. 381, 382 - SHEET 701 PROPOSED STORM DRAIN MANHOLE APWA PLAN NO. 341 — SHEET 701 PROPOSED CATCH BASIN APWA PLAN NO. 315 — SHEET 700 PROPOSED COMBINATION CATCH BASIN AND CLEANOUT BOX APWA PLAN NO. 316 - SHEET 701 PROPOSED TELECOMMUNICATION CONDUIT (1)2"ø N/A - (1)2"COM PROPOSED TELECOMMUNICATION PULL BOX N/A ----(2) 6" P-----PROPOSED ELECTRICAL CONDUIT (2)6"ø PROPOSED ELECTRICAL METER N/A PROPOSED ELECTRICAL TRANSFORMER N/A N/A LOT LINE PROPOSED LOT LINE EXISTING 8" WATER LINE N/A -----8''\W-----EXISTING 16" Ø WATER LINE EXISTING WATER VALVE EXISTING FIRE HYDRANT EXISTING 15" Ø STORM DRAIN LINE —— 15′′SD — EXISTING STORM DRAIN MANHOLE N/A EXISTING STORM DRAIN CATCH BASIN EXISTING 8" SANITARY SEWER LINE EXISTING SANITARY SEWER MANHOLE EXISTING GAS PIPE/SLEEVE EXISTING MISCELLANEOUS POWER CONDUIT N/A EXISTING 4" POWER CONDUIT \_\_\_\_\_ (1)4"P \_\_\_\_\_ EXISTING 2" OCMMUNICATION CONDUIT N/A -----(1)2"CDM------8 S HDRE EXISTING SANITARY SEWER LINE TO BE REMOVED N/A EXISTING STORM DRAIN LINE TO BE REMOVED EXISTING WATER LINE TO BE REMOVED 16 1 N/A

# 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.

EXISTING SANITARY SEWER MANHOLE TO BE REMOVED

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

# **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:

<u>EXPOSED SLOPES:</u> 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:

# 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

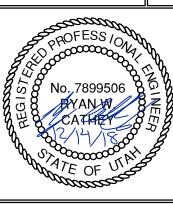
# POWDER MOUNTAIN WATER & SEWER DISTRICT

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

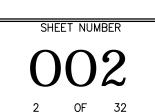


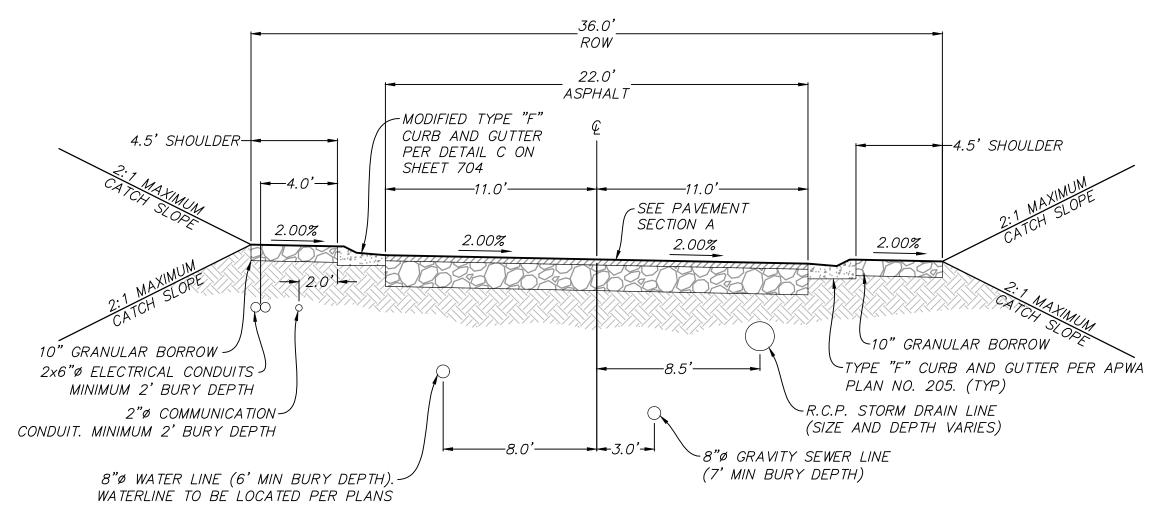
OK PH1, PH2, PH3 / GENERAL NOTES & LEGEND

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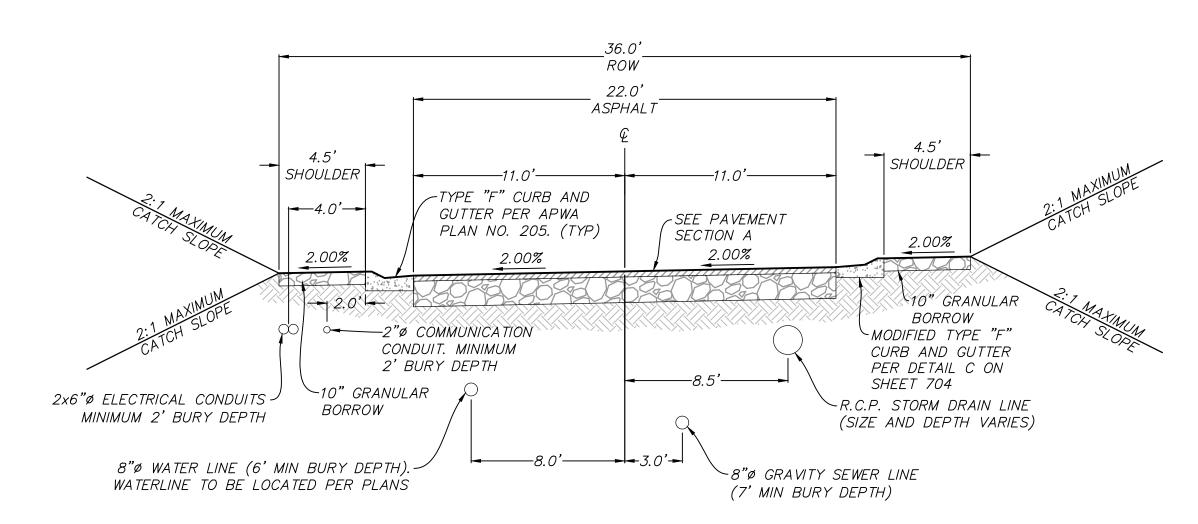




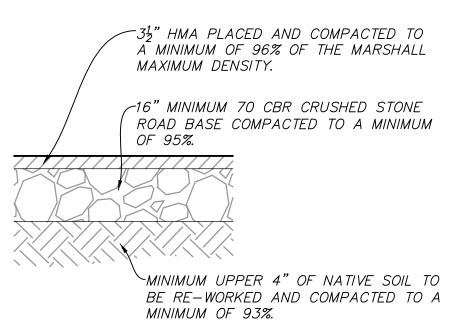




TYPICAL SECTION: MERIDIAN AVENUE

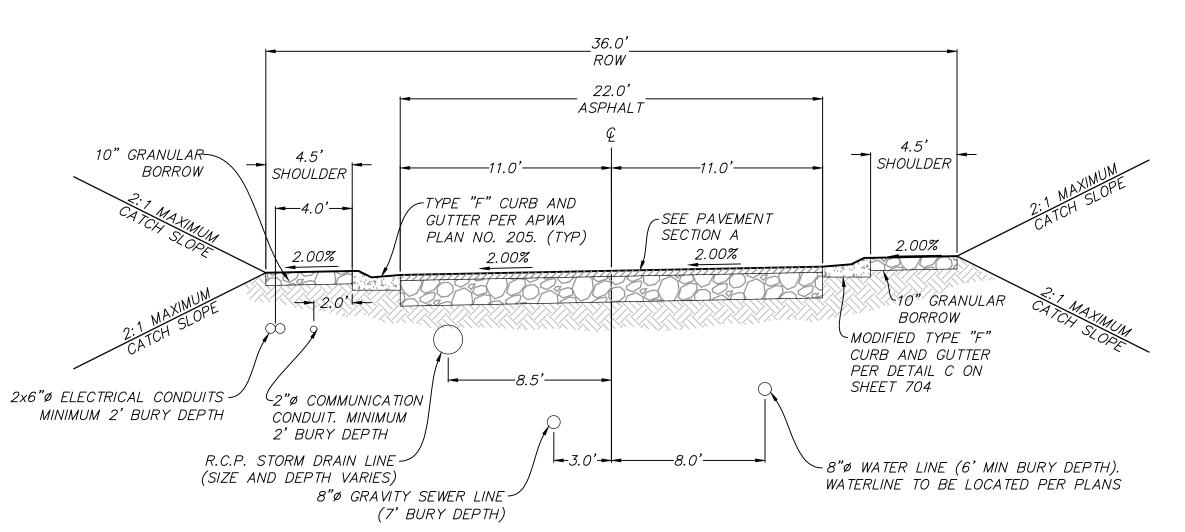


TYPICAL SECTION: OVERLOOK RIDGE



NOTE: PAVEMENT SECTION DETERMINED BY IGES GEOTECHNICAL REPORT DATED NOVEMBER 9, 2018.

PAVEMENT SECTION A



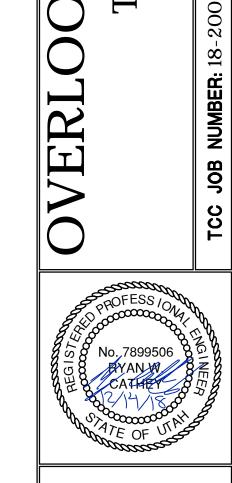
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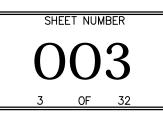
**TALISMAN** 

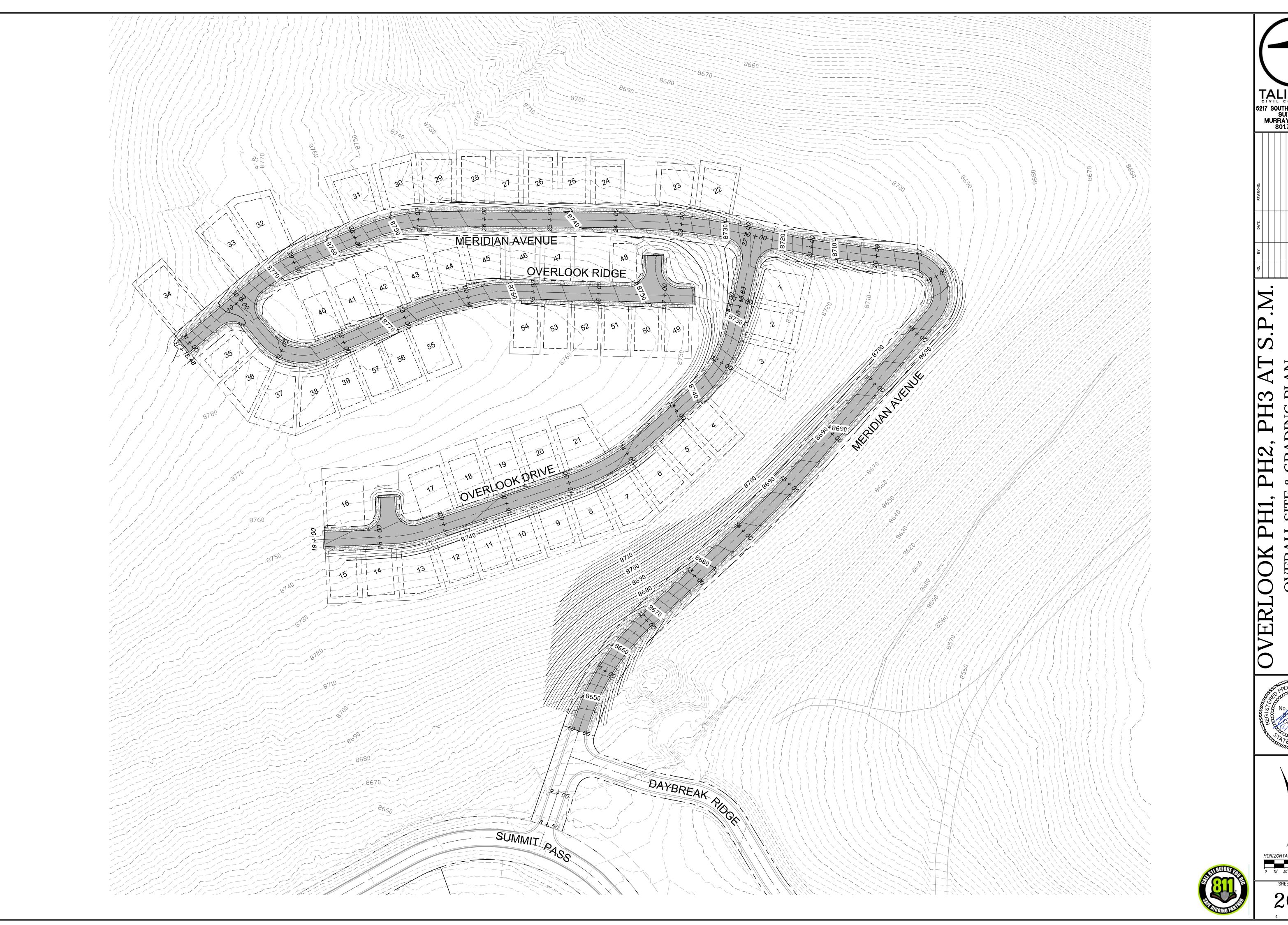
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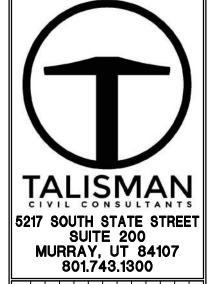
801.743.1300



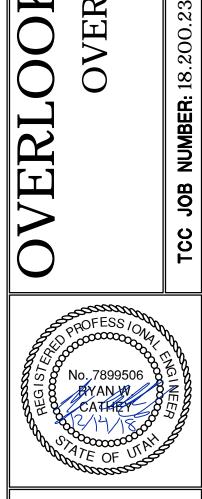


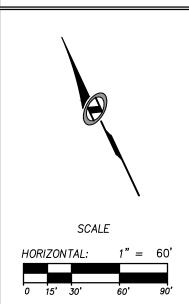


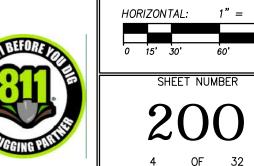


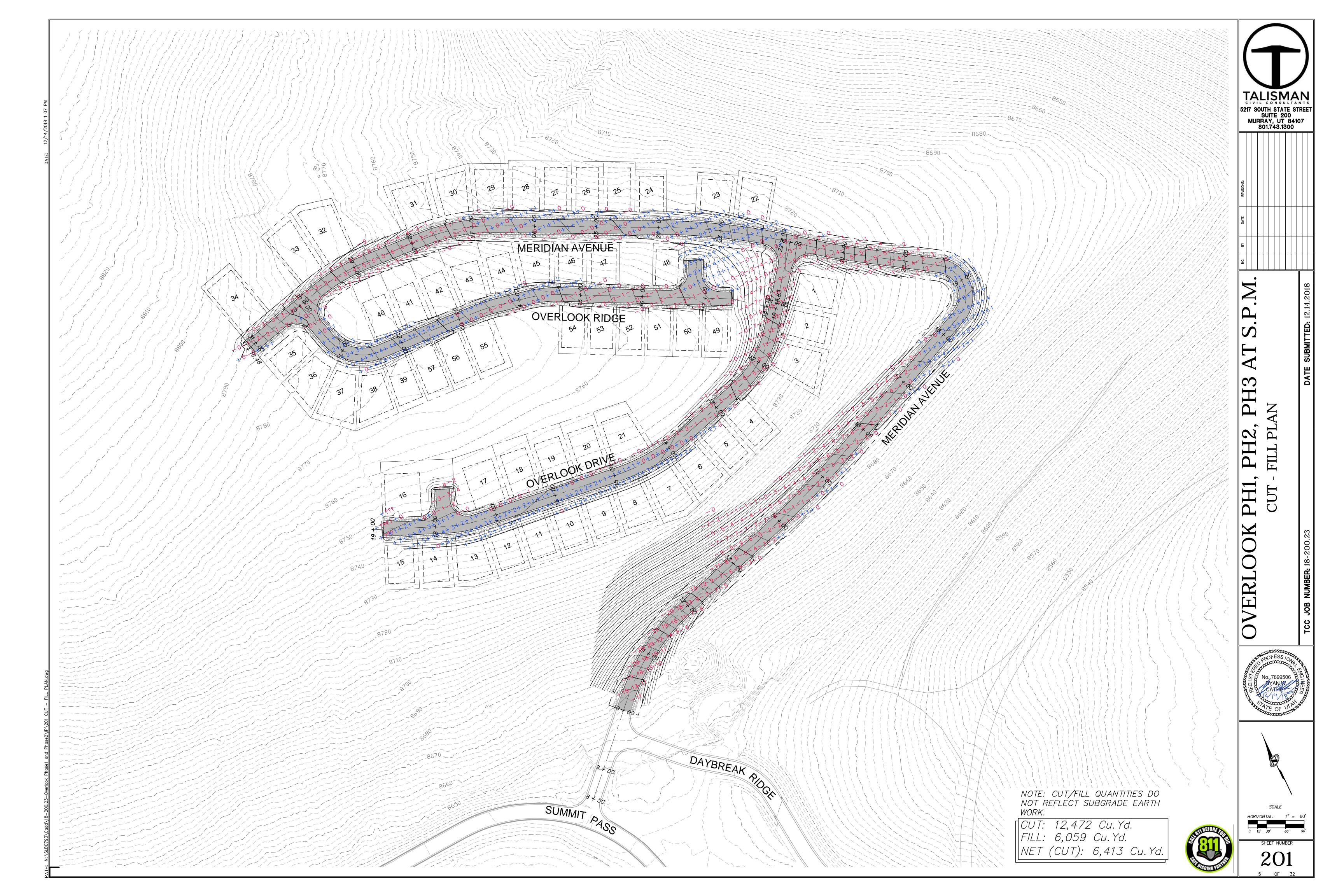


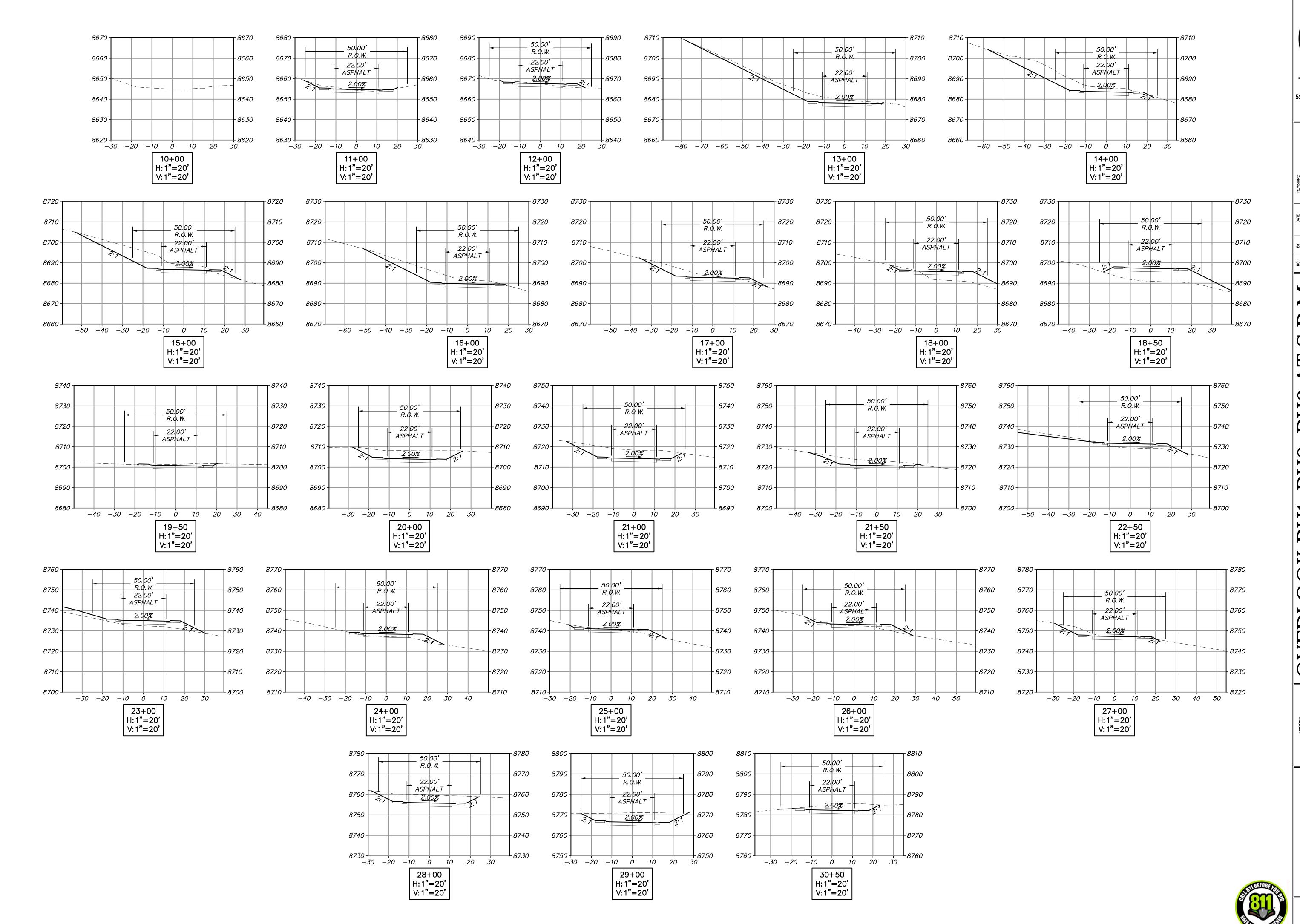
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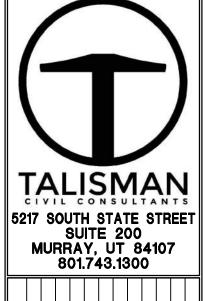




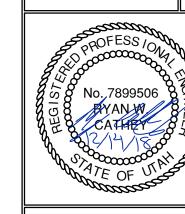






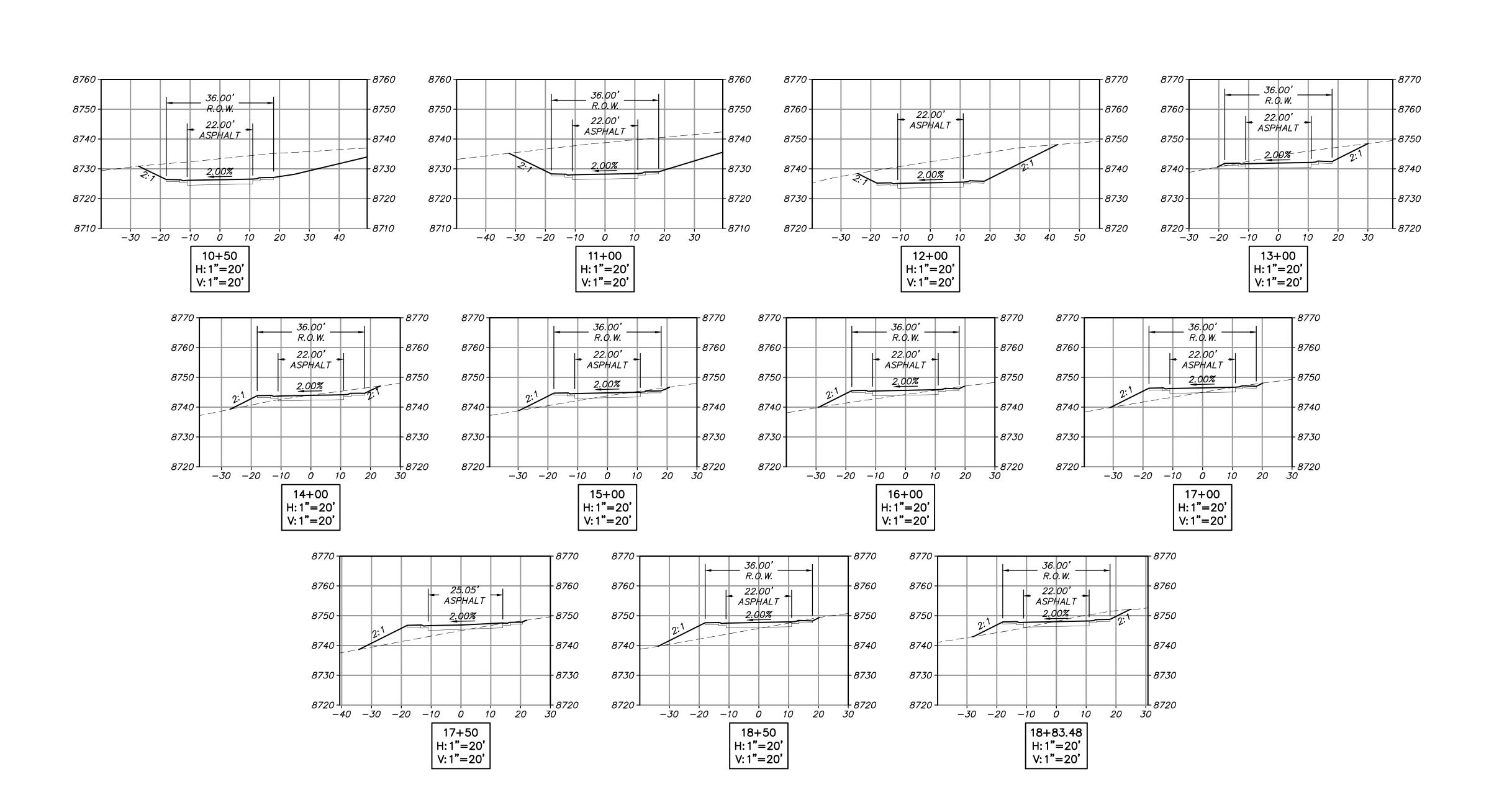


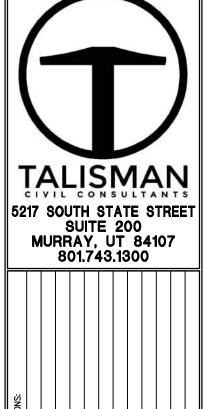
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202





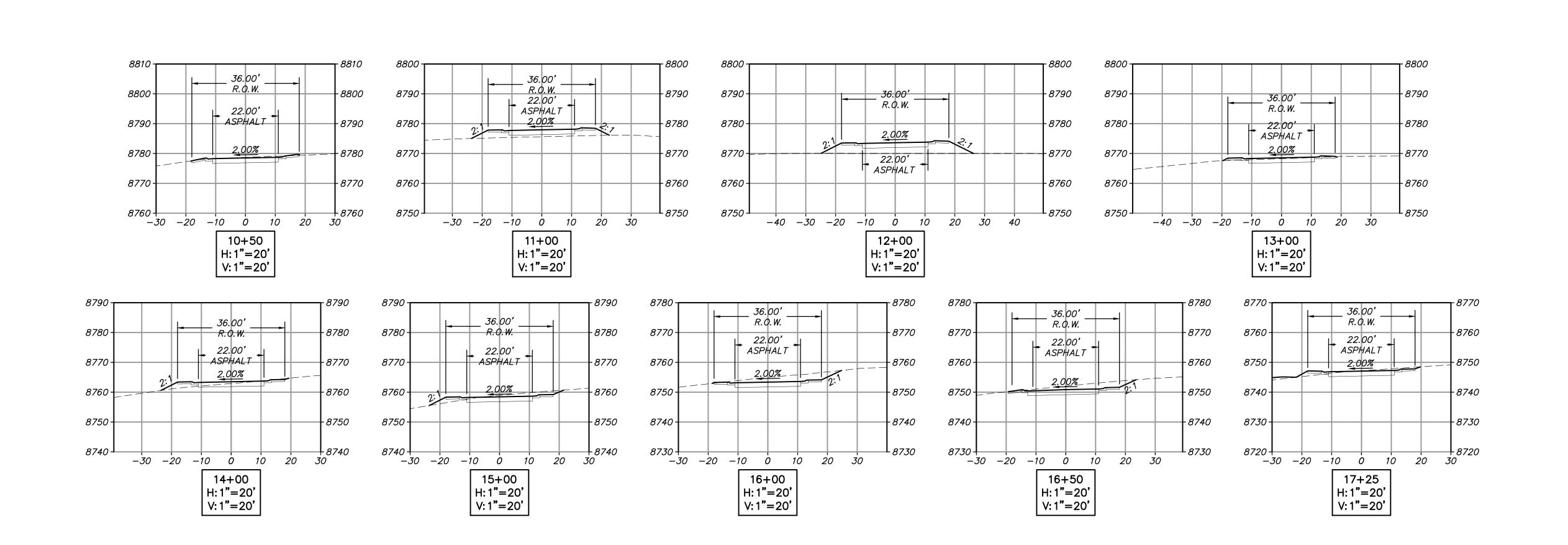
S.P.M.
NO. BY DATE REVISIONS:

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ERLOOK PH1, PH2, PH3 AT S.I ROADWAY SECTIONS - OVERLOOK DRIVE

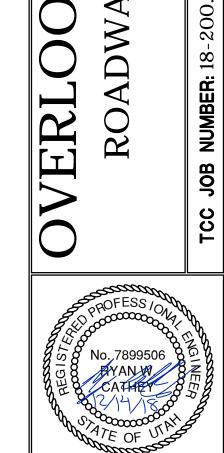
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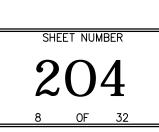


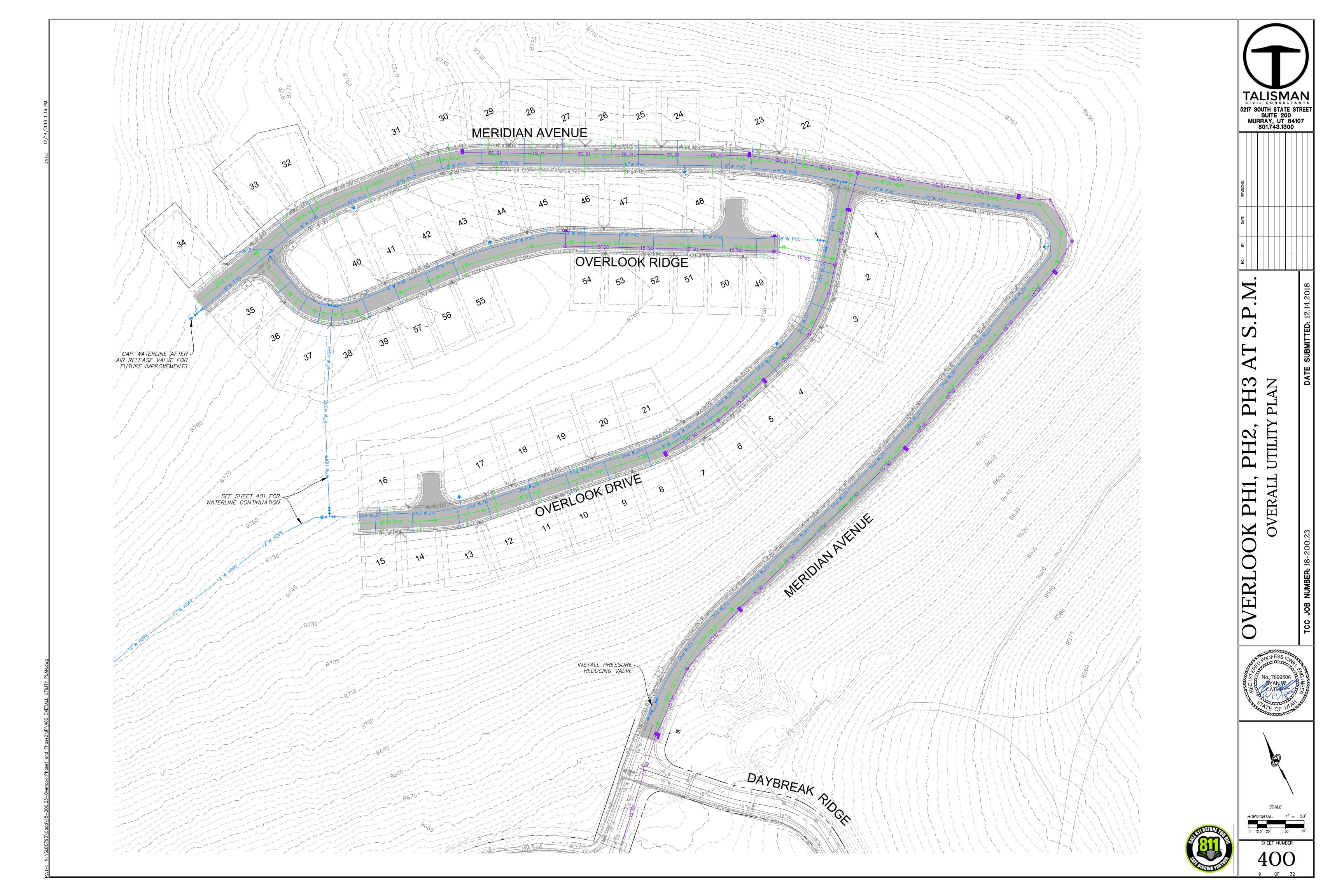


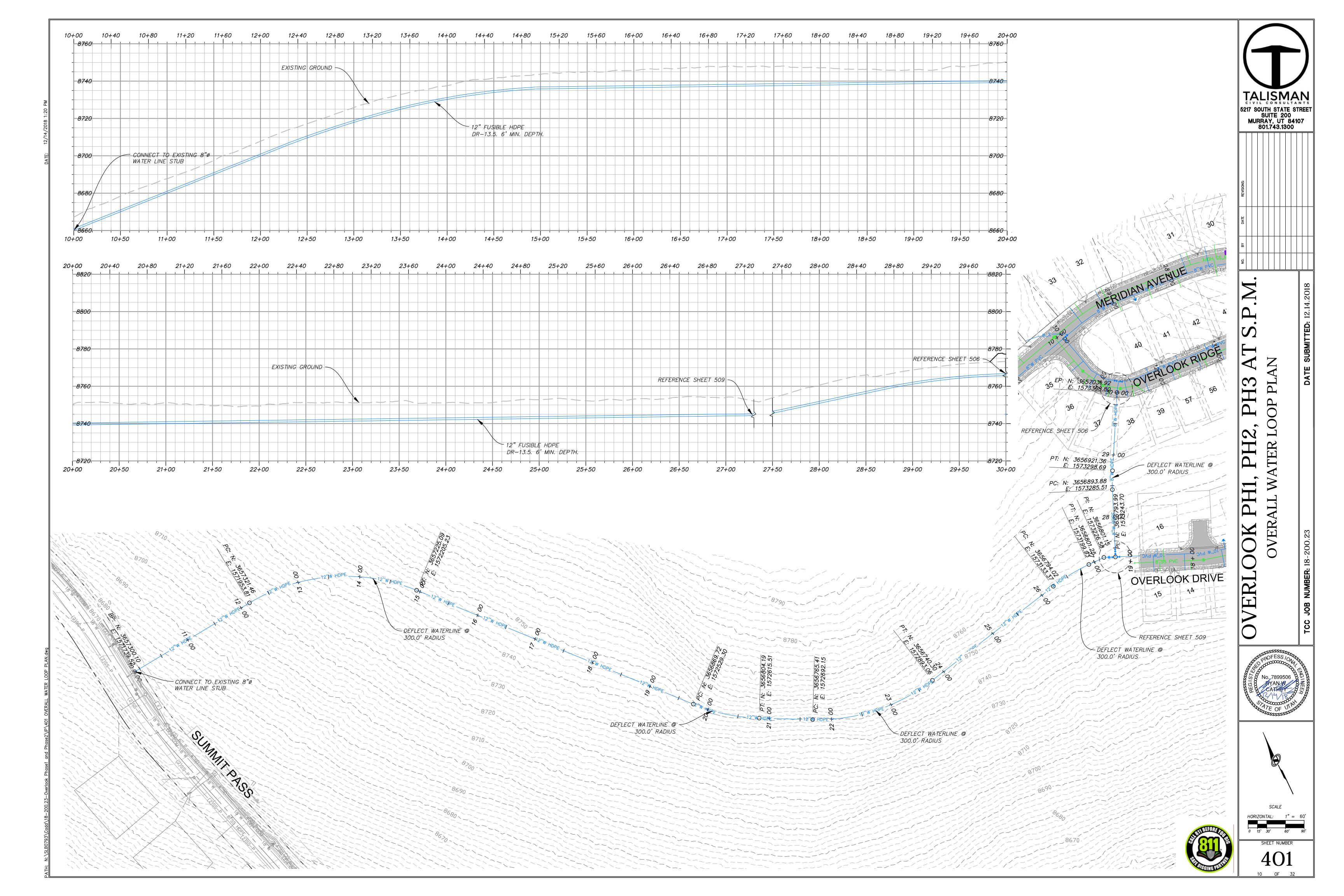
TALISMAN 5217 SOUTH STATE STREET SUITE 200 MURRAY, UT 84107 801.743.1300

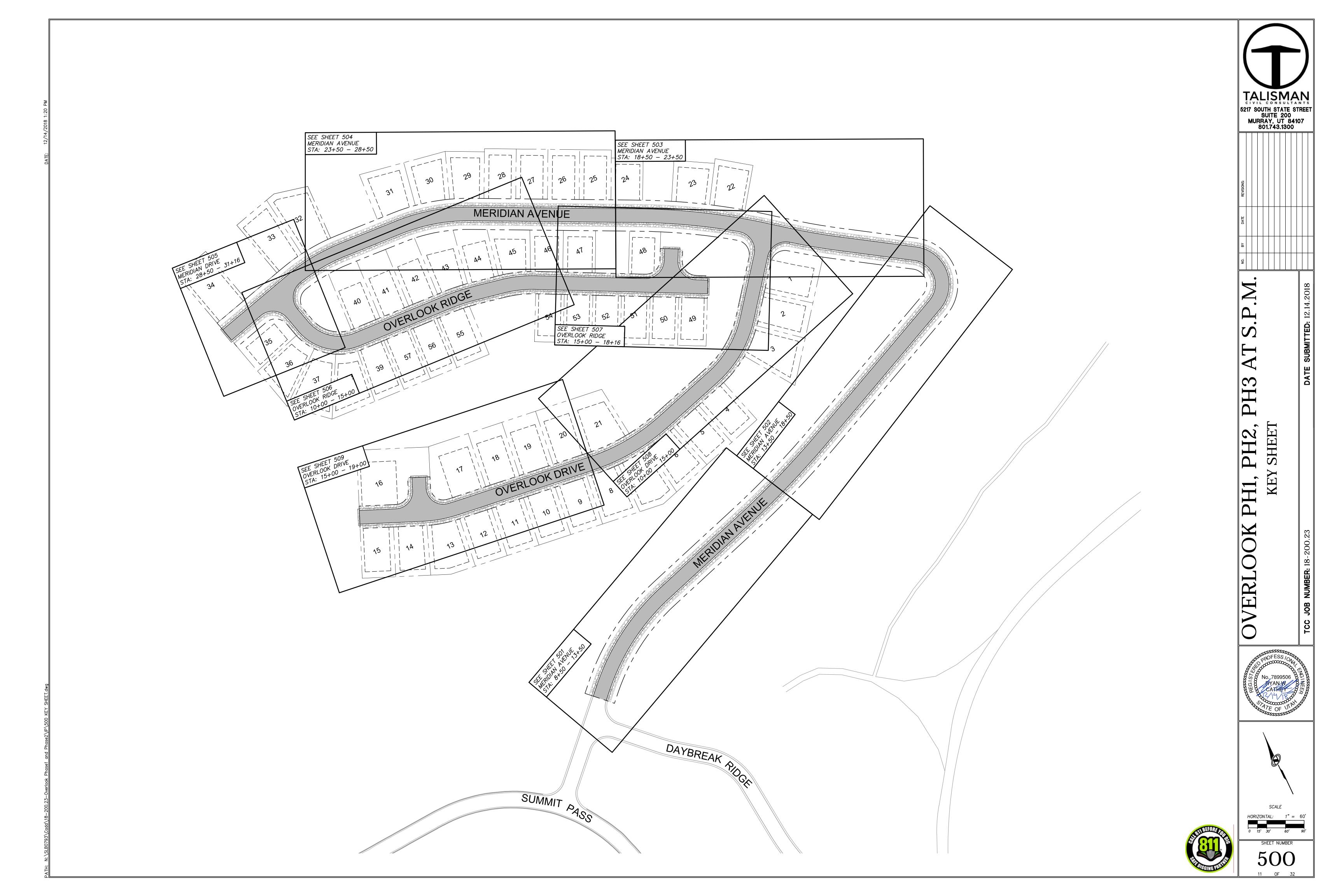


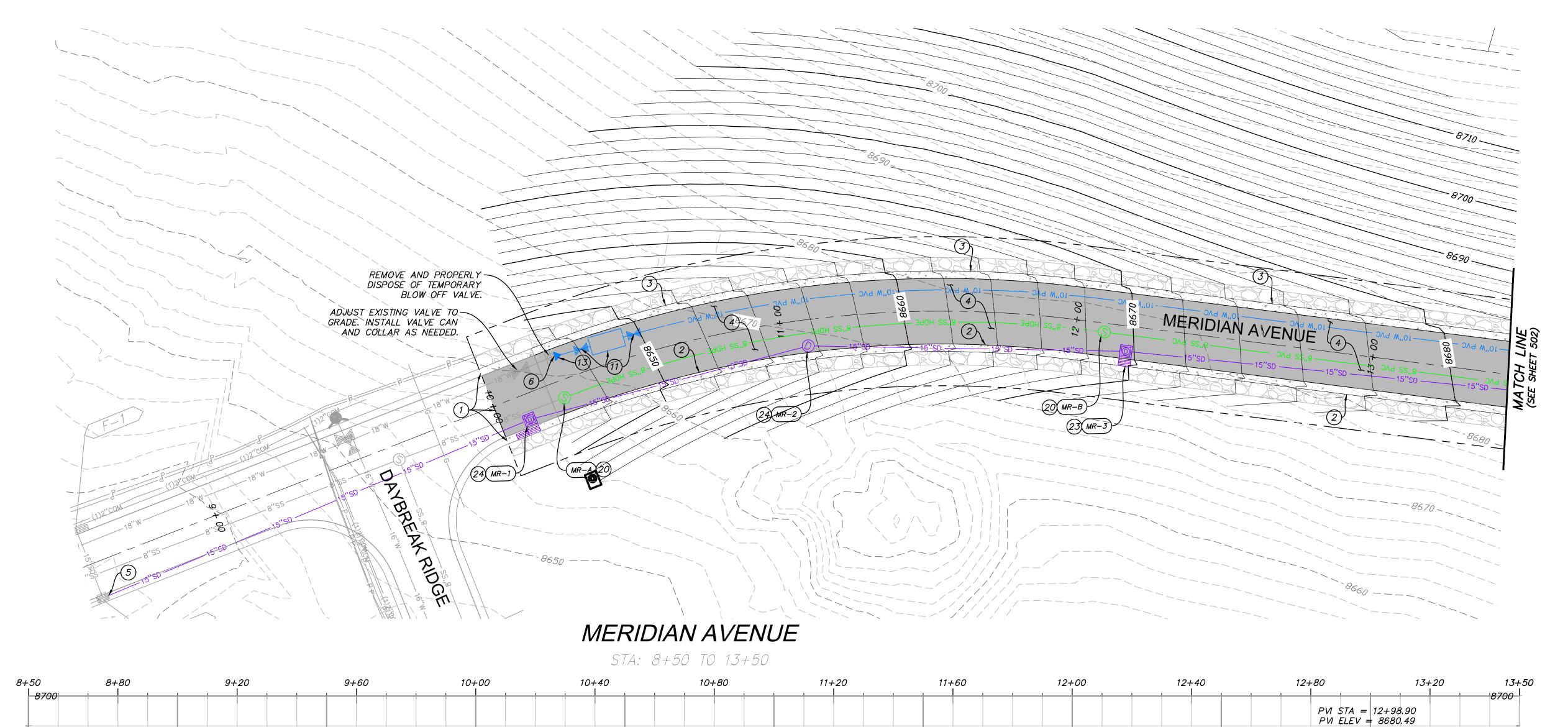


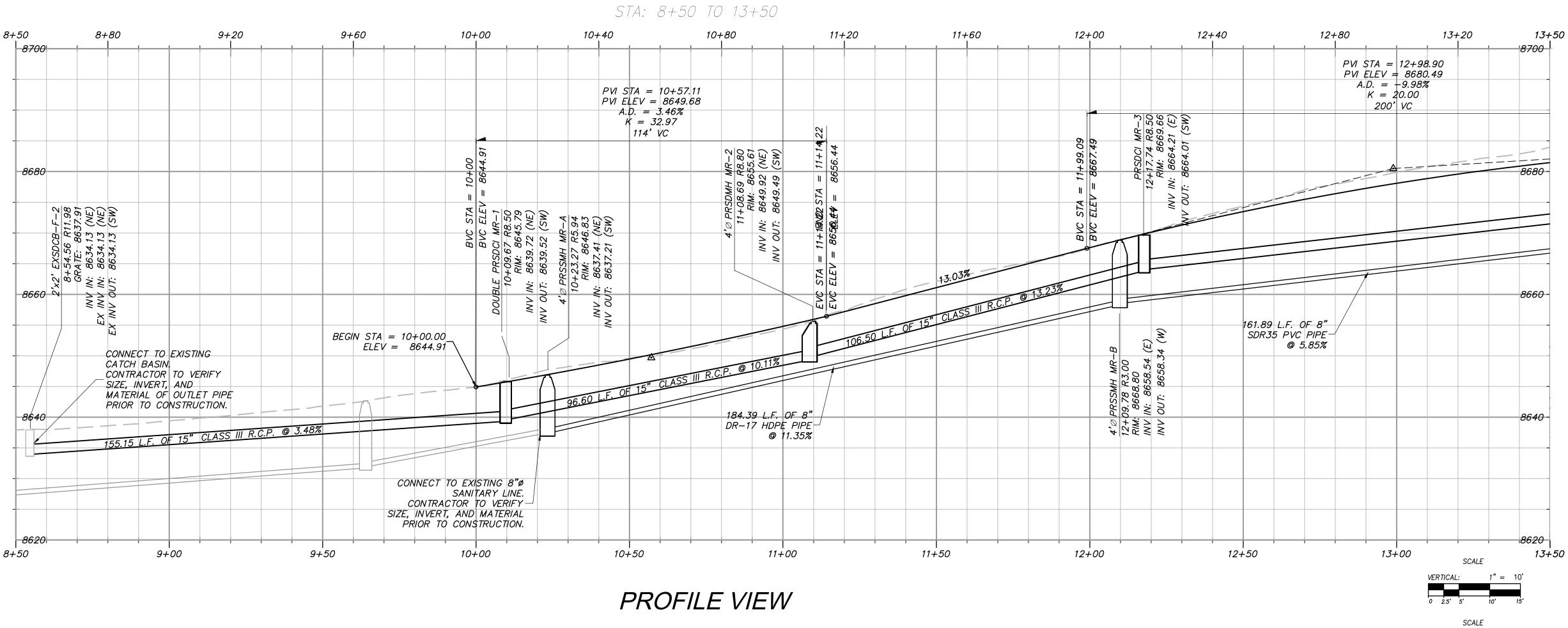












# SITE SCOPE OF WORK:

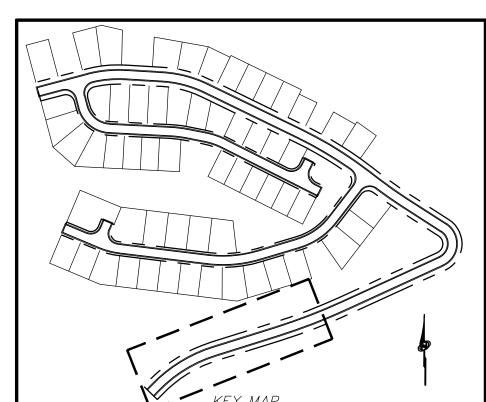
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PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- (1) MATCH EXISTING.
- 2 TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
- (3) MODIFIED TYPE 'F' CURB AND GUTTER PER DETAIL A/SHEET 700.
- (4) ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- (5) CONNECT TO EXISTING CATCH BASIN.
- (6) CONNECT TO EXISTING 18" WATER LINE.
- TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO (7) APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
- 8 2"Ø WATER SERVICE TAP & LATERAL PER PMWSID PLAN NO. 541S ON SHEET 705 AND DETAIL A/SHEET 704.
- 9 FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S ON SHEET 705.
- 10 AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
- 11) INSTALL PRE SHEET 707. INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL
- 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 13"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703. 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561
- AND 562 ON SHEET 703.
- 8"ø 11.25° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703. 8" Ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO.

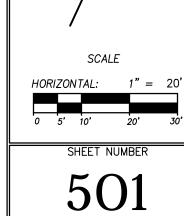
561 AND 562 ON SHEET 703.

- 8"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 8"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 20 4'Ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.
- 21) 4" SANITARY SEWER LATERAL PER PMWSID PLAN NO. 431S AND DETAIL A/SHEET 702.
- (22) 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
- (23) COMBINATION INLET PER APWPA PLAN NO. 316 ON SHEET 701.
- 4'Ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- (25) CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
- 5' SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.
- 27 5' PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- 28) 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 29 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 30 10"ø 11.25° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 31) 10"ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 32) 10"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 33 10"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 10"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 35) 12"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 36) 12"ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

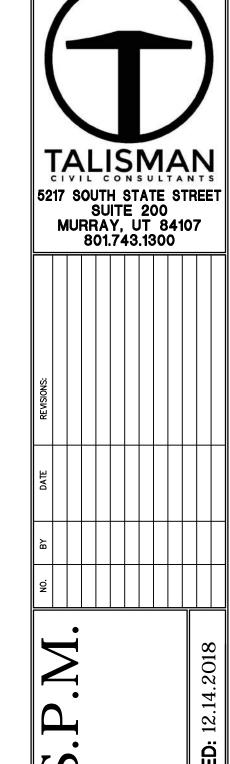


HORIZONTAL: 1" = 20

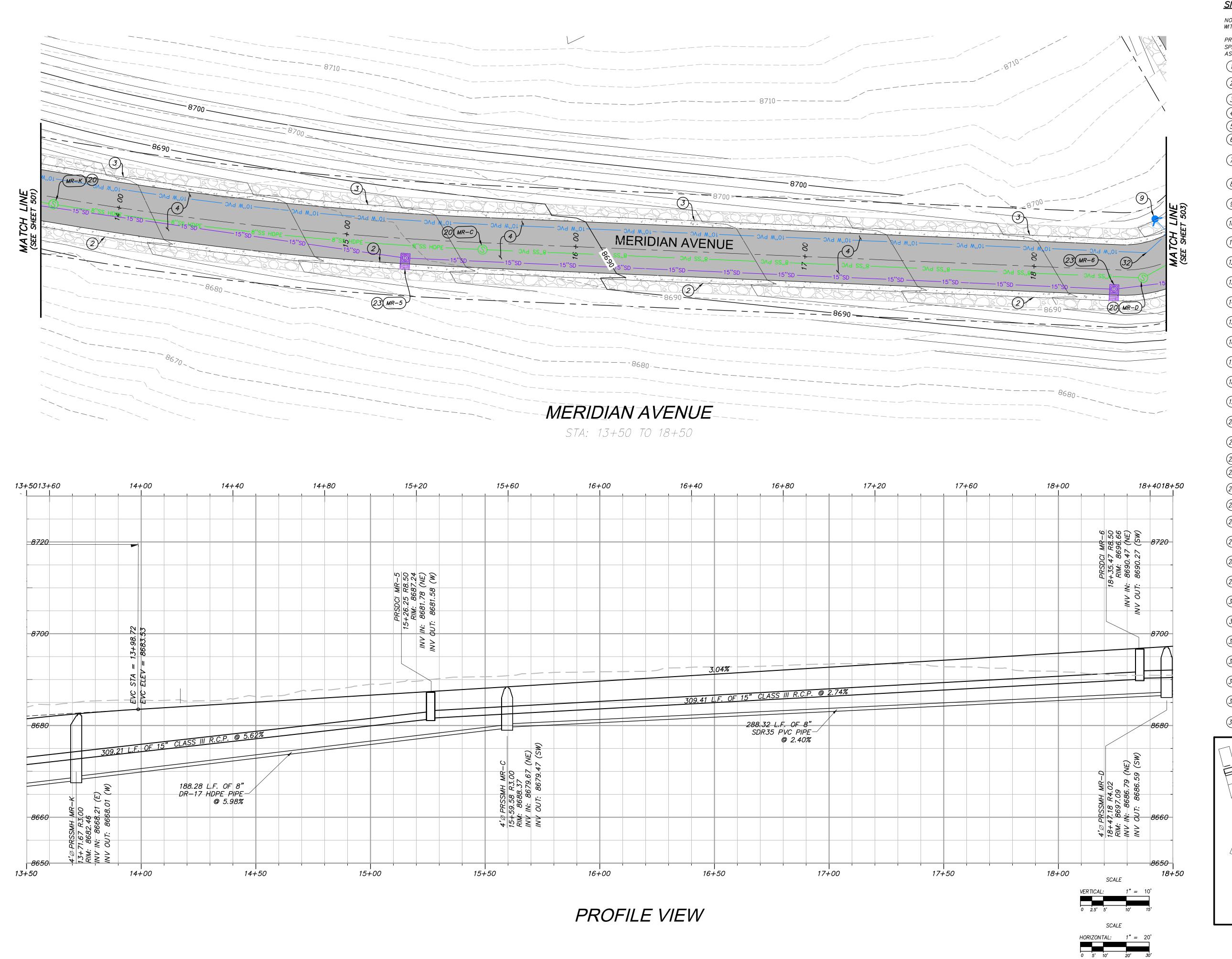








2



# SITE SCOPE OF WORK:

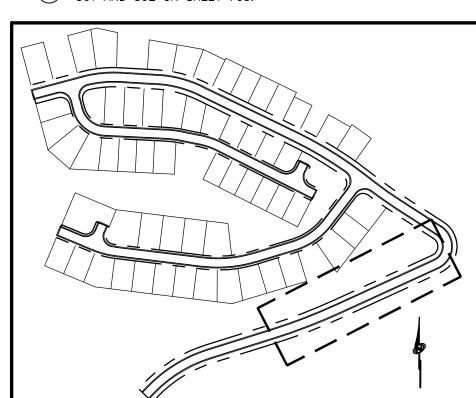
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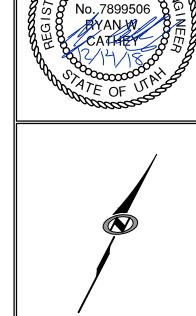
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

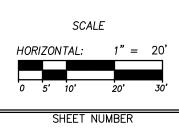
- (1) MATCH EXISTING.
- 2 TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
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- ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- (5) CONNECT TO EXISTING CATCH BASIN.
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- TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO (7) APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
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- 9 FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S ON SHEET 705.
- 10 AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
- INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL
- 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703. 13"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
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- 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703. 8"ø 11.25° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 8"0 22.5" BEND WITH THRUST BLOCKING PER APWA PLAN NO.

561 AND 562 ON SHEET 703.

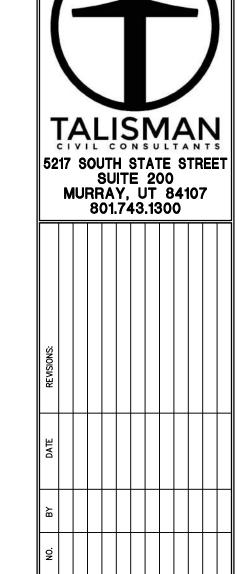
- 8"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 8"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.
- 21) 4"ø SANITARY SEWER LATERAL PER PMWSID PLAN NO. 431S AND DETAIL A/SHEET 702.
- (22) 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
- (23) COMBINATION INLET PER APWPA PLAN NO. 316 ON SHEET 701.
- 4'Ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- (25) CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
- 5' SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.
- 5' PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- 28 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 29 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 30 10"ø 11.25° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
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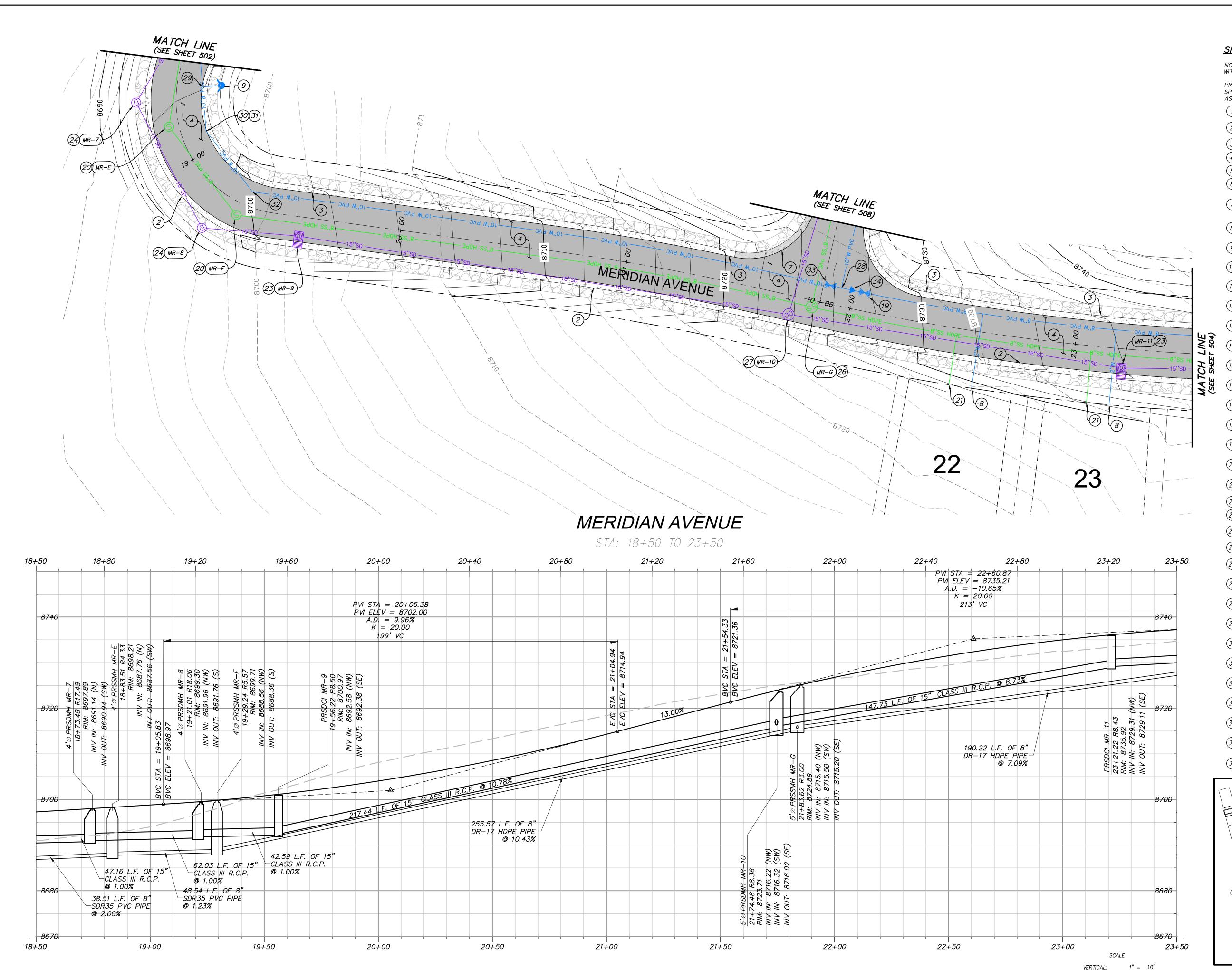












PROFILE VIEW

# SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

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) MATCH EXISTING.

2 TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.

(3) MODIFIED TYPE 'F' CURB AND GUTTER PER DETAIL A/SHEET 700.

(4) ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.

(5) CONNECT TO EXISTING CATCH BASIN.

(6) CONNECT TO EXISTING 18" WATER LINE.

TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.

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9 FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S ON SHEET 705. 10 AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.

11) INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 707.

18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

13 12"x8" REDUCER WITH THE SECTION SHEET 703. 12"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO.

8" TEE WITH THRUS 1 562 ON SHEET 703. 8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND

8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

8"ø 11.25° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

8"ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

8"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

19 8"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703. 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.

21) 4"ø SANITARY SEWER LATERAL PER PMWSID PLAN NO. 431S AND DETAIL A/SHEET 702.

(22) 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700. (23) COMBINATION INLET PER APWPA PLAN NO. 316 ON SHEET 701.

24 4'Ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.

(25) CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.

5' SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 70. FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.

27 5' PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.

28) 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

29 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

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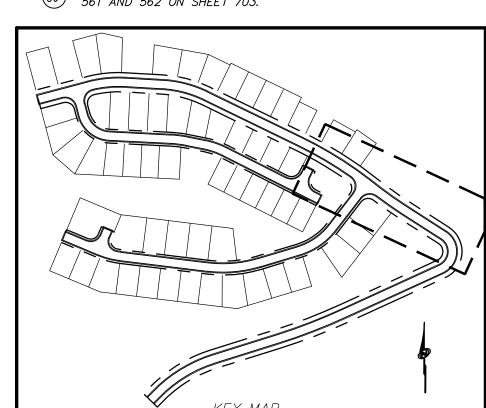
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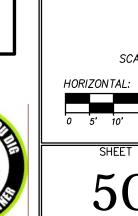
10"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

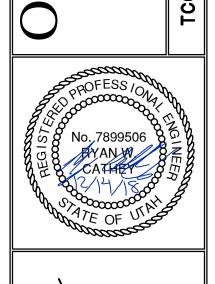
35) 12"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

36) 12"ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.



SCALE HORIZONTAL: 1" = 20





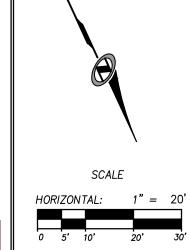
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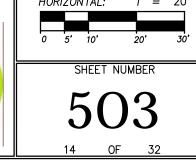
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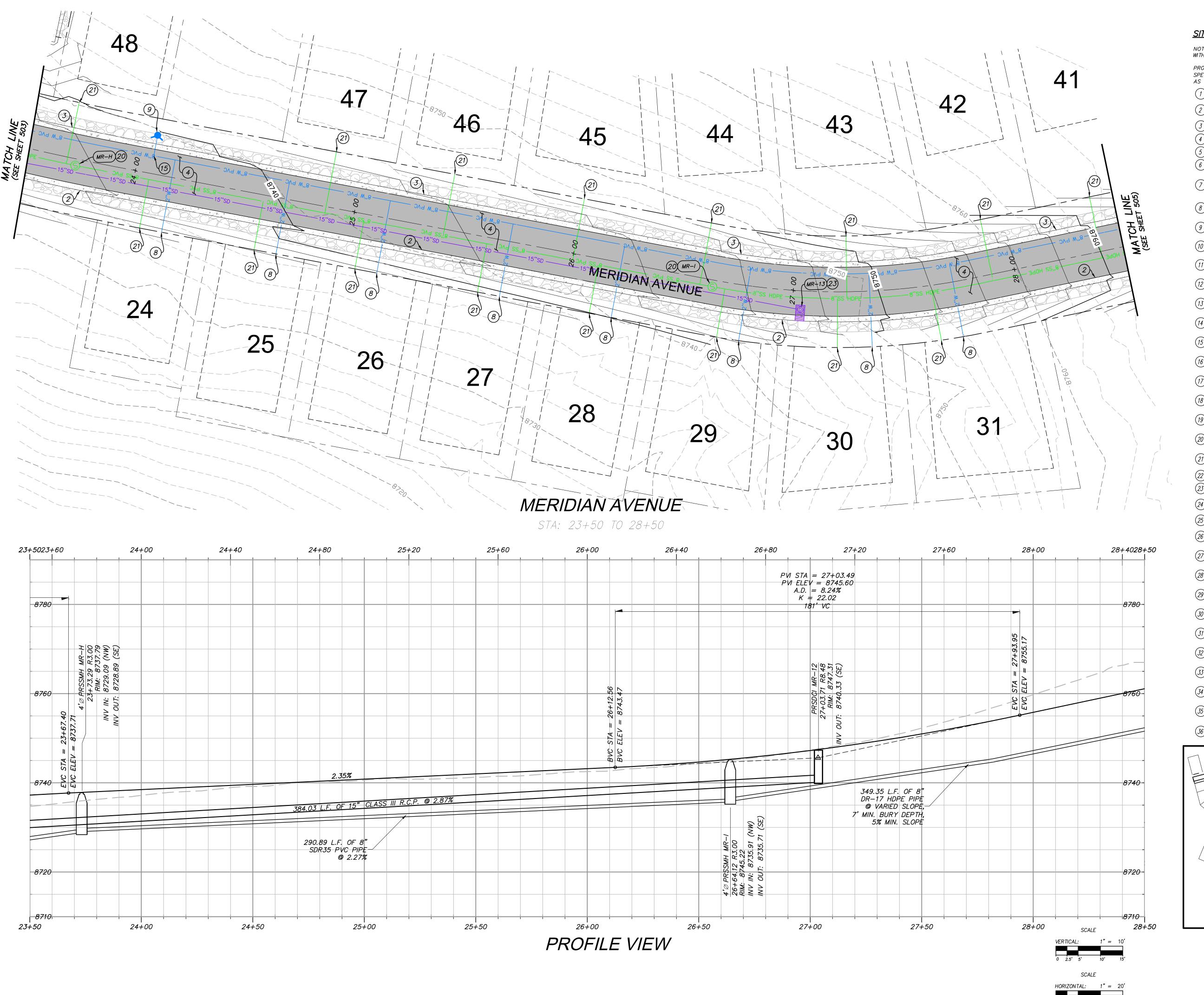
TALISMAN

**5217 SOUTH STATE STREET** SUITE 200 MURRAY, UT 84107

801.743.1300







# SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE

- (3) MODIFIED TYPE 'F' CURB AND GUTTER PER DETAIL A/SHEET 700.

TALISMAN

5217 SOUTH STATE STREET SUITE 200 MURRAY, UT 84107

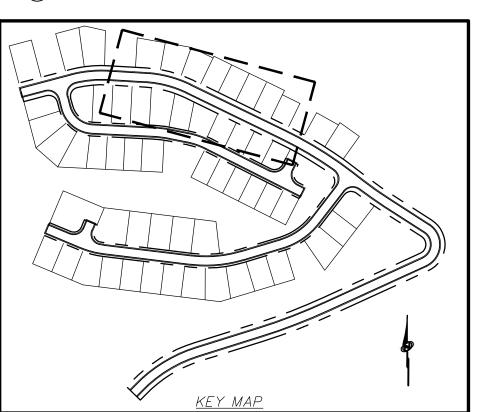
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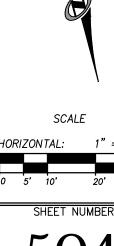
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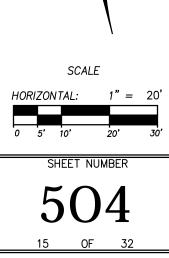
A DI

- (4) ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- (6) CONNECT TO EXISTING 18" WATER LINE.
- TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
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- 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

- 8"ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 8"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 20 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.
- 21) 4" SANITARY SEWER LATERAL PER PMWSID PLAN NO. 431S AND DETAIL A/SHEET 702.
- (22) 2'x4' CATCH BASIN PER APWA PLAN NO. 315 ON SHEET 700.
- (23) COMBINATION INLET PER APWPA PLAN NO. 316 ON SHEET 701.
- (25) CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
- 26) 5' SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER PMWSID PLAN NO. 402S ON SHEET 702.
- 5' PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.
- 29 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 30 10"ø 11.25° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
- 31) 10"ø 22.5° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.









SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

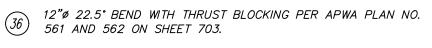
- (1) MATCH EXISTING.
- 2 TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
- (5) CONNECT TO EXISTING CATCH BASIN.

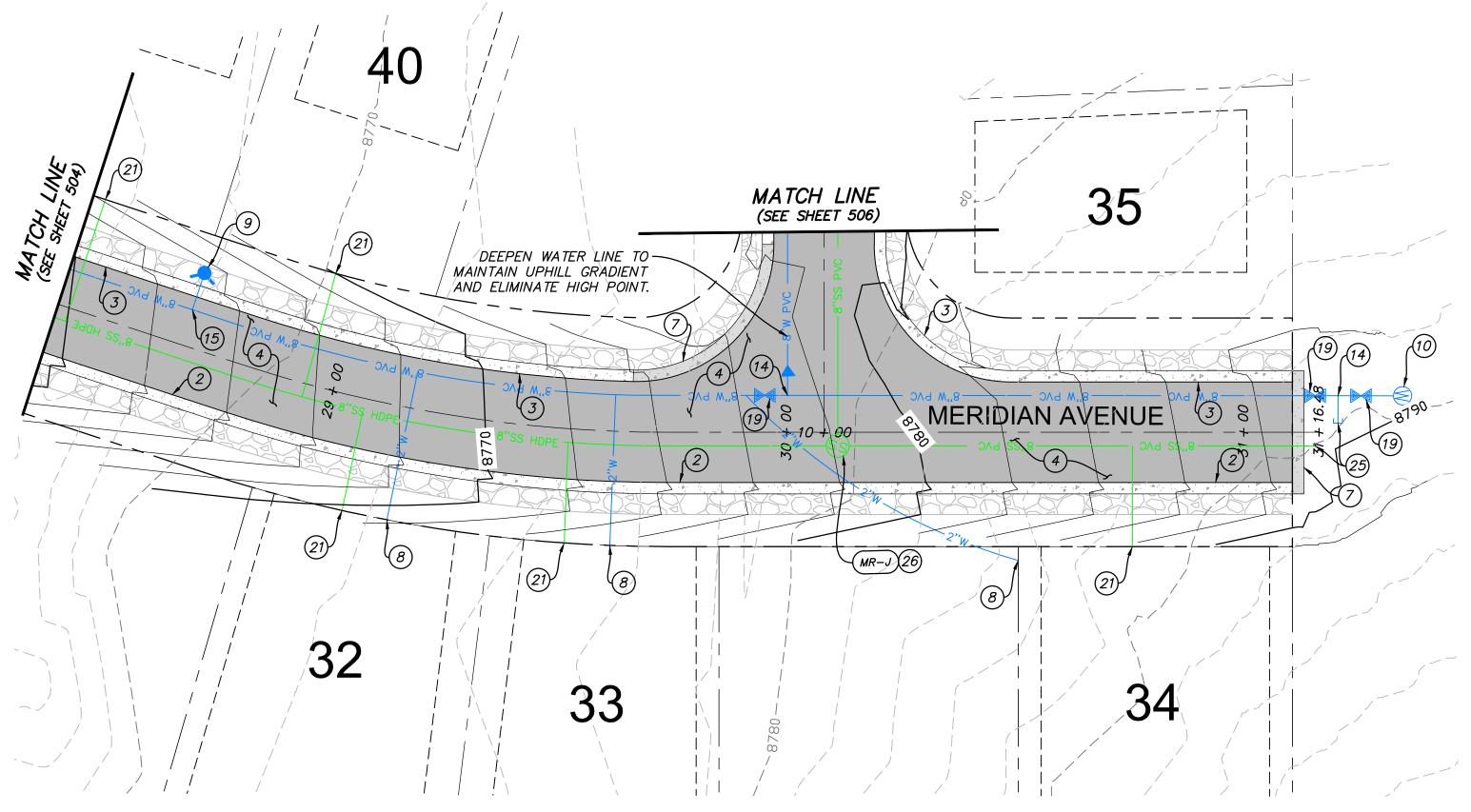
- 10) AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
- 13"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
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- 24) 4'Ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 ON SHEET 701 WITH SOLID LID PER APWA PLAN NO. 302.

- 28) 10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.

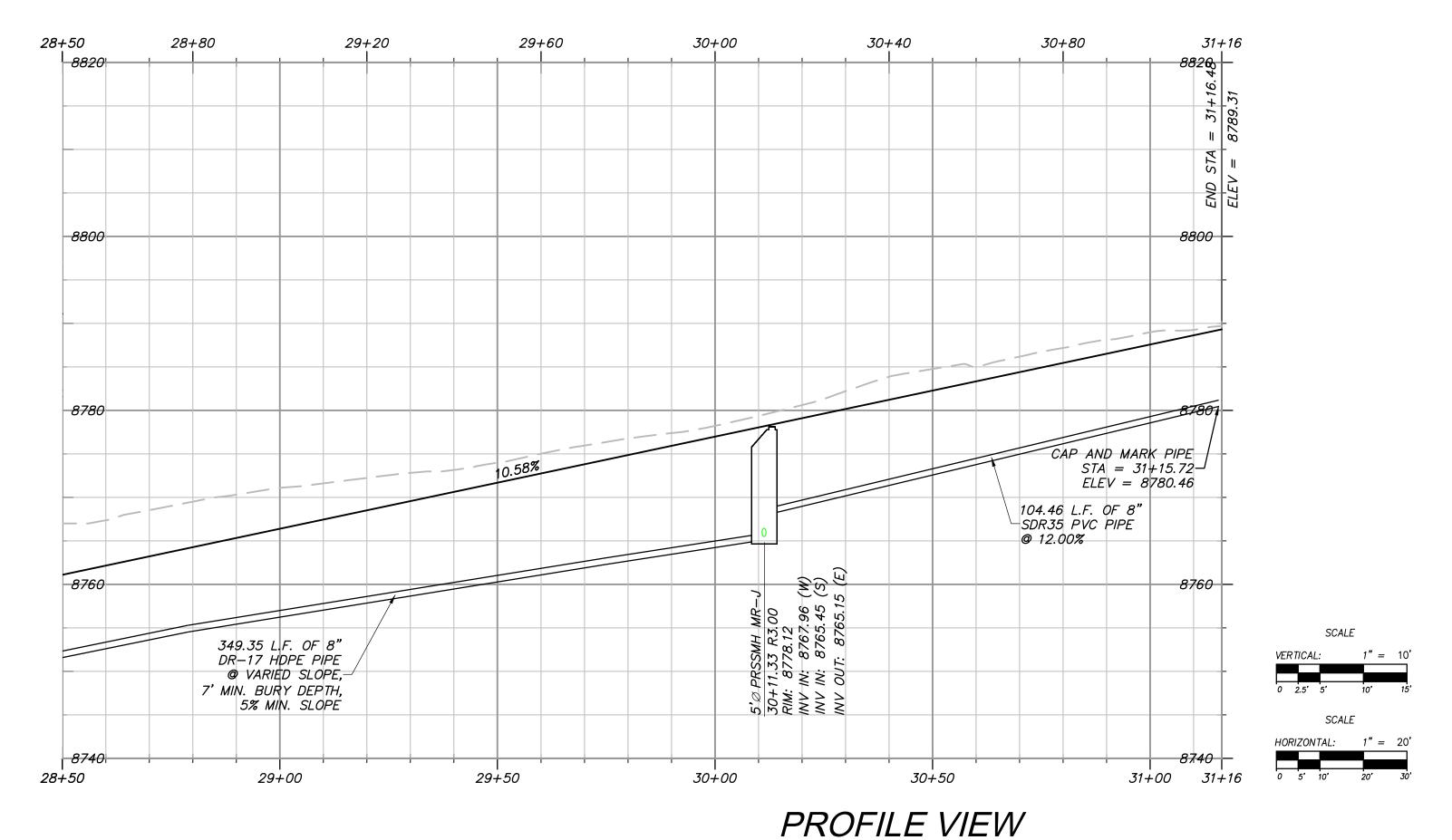
- 32) 10"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
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- 35) 12"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.





# MERIDIAN AVENUE

STA: 28+50 TO 31+16

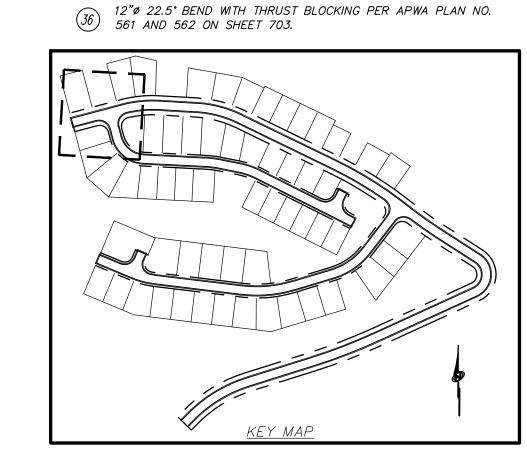


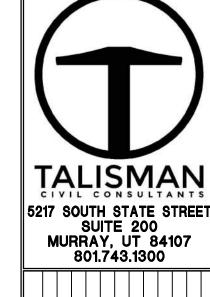
# SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

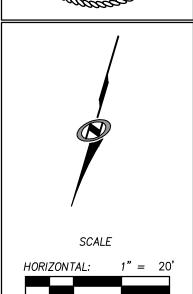
PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- 1) MATCH EXISTING.
- 2 TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205 ON SHEET 700.
- (3) MODIFIED TYPE 'F' CURB AND GUTTER PER DETAIL A/SHEET 700.
- (4) ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- (5) CONNECT TO EXISTING CATCH BASIN.
- (6) CONNECT TO EXISTING 18" WATER LINE.
- TRANSITION FROM MODIFIED TYPE "F" CURB AND GUTTER TO (7) APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER DETAILS ON SHEET 700.
- 8 2"Ø WATER SERVICE TAP & LATERAL PER PMWSID PLAN NO. 541S ON SHEET 705 AND DETAIL A/SHEET 704.
- 9 FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S ON SHEET 705.
- AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET 704.
- 11) INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 707.
- 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562 ON SHEET 703.
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- (23) COMBINATION INLET PER APWPA PLAN NO. 316 ON SHEET 701.
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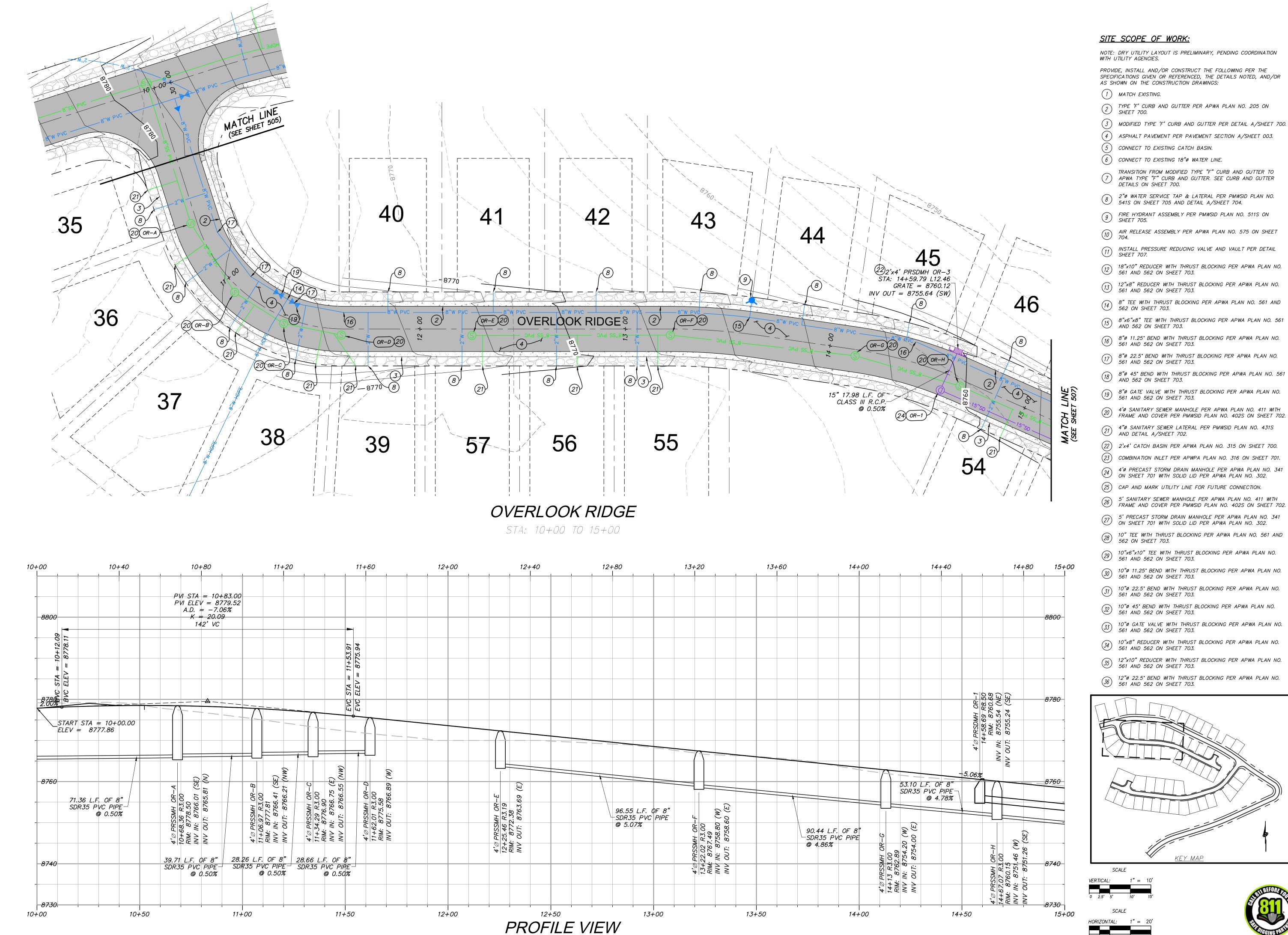


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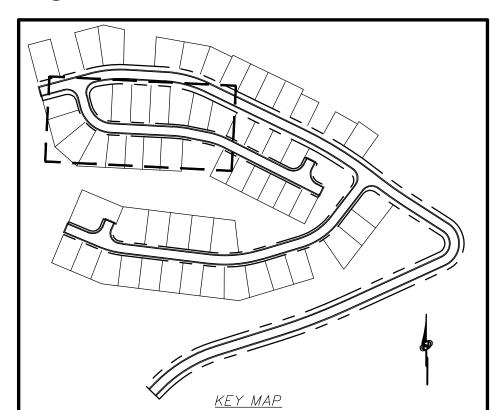
- 7) APWA TYPE "F" CURB AND GUTTER. SEE CURB AND GUTTER

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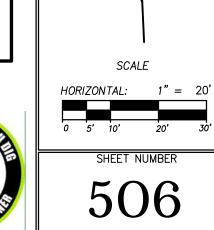
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- 5' SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH





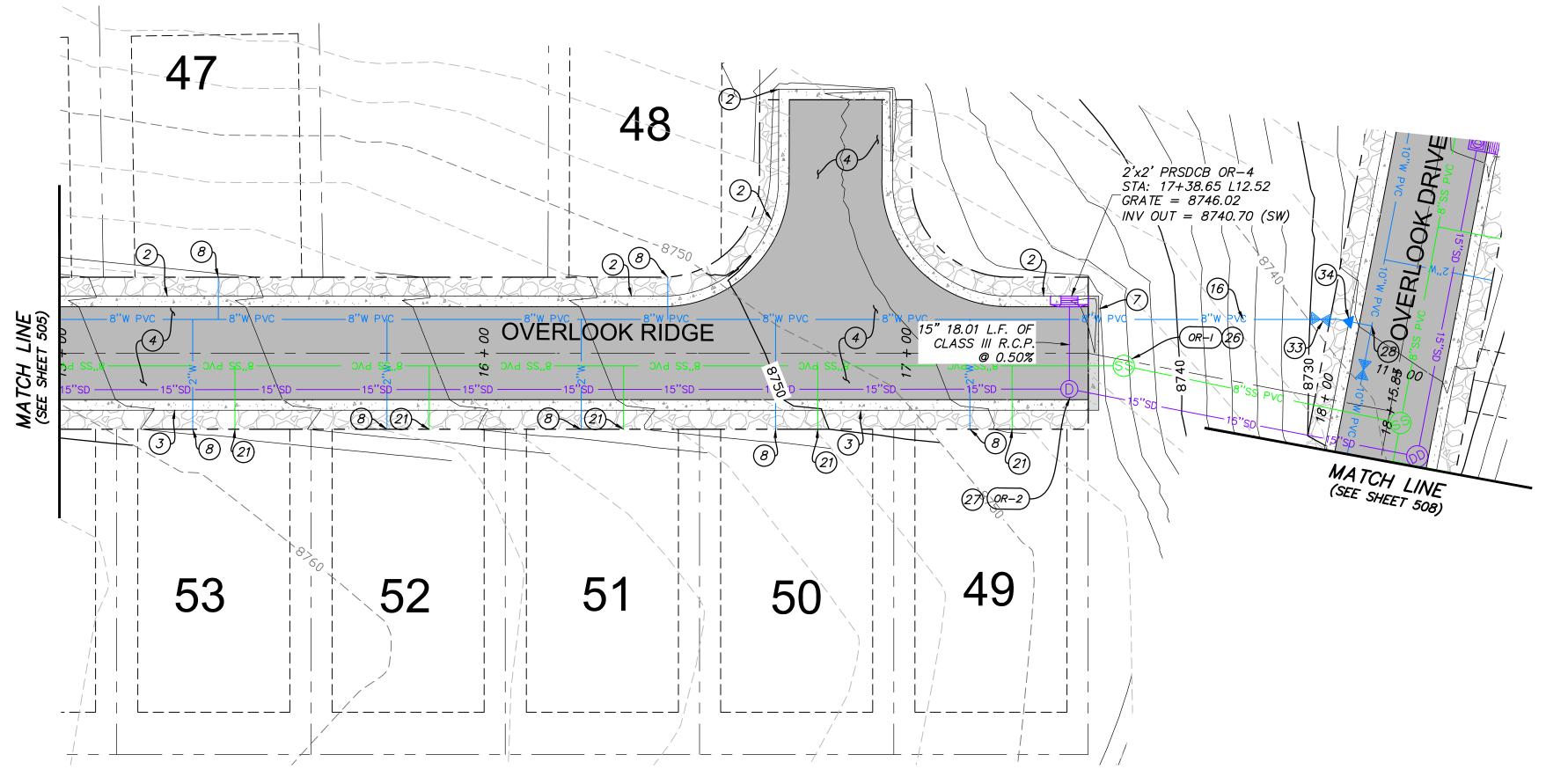


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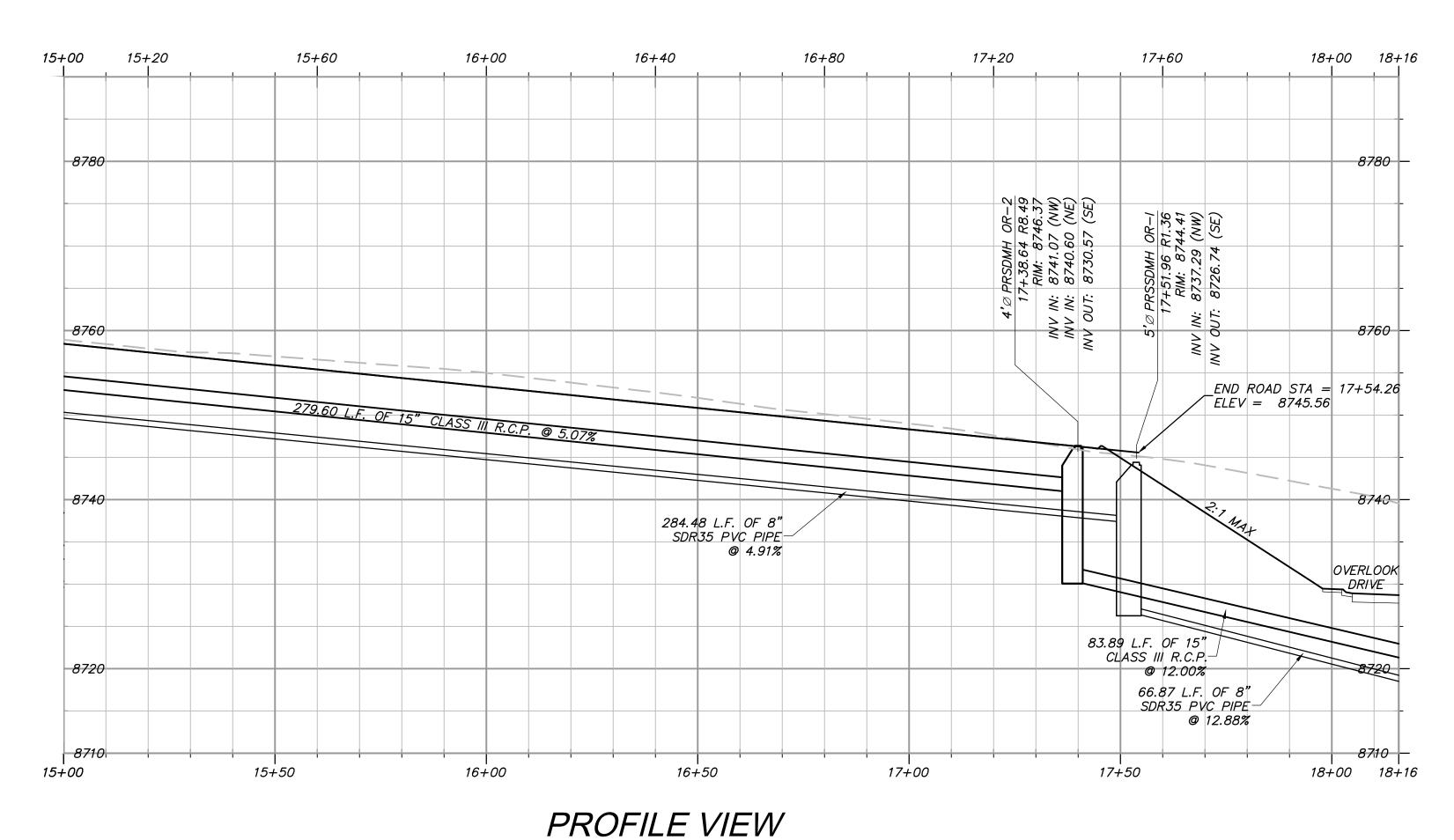
**5217 SOUTH STATE STREET** SUITE 200 MURRAY, UT 84107

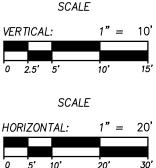
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# **OVERLOOK RIDGE**

STA: 15+00 TO 18+16



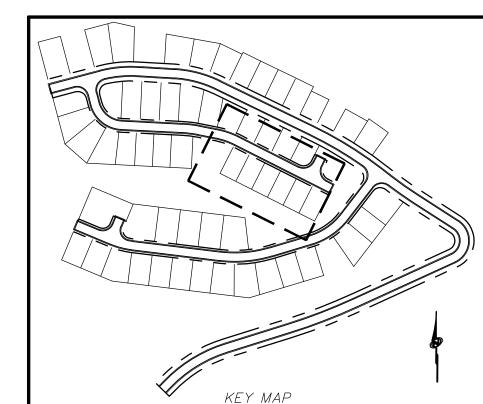


# SITE SCOPE OF WORK:

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AND PROFILE

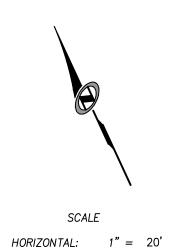
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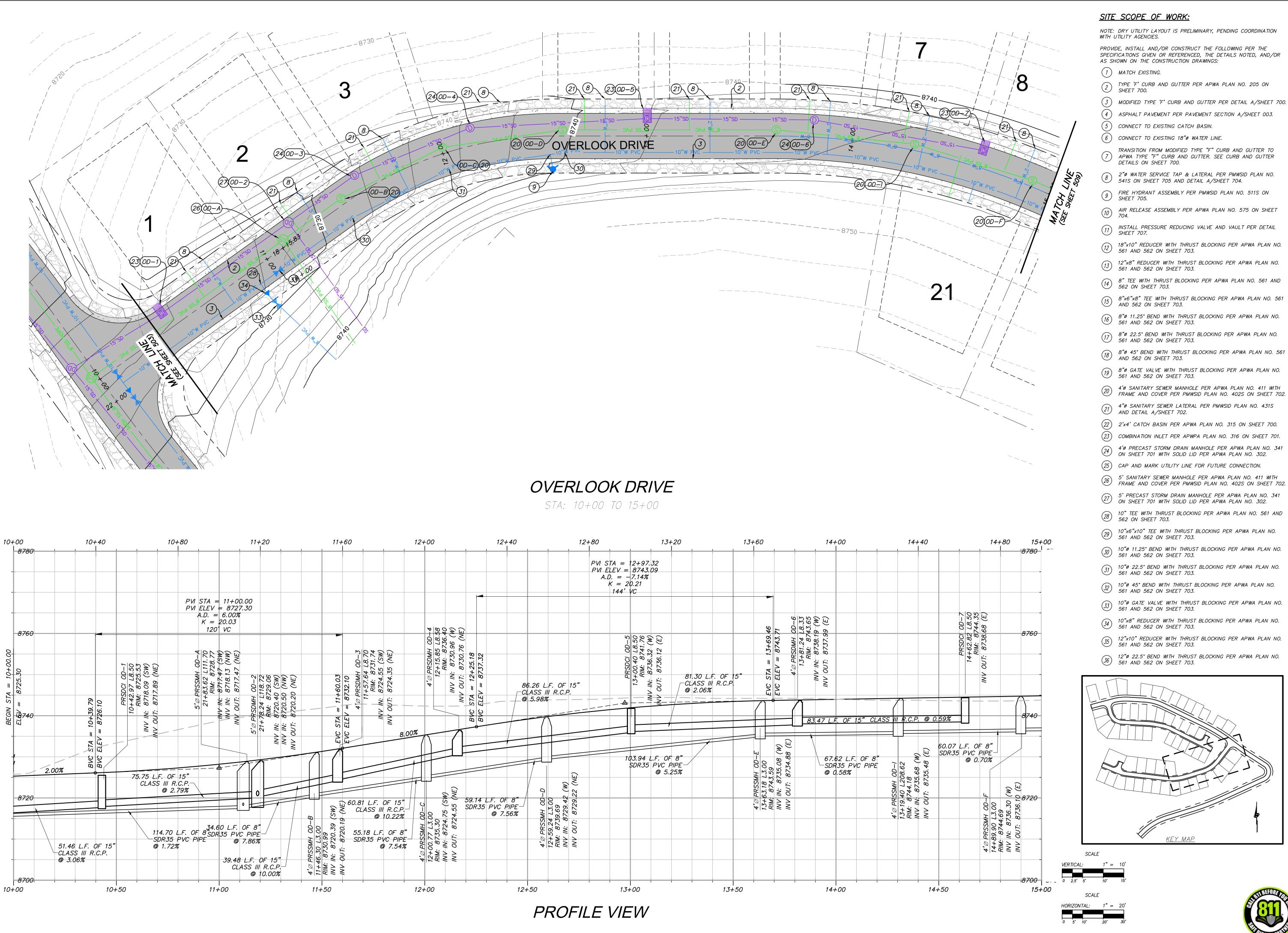
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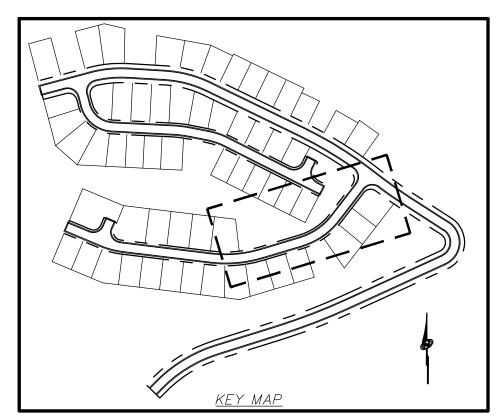
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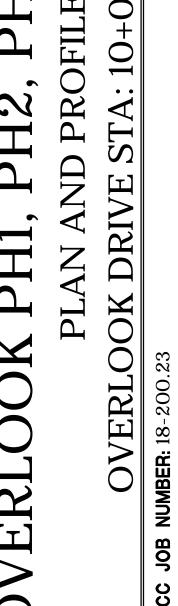


- 2"ø WATER SERVICE TAP & LATERAL PER PMWSID PLAN NO.
- AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575 ON SHEET

- 4'Ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341





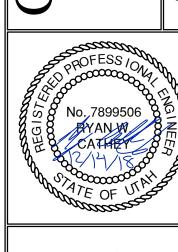


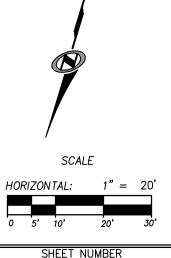
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5217 SOUTH STATE STREET

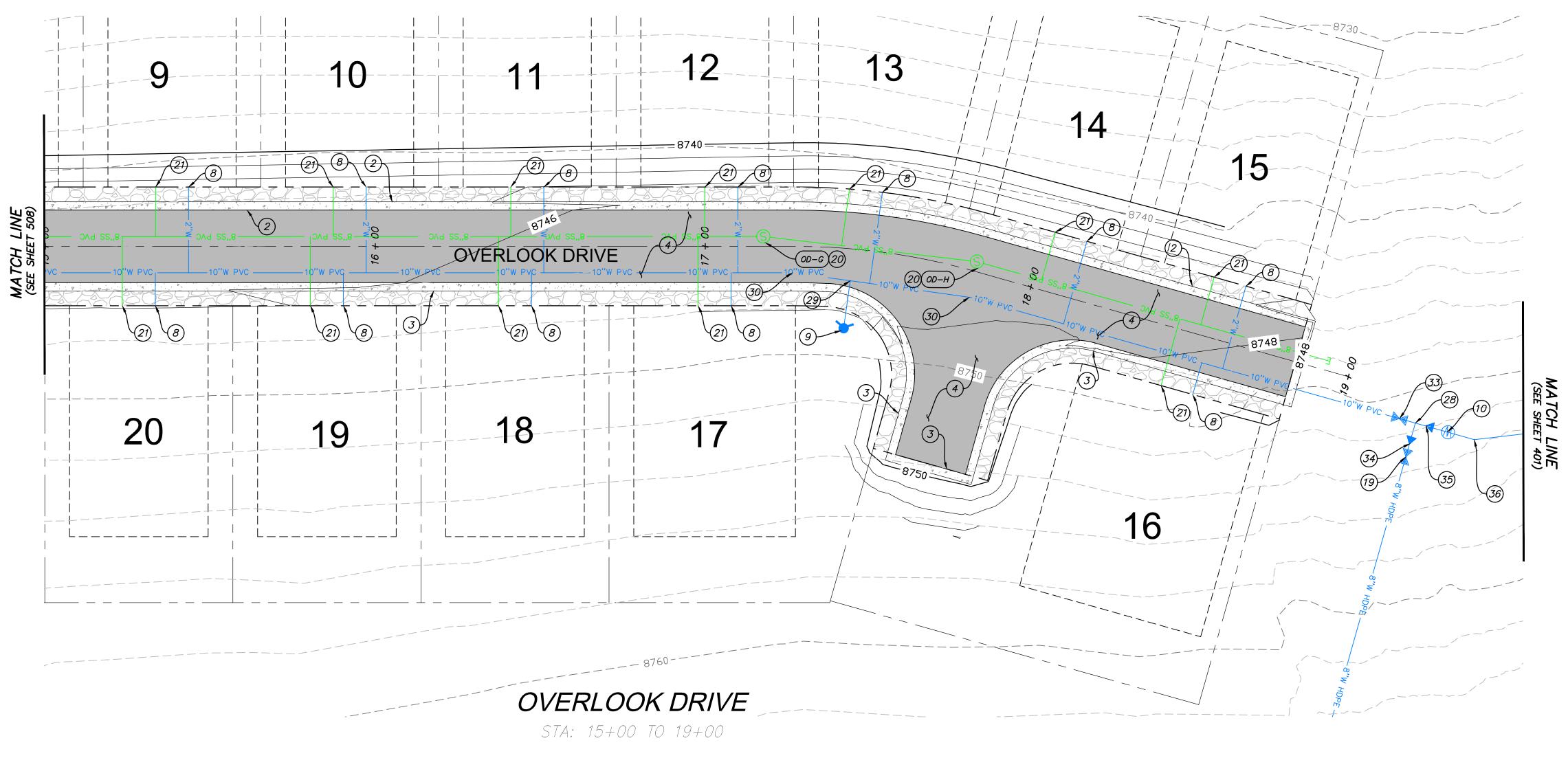
SUITE 200 MURRAY, UT 84107

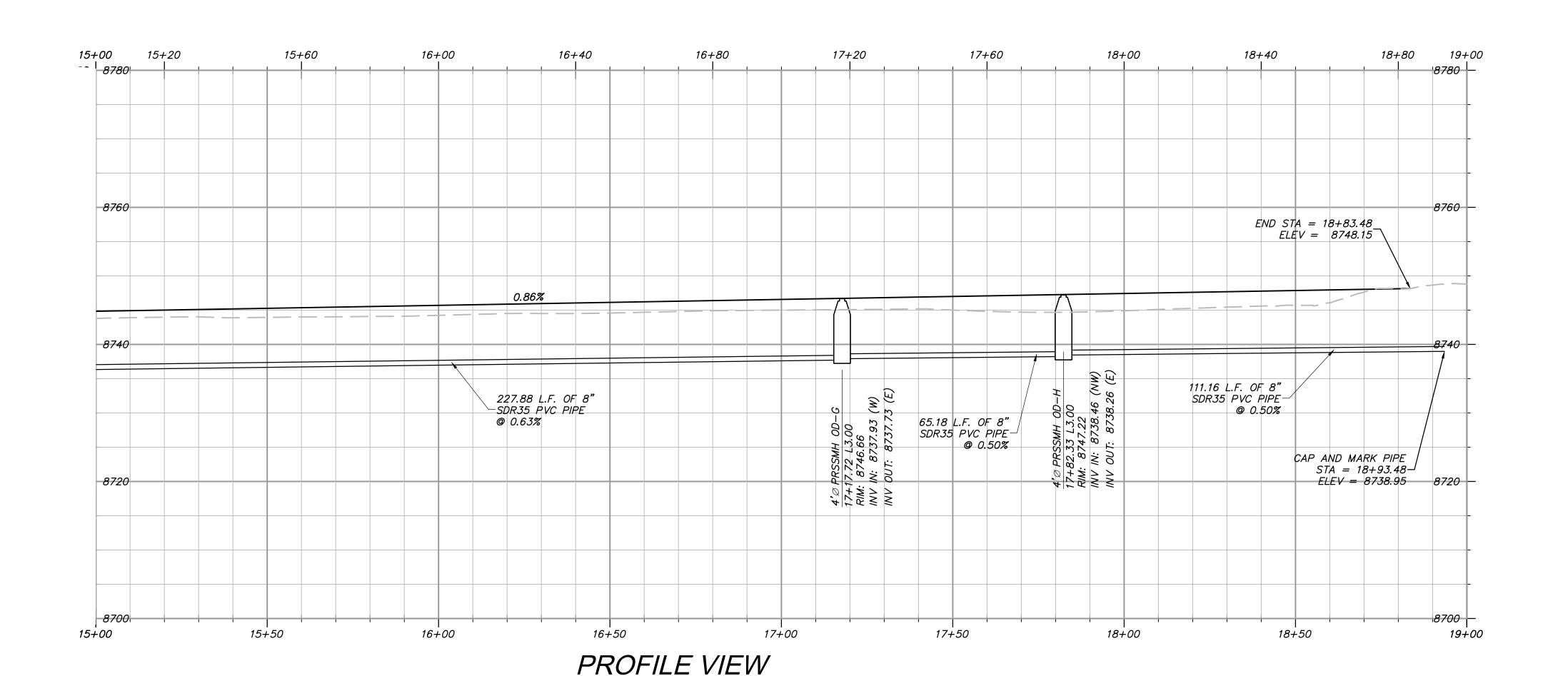
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SHEET NUMBER





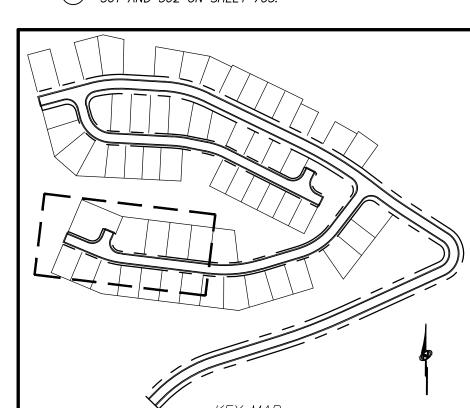
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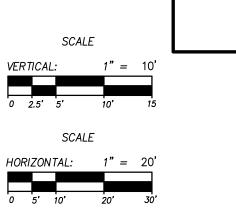
WITH UTILITY AGENCIES.

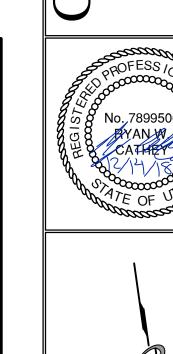
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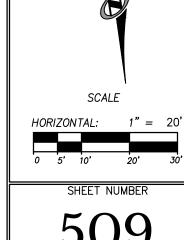
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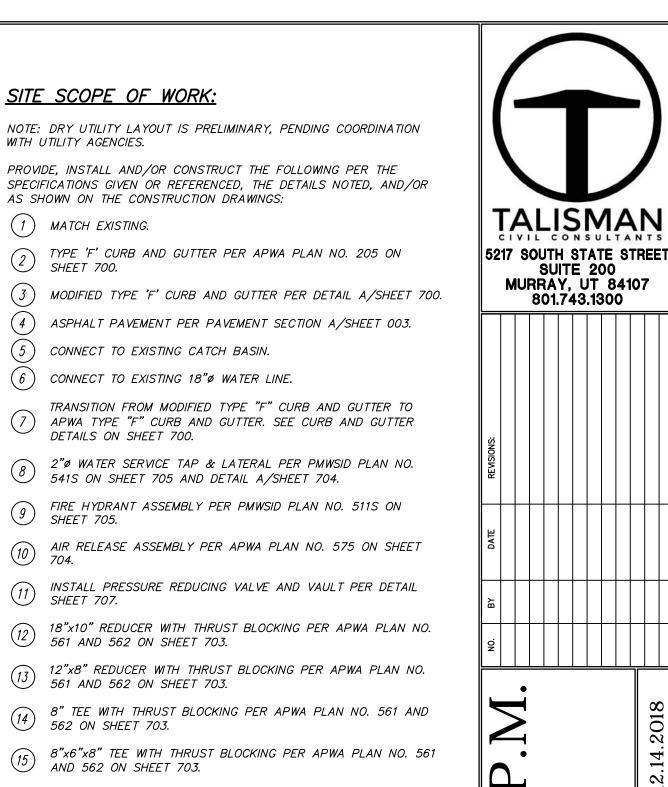


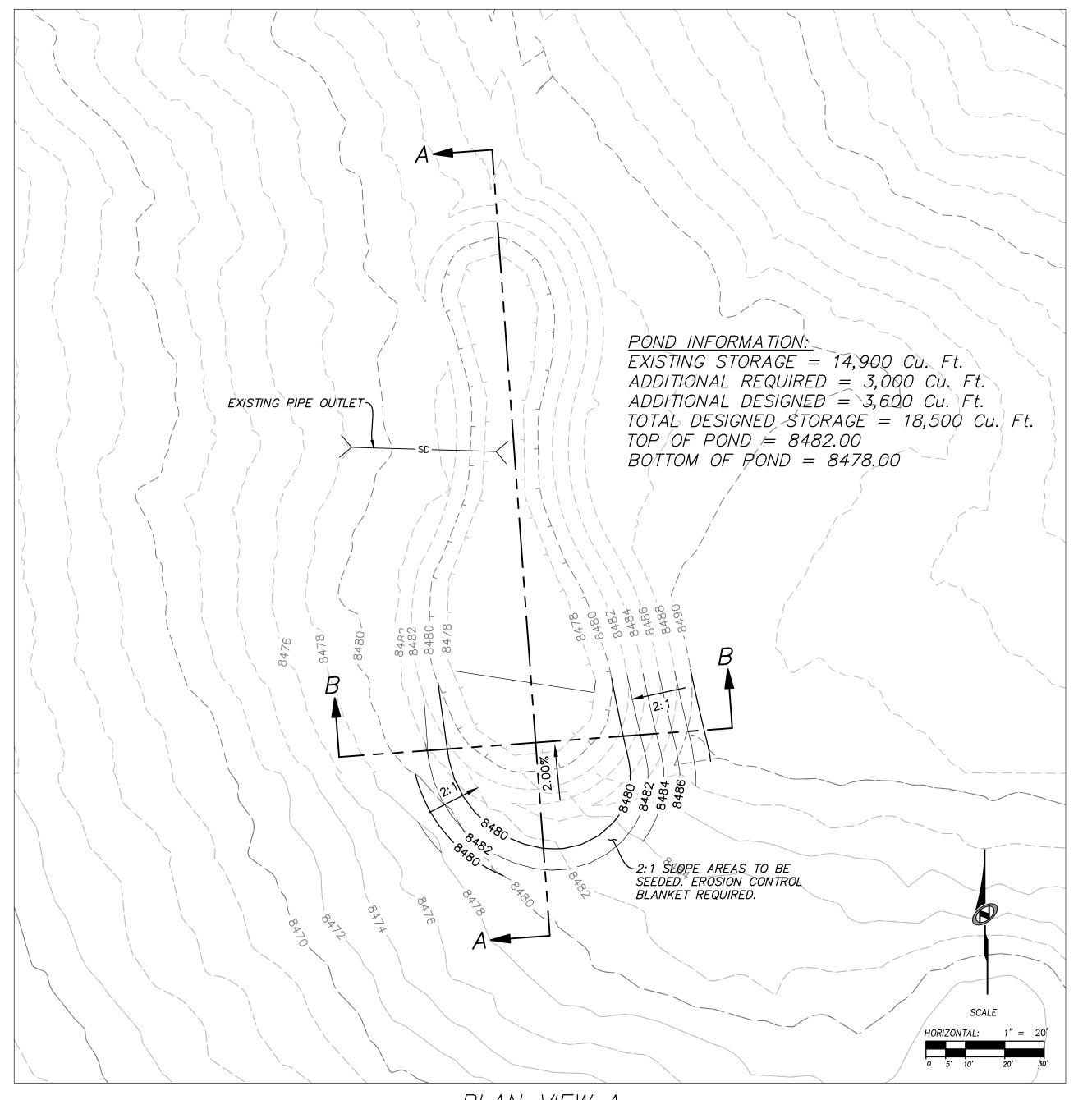










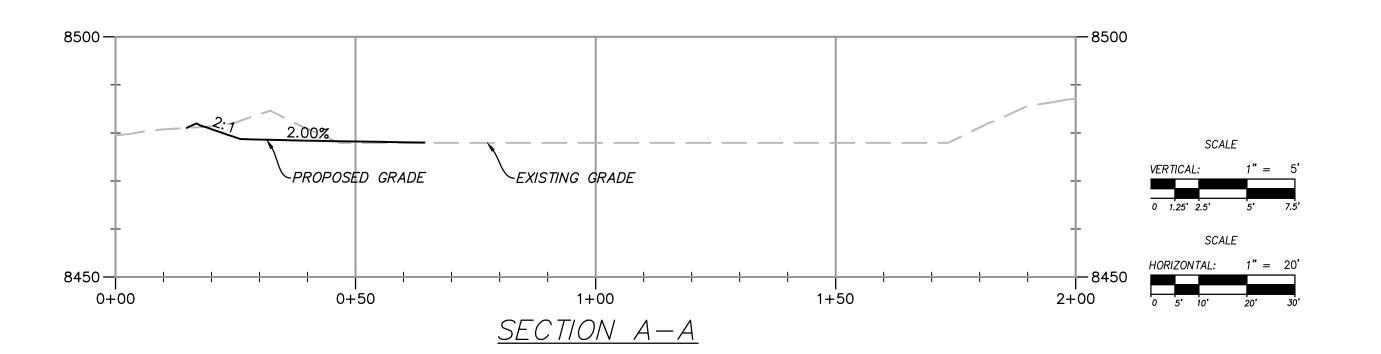


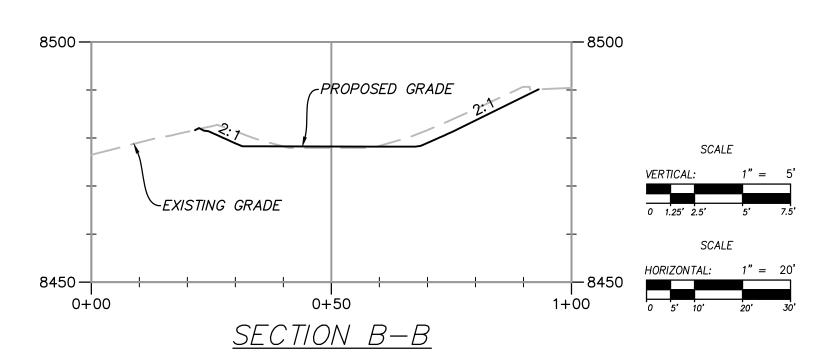
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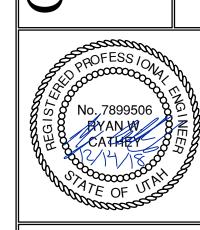
<u>PLAN VIEW A</u>



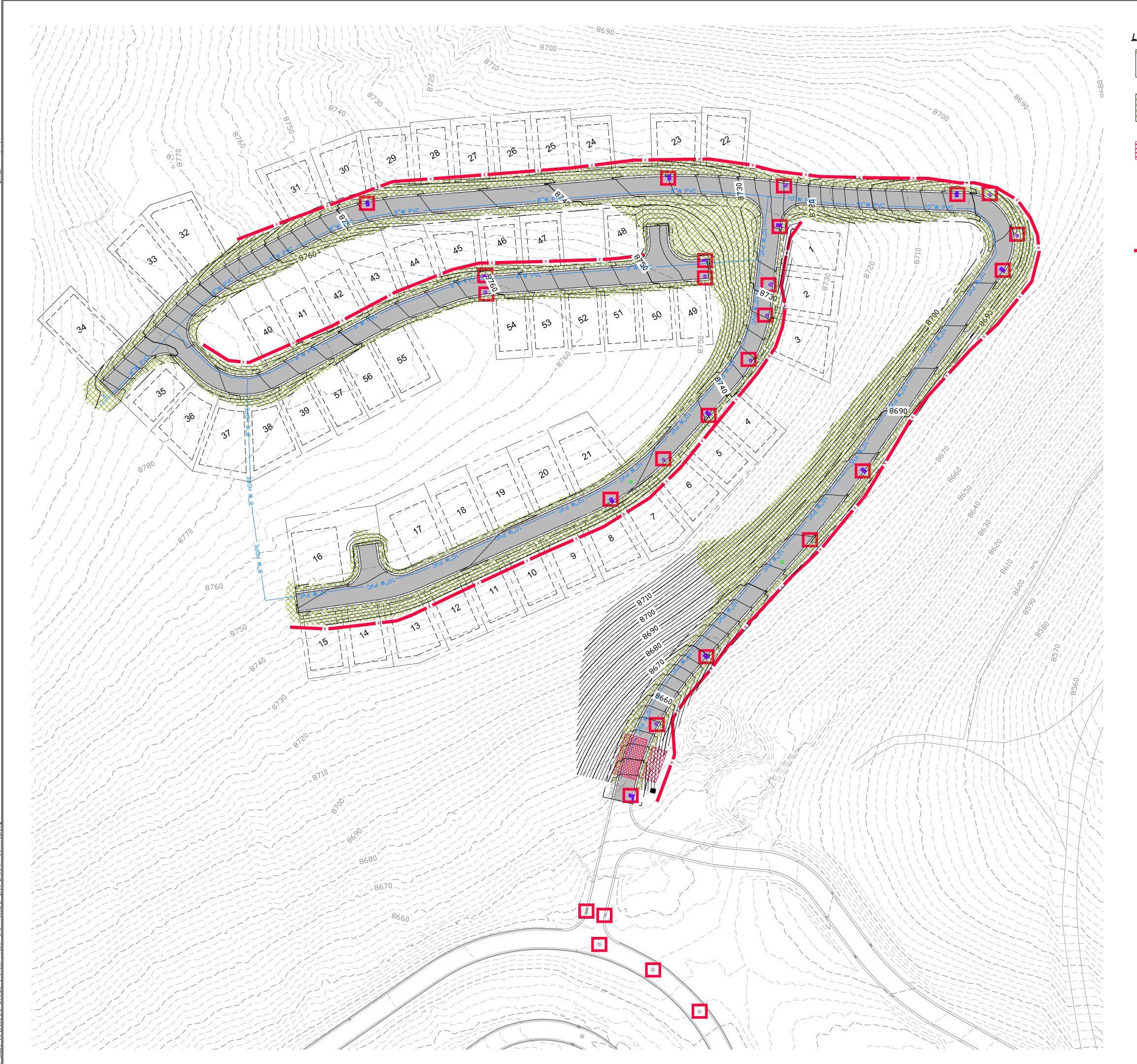




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# <u>LEGEND</u>



HATCHING INDICATES AREAS LESS THAN 3:1 SLOPE TO BE SEEDED FOR REVEGETATION.



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.



INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.



INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.

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. 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







- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73. C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete
- crazing (spider cracks) may develop if air temperature exceeds 90 degrees F. D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

# 3. EXECUTION

- A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flowline grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- B. Concrete Placement: APWA Section 03 30 10. 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion

3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent. C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

28

joints are not required in concrete placement using slip-form construction. 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.

# MODIFIED TYPE "F" CURB AND GUTTER

Δ Δ Δ Δ Δ

A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.

Catch basin

# 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: Class 4000, APWA Section 03 30 04.
- D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.

# 3. EXECUTION

- A. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- B. Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "warp line" in the gutter flow-line and the top of the grate at the
- C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
- D. Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. 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.

# Catch basin

# 1. GENERAL

A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.

## 2. PRODUCTS

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- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches. C. Concrete: Class 4000, APWA Section 03 30 04.
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# 3. EXECUTION

- A. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- B. Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "warp line" in the gutter flow-line and the top of the grate at the curb face opening.
- C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
- D. Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. 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.

# 47 3/4" Grate and frame

# 1. GENERAL

A. The grate and frame fits cleanout box Type A in Plan 331.

# 2. PRODUCTS

A. Castings: Grey iron class 35 minimum per ASTM A 48, coated with asphalt based paint or better (except on machined surfaces).

**VANE GRATE** 

**3. EXECUTION** (Not used)

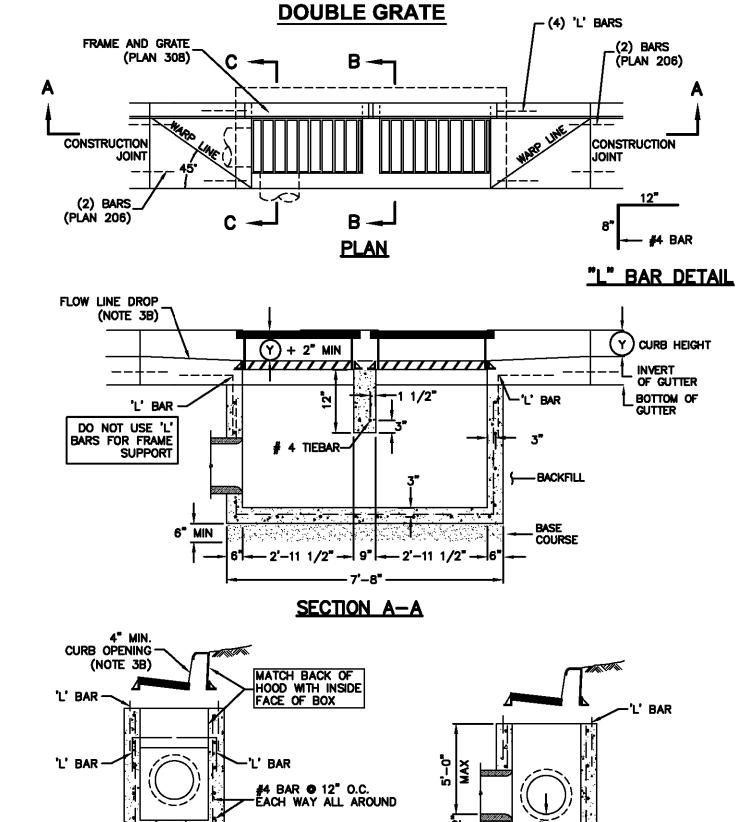
FRAME

3/4벨

154

SINGLE GRATE

156



BACKFILL BEHIND CURB BEFORE PAVING AGAINST LIP OF GUTTER CONCRETE AREA = 1.539 SQ. FT. <u>Type F</u> Type E ONCRETE AREA = 1.970 Type G Type H EXISTING CONCRETE (NOT IN CONTRACT) DOWELLED COLD JOINT (SEE PLAN 206)

JOINT DETAIL

Curb and gutter

April 2011

SECTION D-D **DETAIL** 

**GRATE** 

SECTION C-C

'L' BAR — #4 BAR • 12" O.C. EACH WAY ALL AROUND 3'-0"--

SECTION C-C

- BACKFILL

315

SECTION B-B

157





700

TCC JOB NUMBER: 18-200.23

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5217 SOUTH STATE STREET SUITE 200 MURRAY, UT 84107

801.743.1300

C

SECTION A-A

SECTION B-B

47 3/4" Grate and frame 149

309

155

'L' BAR -

DO NOT USE 'L' BARS FOR FRAME SUPPORT

SECTION B-B

Catch basin

SECTION A-A

(Y)+ 2" MIN

F 4 4 4 4 4 4

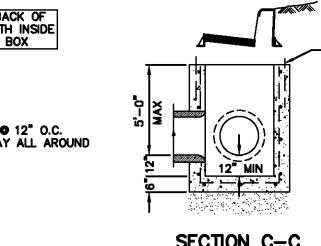
"L" BAR DETAIL

( Y ) CURB HEIGHT

INVERT

BOTTOM OF

'|<del>---</del>2'-0<del>"--</del>|(



SECTION C-C

Catch basin - double grate

connection locations or refer to field location of existing piping when engineering

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel

B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.

A. The drawing shows typical pipe connections. Refer to construction drawings for

as a base course without ENGINEER's permission.

D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.

C. Concrete: Class 4000, APWA Section 03 30 04.

pipe connection to the box.

1. GENERAL

# 1. GENERAL

A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe

Precast manhole

- connection to the manhole. B. Manhole size.
- 1) Diameter is 4-feet: For pipe under 12" diameter.
- 2) Diameter is 5-feet: For pipe 12" and larger, or when 3 or more drain pipes intersect the manhole.
- C. Wall thickness:
- 1) Precast reinforced concrete walls 4 3/4" minimum.
- 2) Cast-in-place concrete to be 8 inches thick minimum.

# E. Ladder Rungs: Plastic, or plastic coated steel typically 8-inches wide.

- 3. EXECUTION A. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8inches before compaction. Compaction is 95 percent or greater relative to a
  - modified proctor density, APWA Section 31 23 26. B. Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "begin warp" line in the gutter flow-line and the top of the grate at
  - the curb face opening. C. Ladder Rungs: Provide rungs in boxes over 6 feet deep. When measured from the floor of the box, place bottom rung the greater distance of 4 feet from the floor of the box or 1 foot above the top of the pipe. Place top rung within 3 feet of bottom of box
  - D. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

158

E. Backfill: Provide backfill against all sides of the box. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. 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.

# 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: Class 4000, APWA Section 03 30 04.
- D. Riser and Reducing Riser: ASTM C 478.
- E. Joint Sealant: Rubber based, compressible. F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
- G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

# 3. EXECUTION

- A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a sewer rock in a geotextile wrap to stabilize an unstable foundation.
- B. Base Course Placement: APWA Section 32 11 23. 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.
- C. Invert cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
- D. Concrete Deck or Reducing Riser: When depth of manhole from pipe invert to finish grade exceeds 7 feet, use an ASTM C 478 reducing riser.
- E. Pipe Connections: Grout around all pipe openings.
- F. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
- G. Joints: Place flexible sealant in all riser joints. Finish with grout.
- H. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish
- I. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.

**CAST IN PLACE BASE** 

J. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. 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.

A. The drawing applies to backfilling the trench above the pipe zone.

A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches. B. 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.

Trench backfill

# 3. EXECUTION

- A. Trench Backfill:
  - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench
- 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
- 3) Water jetting is NOT allowed.
- 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
- B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
- C. Surface Restoration: 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to
  - match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
- 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).

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# Pipe zone backfill

# 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

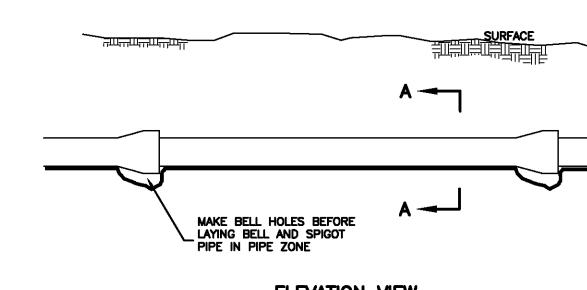
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Concrete: APWA Section 03 30 04. D. Flowable Fill: Target is 60 psi in 28 days with 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

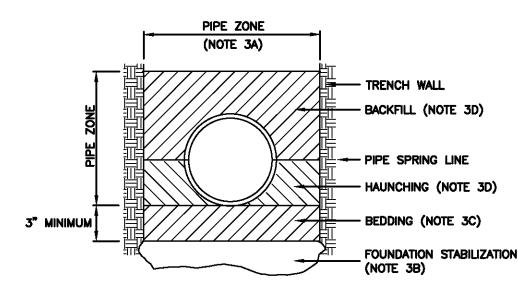
- A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
- B. Foundation Stabilization: Get ENGINEER's permission before installing common 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. Base Course: 1) Furnish untreated base course material unless specified otherwise by pipe
- manufacturer.
- 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23
- 3) When using concrete, provide at least Class 2,000 per 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.

204

3) Reset pipe to line and grade if pipe "floats" out of position.



# **ELEVATION VIEW**



# SECTION A-A

# INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479 "Standard practice for installation of precast concrete sener

PVC AND HDPE PIPE: FOLLOW ASTM D 2321

CORRUGATED METAL PIPE: FOLLOW ASTM A 798

VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.

382

TALISMAN

5217 SOUTH STATE STREET

SUITE 200 MURRAY, UT 84107

801.743.1300

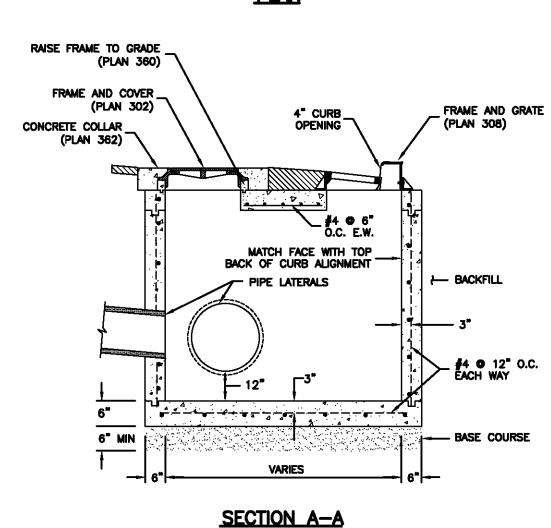
**SUBMITTED:** 12.14.2018

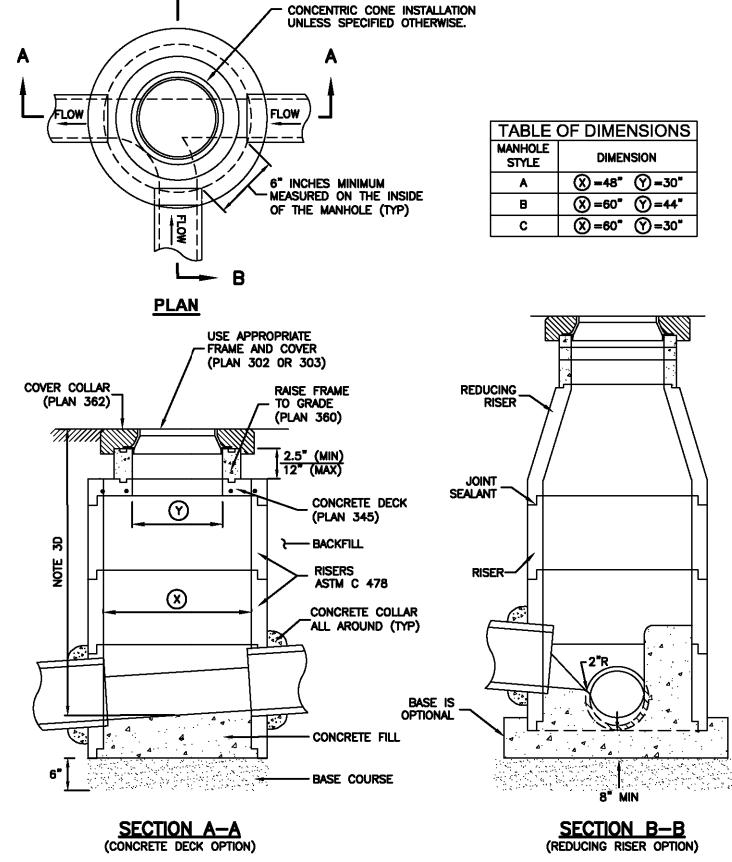
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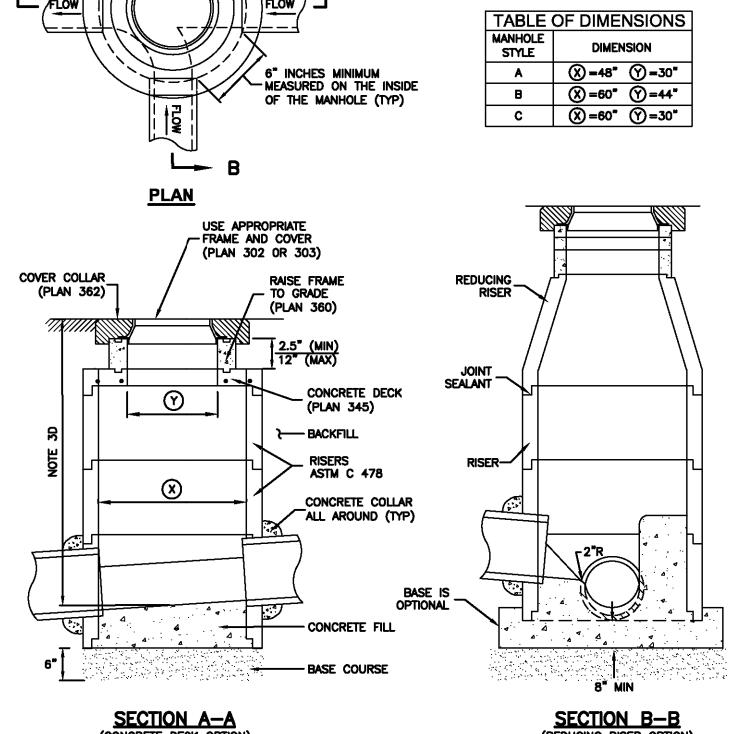
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<del>--|</del>1'-3"|<del>--</del> <u>PLAN</u>







PAVEMENT RESTORATION (PLAN 255 OR 256)

BACKFILL

(NOTE 3A)

PIPE ZONE

(SEE DRAWINGS

OR PLAN 382)

LANDSCAPE RESTORATION

MAGNETIC MARKING TAPE

BELOW FINAL SURFACE

FLOWABLE FILL ALLOWED ONLY TO THE TOP OF THE

MAX. DEPTH = 18" —

Trench backfill

EXISTING PAVEMENT

F DEPTH OF TRENCH IS

GREATER THAN 4 FEET AND SHORES OR TRENCH

SUPPORTS ARE NOT USED,

SLOPES ARE REQUIRED.

SEE OSHA REGULATIONS

381

January 2011

Pipe zone backfill

March 2011

Combination catch basin and cleanout box 316

Precast manhole

205

# Sanitary sewer manhole

# 1. GENERAL

- A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
- B. Manhole size.
- 1) Diameter is 4 feet: For sewers under 12" diameter.
- 2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.

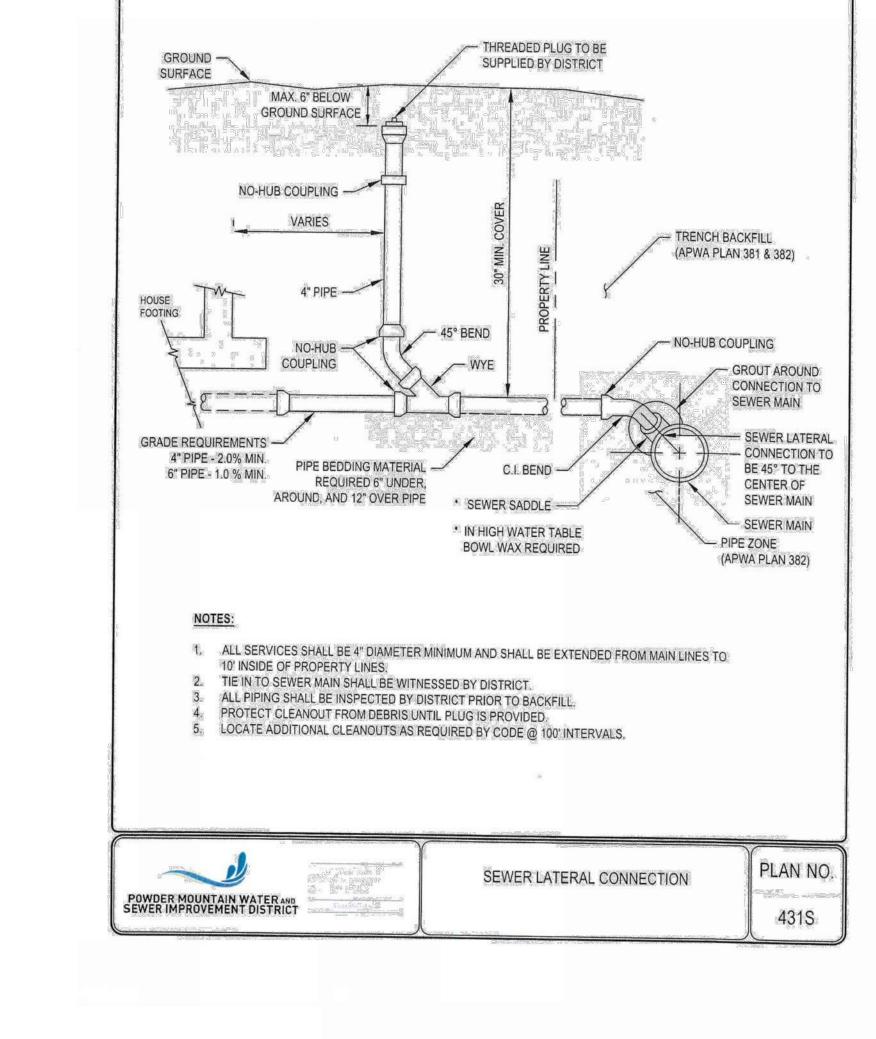
# 2. PRODUCTS

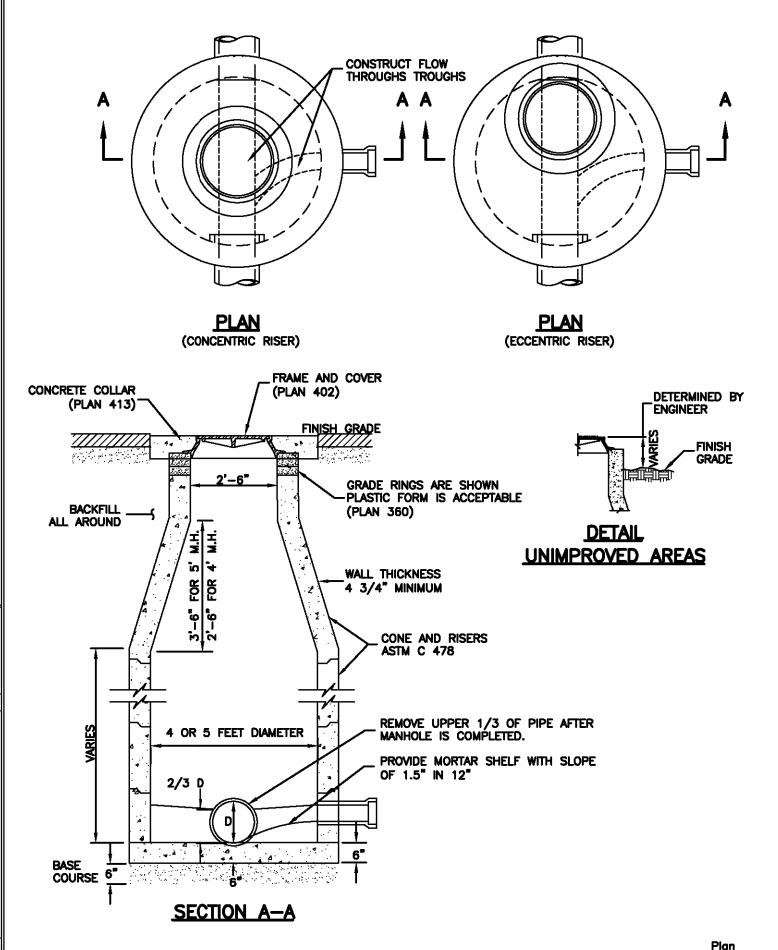
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Concrete: Class 4000, APWA Section 03 30 04. D. Riser and Reducing Riser: ASTM C 478.
- E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
- F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
- G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

# 3. EXECUTION

- A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
- B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- C. Invert Cover. During construction, place invert covers over the top of pipe in
- manholes that currently convey sewerage. See Plan 412. D. Pipe Connections: Grout around all pipe openings.
- E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
- F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.
- G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
- H Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings.
- Imperfect moldings or honeycombs will not be accepted. I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. 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.

212



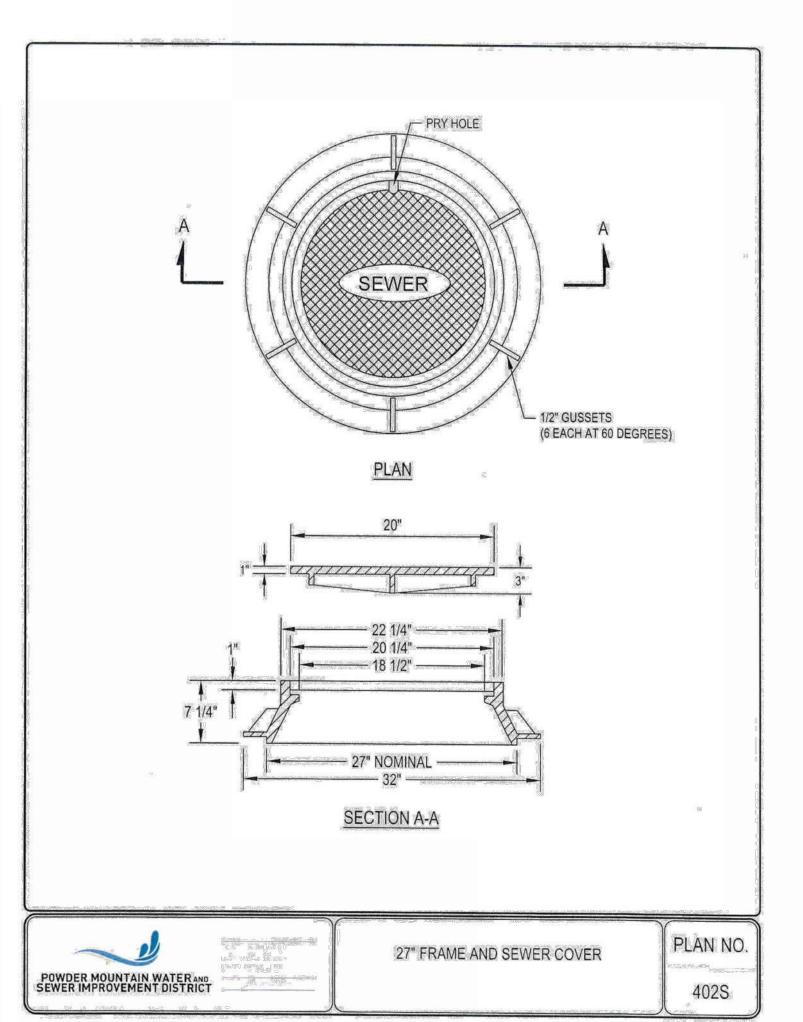


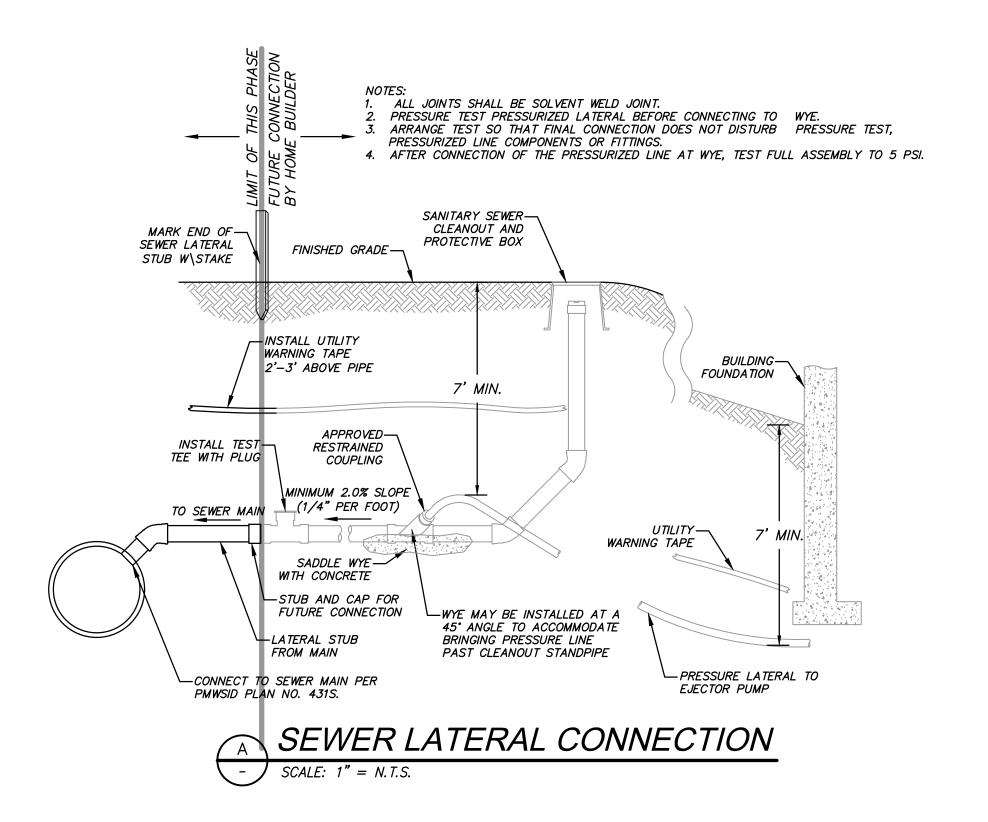
Sanitary sewer manhole

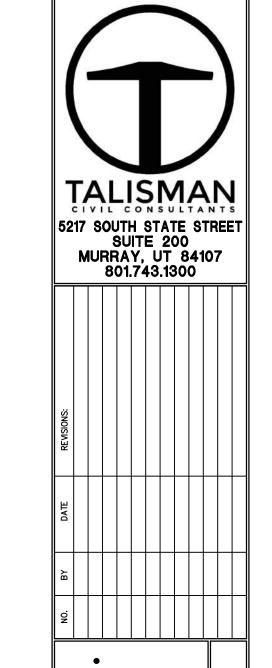
213

April 2011

411







S S



B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take

C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel

B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.

C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet

D. Locking restraint devices may be used in conjunction with concrete thrust blocking

E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before

compaction. Compaction is 95 percent or greater relative to a modified proctor

pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating

pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength

A. Thrust design for pipe sizes or configurations not shown require special design.

D. Before backfilling around thrust block, secure inspection of installation by

as a base course without ENGINEER's permission.

C. Thrust Bocks: Concrete Class 4000, APWA Section 03 30 04.

B. Pipe Joints: Do not cover with concrete. Leave completely accessible.

# 1. GENERAL

- A. Thrust design for pipe sizes or configurations not shown require special design.
- B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.

Tie-down thrust restraints

- C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength will require special design.
- D. Before backfilling around thrust block, secure inspection of installation by ENGINEER.

# 2. PRODUCTS

- as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- D. Reinforcement: Deformed, steel, ASTM A 615. Give bars an epoxy coating at least 15 mils thick. Minimum stress yield strength of steel tie-down bars is 70,000 ksi.
- E. Grease: Non-oxide poly-FM.

- A. Pour concrete against undisturbed soil. Concrete must be allowed to cure in thrust restraints for 5 days before pressurizing water lines or have additional approved thrust restraints installed before pressurizing the water line.
- B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
- C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet
- E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor

268

# 4" washout valve

# 1. GENERAL A. Before backfilling, secure inspection of installation by ENGINEER.

B. Water mains 12-inches and larger will require a special washout assembly design.

# 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: Class 4000, APWA Section 03 30 04.

# 3. EXECUTION

- A. Pour concrete against undisturbed soil.
- B. Apply tape wrap to the exterior of all galvanized pipe per AWWA C209. C. Place plastic sheet at least 6 mils thick over drain gravel to prevent silting.
- D. After installation of washout valve assembly, verify the washout valve riser drains to
- E. Backfill and Base Course Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater of a modified proctor density, APWA Section 31 23 26.

270

IF COVER COLLARS ARE REQUIRED, SEE PLAN 574

\* DISH OUT CONCRETE AS NECESSARY. DO NOT ENCASE VALVE

DOME OR OPERATING-NUT IN THE CONCRETE

PLUG OR CAP AS -NECESSARY WITH 4" THREADED TAP

# Cover collar for water valve box

# **GENERAL**

A. In a pavement surface, fill an annular space around a frame and cover casting with concrete. The concrete will support the casting under traffic loadings.

# 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. Concrete: Class 4000, APWA Section 03 30 04. C. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.

# 3. EXECUTION

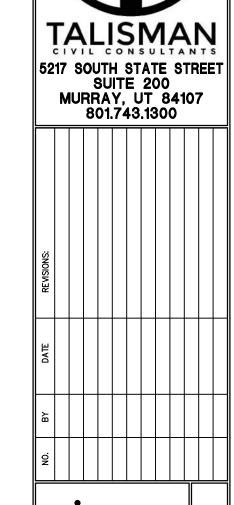
- A. Base Course: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23
- B. Pavement Preparation: Provide a neat vertical and concentric joint between concrete collar and existing asphalt concrete surface. Clean edges of all dirt, oil, and loose debris.

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ASPHALT CONCRETE (THICKNESS VARIES)

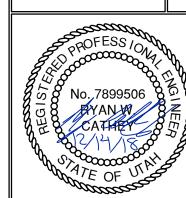
(ONLY TOP OF VALVE BOX RISERIS SHOWN) SLIP SLEEVE -

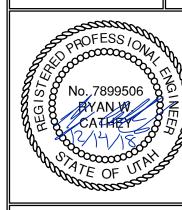
**CONCRETE PAVEMENT** 

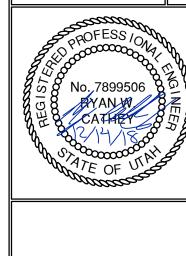


S S

H







1. GENERAL

precedence over this plan.

will require special design.

D. Grease: Non-oxide poly-FM.

A. Pour concrete against undisturbed soil.

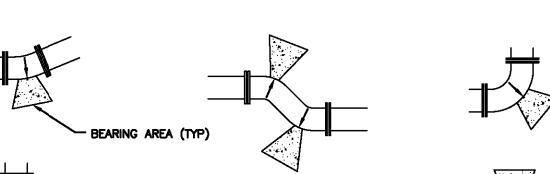
(at discretion of ENGINEER).

density, APWA Section 31 23 26.

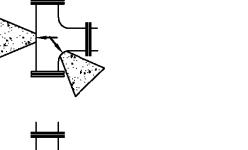
ENGINEER.

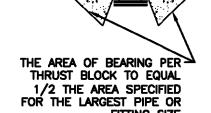
2. PRODUCTS

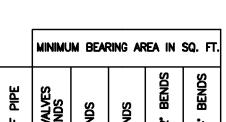
3. EXECUTION

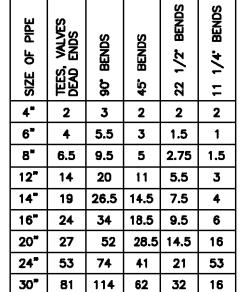


266





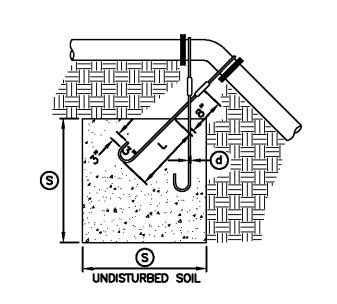




- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel
- C. Concrete: Class 4,000 minimum, APWA Section 03 30 04.

# 3. EXECUTION

- D. Locking restraint devices may be used in conjunction with concrete thrust blocking
- (at discretion of ENGINEER). density, APWA Section 31 23 26.



		TYPE A RESTRAINT	
OR	11	1/4" - 22 1/2" VERTICAL BENDS	

UNDISTURBED SOIL

TΔ	BL	F O	F D	IMFN	 1SIO1	JS	
• • • • • • • • • • • • • • • • • • • •				<u>s</u>	<b>a</b>	<u>.</u>	
PIPE SIZE NOMINAL DIAMETER - INCH VERTICAL BEND IN DEGREES		CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CUBE - FEET (	DIAMETER OF SHANK OR (REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET		
4"	11	1/4°	8	2.0	5/8"	1.5	
*	22	1/2	15.6	2.5	5/8"	2.0	
6"	11	1/4	15.6	2.5	5/8"	2.0	
· ·	22	1/2*	34.3	3.25	5/8"	2.0	
8"	11	1/4	27	3.0	5/8"	2.0	
0	22	1/2°	64	4.0	5/8"	2.0	
12"	11	1/4	64	4.0	5/8"	2.0	
	22	1/2	125	5.0	3/4"	3.0	L
16"	11	1/4"	107	4.25	7/8*	3.0	
	22	1/2	216	6.0	7/8"	3.0	L
20"	11	1/4	138	5.17	1"	3.5	
	22	1/2°	334	6.94	1"	4.0	L
24"	11	1/4°	240	6.22	1"	4.0	
	22	1/2	476	7.81	1*	4.0	L
30"	11	1/4"	369	7.17	1"	4.0	
~~							

TYPE B RESTRAINT FOR 45° VERTICAL BENDS

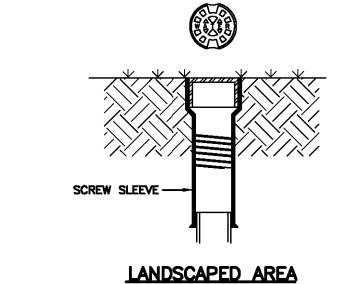
TABLE OF DIMENSIONS						TAE	BLE O	F DI	MEN	SION	IS
	,		S	<b>(b)</b>	(L)				<u></u>	<b>(</b>	(L)
PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CUBE - FEET	DIAMETER OF SHANK OR REBAR RODS — INCH	DEPTH OF ROD CONCRETE - FEET	PIPE SIZE NOMINAL DIAMETER — INCH	Vertical bend In Degrees	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CUBE - FEET	DIAMETER OF SHANK OR REBAR RODS — INCH	DEPTH OF ROD CONCRETE — FEET
4"	11 1/4° 22 1/2°	8 15.6	2.0	5/8* 5/8*	1.5 2.0	4"	45"	1	3.0	5/8" 5/8"	2.0
6"	11 1/4° 22 1/2°	15.6 34.3	2.5 3.25	5/8° 5/8°	2.0 2.0	6"		2.37	4.0	5/8" 5/8"	2.5
8"	11 1/4° 22 1/2°	27 64	3.0 4.0	5/8" 5/8"	2.0	8"		3.97	4.75	5/8" 5/8"	3.0
12"	11 1/4° 22 1/2°	64 125	4.0 5.0	5/8* 3/4*	2.0 3.0	12"		9.04	6.25	5/8" 5/8"	4.0
16"	11 1/4° 22 1/2°	107 216	4.25 6.0	7/8° 7/8°	3.0 3.0	16"		17.24	7.75	3/4" 3/4"	4.0
20"	11 1/4° 22 1/2°	138 334	5.17 6.94	1"	3.5 4.0	20"		26.52	92.17	3/4" 3/4"	4.0
24"	11 1/4° 22 1/2°	240 476	6.22 7.81	1"	4.0	24"		37.82	10.07	3/4" 3/4"	4.0
30"	11 1/4° 22 1/2°	369 733	7.17 9.02	1"	4.0 4.0	30"		58.26	11.63	3/4" 3/4"	4.0
	22 1/2	,	7.72	'	7.♥					<b>5</b> / ₹	

LEGEND DESCRIPTION (A) VALVE BOX WITH LID 2 PIECE CAST IRON B 4" GATE VALVE WITH SCREW ENDS 2" x 2" OPERATING NUT C | CONCRETE THRUST BLOCK | PLAN 561

\_4" THREADED

\_4" GALVANIZED

IRON PIPE WITH ADAPTER



**ASPHALT CONCRETE** 

CONCRETE TO BE SET 1/2" MIN. TO 1/2" MAX. BELOW\_ PAVEMENT LIP ALL

SLIP SLEEVE -

574

Direct bearing thrust block

561

Tie-down thrust restraints

562

271

4" Washout valve

" GALVANIZED IRON PIPE

WITH 3" SCREW ON CAP

571

Cover collar for water valve box

August 2010

February 2011

277

# Air release assembly

# 1. GENERAL

- A. This drawing detail is applicable to water main piping less than 16-inches diameter.
- B. PCCP, steel, MLAC and other water main pipe materials will require special detail or design drawings. Submit the design and detail drawings and materials to the
- will require a special design to be provided by the ENGINEER.

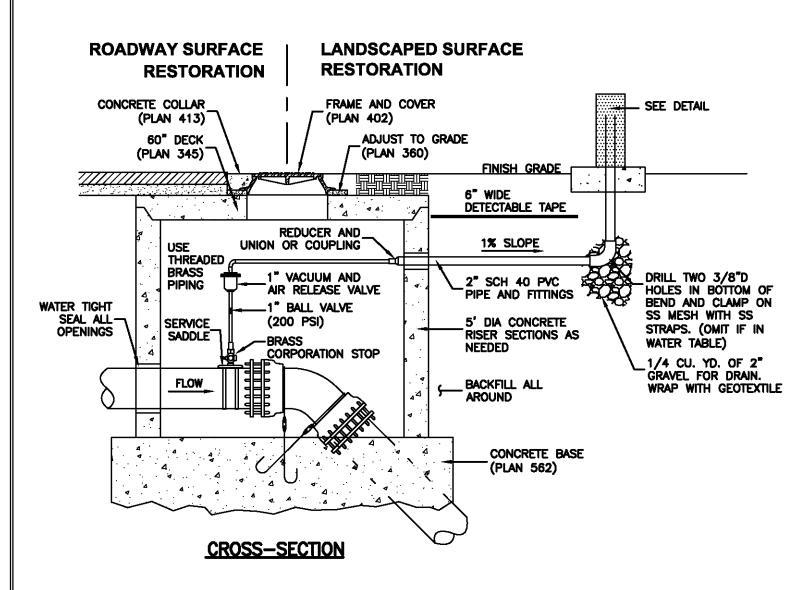
- B. Drain Gravel: Sewer rock, ASTM size no. 3 (2" to 1") or equal, APWA Section 31 05

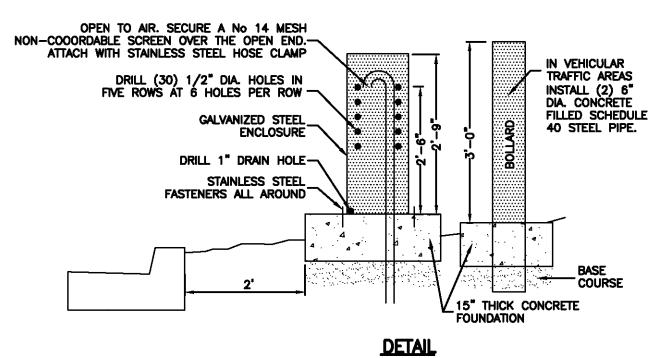
- E. Manhole: Riser, ASTM C 478.
- F. Reinforcement: Deformed, steel, ASTM A 615. Give bars an epoxy coating at least
- H. PVC Pipe and Fittings: Schedule 40, APWA Section 33 05 07.
- I. Water Tight Wall Seal: Waterproof, compressible.

# 3. EXECUTION

- C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges.
- D. Service saddle is required on all PVC and AC pipe taps unless specified otherwise. Ductile iron and cast iron pipe may be direct tapped.
- F. Follow applicable AVWVA and NSF standards when connecting piping.
- G. If diameter of air relief valve is greater than 2-inches, provide piping to match its diameter from water main connection to open to air.

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Air release assembly 279

February 2011

575

ENGINEER for review before installation. C. Installation in areas of high ground water or potential for water entering the vent pipe

D. Before backfilling around the assembly, secure inspection of installation by ENGINEER.

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.

C. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.

D. Concrete: Class 4000, APWA Section 03 30 04.

15 mils thick. Minimum stress yield strength of steel tie-down bars is 70,000 ksi.

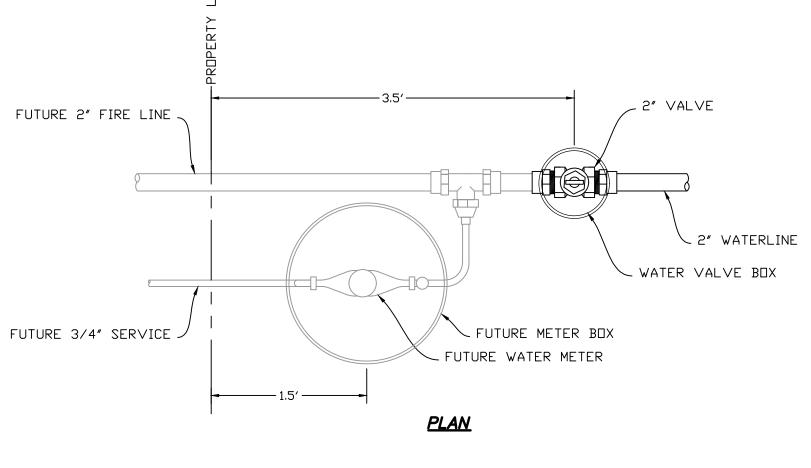
G. Small Fittings: Brass. Do not use galvanized materials.

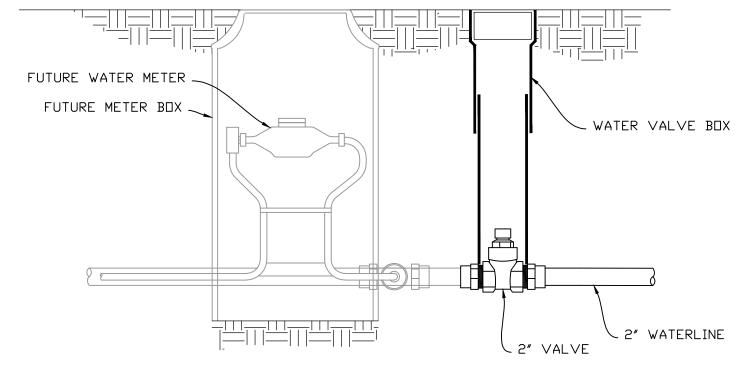
A. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

B. Apply tape wrap to the exterior of all buried steel pipe per AWWA C209.

Apply a broom finish. Apply a curing agent.

E. Seal manhole joints water-tight and ground flush with interior wall.



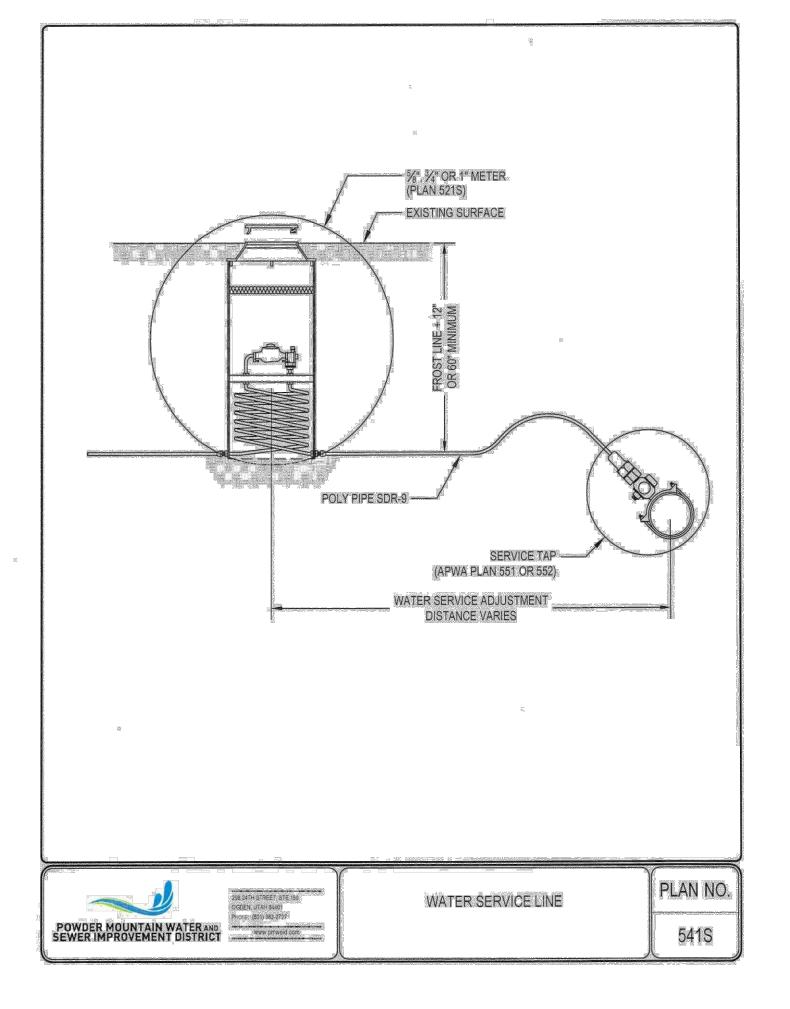


<u>SECTION</u>

BY BUILDING DESIGNER WATER LATERAL DETAIL

FUTURE SIZES ARE PRELIMINARY

ACTUAL SIZE TO BE DETERMINED

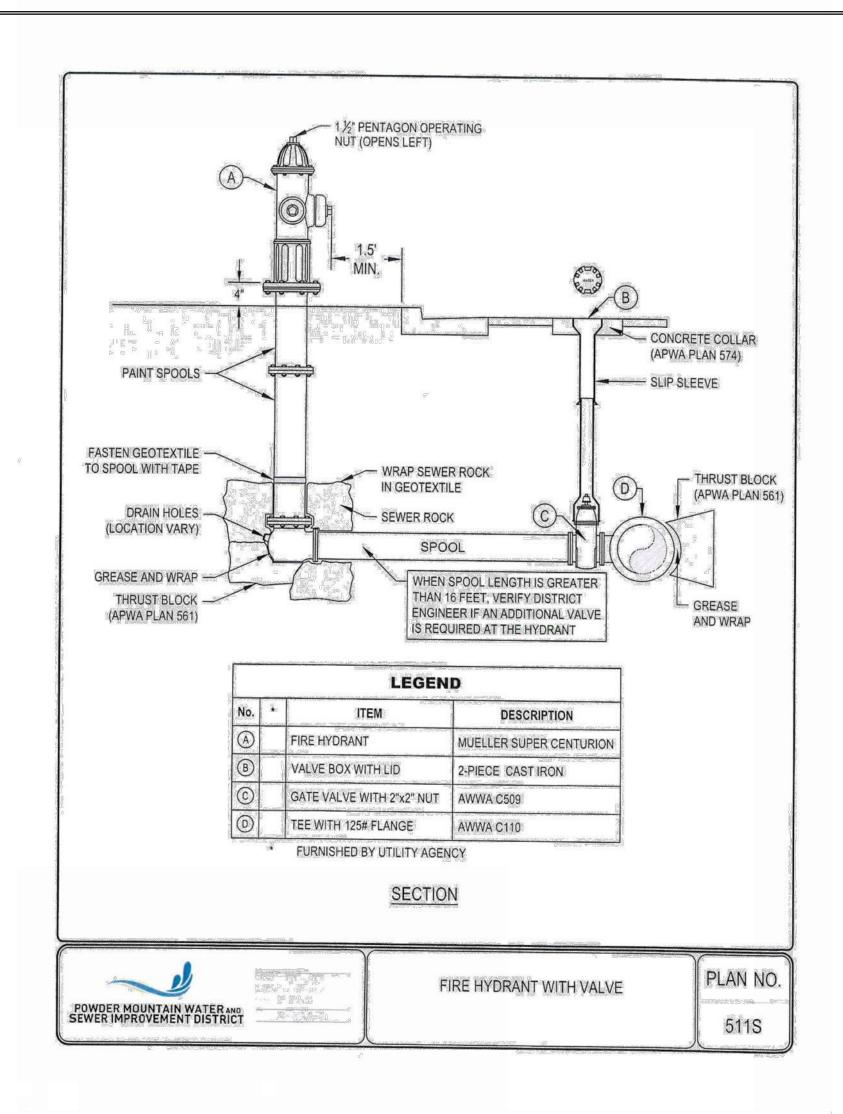


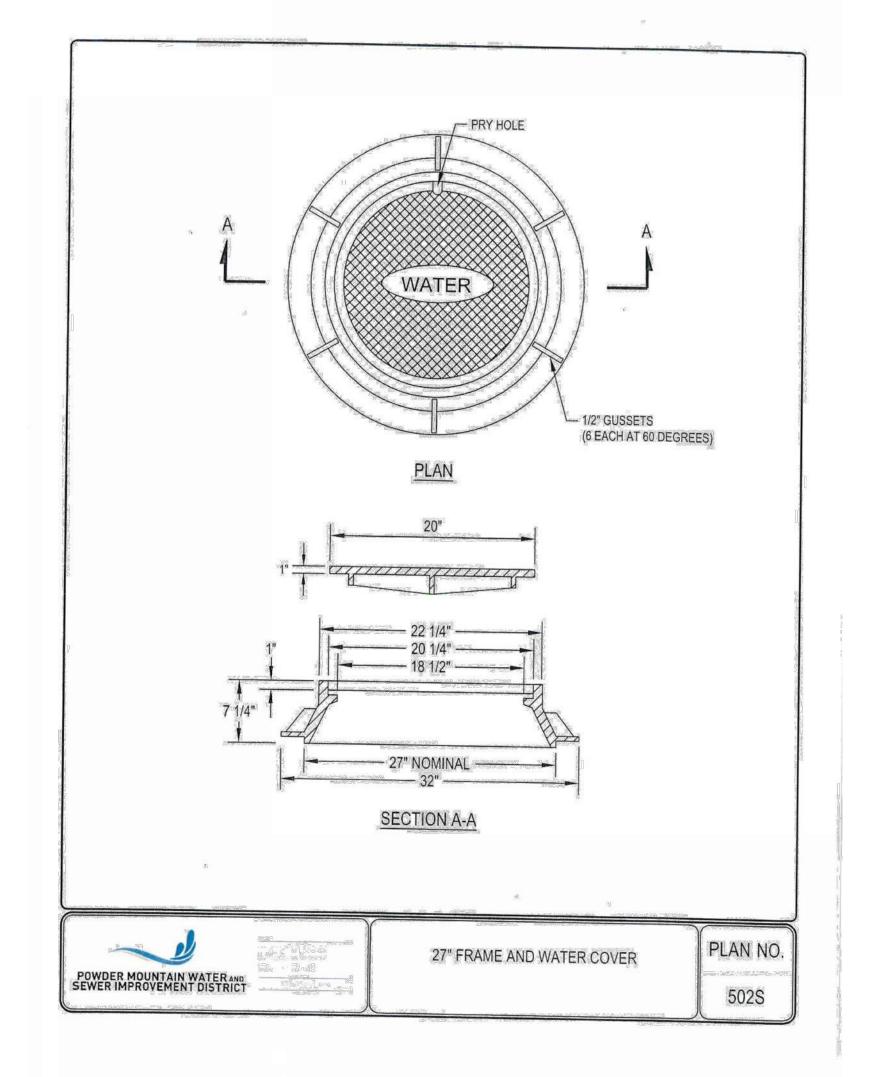
TALISMAN 5217 SOUTH STATE STREET SUITE 200 MURRAY, UT 84107 801.743.1300

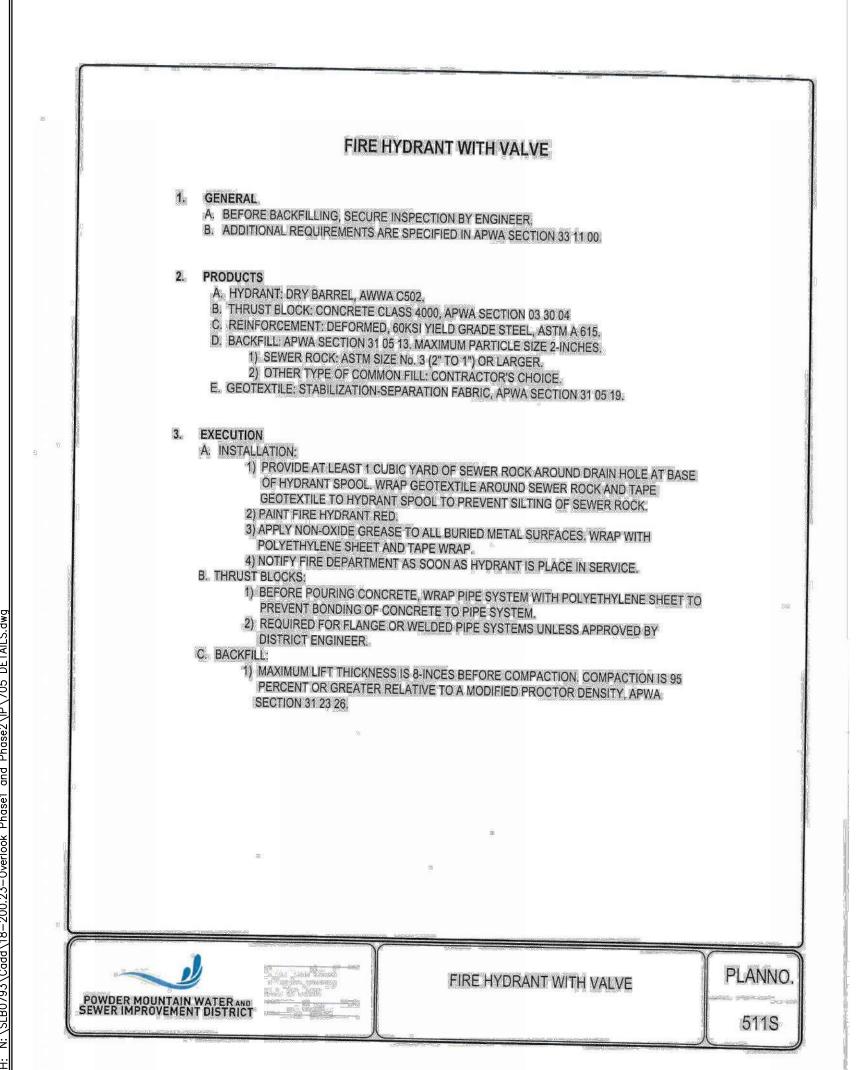
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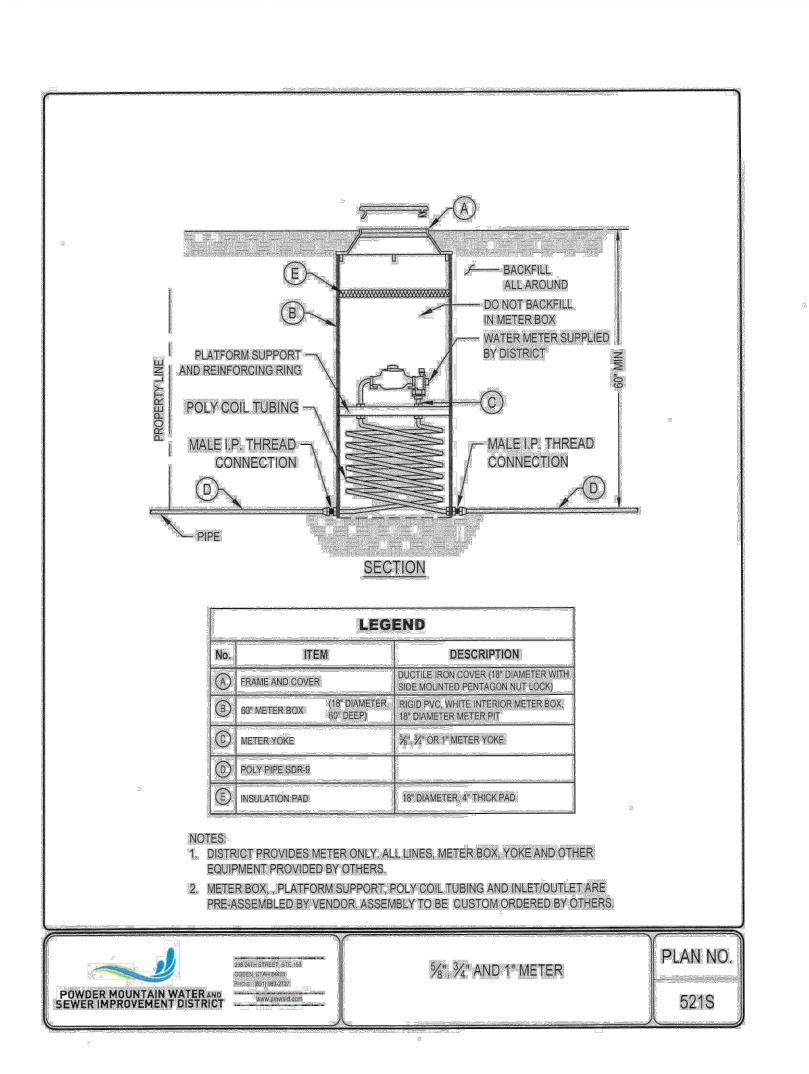


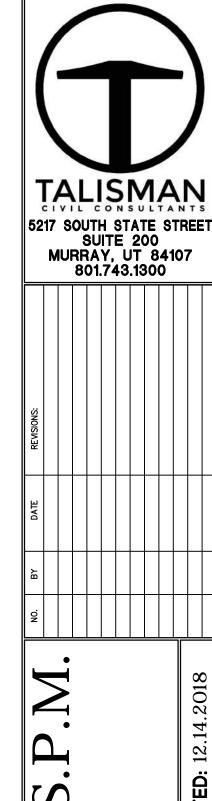




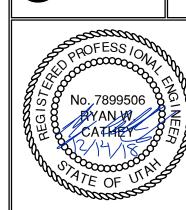




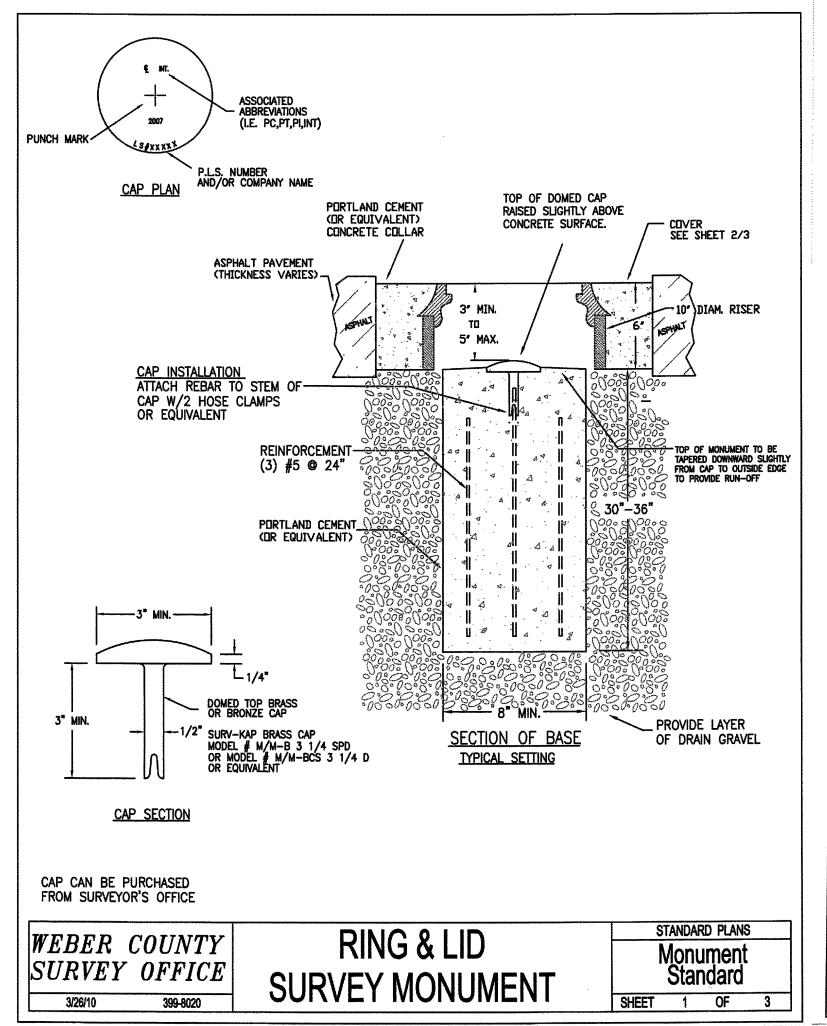


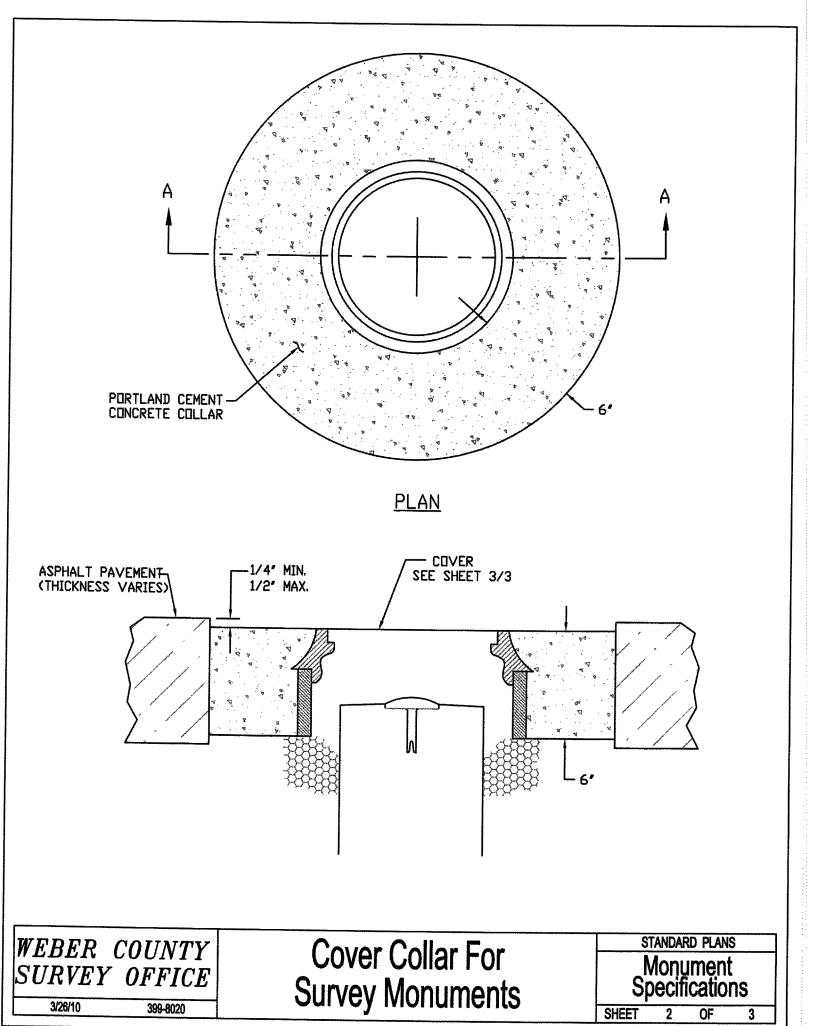


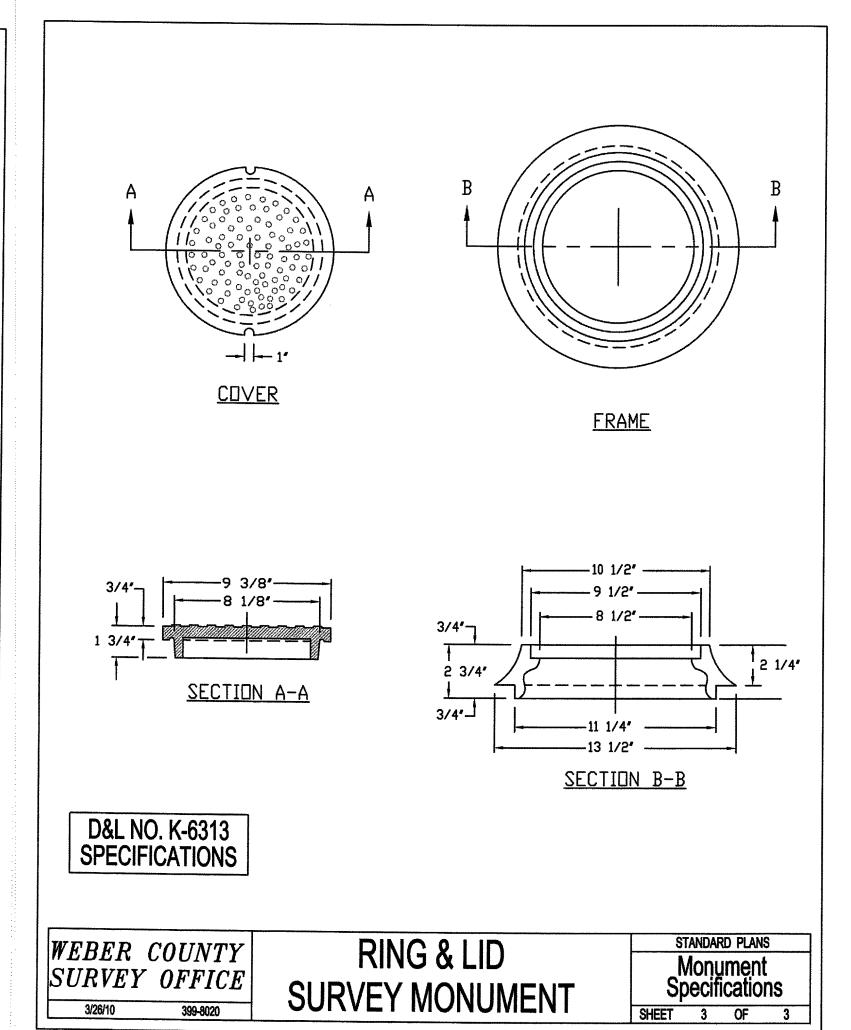
OVERLOOK PH1, PH2, PH3 AT S

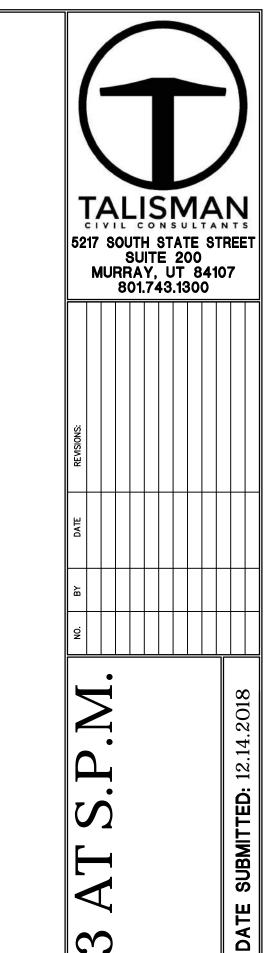










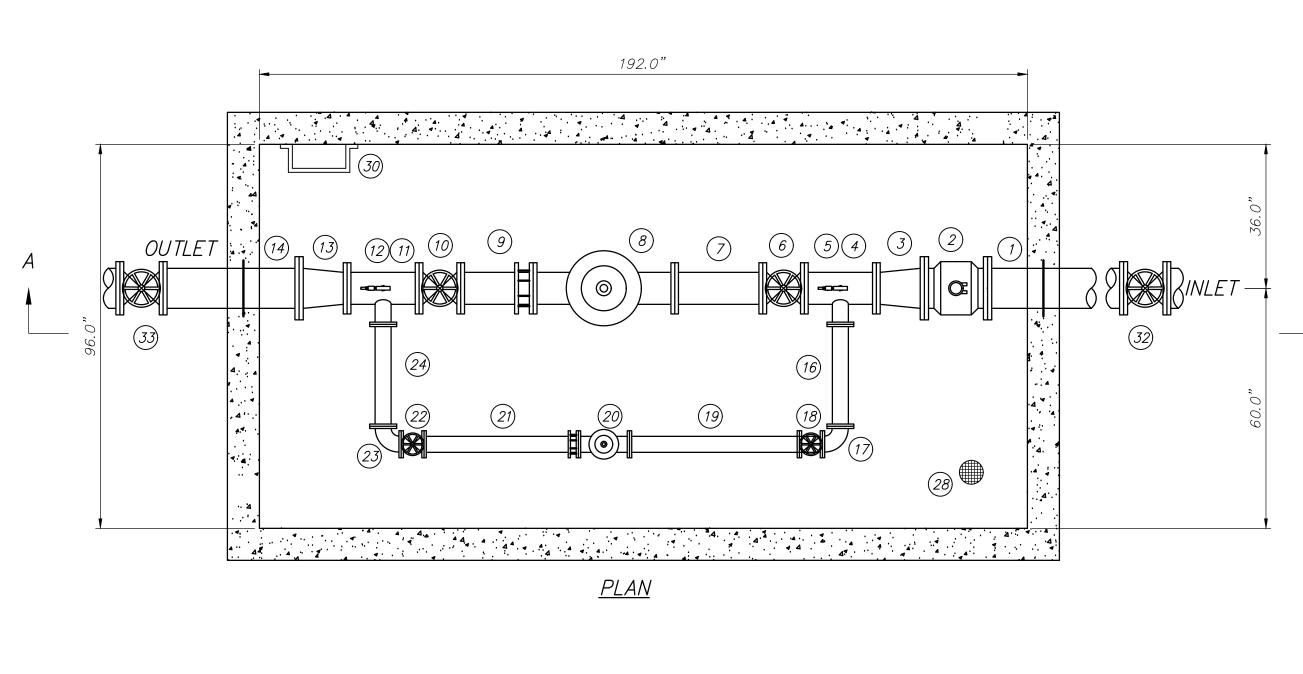


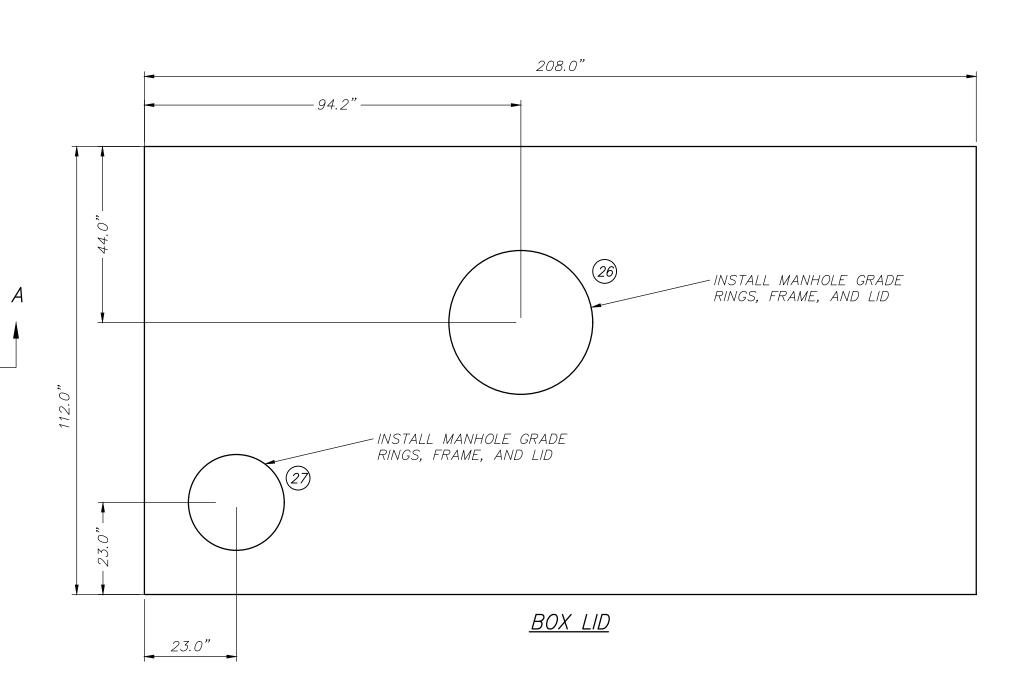
VERLOOK PH1, PH2, PH3 AT, DETAILS

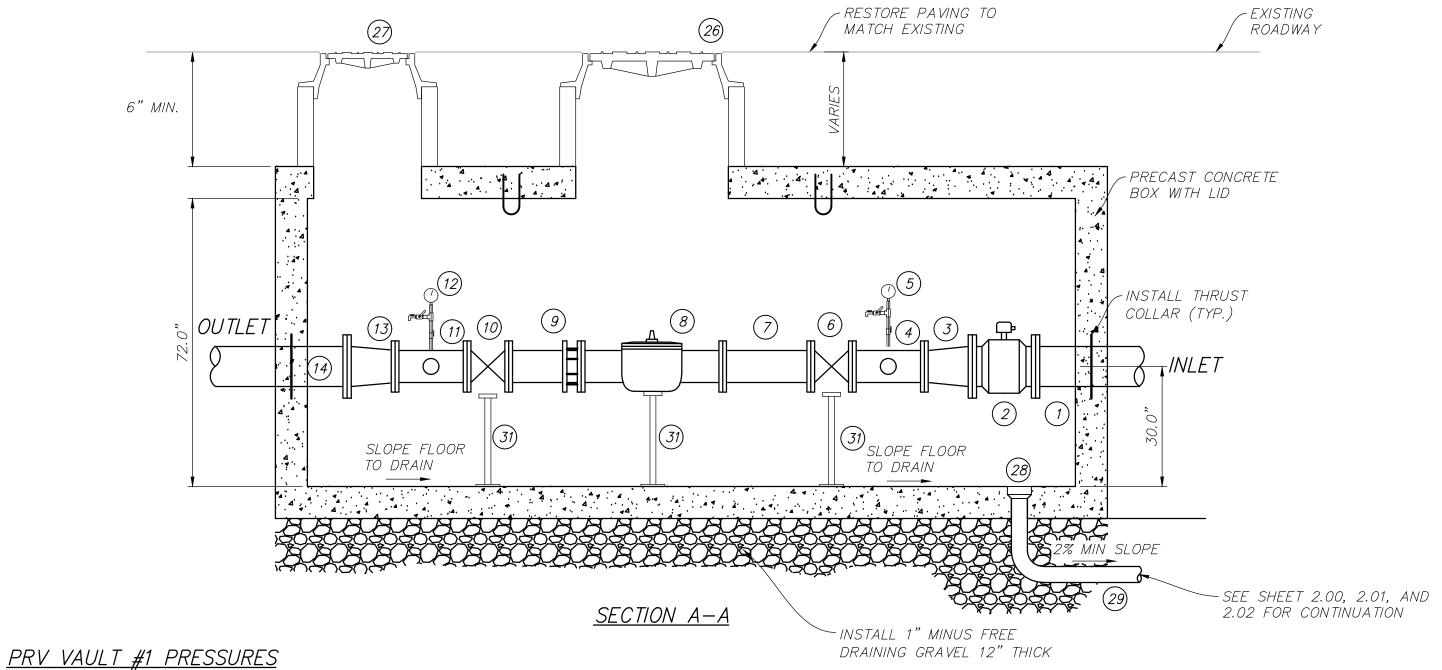
No. 7899506

No. 7









PRESSURE GAUGE

VAL VE

ALL TUBING AND PARTS TO BE STAINLESS STEEL

B PRESSURE GAUGE TREE

3/4" THD BALL

3/4" STANDARD HOSE

3/4" THD BALL

3/4"x1" NIPPLE

*VAL VE* 

VAR NOT TO SCALE

NUMBER	DESCRIPTION	MAKE	SIZE/DIA	LENGTH	ACTION
1	INLET		10	[1]	INSTALL NEW
2	METER		6	15.8	INSTALL NEW KROHNE ENVIROMAG 2000 METER
3	REDUCER		10X6	12	INSTALL NEW
4	TEE		6X4	18	INSTALL NEW
5	GAUGE TREE				INSTALL NEW PER DETAIL B THIS SHEET
6	GV	MUELLER	6	13	INSTALL NEW
7	SPOOL		6	[1]	INSTALL NEW
8	PRV	CLA-VAL	6	25.4	INSTALL NEW CLA-VAL MODEL 90-01
9	SPOOL		6	[1]	INSTALL NEW FLXPE w/FLXmj ADAPTER
10	GV	MUELLER	6	13	INSTALL NEW
11	TEE		6X4	18	INSTALL NEW
12	GAUGE TREE				INSTALL NEW
13	REDUCER		6X10	12	INSTALL NEW
14	OUTLET		10	[1]	INSTALL NEW
15	NOT USED				
16	SPOOL		4	[1]	INSTALL NEW
17	90 BEND		4		INSTALL NEW
18	GV	MUELLER	4	11.5	INSTALL NEW CLA-VAL MODEL 90-01
19	SPOOL		4	[1]	INSTALL NEW, FLxPE w/FLXMJ ADAPTER
20	PRV	CLA-VAL	4	15	INSTALL NEW
21	SPOOL		4	[1]	INSTALL NEW
22	GV	MUELLER	4	11.5	INSTALL NEW
23	90 BEND		4		INSTALL NEW
24	SPOOL		4	[1]	INSTALL NEW
25	NOT USED				
26	MH AND COVER		36		INSTALL NEW HS-20 LOAD RATED
27	MH AND COVER		24		INSTALL NEW HS-20 LOAD RATED
28	5" FLOOR DRAIN		5		INSTALL NEW
29	4" PVC DRAIN PIPE		4		INSTALL NEW
30	POLUPROPYLENE MANHOLE STEPS				INSTALL NEW SPACED AT 12" O.C. PER MANFUACTURER'S SPECIFICATION
31	PIPE SUPPORT				INSTALL NEW PER DETAIL D, THIS SHEET
32	GV	MUELLER	10		INSTALL NEW

INSTALL NEW

MAINLINE PRESSURE -INLET: 90 PSI -OUTLET: 60 PSI	
0072277 00 7 07	

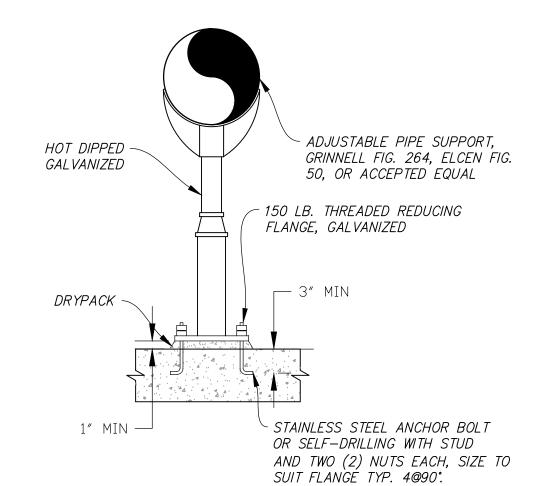
BYPASS PRESSURE
-INLET: 90 PSI
-OUTLET: 60 PSI

6″ MIN ─

A EYELET DETAIL

DOWEL & EPOXY -

3/4" DIA. 304 STAINLESS STEEL (TYP.) COARSE THREADED IN EMBEDMENT AREA



NOTE: INSTALL 5 PIPE SUPPORT IN EACH VAULT,
ONE UNDER EACH OF FOUR VALVES AND ONE
UNDER MAINLINE PRV.



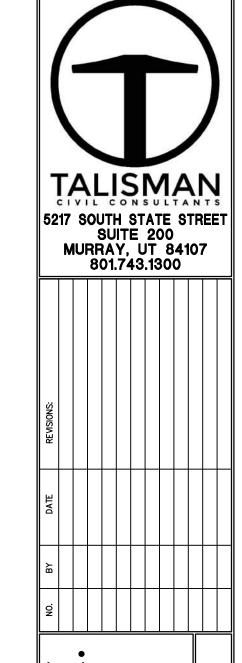
GENERAL	NOTES
CLIVEINAL	IVOILO

GV

33

1. OWNER SHALL PROVIDE A PORTABLE GENERATOR TO PMWSID PRIOR TO SUBSTANTIAL COMPLETION TO PROVIDE TEMPORARY POWER FOR MAINTENANCE OF PRVS.

MUELLER 10



# OVERLOOK PH1, PH2, PH3 AT S PRV DETAILS

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TCC JOB NUMBER: 18-200.23



