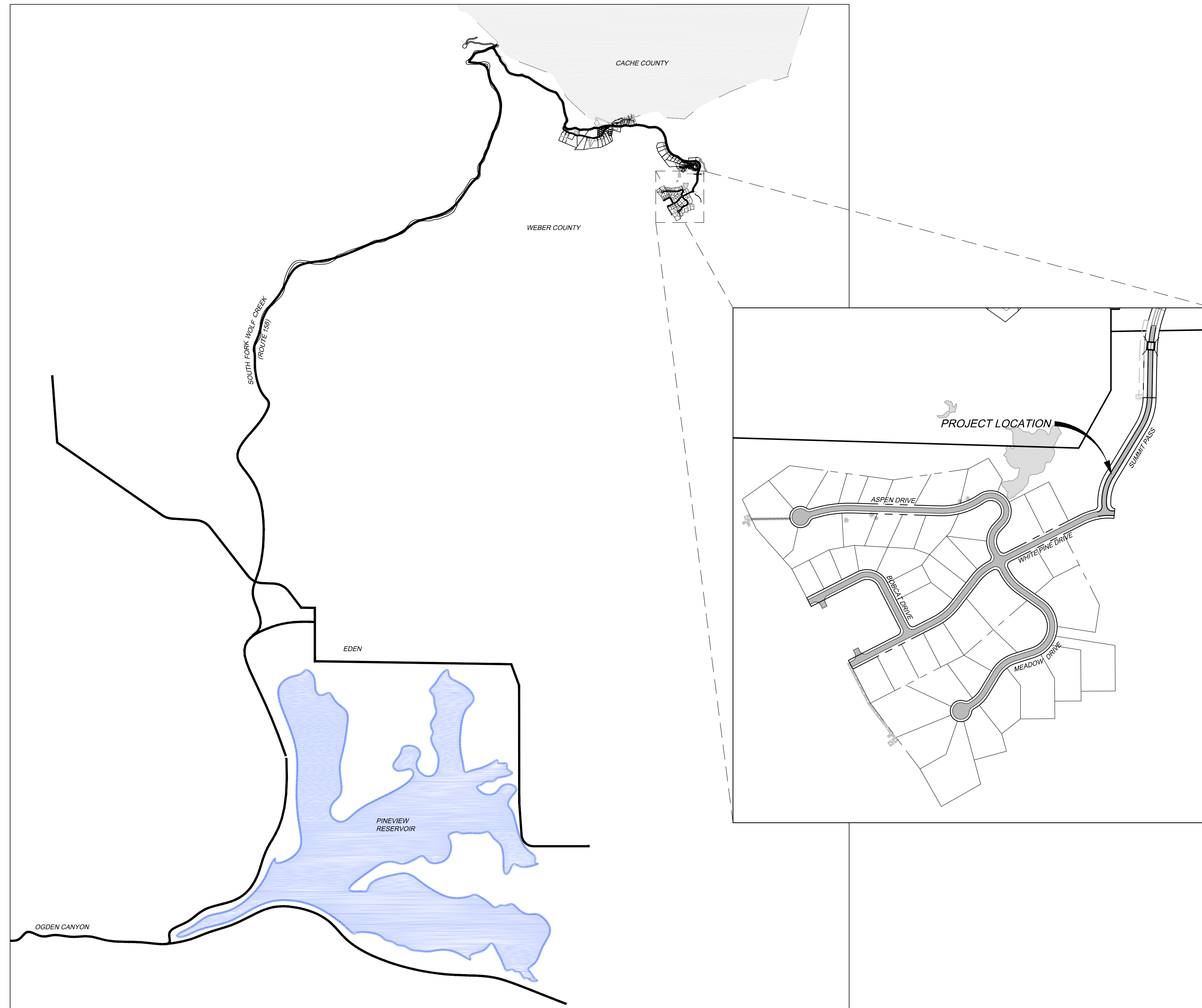


# BOBCAT RIDGE AT SUMMIT POWDER MOUNTAIN SITE CONSTRUCTION DRAWINGS

Located in Sec 08 T7N R2E  
Weber County, Utah

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31	515 PLAN AND PROFILE - MEADOW DRIVE STA: 19+50 - 22+00
32	516 PLAN AND PROFILE - BOBCAT DRIVE STA: 10+00 - 14+00
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56	805 DRY UTILITY PLAN - ASPEN DRIVE STA: 10+00 - 19+00
57	806 DRY UTILITY PLAN - ASPEN DRIVE STA: 19+00 - 25+00
58	807 DRY UTILITY PLAN - MEADOW DRIVE STA: 10+00 - 16+50
59	808 DRY UTILITY PLAN - MEADOW DRIVE STA: 16+50 - 22+00
60	809 DRY UTILITY PLAN - BOBCAT DRIVE STA: 10+00 - 17+50
61	900 SIGNAGE PLAN

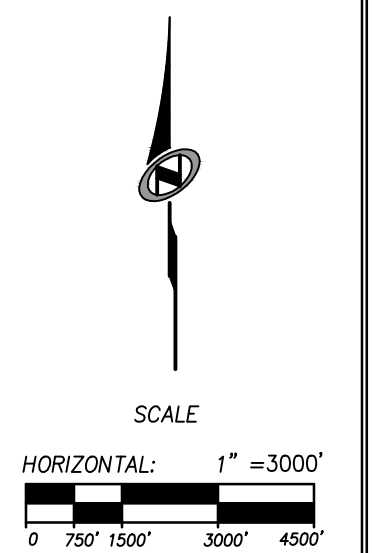
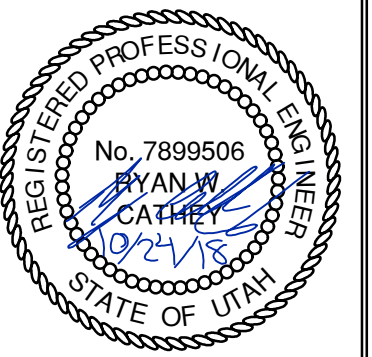


REV.	DATE	BY	NO.

BOBCAT RIDGE AT S.P.M.  
CIVIL TITLE SHEET

DATE SUBMITTED: 10/24/2018

TCC JOB NUMBER: 18\_200.22

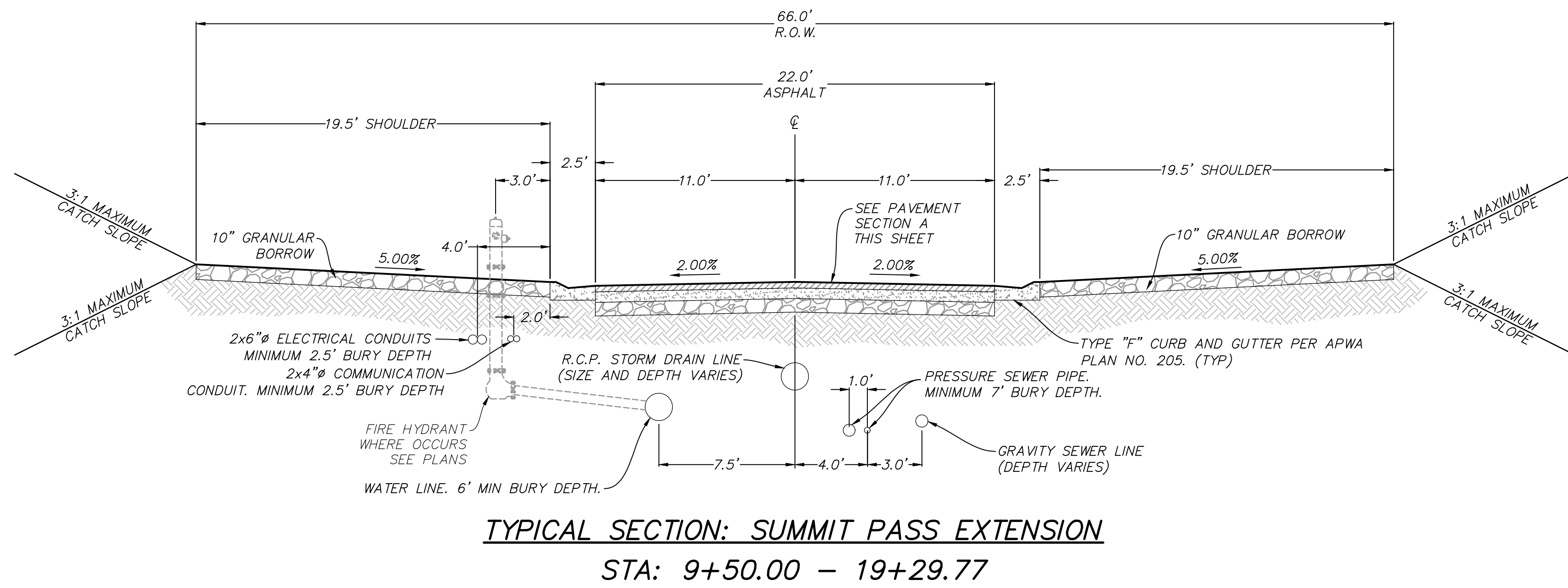


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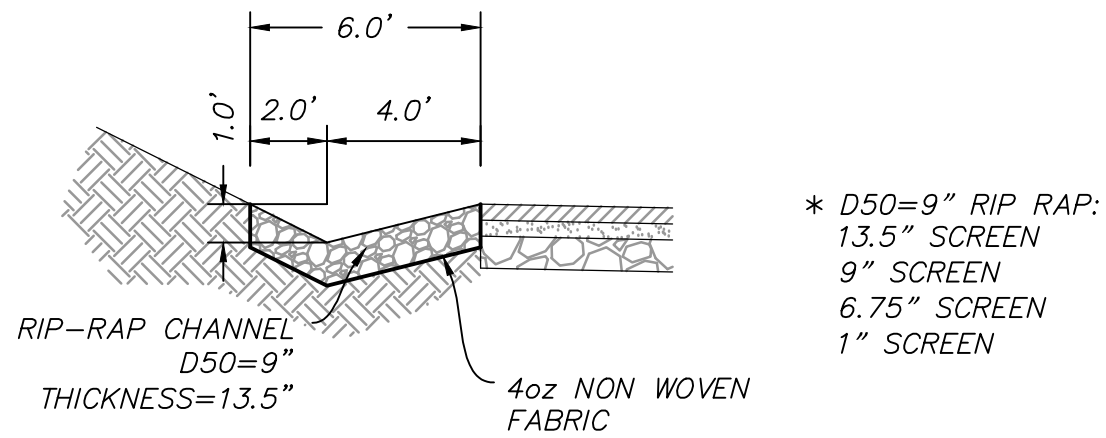
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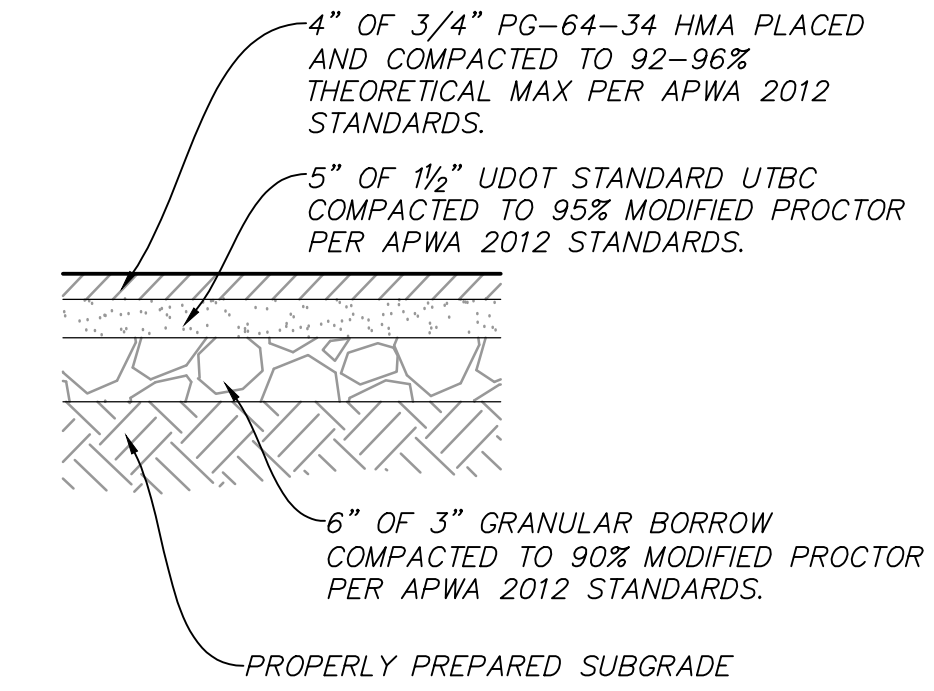




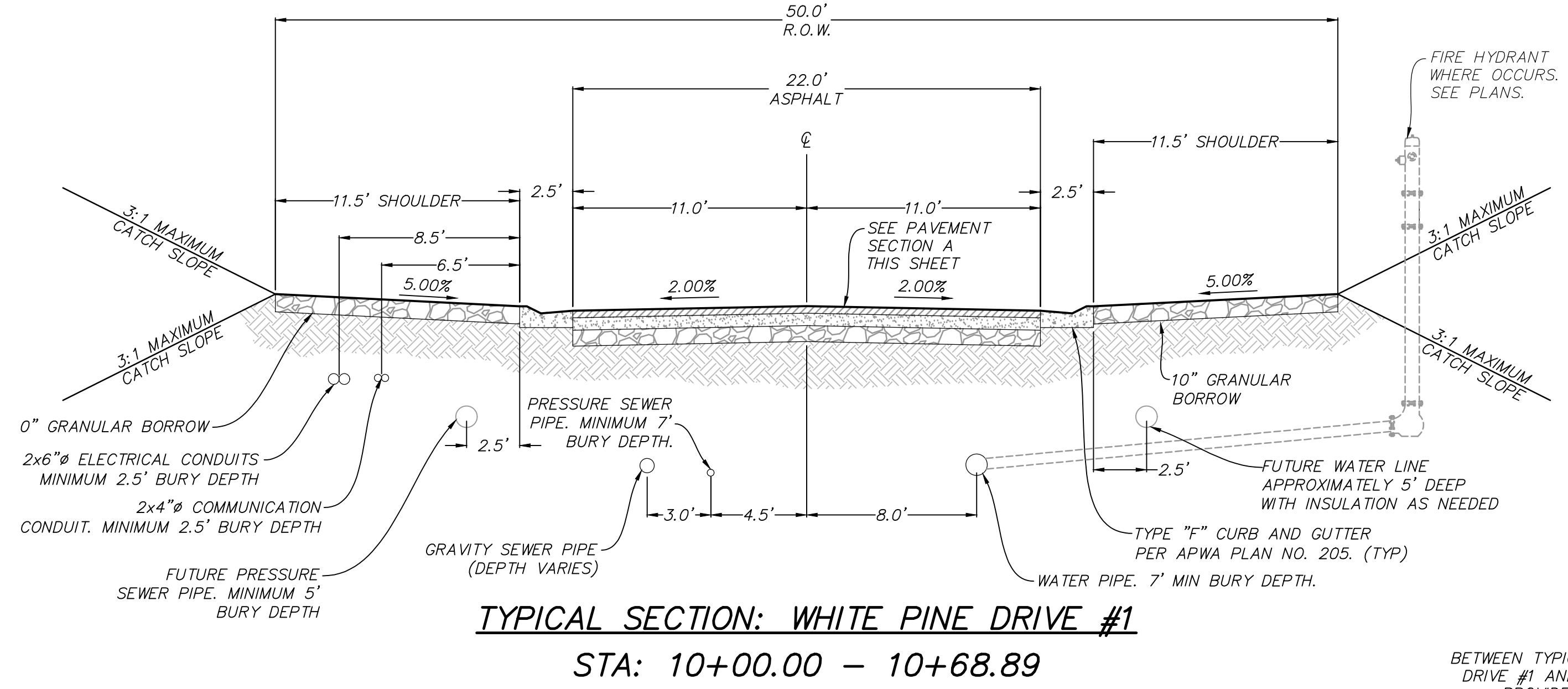
TYPICAL SECTION: SUMMIT PASS EXTENSION  
STA: 9+50.00 - 19+29.77



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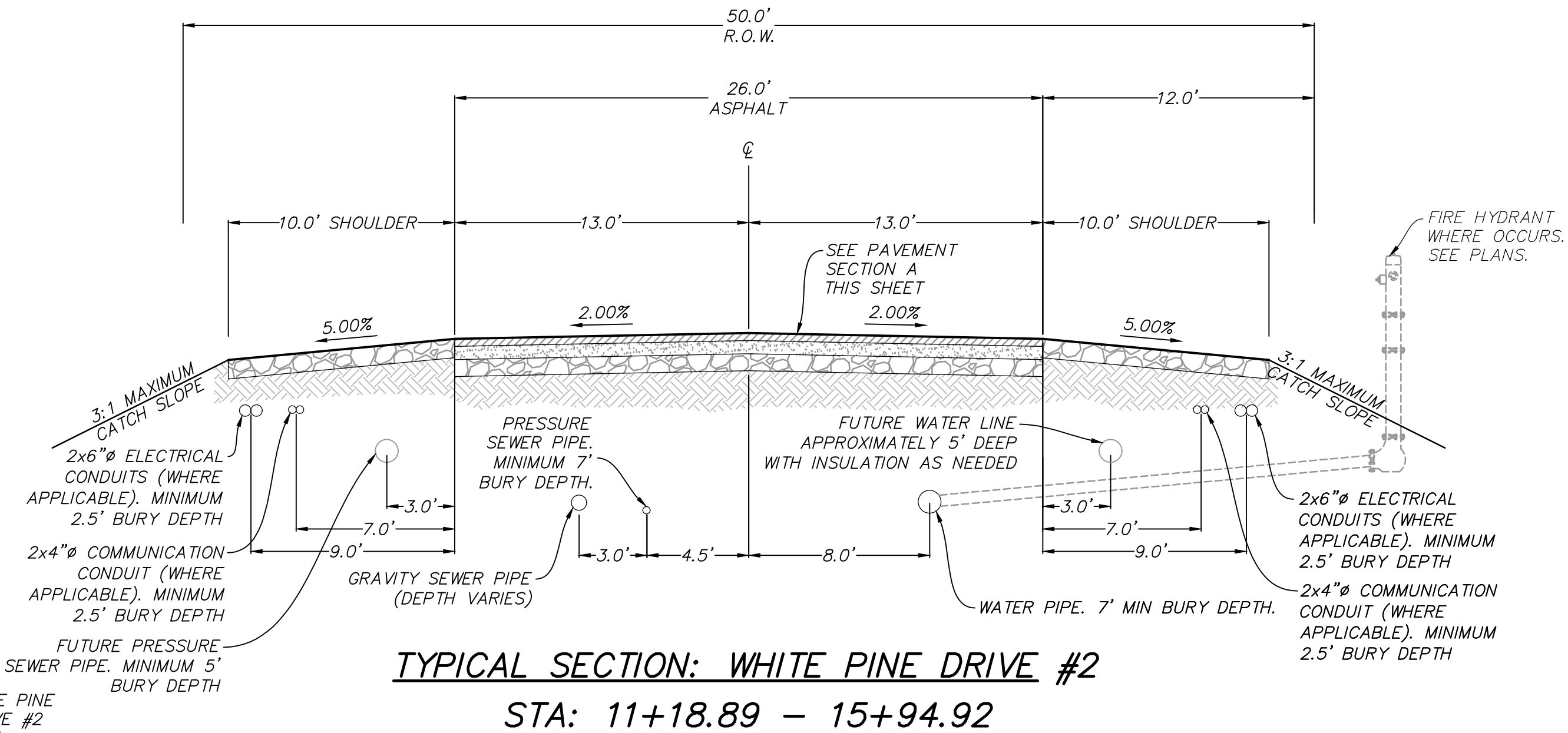


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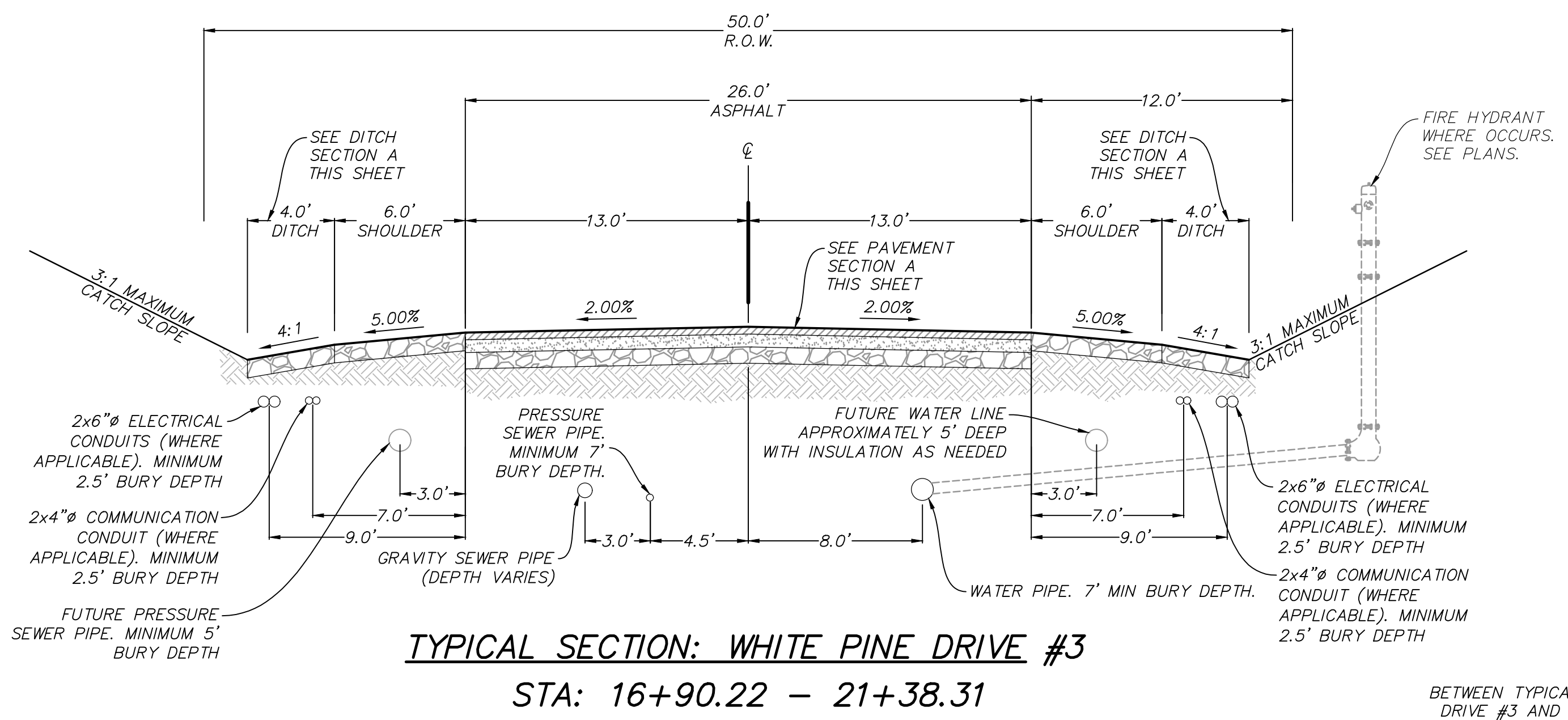


TYPICAL SECTION: WHITE PINE DRIVE #1  
STA: 10+00.00 - 10+68.89

BETWEEN TYPICAL SECTION WHITE PINE DRIVE #1 AND WHITE PINE DRIVE #2 PROVIDE TRANSITION ZONE FROM STA: 10+68.89 TO 11+18.89

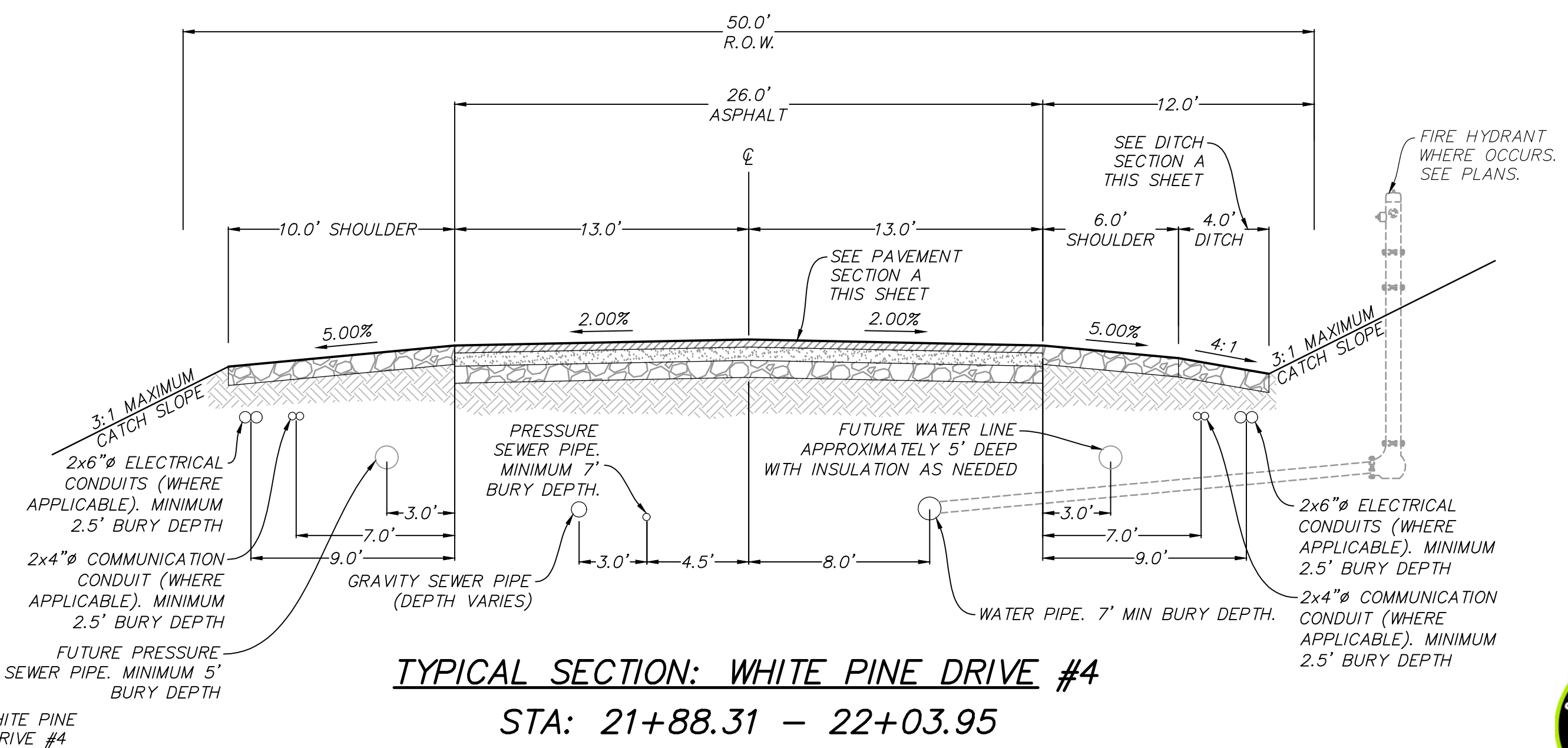


TYPICAL SECTION: WHITE PINE DRIVE #2  
STA: 11+18.89 - 15+94.92

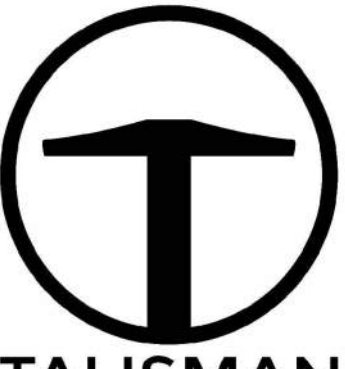


TYPICAL SECTION: WHITE PINE DRIVE #3  
STA: 16+90.22 - 21+38.31

BETWEEN TYPICAL SECTION WHITE PINE DRIVE #3 AND WHITE PINE DRIVE #4 PROVIDE TRANSITION ZONE FROM STA: 21+38.31 TO 21+88.89

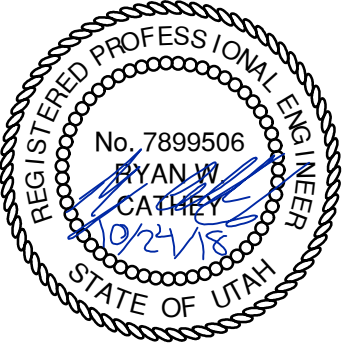


TYPICAL SECTION: WHITE PINE DRIVE #4  
STA: 21+88.31 - 22+03.95  
STA: 22+97.82 - 25+83.29



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BOBCAT RIDGE AT S.P.M.  
TYPICAL ROAD SECTIONS

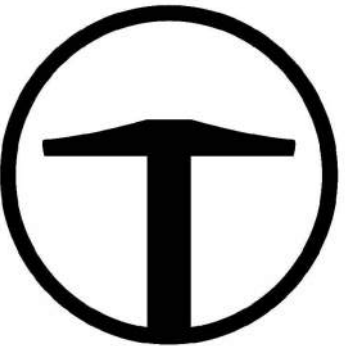


SHEET NUMBER  
**003**  
3 OF 61



DATE: 10/24/2018 11:18 AM

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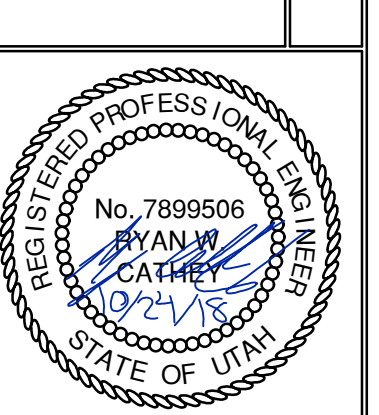


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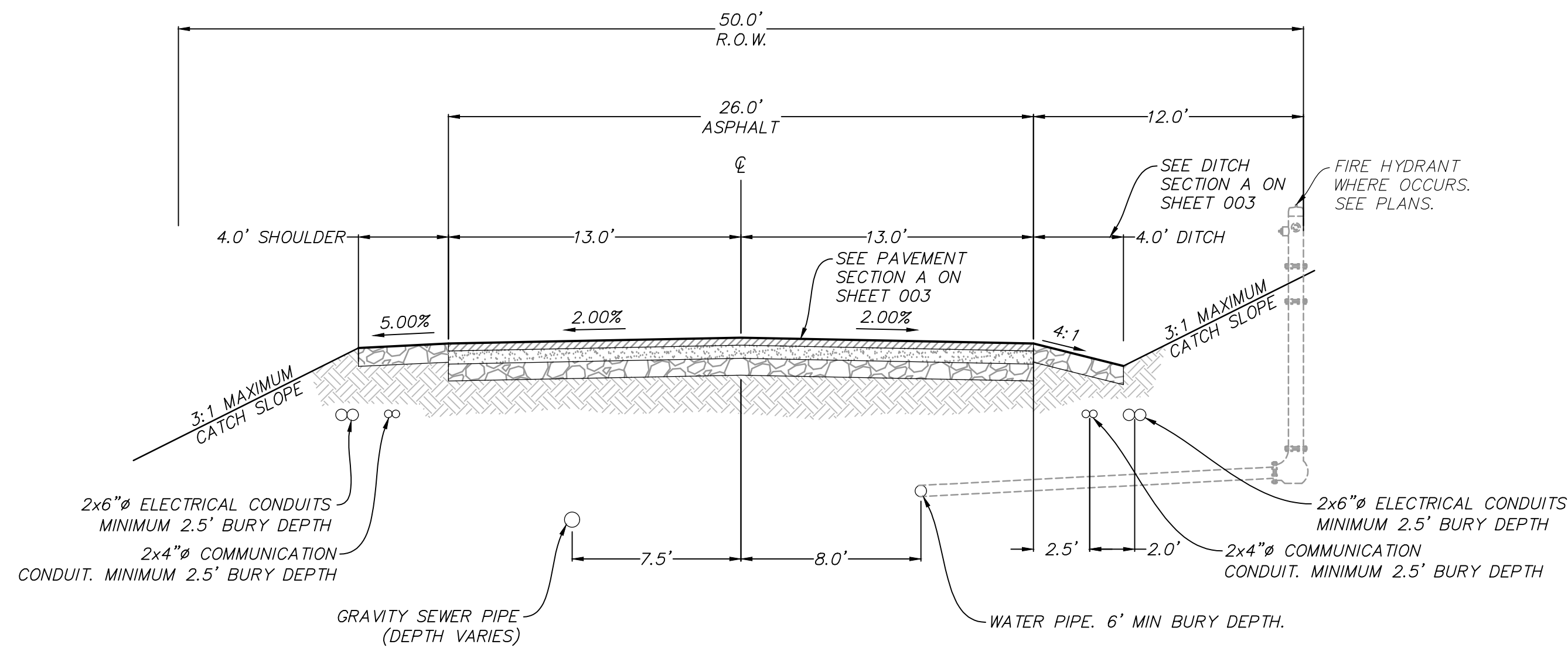
REVISED	
DATE	
BY	
NO.	

BOBCAT RIDGE AT S.P.M.  
TYPICAL ROAD SECTIONS

DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18-200-22

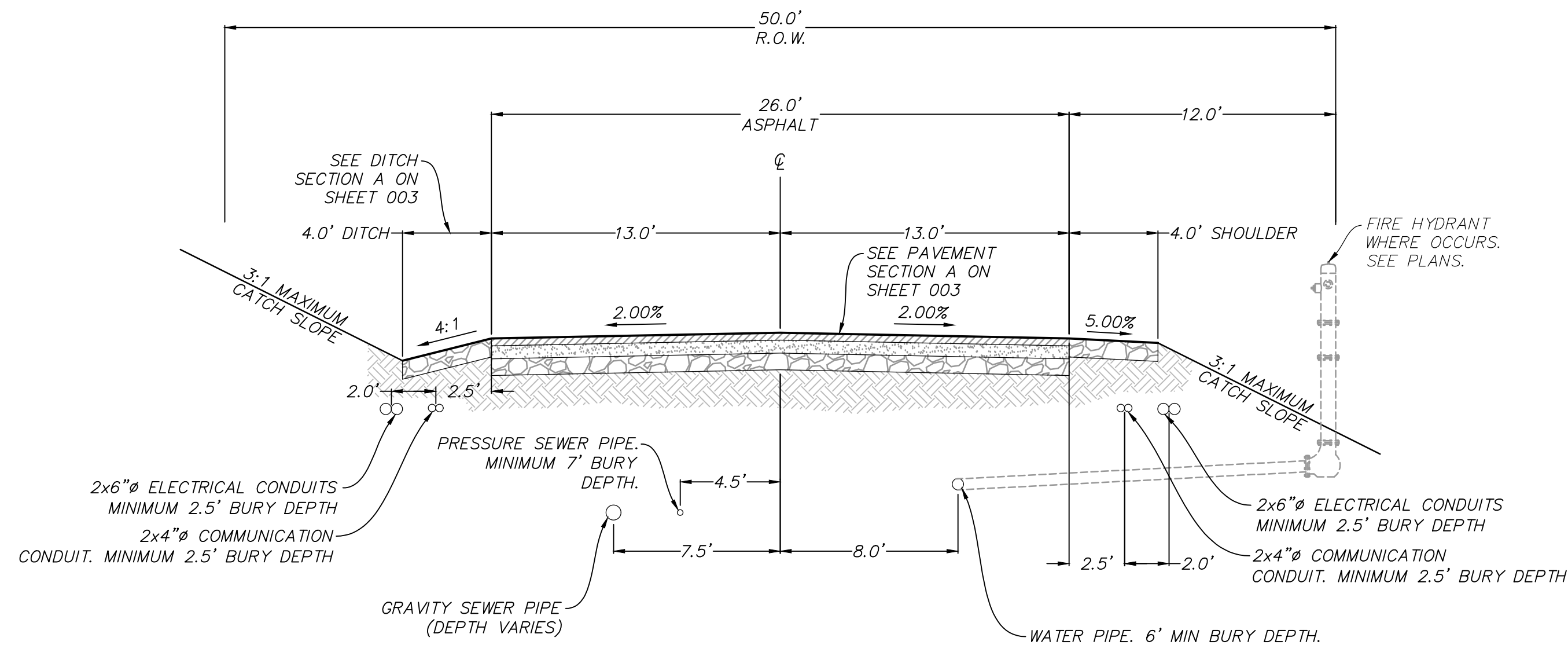


SHEET NUMBER  
**004**  
4 OF 61



**TYPICAL SECTION: ASPEN DRIVE #1**  
STA: 10+40.00 - 12+75.00

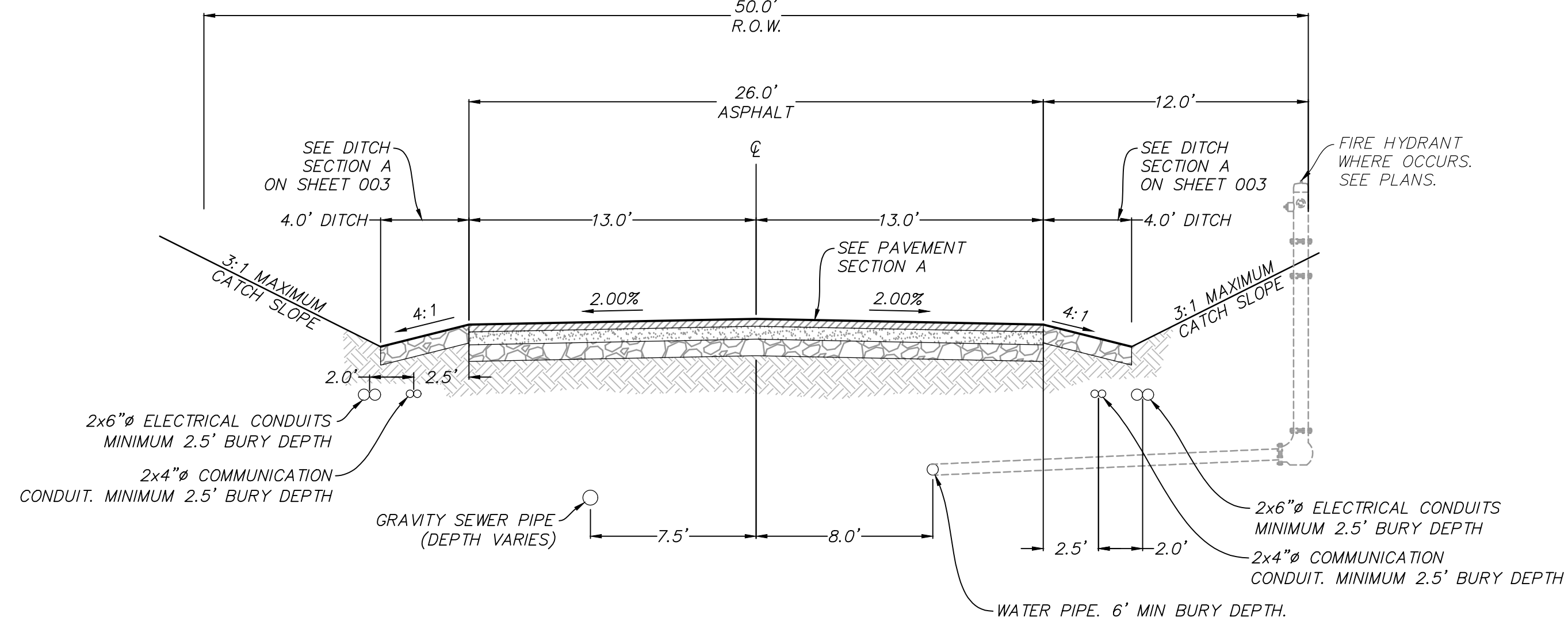
BETWEEN TYPICAL SECTION ASPEN DRIVE #1 AND ASPEN DRIVE #2  
PROVIDE TRANSITION ZONE  
FROM STA: 12+75 TO 13+25



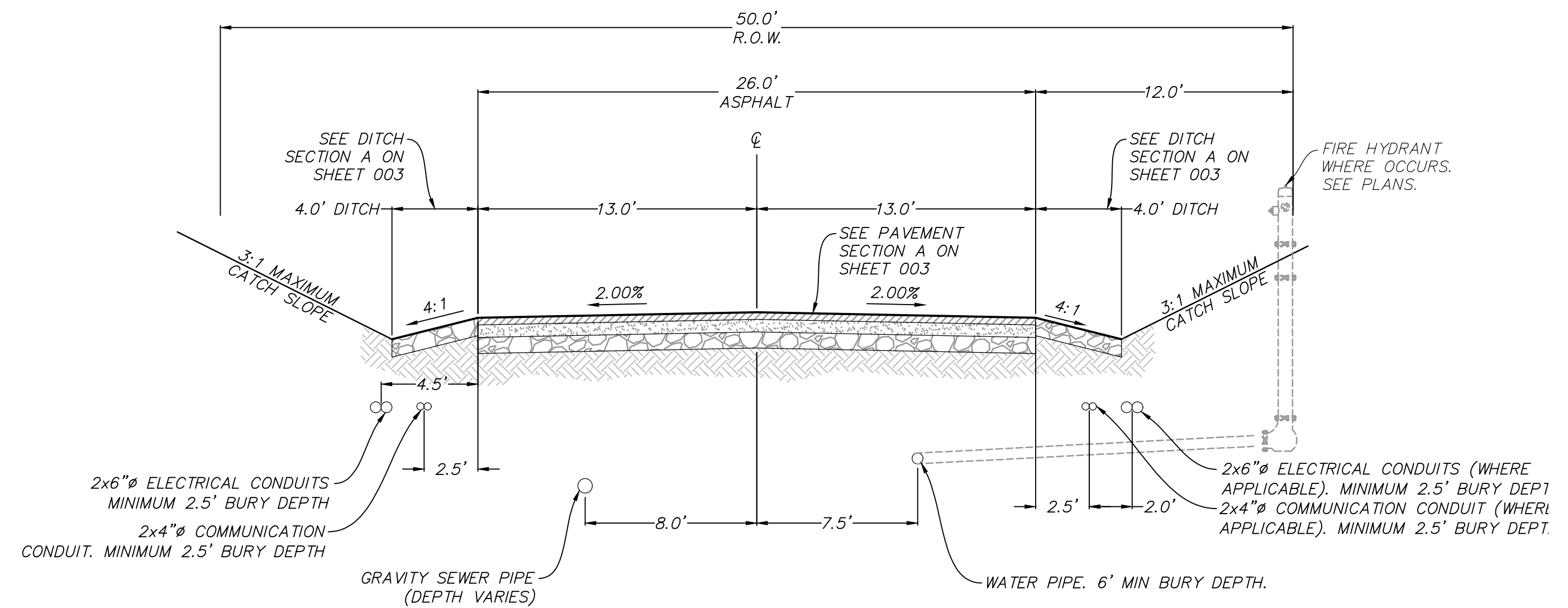
**TYPICAL SECTION: ASPEN DRIVE #2**  
STA: 13+25.00 - 15+25.00  
STA: 18+45.00 - 23+31.60

BETWEEN TYPICAL SECTION ASPEN DRIVE #2 AND ASPEN DRIVE #3  
PROVIDE TRANSITION ZONE  
FROM STA: 15+25 TO 15+75

BETWEEN TYPICAL SECTION ASPEN DRIVE #2 AND ASPEN DRIVE #3  
PROVIDE TRANSITION ZONE  
FROM STA: 18+45 TO 18+95

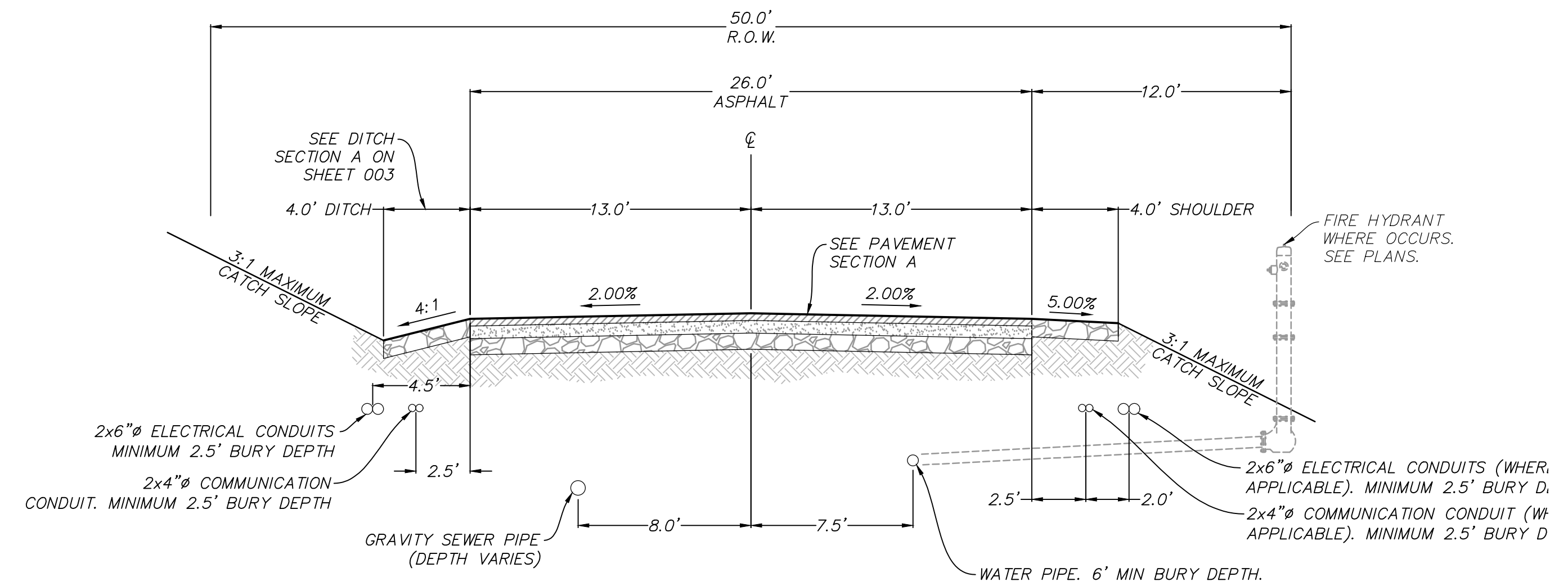


**TYPICAL SECTION: ASPEN DRIVE #3**  
STA: 15+75.00 - 18+95.00

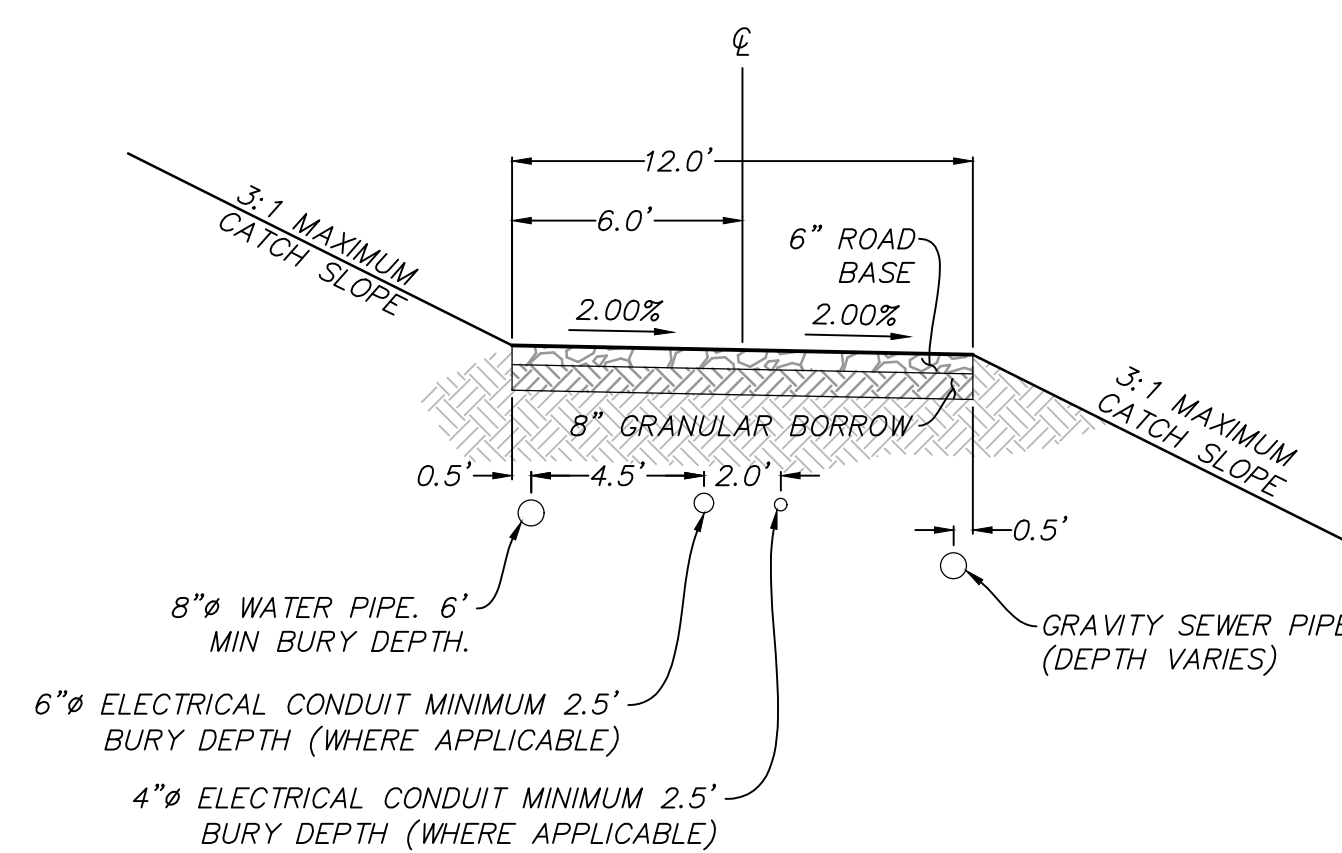


**TYPICAL SECTION: BOBCAT DRIVE #1**  
STA: 10+50.18 - 13+25.00

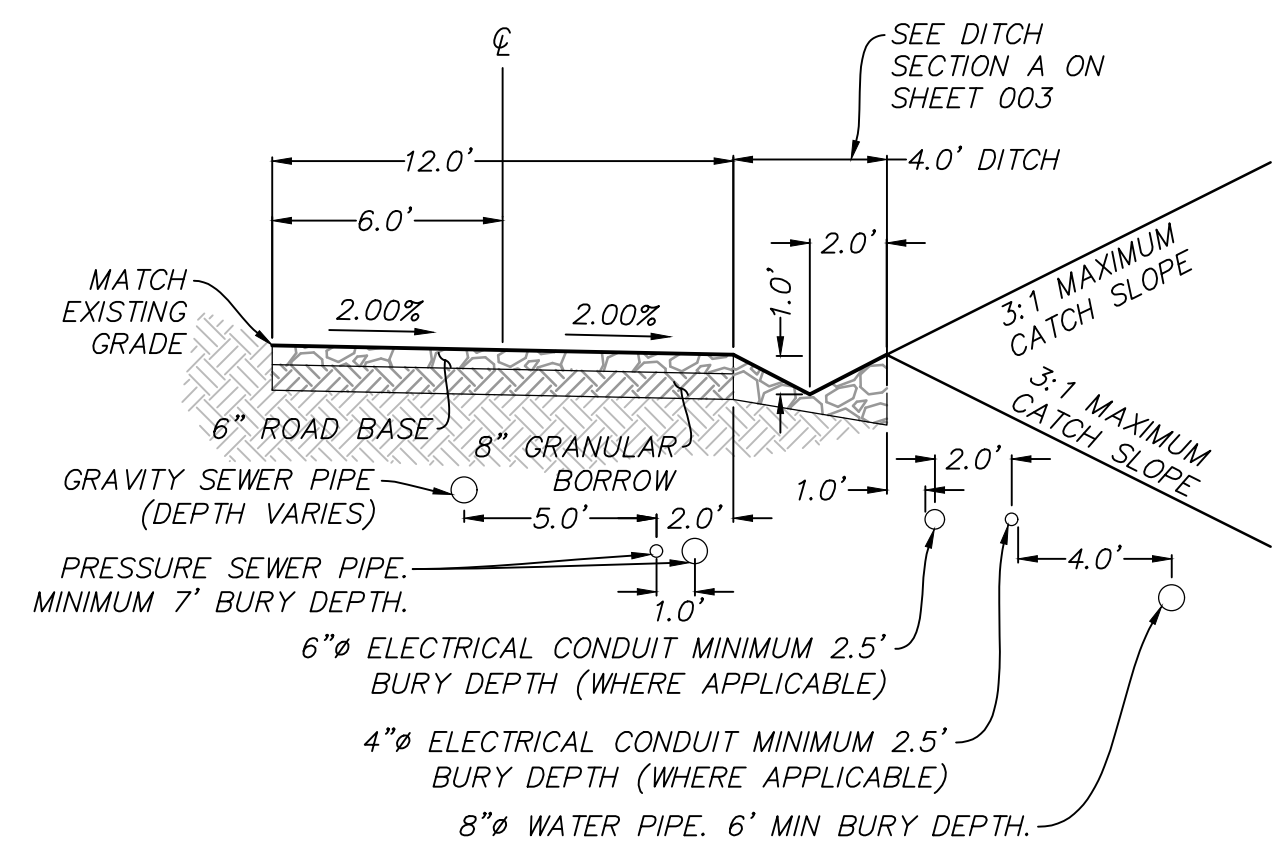
BETWEEN TYPICAL SECTION BOBCAT DRIVE #1 AND BOBCAT DRIVE #2  
PROVIDE TRANSITION ZONE  
FROM STA: 13+25 TO 13+75



**TYPICAL SECTION: BOBCAT DRIVE**  
STA: 13+75.00 - 17+20.31

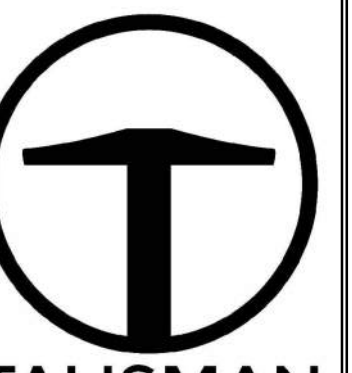


**TYPICAL SECTION: ACCESS ROAD TO BR-1**



**TYPICAL SECTION: ACCESS ROAD TO BR-2**





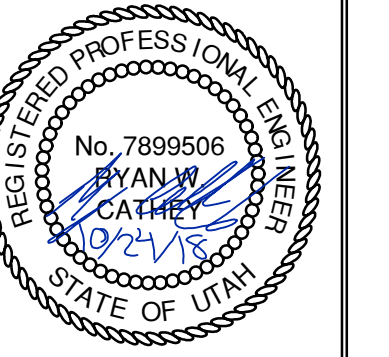
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**BOBCAT RIDGE AT S.P.M.**  
TYPICAL ROAD SECTIONS

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22



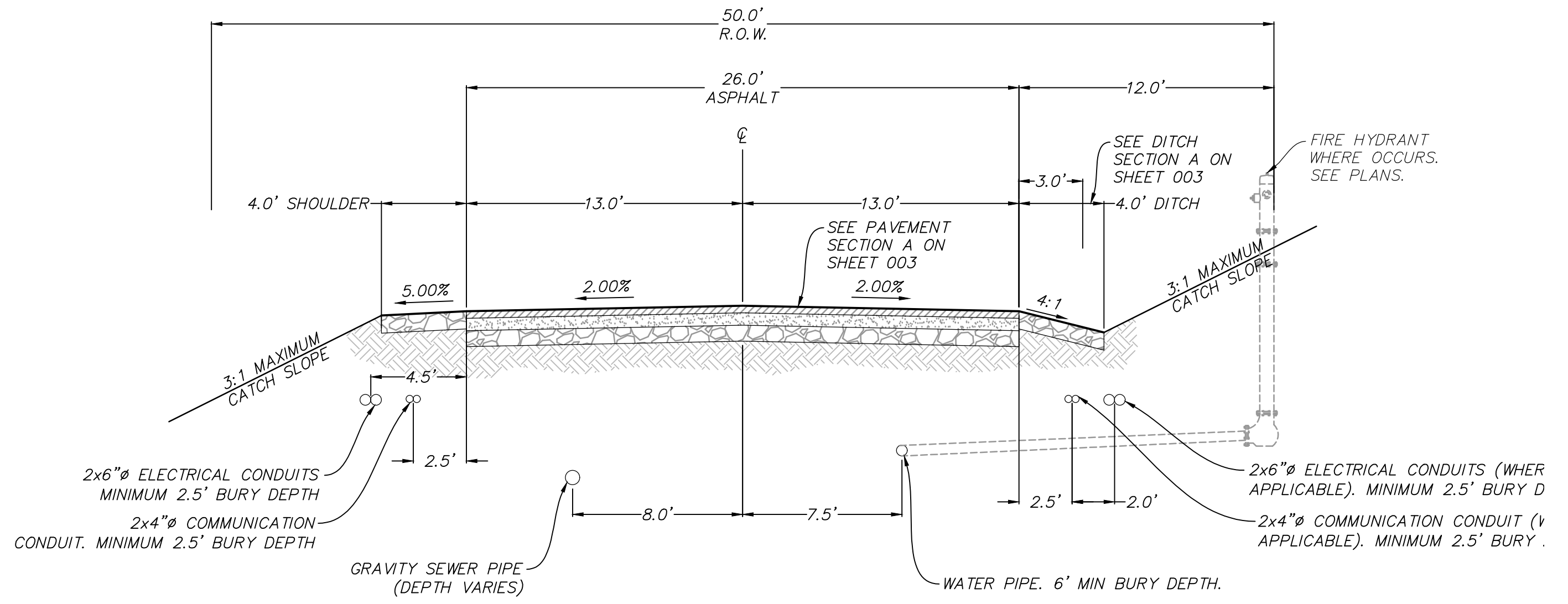
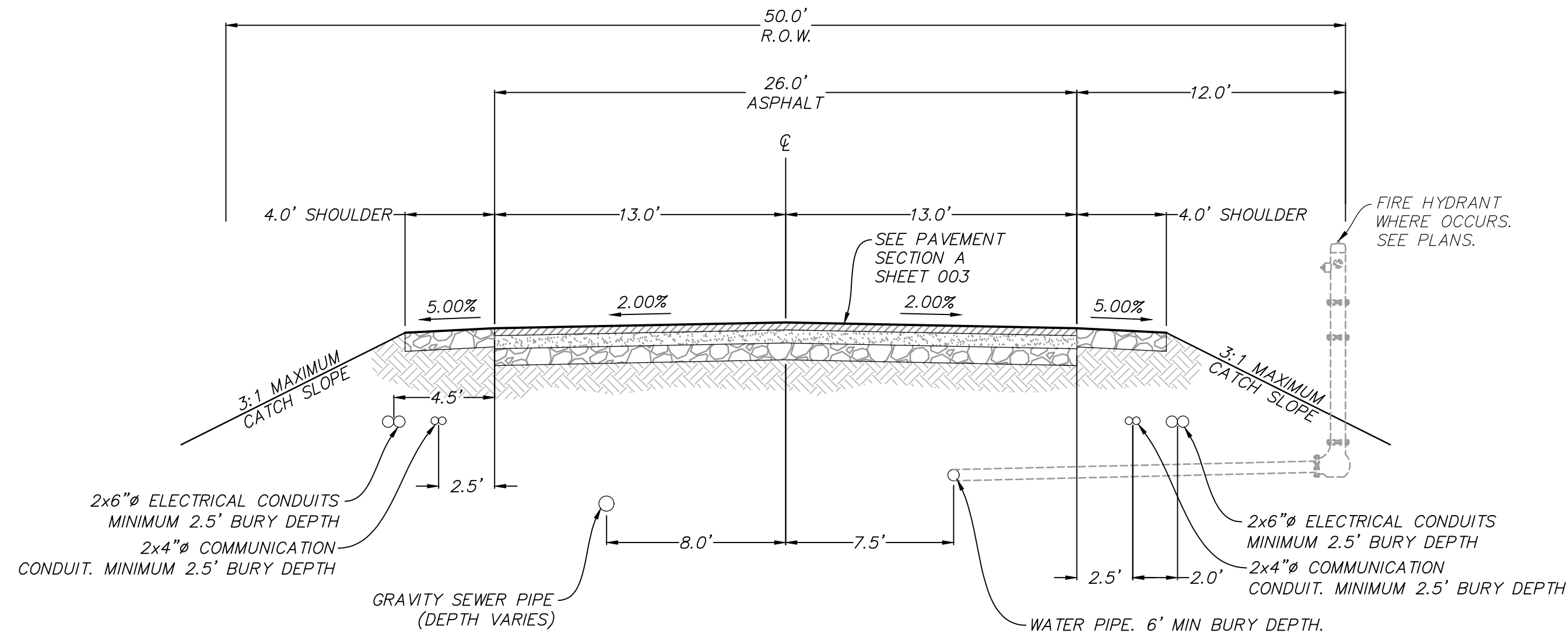
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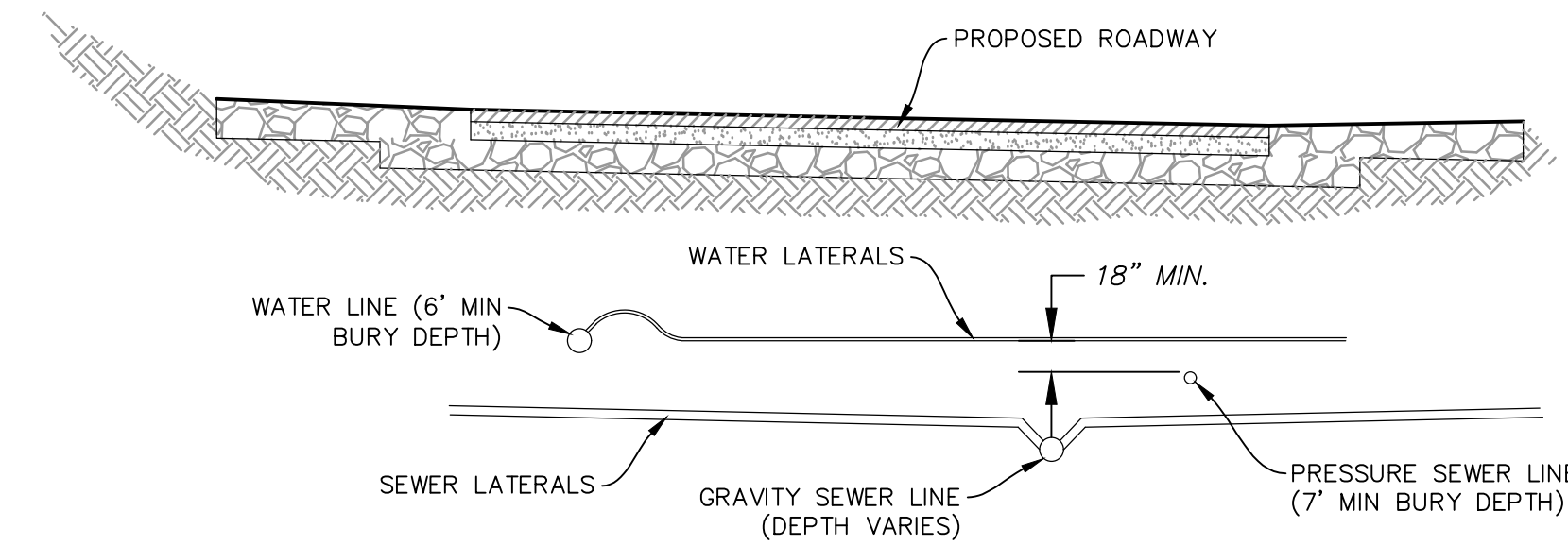
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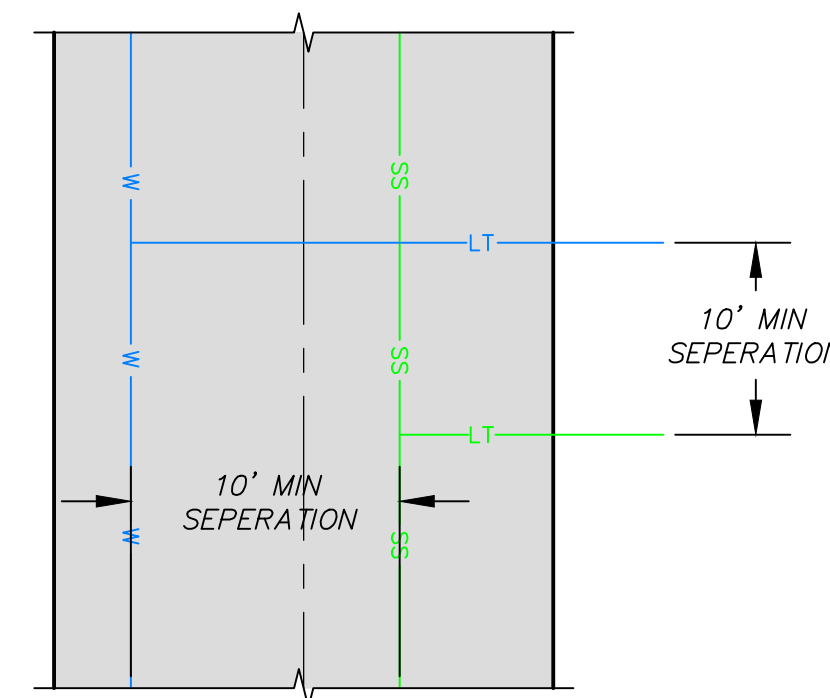
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BETWEEN TYPICAL SECTION MEADOW DRIVE #1 AND MEADOW DRIVE #2 PROVIDE TRANSITION ZONE FROM STA: 14+35 TO 14+85



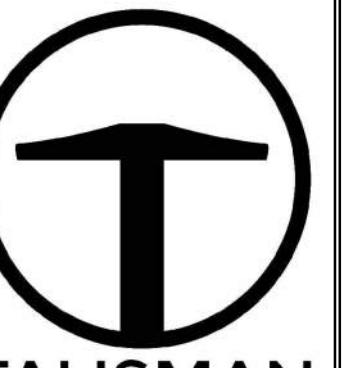
SECTION



PLAN

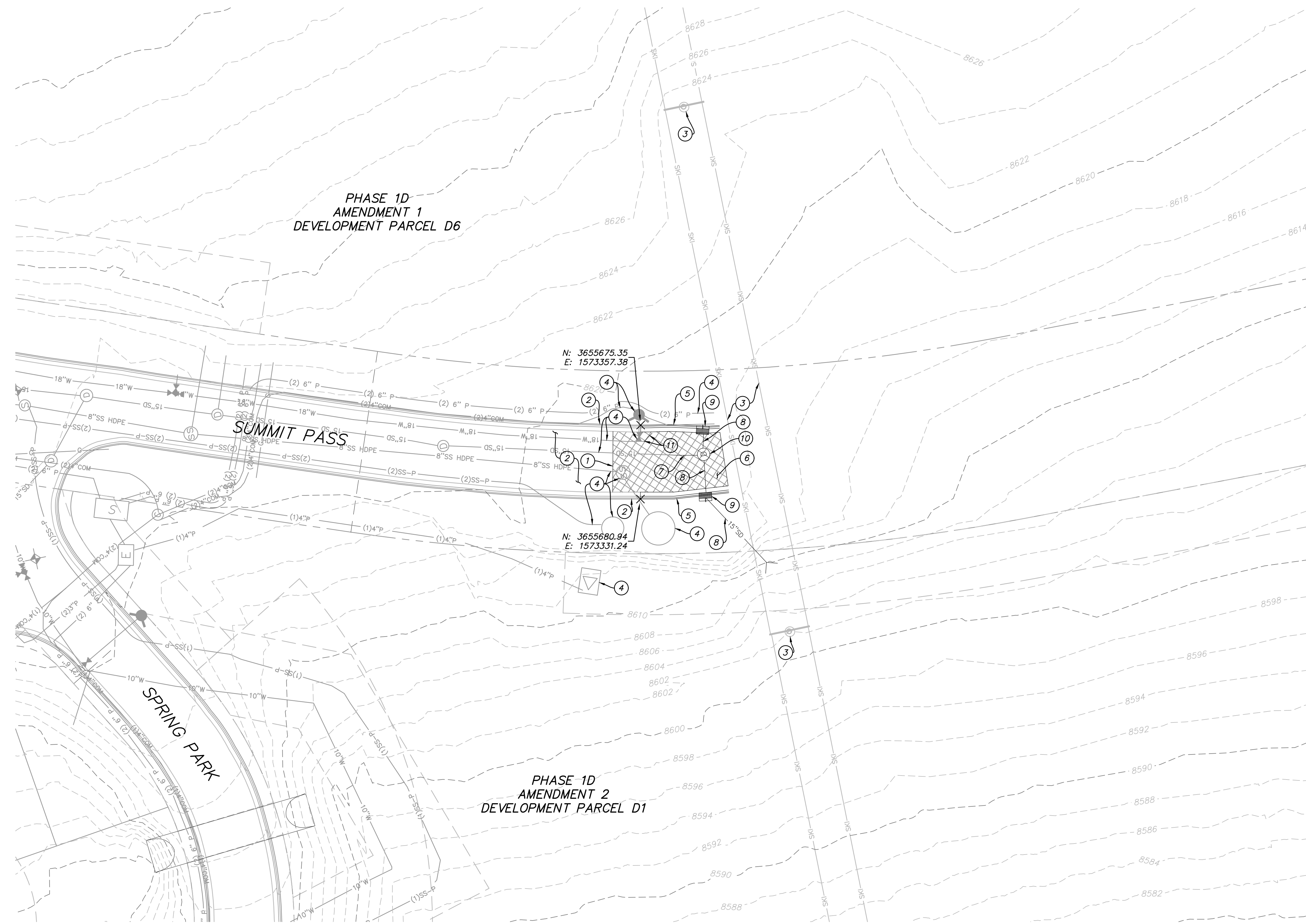
**WATER AND SEWER SEPARATION DETAIL**





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**GENERAL NOTES:**

EXISTING UTILITY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS DERIVED FROM RECORD DRAWINGS AND MAY NOT BE LOCATED CORRECTLY AND IS NOT ALL INCLUSIVE. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES BEFORE BEGINNING DEMOLITION/CONSTRUCTION AND NOTIFY ENGINEER WHEN UNEXPECTED UTILITIES ARE DISCOVERED.

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

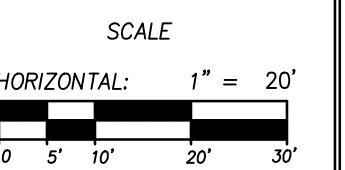
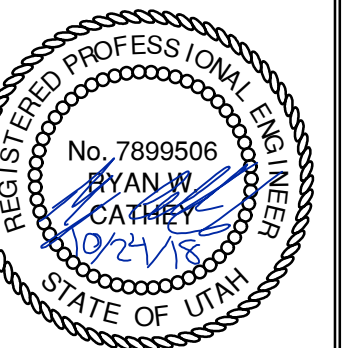
**SCOPE OF WORK:**

- ① SAWCUT TO PROVIDE SMOOTH CLEAN EDGE.
- ② PRESERVE AND PROTECT EXISTING IMPROVEMENTS. CONTRACTOR RESPONSIBLE FOR REPLACING DAMAGED IMPROVEMENTS.
- ③ PROTECT IN PLACE EXISTING SKI LIFT TOWERS AND LINES.
- ④ PRESERVE AND PROTECT EXISTING UTILITY LINES AND STRUCTURES.
- ⑤ REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER. SAWCUT AT NEAREST CONTROL JOINT.
- ⑥ REMOVE AND PROPERLY DISPOSE OF EXISTING ASPHALT PAVEMENT.
- ⑦ REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN PIPE TO NEAREST PIPE JOINT.
- ⑧ REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN PIPE.
- ⑨ REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN CATCH BASIN.
- ⑩ REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN MANHOLE.
- ⑪ REMOVE AND PROPERLY DISPOSE OF EXISTING WATER LINE AND BEND.

**BOBCAT RIDGE AT S.P.M.  
OVERALL DEMOLITION PLAN**

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22

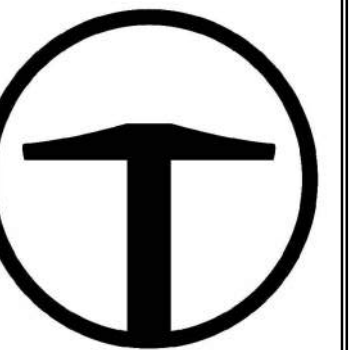


SHEET NUMBER  
**100**  
6 OF 61



DATE: 10/24/2018 11:32 AM

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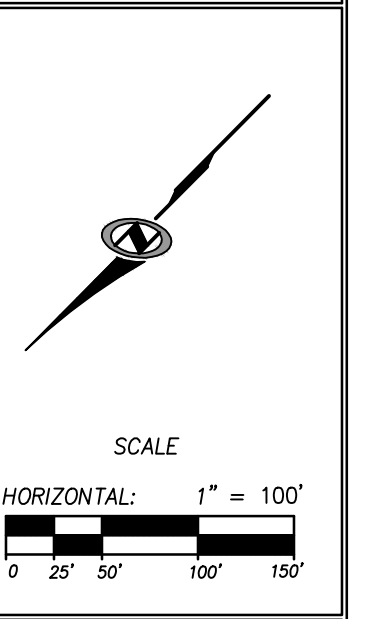
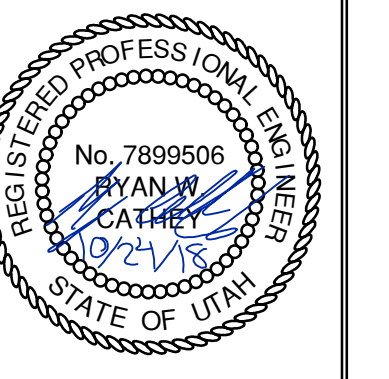


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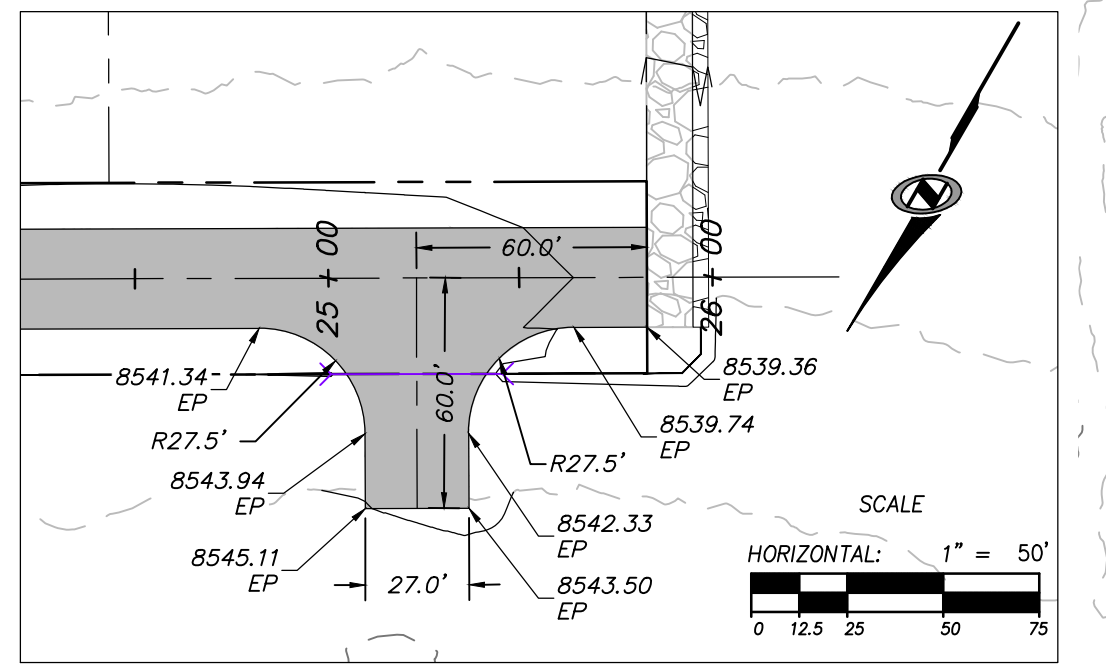
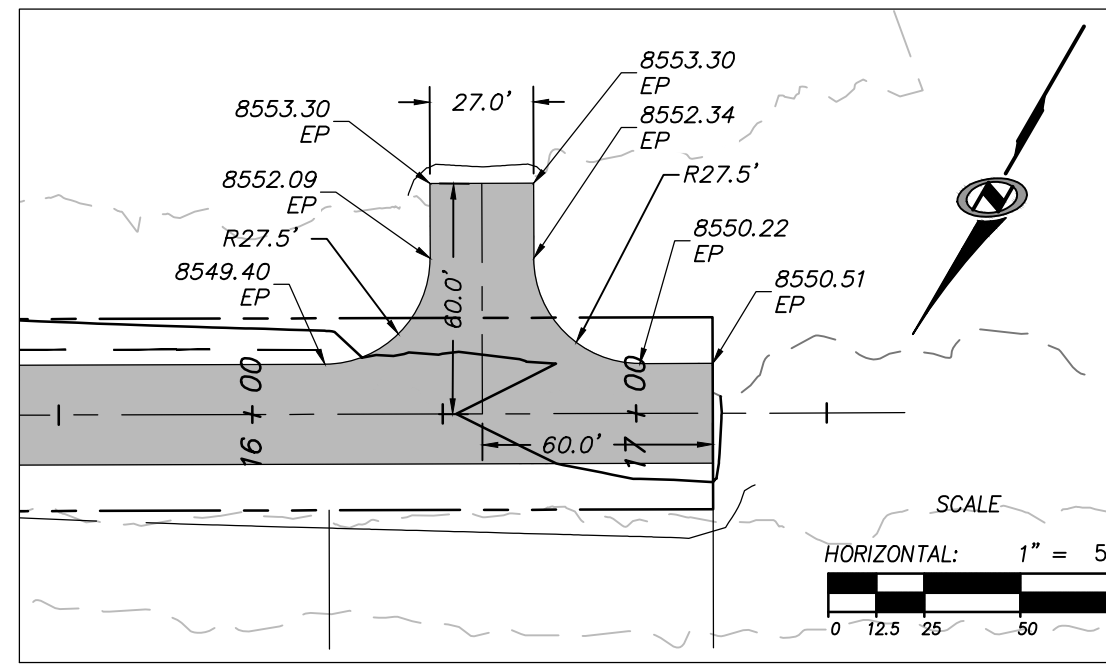
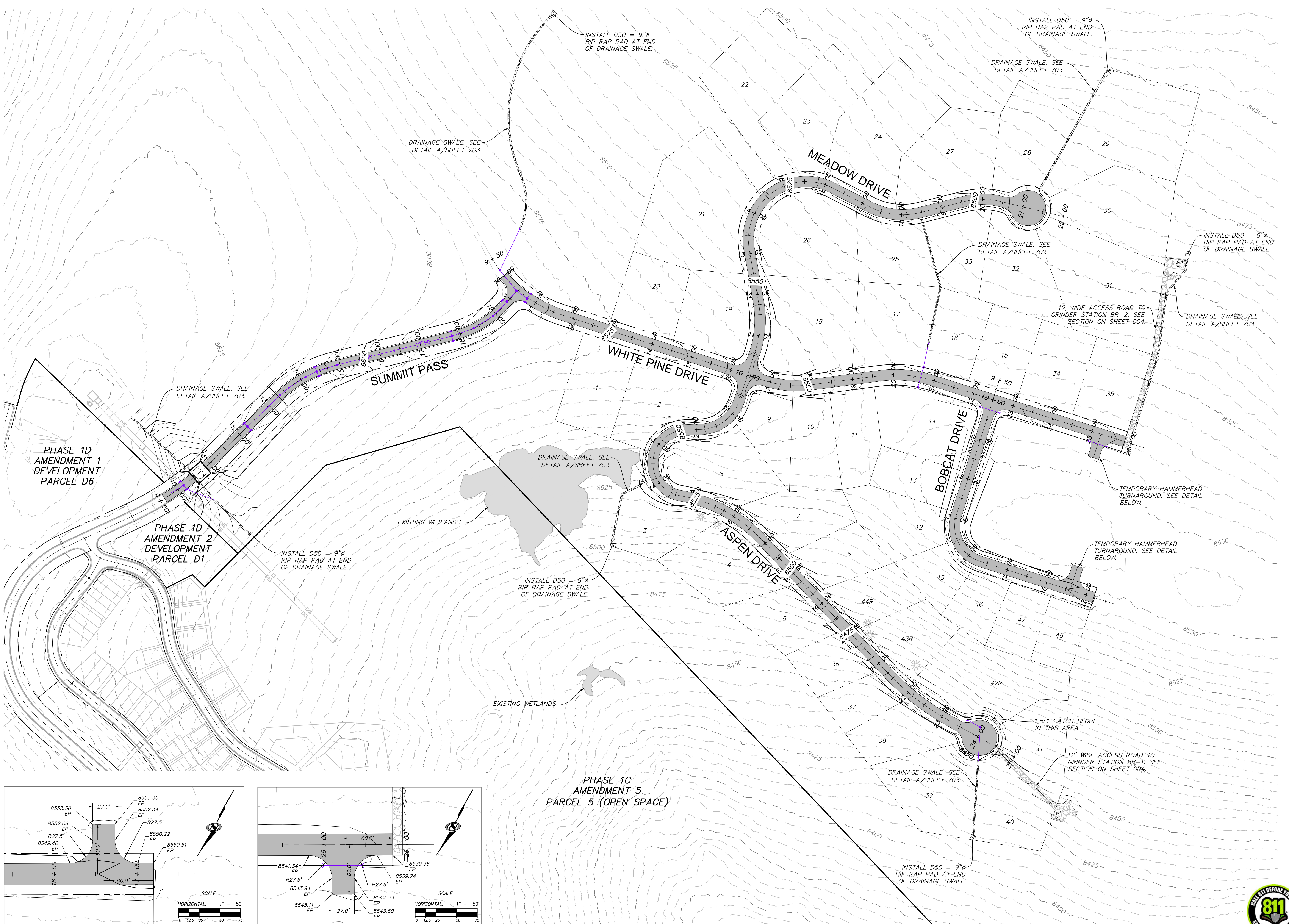
NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
**OVERALL SITE & GRADING PLAN**

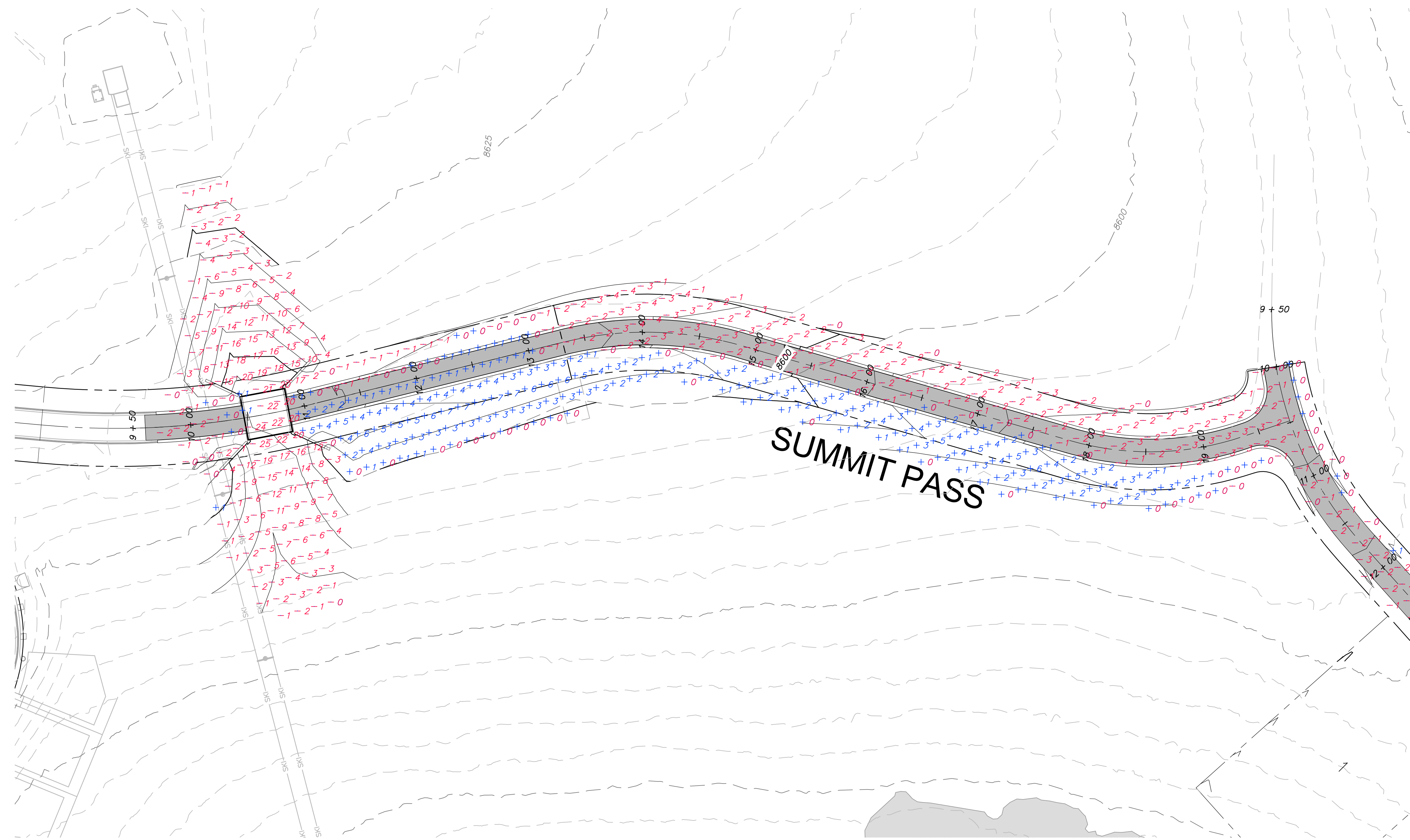
TCC JOB NUMBER: 18.200.22      DATE SUBMITTED: 10.24.2018



SHEET NUMBER  
**200**  
7 OF 61

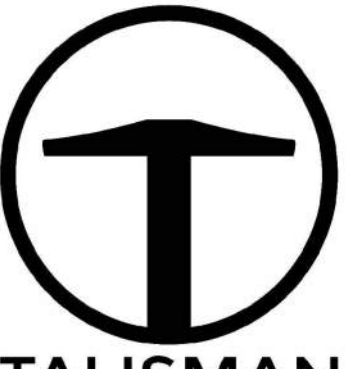


PHASE 1C AMENDMENT 5  
PARCEL 5 (OPEN SPACE)



**NOTE:**  
 PROPOSED CONTOURS AND EARTHWORK  
 QUANTITIES ARE TO SUBGRADE AND ARE FOR  
 REFERENCE ONLY. SEE PLAN AND PROFILE SHEETS  
 FOR FINISHED GRADE CONTOURS AND ELEVATIONS.

**EARTHWORK QUANTITIES:**  
 CUT: 34,946 Cu.Yd.  
 FILL: 9,970 Cu.Yd.  
 NET (CUT): 24,976 Cu.Yd.



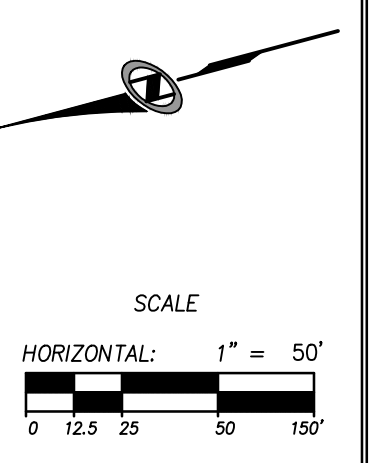
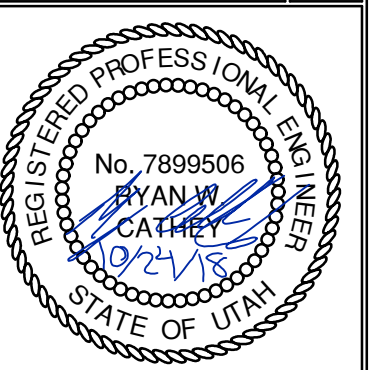
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 SUITE 200  
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 801.743.1300

NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
**SITE CUT-FILL**

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22



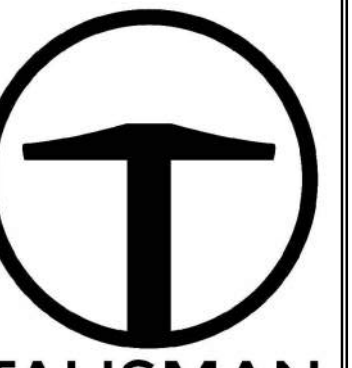
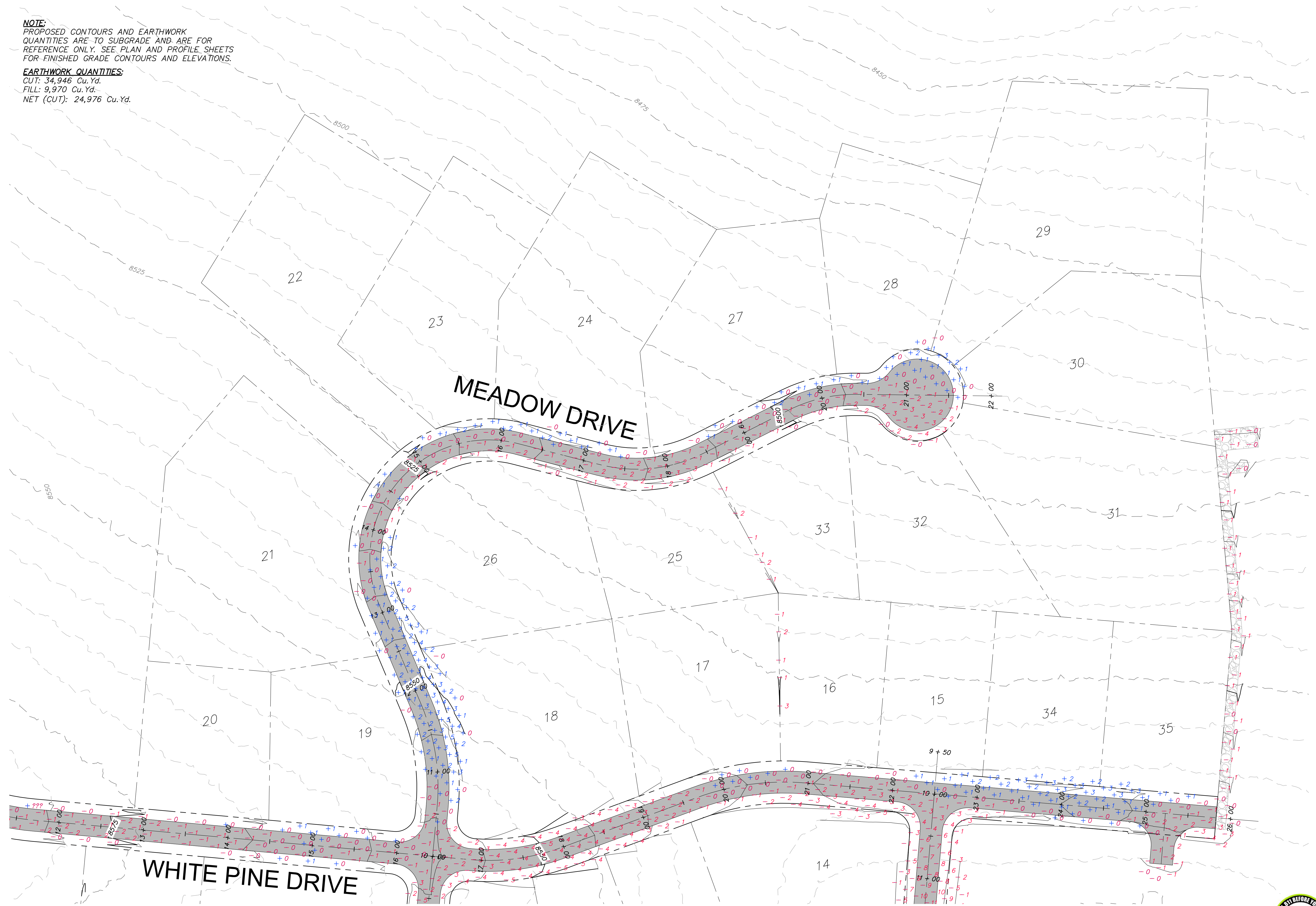


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**NOTE:**  
PROPOSED CONTOURS AND EARTHWORK  
QUANTITIES ARE TO SUBGRADE AND ARE FOR  
REFERENCE ONLY. SEE PLAN AND PROFILE SHEETS  
FOR FINISHED GRADE CONTOURS AND ELEVATIONS.

**EARTHWORK QUANTITIES:**  
CUT: 34,946 Cu.Yd.  
FILL: 9,970 Cu.Yd.  
NET (CUT): 24,976 Cu.Yd.



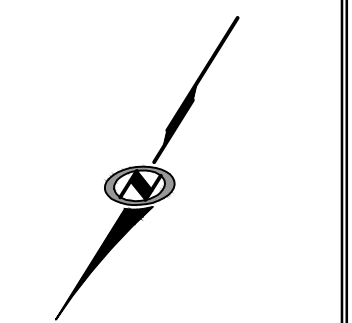
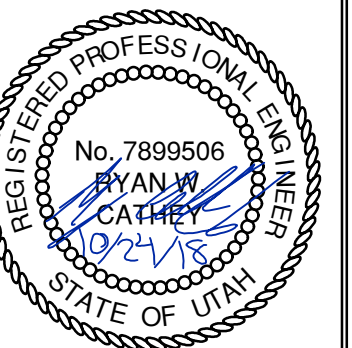
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NO.	BY	DATE	REVISIONS

# BOBCAT RIDGE AT S.P.M. SITE CUT-FILL

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22



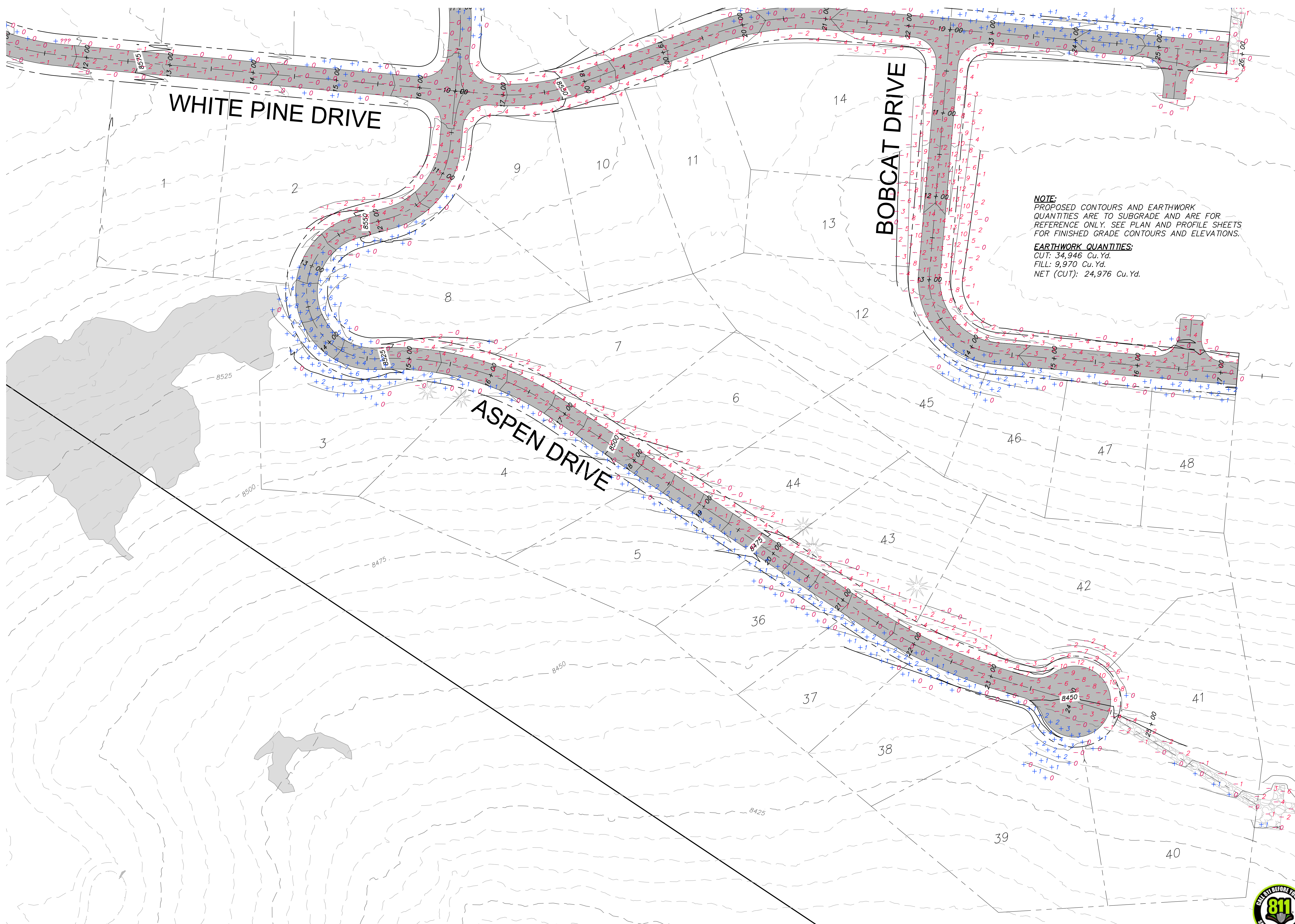
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SHEET NUMBER  
**202**  
9 OF 61



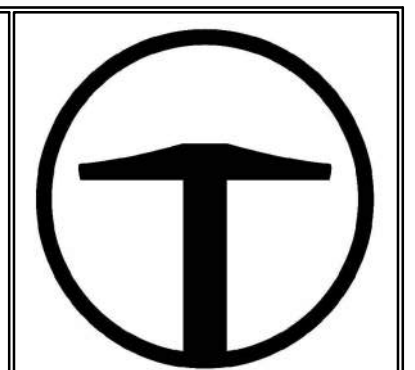
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PATH: N:\SIBD793\Cad\18-200-22-gather estate lots - bobcat ridge\18-200-22-SITE CUT-FILL.dwg



**NOTE:**  
 PROPOSED CONTOURS AND EARTHWORK QUANTITIES ARE TO SUBGRADE AND ARE FOR REFERENCE ONLY. SEE PLAN AND PROFILE SHEETS FOR FINISHED GRADE CONTOURS AND ELEVATIONS.

**EARTHWORK QUANTITIES:**  
 CUT: 34,946 Cu.Yd.  
 FILL: 9,970 Cu.Yd.  
 NET (CUT): 24,976 Cu.Yd.



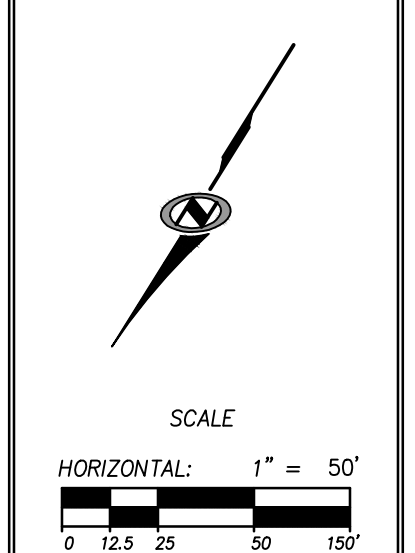
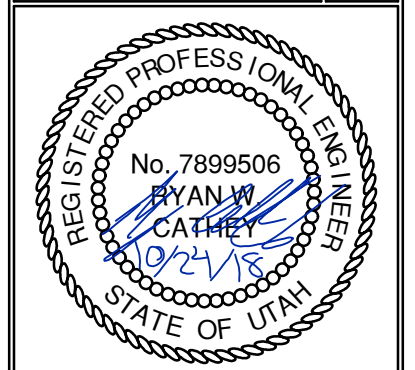
**TALISMAN**  
 CIVIL CONSULTANTS  
 6217 SOUTH STATE STREET  
 SUITE 200  
 MURRAY, UT 84107  
 801.743.1300

NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 SITE CUT-FILL

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22



SHEET NUMBER  
**203**  
 10 OF 61





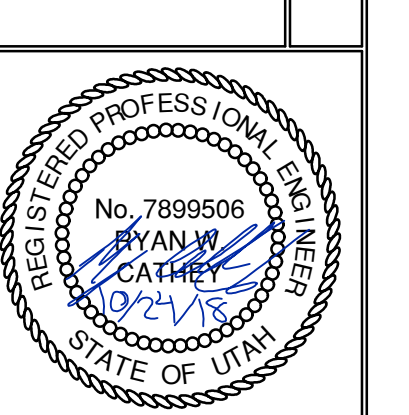
TALISMAN CIVIL CONSULTANTS  
5217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	BY	DATE	REVISIONS

TCC JOB NUMBER: 18-200.22

DATE SUBMITTED: 10.24.2018

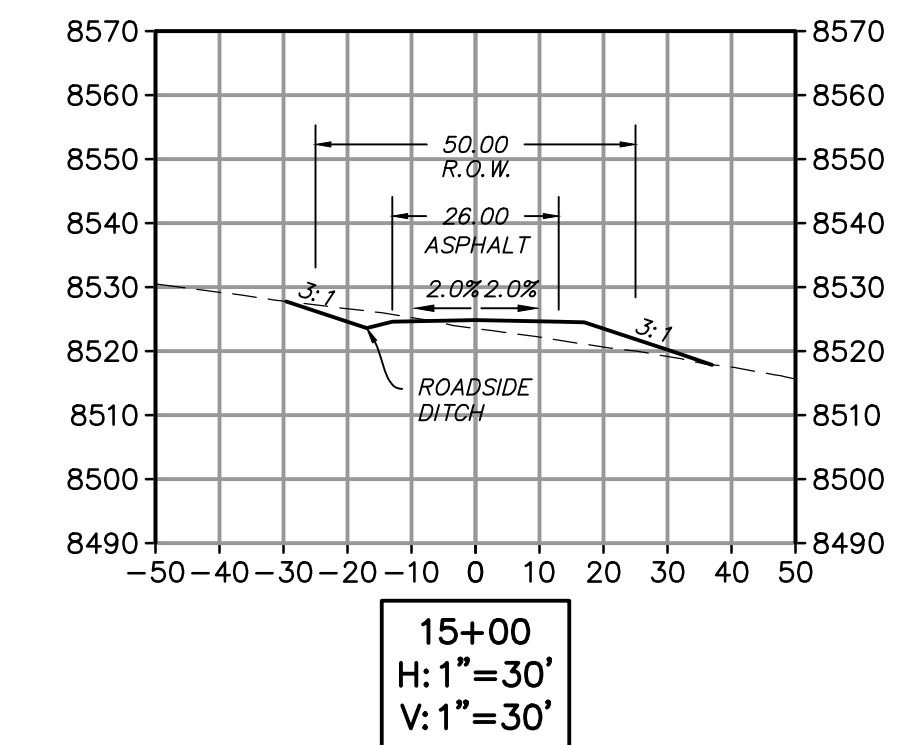
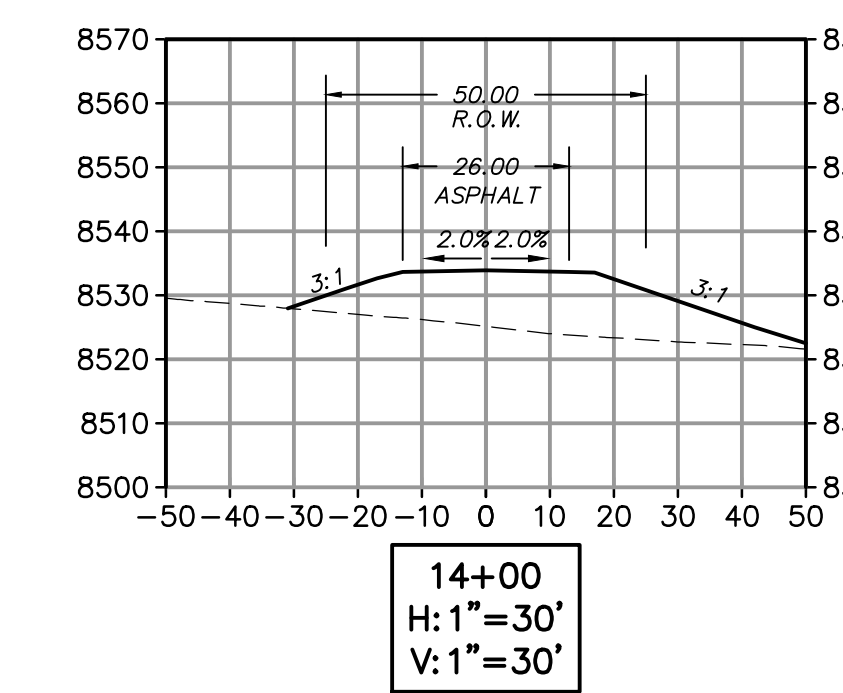
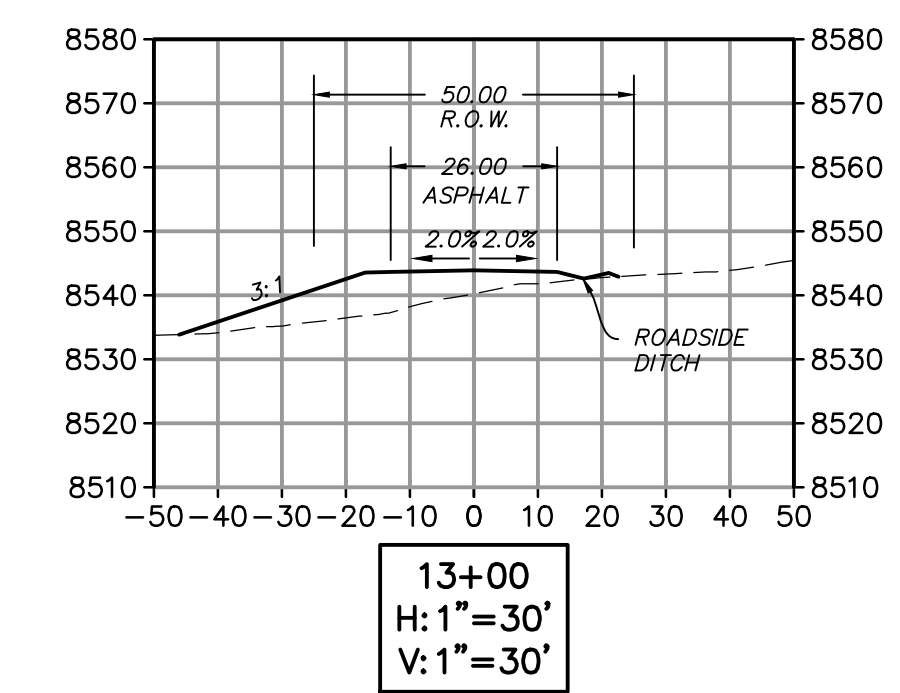
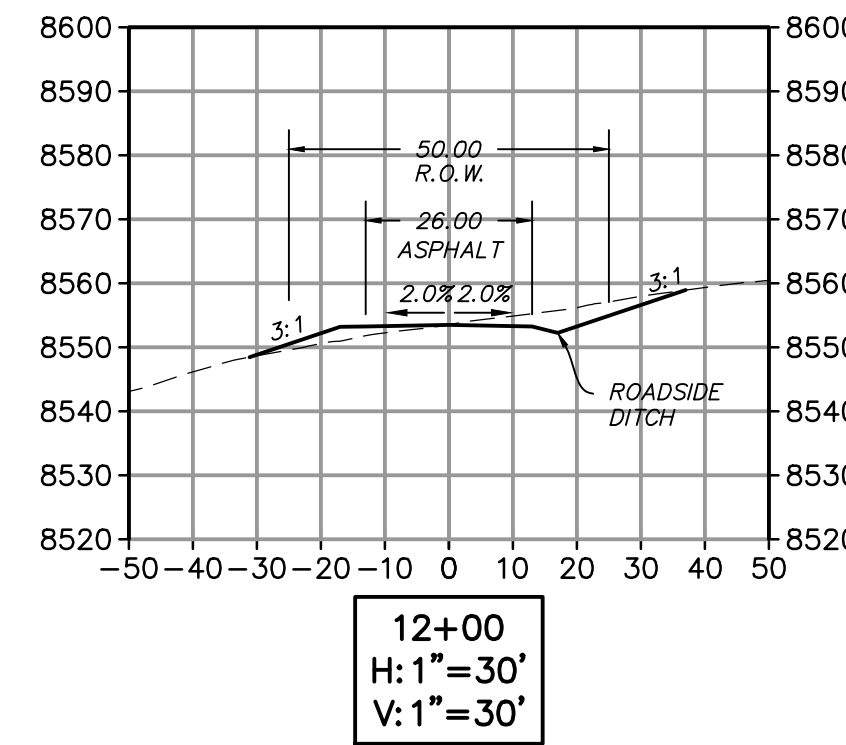
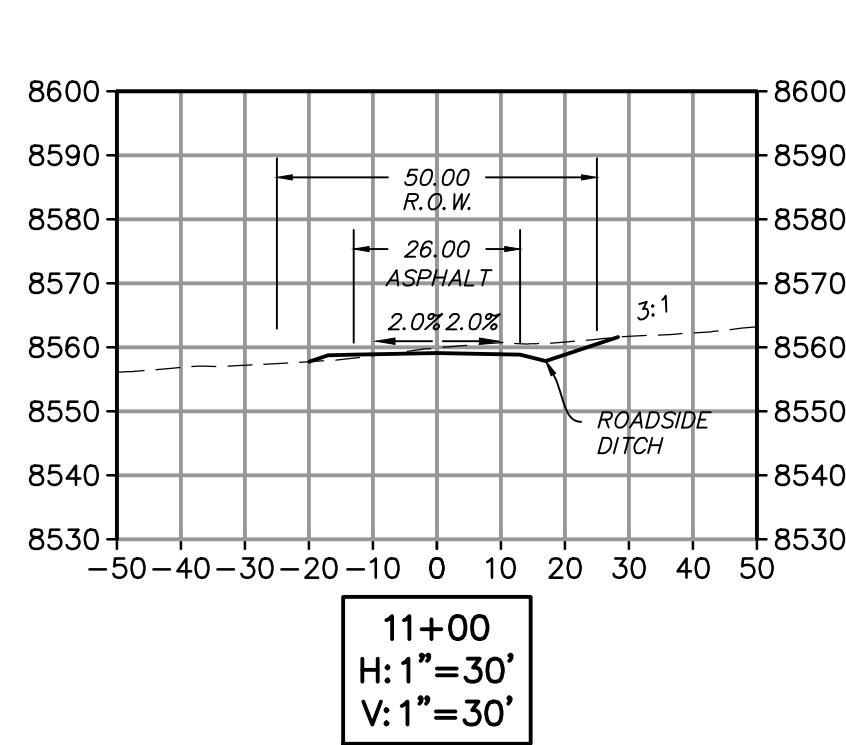
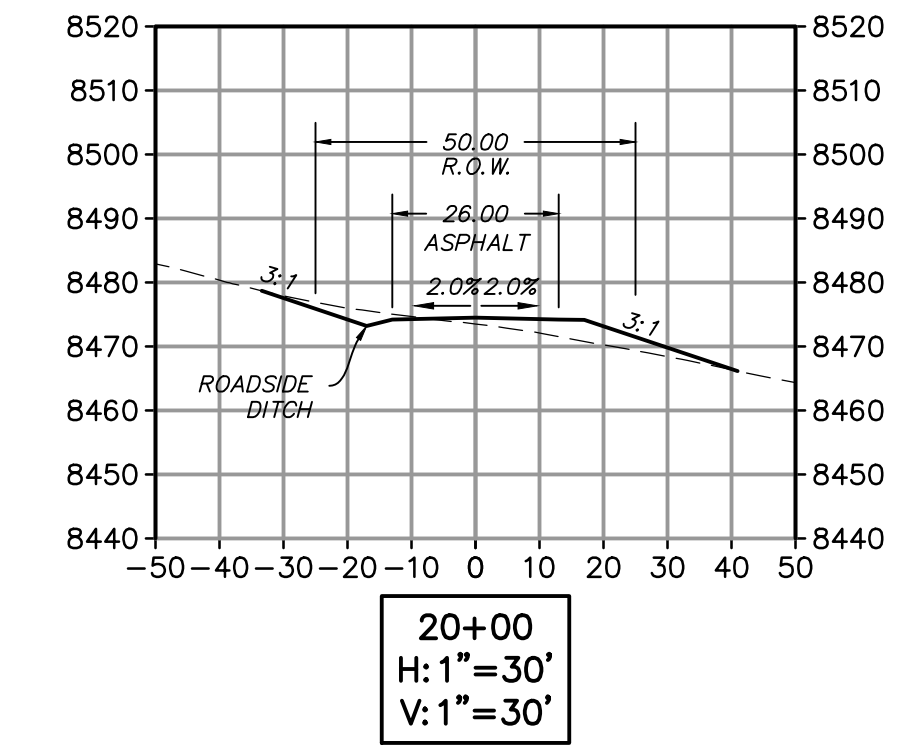
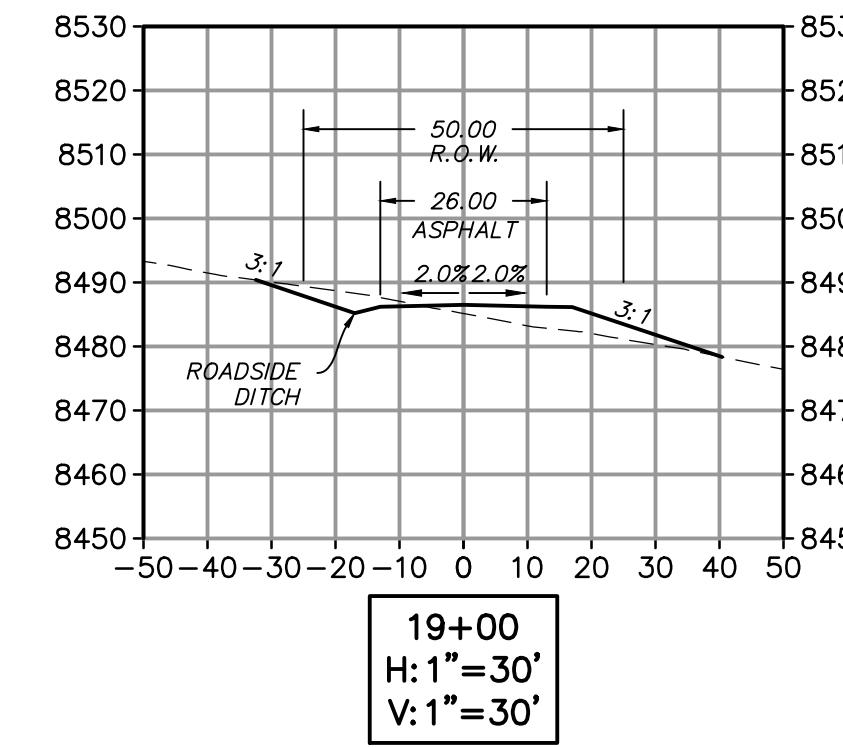
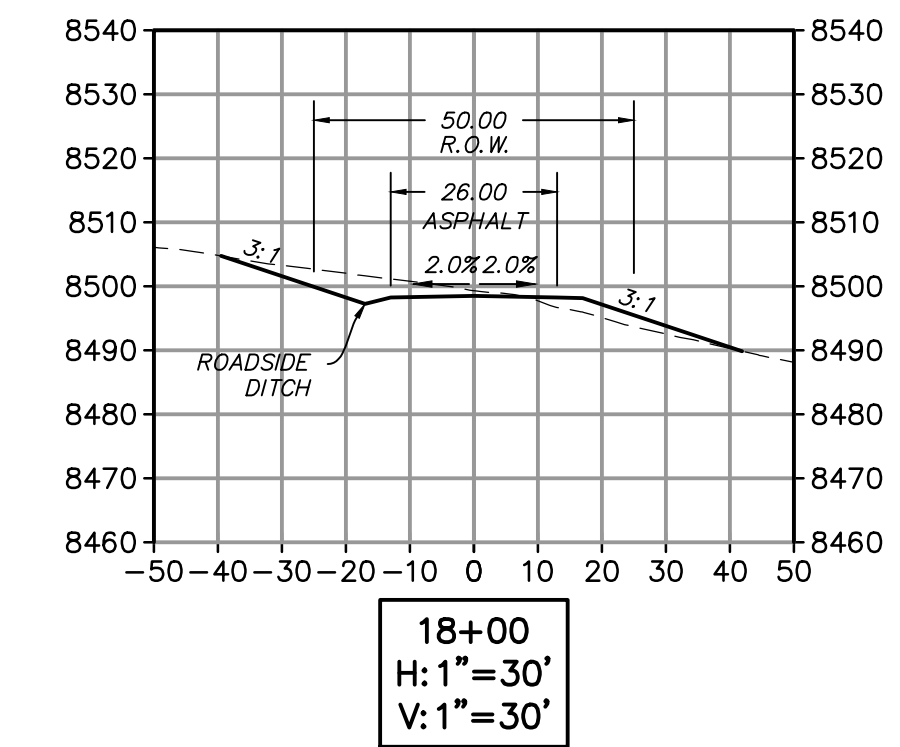
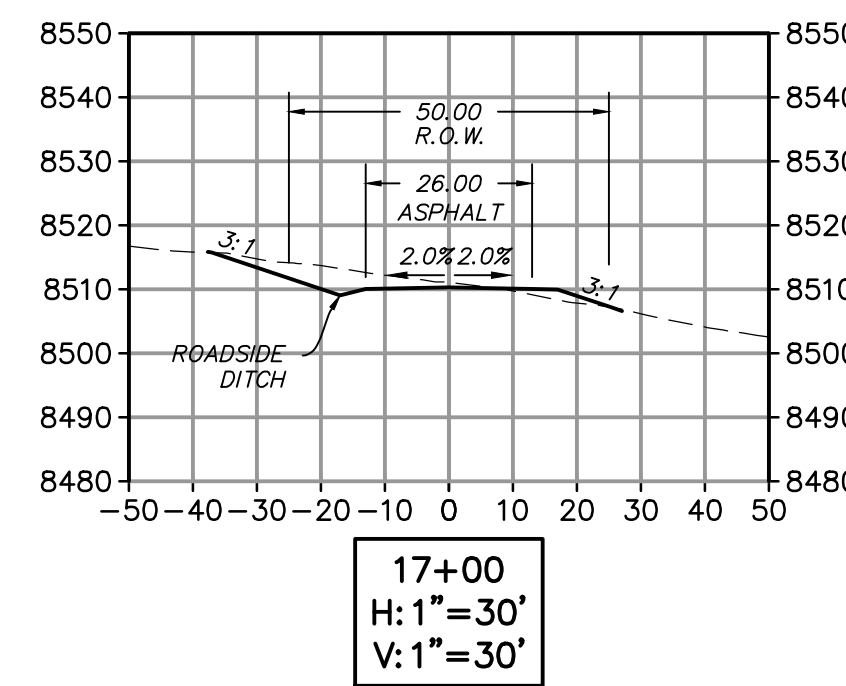
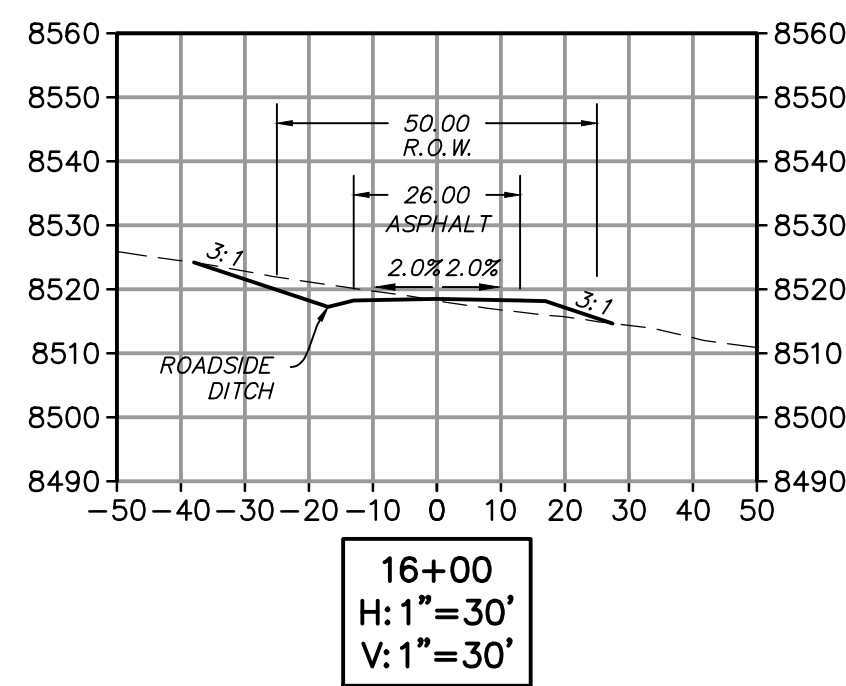
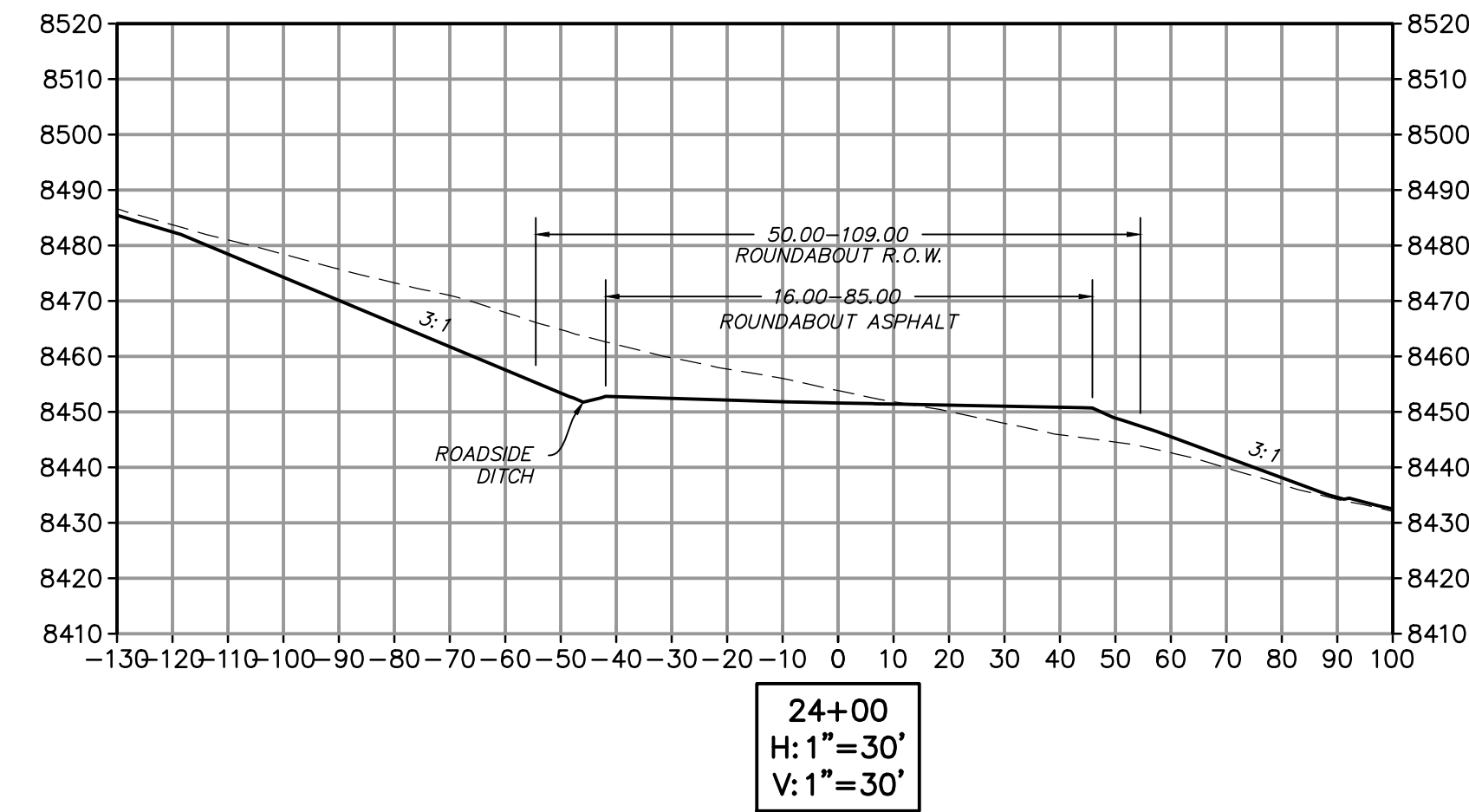
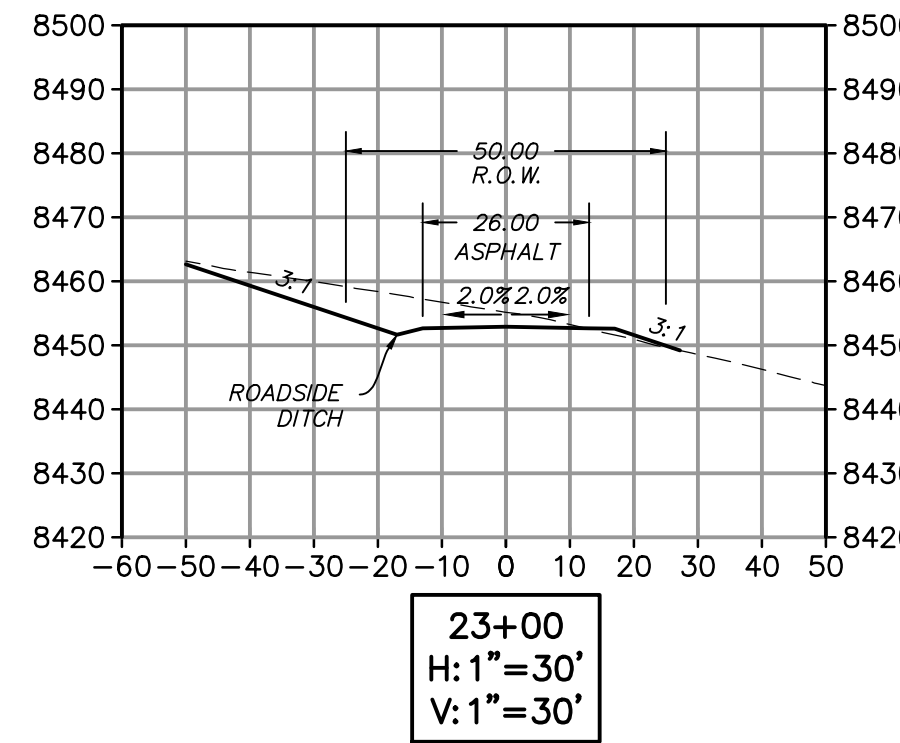
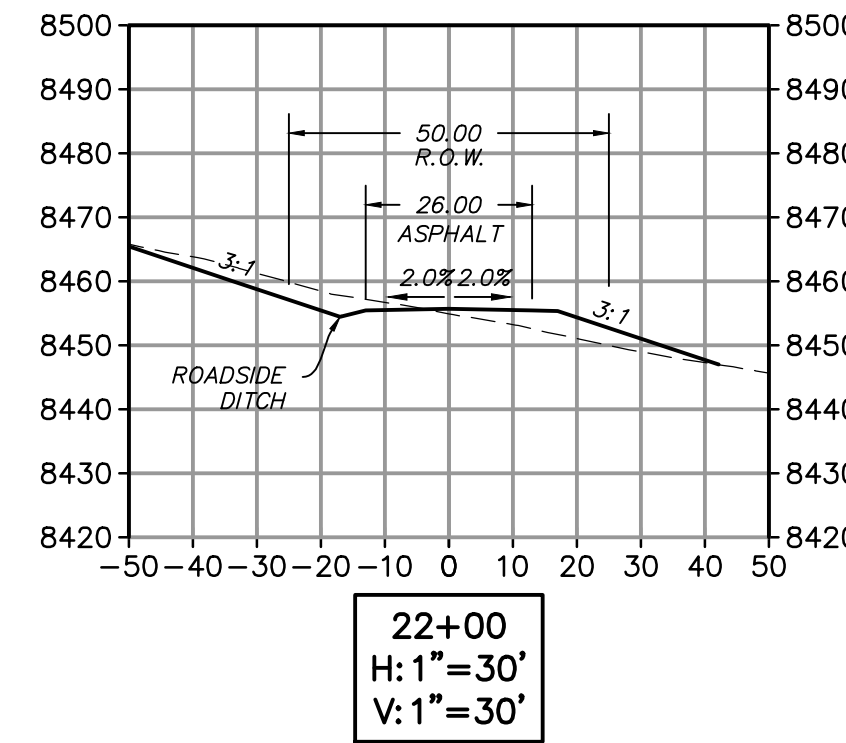
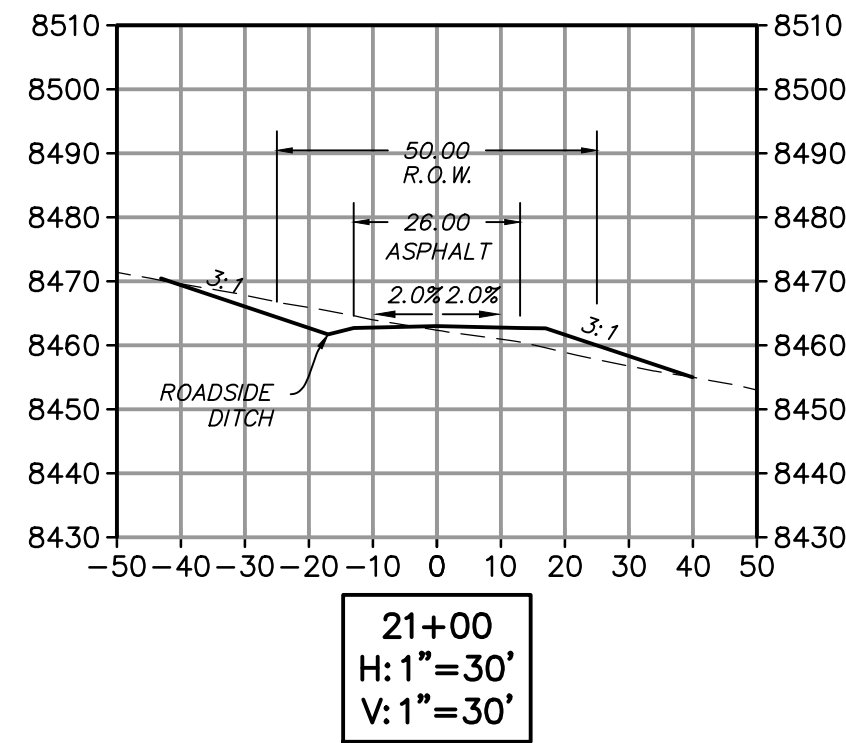
BOBCAT RIDGE AT S.P.M.  
ROADWAY SECTIONS



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HORIZONTAL: 1" = 30'

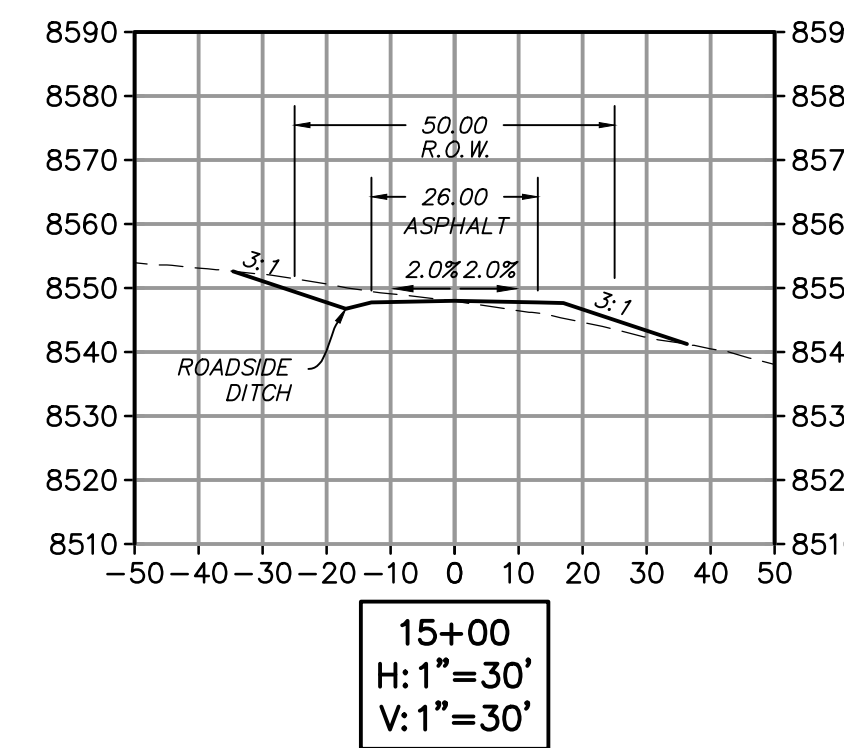
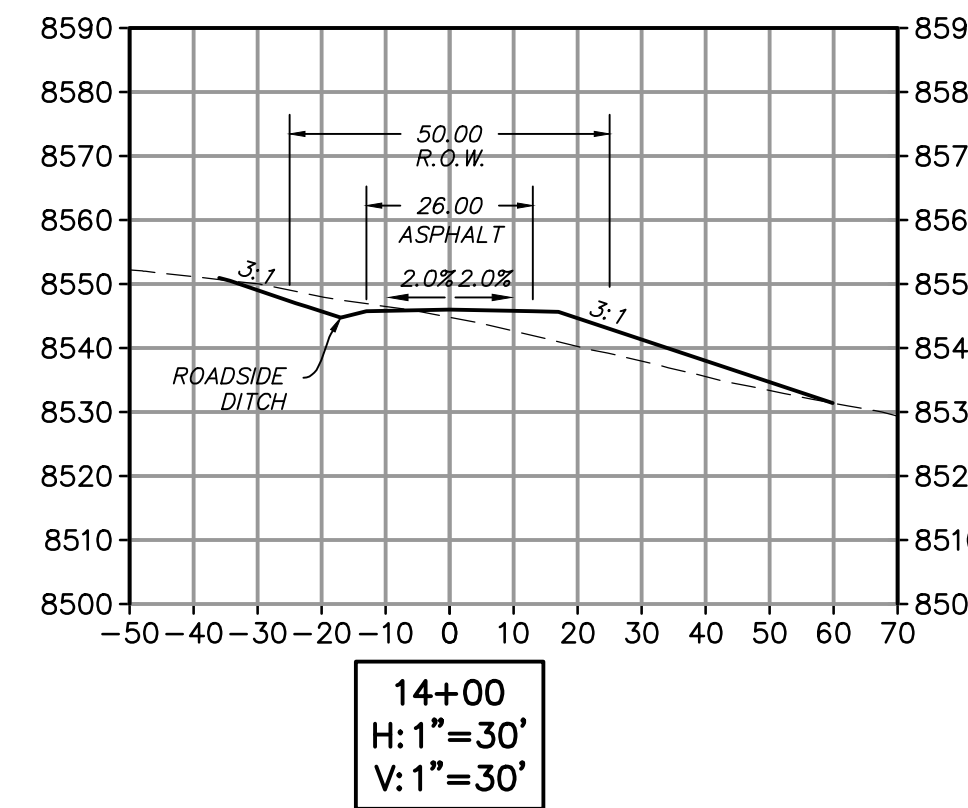
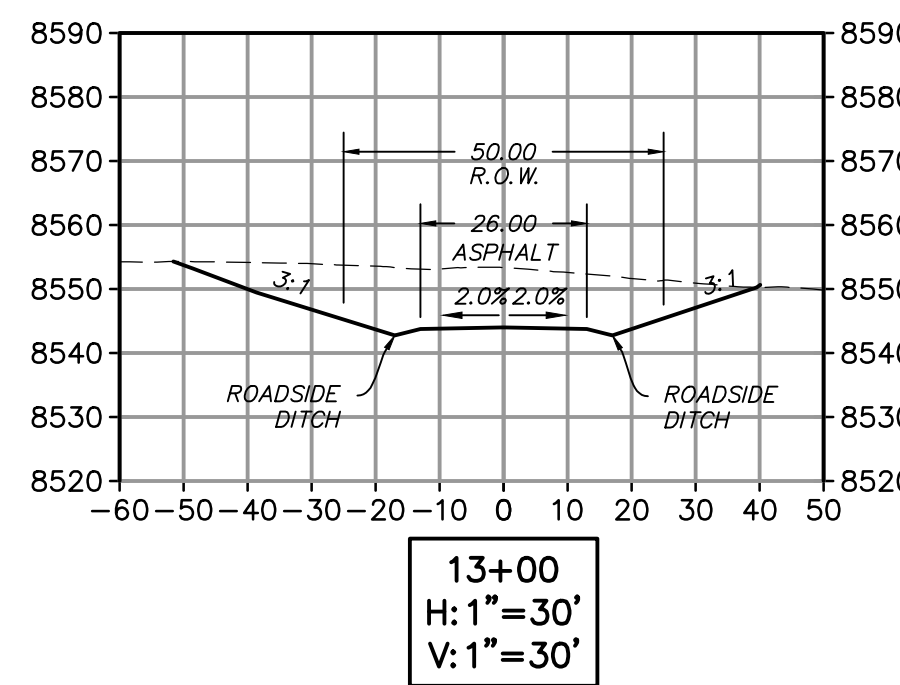
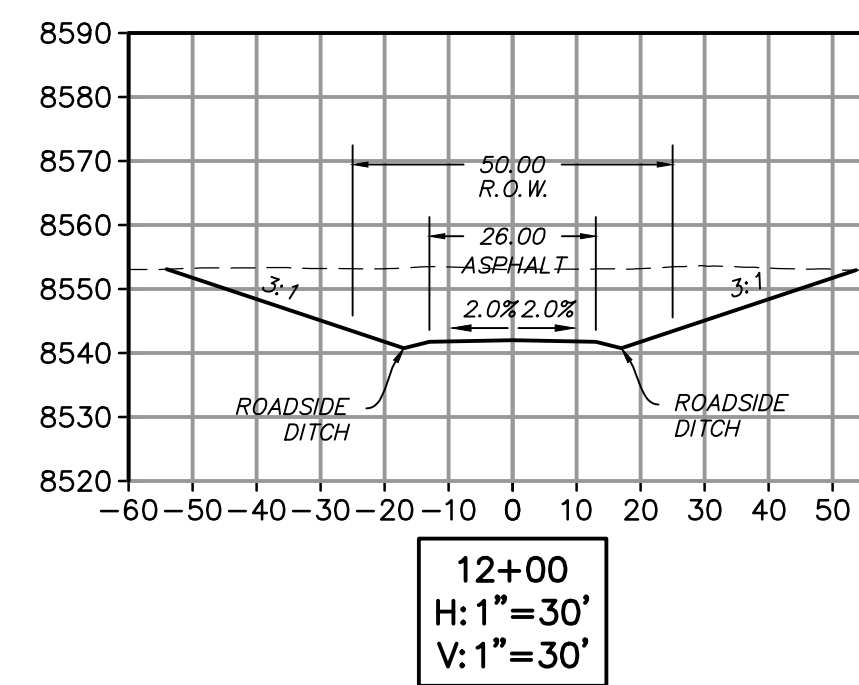
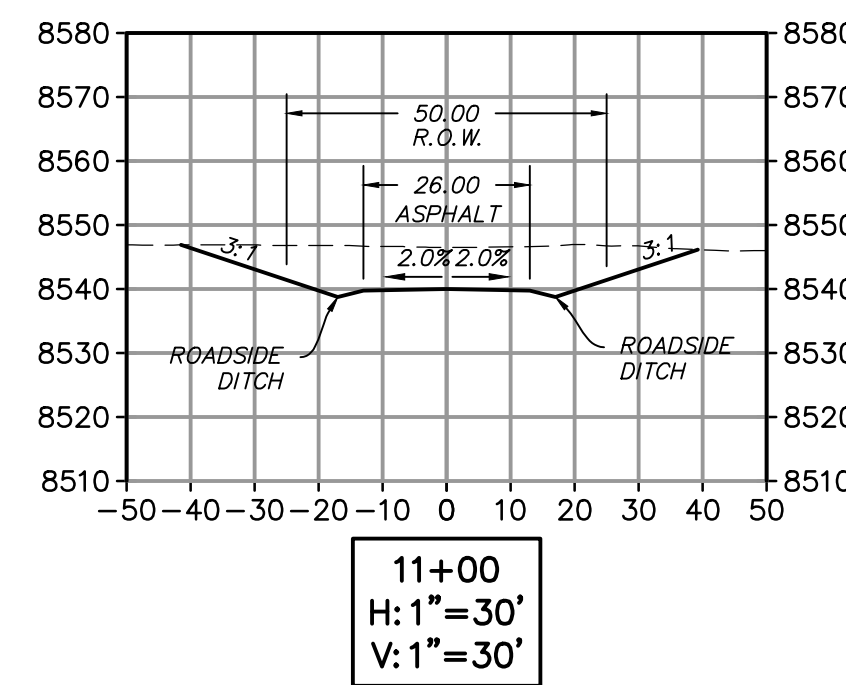
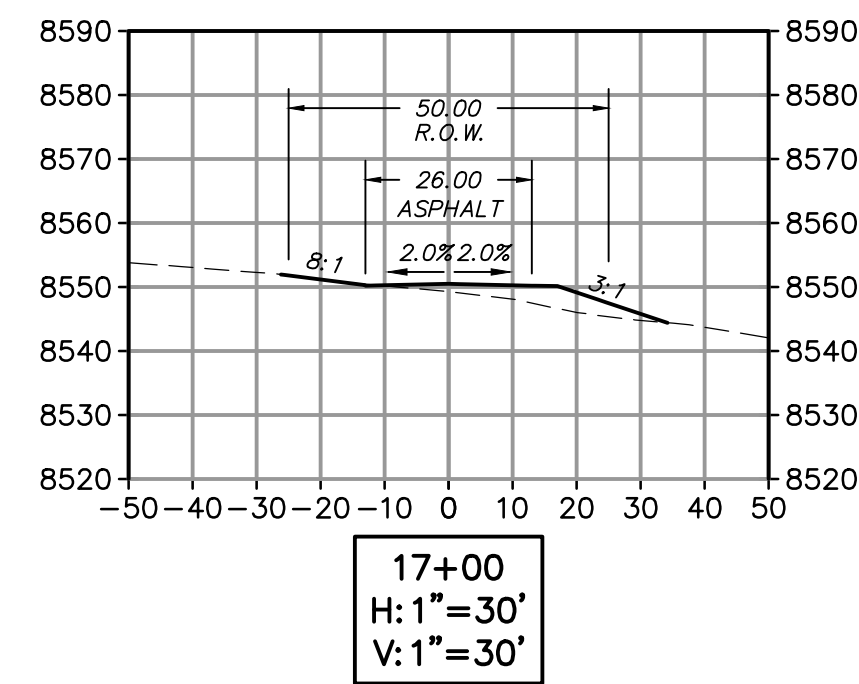
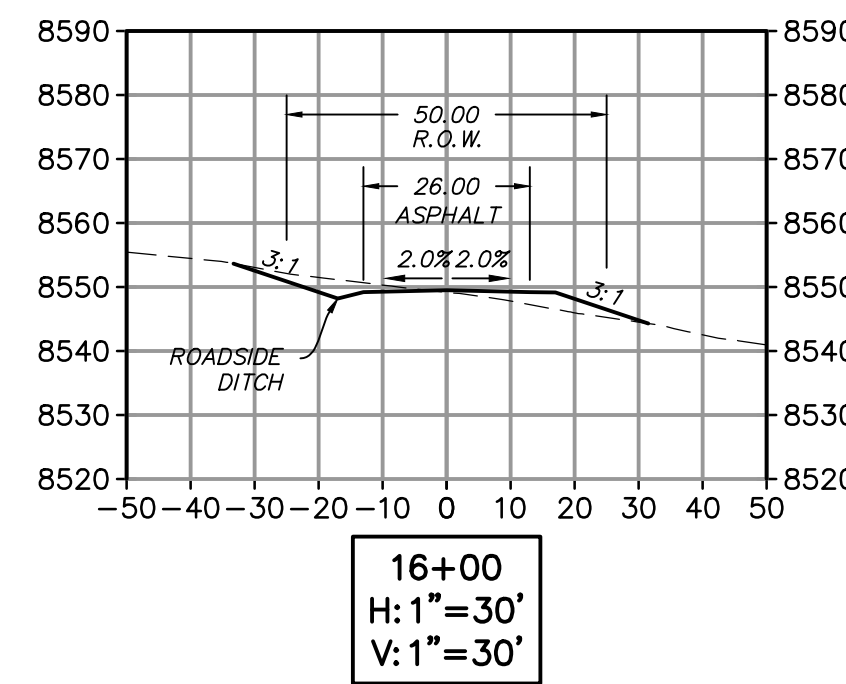
SHEET NUMBER  
**204**  
11 OF 61



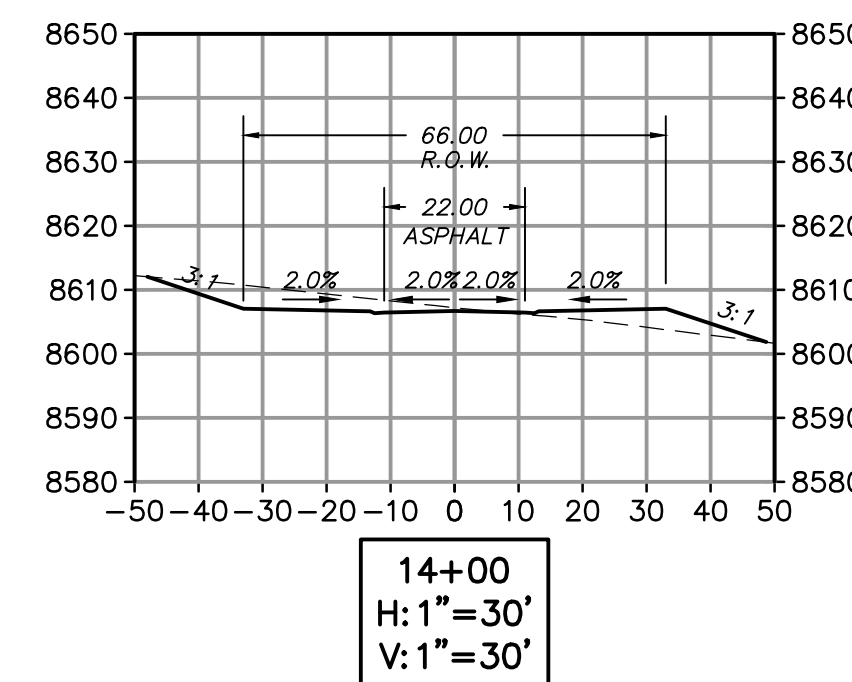
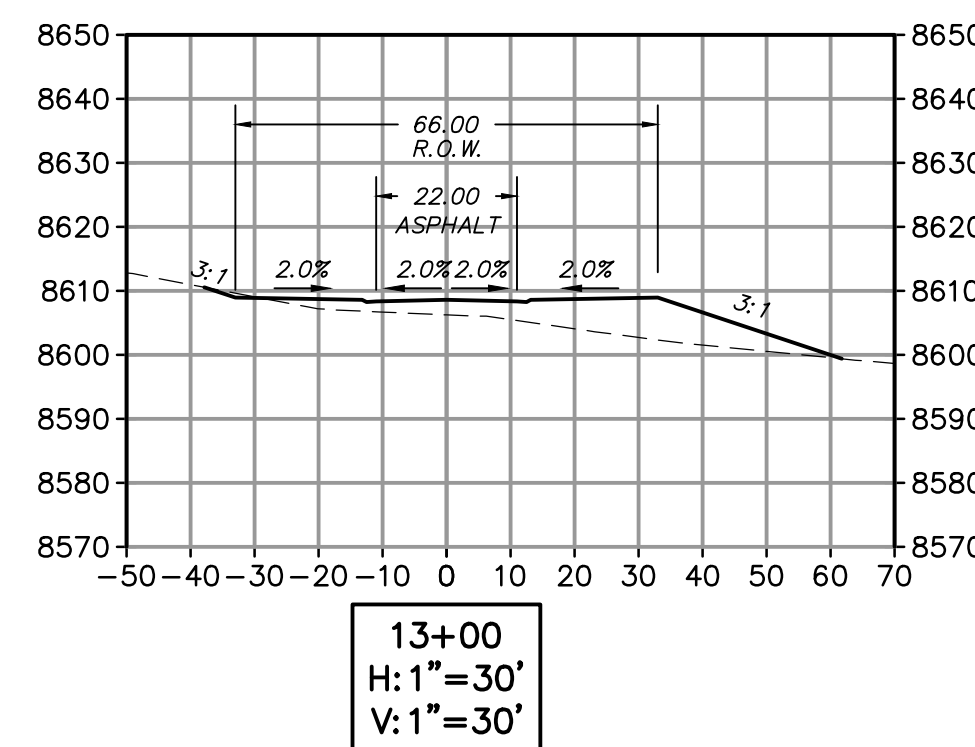
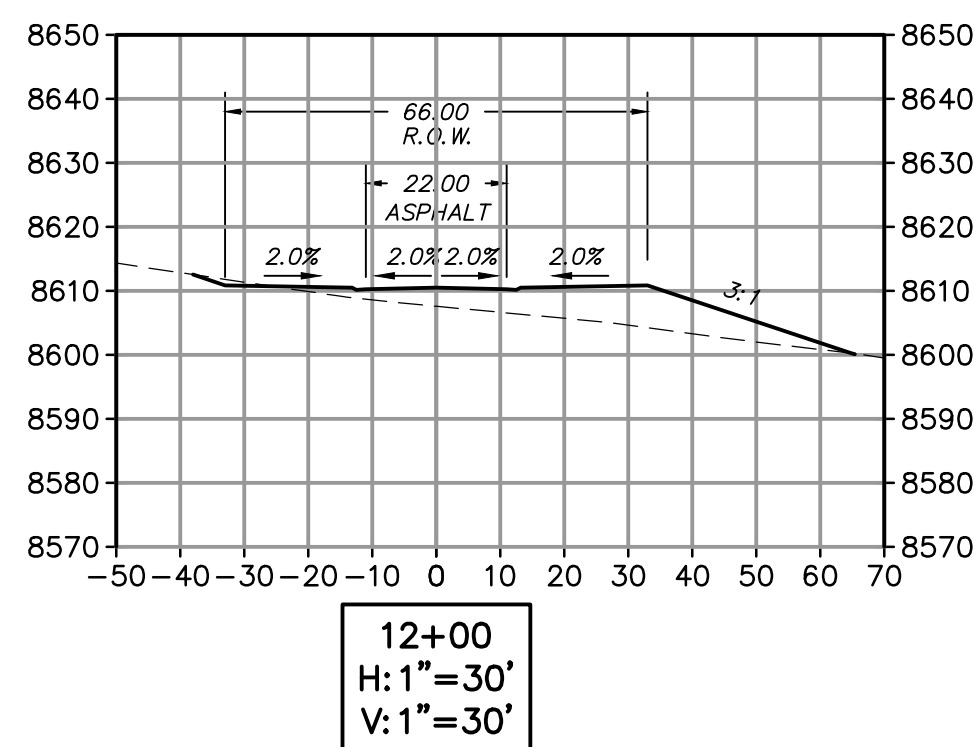
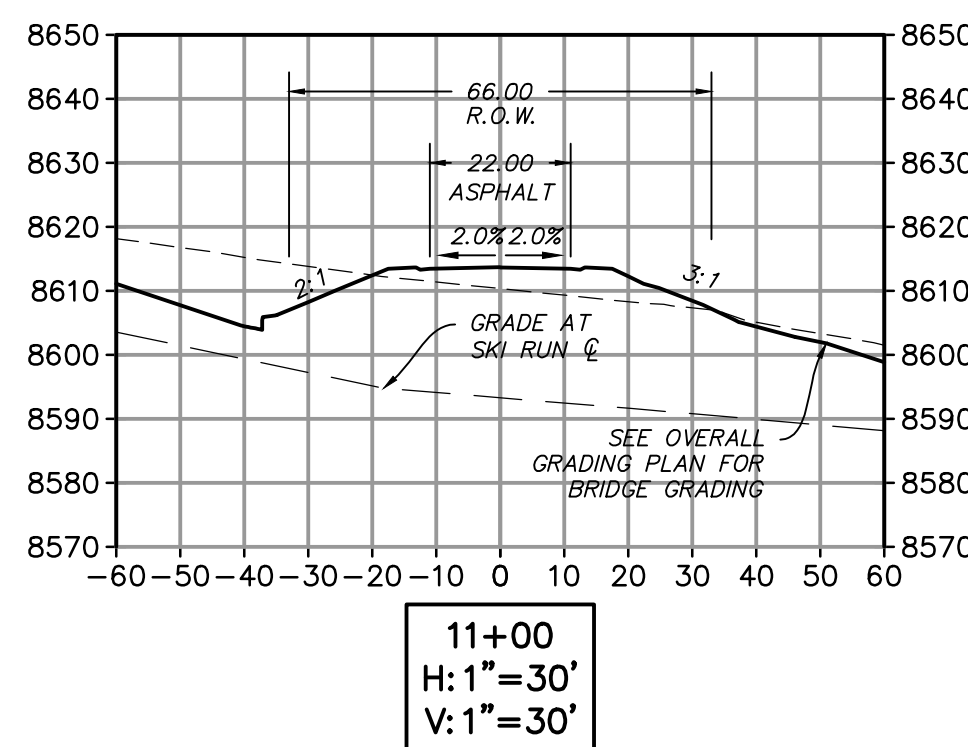
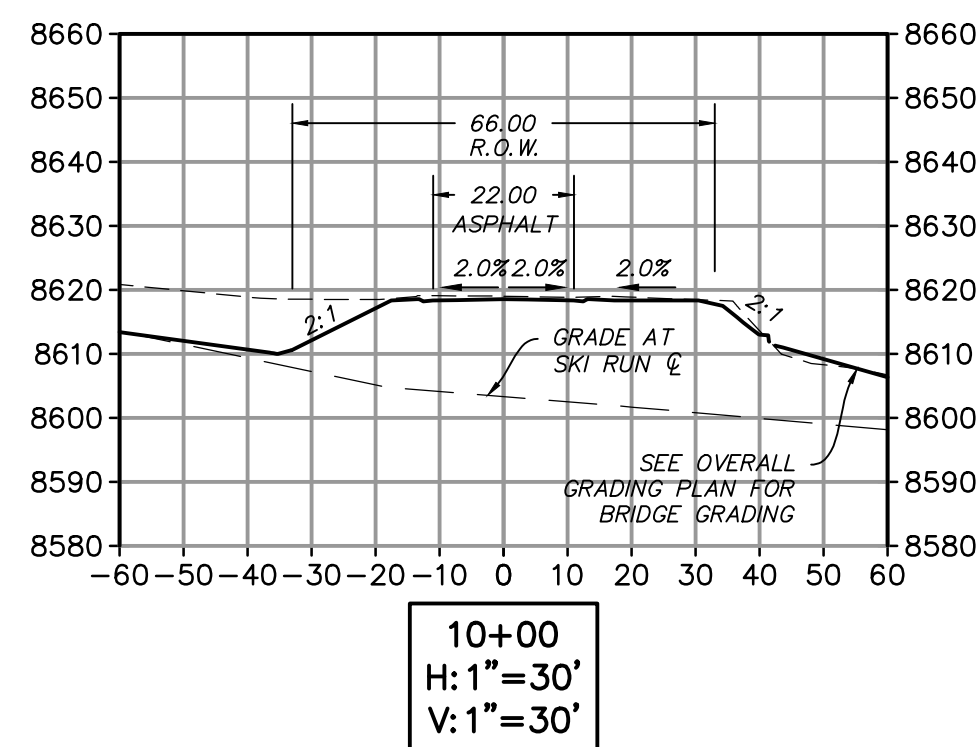
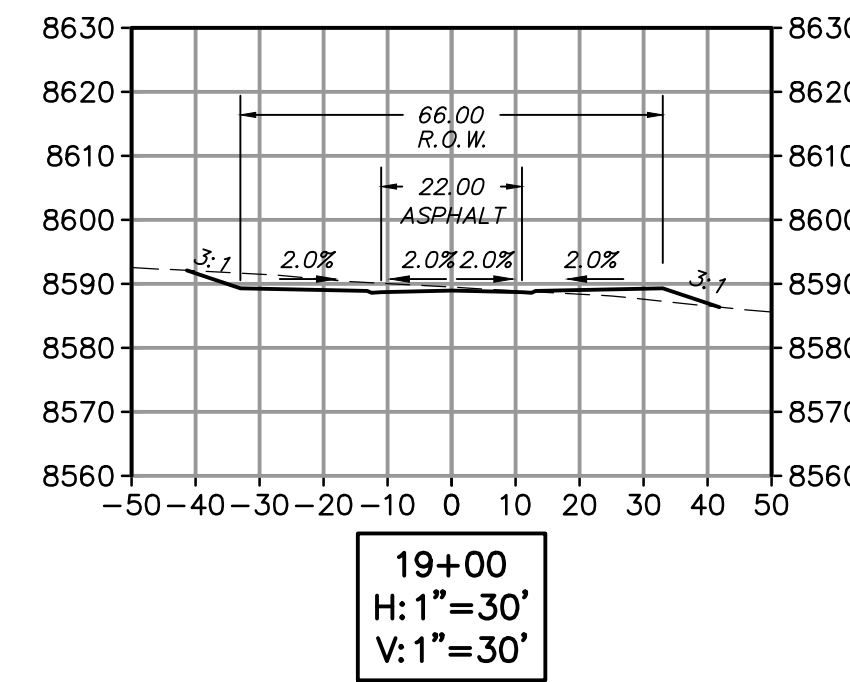
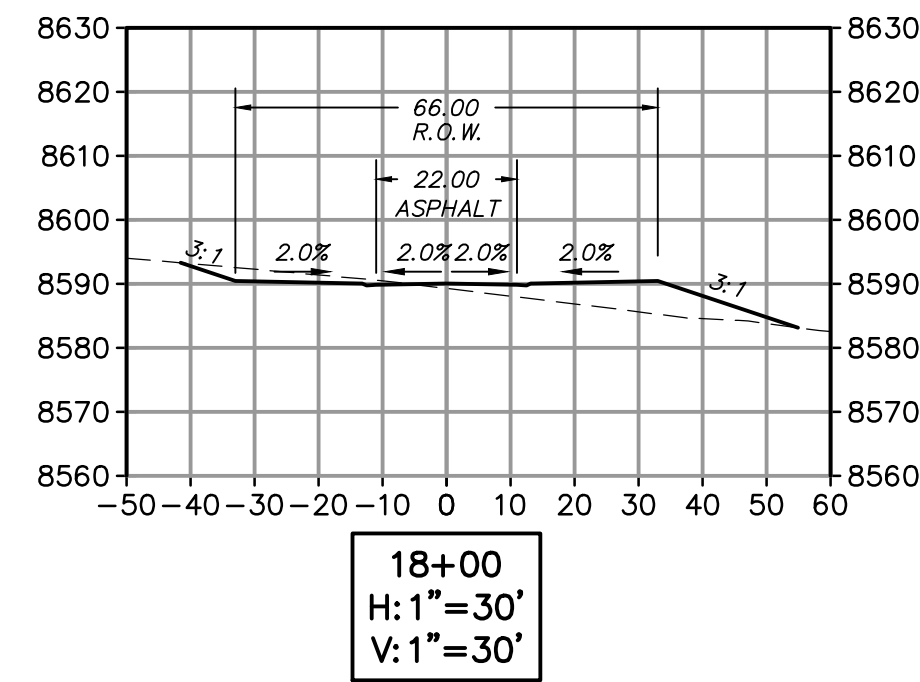
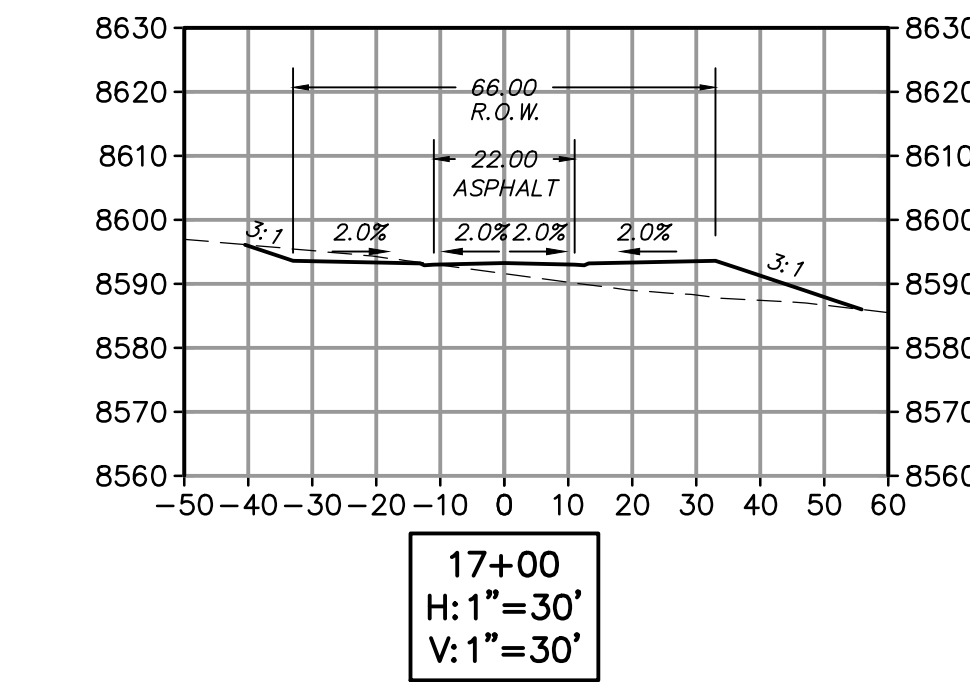
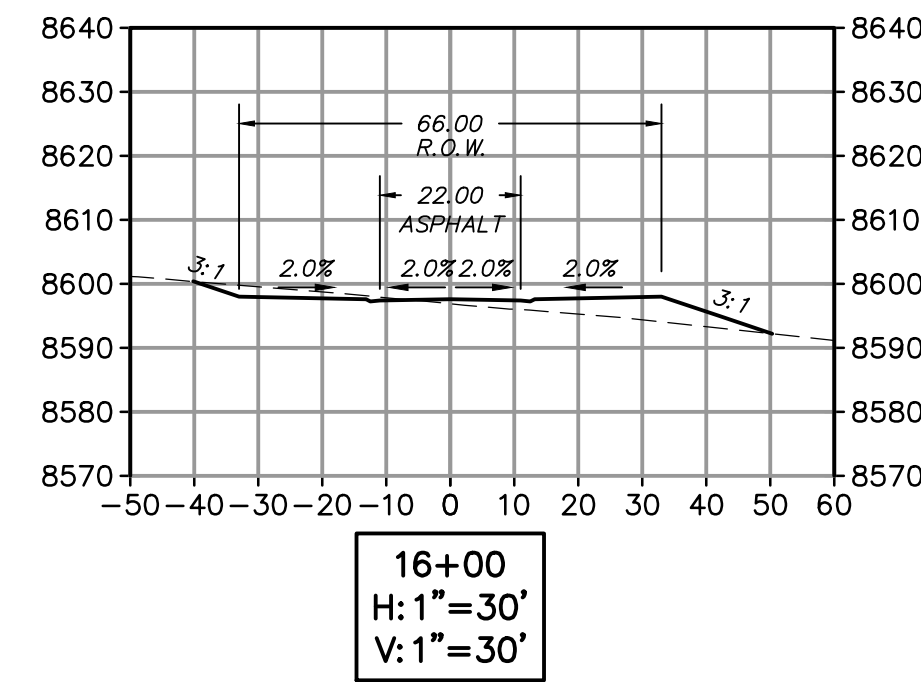
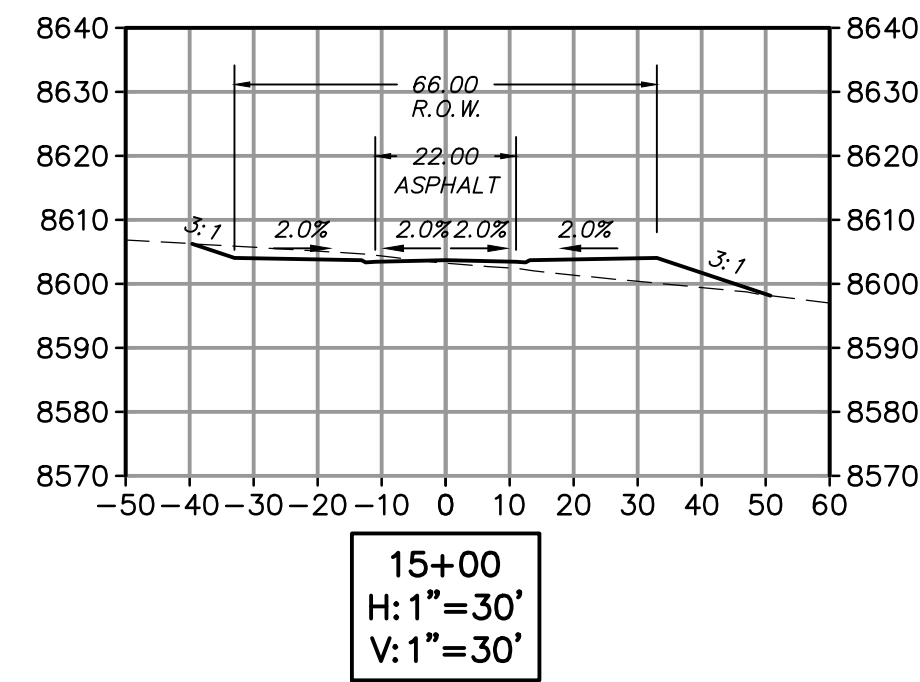
ASPEN DRIVE ROADWAY SECTIONS



NO.	BY	DATE	REVISIONS



BOBCAT DRIVE ROADWAY SECTIONS

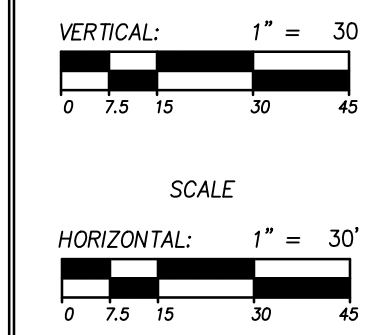


SUMMIT PASS EXTENSION ROADWAY SECTIONS

**BOBCAT RIDGE AT S.P.M.**  
ROADWAY SECTIONS

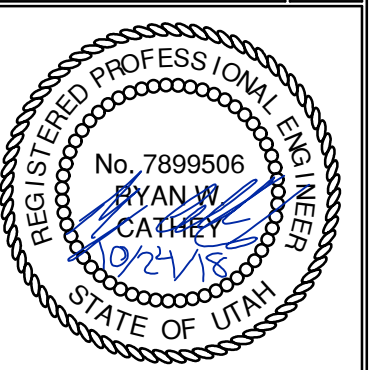
DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18\_200.22

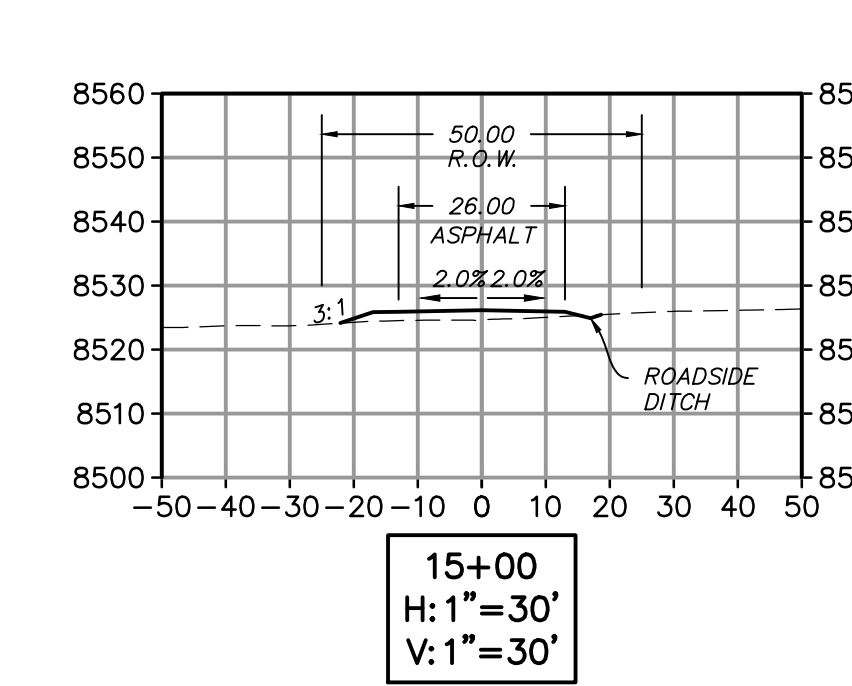
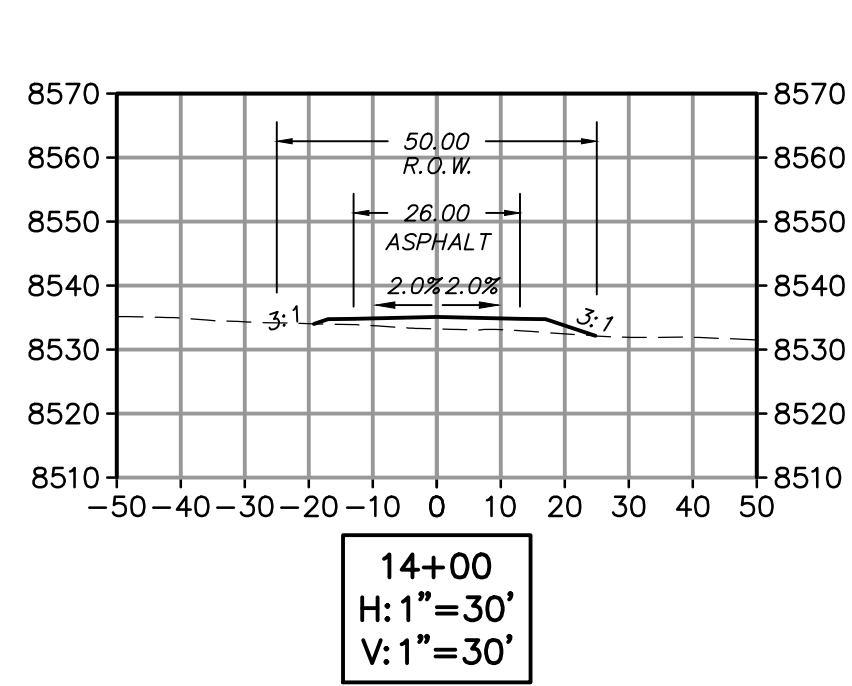
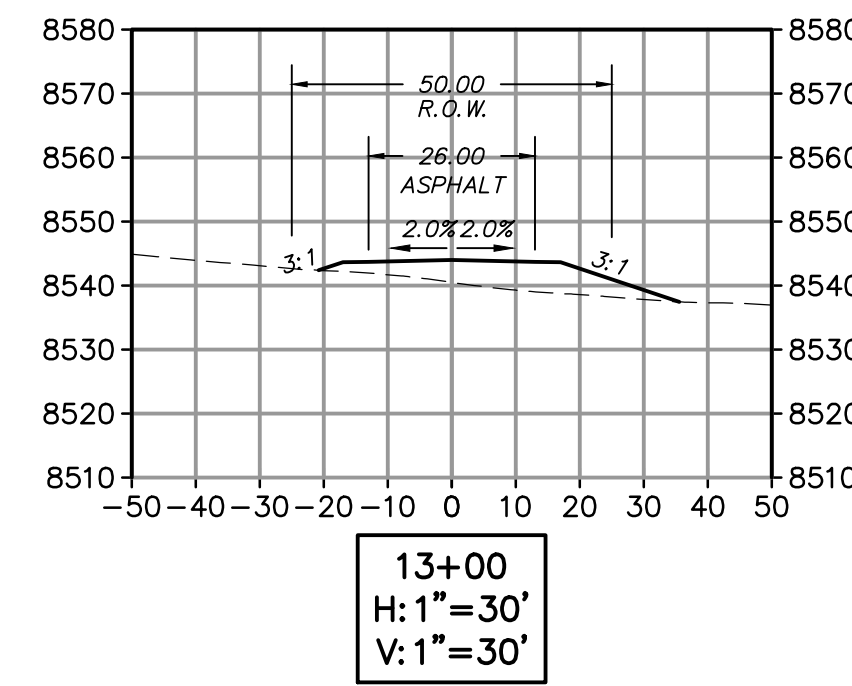
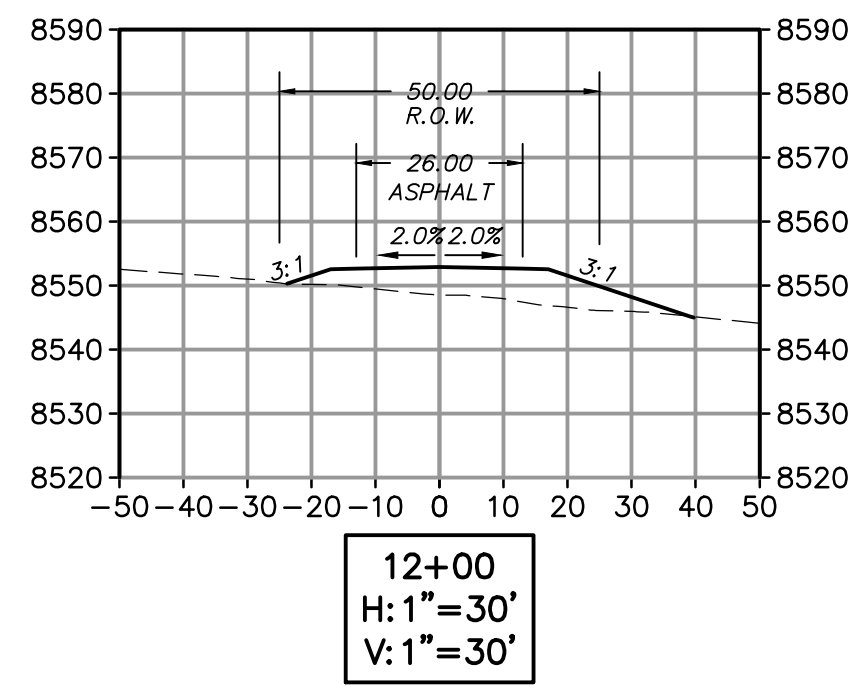
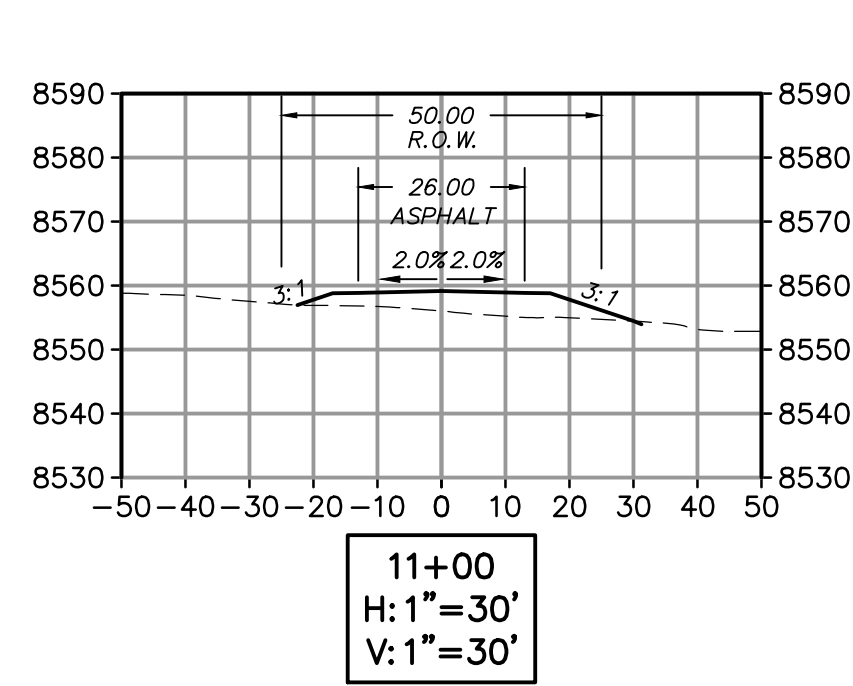
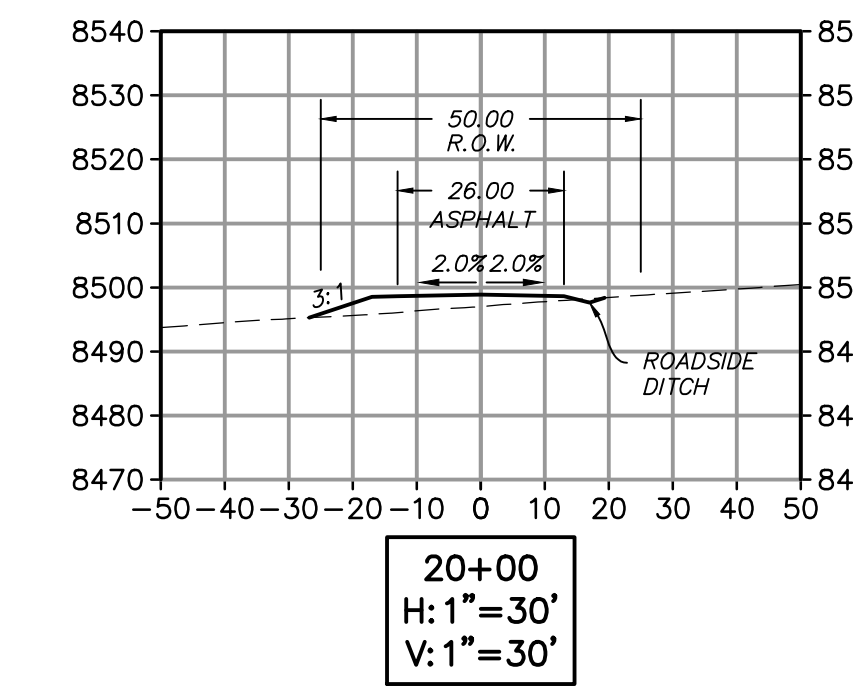
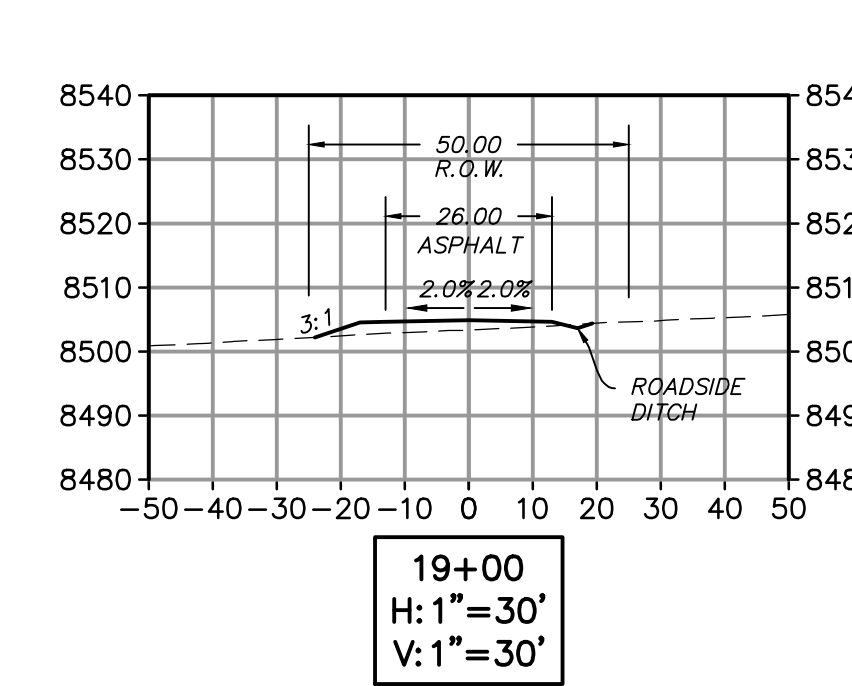
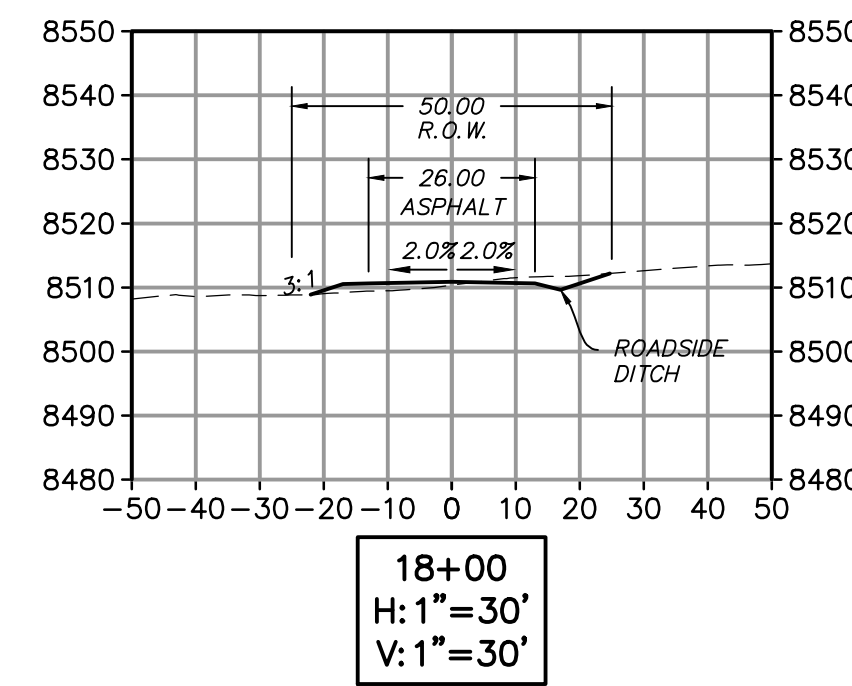
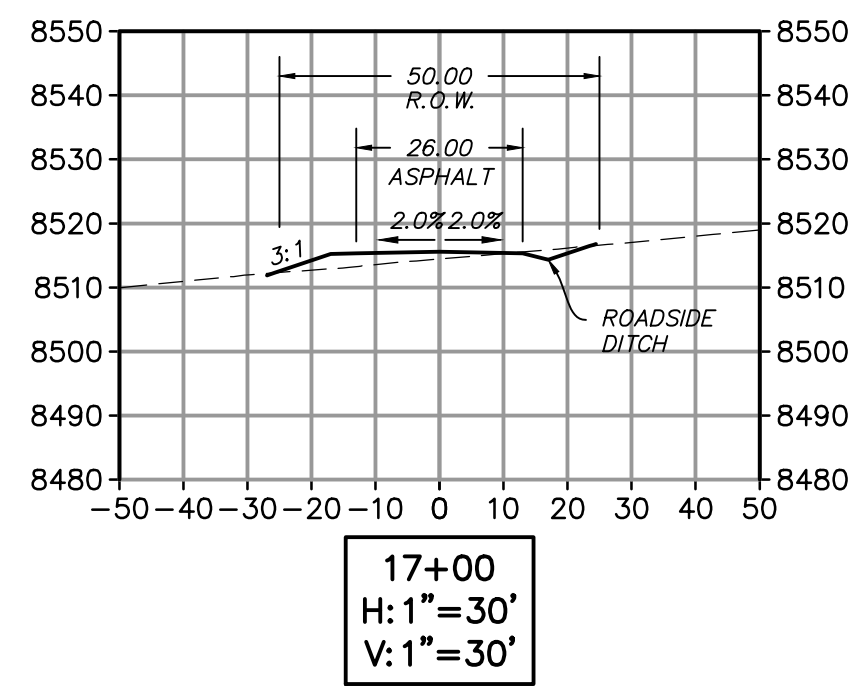
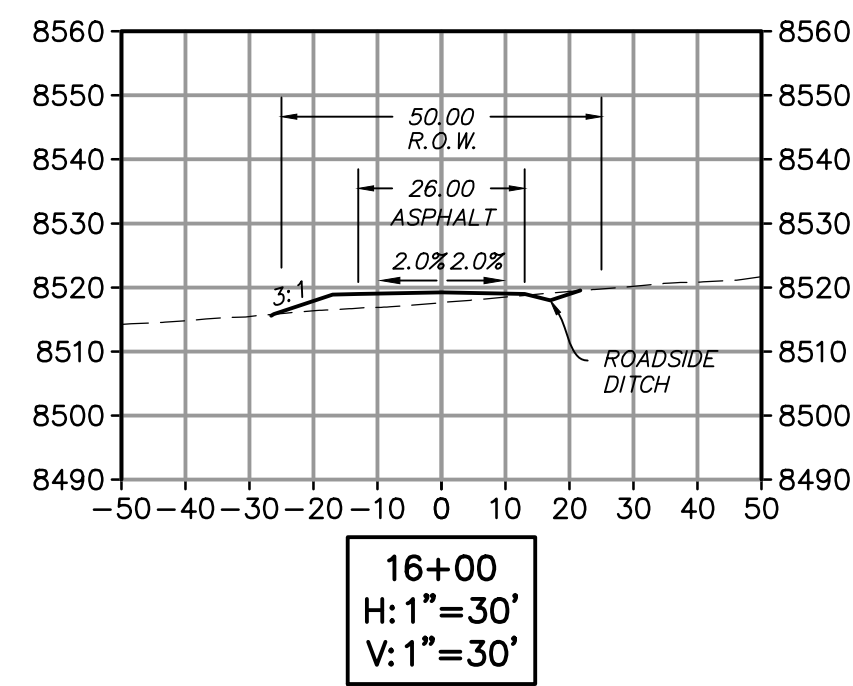
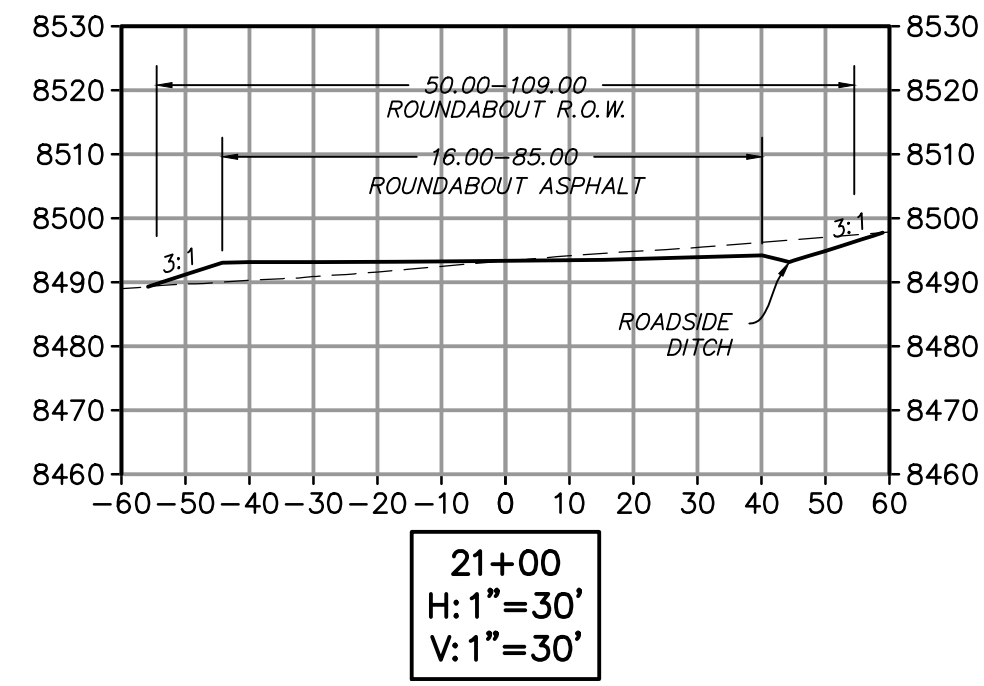


NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
ROADWAY SECTIONS  
DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18-200.22

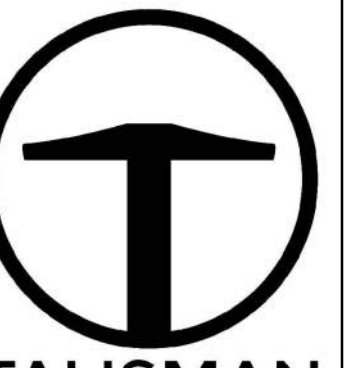


VERTICAL: 1" = 30'  
HORIZONTAL: 1" = 30'  
SCALE  
SHEET NUMBER  
**206**  
13 OF 61



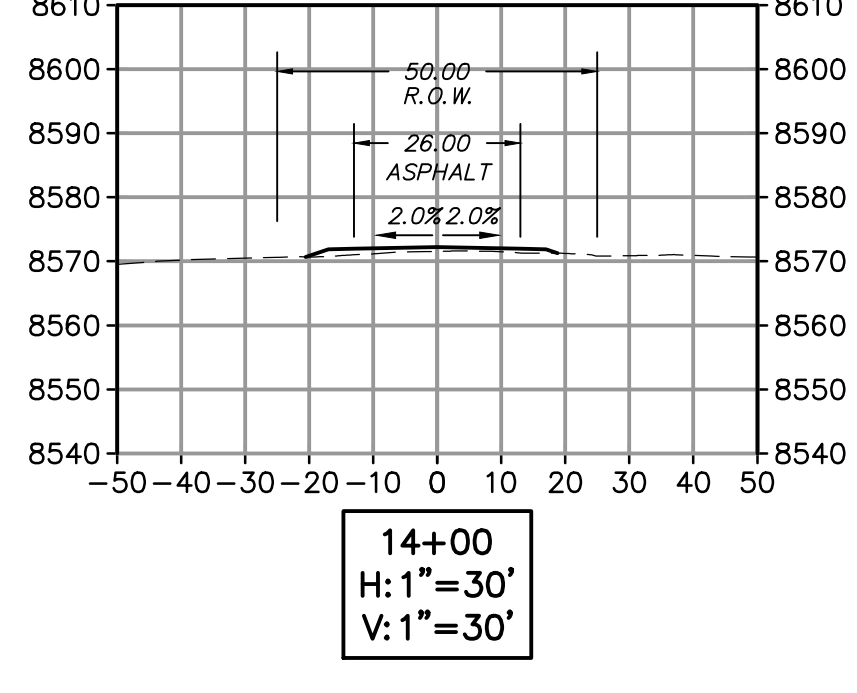
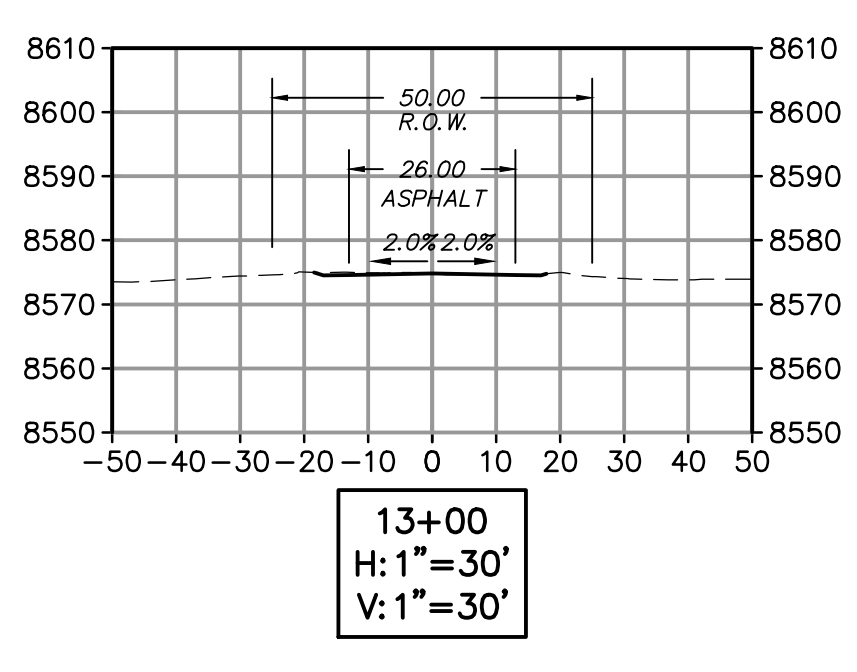
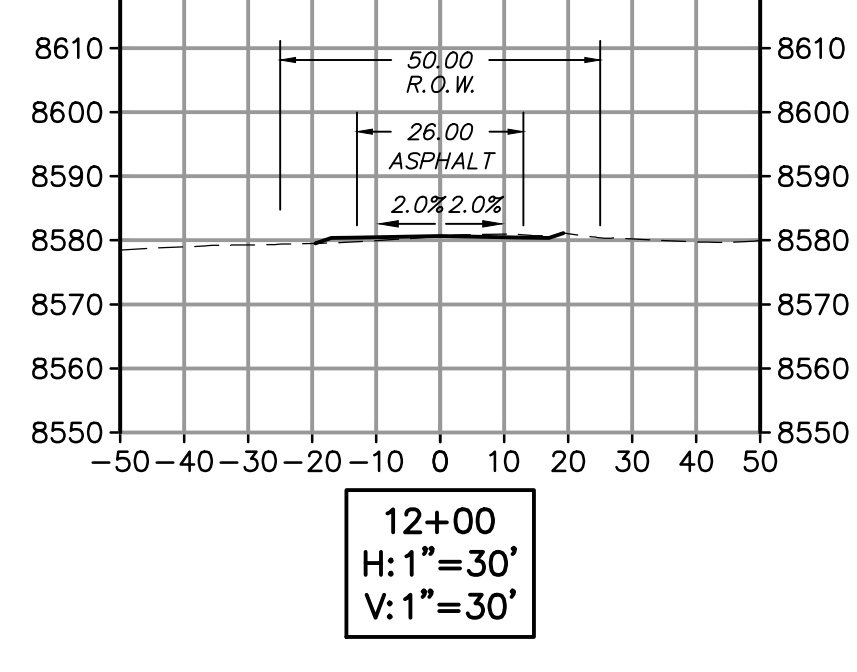
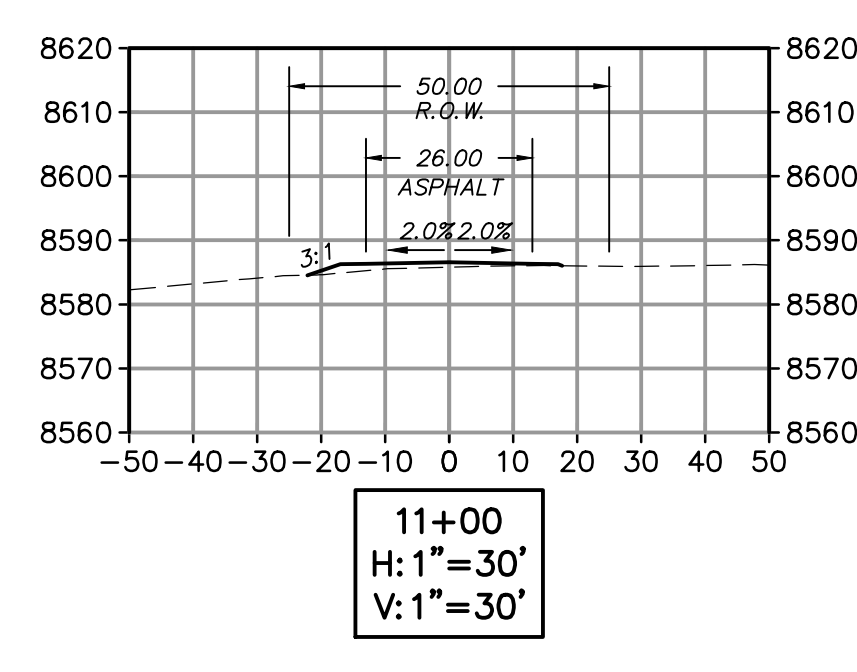
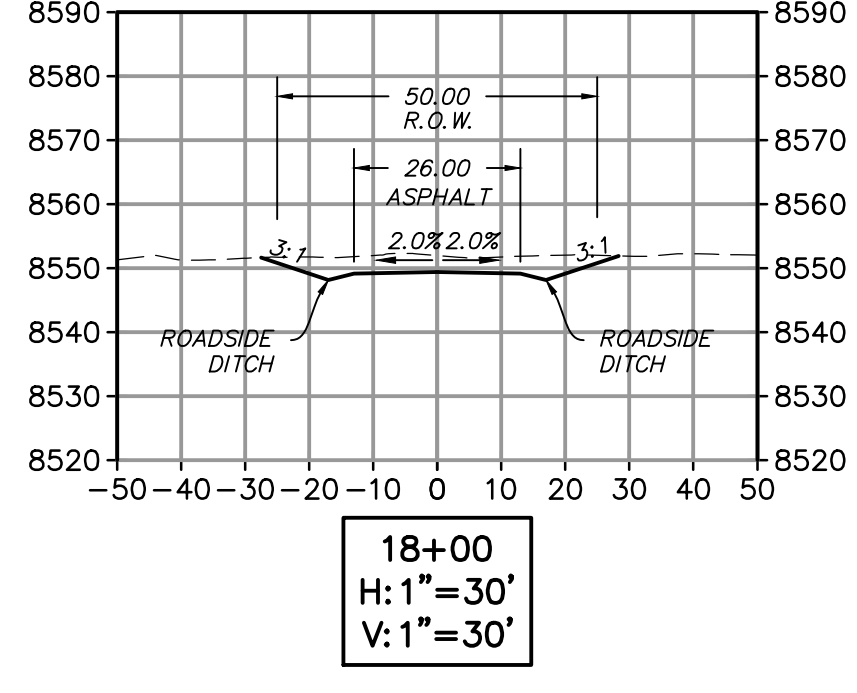
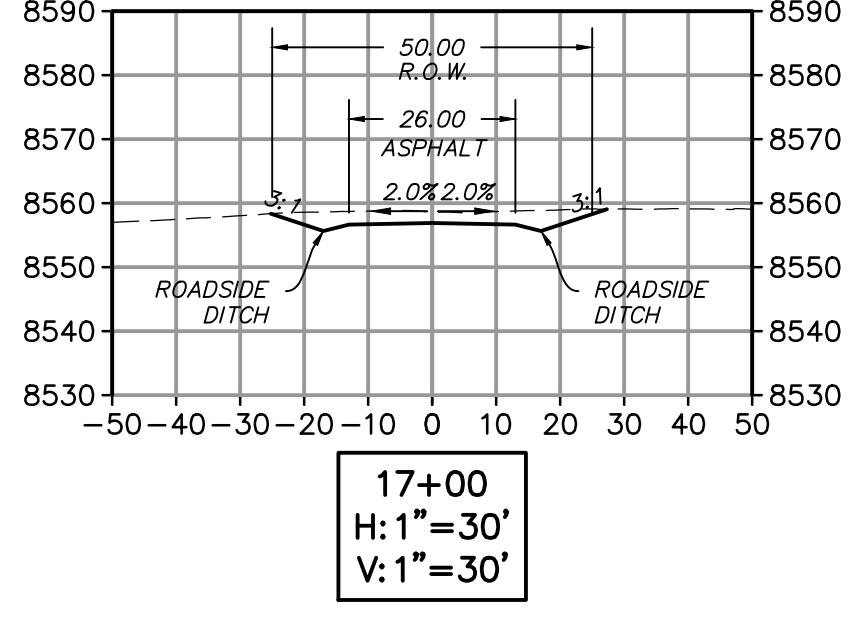
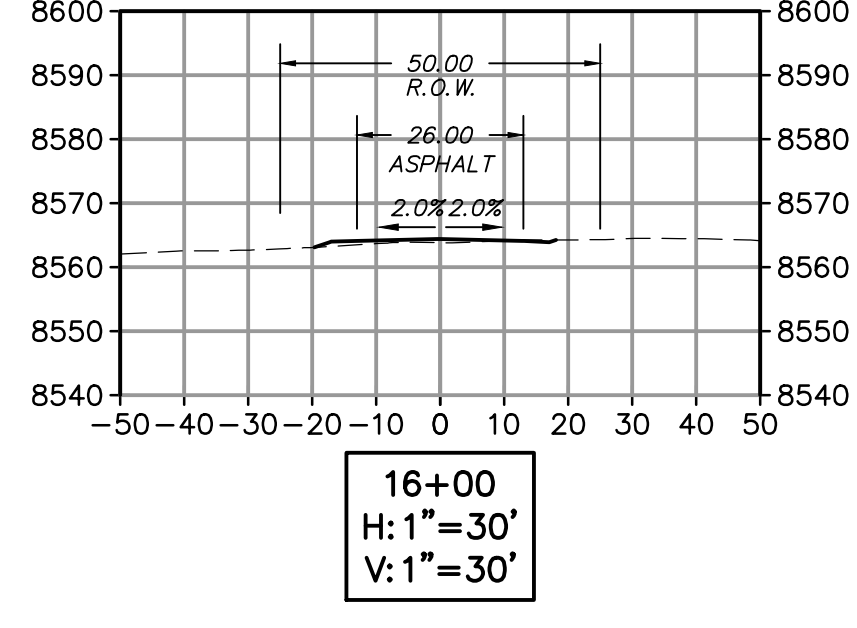
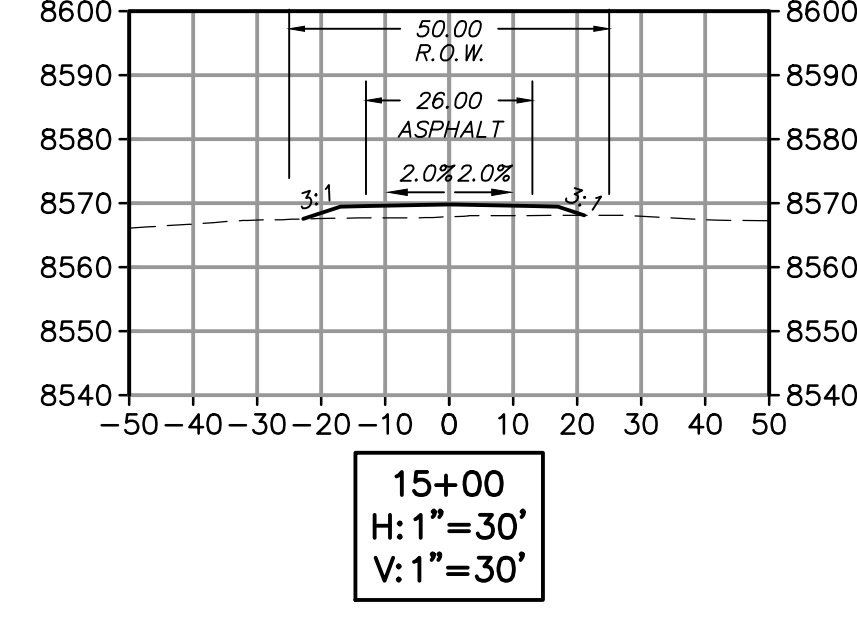
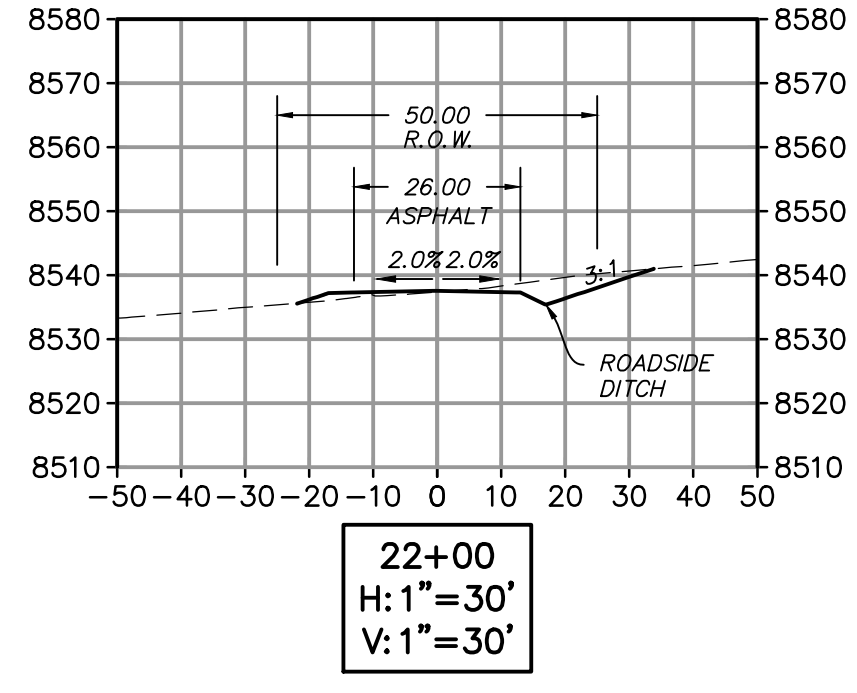
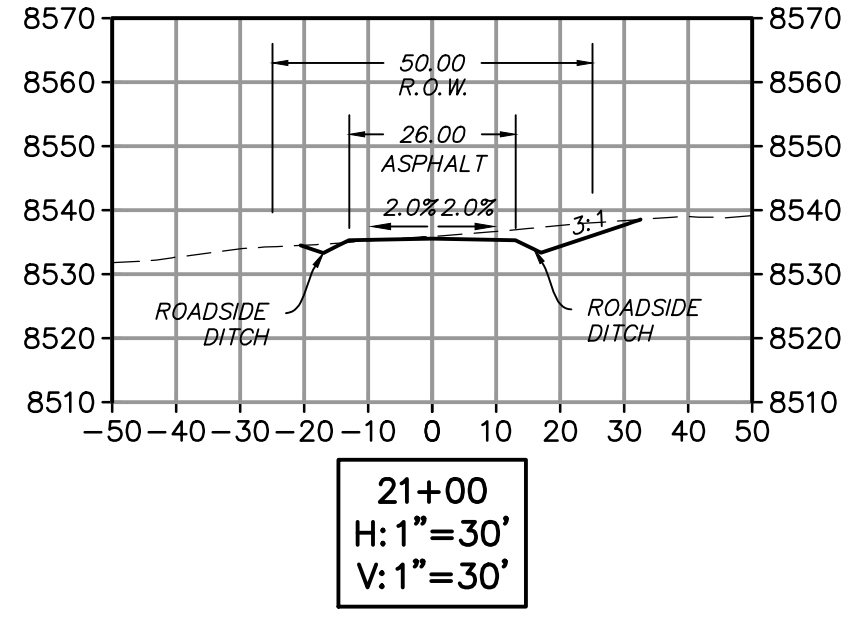
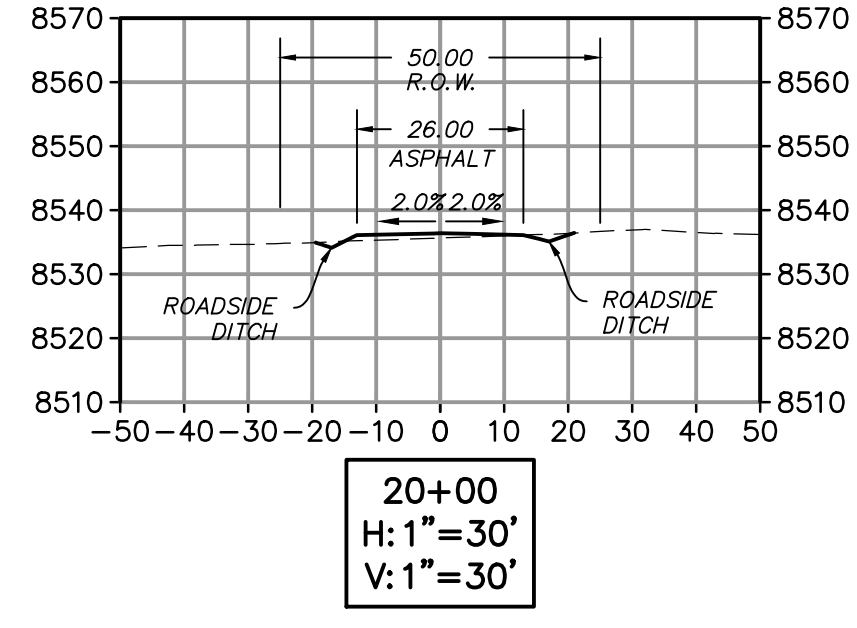
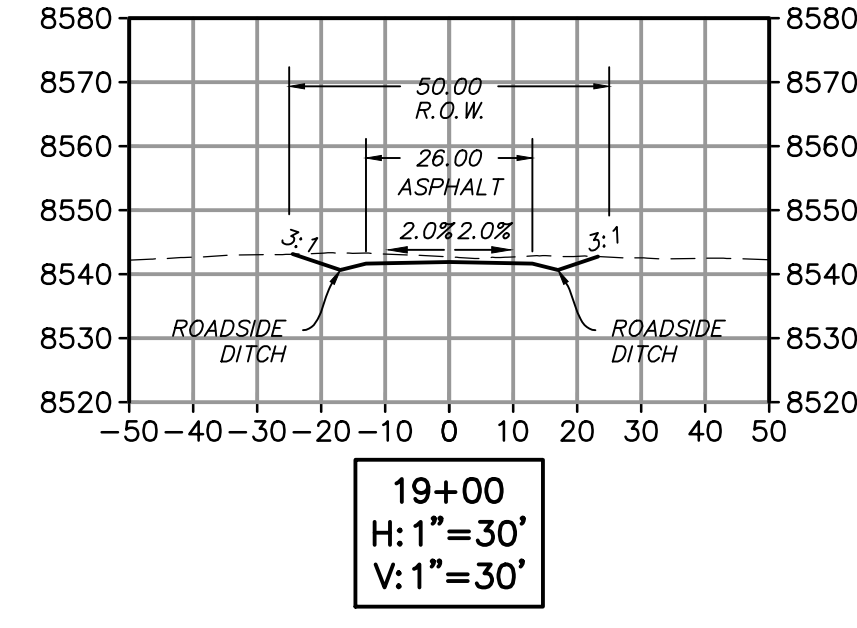
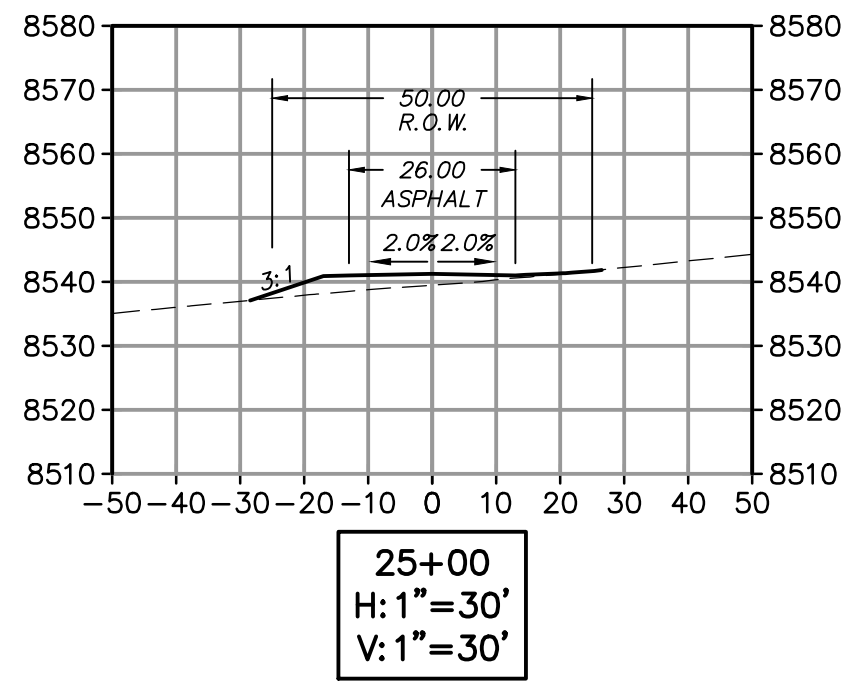
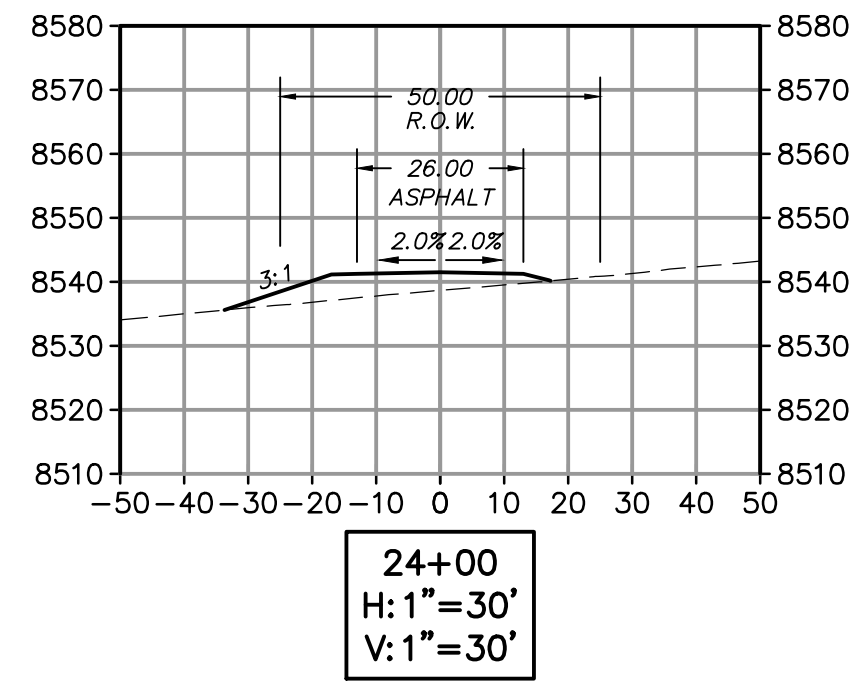
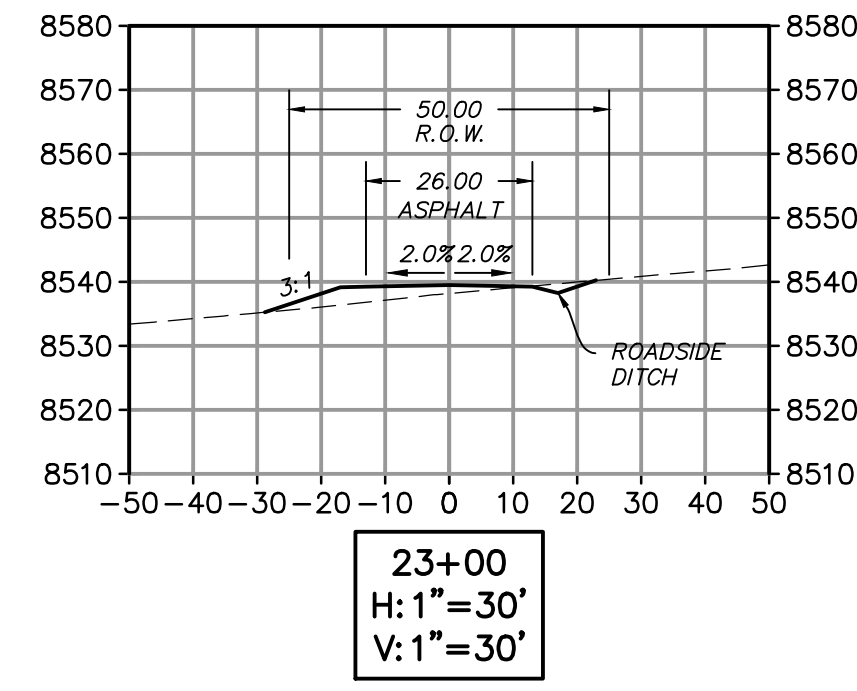
MEADOW DRIVE ROADWAY SECTIONS





TALISMAN CIVIL CONSULTANTS  
6217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	BY	DATE	REVISIONS

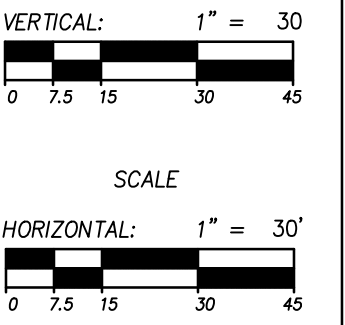
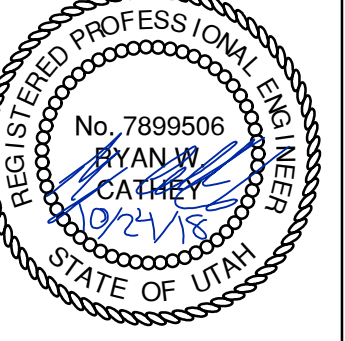


WHITE PINE DRIVE ROADWAY SECTIONS

# BOBCAT RIDGE AT S.P.M. ROADWAY SECTIONS

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200.22



DATE: 10/24/2018 12:47 PM

PATH: N:\SIBD793\Cadd\18-200-22-gather estate lots - bobcat ridge\IP\_400\_OVERALL UTILITY PLAN.dwg



PHASE 1D  
AMENDMENT 1  
DEVELOPMENT  
PARCEL D6

PHASE 1D  
AMENDMENT 2  
DEVELOPMENT  
PARCEL D1

EXISTING WETLANDS

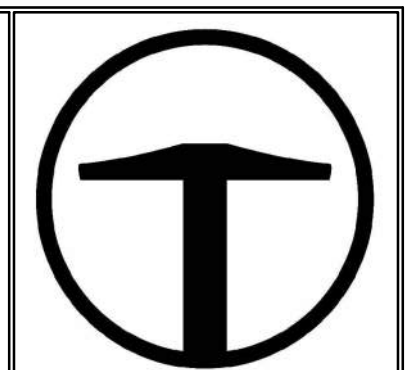
EXISTING WETLANDS

PHASE 1C  
AMENDMENT 5  
PARCEL 5 (OPEN SPACE)

CONTRACTOR TO  
ENSURE 6' MIN  
WATER LINE BURY  
DEPTH

CONTRACTOR TO  
ENSURE 7' MIN  
PRESSURE SEWER  
LINE BURY DEPTH

**NOTE:**  
 1. SEE 500 SERIES FOR DETAILED  
 UTILITY DESIGN INFORMATION UNLESS  
 IDENTIFIED ON THIS SHEET.  
 2. SEE 800 SERIES SHEETS FOR  
 PRELIMINARY DRY UTILITY DESIGNS.



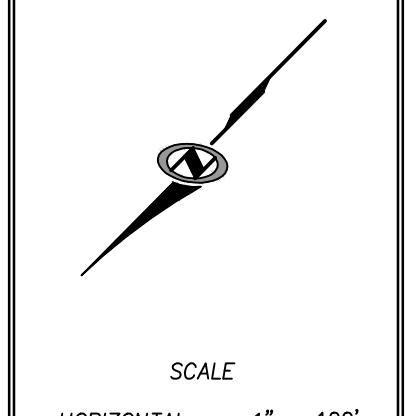
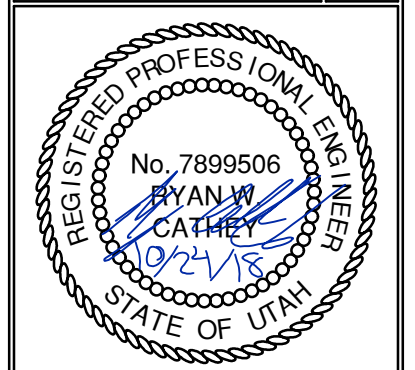
**TALISMAN**  
 CIVIL CONSULTANTS  
 6217 SOUTH STATE STREET  
 SUITE 200  
 MURRAY, UT 84107  
 801.743.1300

NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 OVERALL UTILITY PLAN

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22

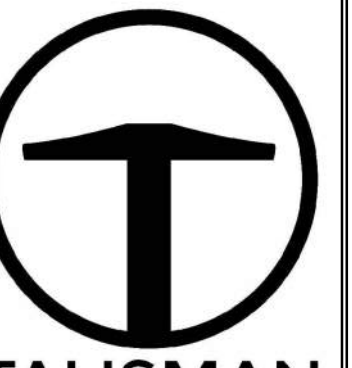


SHEET NUMBER  
**400**  
 15 OF 61



DATE: 10/24/2018 12:55 PM

PATH: N:\SLID793\Cond\18-200-22-getter estate lots - bobcat ridge\UP\500 PLAN AND PROFILE KEY MAP.dwg



**TALISMAN**  
CIVIL CONSULTANTS  
6217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1900

NO.	DATE	BY	REVISIONS

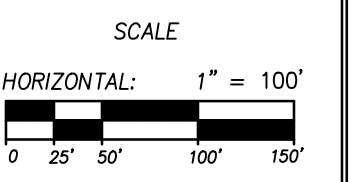
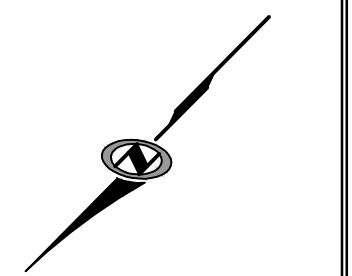
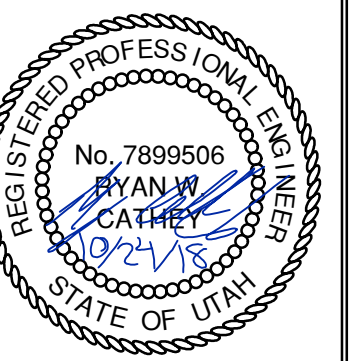
TCC JOB NUMBER: 18-200-22

# BOBCAT RIDGE AT S.P.M.

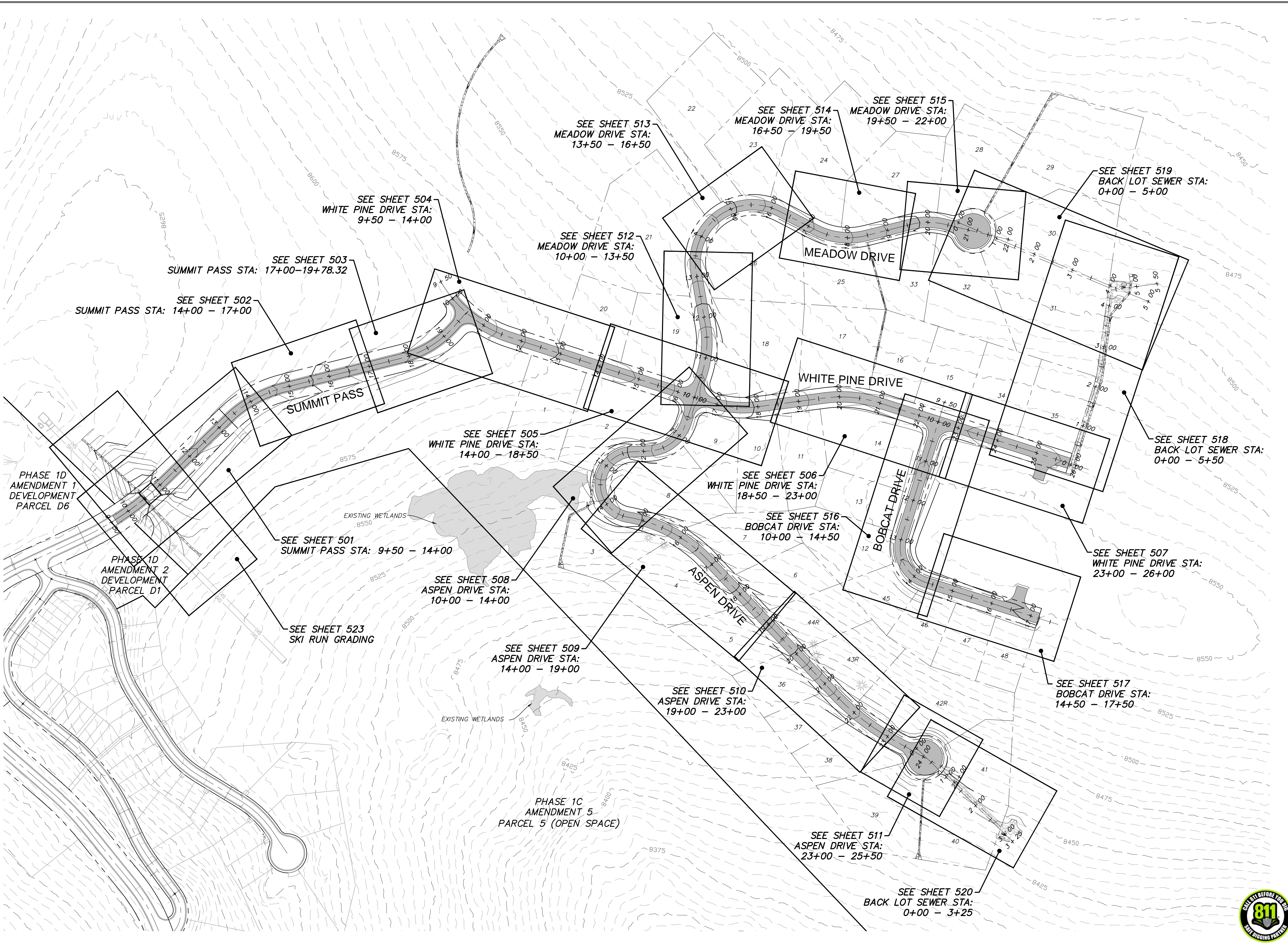
## PLAN AND PROFILE KEY MAP

DATE SUBMITTED: 10.24.2018

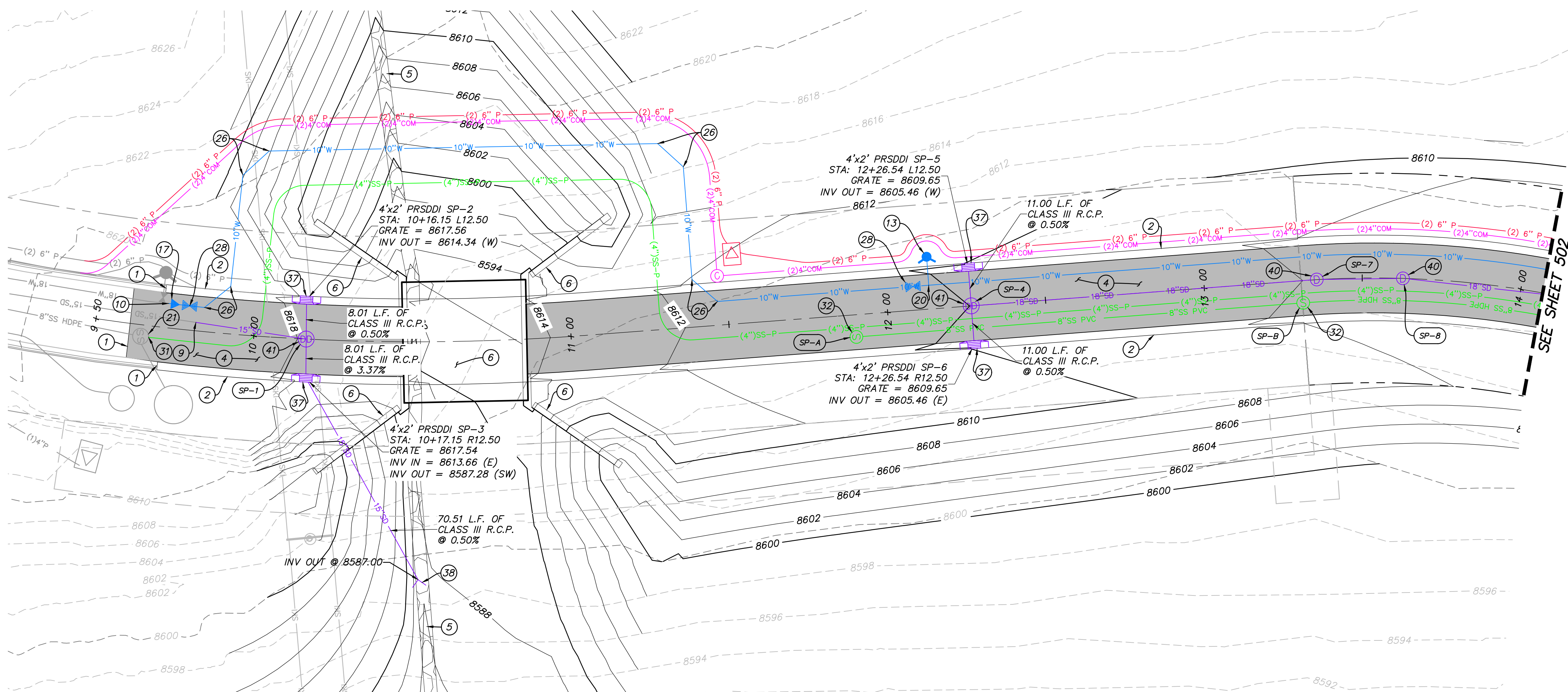
DATE SUBMITTED: 10.24.2018



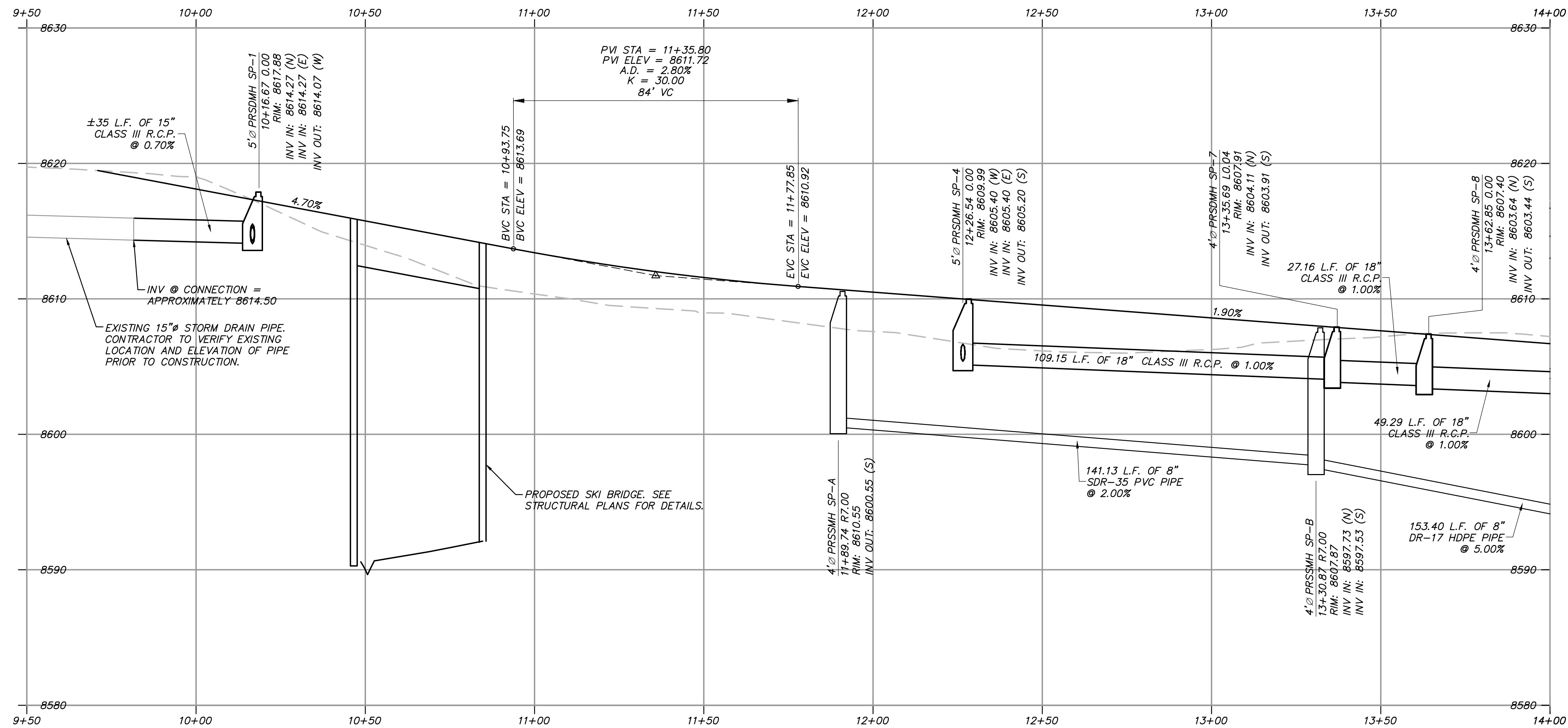
SHEET NUMBER  
**500**  
16 OF 61



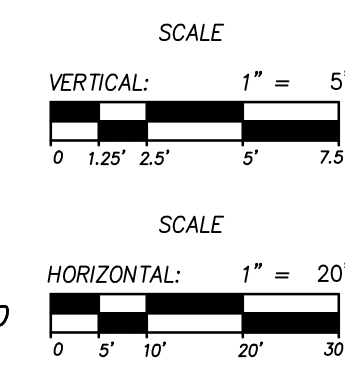




SUMMIT PASS STA: 9+50 - 14+00

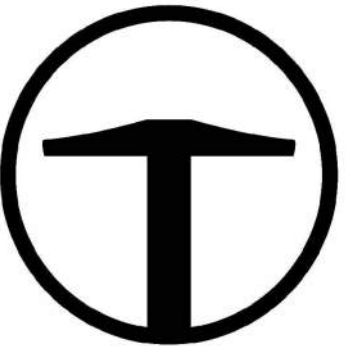


PROFILE VIEW



SITE SCOPE OF WORK:

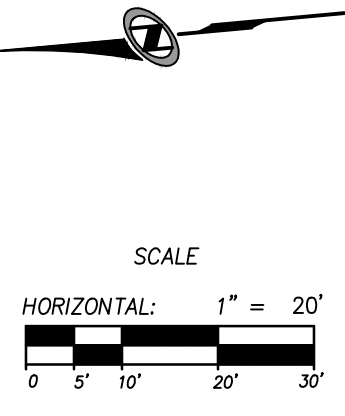
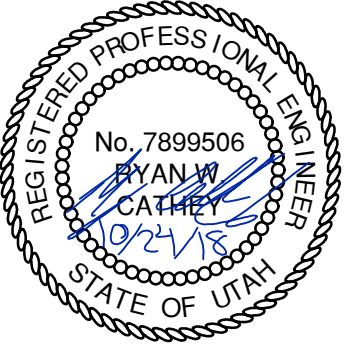
- NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.
- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- MATCH EXISTING.
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  - 2" WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
  - FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 5115.
  - 4" WASHOUT VALVE PER APWA PLAN NO. 571.
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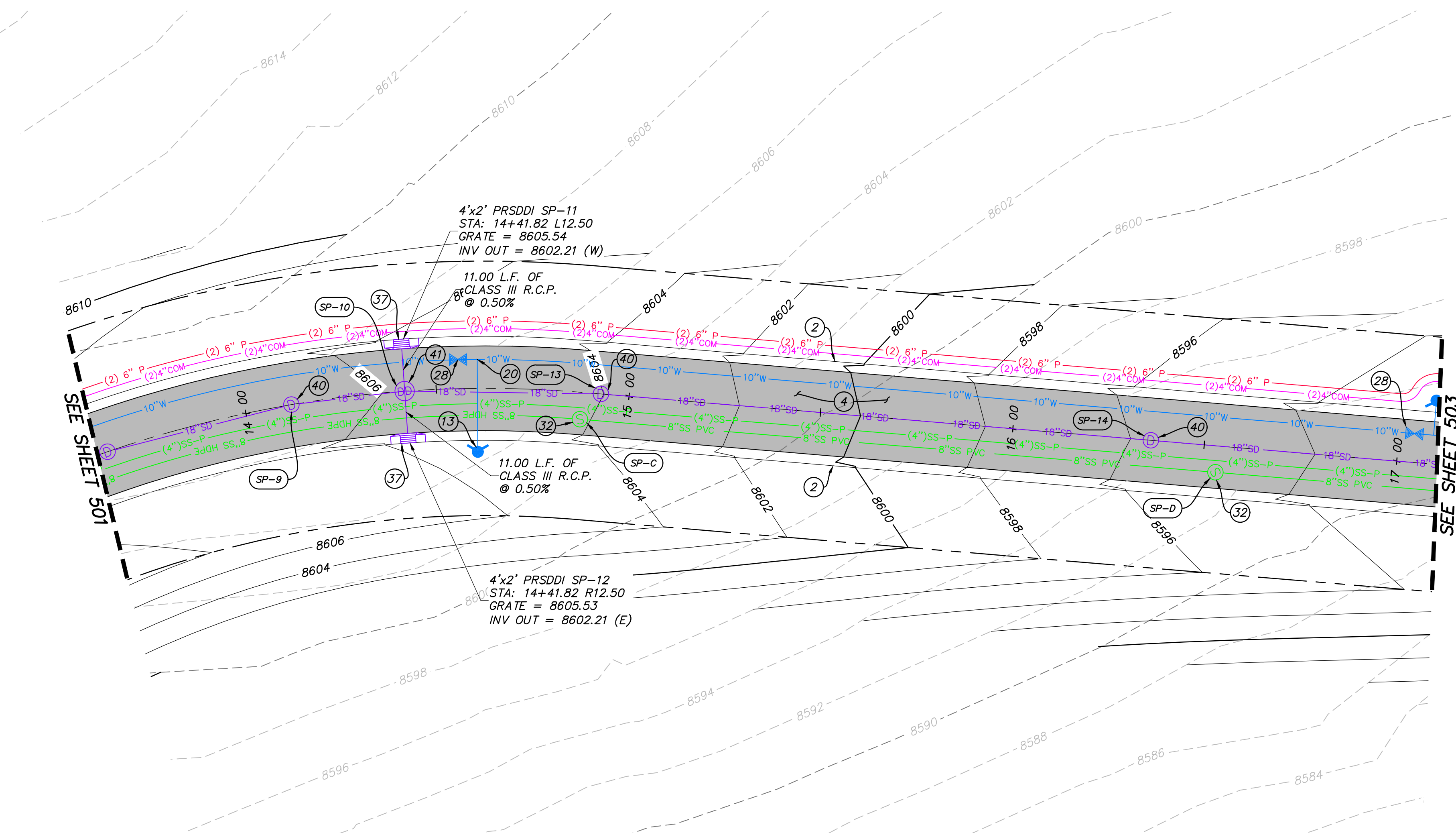


**TALISMAN**  
CIVIL CONSULTANTS  
5217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

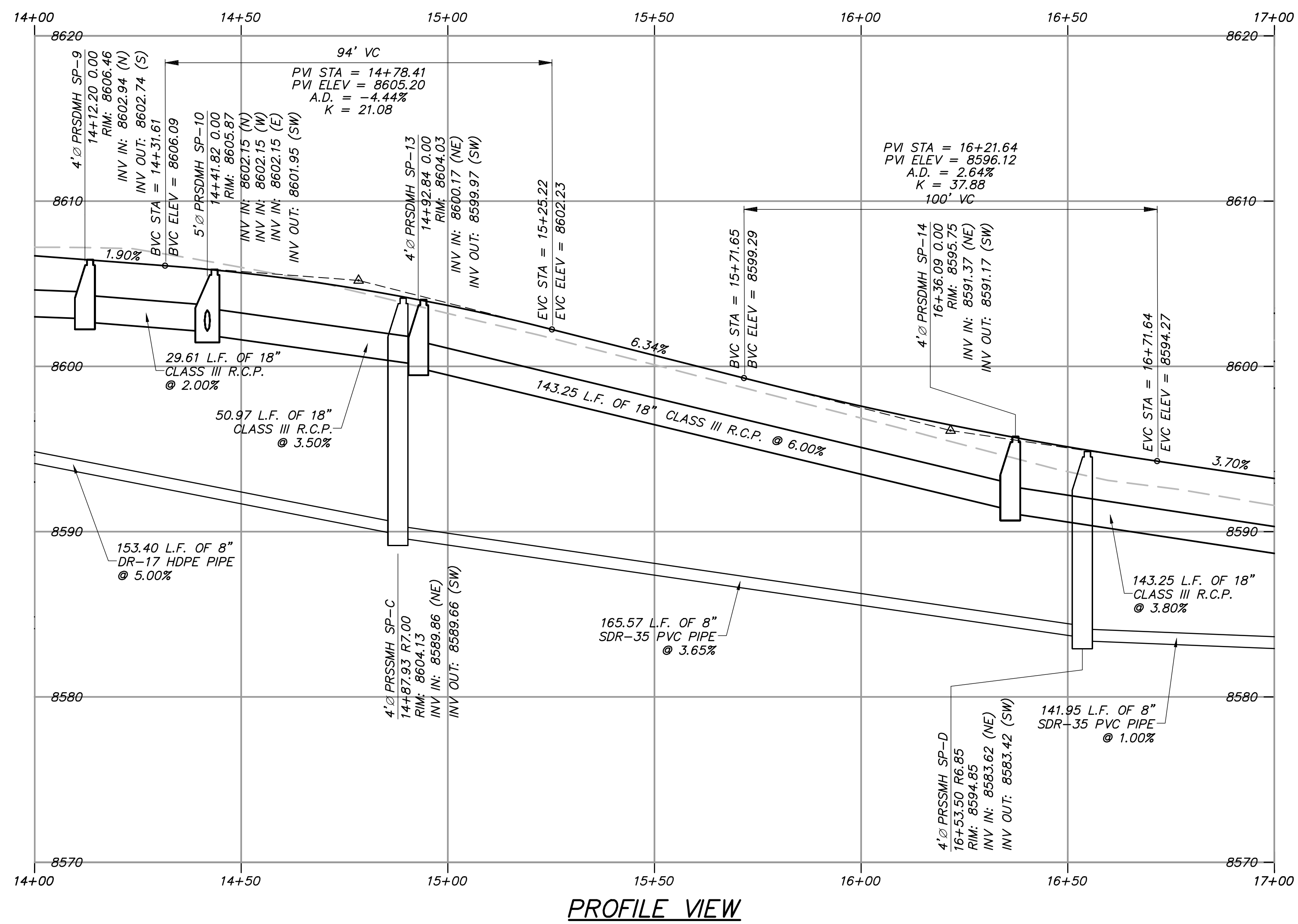
NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
SUMMIT PASS STA: 9+50 - 14+00

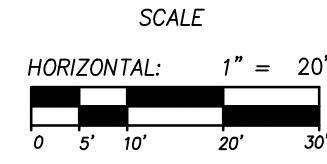
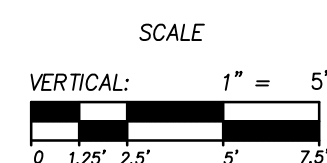




SUMMIT PASS STA: 14+00 - 17+00



PROFILE VIEW

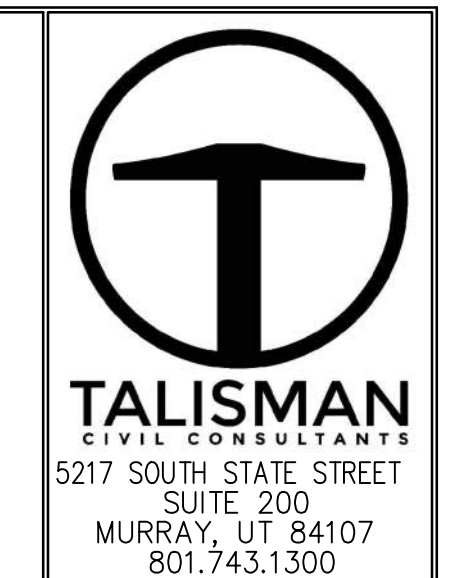


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NO.	BY	DATE	REVISION

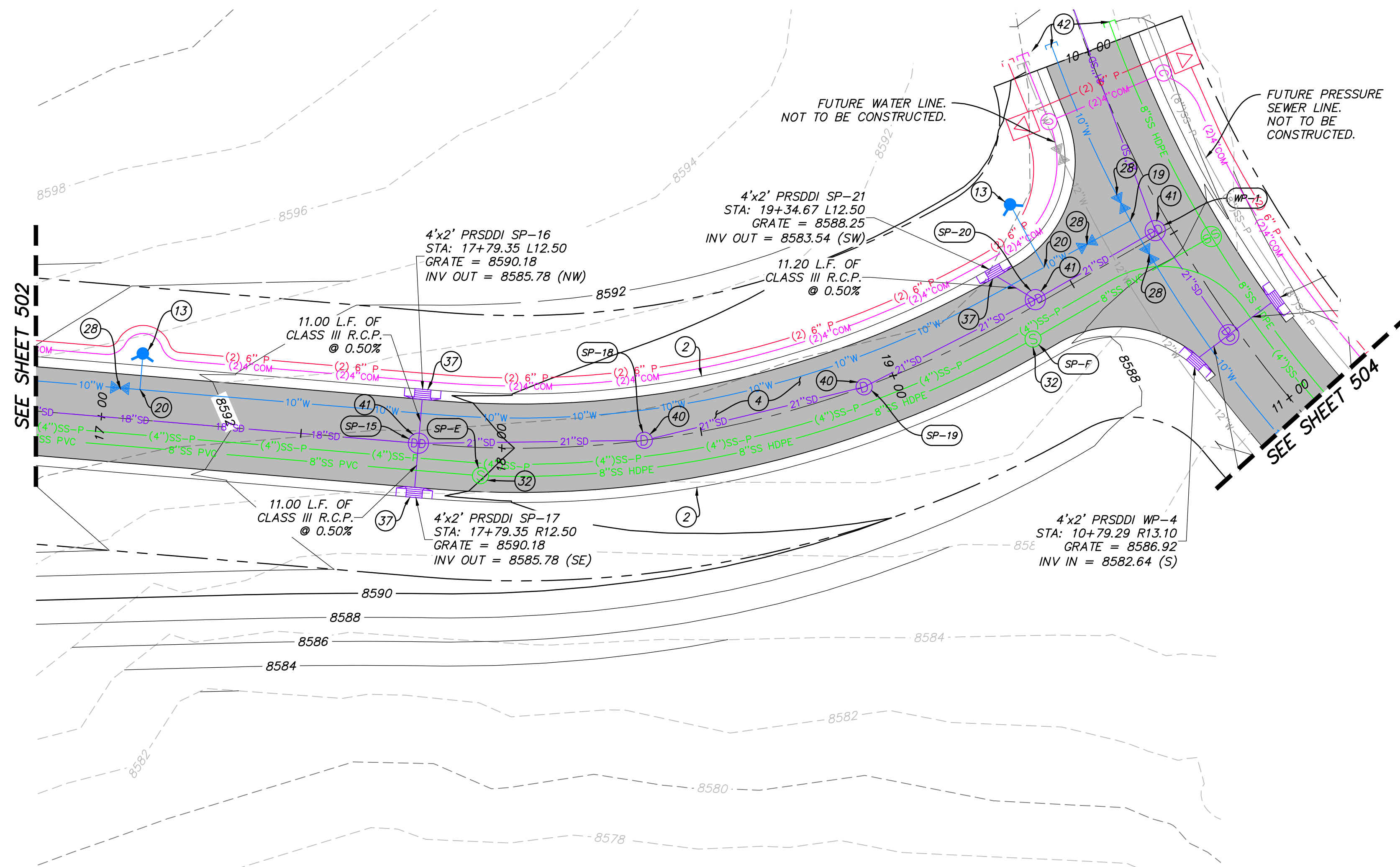
**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
SUMMIT PASS STA: 14+00 - 17+00

DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18.200.22

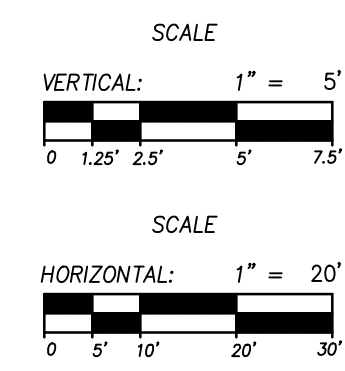
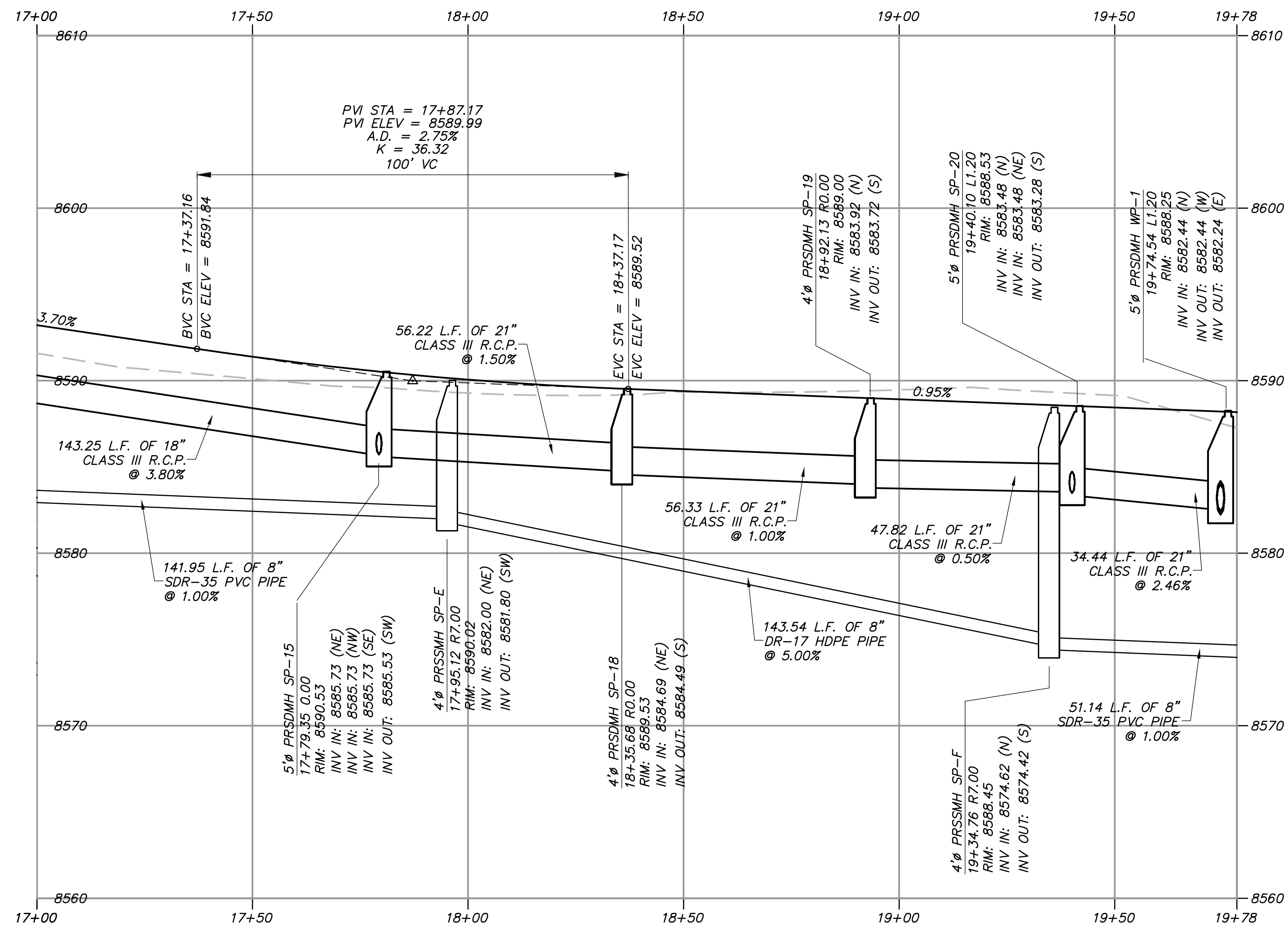
SHEET NUMBER  
**502**  
18 OF 61

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### SUMMIT PASS STA: 17+00 – 19+78.32



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 SUITE 200  
 MURRAY, UT 84107  
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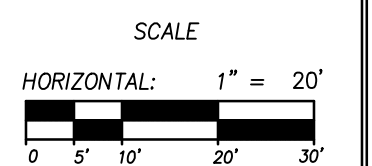
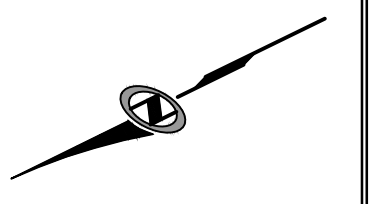
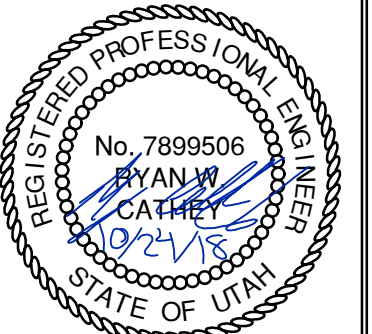
## BOBCAT RIDGE AT S.P.M.

### PLAN AND PROFILE

SUMMIT PASS STA: 17+00 - 19+78.32

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22

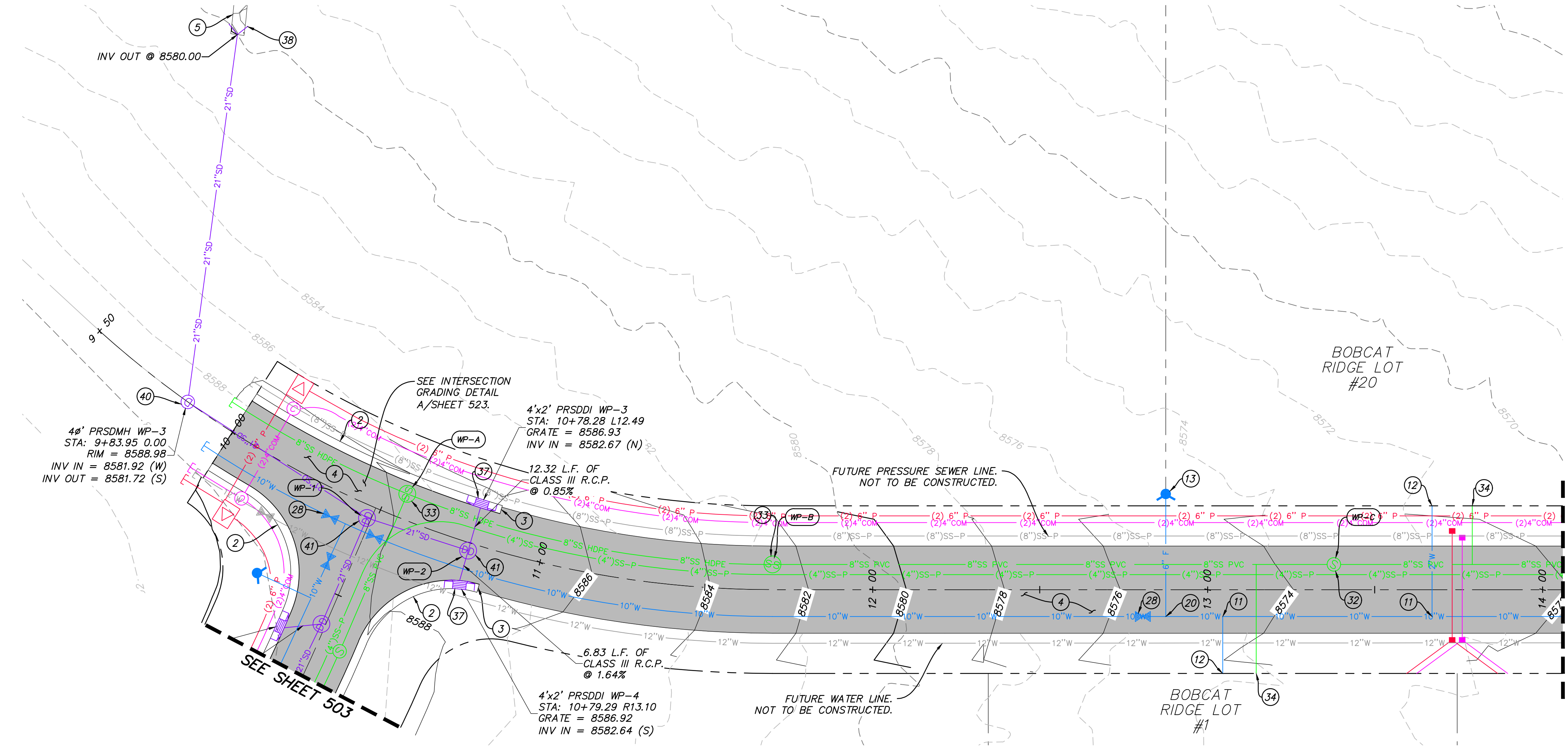


SHEET NUMBER

**503**

19 OF 61



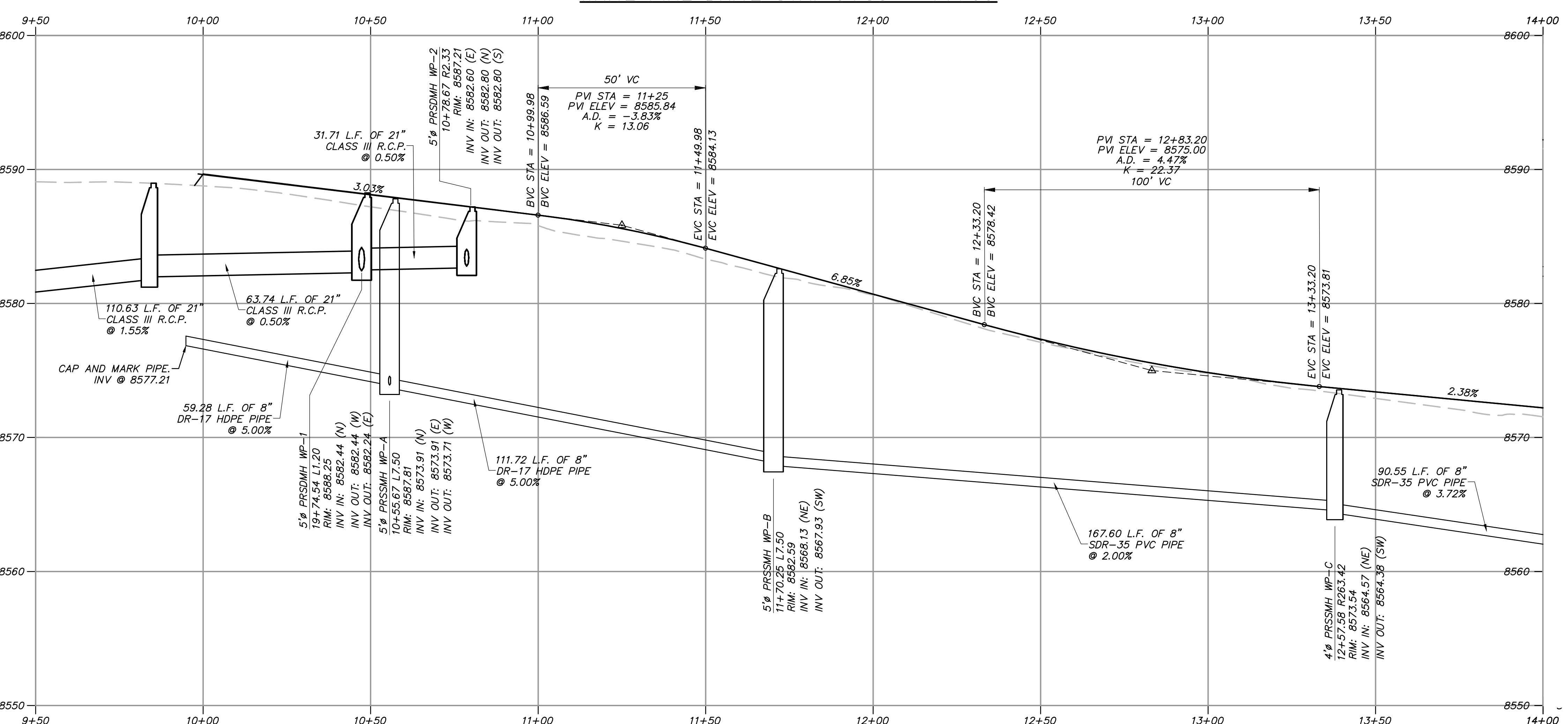


**SITE SCOPE OF WORK:**

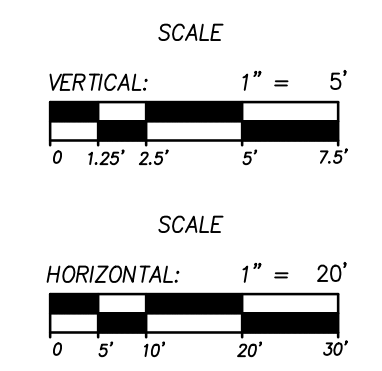
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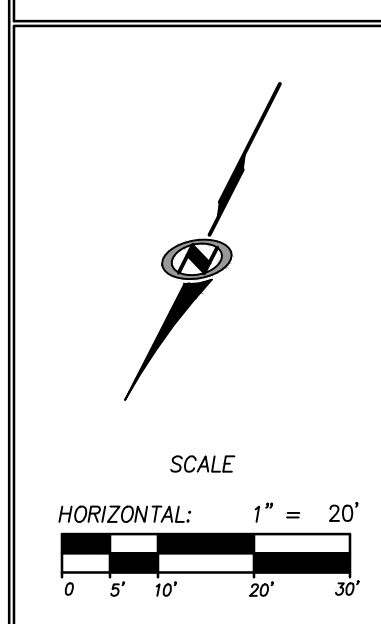
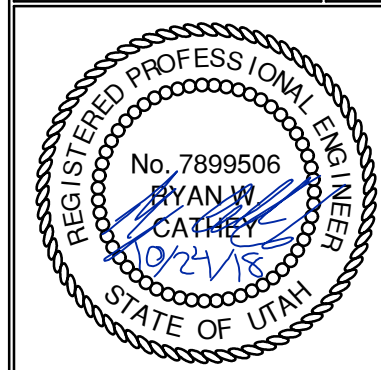
**PROFILE VIEW**

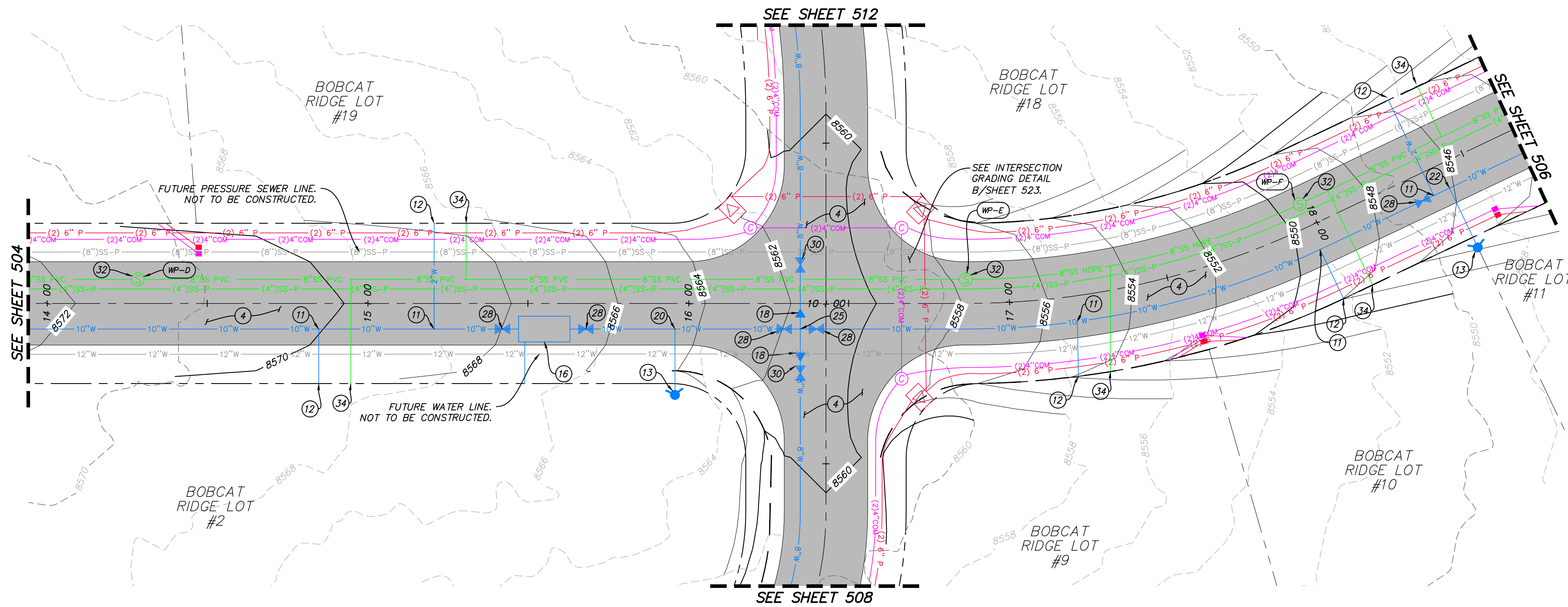


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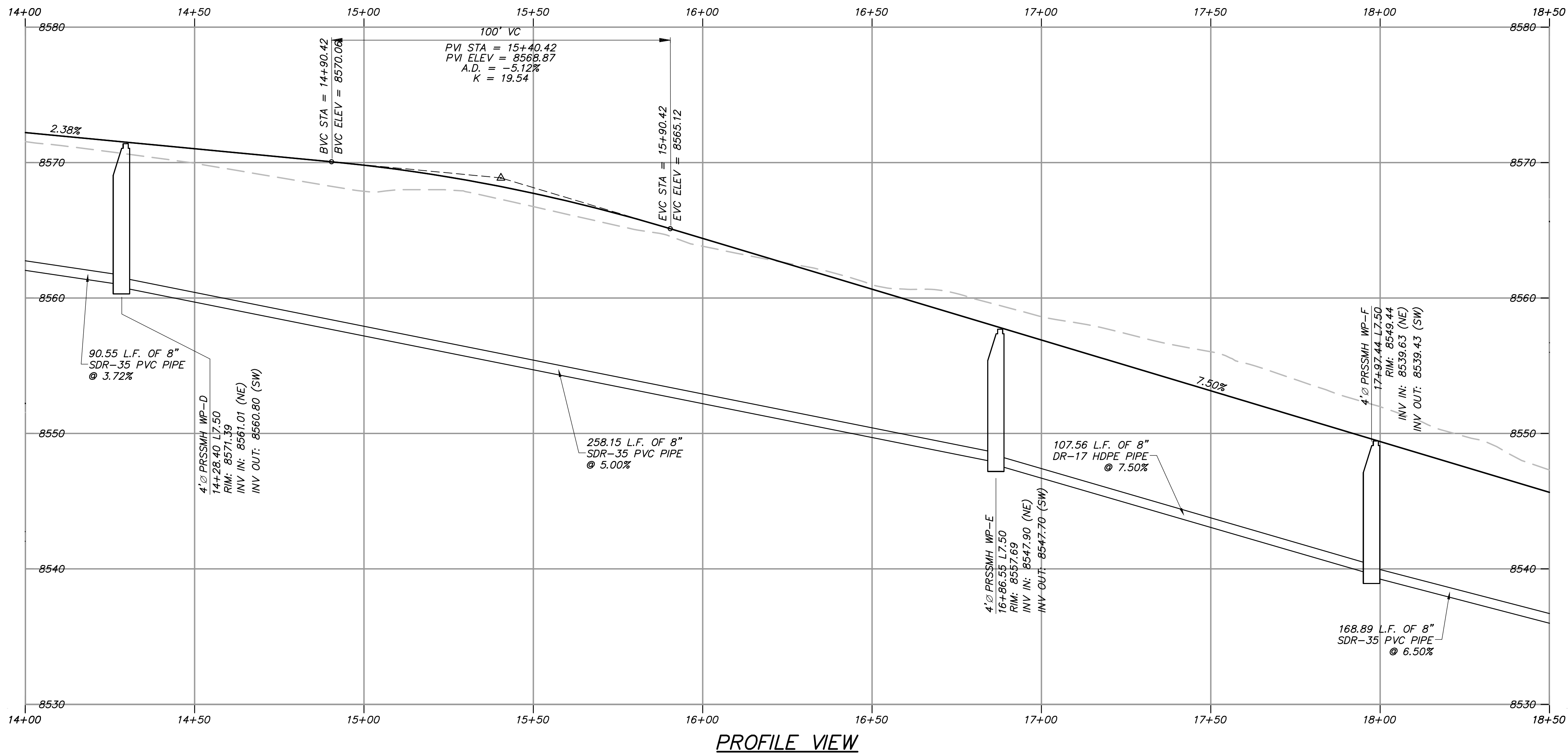
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**BOBCAT RIDGE AT S.P.M.**  
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 WHITE PINE DRIVE STA: 9+50 - 14+00  
 DATE SUBMITTED: 10.24.2018  
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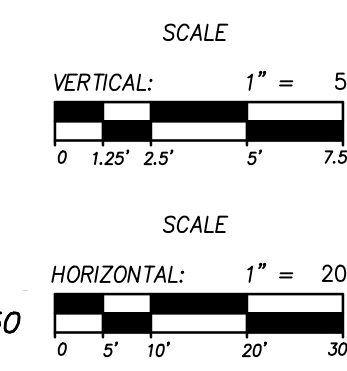




WHITE PINE DRIVE STA: 14+00 - 18+50



PROFILE VIEW

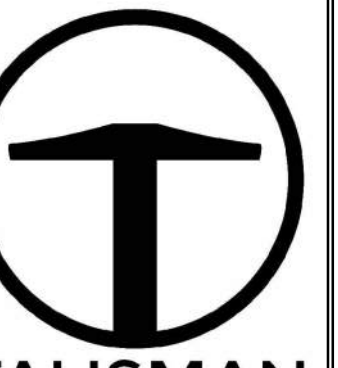


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- 42 CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
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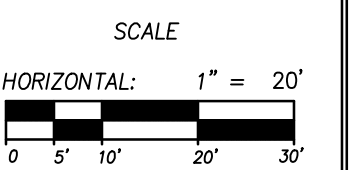
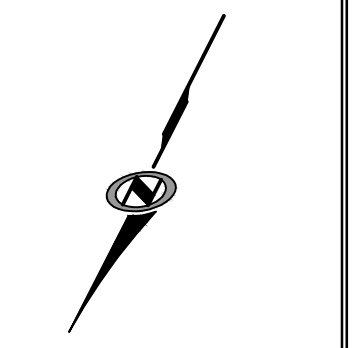
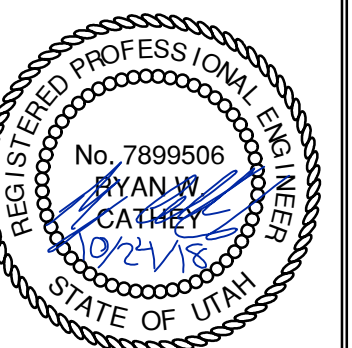
**TALISMAN**  
CIVIL CONSULTANTS  
5217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	DATE	BY	REVISIONS

DATE SUBMITTED: 10.24.2018  
DATE:    
BY:    
NO.:  

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
WHITE PINE DRIVE STA: 14+00 - 18+50

TCC JOB NUMBER: 18.200.22



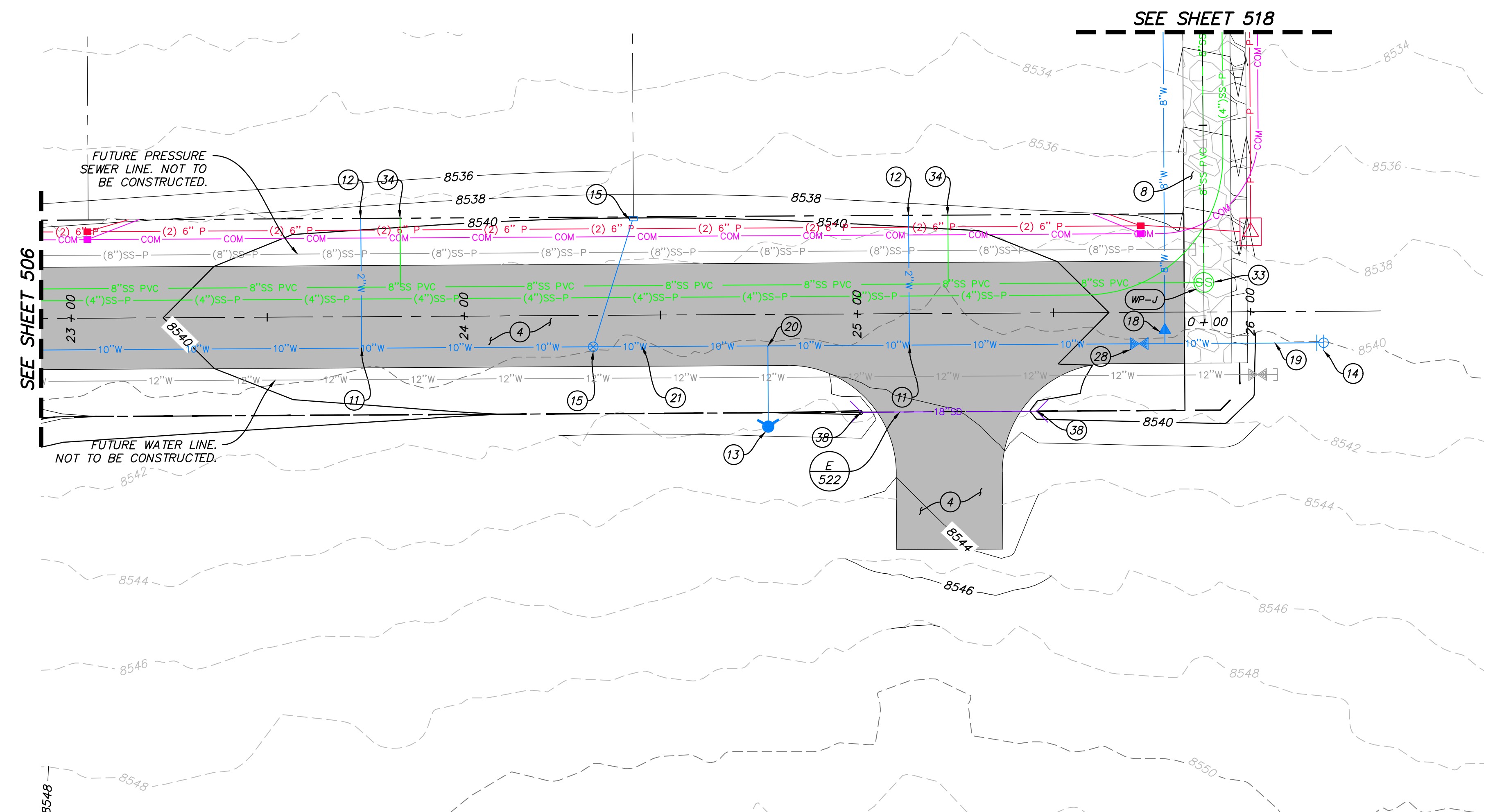
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**505**  
21 OF 61



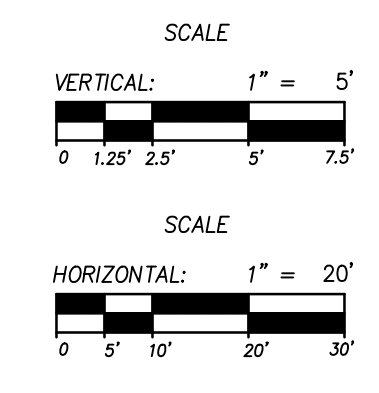
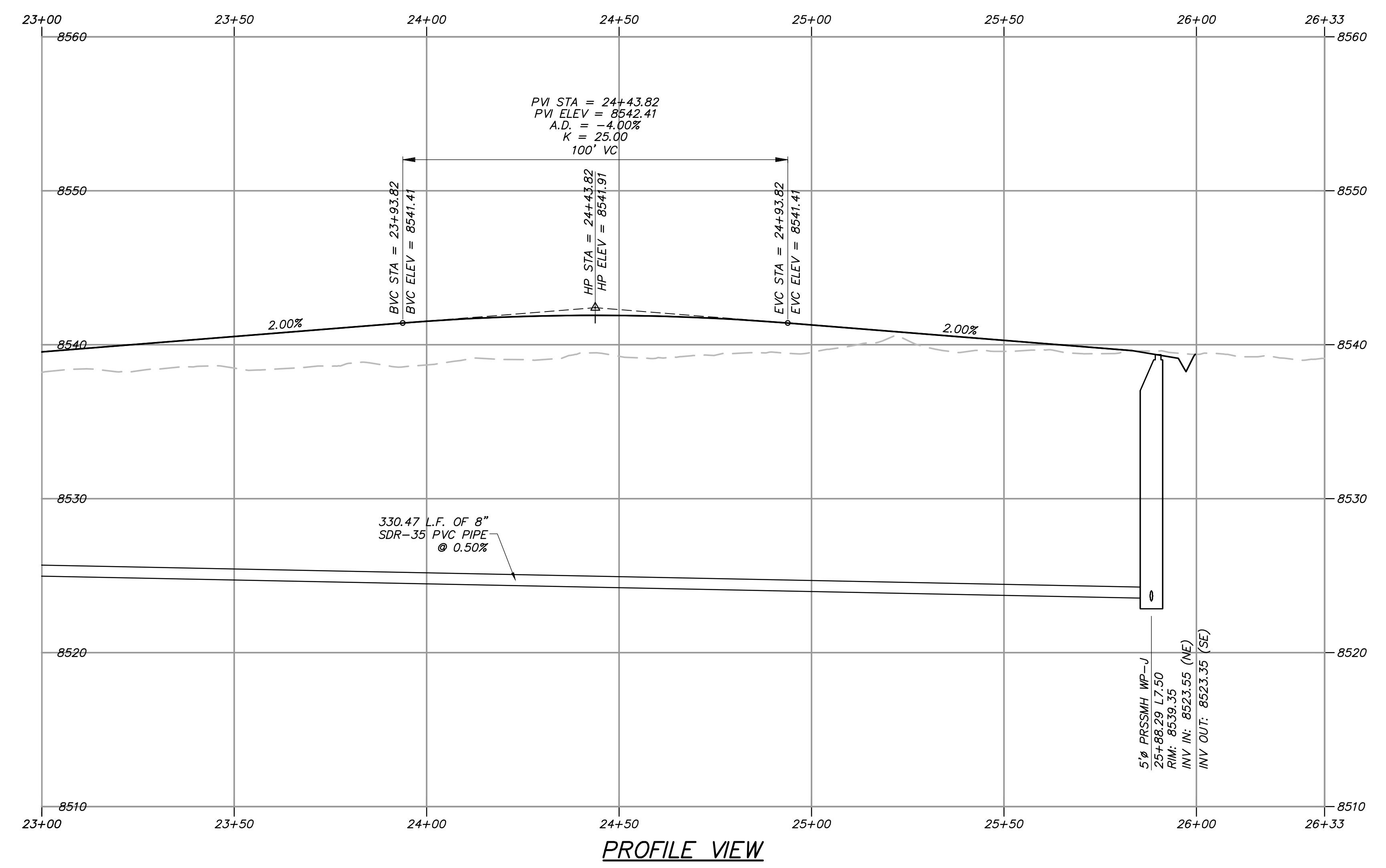


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**WHITE PINE DRIVE STA: 23+00 - 26+00**

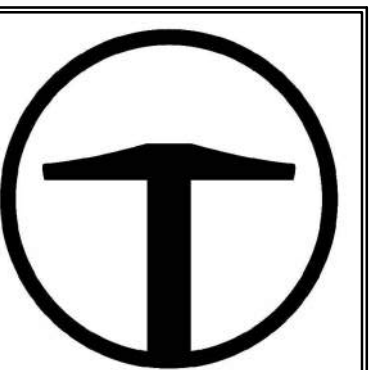


**SITE SCOPE OF WORK:**

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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:

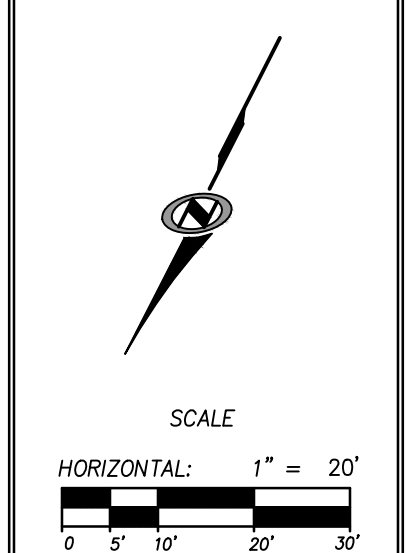
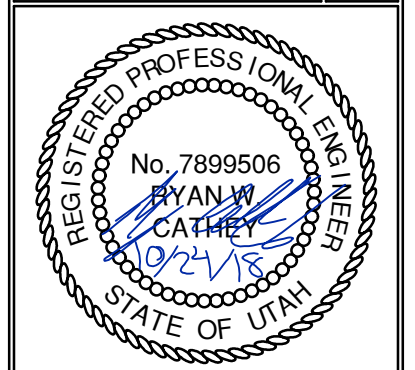
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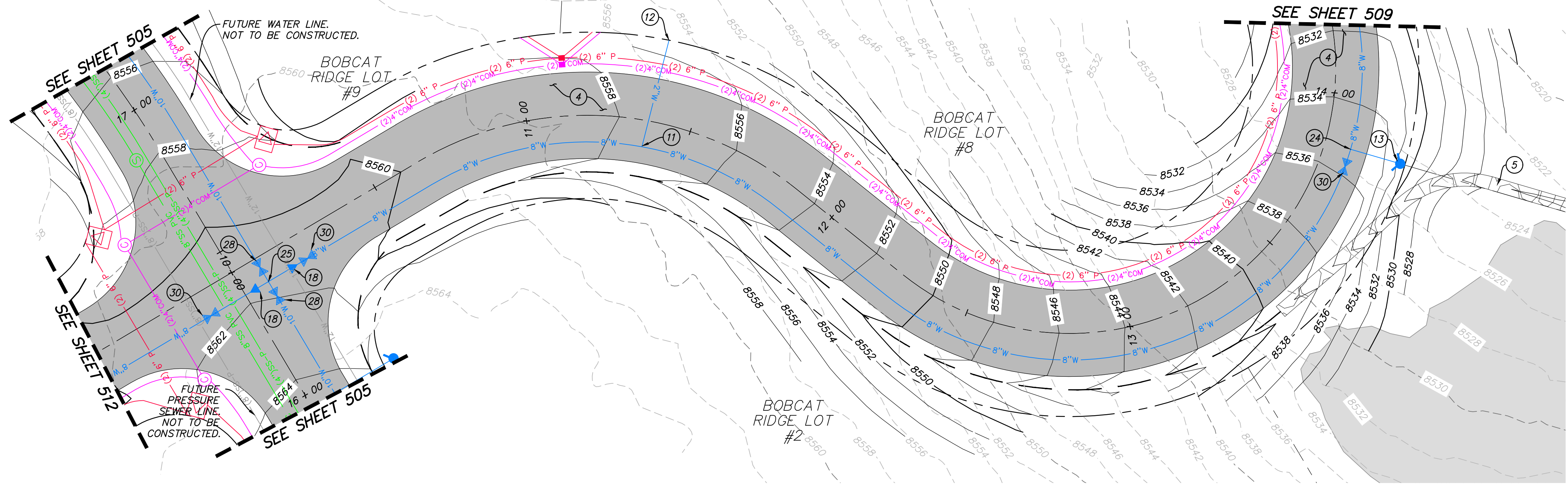
NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
WHITE PINE DRIVE STA: 23+00 - 26+00  
DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18.200.22

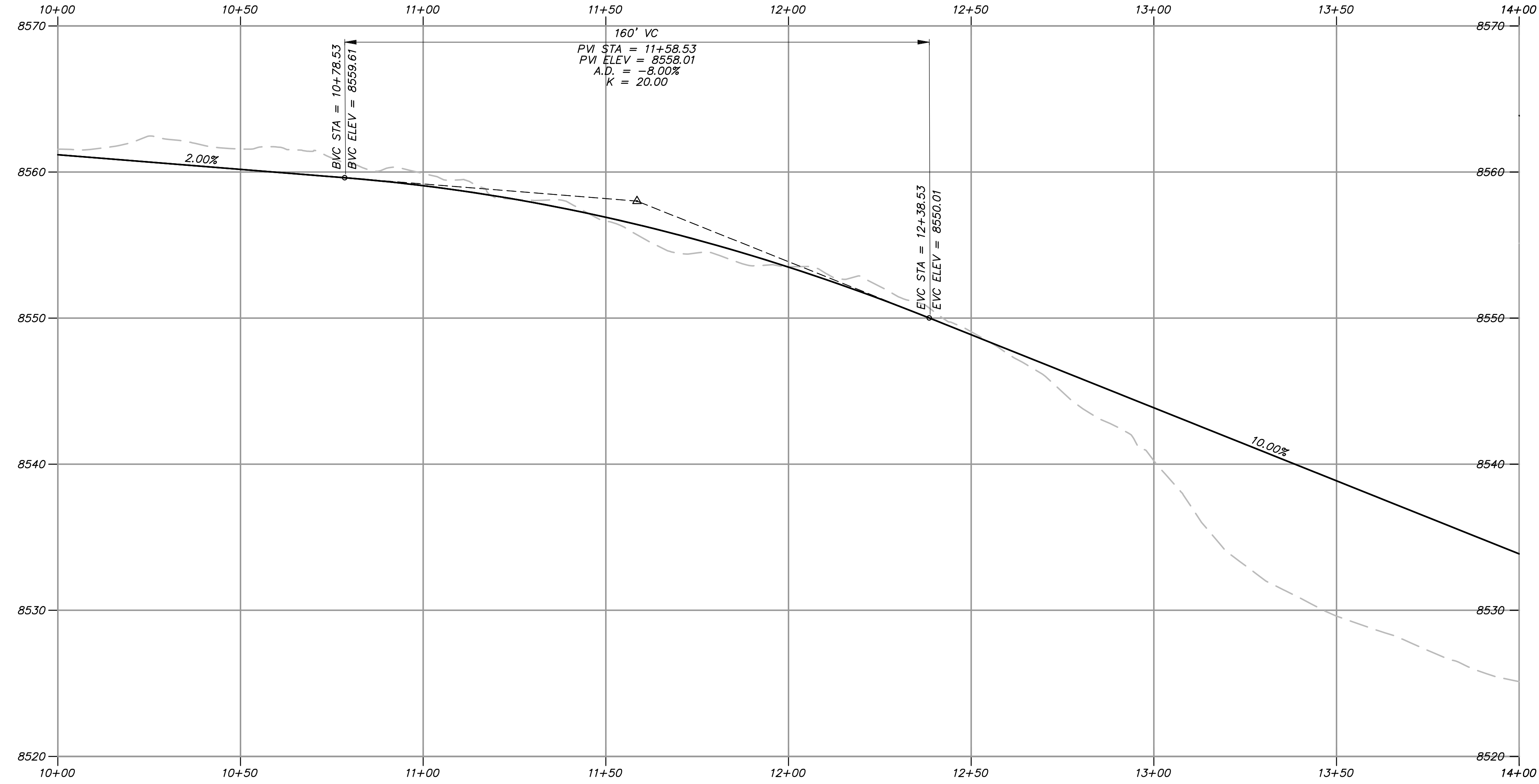


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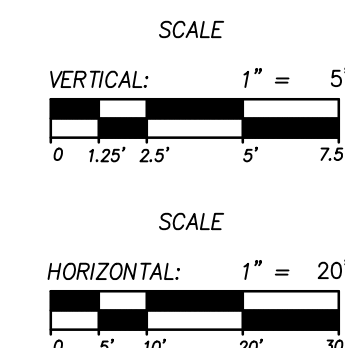
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ASPEN DRIVE STA: 10+00 - 14+00



PROFILE VIEW

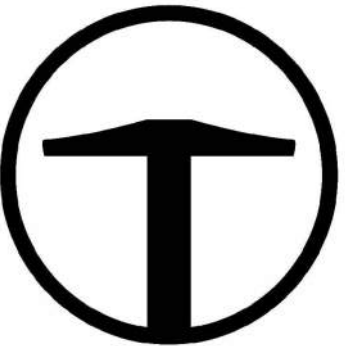


**SITE SCOPE OF WORK:**

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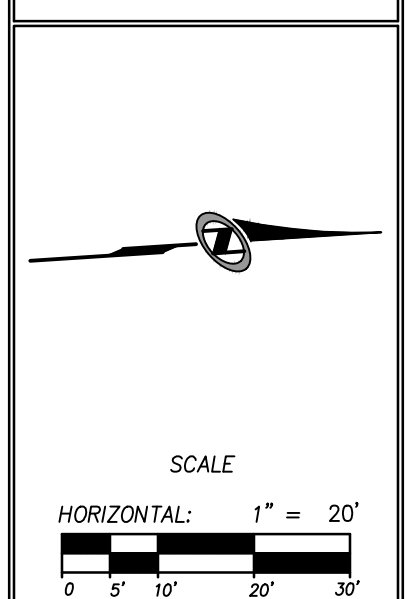
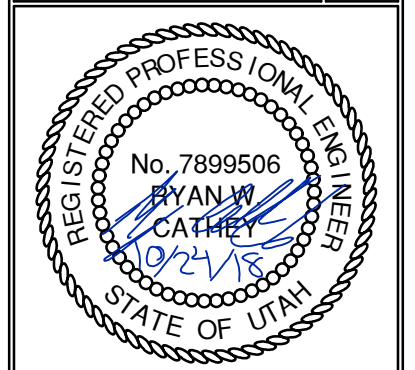
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SUITE 200  
MURRAY, UT 84107  
801.743.1900

NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 PLAN AND PROFILE  
 ASPEN DRIVE STA: 10+00 - 14+00  
 DATE SUBMITTED: 10.24.2018  
 TCC JOB NUMBER: 18.200.22



SHEET NUMBER  
**508**  
24 OF 61

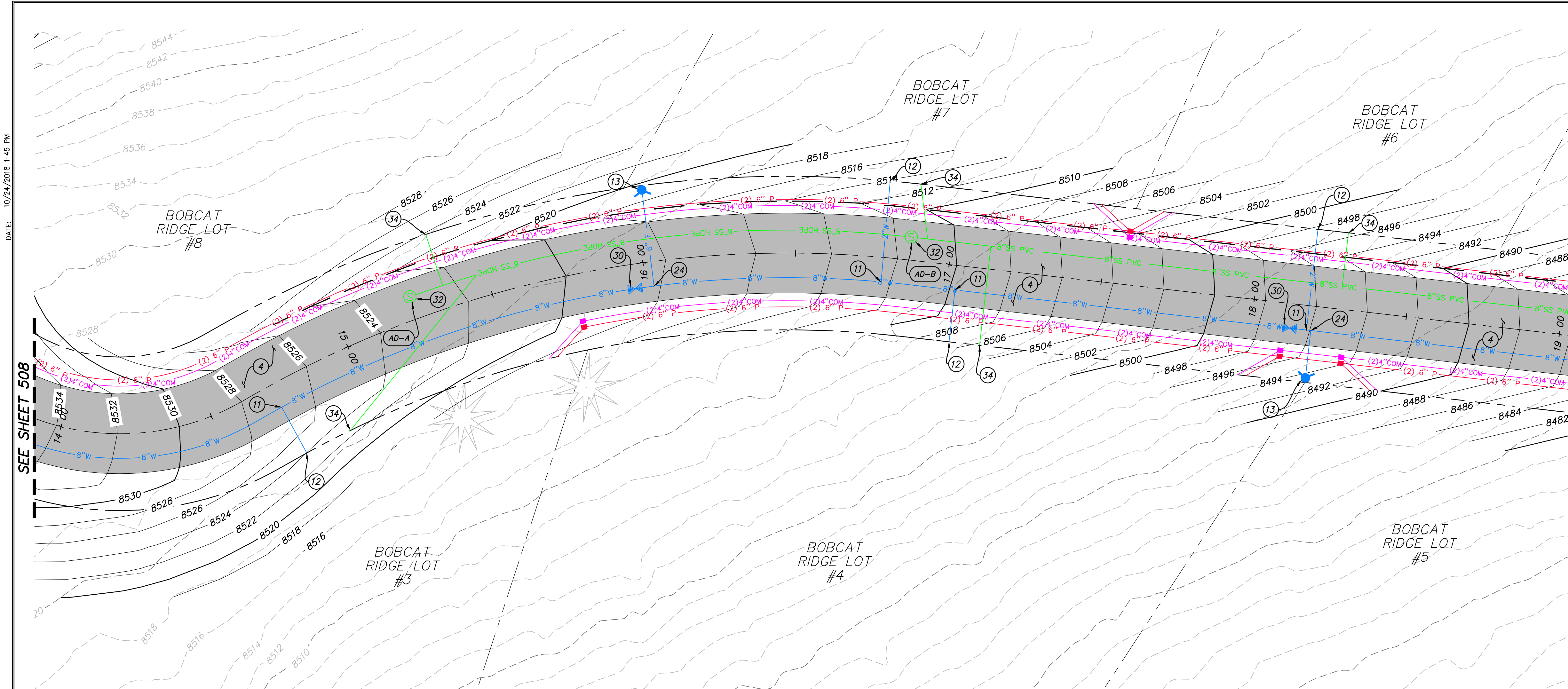




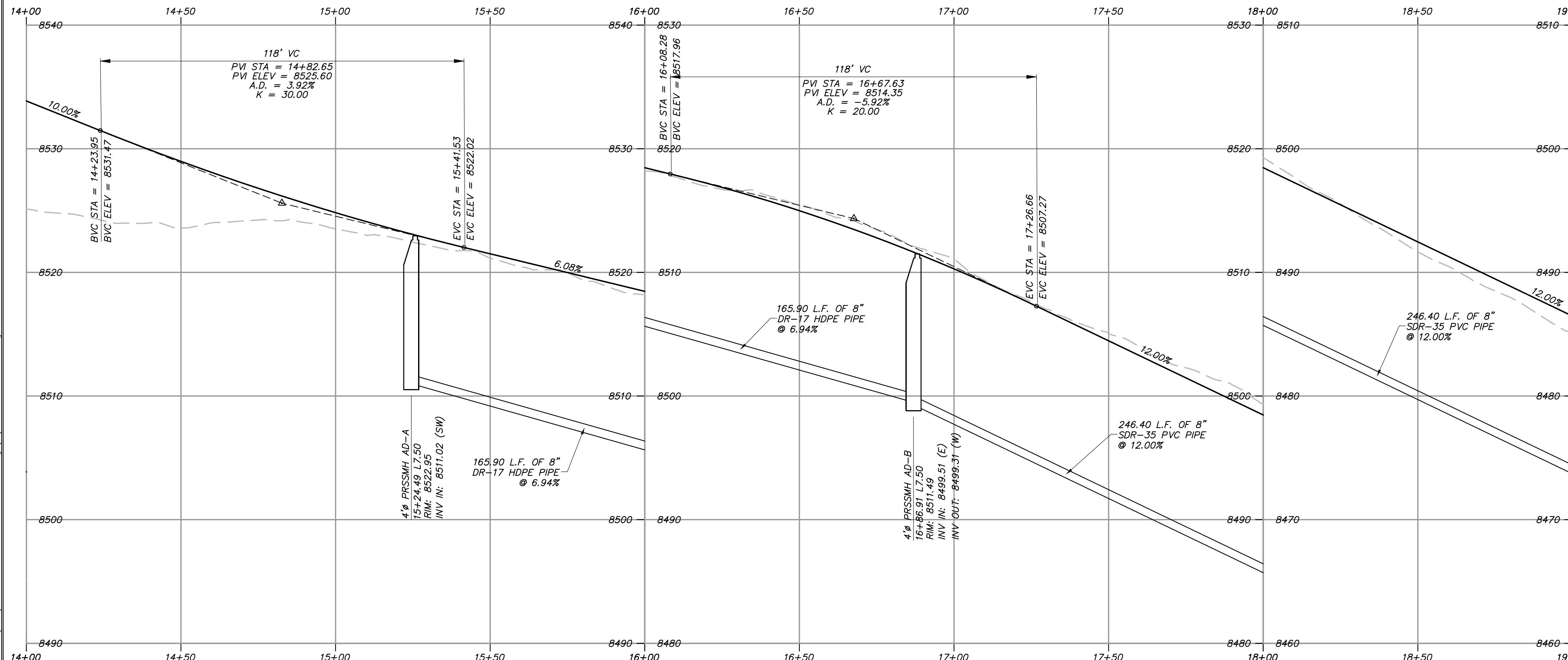
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SEE SHEET 508

SEE SHEET 510



**ASPEN DRIVE STA: 14+00 - 19+00**



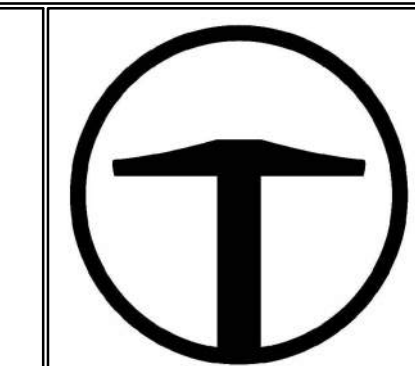
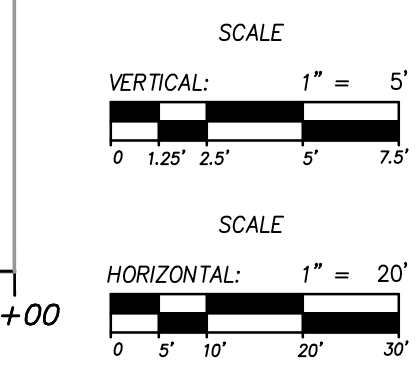
**PROFILE VIEW**

**SITE SCOPE OF WORK:**

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

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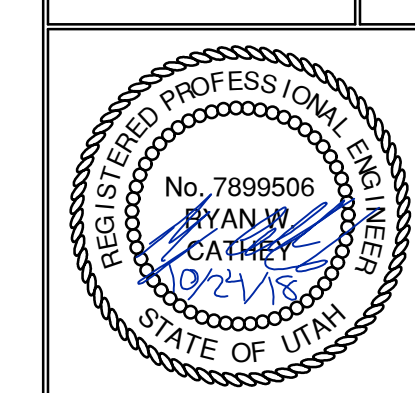
- ① MATCH EXISTING.
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NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
ASPEN DRIVE STA: 14+00 - 19+00  
DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18.200.22



REGISTERED PROFESSIONAL ENGINEER  
No. 7899506  
RYAN W. CATHEY  
10/24/18  
STATE OF UTAH

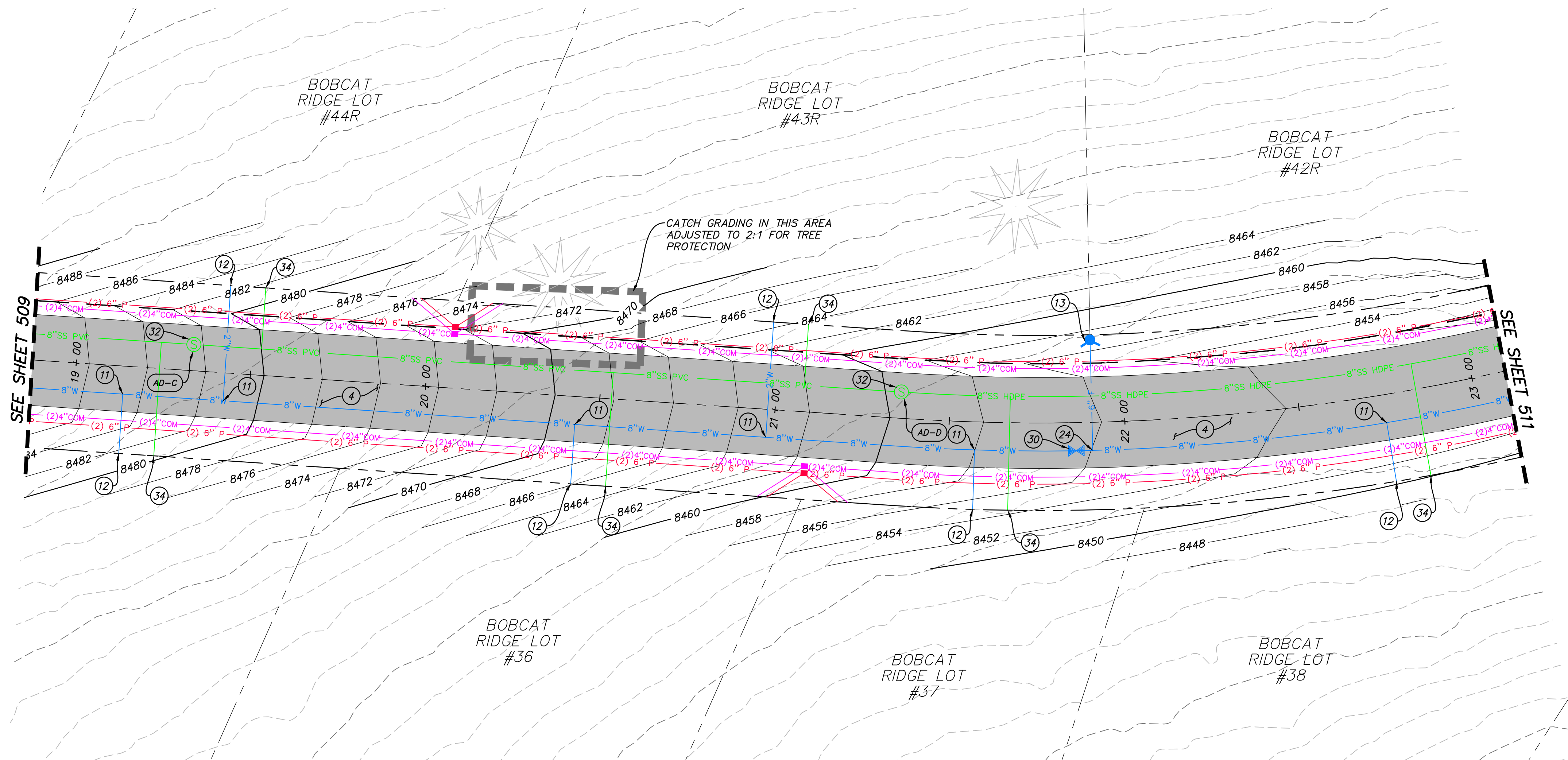
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SHEET NUMBER  
**509**  
25 OF 61

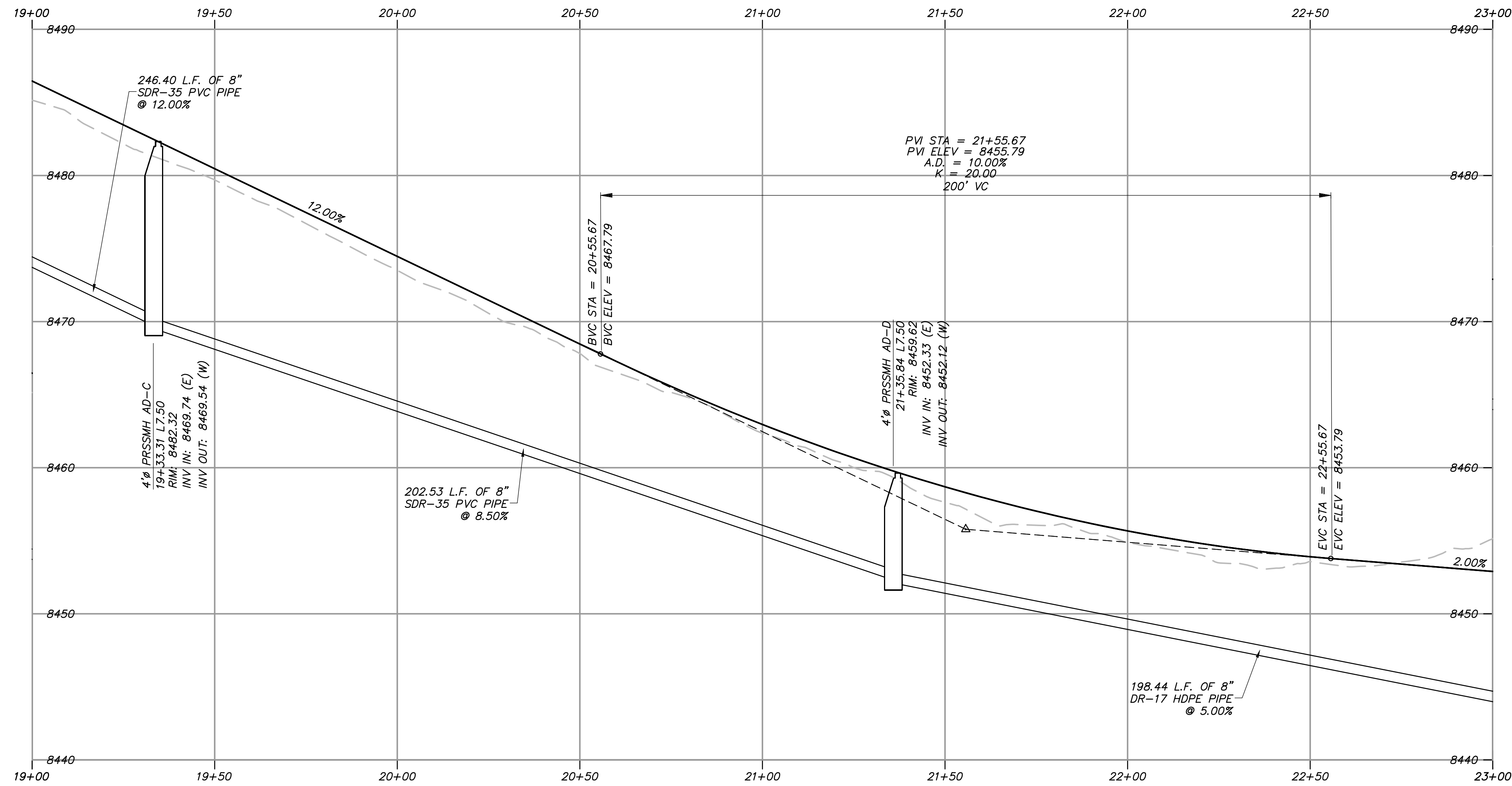


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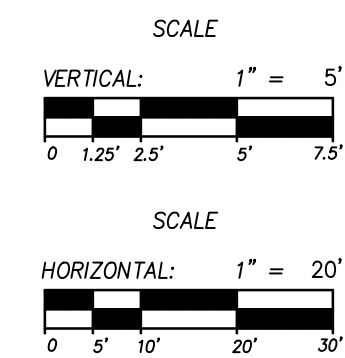
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ASPEN DRIVE STA: 19+00 - 23+00



PROFILE VIEW

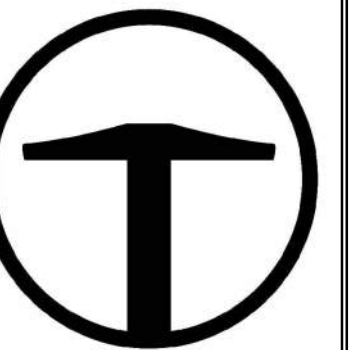


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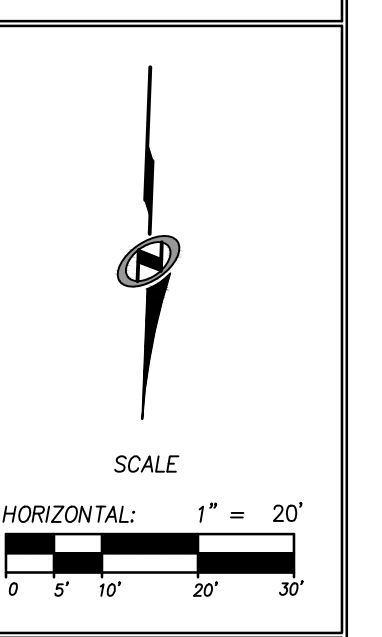
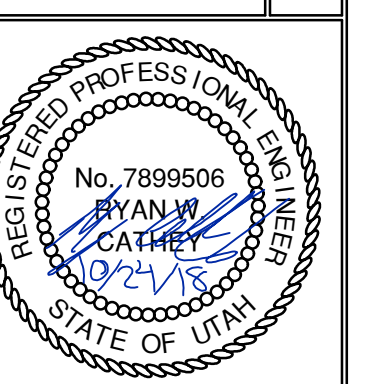
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- ㊱ INSTALL BR-1 GRINDER PUMP STATION PER DETAIL SHEET 707.
- ㊲ 2'x4' CATCH BASIN PER APWA PLAN NO. 315.
- ㊳ FLARED END SECTION PER APWA PLAN NO. 323.
- ㊴ 3'x3' PRECAST BOX WITH GRATED LID PER APWA PLAN NO. 332.
- ㊵ 4" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
- ㊶ 5" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
- ㊷ CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
- ㊸ ACCESS ROAD TO GRINDER STATION BR-1 PER SECTION ON SHEET 004.
- ㊹ 8" 11.25' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.

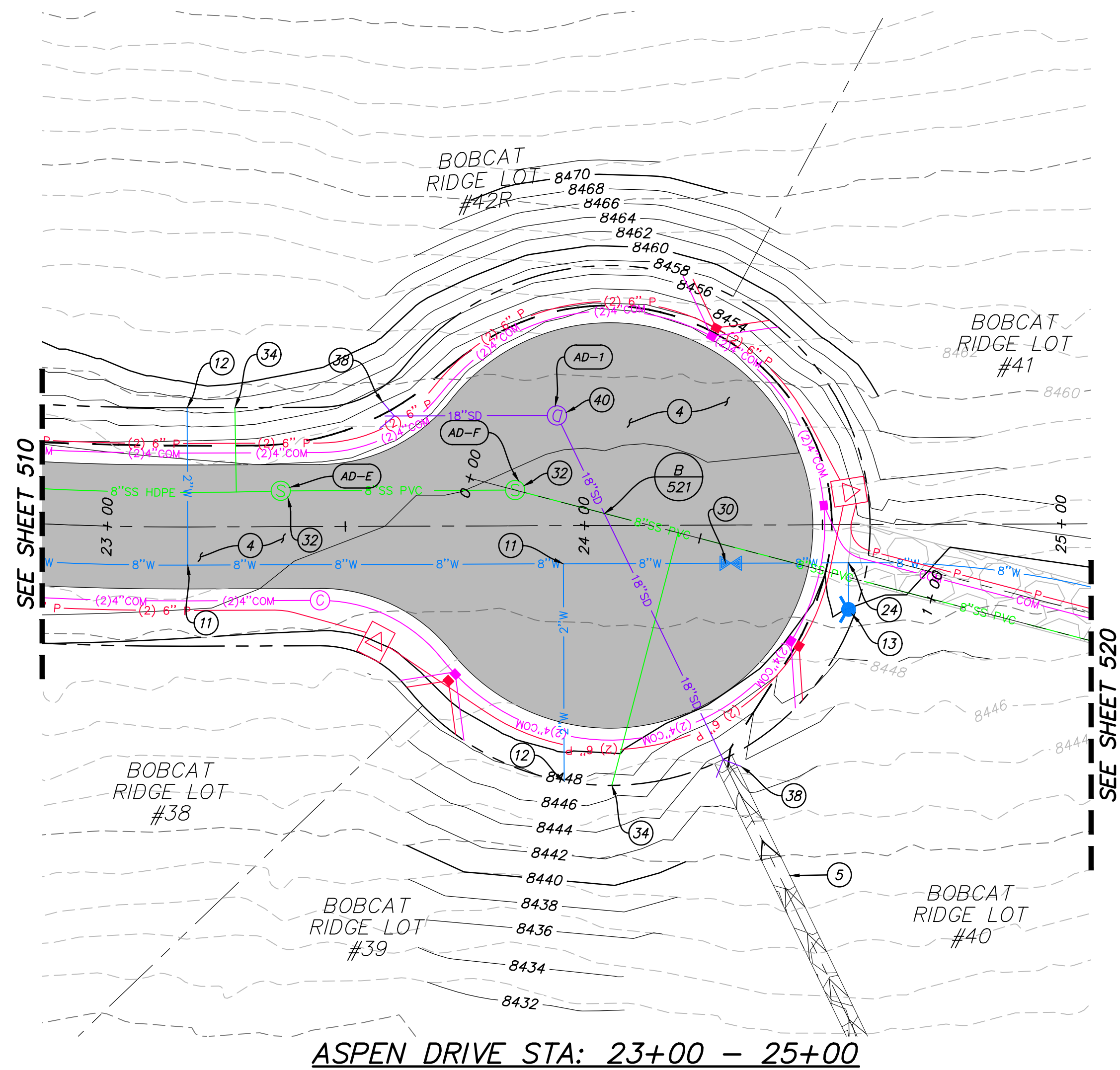


**TALISMAN**  
CIVIL CONSULTANTS  
6217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

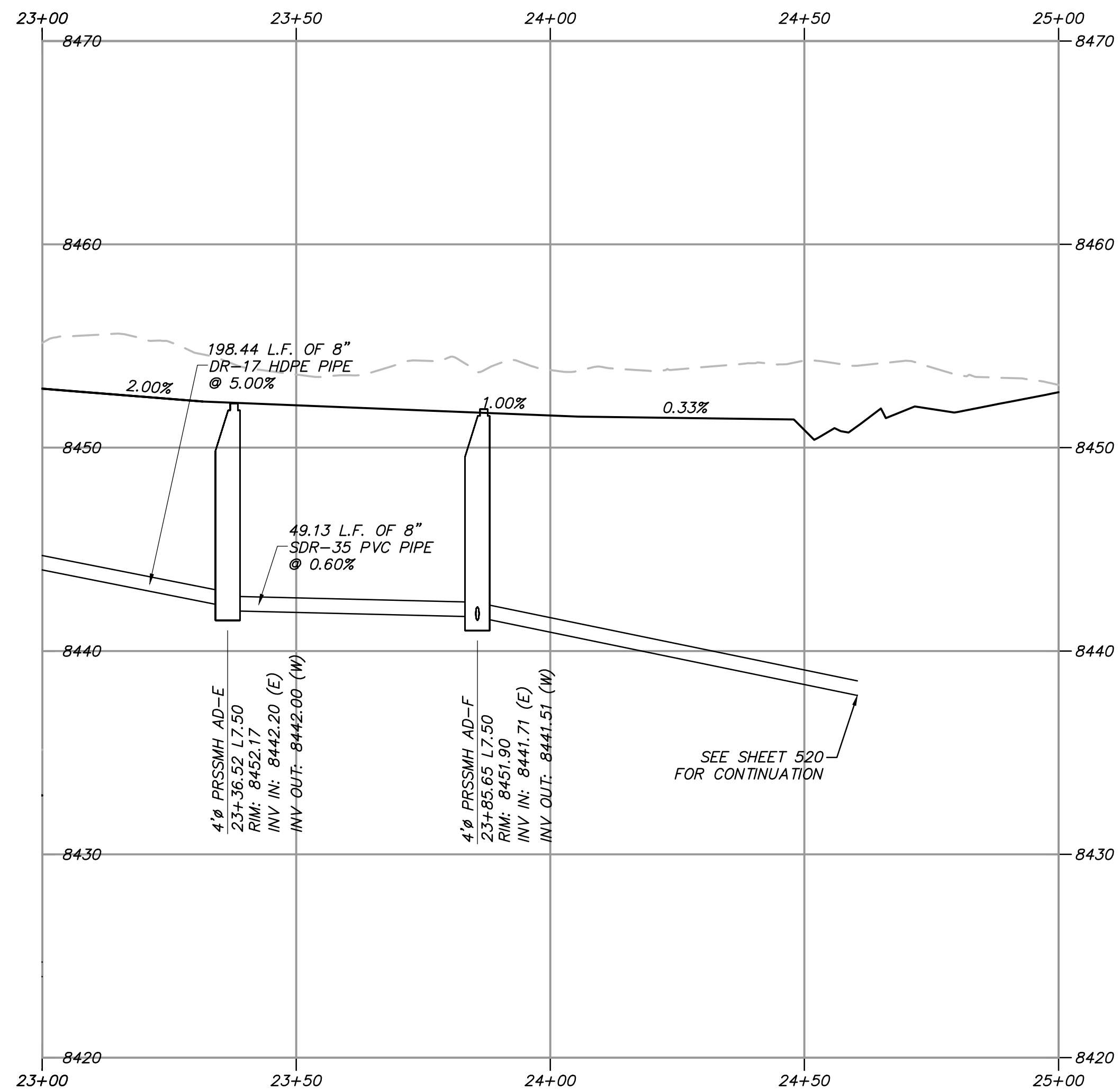
NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 PLAN AND PROFILE  
 ASPEN DRIVE STA: 19+00 - 23+00  
 DATE SUBMITTED: 10.24.2018  
 TCC JOB NUMBER: 18.200.22

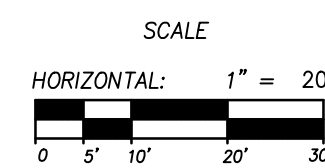
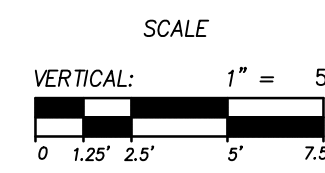




ASPEN DRIVE STA: 23+00 - 25+00



PROFILE VIEW



**SITE SCOPE OF WORK:**

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

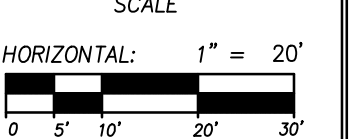
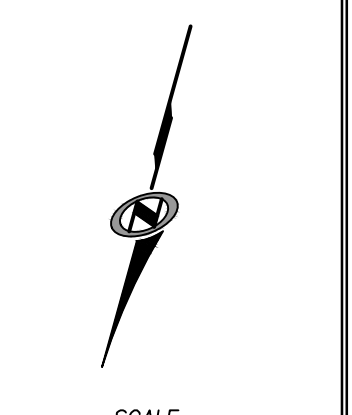
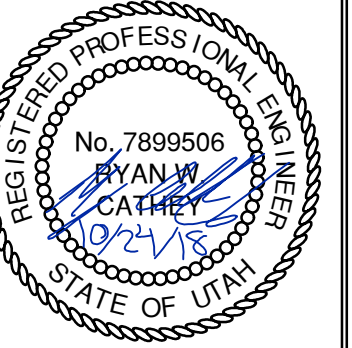
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- ④ ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- ⑤ INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
- ⑥ REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
- ⑦ D50 = 9"Ø RIP RAP.
- ⑧ ACCESS ROAD TO GRINDER STATION BR-2 PER SECTION ON SHEET 004.
- ⑨ CONNECT TO EXISTING 15"Ø STORM DRAIN PIPE.
- ⑩ CONNECT TO EXISTING 18"Ø WATER LINE.
- ⑪ 2"Ø WATER SERVICE TAP PER APWA PLAN NO. 552.
- ⑫ 2"Ø WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
- ⑬ FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S.
- ⑭ 4"Ø WASHOUT VALVE PER APWA PLAN NO. 571.
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- ⑰ 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ⑱ 10"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ⑲ 10"x10"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ⑳ 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉑ CONNECT CAPPED 8"Ø DRY PRESSURE SEWER LINE TO EXISTING MANHOLE.
- ㉒ 8"Ø 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉓ 8"x8"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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- ㉕ 10"Ø CROSS WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561 AND 562.
- ㉖ 10"Ø 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉗ 8"Ø 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉘ 10"Ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉙ NOT USED.
- ㉚ 8"Ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉛ CONNECT PRESSURE SEWER LINE TO EXISTING SANITARY SEWER MANHOLE.
- ㉜ 4"Ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
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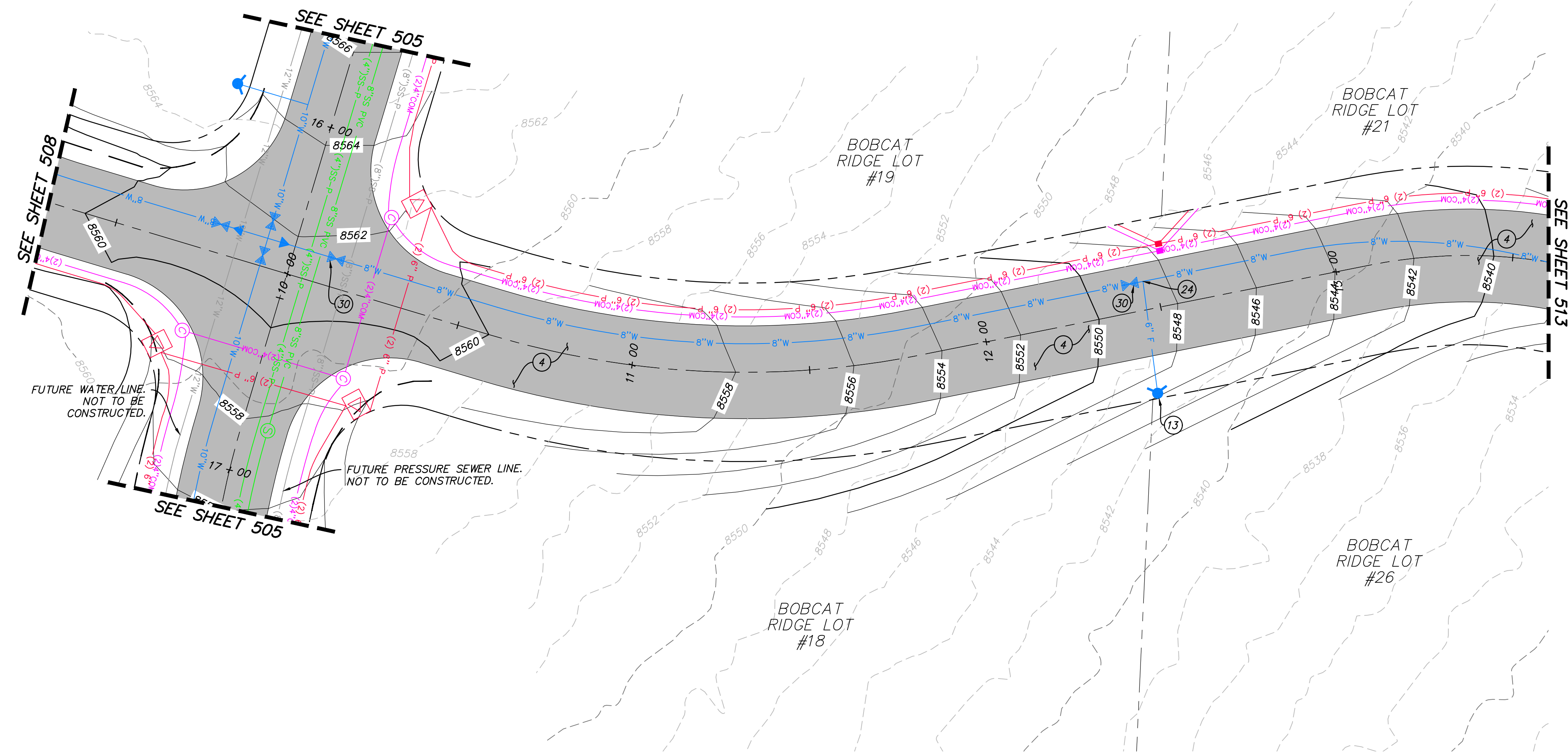
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**BOBCAT RIDGE AT S.P.M.**  
 PLAN AND PROFILE  
 ASPEN DRIVE STA: 23+00 - 25+00  
 DATE SUBMITTED: 10.24.2018  
 TCC JOB NUMBER: 18.200.22

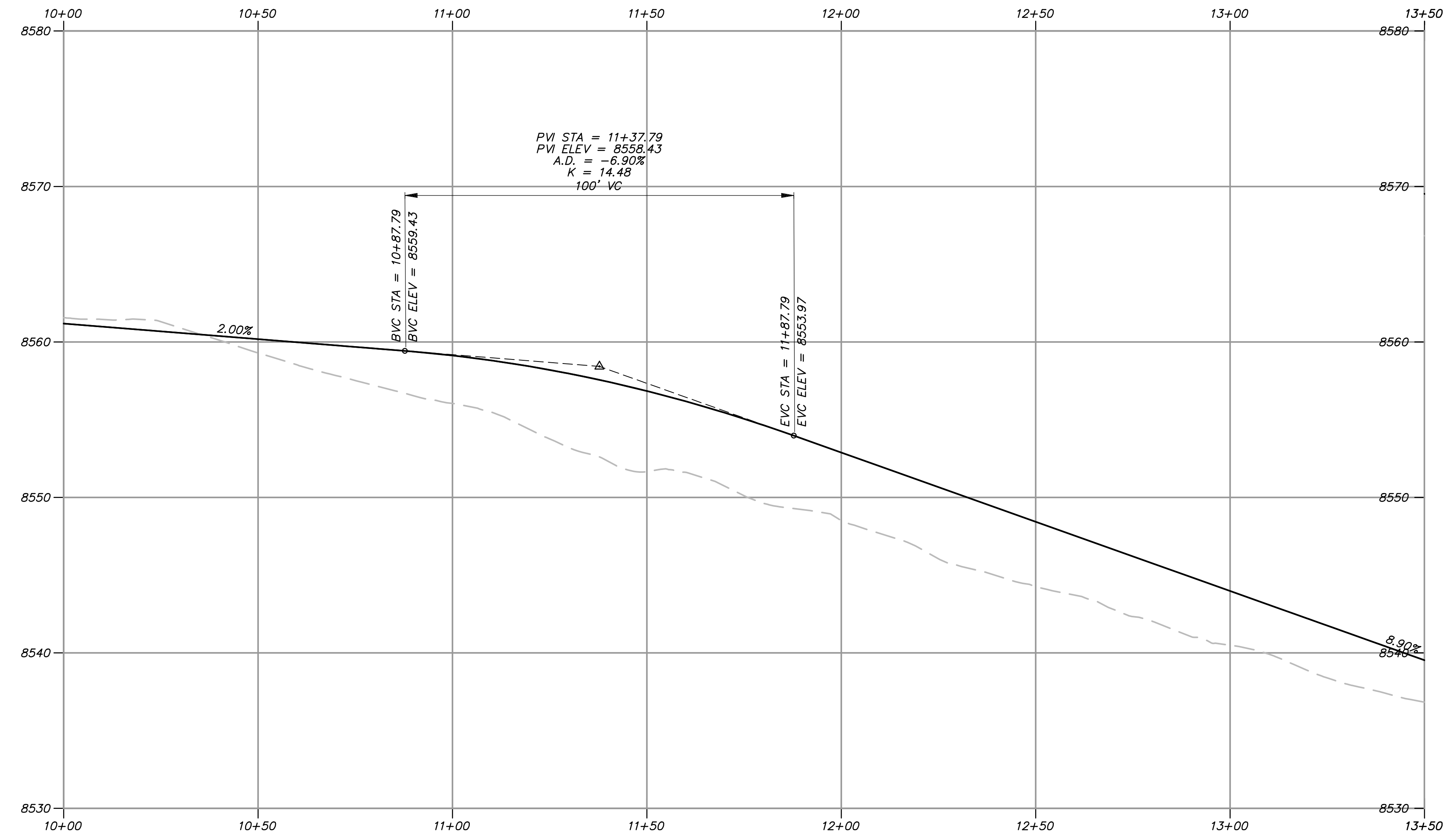


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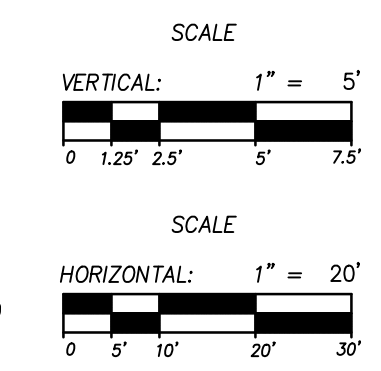
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MEADOW DRIVE STA: 10+00 - 13+50



PROFILE VIEW

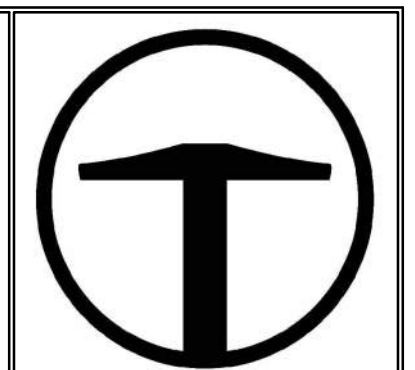


**SITE SCOPE OF WORK:**

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 CIVIL CONSULTANTS  
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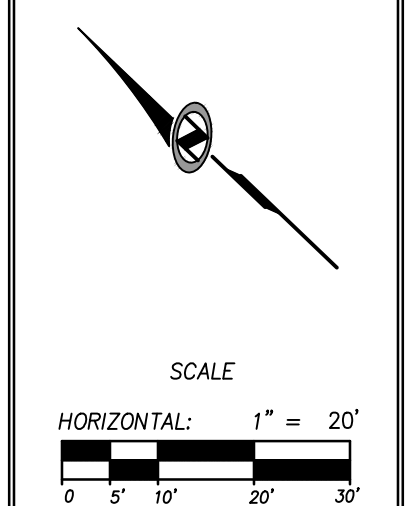
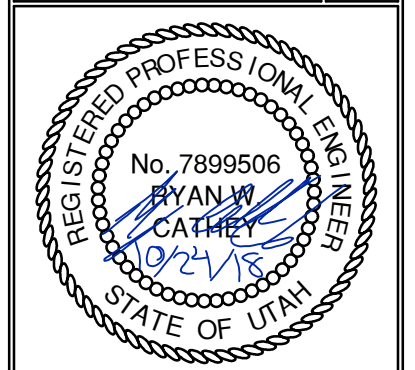
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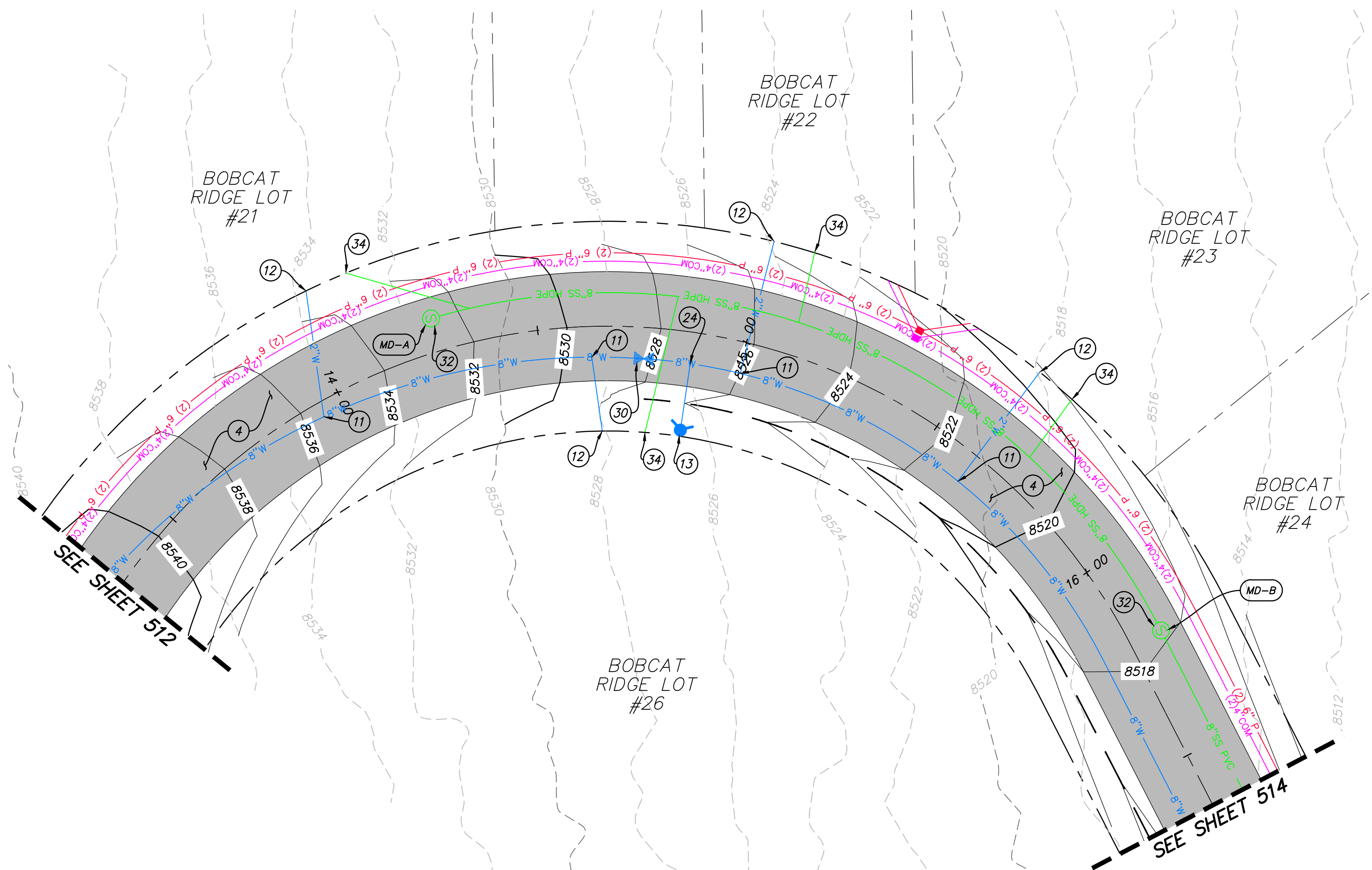
**BOBCAT RIDGE AT S.P.M.**  
 PLAN AND PROFILE

MEADOW DRIVE STA: 10+00 - 13+50

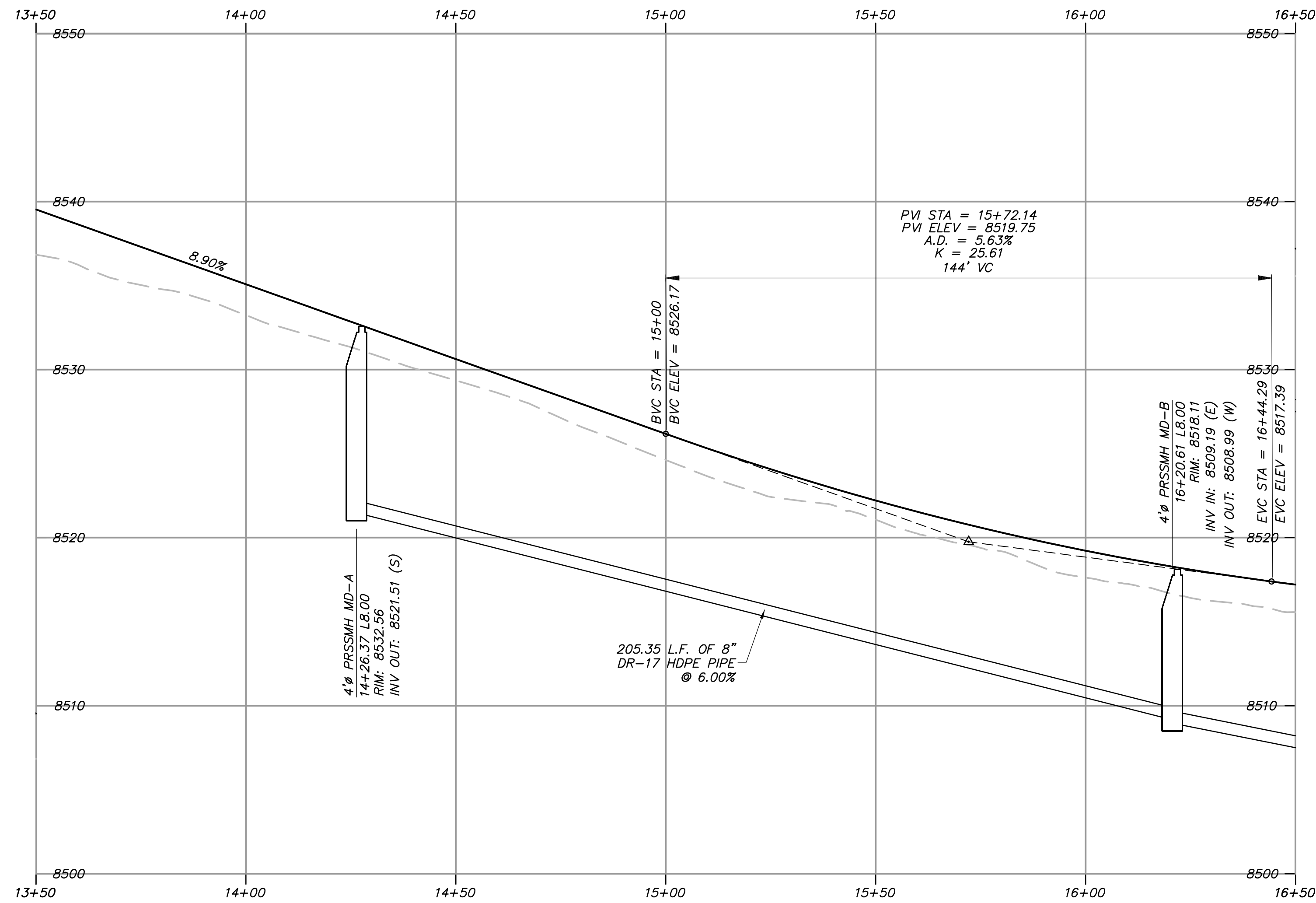
DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22

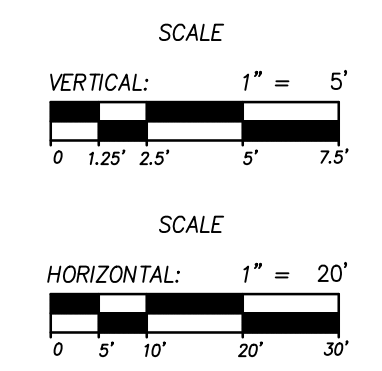




**MEADOW DRIVE STA: 13+50 - 16+50**



**PROFILE VIEW**



**SITE SCOPE OF WORK:**

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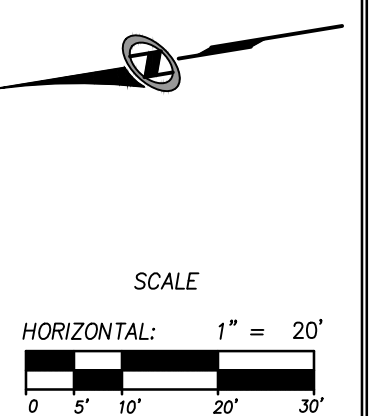
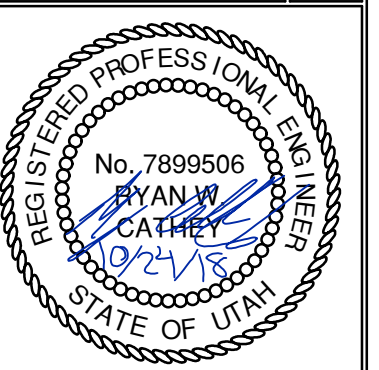
NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**

**PLAN AND PROFILE**

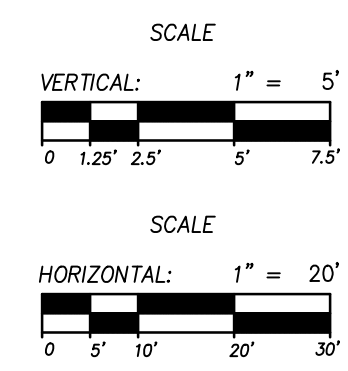
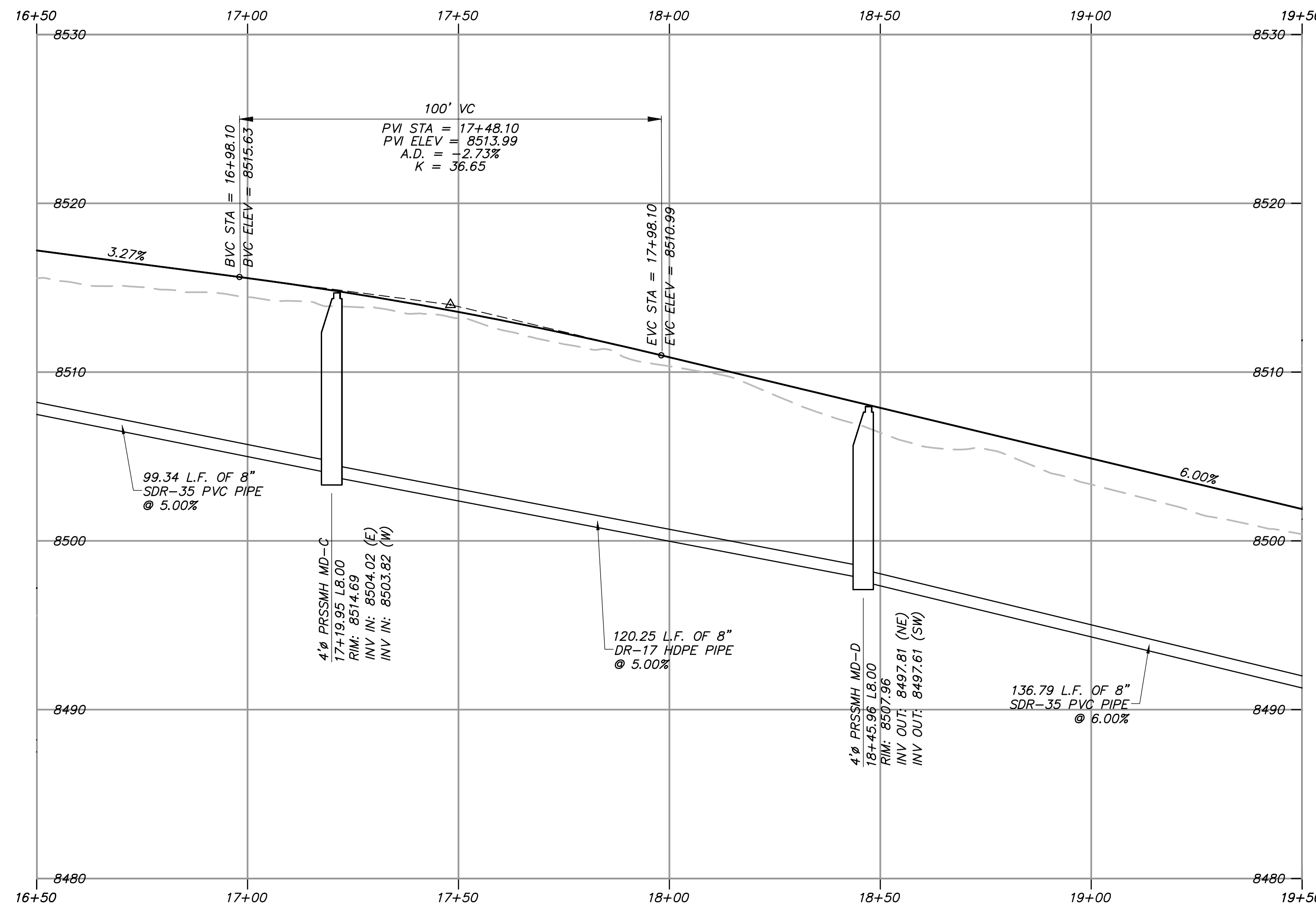
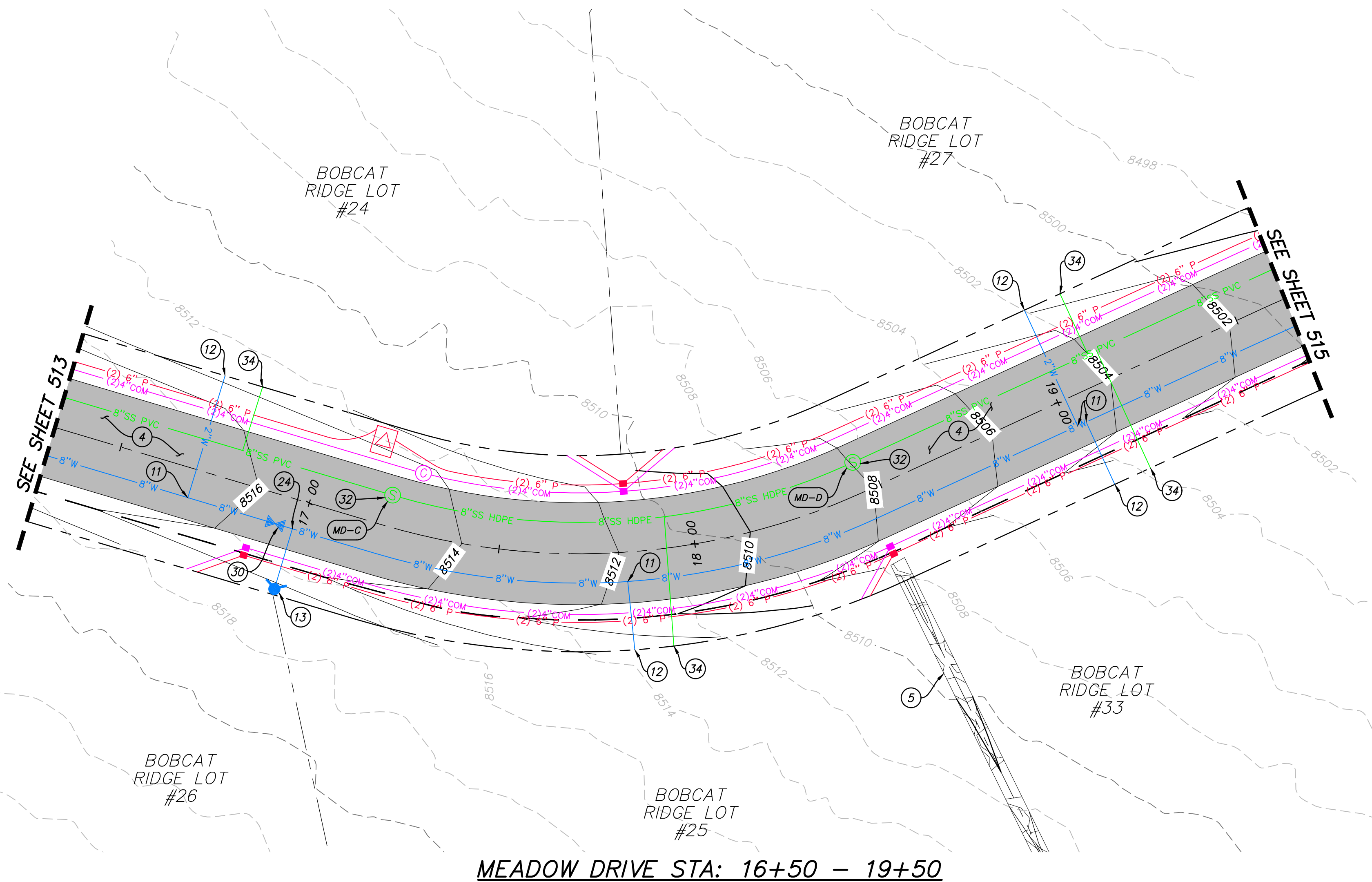
**MEADOW DRIVE STA: 13+50 - 16+50**

TCC JOB NUMBER: 18-200-22 DATE SUBMITTED: 10.24.2018



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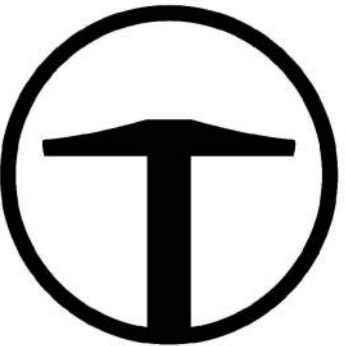


**SITE SCOPE OF WORK:**

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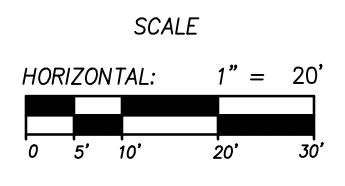
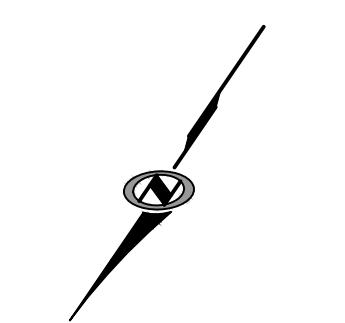
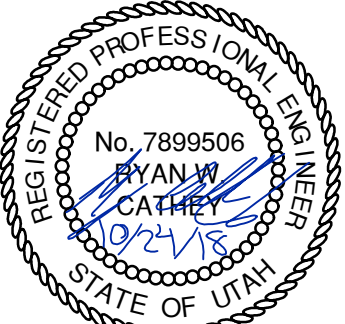
NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE

MEADOW DRIVE STA: 16+50 - 19+50

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22



SHEET NUMBER

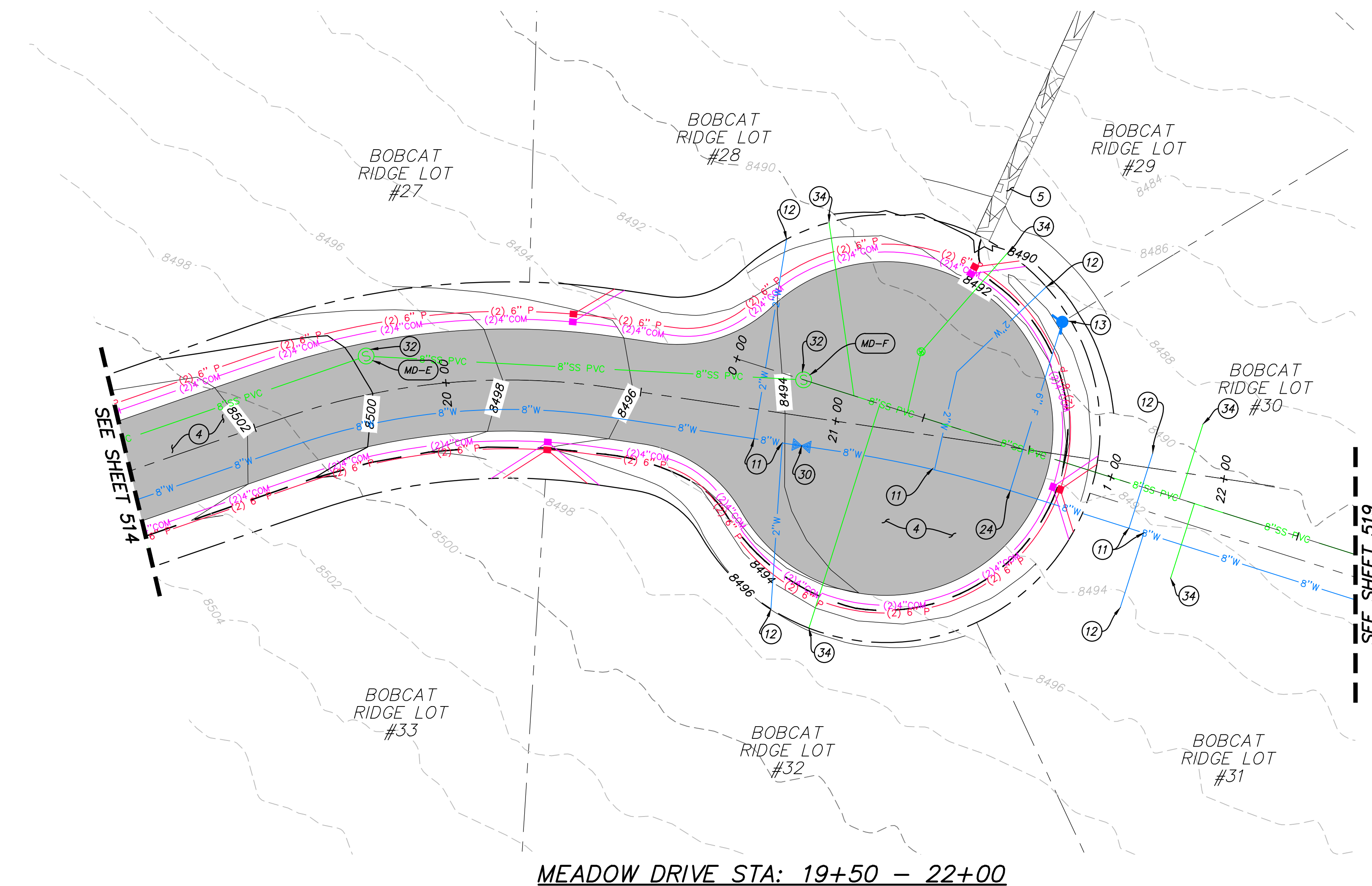
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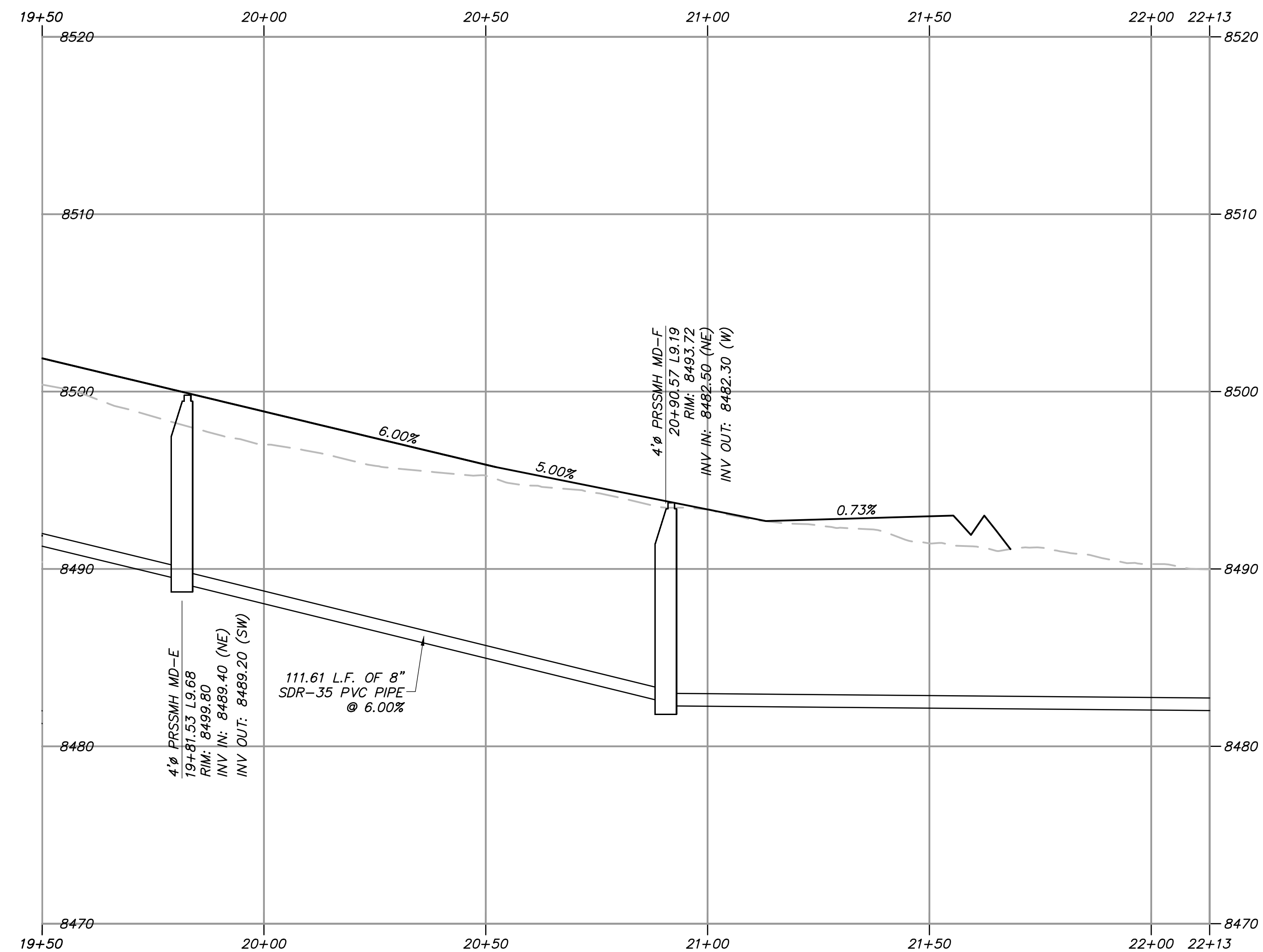


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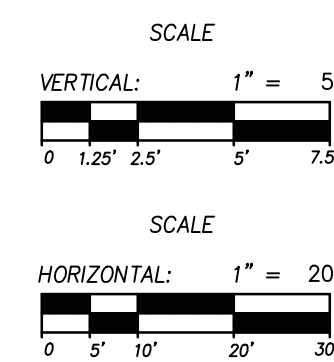
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MEADOW DRIVE STA: 19+50 - 22+00



PROFILE VIEW



**SITE SCOPE OF WORK:**

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

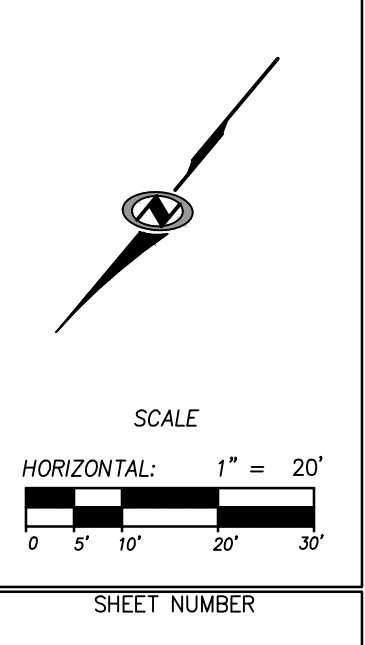
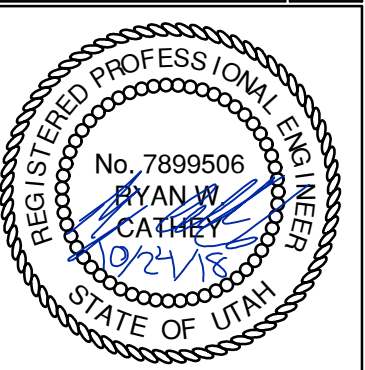
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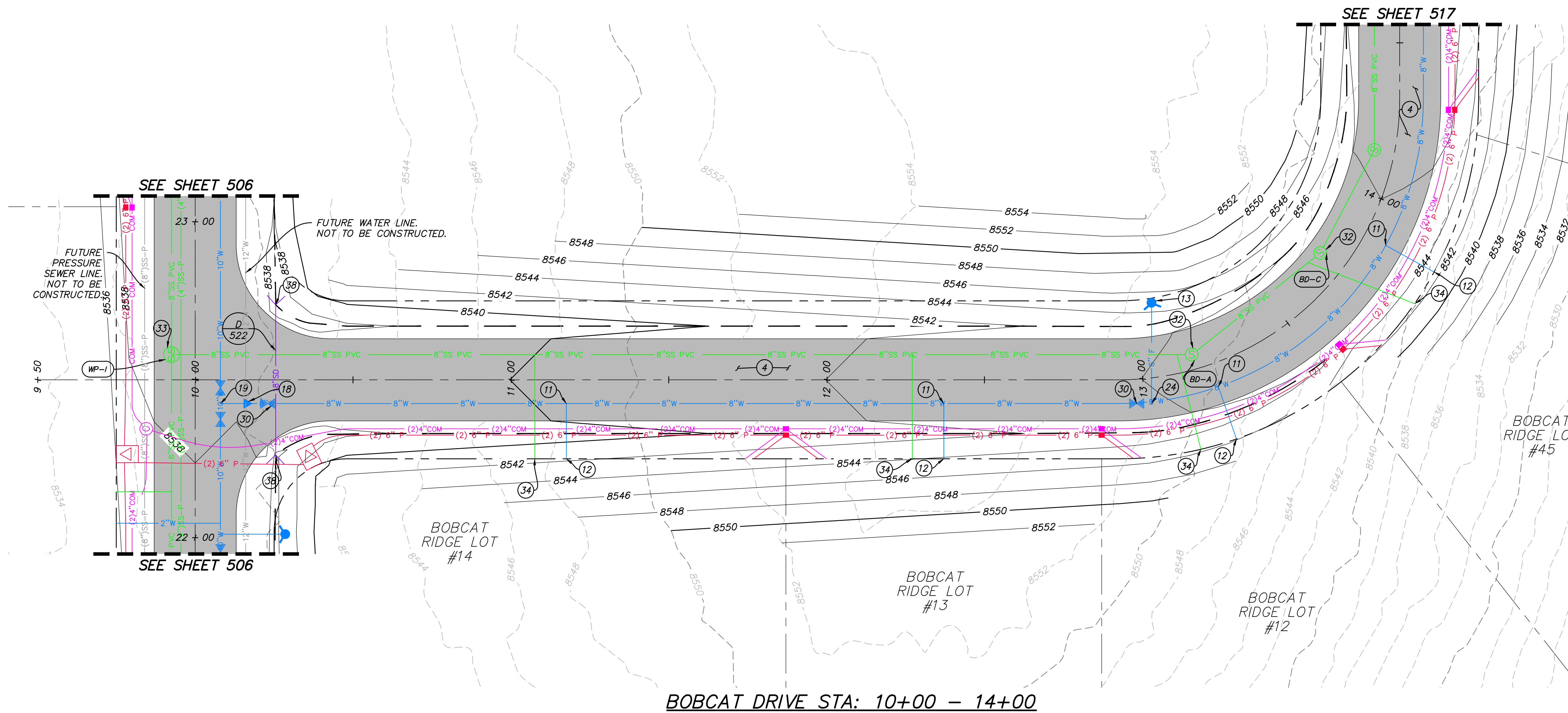
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- 2 TYPE "I" CURB AND GUTTER PER APWA PLAN NO. 205.
- 3 TRANSITION CURB AND GUTTER TO ZERO INTERFACE WITH ASPHALT.
- 4 ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- 5 INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
- 6 REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
- 7 D50 = 9"ø RIP RAP.
- 8 ACCESS ROAD TO GRINDER STATION BR-2 PER SECTION ON SHEET 004.
- 9 CONNECT TO EXISTING 15"ø STORM DRAIN PIPE.
- 10 CONNECT TO EXISTING 18"ø WATER LINE.
- 11 2"ø WATER SERVICE TAP PER APWA PLAN NO. 552.
- 12 2"ø WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
- 13 FIRE HYDRANT ASSEMBLY PER PMSID PLAN NO. 511S.
- 14 4"ø WASHOUT VALVE PER APWA PLAN NO. 571.
- 15 AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575.
- 16 INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 708.
- 17 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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- 19 10"x10"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- 20 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- 21 CONNECT CAPPED 8"ø DRY PRESSURE SEWER LINE TO EXISTING MANHOLE.
- 22 8"ø 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- 23 8"x8"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- 24 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- 25 10"ø CROSS WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561 AND 562.
- 26 10"ø 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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- 38 FLARED END SECTION PER APWA PLAN NO. 323.
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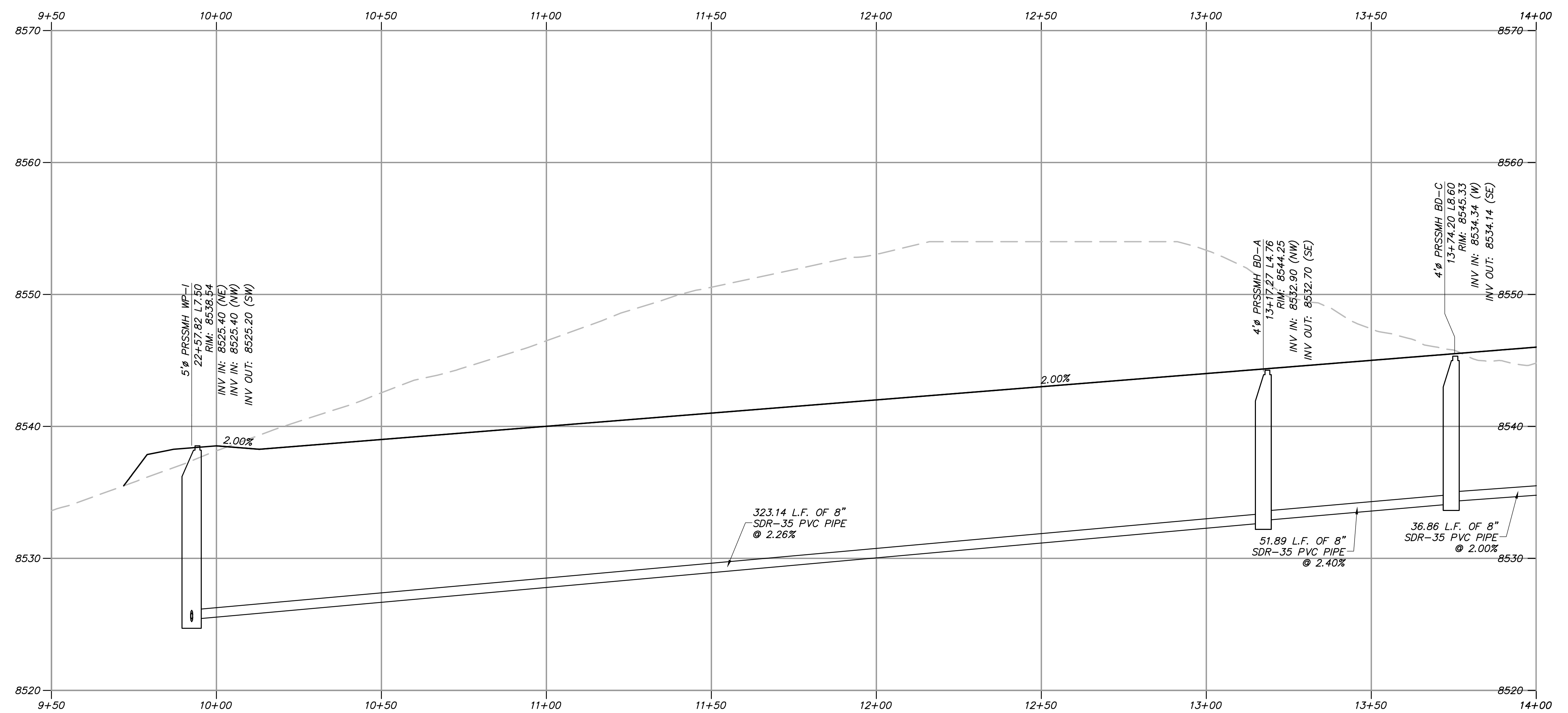
NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 PLAN AND PROFILE  
 MEADOW DRIVE STA: 19+50 - 22+00  
 DATE SUBMITTED: 10.24.2018  
 TCC JOB NUMBER: 18.200.22

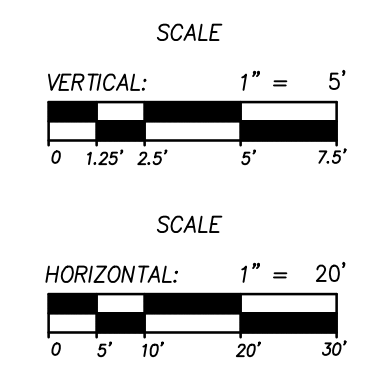




**BOBCAT DRIVE STA: 10+00 - 14+00**

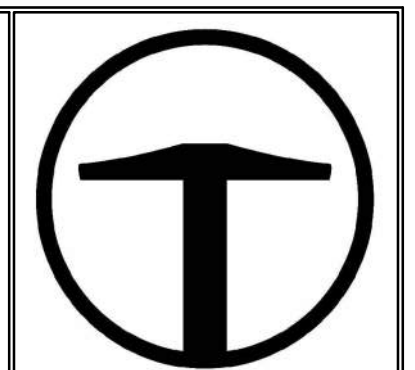


**PROFILE VIEW**



**SITE SCOPE OF WORK:**

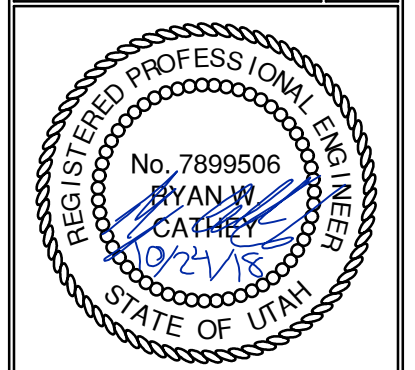
- NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.
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  - INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
  - REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
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  - CONNECT TO EXISTING 18" WATER LINE.
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  - 2" WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
  - FIRE HYDRANT ASSEMBLY PER PMWSD PLAN NO. 5115.
  - 4" WASHOUT VALVE PER APWA PLAN NO. 571.
  - AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575.
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  - CONNECT CAPPED 8" DRY PRESSURE SEWER LINE TO EXISTING MANHOLE.
  - 8" 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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  - 8" 11.25' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.



**TALISMAN**  
CIVIL CONSULTANTS  
6217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
BOBCAT DRIVE STA: 10+00 - 14+00  
DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18.200.22

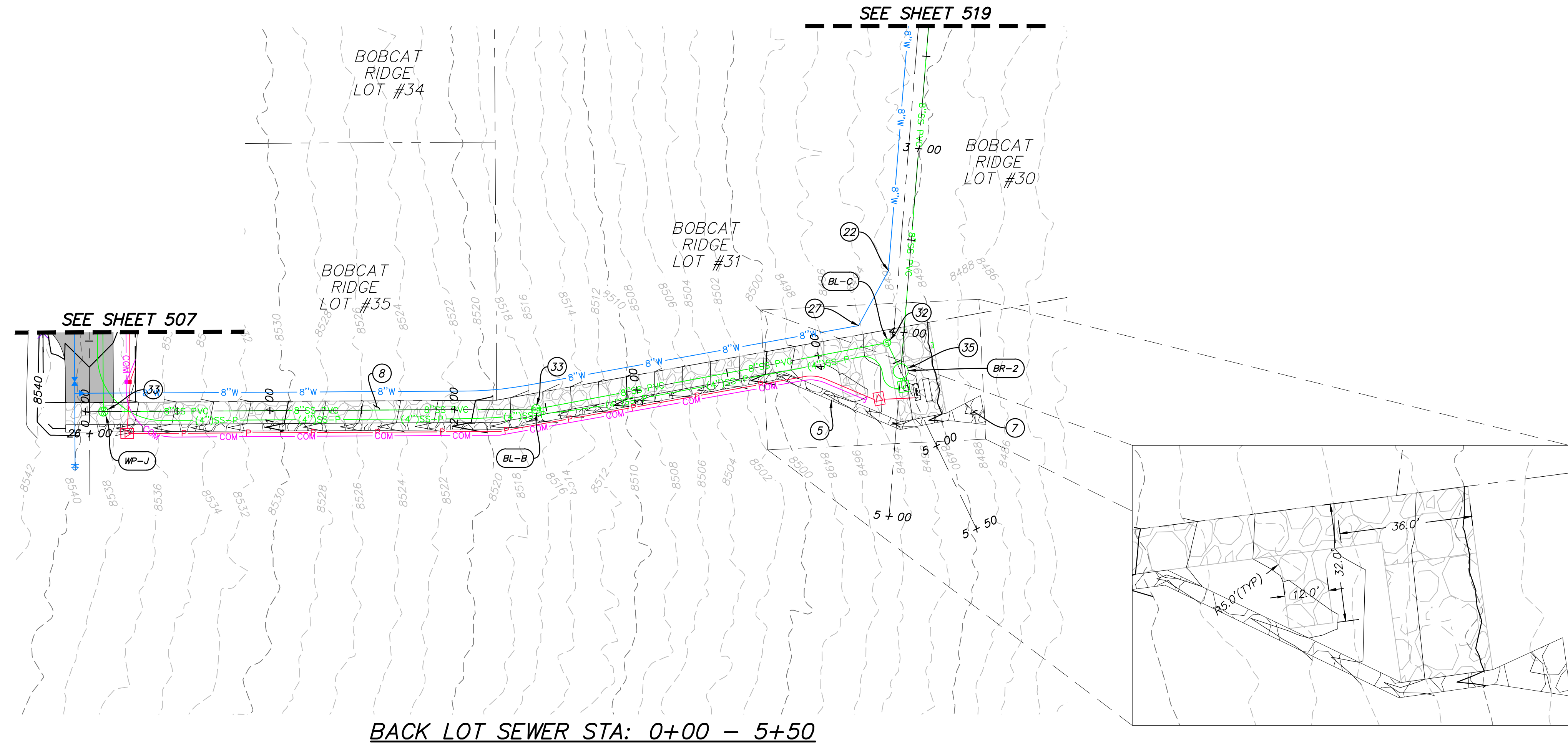


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SHEET NUMBER  
**516**  
32 OF 61

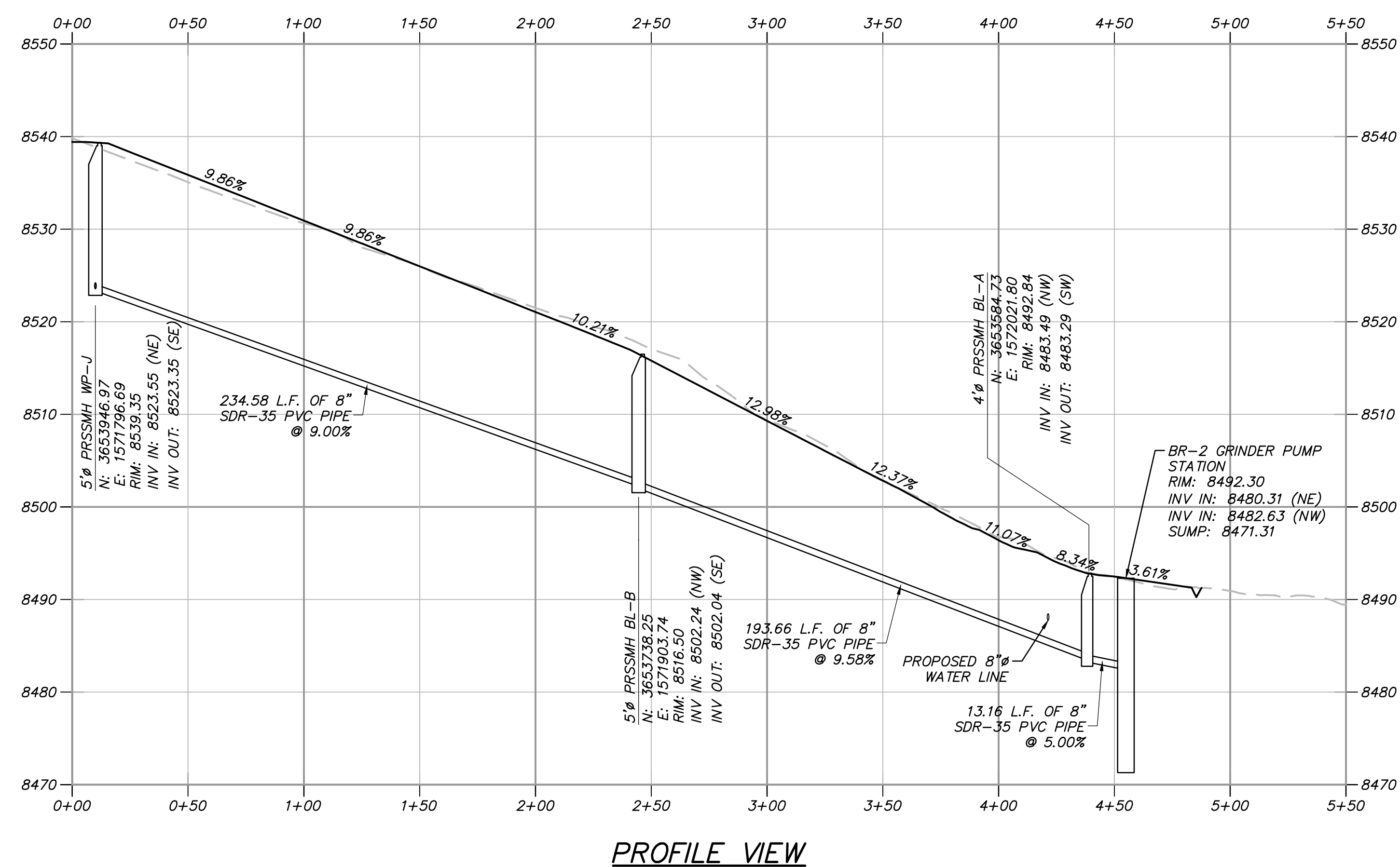




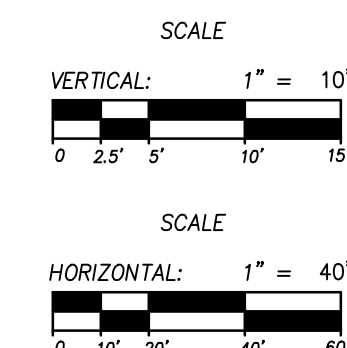




BACK LOT SEWER STA: 0+00 - 5+50



PROFILE VIEW

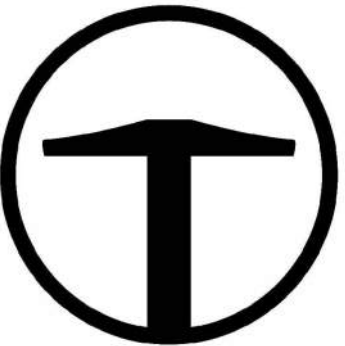


**SITE SCOPE OF WORK:**

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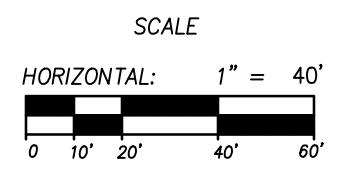
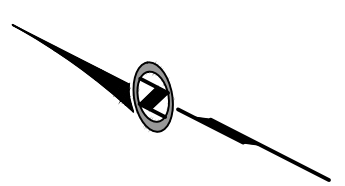
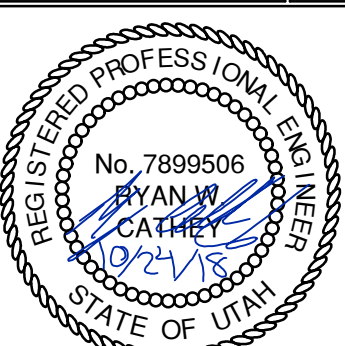
**TALISMAN**  
CIVIL CONSULTANTS  
5217 SOUTH STATE STREET  
SUITE 200  
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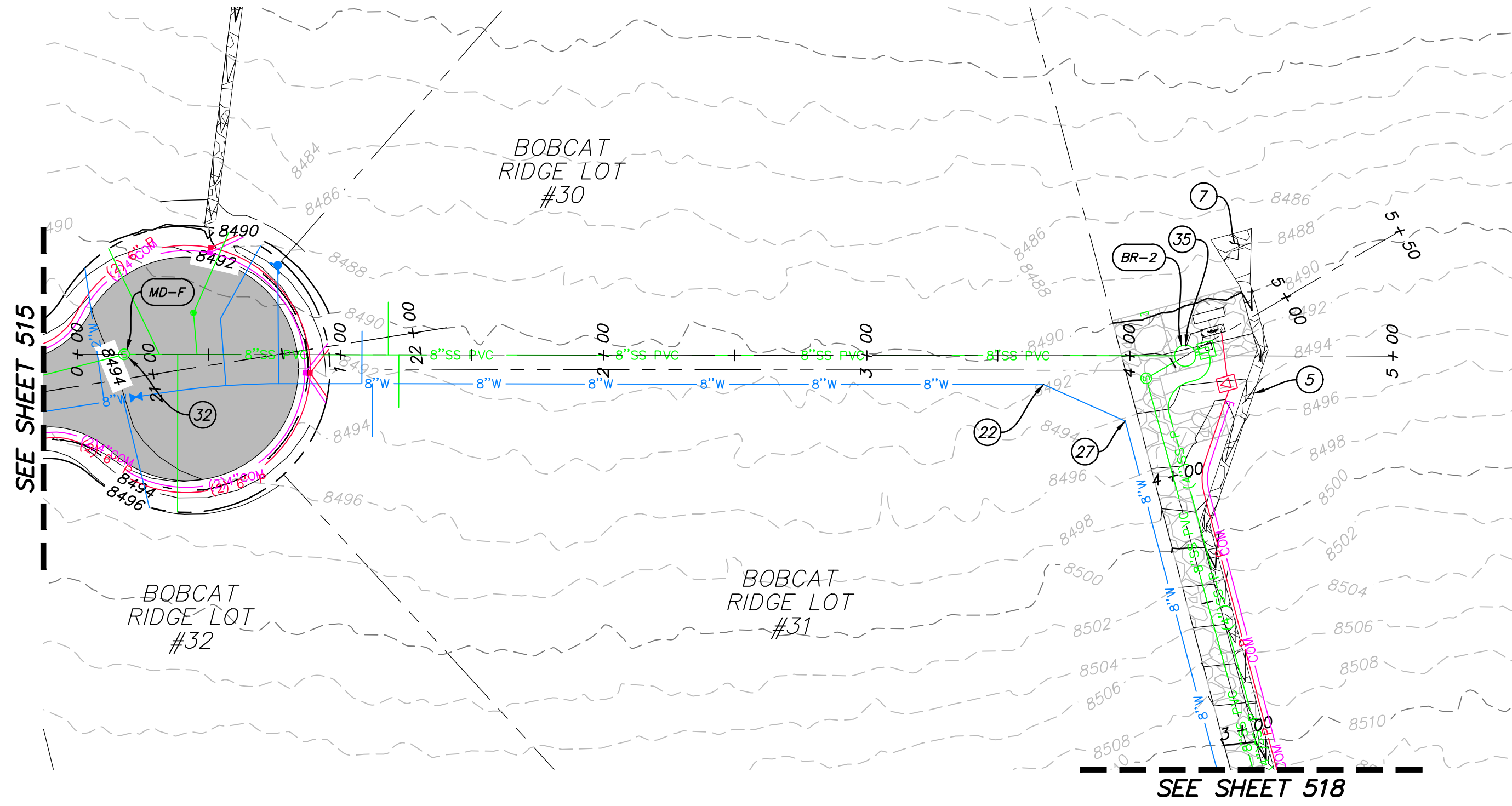
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**BOBCAT RIDGE AT S.P.M.**

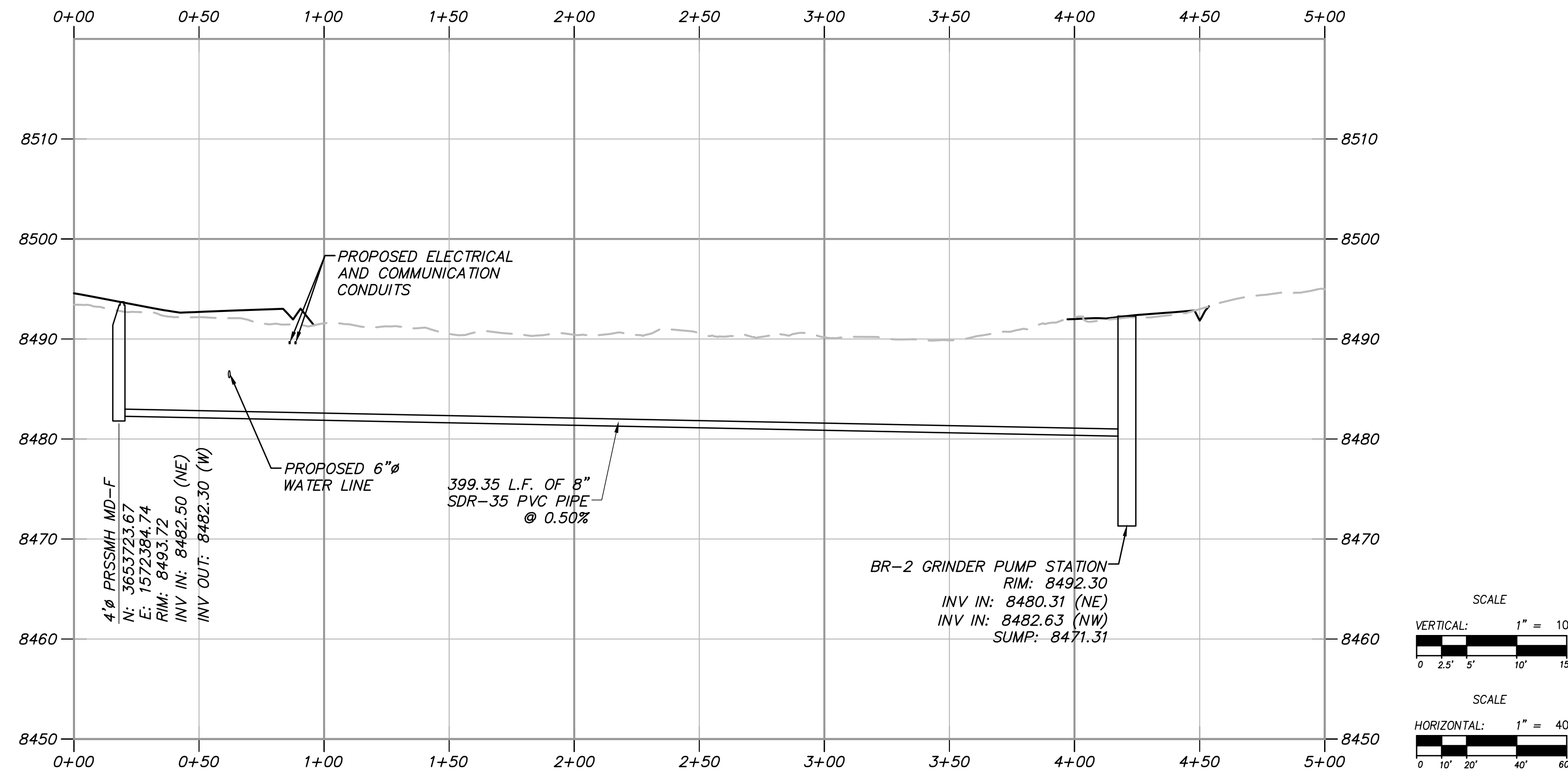
PLAN AND PROFILE

BACK LOT SEWER STA: 0+00 - 5+50

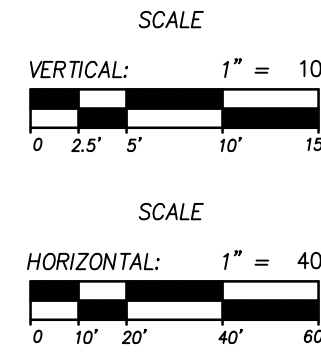




BACK LOT SEWER STA: 0+00 - 5+00



PROFILE VIEW



SITE SCOPE OF WORK:

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NO.	DATE	BY	REVISIONS

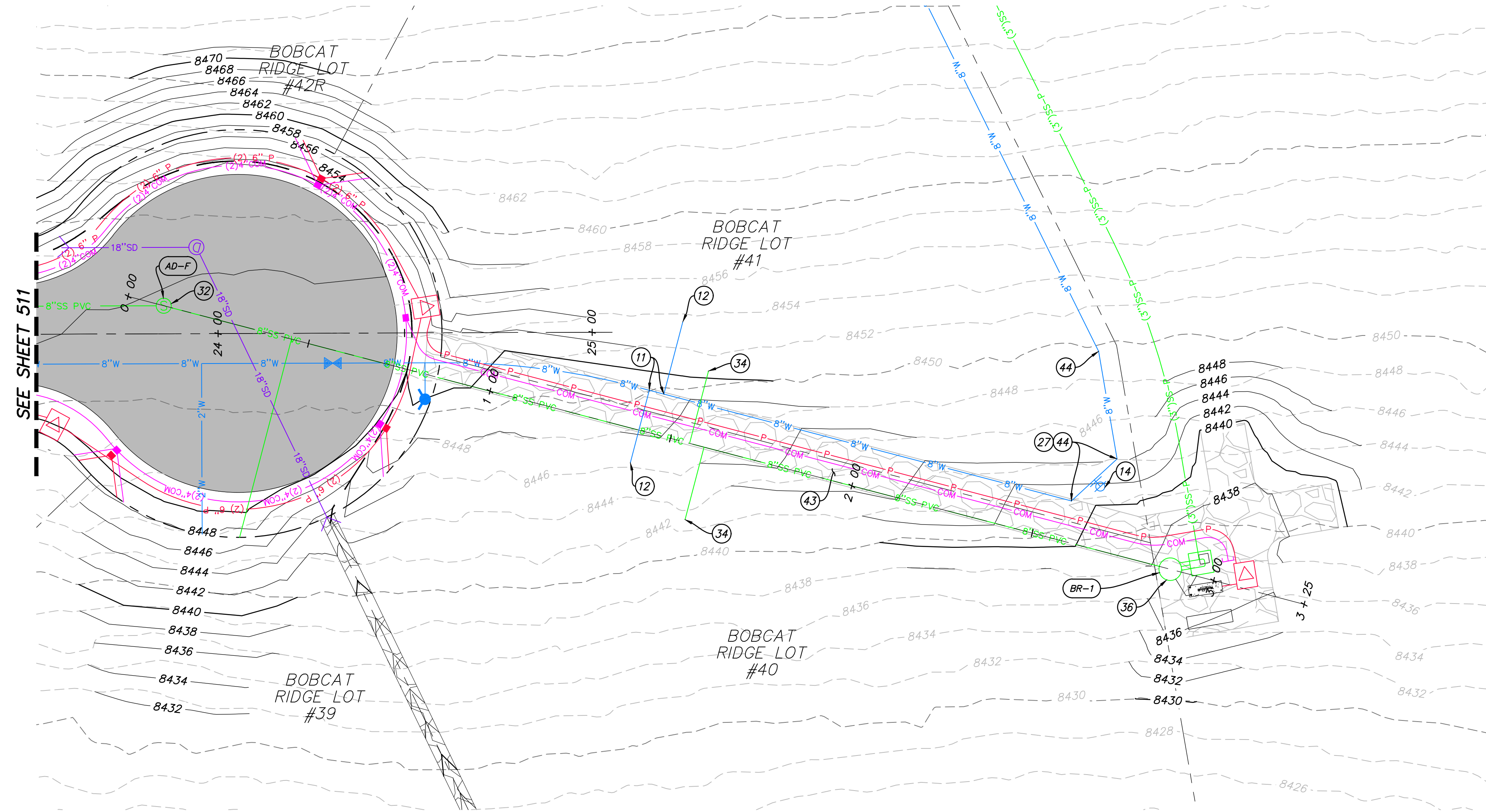
**BOBCAT RIDGE AT S.P.M.**  
 PLAN AND PROFILE  
 BACK LOT SEWER STA: 0+00 - 5+00  
 TCC JOB NUMBER: 18.200.22      DATE SUBMITTED: 10.24.2018

SHEET NUMBER  
**519**  
 35 OF 61

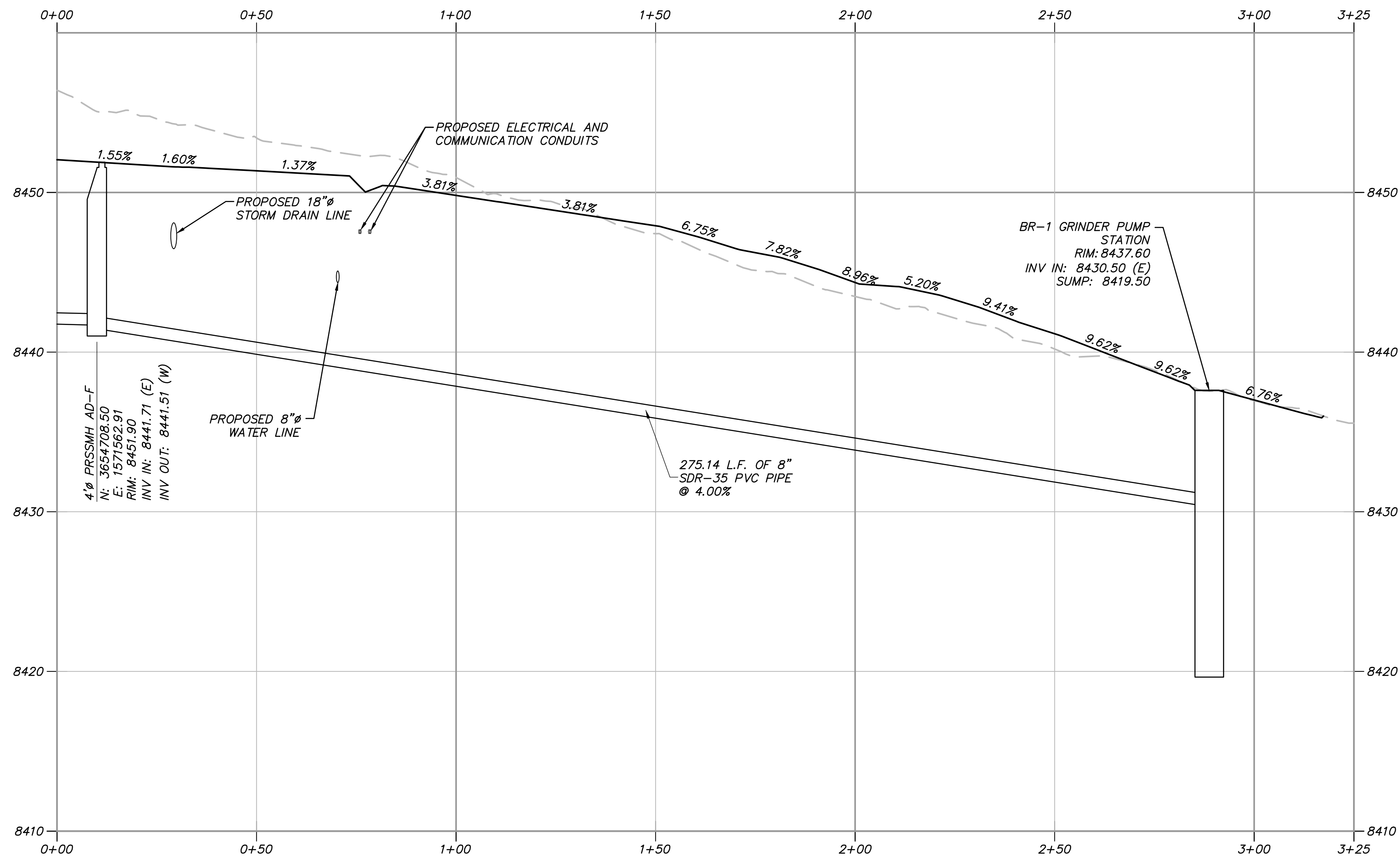


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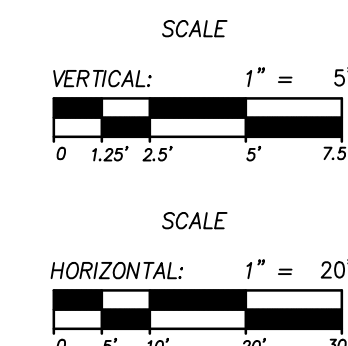
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BACK LOT SEWER STA: 0+00 - 3+25



PROFILE VIEW

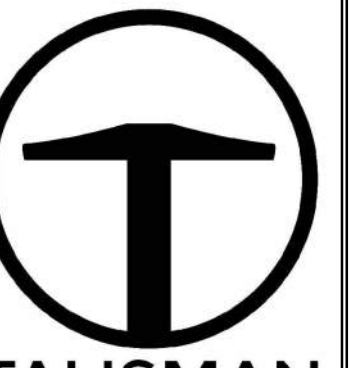


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- ④ ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
- ⑤ INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
- ⑥ REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
- ⑦ D50 = 9" RIP RAP.
- ⑧ ACCESS ROAD TO GRINDER STATION BR-2 PER SECTION ON SHEET 004.
- ⑨ CONNECT TO EXISTING 15" STORM DRAIN PIPE.
- ⑩ CONNECT TO EXISTING 18" WATER LINE.
- ⑪ 2" WATER SERVICE TAP PER APWA PLAN NO. 552.
- ⑫ 2" WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
- ⑬ FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S.
- ⑭ 4" WASHOUT VALVE PER APWA PLAN NO. 571.
- ⑮ AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575.
- ⑯ INSTALL PRESSURE REDUCING VALVE AND VAULT PER DETAIL SHEET 708.
- ⑰ 18"x10" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ⑱ 10"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ⑲ 10"x10"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ⑳ 10"x6"x10" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉑ CONNECT CAPPED 8" DRY PRESSURE SEWER LINE TO EXISTING MANHOLE.
- ㉒ 8" 22.5' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉓ 8"x8"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉔ 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉕ 10" CROSS WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561 AND 562.
- ㉖ 10" 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉗ 8" 45' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉘ 10" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉙ NOT USED.
- ㉚ 8" GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
- ㉛ CONNECT PRESSURE SEWER LINE TO EXISTING SANITARY SEWER MANHOLE.
- ㉜ 4" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
- ㉝ 5" SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
- ㉞ 4" SANITARY SEWER LATERAL PER DETAIL B/SHEET 702.
- ㉟ INSTALL BR-2 GRINDER PUMP STATION PER DETAIL SHEET 706.
- ㊱ INSTALL BR-1 GRINDER PUMP STATION PER DETAIL SHEET 707.
- ㊲ 2'x4' CATCH BASIN PER APWA PLAN NO. 315.
- ㊳ FLARED END SECTION PER APWA PLAN NO. 323.
- ㊴ 3'x3' PRECAST BOX WITH GRATED LID PER APWA PLAN NO. 332.
- ㊵ 4" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
- ㊶ 5" PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
- ㊷ CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
- ㊸ ACCESS ROAD TO GRINDER STATION BR-1 PER SECTION ON SHEET 004.
- ㊹ 8" 11.25' BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.



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NO.	DATE	BY	REVISIONS

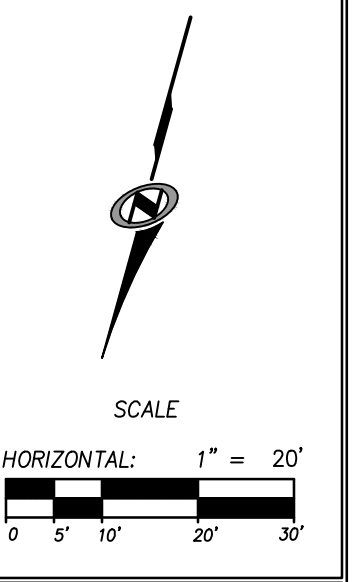
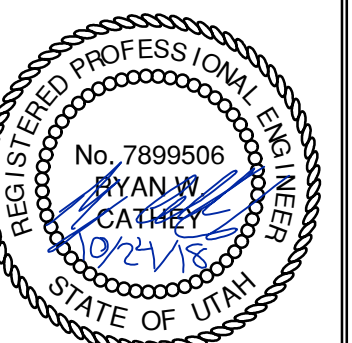
**BOBCAT RIDGE AT S.P.M.**

**PLAN AND PROFILE**

**BACK LOT SEWER STA: 0+00 - 3+25**

DATE SUBMITTED: 10.24.2018

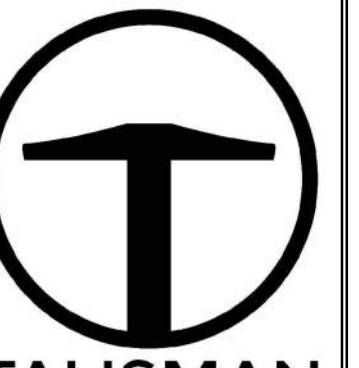
TCC JOB NUMBER: 18-200.22



SHEET NUMBER  
**520**

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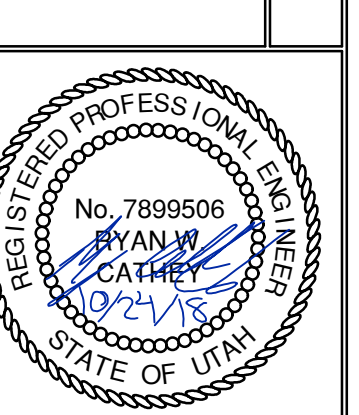




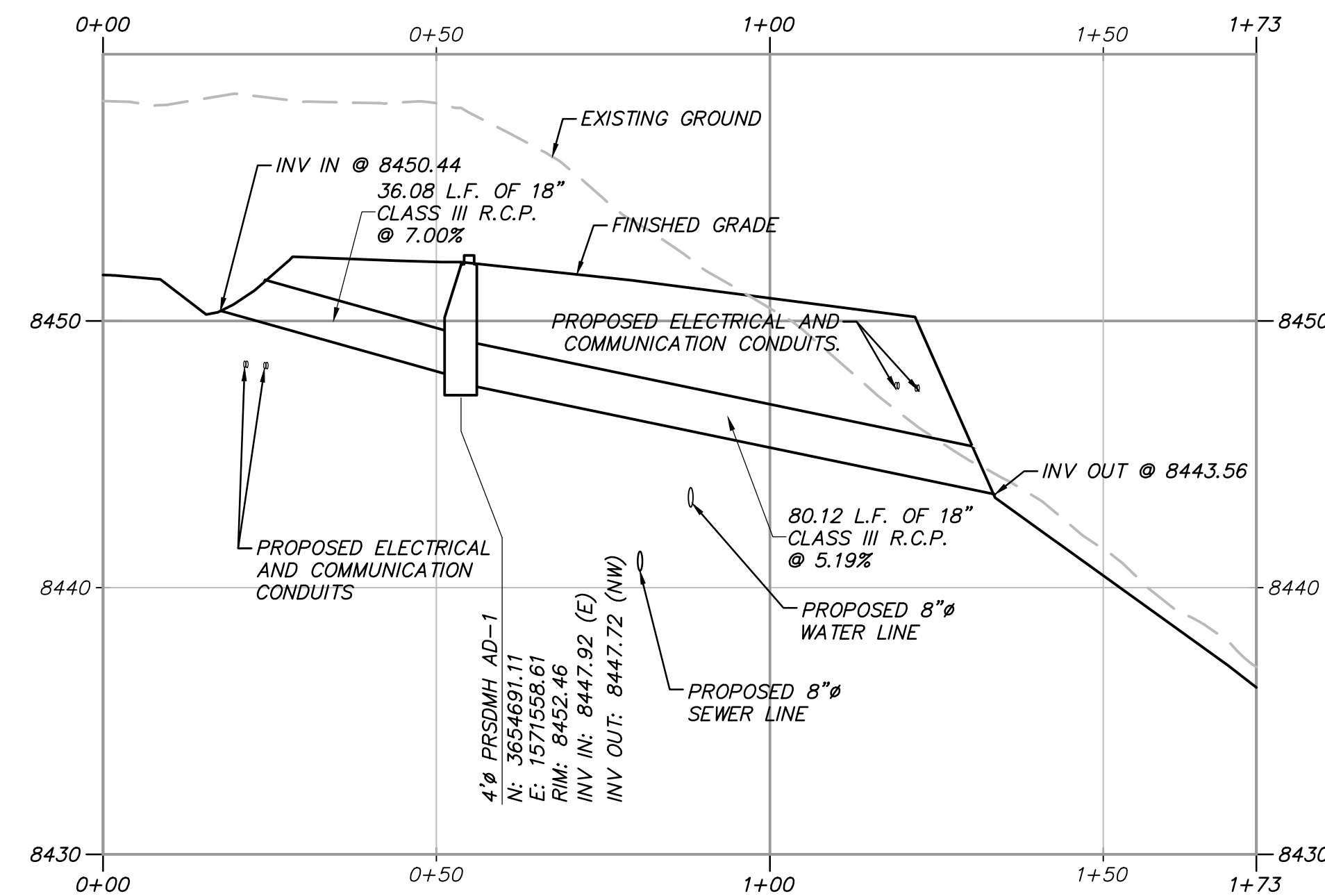
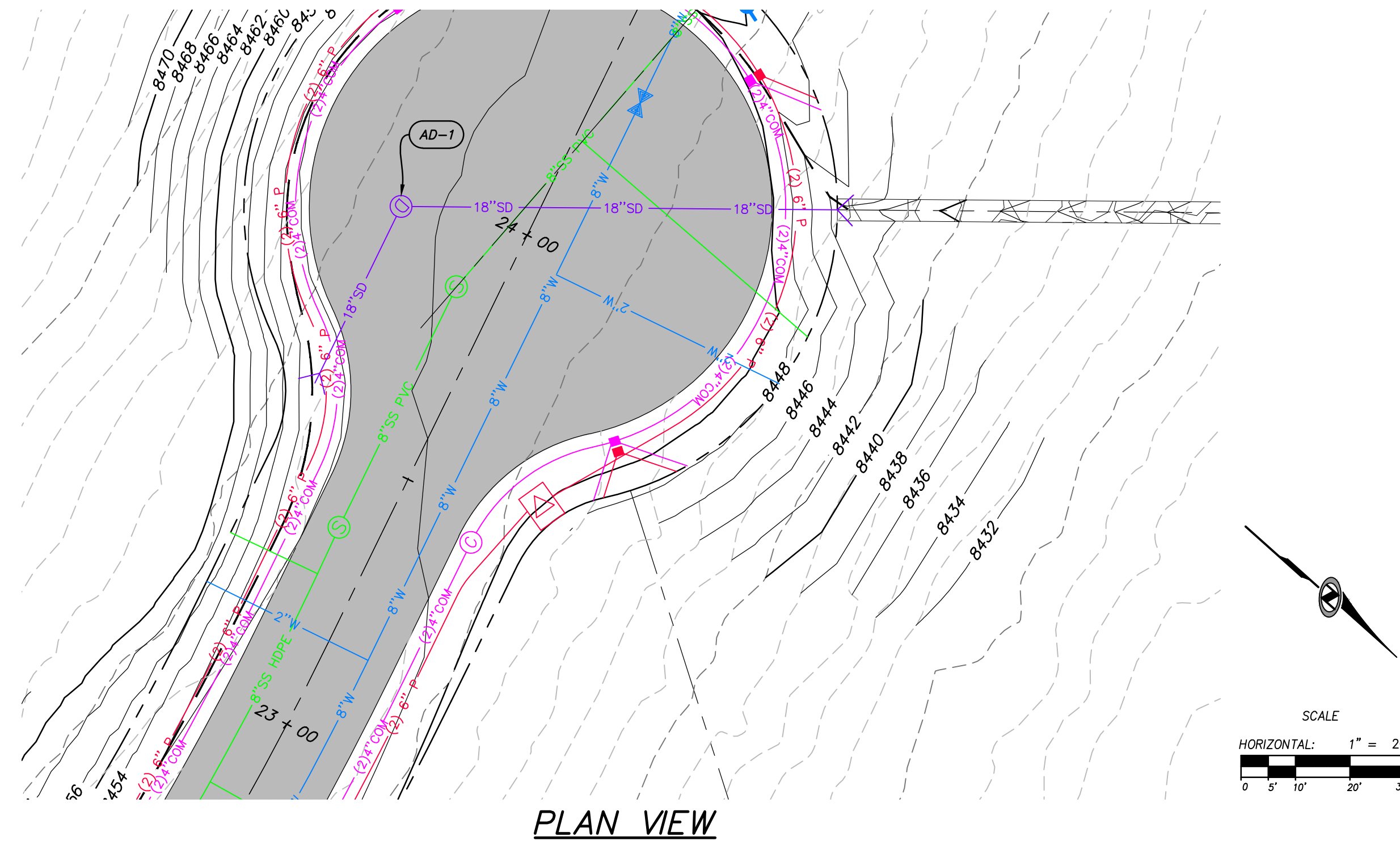
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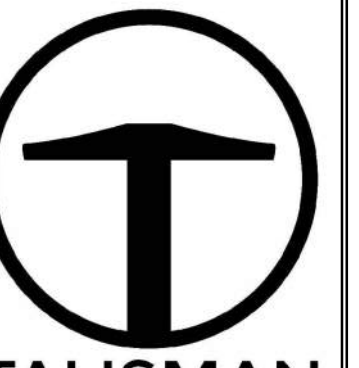
NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
CROSSING STORM DRAIN PROFILES  
TCC JOB NUMBER: 18.200.22 DATE SUBMITTED: 10.24.2018



SHEET NUMBER  
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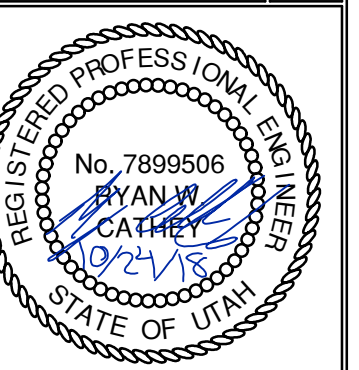




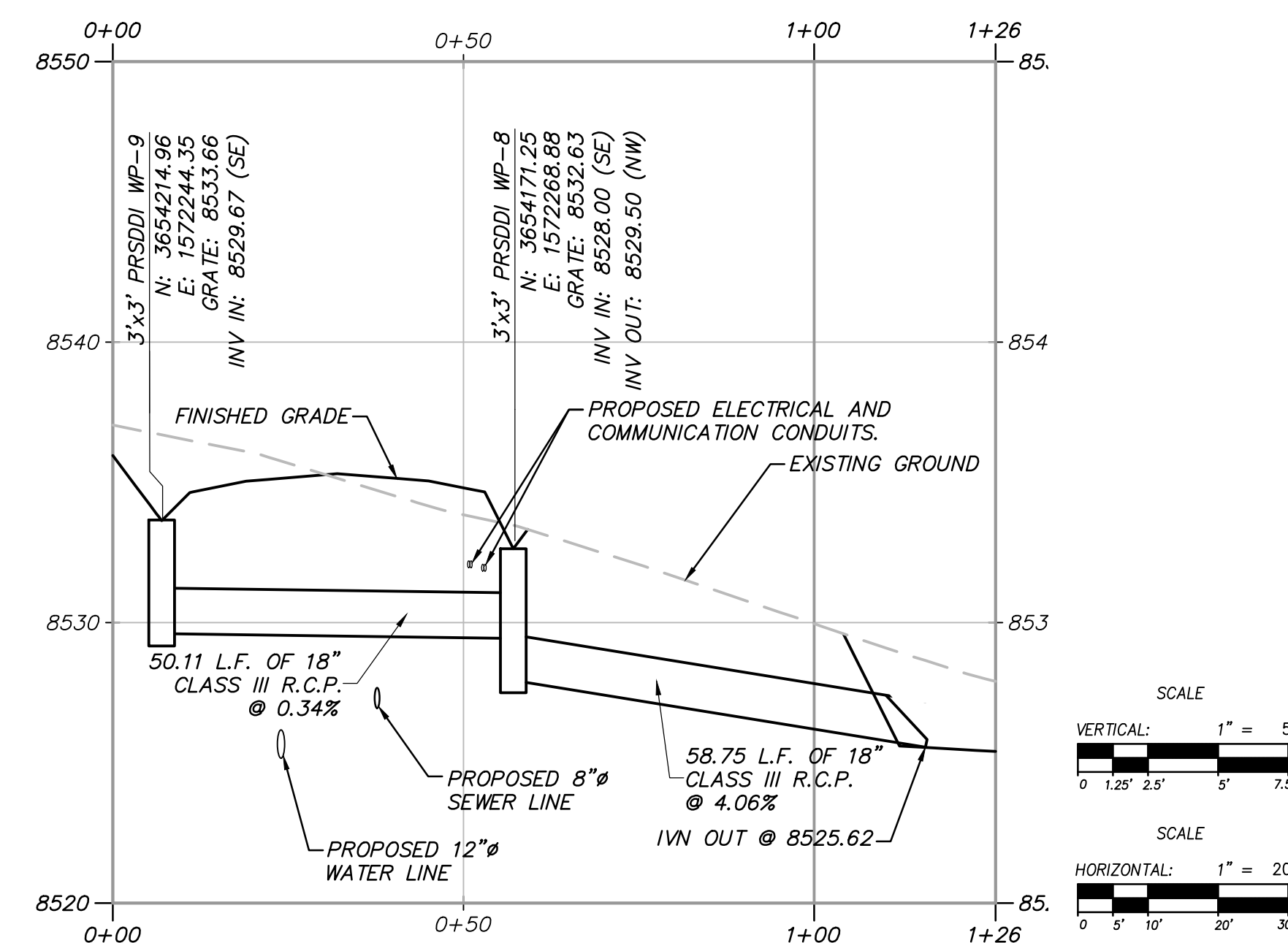
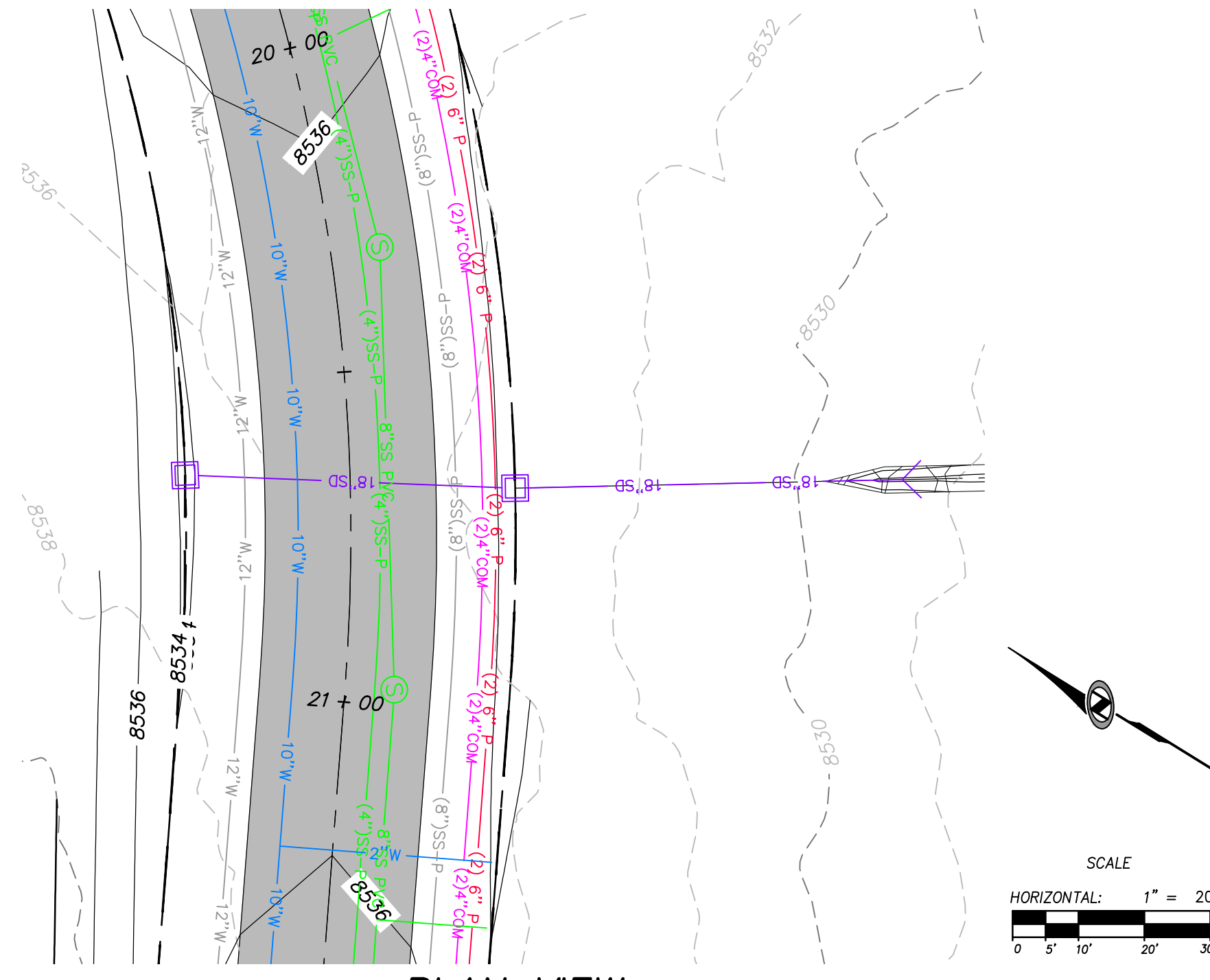
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NO.	BY	DATE	REVISIONS

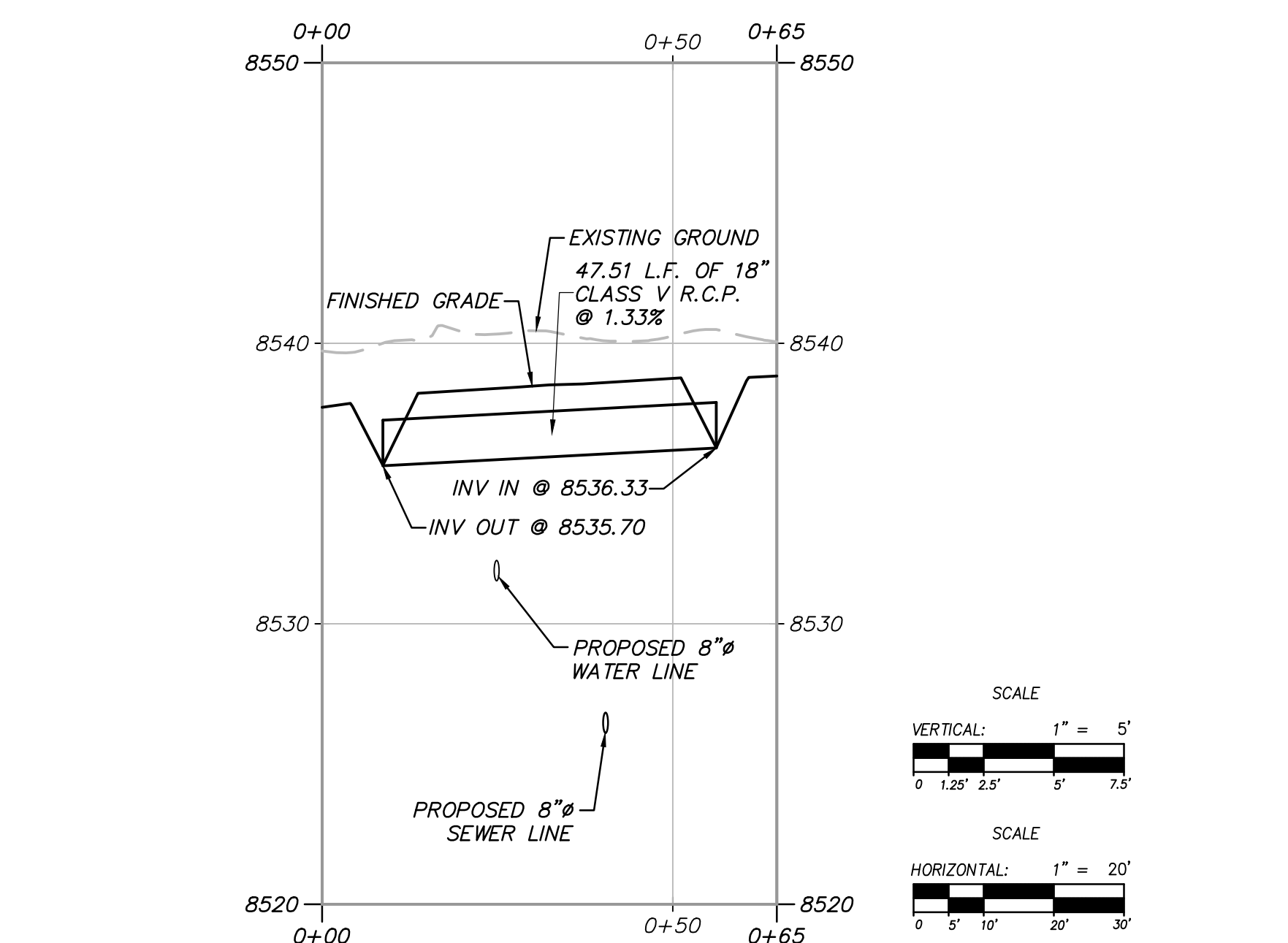
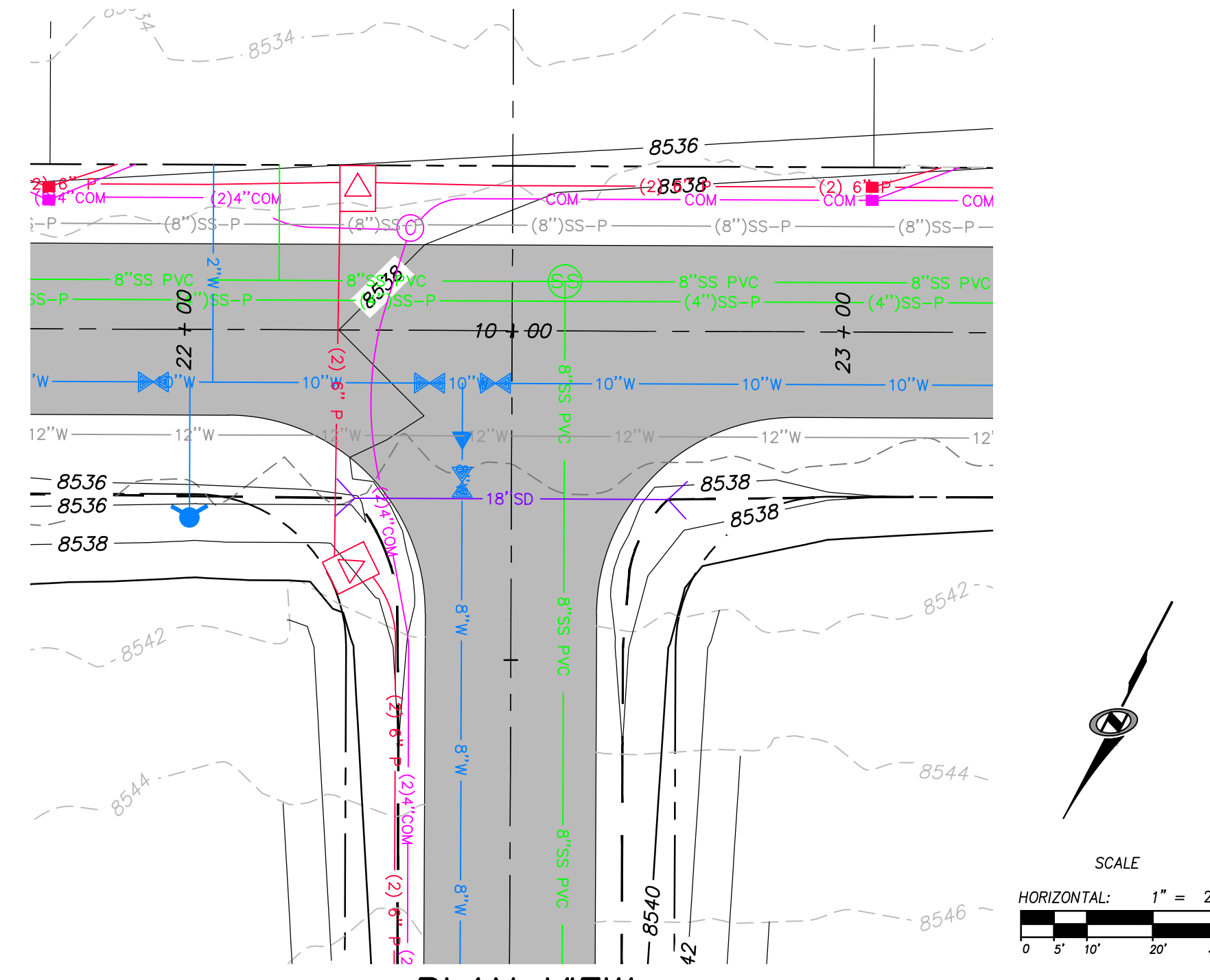
**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
CROSSING STORM DRAIN PROFILES  
DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18-200-22



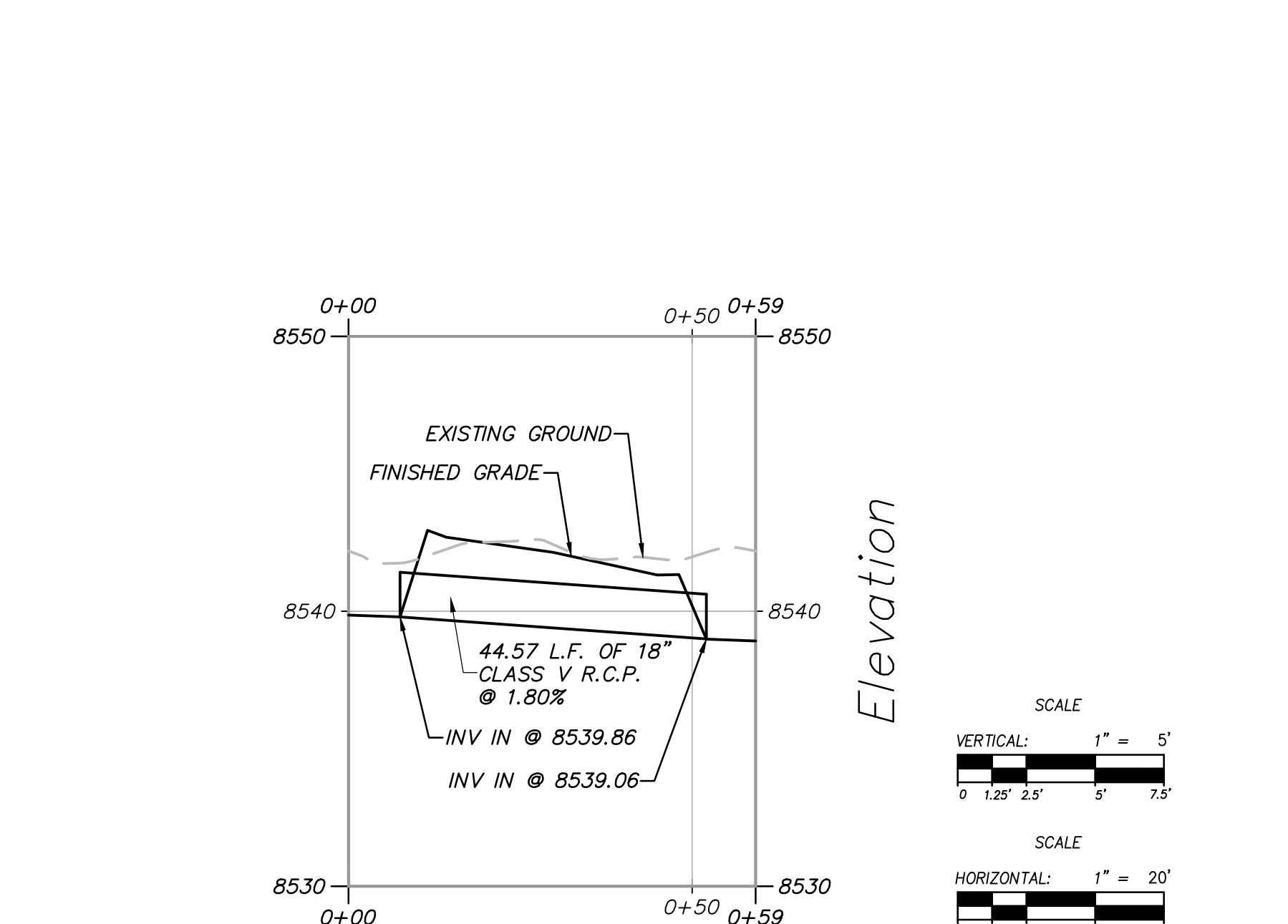
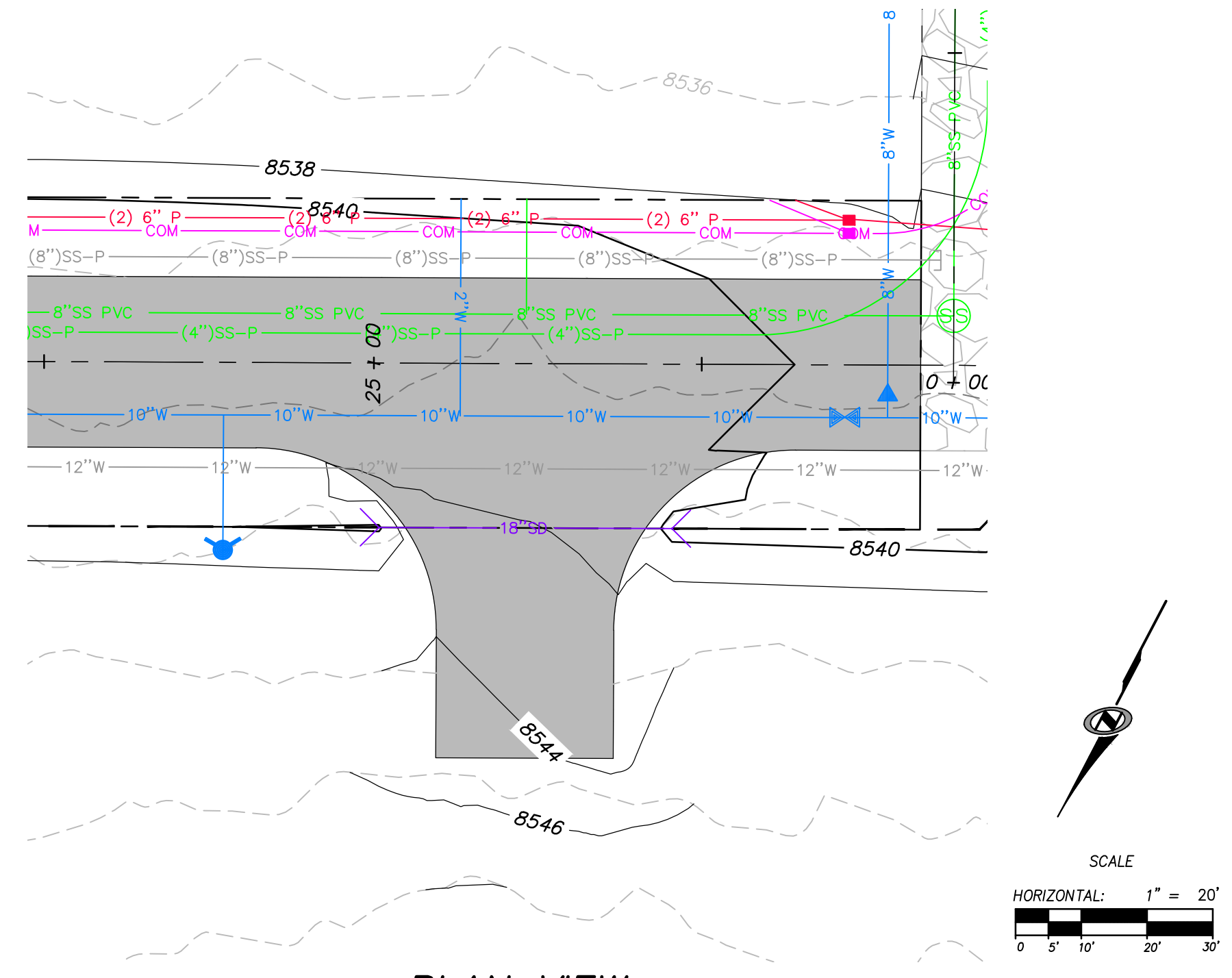
SHEET NUMBER  
**522**  
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**STORM DRAIN PROFILE C-C**



**STORM DRAIN PROFILE D-D**

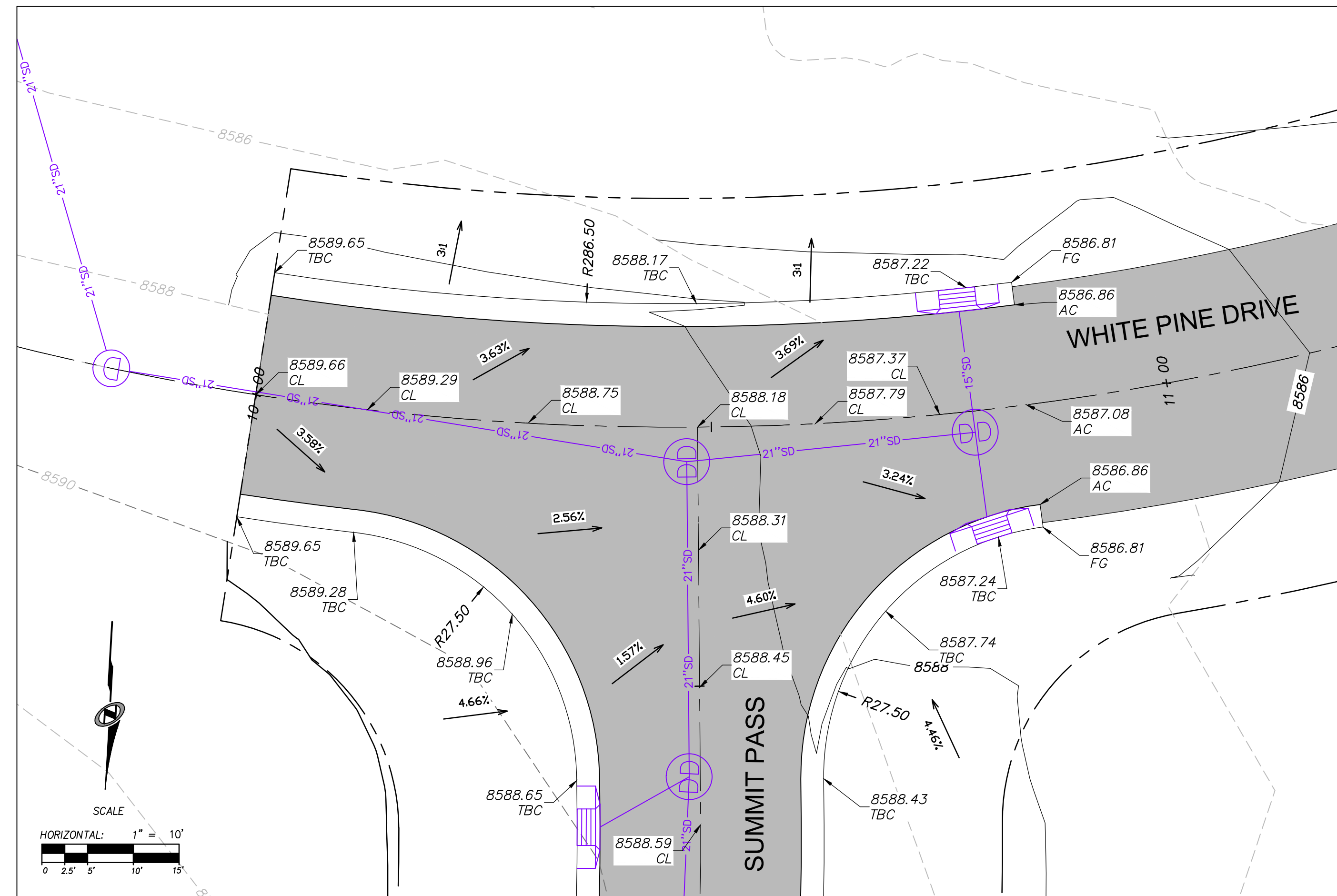


**STORM DRAIN PROFILE E-E**

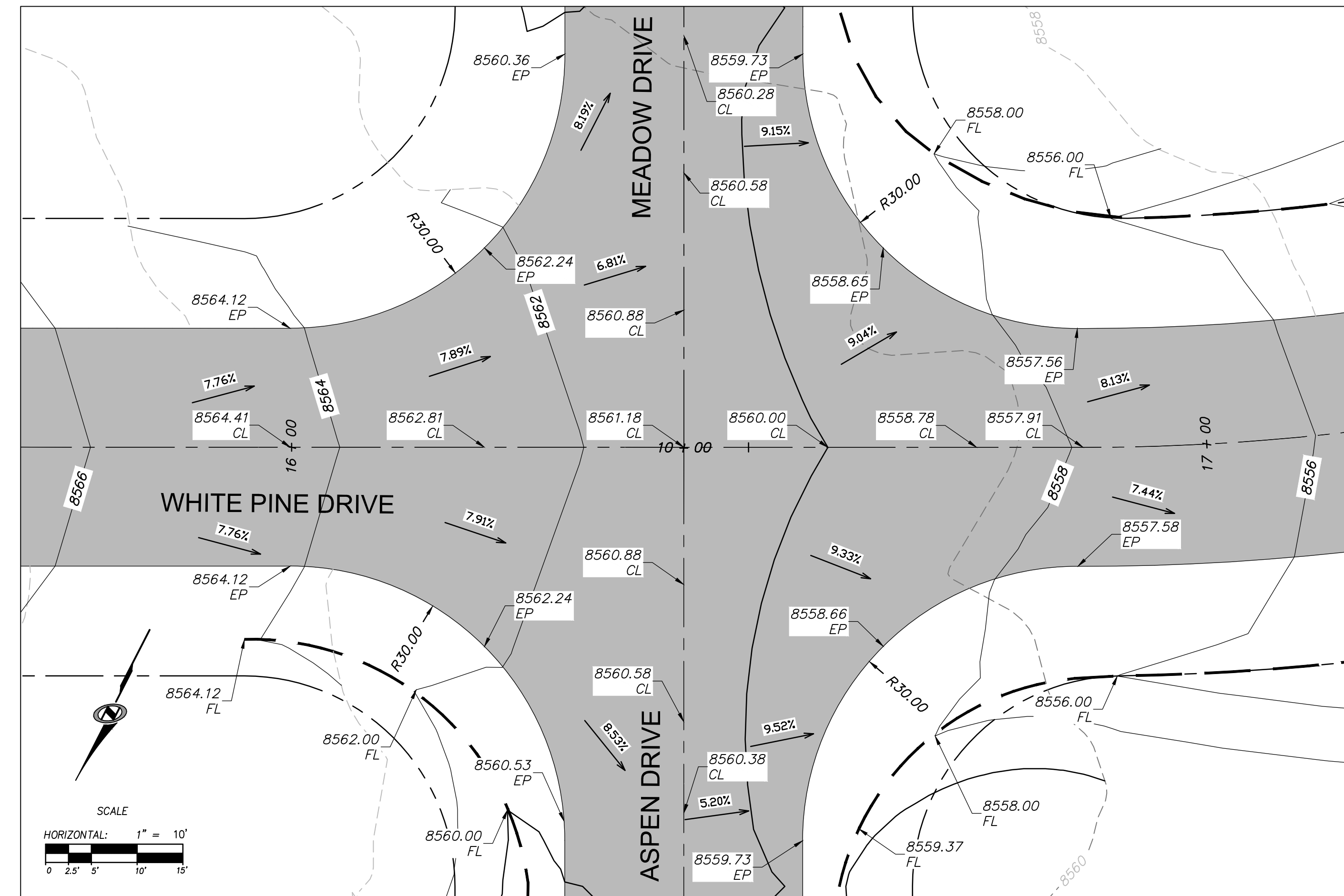


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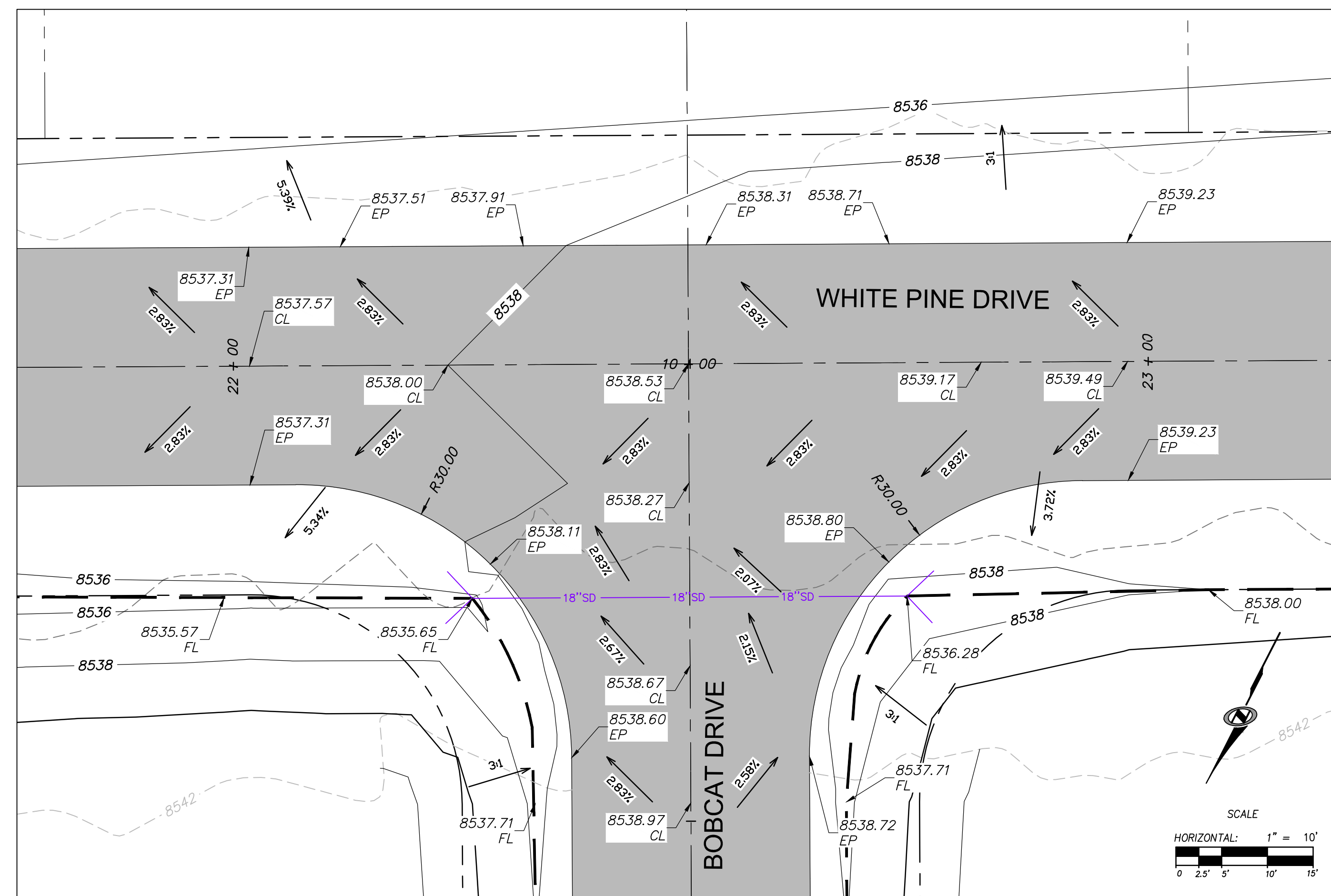
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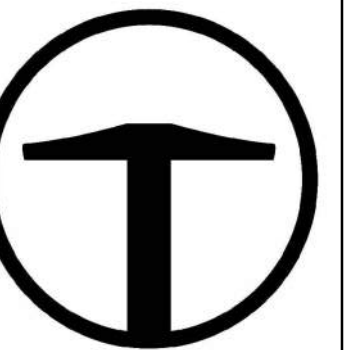
**A** SUMMIT PASS - WHITE PINE DRIVE INTERSECTION  
SCALE: 1"=10'



**B** WHITE PINE DRIVE - ASPEN DRIVE / MEADOW DRIVE INTERSECTION  
SCALE: 1"=10'



**C** WHITE PINE DRIVE - BOBCAT DRIVE INTERSECTION  
SCALE: 1"=10'

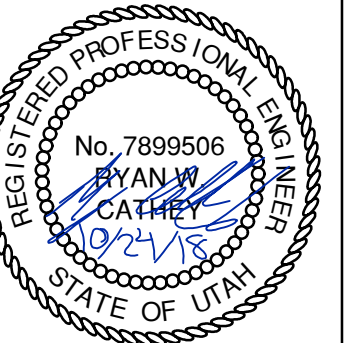


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NO.	BY	DATE	REVISIONS

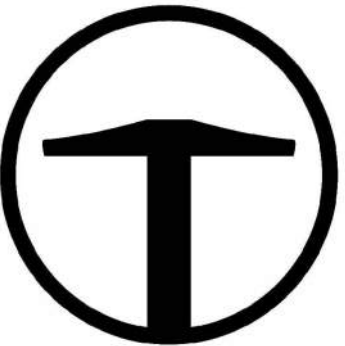
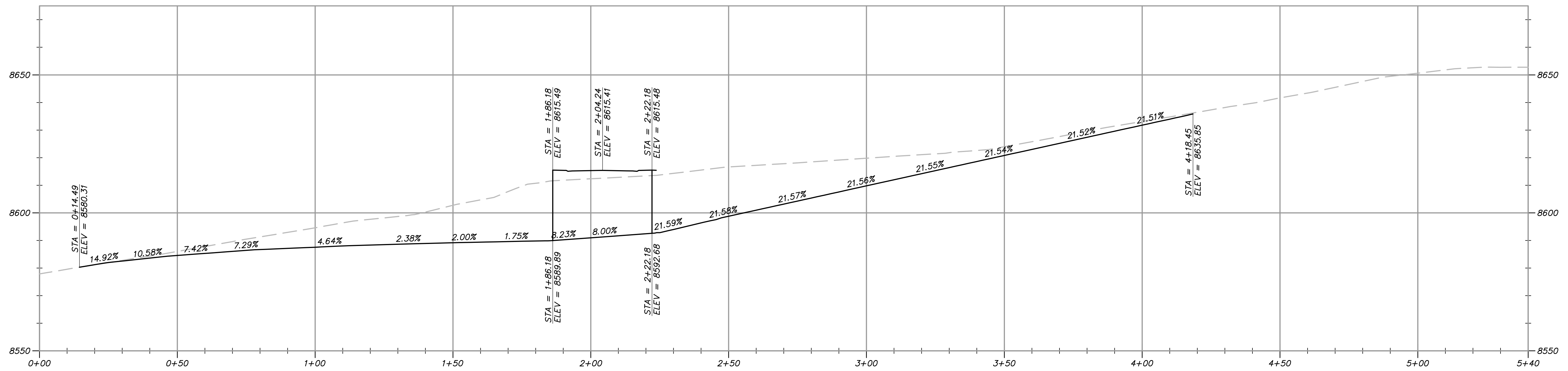
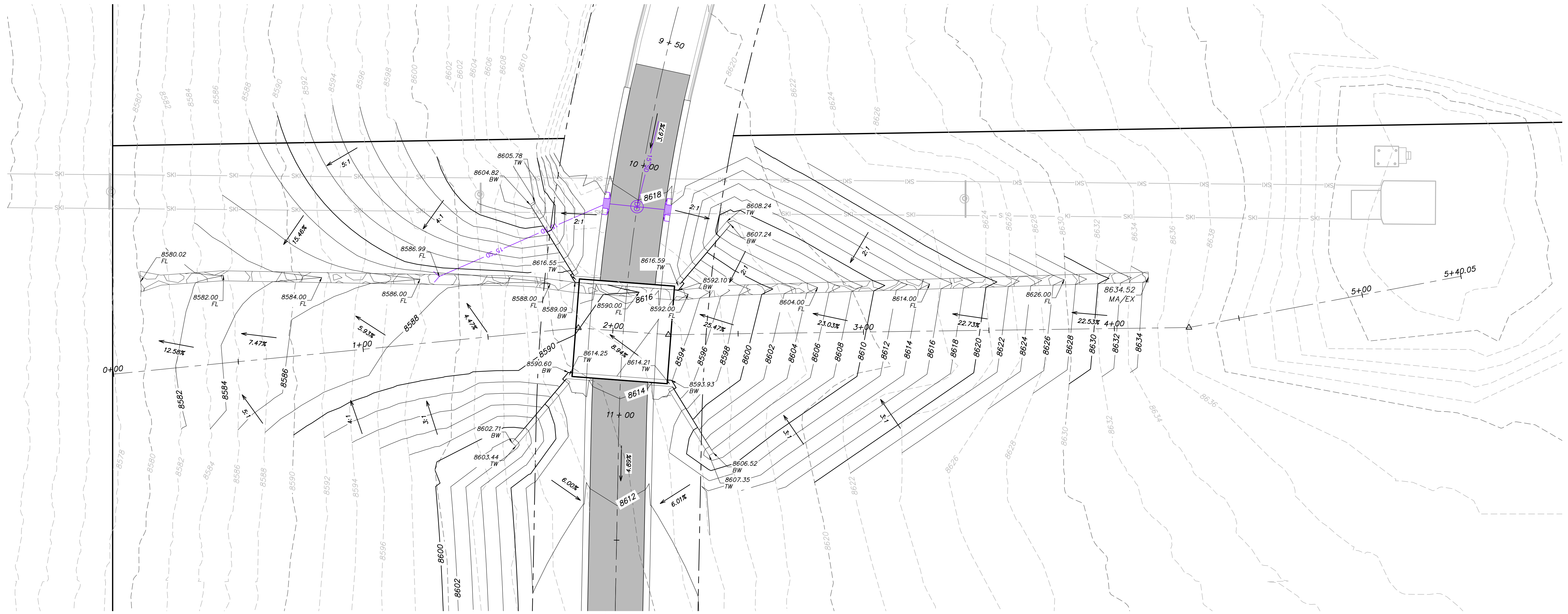
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DATE SUBMITTED: 10.24.2018

**BOBCAT RIDGE AT S.P.M.**  
PLAN AND PROFILE  
INTERSECTION GRADING DETAILS



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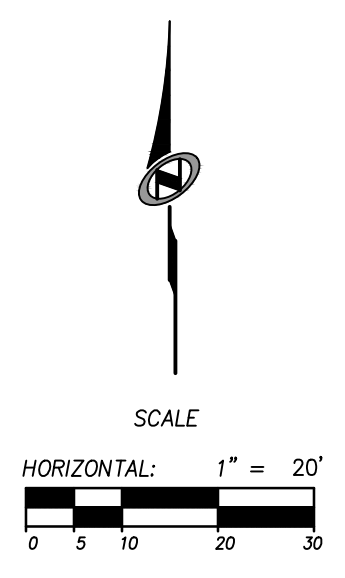
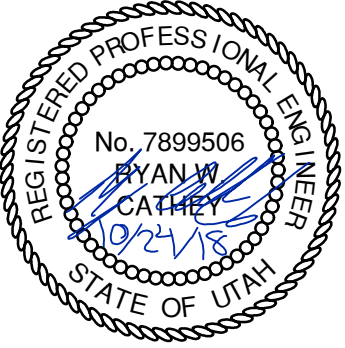
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NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 SKIER TRAIL GRADING

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22

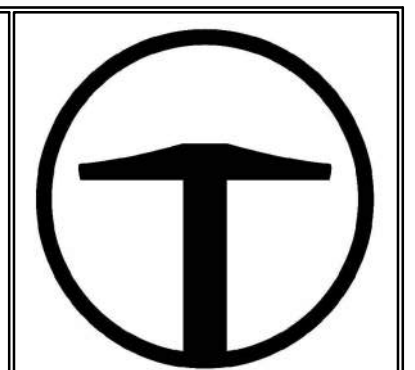


SHEET NUMBER  
**524**  
 40 OF 61



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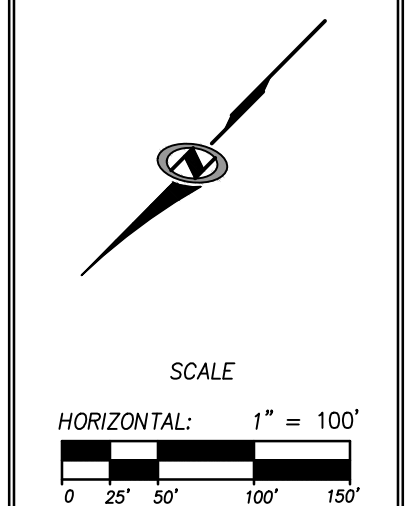
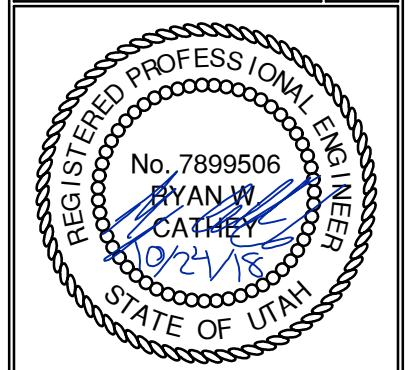
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SUITE 200  
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NO.	DATE	BY	REVISIONS

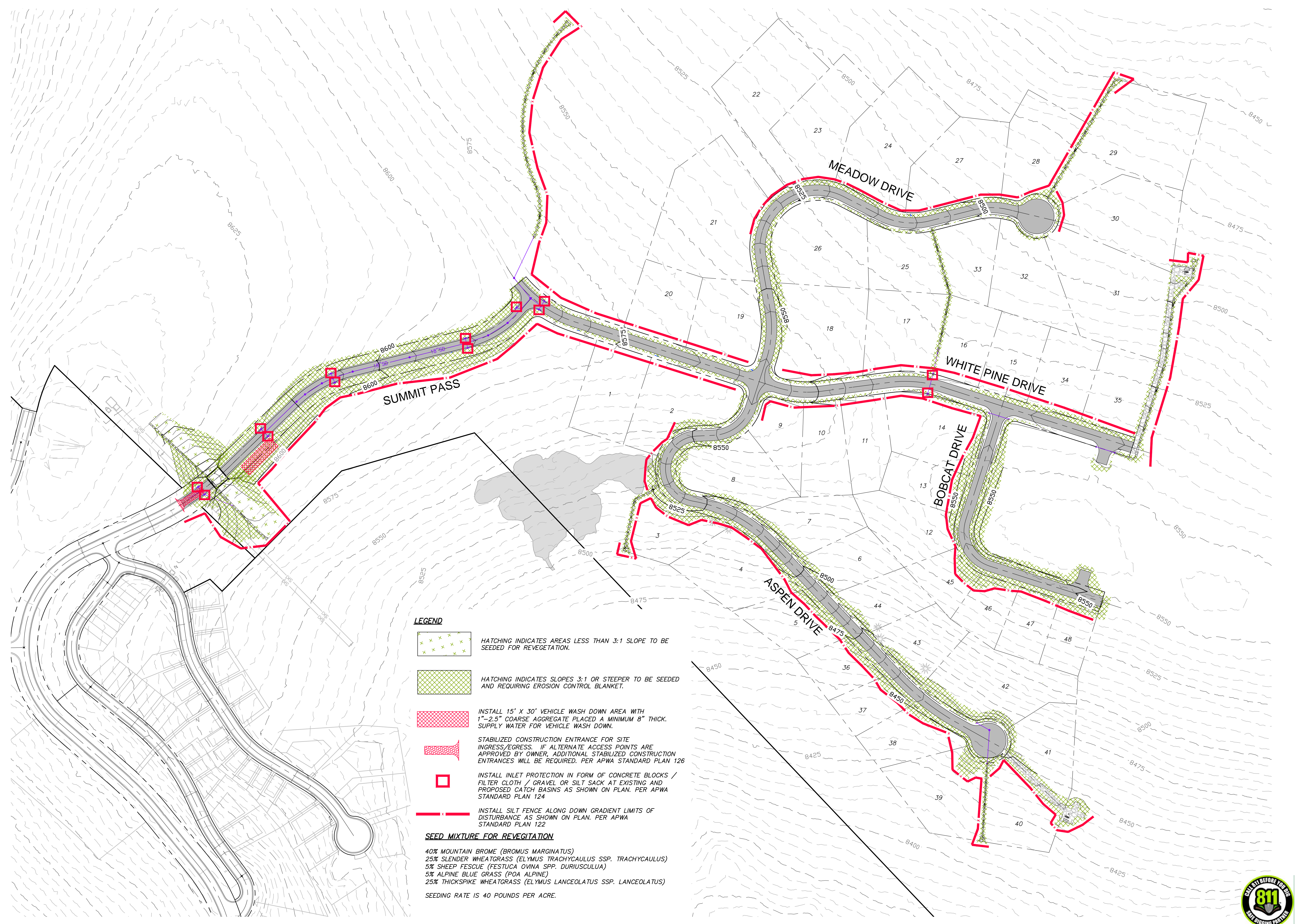
# BOBCAT RIDGE AT S.P.M. EROSION CONTROL PLAN

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22



SHEET NUMBER  
**600**  
41 OF 61



**LEGEND**

- 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. PER APWA STANDARD PLAN 126
- INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN. PER APWA STANDARD PLAN 124
- INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN. PER APWA STANDARD PLAN 122

**SEED MIXTURE FOR REVEGETATION**

- 40% MOUNTAIN BROME (*BROMUS MARGINATUS*)
- 25% SLENDER WHEATGRASS (*ELYMUS TRACHYCAULUS* SPP. *TRACHYCAULUS*)
- 5% SHEEP FESCUE (*FESTUCA OVINA* SPP. *DURIUSCULUA*)
- 5% ALPINE BLUE GRASS (*POA ALPINE*)
- 25% THICKSPIKE WHEATGRASS (*ELYMUS LANCEOLATUS* SPP. *LANCEOLATUS*)

SEEDING RATE IS 40 POUNDS PER ACRE.



Silt fence

- 1. GENERAL
A. Description. A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched.
B. Application. To intercept sediment from disturbed areas of limited extent.
C. Perimeter Control: Place barrier at down gradient limits of disturbance.
D. Sediment Barrier: Place barrier at toe of slope or soil stockpile.
E. Protection of Existing Waterways: Place barrier at top of stream bank.
F. Inlet Protection.
2. PRODUCTS
A. Fabric. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester, or polyethylene yarn.
3. EXECUTION
A. Cut the fabric on site to desired width, unroll, and drape over the barrier.

6

Inlet protection - gravel sock

- 1. GENERAL
A. Description. Placement of gravel sock on grade.
1) Upstream of, or in front of storm drain inlets to filter or pond water runoff.
2) At inlets in paved or unpaved areas where up gradient area is to be disturbed by construction activities.
2. PRODUCTS (Not used)
3. EXECUTION
A. On-grade inlet protection:
1) Provide on-grade inlet protection when completely blocking a storm drain inlet box would result in forcing water further downstream would cause flooding or other undesirable results.

10

Stabilized roadway entrance

- 1. GENERAL
A. Description. A temporary stabilized pad of gravel for controlling equipment and construction vehicle access to the site.
B. Application. At any site where vehicles and equipment enter the public right of way.
2. PRODUCT (Not used)
3. EXECUTION
A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
B. Compact subgrade.
C. Place filter fabric under stone if desired (recommended for entrance area that remains more than 3 months).

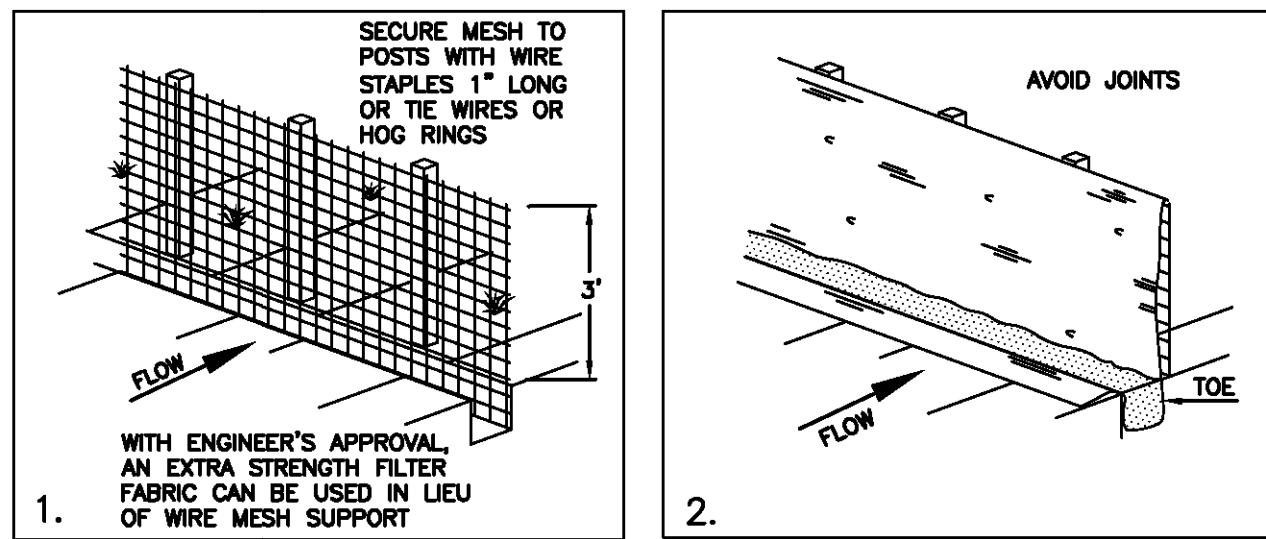
18

Curb and gutter

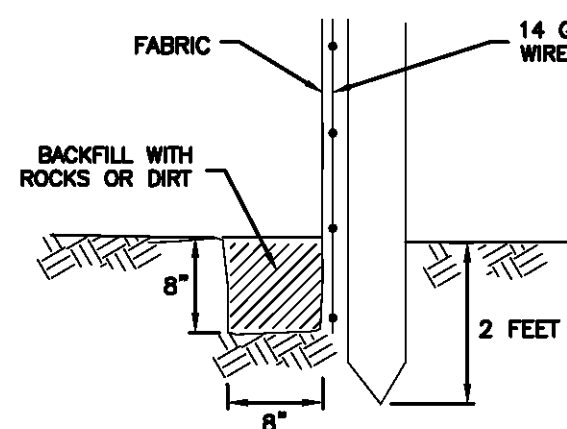
- 1. GENERAL
A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER'S discretion.
B. Additional requirements are specified in APWA Section 32 16 13.
2. PRODUCTS
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'S permission.
B. 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.
D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

28

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



INSTALLATION SEQUENCE

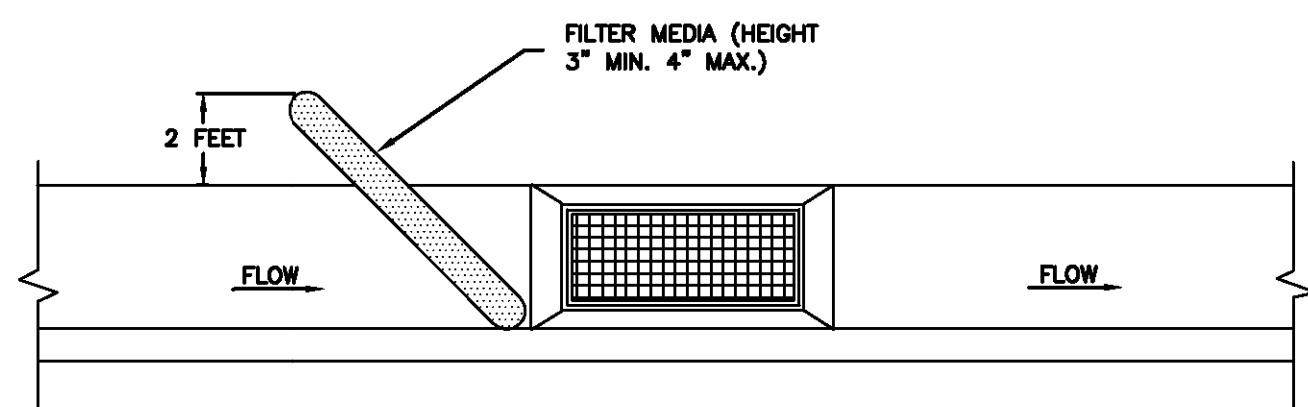


TOE DETAIL

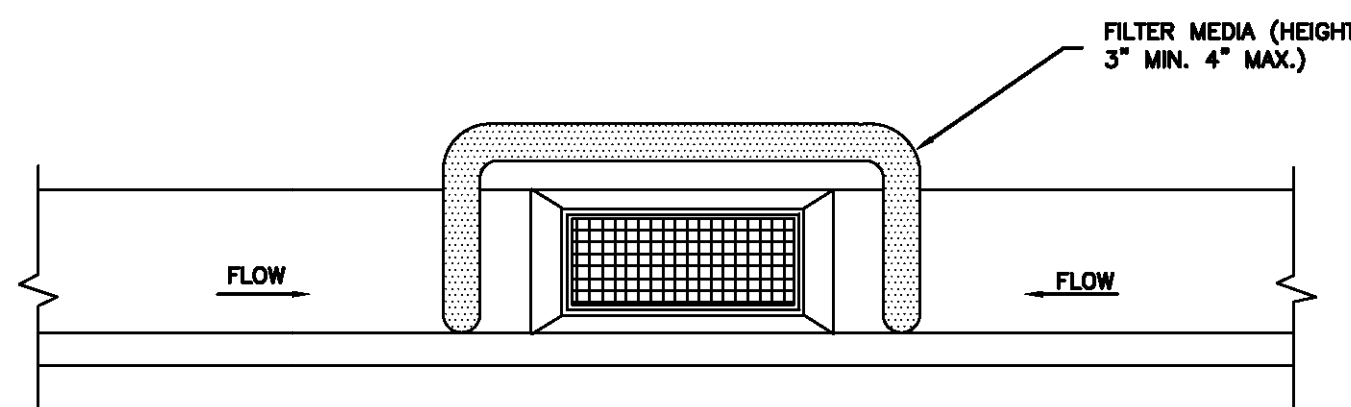
Silt fence

7

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



ON-GRADE INLET PROTECTION DETAIL

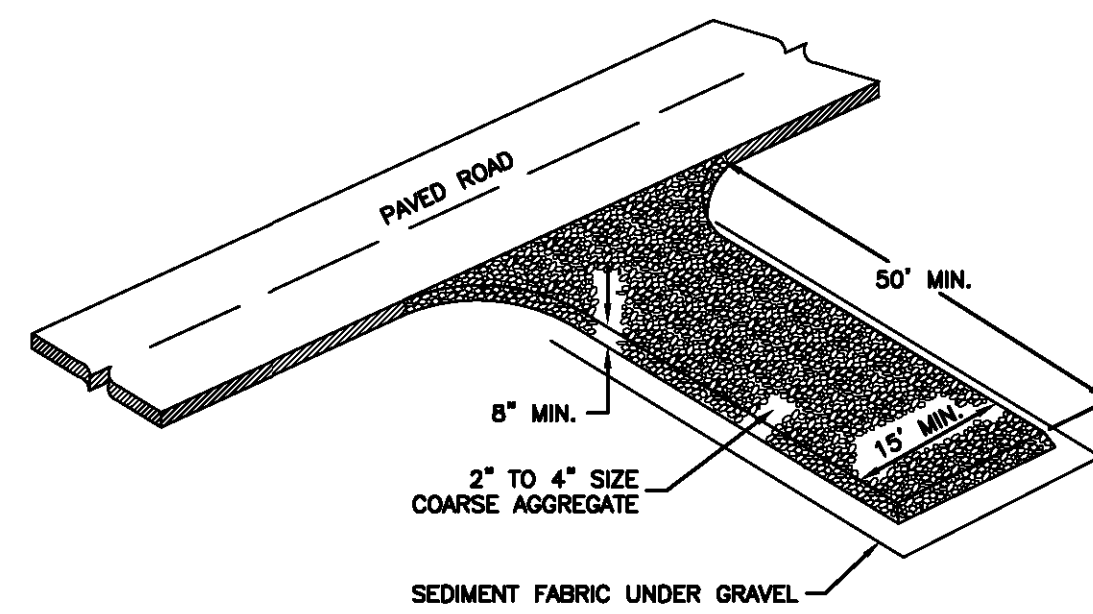


SUMP INLET PROTECTION DETAIL

Inlet protection - gravel sock

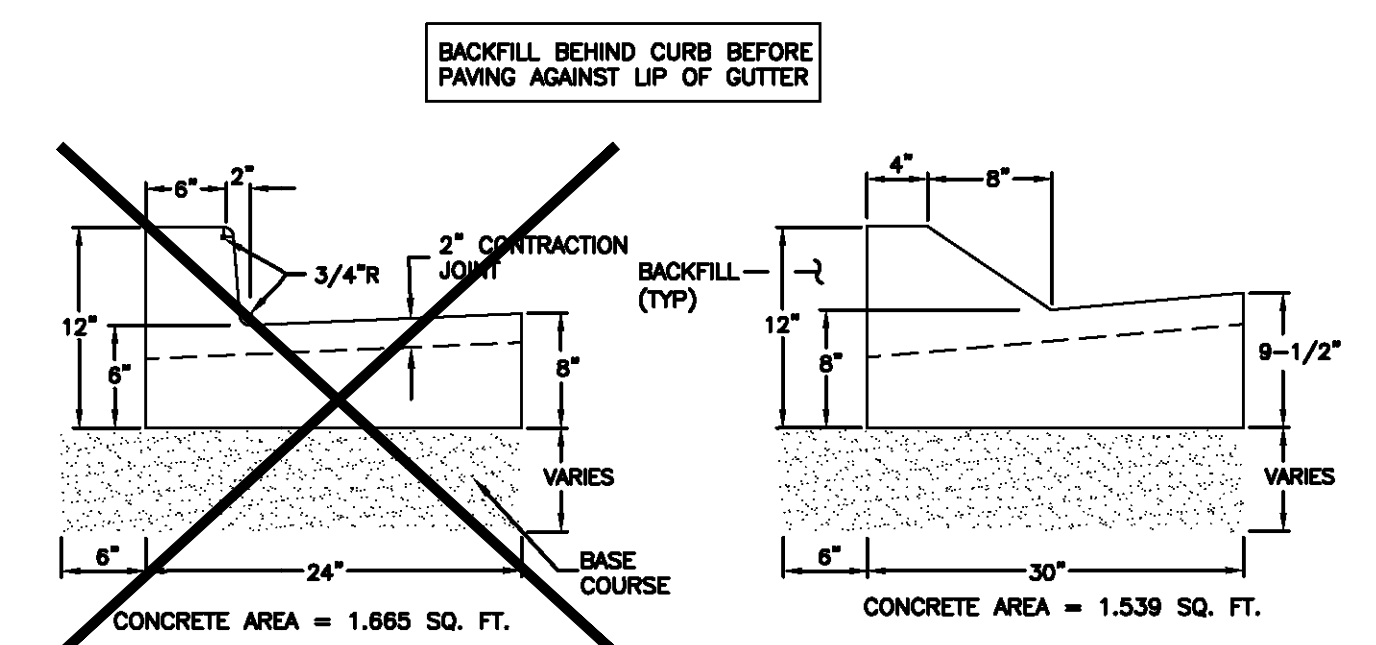
11

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



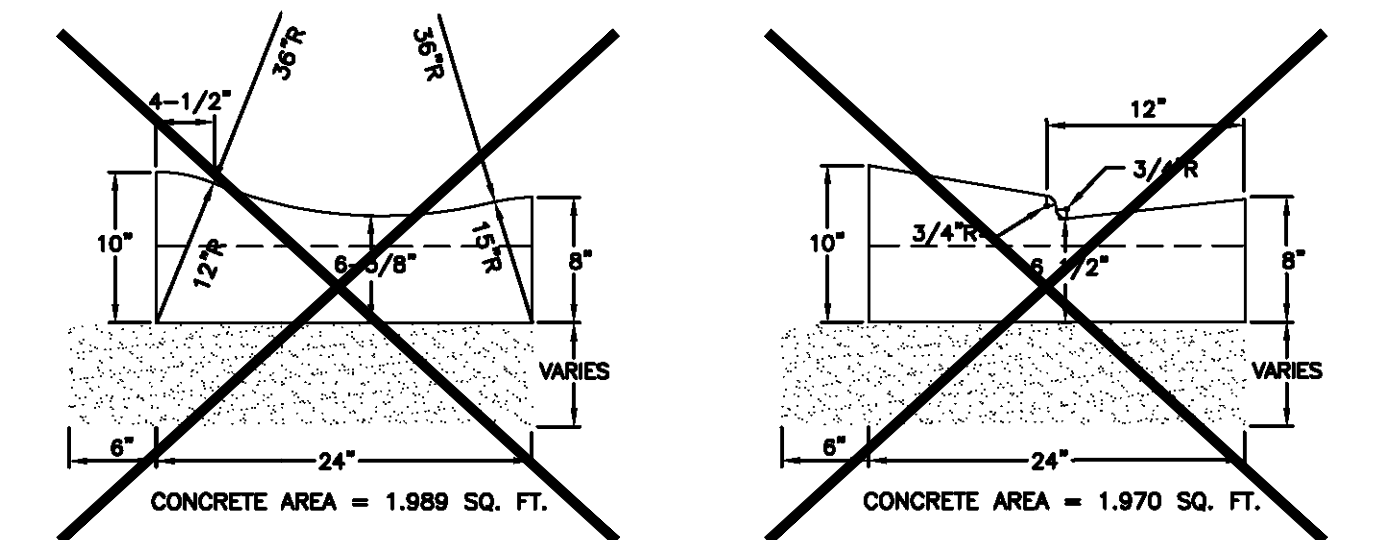
Stabilized roadway entrance

19



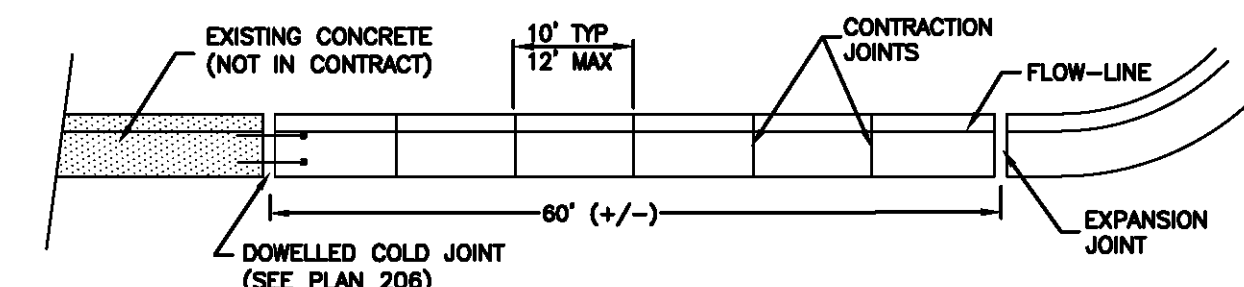
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Type F



Type G

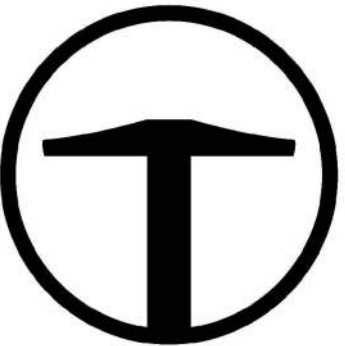
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JOINT DETAIL

Curb and gutter

29



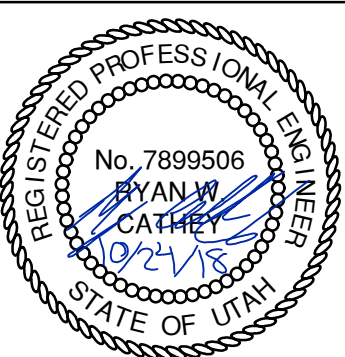
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5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

Table with columns for REVISIONS, DATE, BY, and NO.

BOBCAT RIDGE AT S.P.M. DETAILS

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22



February 2008
September 2008
February 2008
April 2011

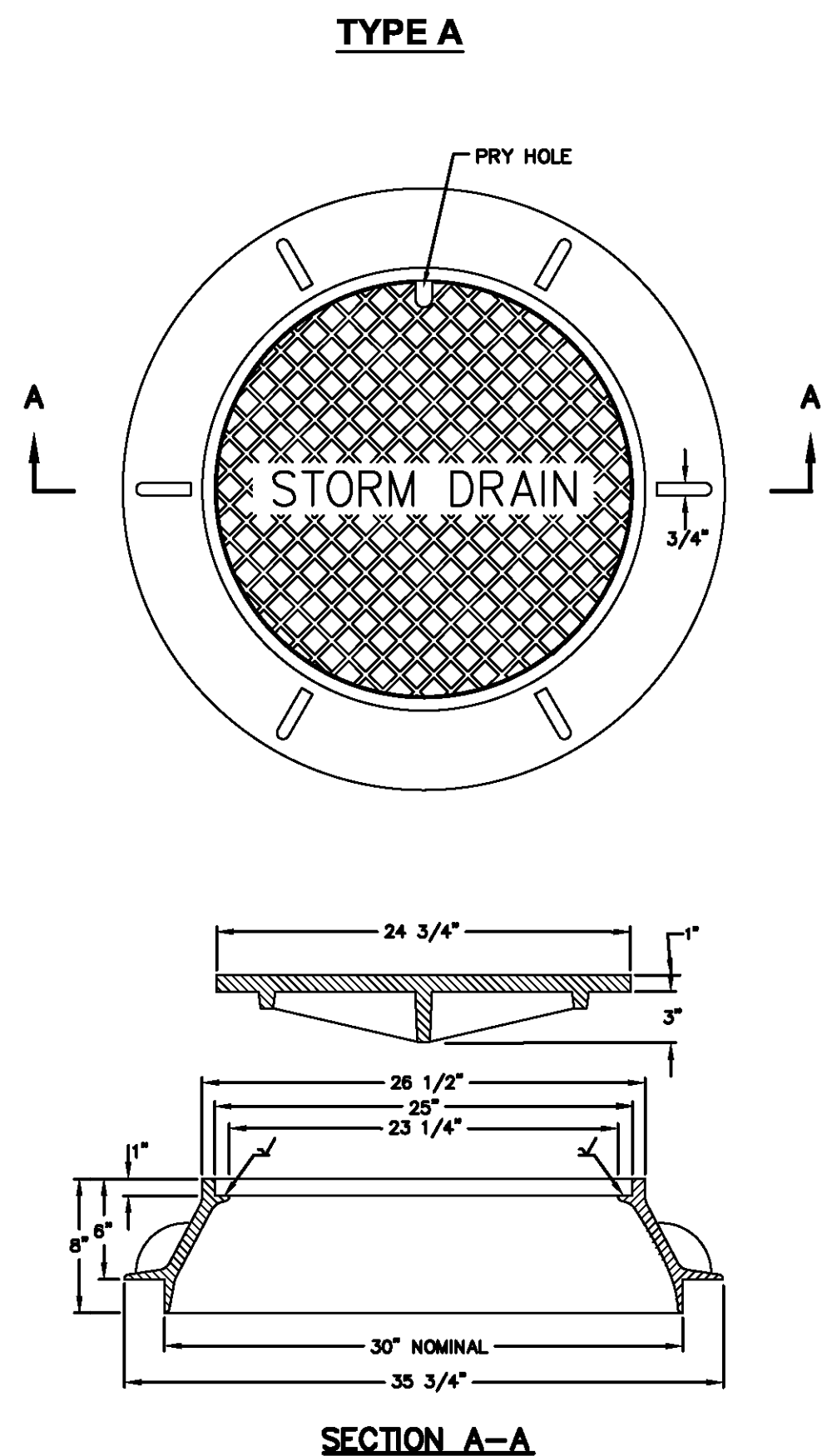


SHEET NUMBER 700

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- GENERAL**
  - The frame and cover fits.
    - Cleanout box type B in Plan 331, and
    - Precast manhole in Plan 341.
- PRODUCTS**
  - Castings: Grey iron class 35 minimum, ASTM A 48.
    - Coated with asphalt based paint or better (except on machined surfaces).
    - Cast the heat number on the frame and cover.
    - Give the frame and cover a machine finish so the cover will not rock.
    - √ designates a machine finished surface.
    - Cast the words "STORM DRAIN" on the cover in upper case flush with the surface finish.
- EXECUTION**
  - Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

132

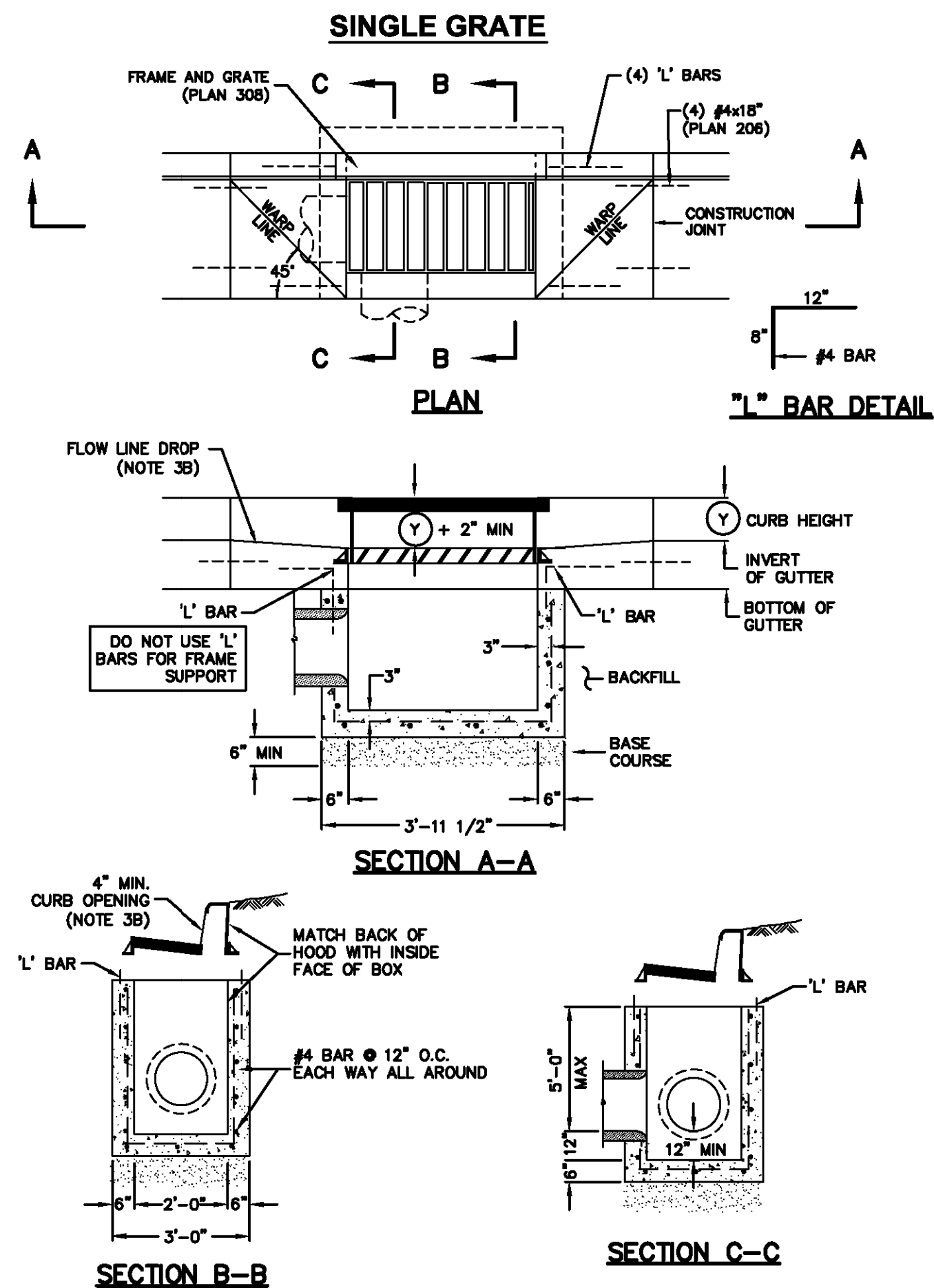


30" Frame and cover

133

- GENERAL**
  - 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.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
- EXECUTION**
  - 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.
  - 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.
  - Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - 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.

154

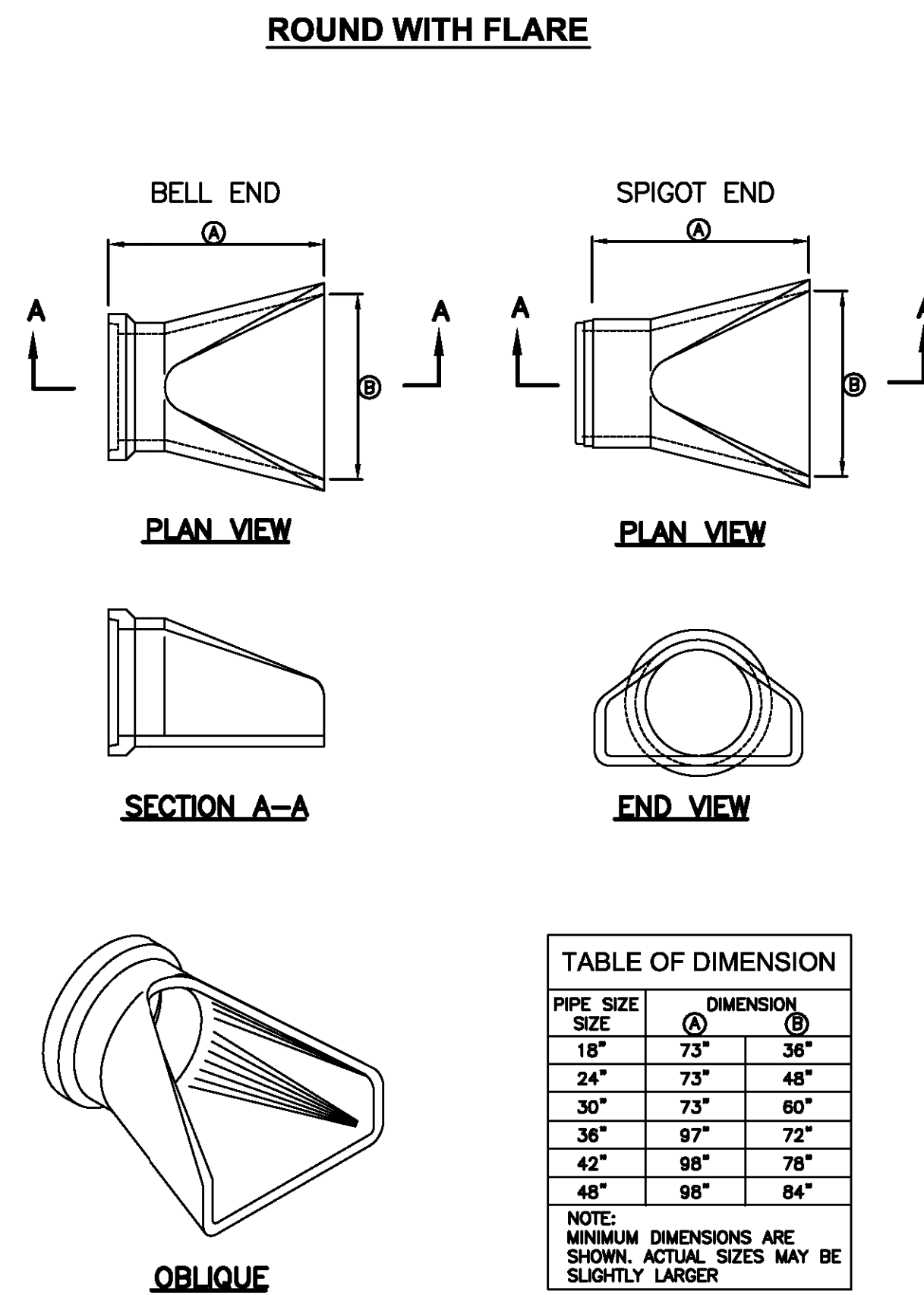


Catch basin

155

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

170

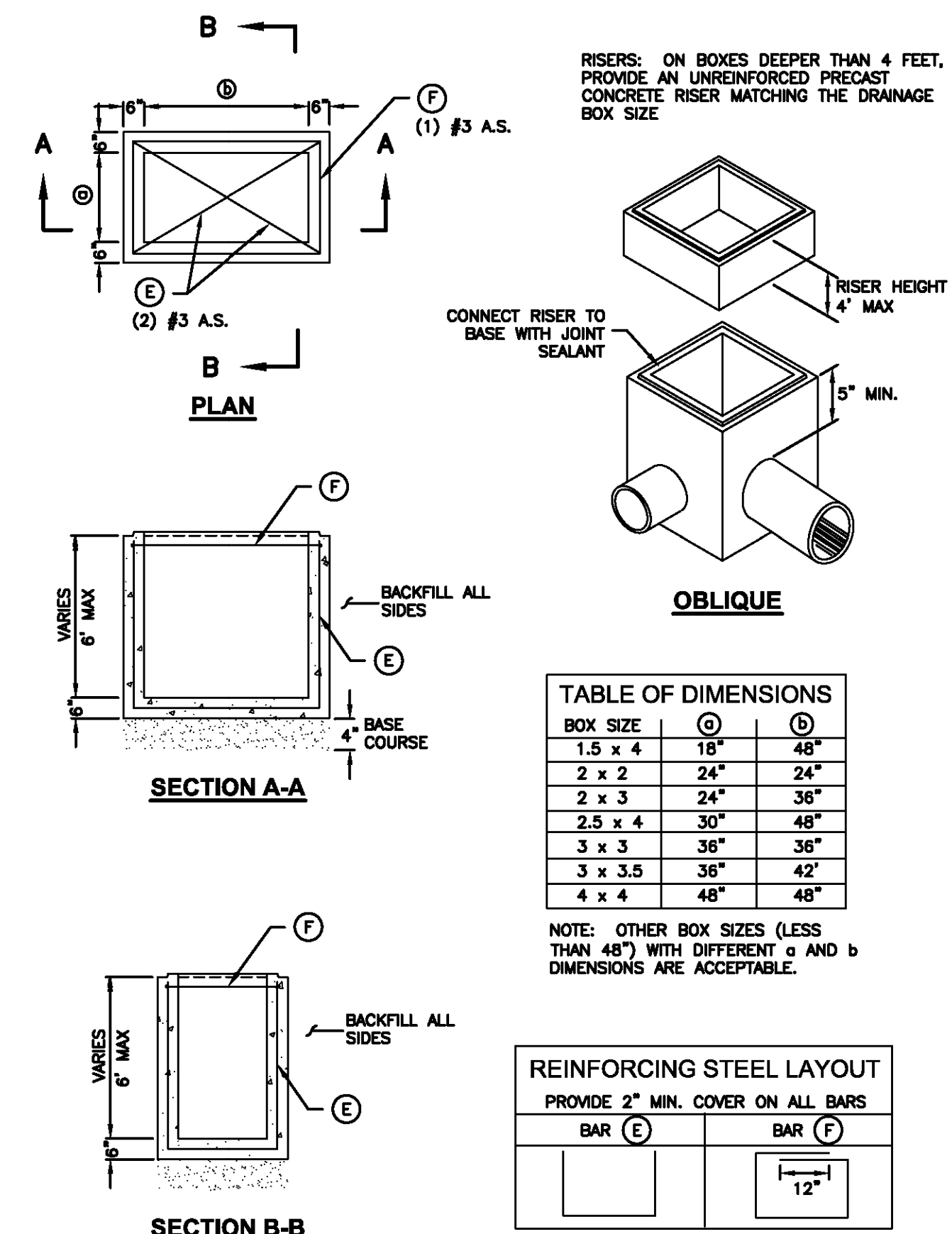


Pipe outfall

171

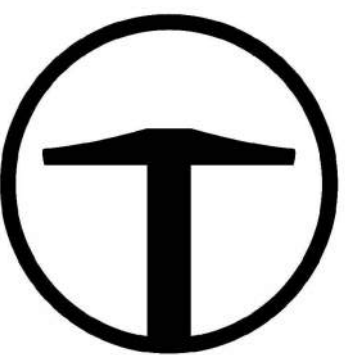
- GENERAL**
  - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
  - This drawing is acceptable where the water table elevation is less than 3 feet above the floor of the box. If elevation of water table is higher, engineering calculations and drawings must be submitted to and approved by the ENGINEER.
  - Submit bar design detail for ENGINEER's review.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Precast Concrete: Class 4000 precast, APWA Section 03 40 00.
  - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615. Coated steel is not required for small drainage structures shown on this drawing.
  - Frame and Cover (or Grate): Use the appropriate unit indicated in the Contract Documents.
  - Joint Sealant: Rubber-based, compressible.
- EXECUTION**
  - Base Course Placement: Provide 2-inches of concrete cover over reinforcing steel.
  - Lifting Points: Provide at least 2 lifting points per section that avoid interference with the reinforcing steel and that are designed according to PCI (Prestressed Concrete Institute) design handbook. Lift only from the engineered lifting points.
  - Depth: Drainage boxes and riser combinations that exceed 8-feet from finished grade to the bottom of the box requires ENGINEER's approval. Submit design calculations and shop drawings.
  - Core Holes:
    - Provide core holes that are at least 4" larger than attaching outer pipe diameter. Cut core holes at the manufacturing plant unless ENGINEER permits field core holes.
    - Center core holes to leave 2" of concrete measured horizontally from inside wall of the box to core hole. Locate core hole vertically so bottom of core hole will be at or above floor elevation with at least 5-inches of concrete directly above the core hole to the top of the box.
    - Deviations from core hole tolerances require shop drawings. Shop drawings will identify lifting point number and location.
  - Precast Top: Design precast top for AASHTO HL-93 live loads and submit rebar detail and stamped design drawings to ENGINEER. Show connection detail for frame and grate or cover.

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Precast box

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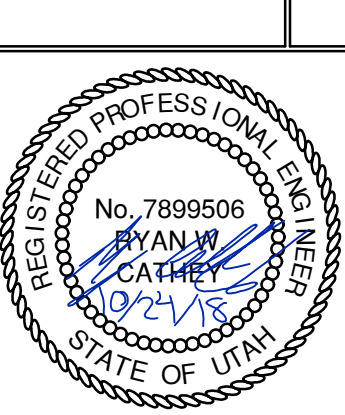
**TALISMAN**  
CIVIL CONSULTANTS  
5217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.

DETAILS

TCC JOB NUMBER: 18-200.22



September 2001

September 2010

November 2010

June 2010

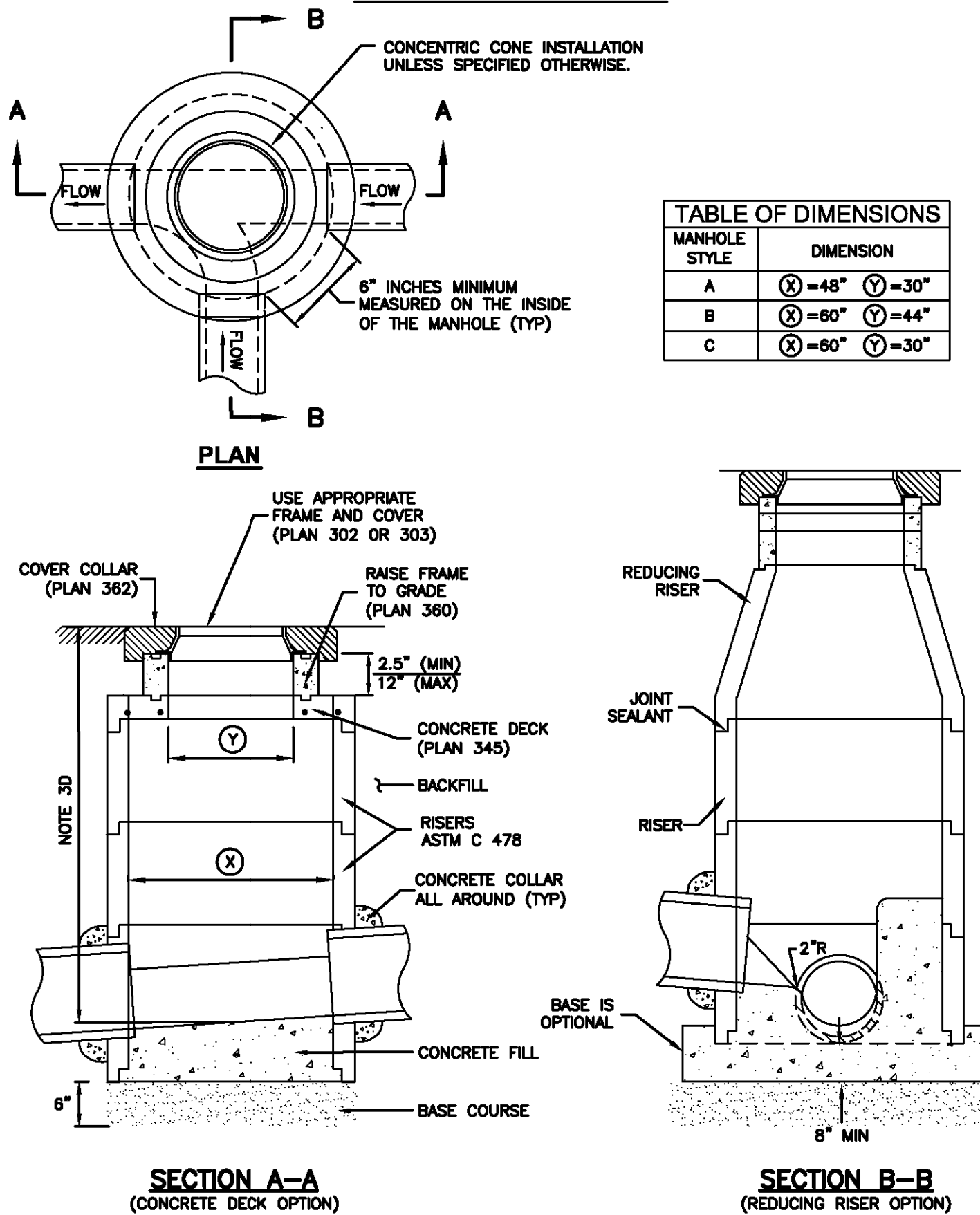


**Precast manhole**

- GENERAL**
  - 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.
  - Manhole size:
    - Diameter is 4-feet: For pipe under 12" diameter.
    - Diameter is 5-feet: For pipe 12" and larger, or when 3 or more drain pipes intersect the manhole.
  - Wall thickness:
    - Precast reinforced concrete walls 4 3/4" minimum.
    - Cast-in-place concrete to be 8 inches thick minimum.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'S permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Riser and Reducing Riser: ASTM C 478.
  - Joint Sealant: Rubber based, compressible.
  - Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
  - Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR'S choice, APWA Section 31 05 19.
- EXECUTION**
  - Foundation Stabilization: Get ENGINEER'S permission to use a sewer rock or a sewer rock in a geotextile wrap to stabilize an unstable foundation.
  - 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.
  - Invert cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
  - 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.
  - Pipe Connections: Grout around all pipe openings.
  - 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.
  - Joints: Place flexible sealant in all riser joints. Finish with grout.
  - 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.
  - Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
  - 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.

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**CAST IN PLACE BASE**



**Precast manhole**

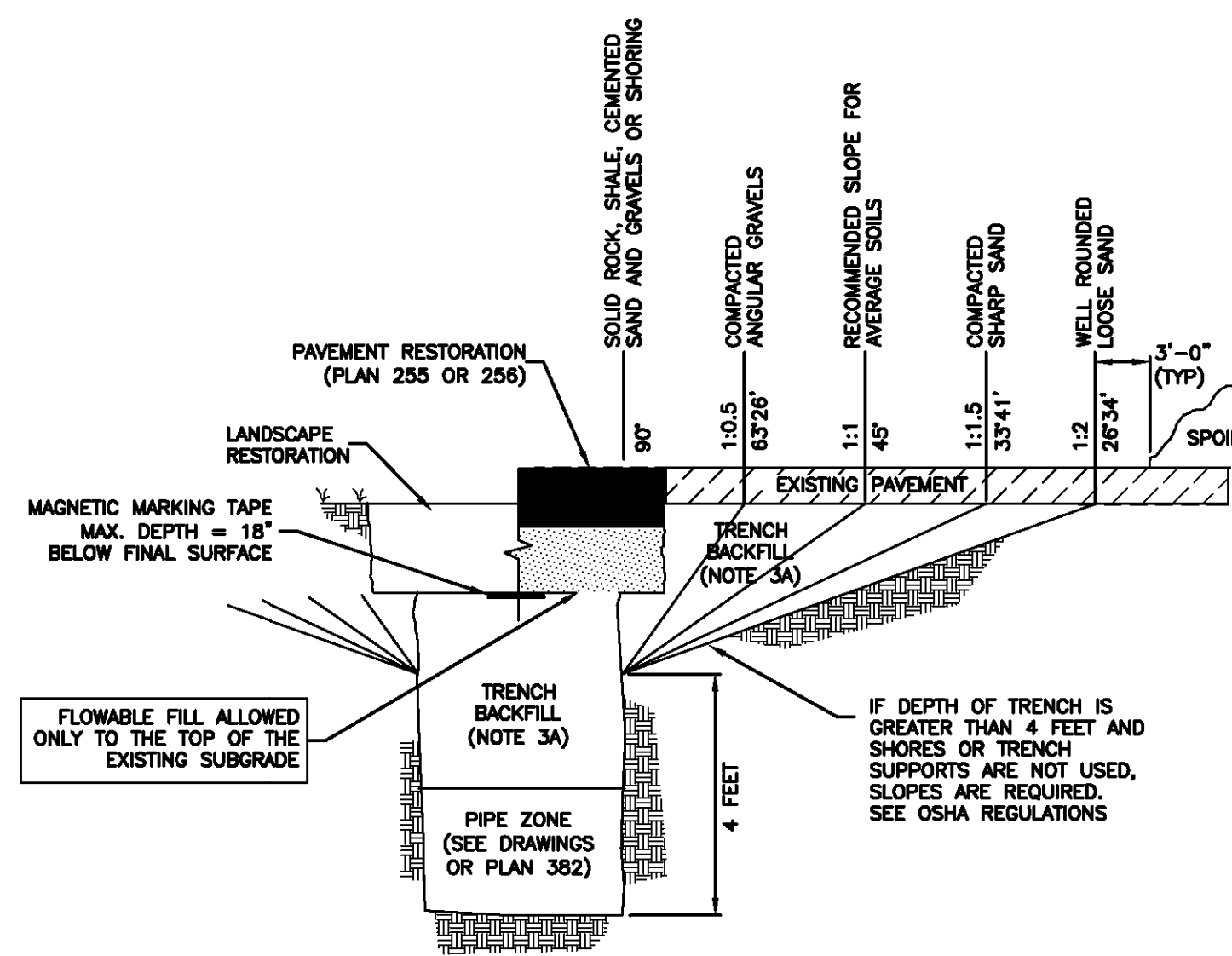
Plan 341

November 2010 187

**Trench backfill**

- GENERAL**
  - The drawing applies to backfilling the trench above the pipe zone.
- PRODUCTS**
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
  - 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.
- EXECUTION**
  - Trench Backfill:
    - DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
    - 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.
    - Water jetting is NOT allowed.
    - 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.
  - Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
  - Surface Restoration:
    - Landscape 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.
    - 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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**Trench backfill**

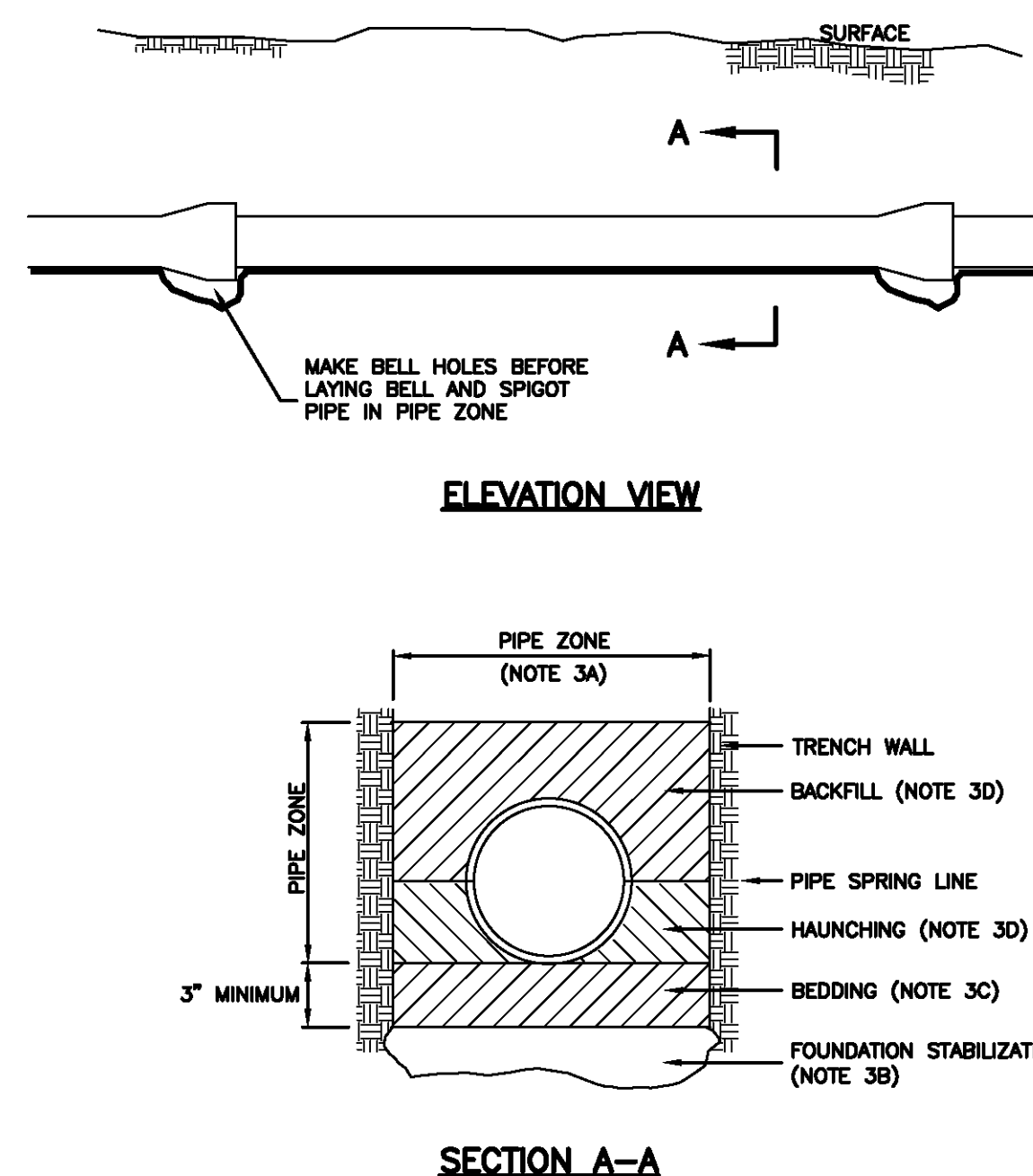
Plan 381

January 2011 203

**Pipe zone backfill**

- GENERAL**
  - 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.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'S permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: APWA Section 03 30 04.
  - 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.
  - Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR'S choice, APWA Section 31 05 19.
- EXECUTION**
  - 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.
  - 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.
  - Base Course:
    - Furnish untreated base course material unless specified otherwise by pipe manufacturer.
    - 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.
    - When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
  - Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
    - 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.
    - 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.
  - Flowable Fill (when required and if allowed by pipe manufacturer):
    - Place the controlled low strength material, APWA Section 31 05 15.
    - Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
    - Reset pipe to line and grade if pipe "floats" out of position.

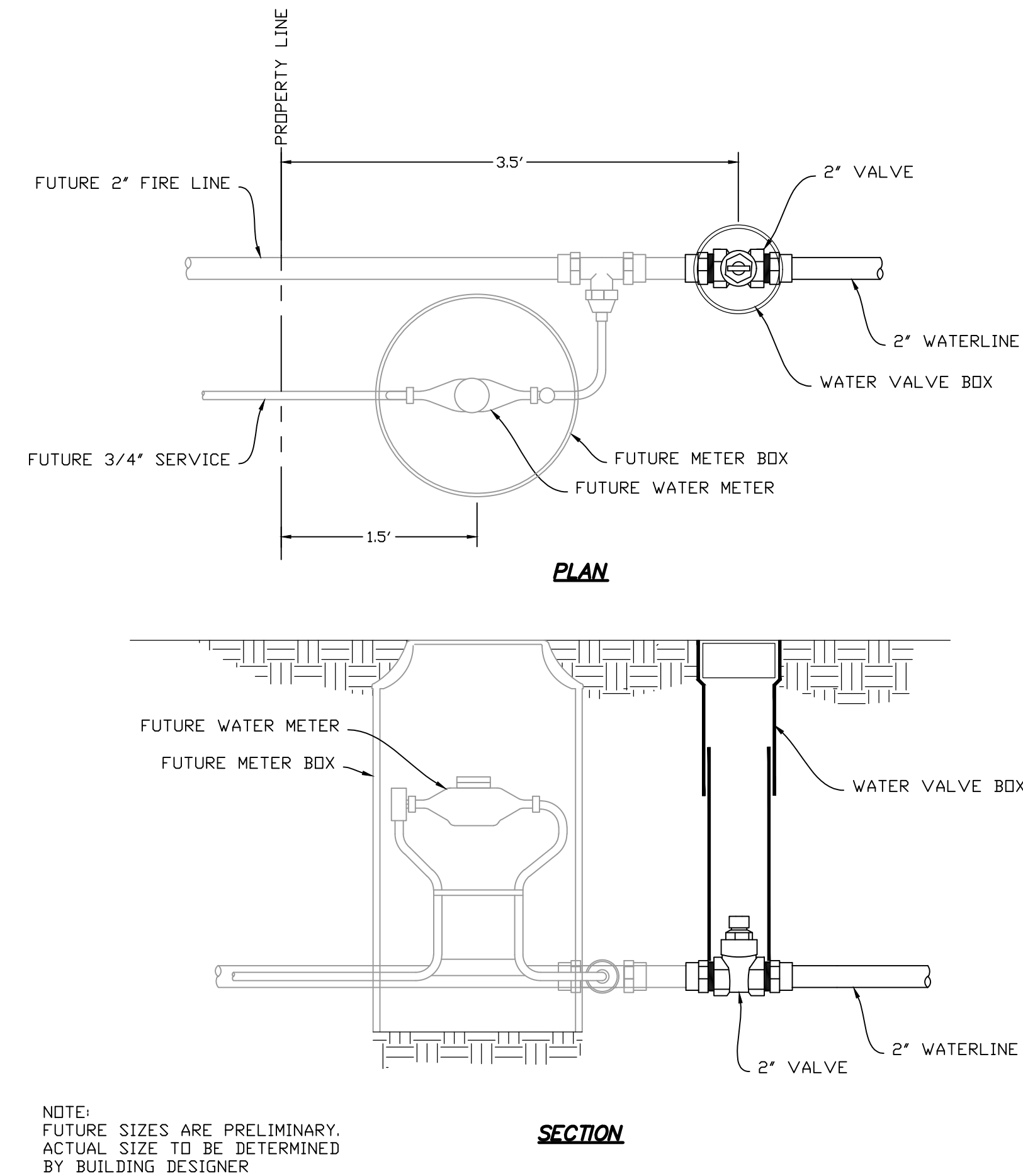
204



**Pipe zone backfill**

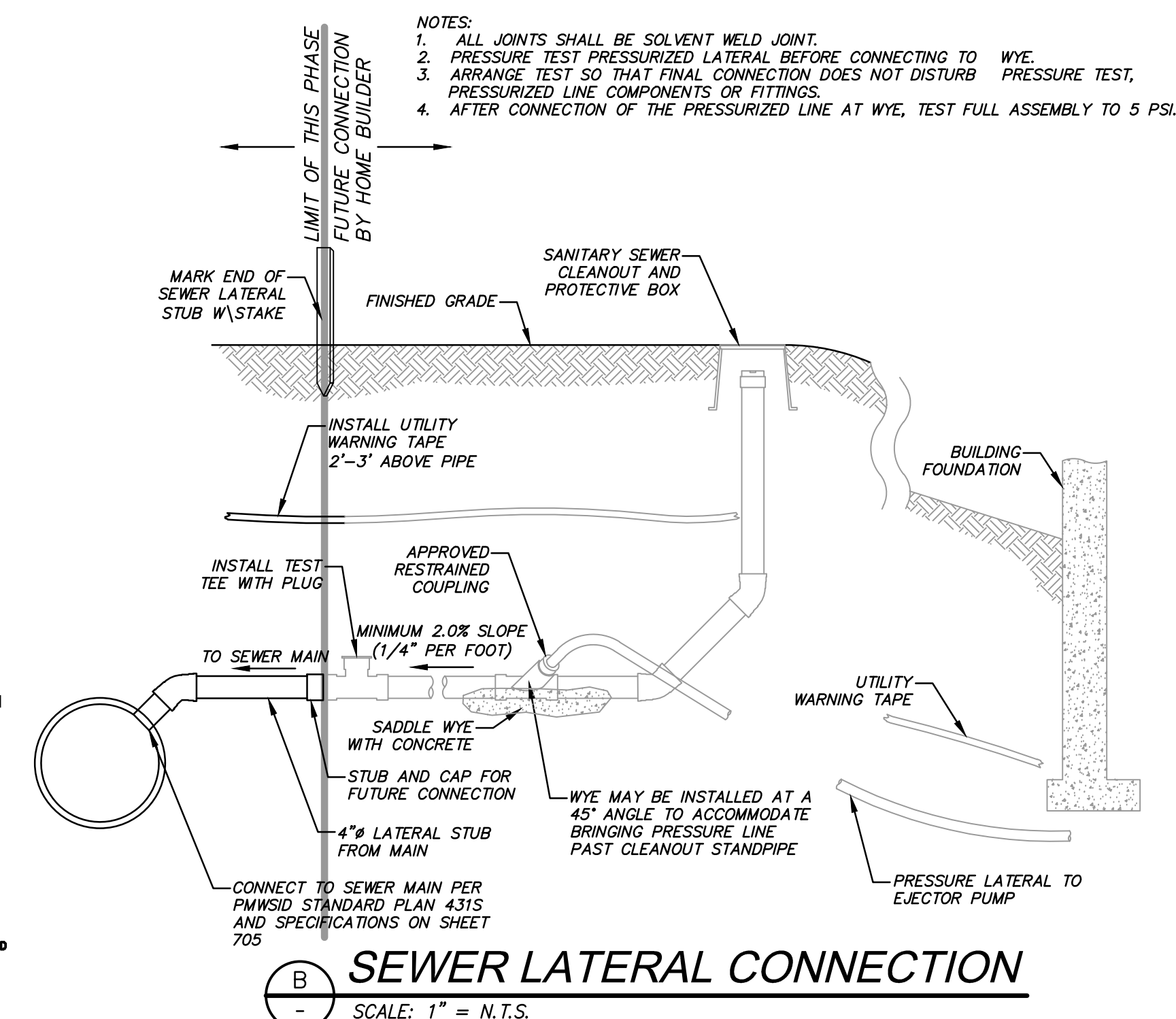
Plan 382

January 2011 205



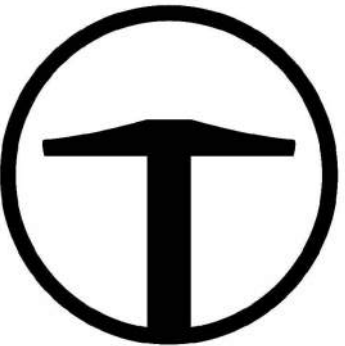
**WATER LATERAL DETAIL**

NO SCALE



**SEWER LATERAL CONNECTION**

SCALE: 1" = N.T.S.

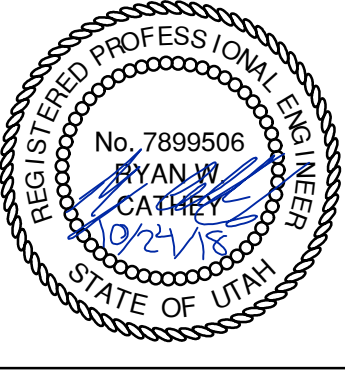


**TALISMAN**  
CIVIL CONSULTANTS  
5217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**

DETAILS



SHEET NUMBER  
**702**

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18\_200.22



30" Frame and cover

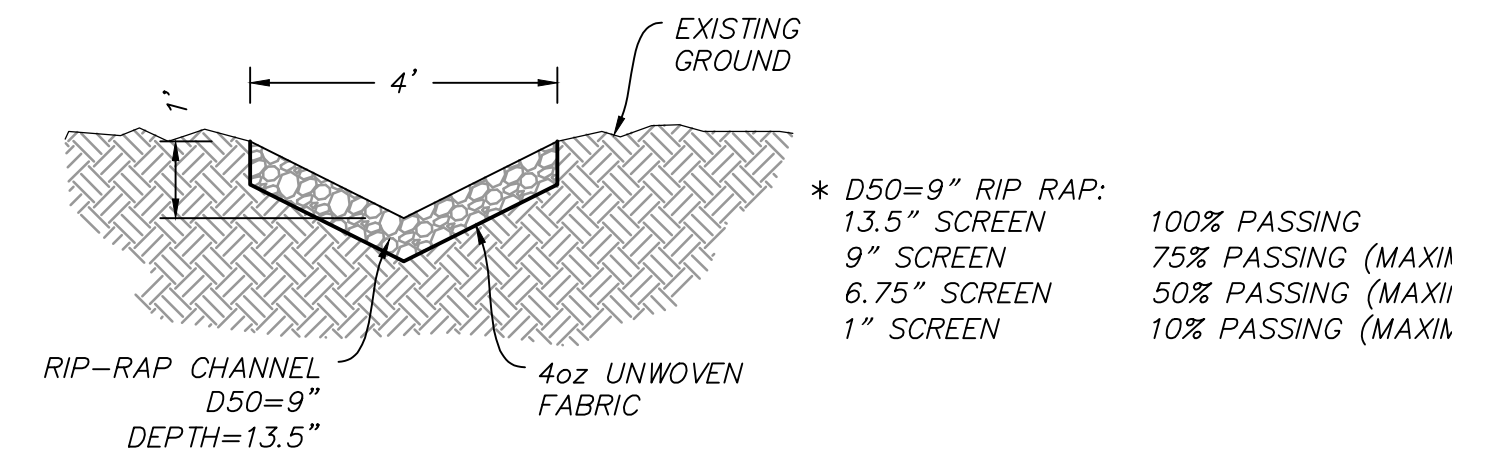
1. GENERAL
  - A. The frame and cover fits the manhole in Plan 411.
2. PRODUCTS
  - A. Castings: Grey iron class 35 minimum, ASTM A 48, coated with asphalt based paint or better (except on machined surfaces).
    - 1) Cast the heat number on the frame and cover.
    - 2) Give the frame and cover a machine finish so the cover will not rock.
    - 3) √ designates machined surface.
    - 4) Cast the words "SEWER" on the cover in upper case flush with the surface finish.
3. EXECUTION
  - A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

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 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. 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.

Cover collar for sanitary sewer manhole

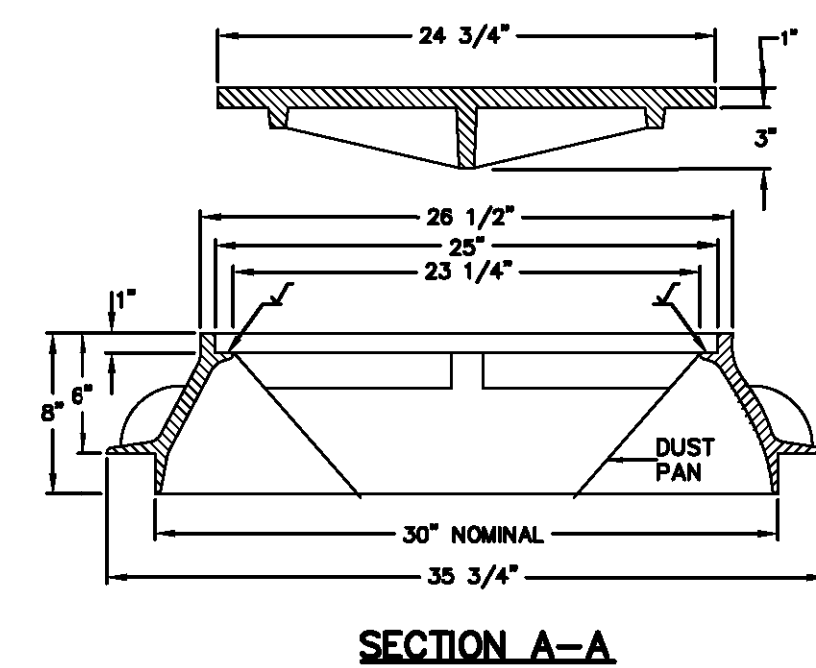
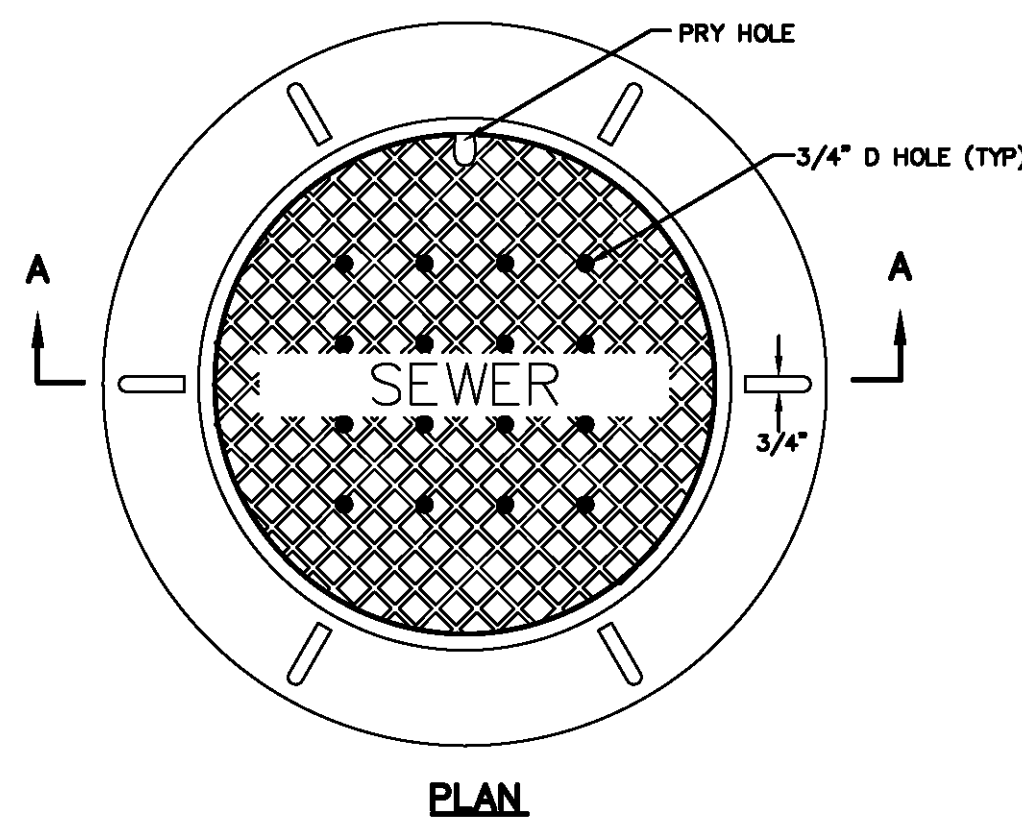
1. GENERAL
  - A. In a pavement surface, the concrete will support the frame under traffic loadings.
2. PRODUCTS
  - A. Concrete: Class 4000, APWA Section 03 30 04.
  - B. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.
3. EXECUTION
  - A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing asphalt concrete surfaces. Clean edges of all dirt, oil, and loose debris.
  - B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.



**DRAINAGE SWALE DETAIL**  
SCALE: 1" = N.T.S.

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TYPE A

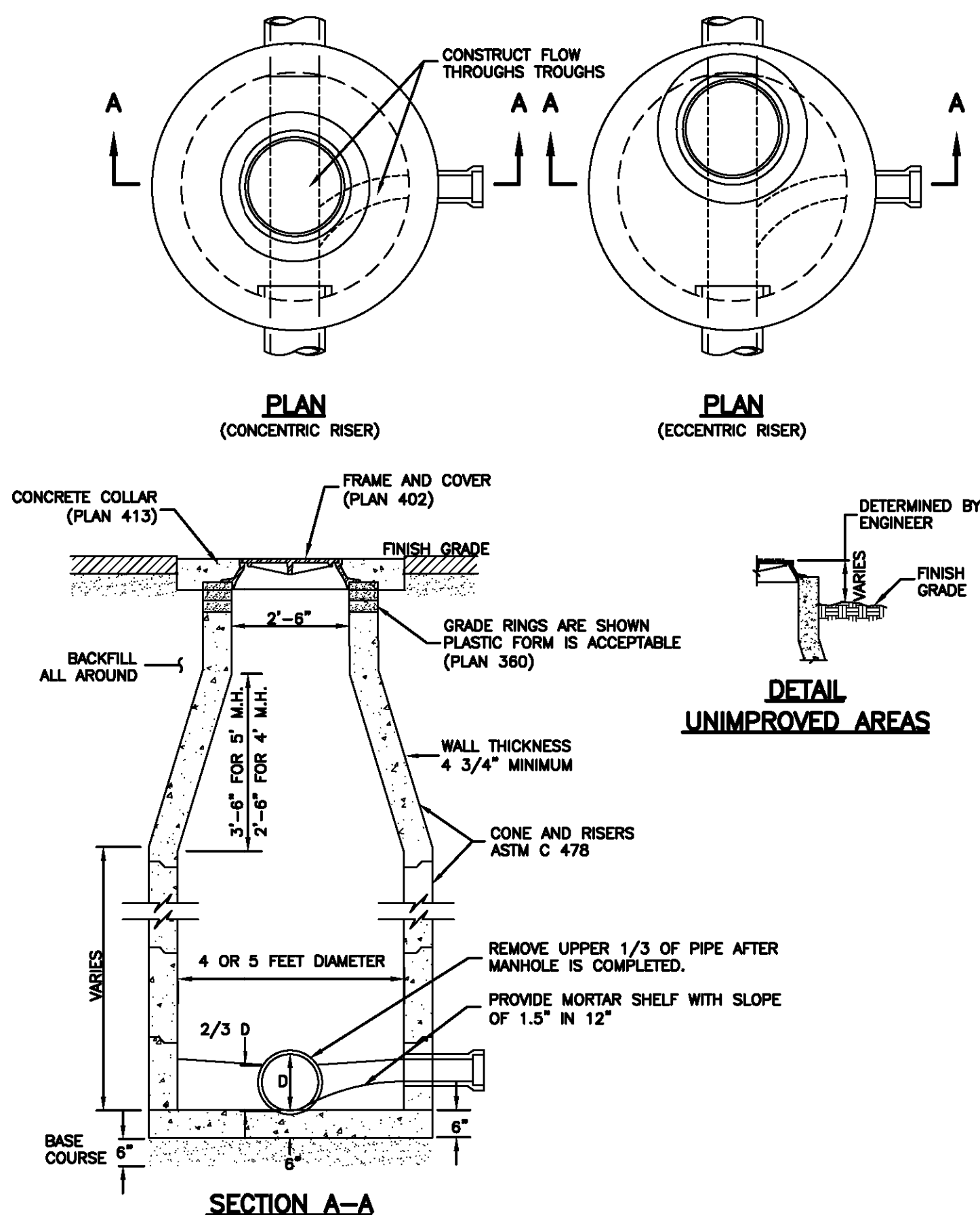


30" Frame and cover

211

April 1997

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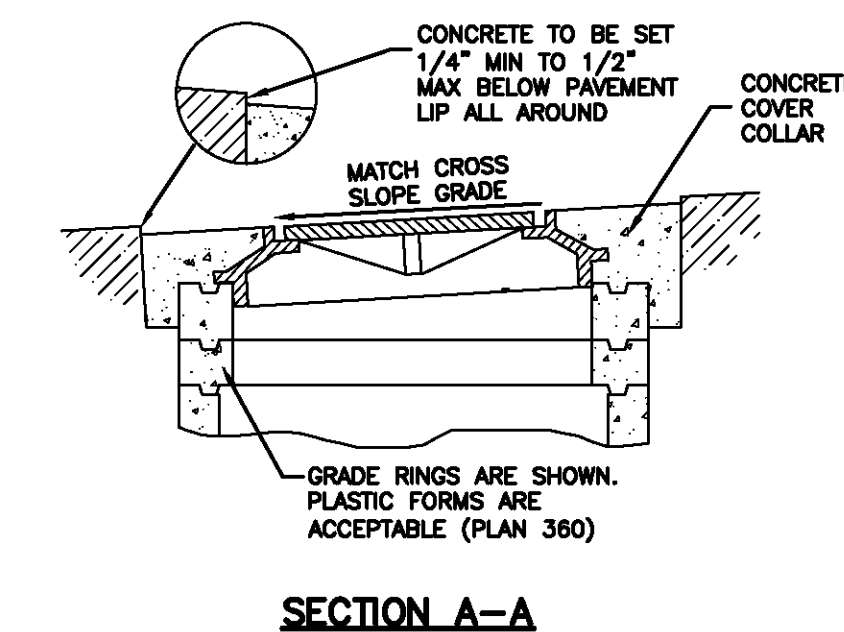
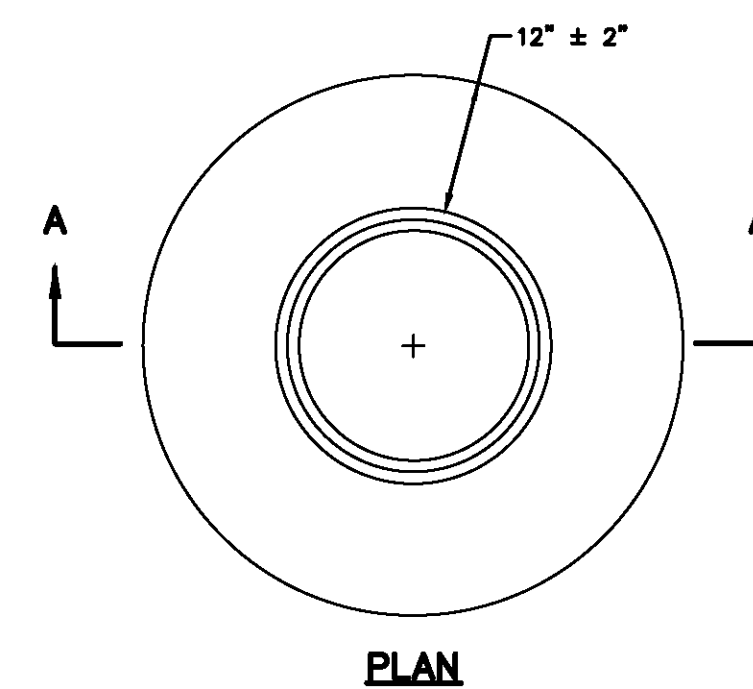
Sanitary sewer manhole

213

Plan 402

April 2011

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Cover collar for sanitary sewer manhole

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Plan 413

September 2001

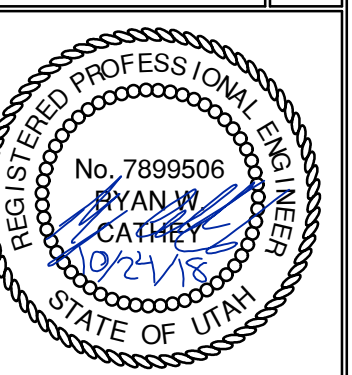


NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.  
DETAILS

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 10.24.2018



SHEET NUMBER  
703

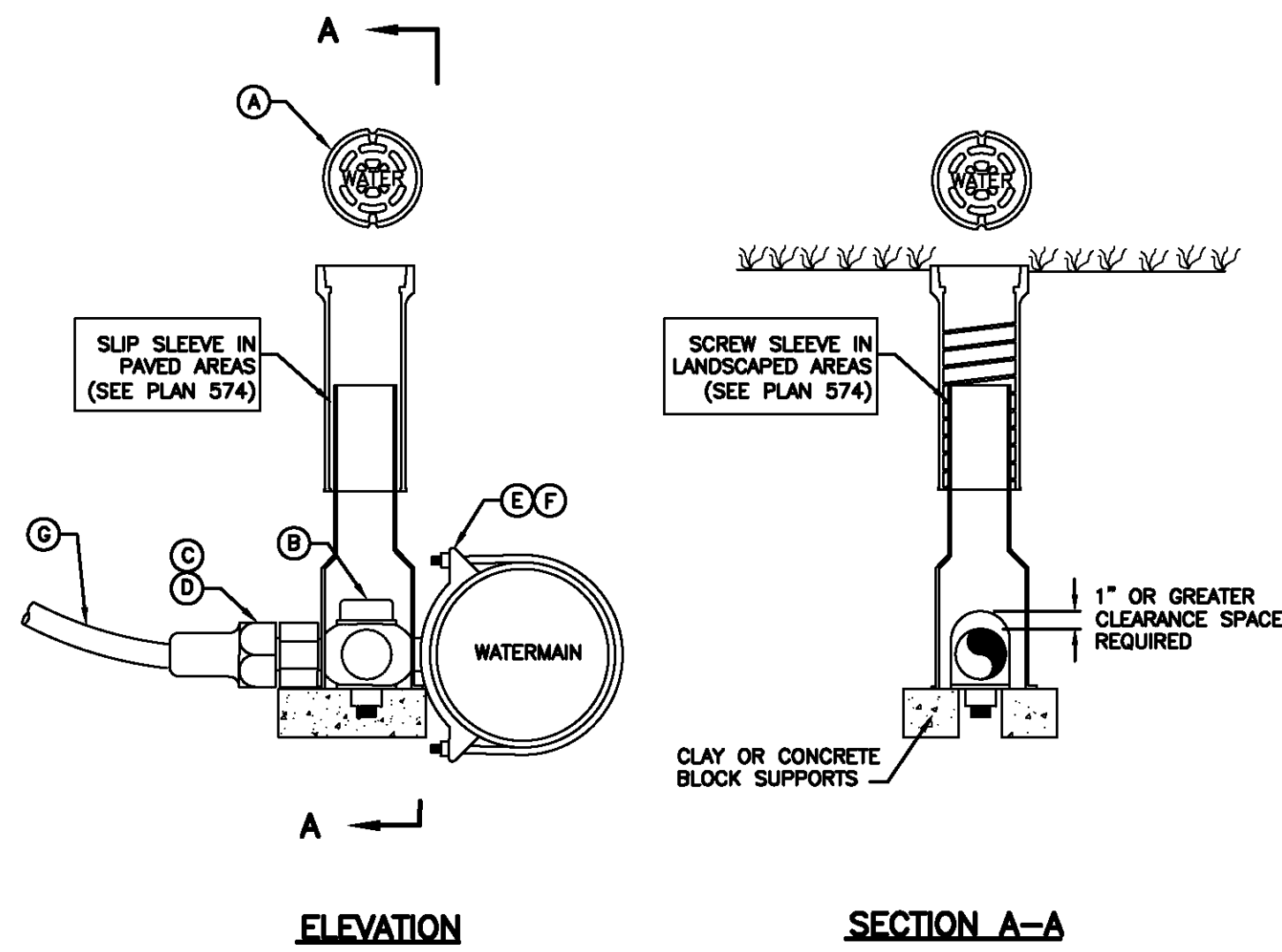
45 OF 61



1 1/2" and 2" Service taps

- GENERAL**
  - A. Before backfilling around taps, secure inspection of installation by ENGINEER.
- 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. Tape: Teflon tape is required on all taps.
- EXECUTION**
  - A. Tapping: Place taps a minimum of 36-inches apart. Use a tapping tool that is sized corresponding to the size of the service line to be installed. No taps within 36-inches of end of pipe.
  - B. PVC or AC Pipe: A service saddle clamp is required on all PVC and AC pipe taps unless specified otherwise.
  - C. Backfill: 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.
  - D. Blocks: Clay brick or concrete block required under valve box to assure a 1" or greater space between the box and the corporation stop and pipe assembly.

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LEGEND		
No.	* ITEM	DESCRIPTION
(A)	VALVE BOX WITH LID	2 PIECE CAST IRON
(B)	CORPORATION STOP	BRASS
(C)	COPPER ADAPTER	
(D)	FLARE OR PACK JOINT COPPER ADAPTER	
(E)	SERVICE SADDLE CLAMP	D.I., A.C., C.I.
(F)	SERVICE SADDLE CLAMP	P.V.C.
(G)	COPPER PIPE (SERVICE LINE)	TYPE K (SOFT)

\* FURNISHED BY UTILITY AGENCY

1 1/2" and 2" Service taps

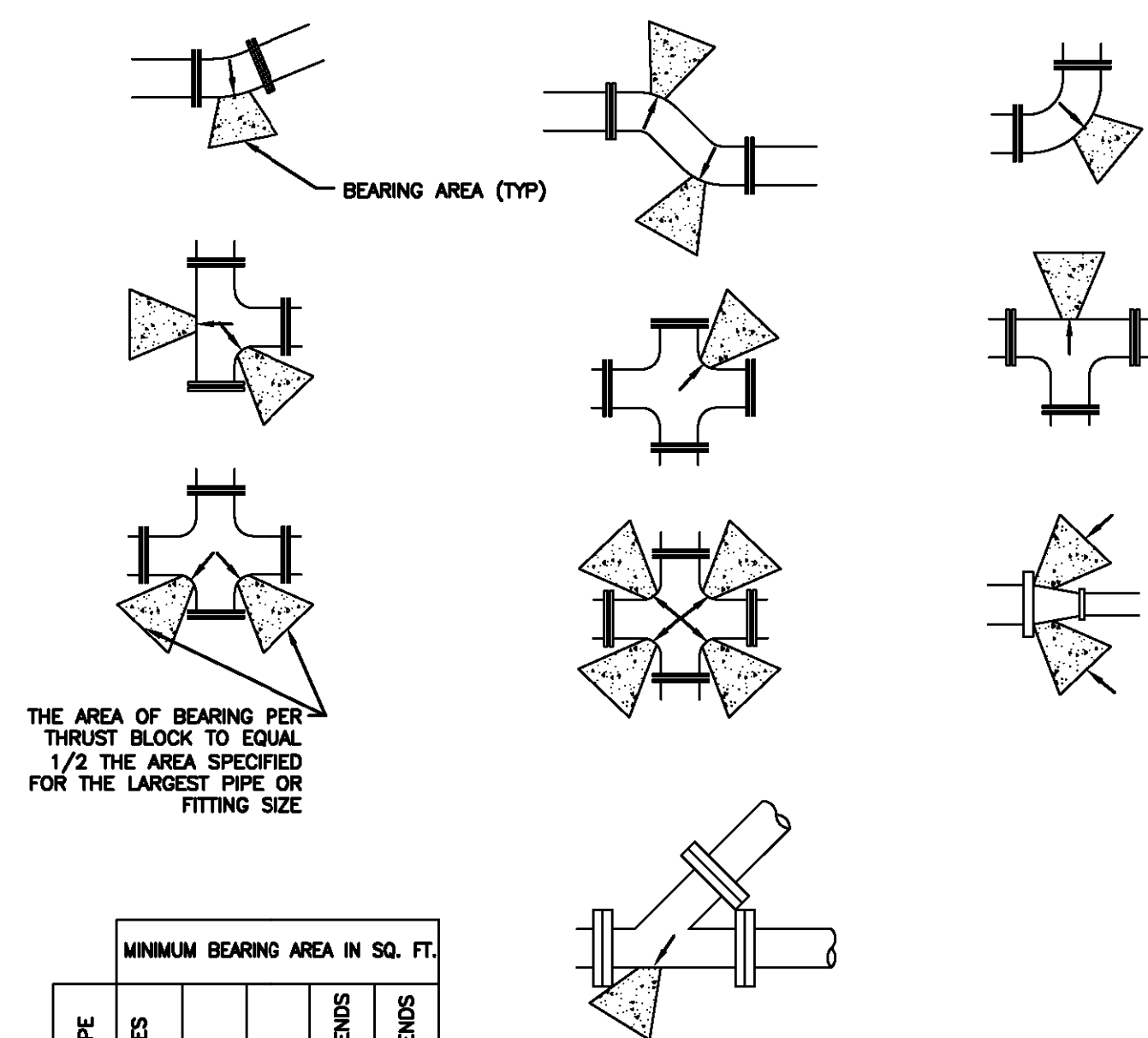
265

August 2001

Direct bearing thrust block

- 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.
  - 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.
- 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. Thrust Blocks: Concrete Class 4000, APWA Section 03 30 04.
  - D. Grease: Non-oxide poly-FM.
- EXECUTION**
  - A. Pour concrete against undisturbed soil.
  - B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
  - C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
  - D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
  - 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 density, APWA Section 31 23 26.

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Direct bearing thrust block

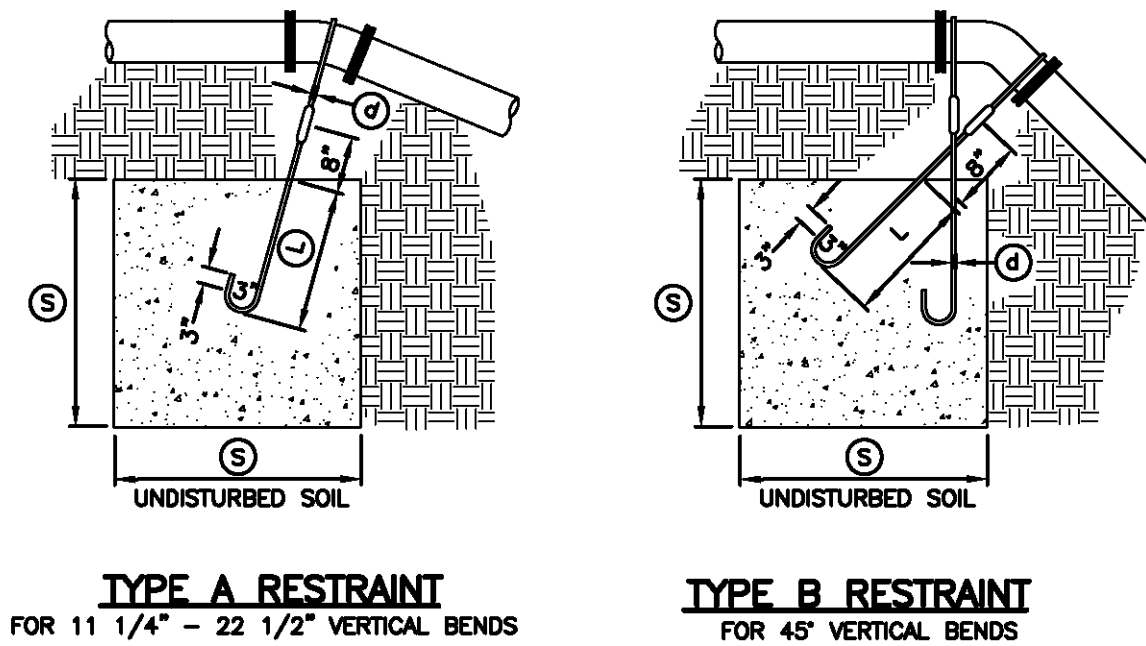
267

August 2010

Tie-down thrust restraints

- 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.
  - 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.
- 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 4,000 minimum, APWA Section 03 30 04.
  - 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.
- EXECUTION**
  - 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 and tape wrap.
  - D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
  - 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 density, APWA Section 31 23 26.

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

TYPE B RESTRAINT FOR 45° VERTICAL BENDS

TABLE OF DIMENSIONS					
PIPE SIZE NOMINAL DIAMETER	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - 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°	15.8	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
	22 1/2°	64	4.0	5/8"	2.0
12"	11 1/4°	84	4.0	5/8"	2.0
	22 1/2°	125	5.0	3/4"	3.0
16"	11 1/4°	107	4.25	7/8"	3.0
	22 1/2°	216	6.0	7/8"	3.0
20"	11 1/4°	138	5.17	1"	3.5
	22 1/2°	334	6.94	1"	4.0
24"	11 1/4°	240	6.22	1"	4.0
	22 1/2°	476	7.81	1"	4.0
30"	11 1/4°	369	7.17	1"	4.0
	22 1/2°	733	9.02	1"	4.0

TABLE OF DIMENSIONS					
PIPE SIZE NOMINAL DIAMETER	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	45°	1	3.0	5/8"	2.0
6"		2.37	4.0	5/8"	2.5
8"		3.97	4.75	5/8"	3.0
12"		9.04	6.25	5/8"	4.0
16"		17.24	7.75	3/4"	4.0
20"		26.52	9.25	3/4"	4.0
24"		37.82	10.07	3/4"	4.0
30"		58.26	11.63	3/4"	4.0

Tie-down thrust restraints

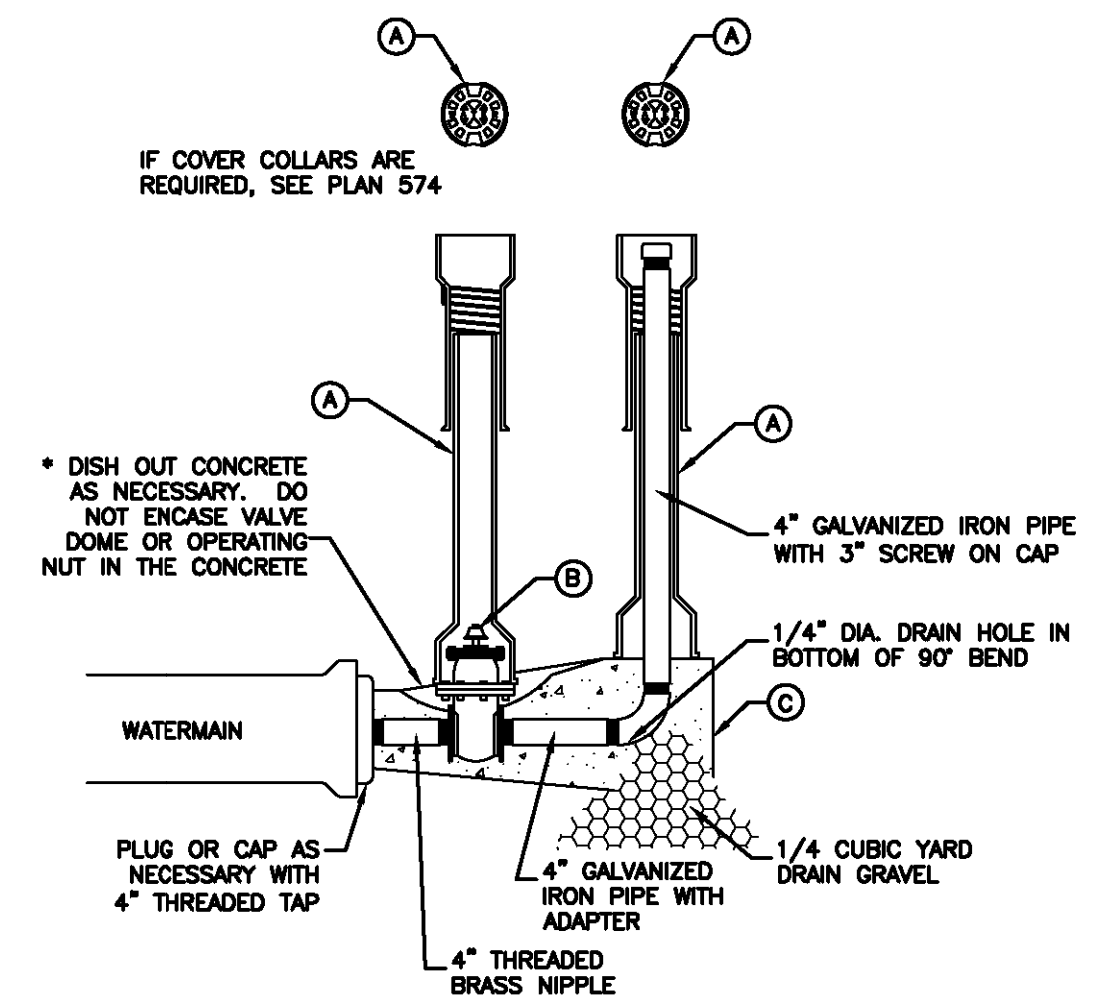
269

April 1997

4" washout valve

- GENERAL**
  - A. Before backfilling, secure inspection of installation by ENGINEER.
  - B. Water mains 12-inches and larger will require a special washout assembly design.
- 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.
- 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 gravel.
  - 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



LEGEND		
No.	ITEM	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" Washout valve

271

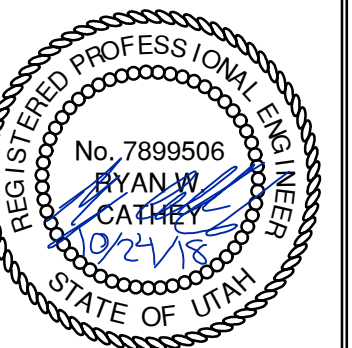
February 2011



BOBCAT RIDGE AT S.P.M. DETAILS

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22



SHEET NUMBER 704

46 OF 61

DATE: 10/24/2018 12:33 PM  
 PATH: N:\SIBD793\Cadd\18-200-22-gather-estate-lets - bobcat ridge\1704-DETAILS.dwg

Cover collar for water valve box

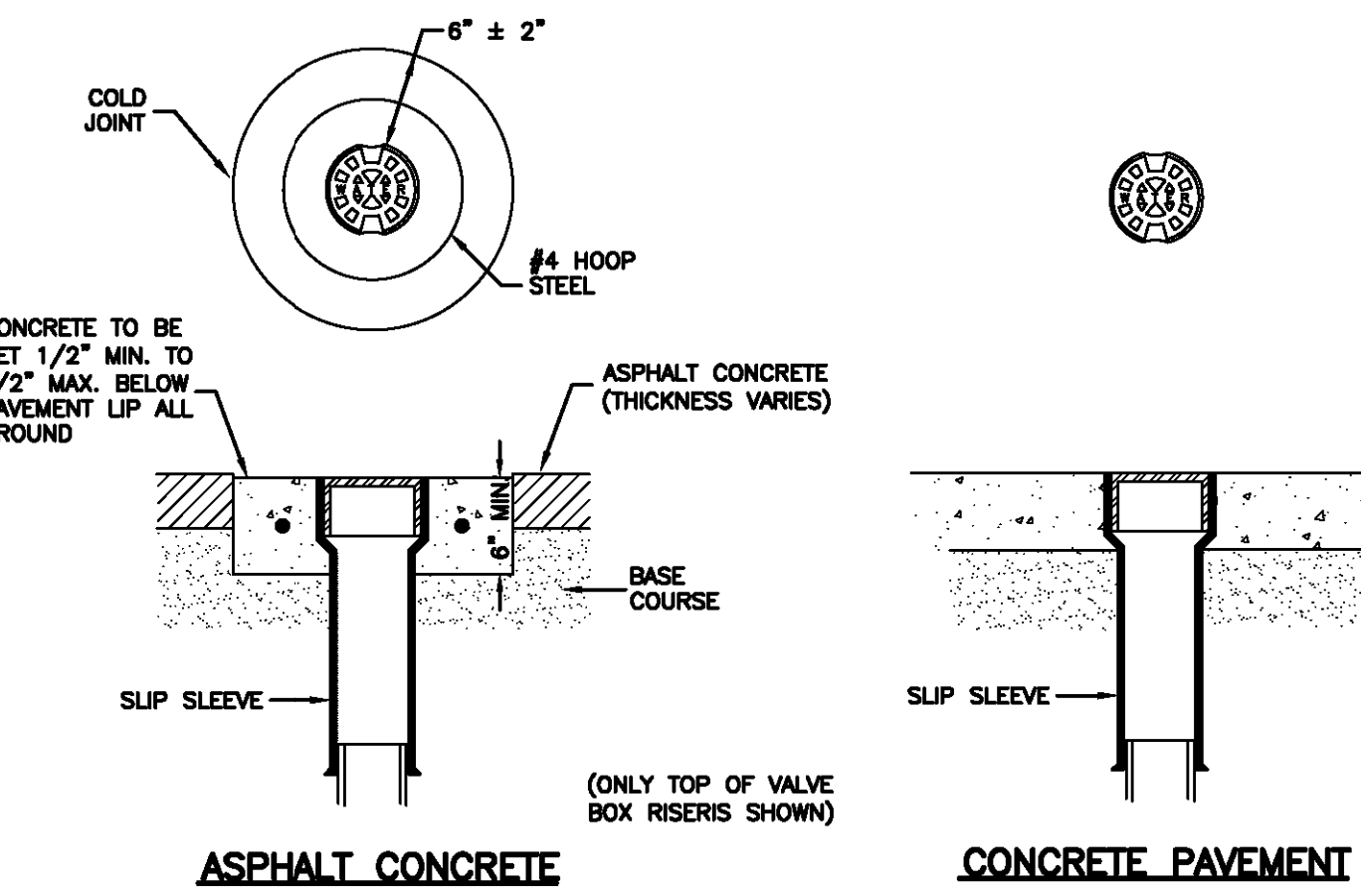
- GENERAL**
  - In a pavement surface, fill an annular space around a frame and cover casting with concrete. The concrete will support the casting under traffic loadings.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.
- EXECUTION**
  - 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 26.
  - 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.

276

Air release assembly

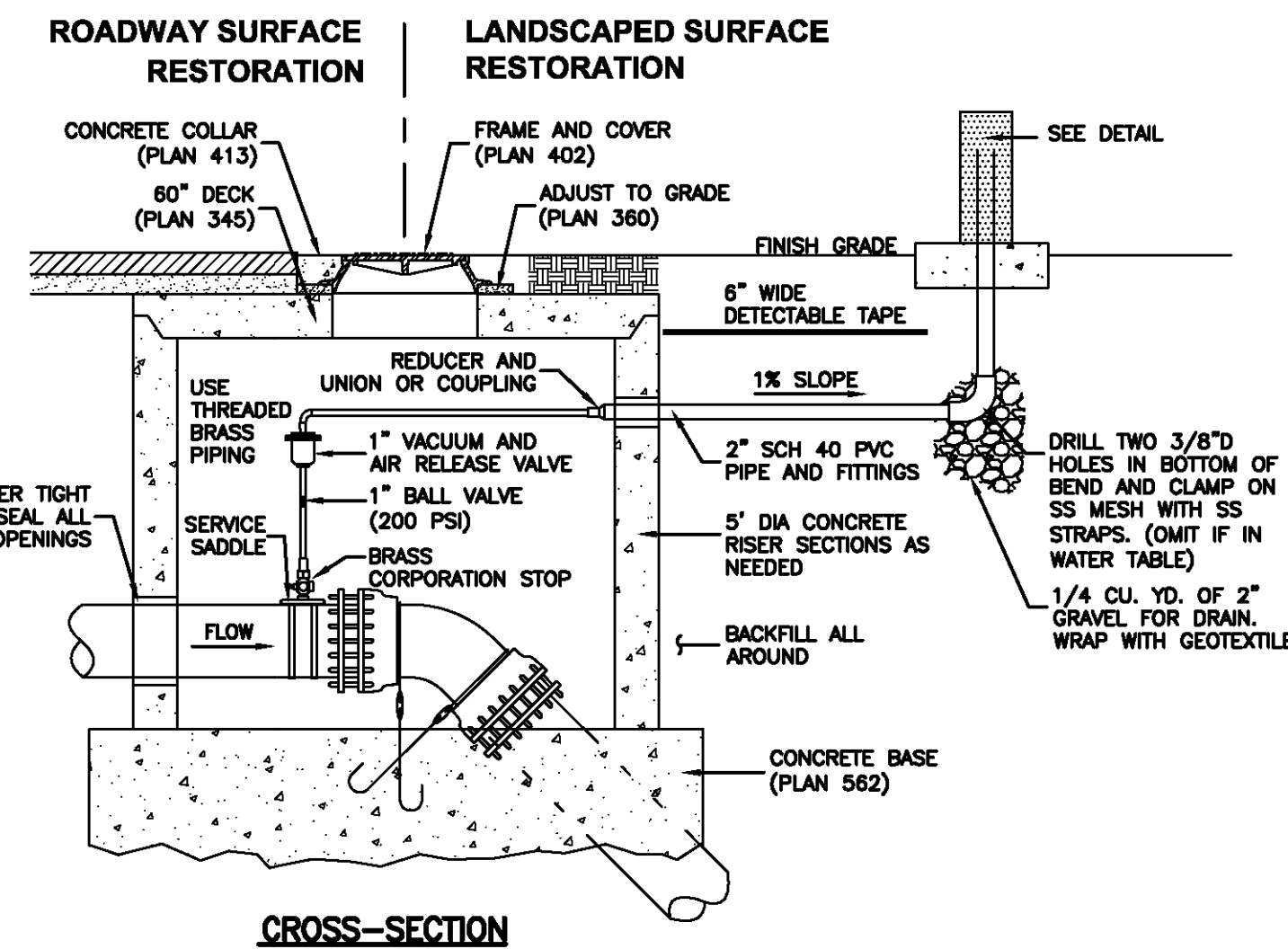
- GENERAL**
  - This drawing detail is applicable to water main piping less than 16-inches diameter.
  - PCCP, steel, MLAC and other water main pipe materials will require special detail or design drawings. Submit the design and detail drawings and materials to the ENGINEER for review before installation.
  - Installation in areas of high ground water or potential for water entering the vent pipe will require a special design to be provided by the ENGINEER.
  - Before backfilling around the assembly, secure inspection of installation by ENGINEER.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Drain Gravel: Sewer rock, ASTM size no. 3 (2" to 1") or equal, APWA Section 31 05 13.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Manhole: Riser, ASTM C 478.
  - 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.
  - Small Fittings: Brass. Do not use galvanized materials.
  - PVC Pipe and Fittings: Schedule 40, APWA Section 33 05 07.
  - Water Tight Wall Seal: Waterproof, compressible.
- EXECUTION**
  - 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.
  - Apply tape wrap to the exterior of all buried steel pipe per AWWA C209.
  - Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - Service saddle is required on all PVC and AC pipe taps unless specified otherwise. Ductile iron and cast iron pipe may be direct tapped.
  - Seal manhole joints water-tight and ground flush with interior wall.
  - Follow applicable AWWA and NSF standards when connecting piping.
  - 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.

278

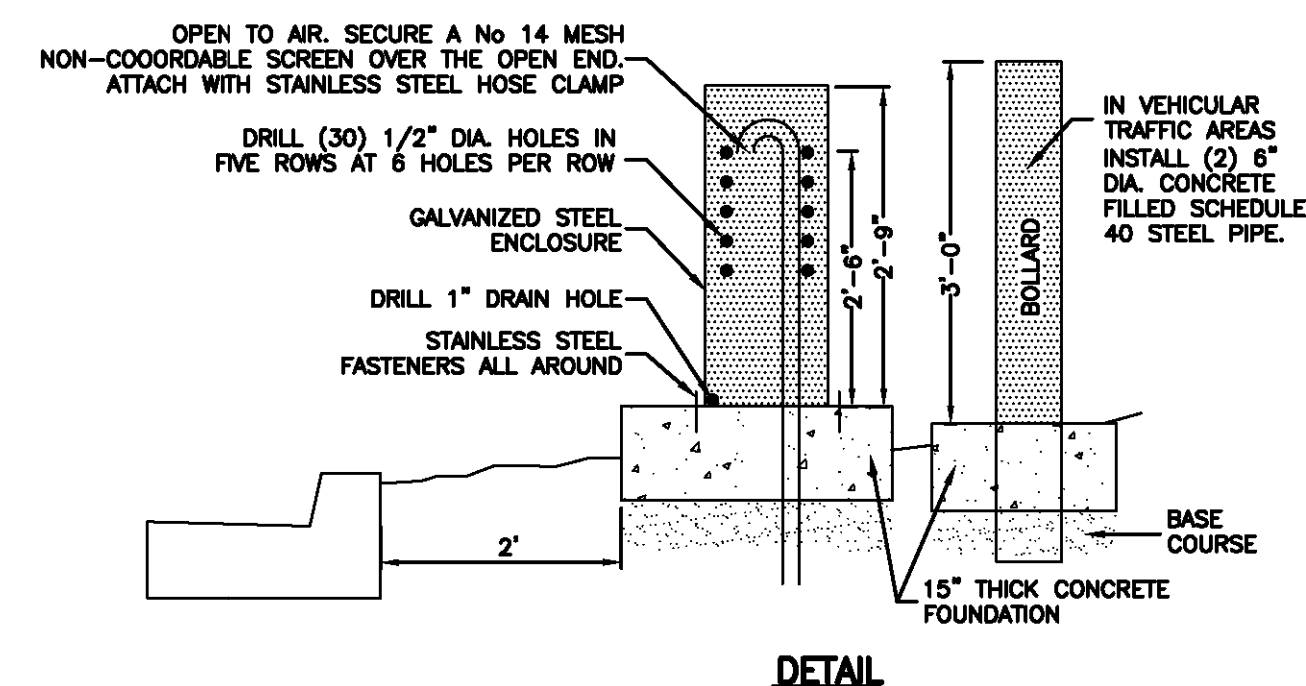


ASPHALT CONCRETE

CONCRETE PAVEMENT



CROSS-SECTION



DETAIL

August 2010

Cover collar for water valve box

277

Plan 574

February 2011

Air release assembly

279

Plan 575

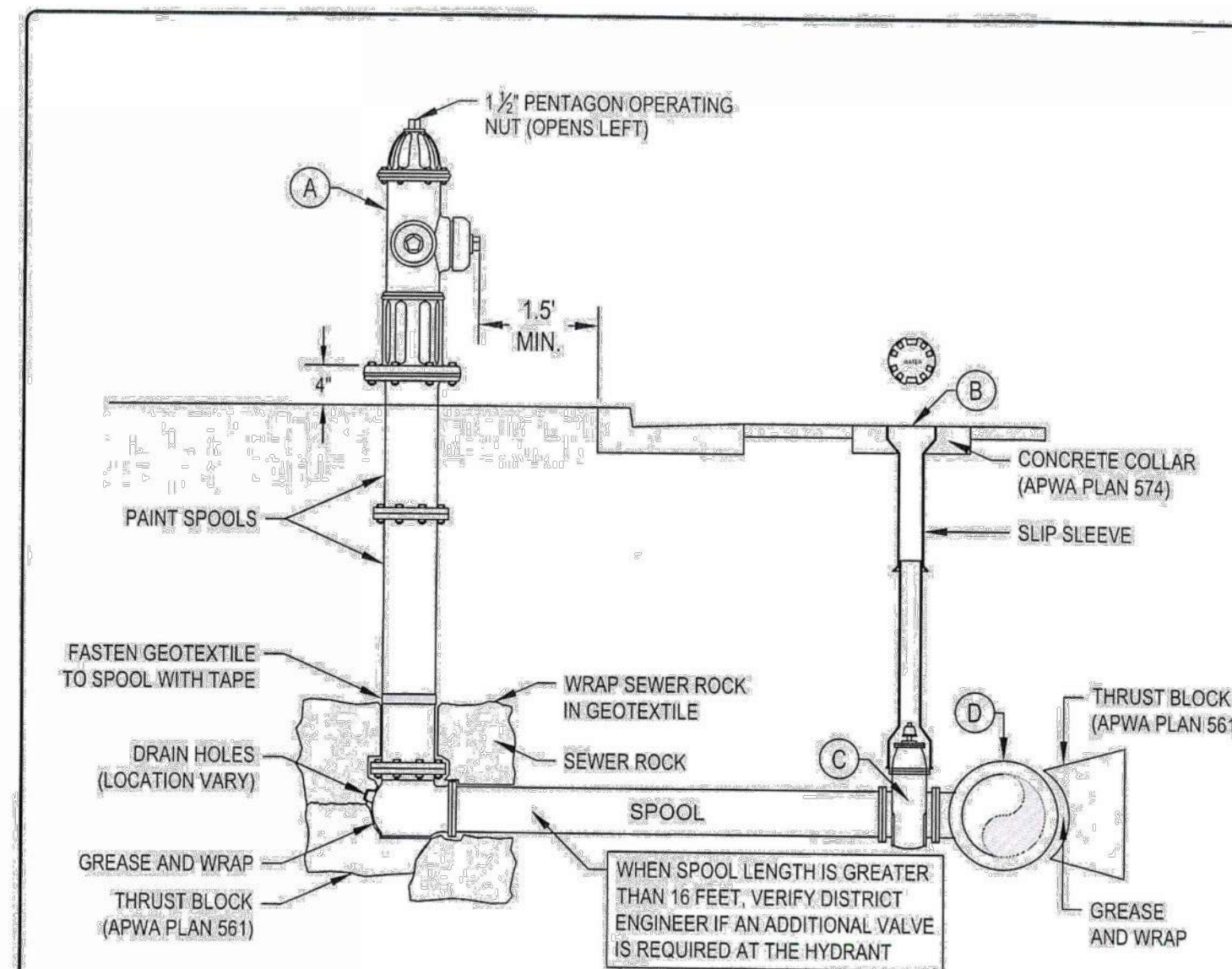
FIRE HYDRANT WITH VALVE

- GENERAL**
  - BEFORE BACKFILLING, SECURE INSPECTION BY ENGINEER.
  - ADDITIONAL REQUIREMENTS ARE SPECIFIED IN APWA SECTION 33 11 00.
- PRODUCTS**
  - HYDRANT: DRY BARREL, AWWA C502.
  - THRUST BLOCK: CONCRETE CLASS 4000, APWA SECTION 03 30 04.
  - REINFORCEMENT: DEFORMED, 60KSI YIELD GRADE STEEL, ASTM A 615.
  - BACKFILL: APWA SECTION 31 05 13. MAXIMUM PARTICLE SIZE 2-INCHES.
    - SEWER ROCK: ASTM SIZE NO. 3 (2" TO 1") OR LARGER.
    - OTHER TYPE OF COMMON FILL: CONTRACTOR'S CHOICE.
  - GEOTEXTILE: STABILIZATION-SEPARATION FABRIC, APWA SECTION 31 05 19.
- EXECUTION**
  - INSTALLATION:**
    - PROVIDE AT LEAST 1 CU YD OF SEWER ROCK AROUND DRAIN HOLE AT BASE OF HYDRANT SPOOL. WRAP GEOTEXTILE AROUND SEWER ROCK AND TAPE GEOTEXTILE TO HYDRANT SPOOL TO PREVENT SILTING OF SEWER ROCK.
    - PAINT FIRE HYDRANT RED.
    - APPLY NON-OXIDE GREASE TO ALL BURIED METAL SURFACES. WRAP WITH POLYETHYLENE SHEET AND TAPE WRAP.
    - NOTIFY FIRE DEPARTMENT AS SOON AS HYDRANT IS PLACED IN SERVICE.
  - THRUST BLOCKS:**
    - BEFORE POURING CONCRETE, WRAP PIPE SYSTEM WITH POLYETHYLENE SHEET TO PREVENT BONDING OF CONCRETE TO PIPE SYSTEM.
    - REQUIRED FOR FLANGE OR WELDED PIPE SYSTEMS UNLESS APPROVED BY DISTRICT ENGINEER.
  - BACKFILL:**
    - 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.



FIRE HYDRANT WITH VALVE

PLAN NO. 511S



LEGEND

No.	ITEM	DESCRIPTION
(A)	FIRE HYDRANT	MUELLER SUPER CENTURION
(B)	VALVE BOX WITH LID	2-PIECE CAST IRON
(C)	GATE VALVE WITH 2"x2" NUT	AWWA C509
(D)	TEE WITH 125# FLANGE	AWWA C110

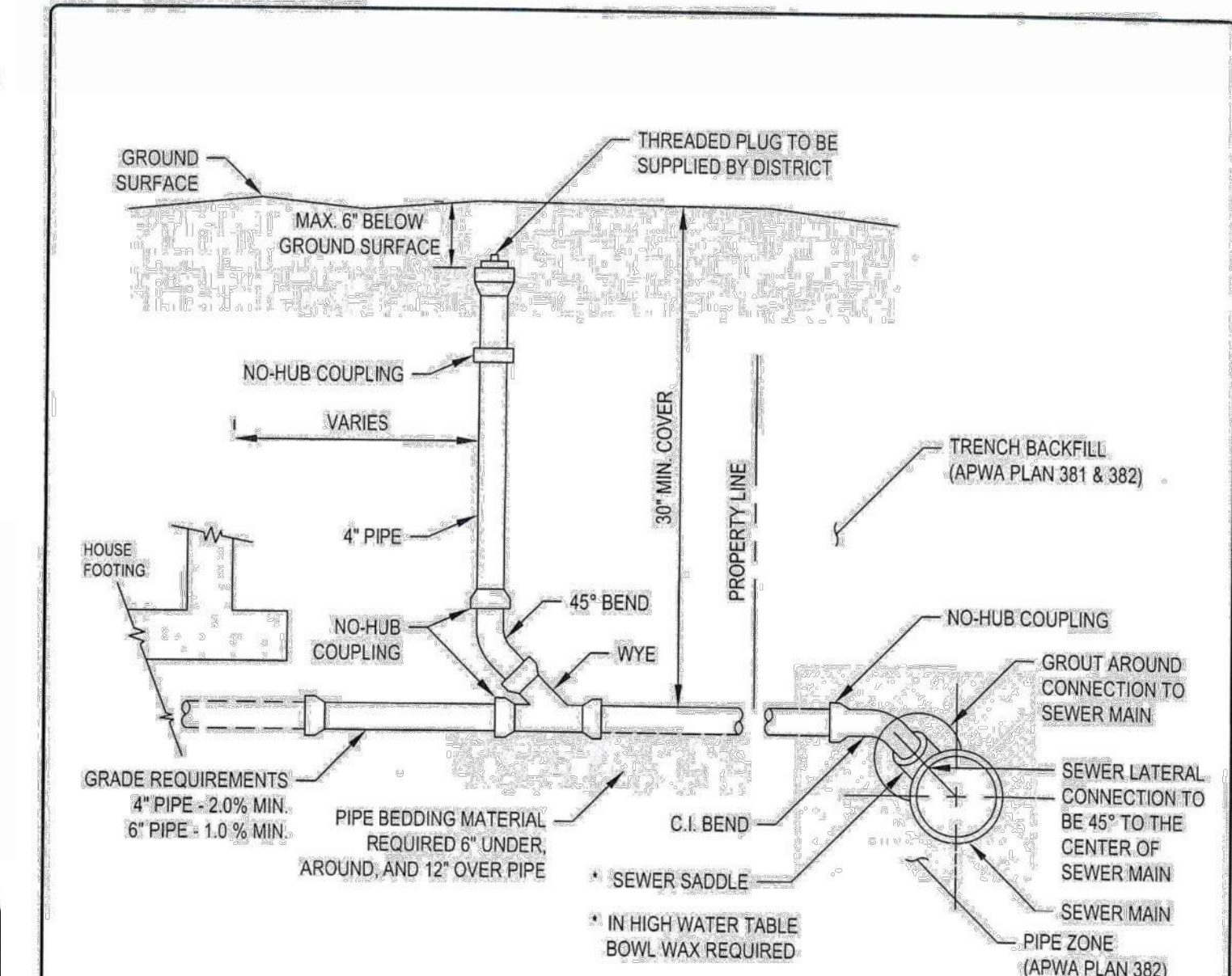
FURNISHED BY UTILITY AGENCY

SECTION



FIRE HYDRANT WITH VALVE

PLAN NO. 511S



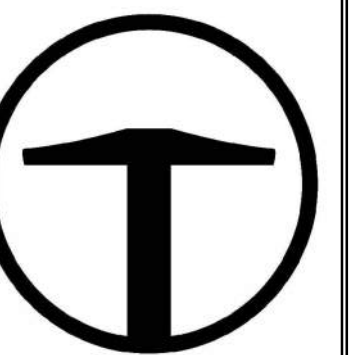
NOTES:

- ALL SERVICES SHALL BE 4" DIAMETER MINIMUM AND SHALL BE EXTENDED FROM MAIN LINES TO 10' INSIDE OF PROPERTY LINES.
- TIE IN TO SEWER MAIN SHALL BE WITNESSED BY DISTRICT.
- ALL PIPING SHALL BE INSPECTED BY DISTRICT PRIOR TO BACKFILL.
- PROTECT CLEANOUT FROM DEBRIS UNTIL PLUG IS PROVIDED.
- LOCATE ADDITIONAL CLEANOUTS AS REQUIRED BY CODE @ 100' INTERVALS.



SEWER LATERAL CONNECTION

PLAN NO. 431S



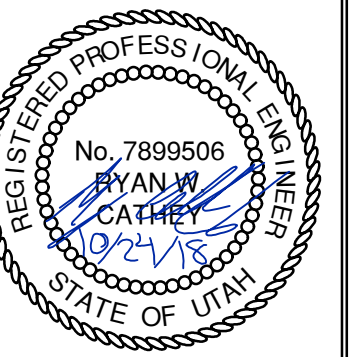
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5217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	DATE	BY	REVISIONS

BOBCAT RIDGE AT S.P.M.  
DETAILS

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18\_200.22

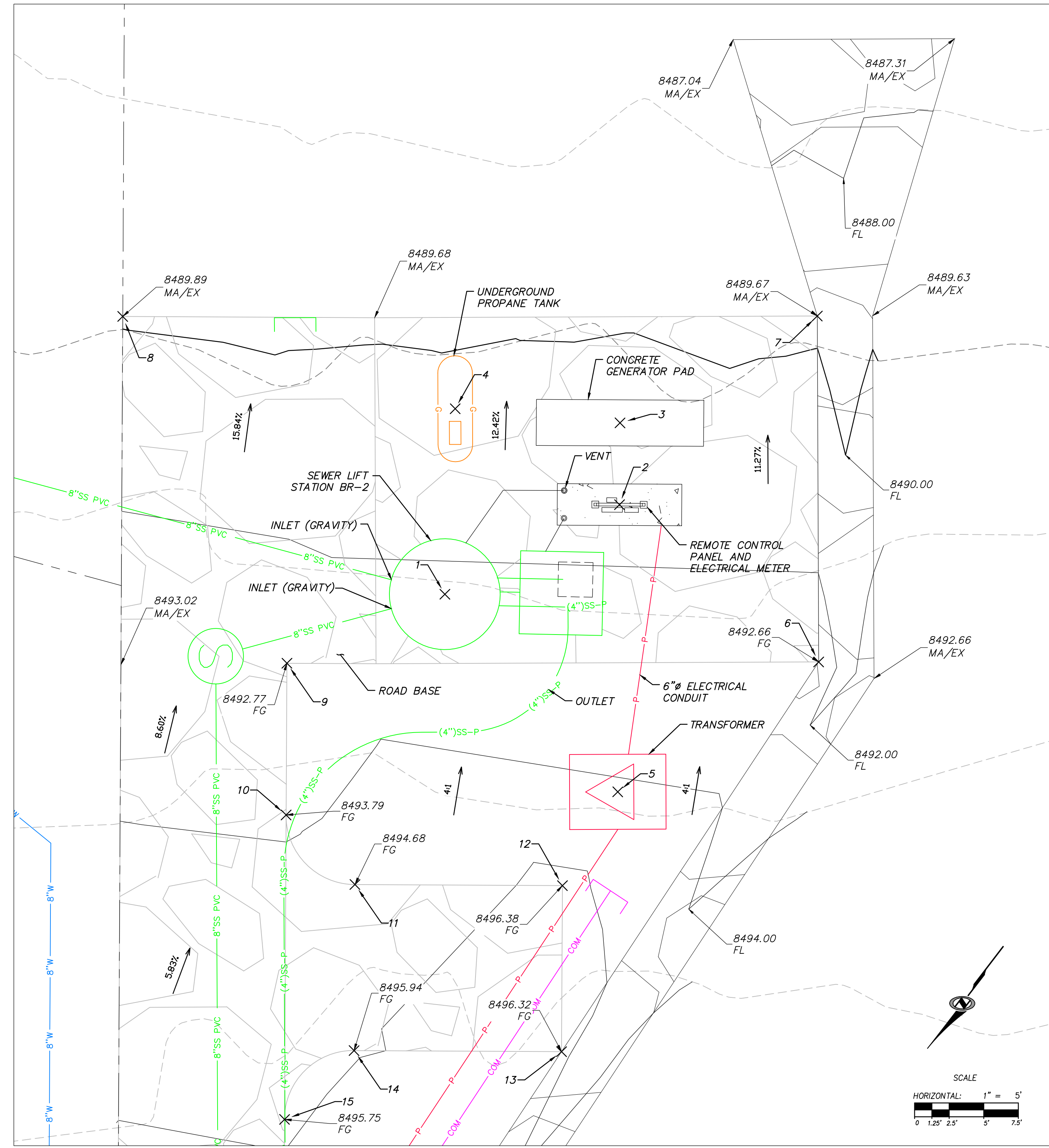
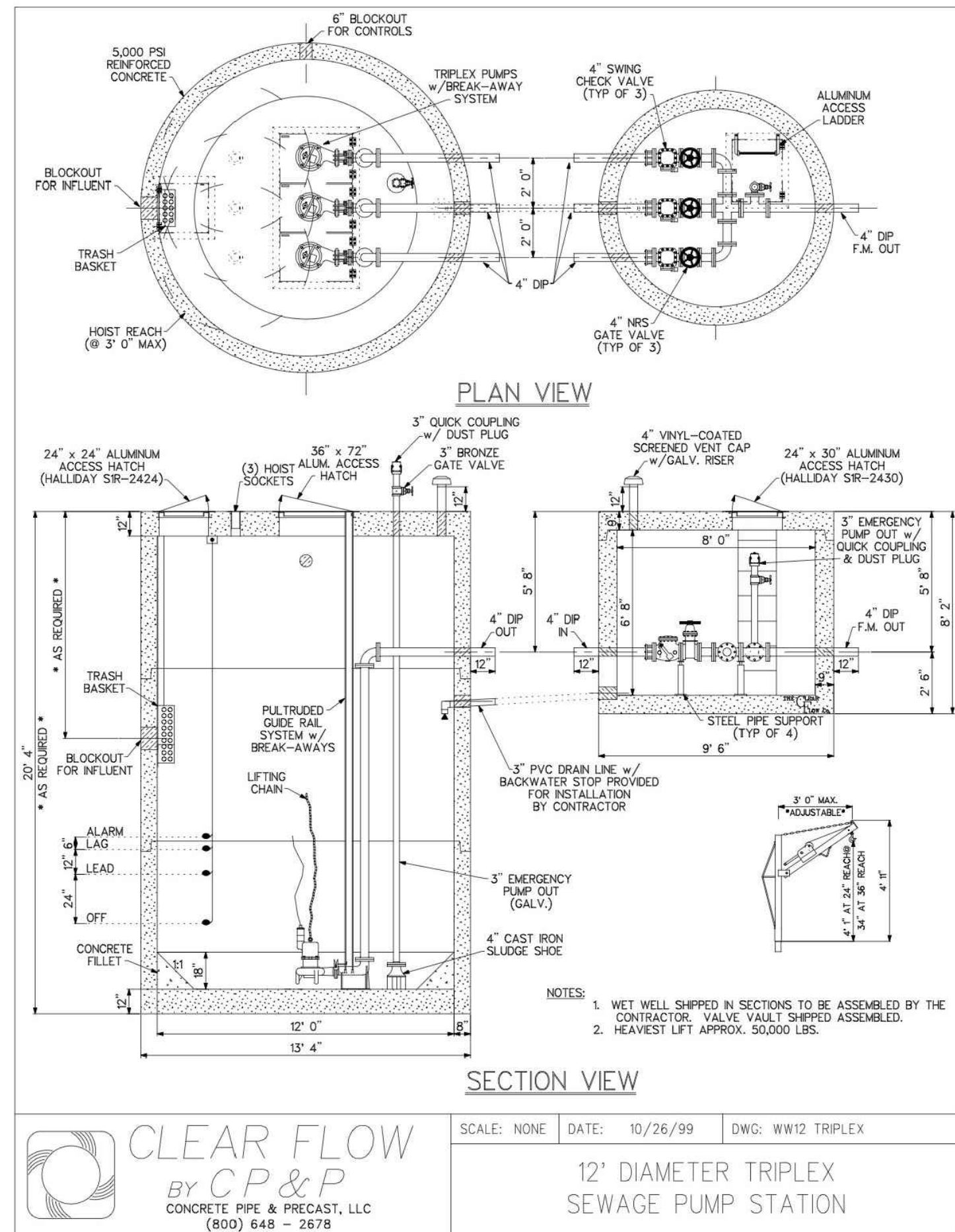
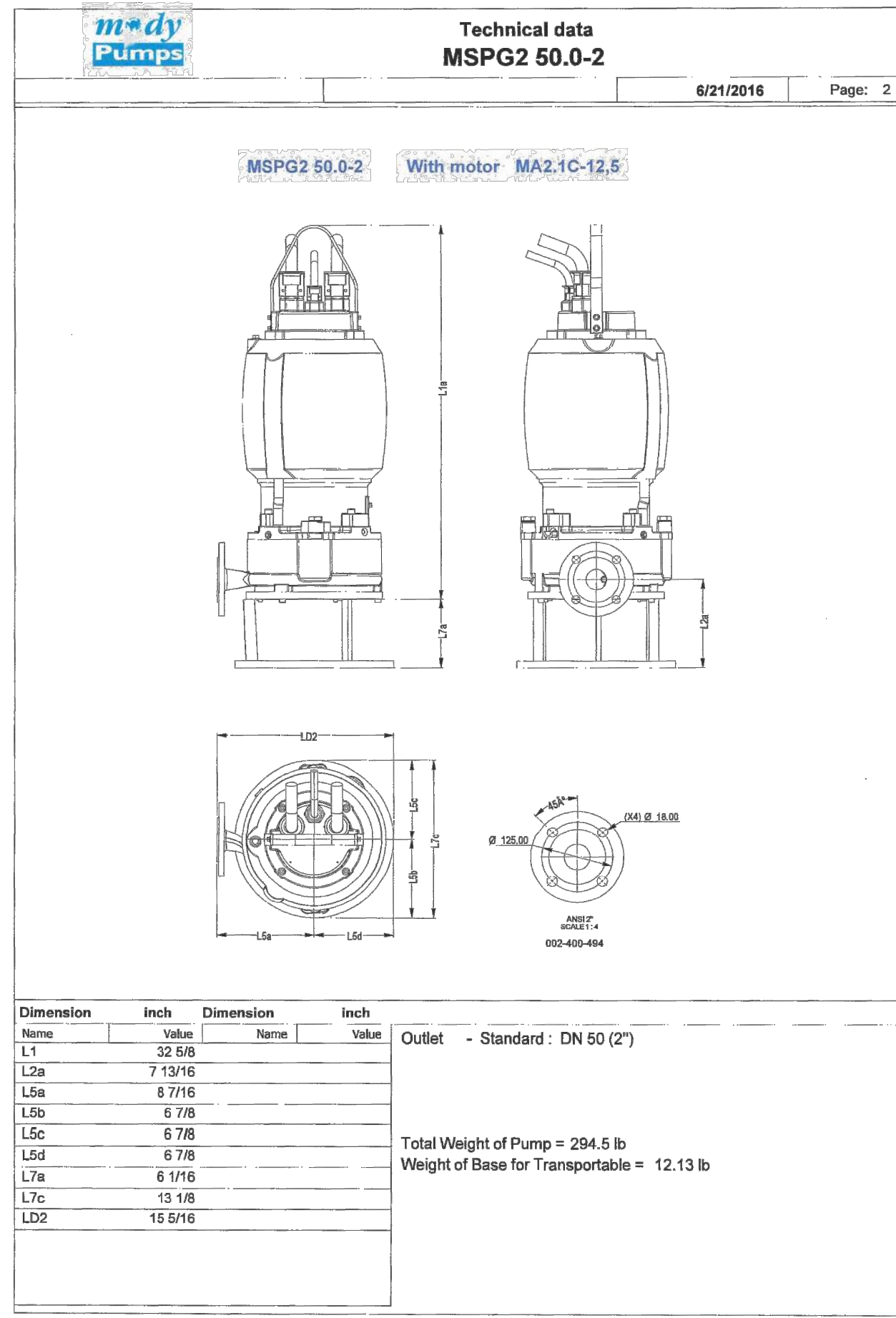


SHEET NUMBER

705

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**Point Table**

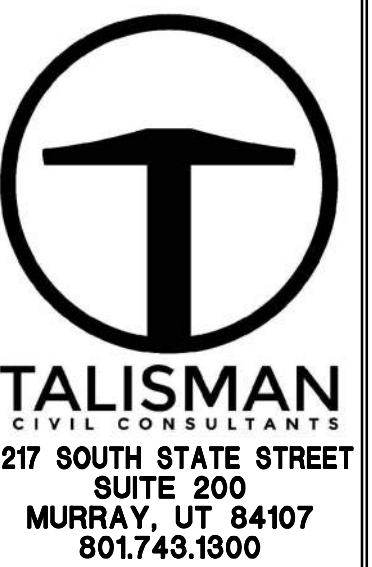
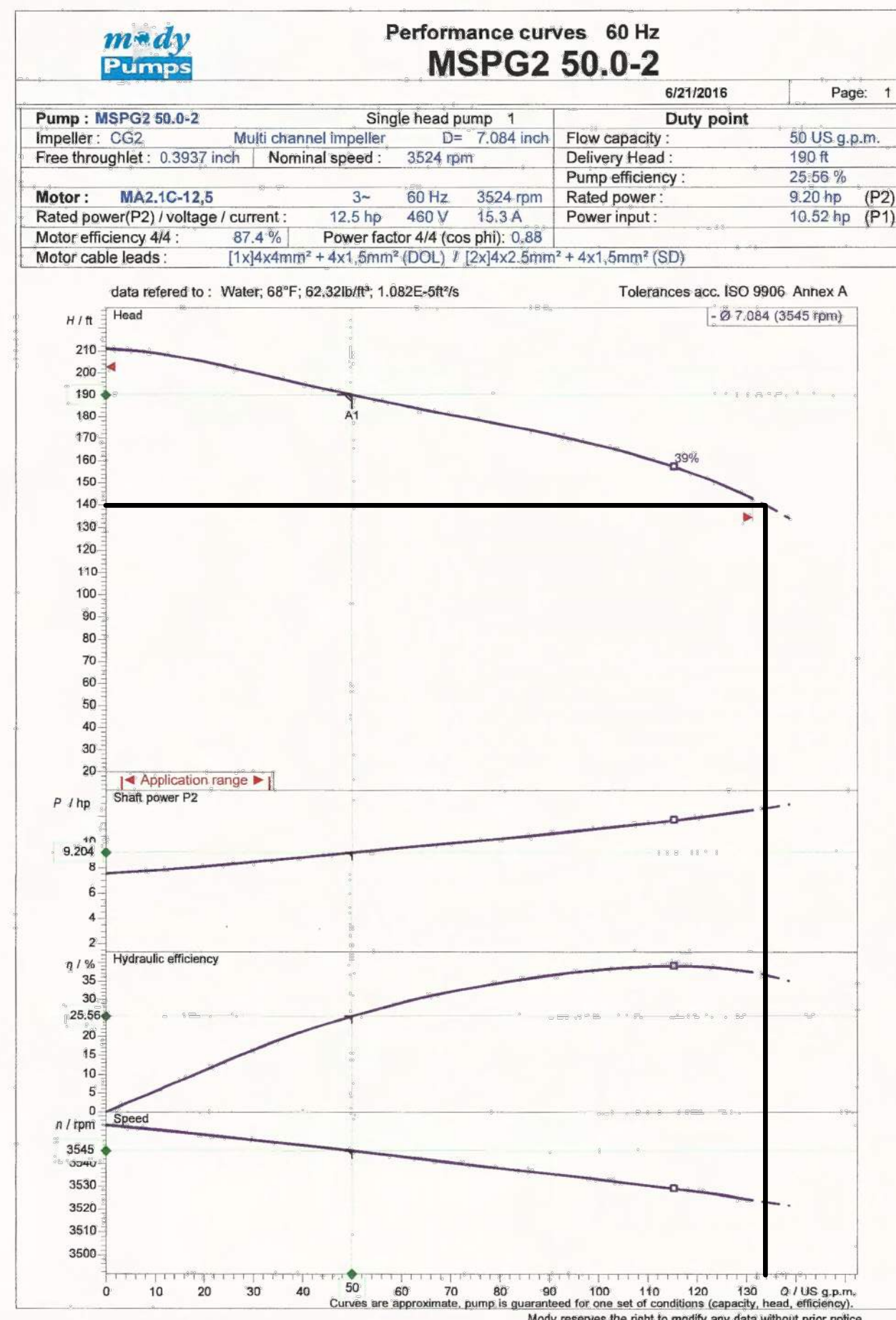
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2	3653558.33	1572005.24
3	3653553.60	1572008.80
4	3653560.02	1572018.89
5	3653574.90	1571992.75
6	3653558.63	1571986.90
7	3653538.81	1572002.14
8	3653569.30	1572042.04
9	3653582.02	1572017.40
10	3653590.77	1572010.80
11	3653591.75	1572003.79
12	3653582.71	1571991.82
13	3653592.29	1571984.59
14	3653601.33	1571996.56
15	3653608.33	1571997.54

**LEGEND**

PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	AVERAGE FLOW (GPM) IN	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
BR-2	8480.31 8482.63	8" 8"	8471.30	12'	140'	12.5	4"	3.16 ft/sec	7,500	MSPG2 50.0-2	MODY SUBMERSIBLE SEWAGE PUMP	10.5	CELLULAR	AUTOMATIC	3 PHASE/460 VOLT

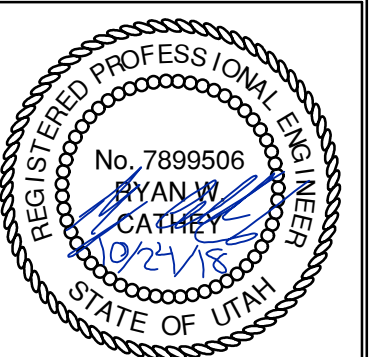
**GENERAL NOTES**

- LIFT STATIONS MUST BE COVERED WITH HS-20 LOAD RATED LIDS WHICH ARE SPRING LOADED FOR EASY OPENING.
- CHECK VALVES ON PUMP STATIONS SHALL BE BALL CHECK VALVES.
- PUMP STATION LEVEL SENSORS SHALL BE MERCURY FLOAT SWITCHES, SEE ELECTRICAL.
- OWNER TO PROVIDE A SPARE PUMP FOR EACH BRAND OF PUMP USED TO PMSID IN CASE OF PUMP FAILURE.

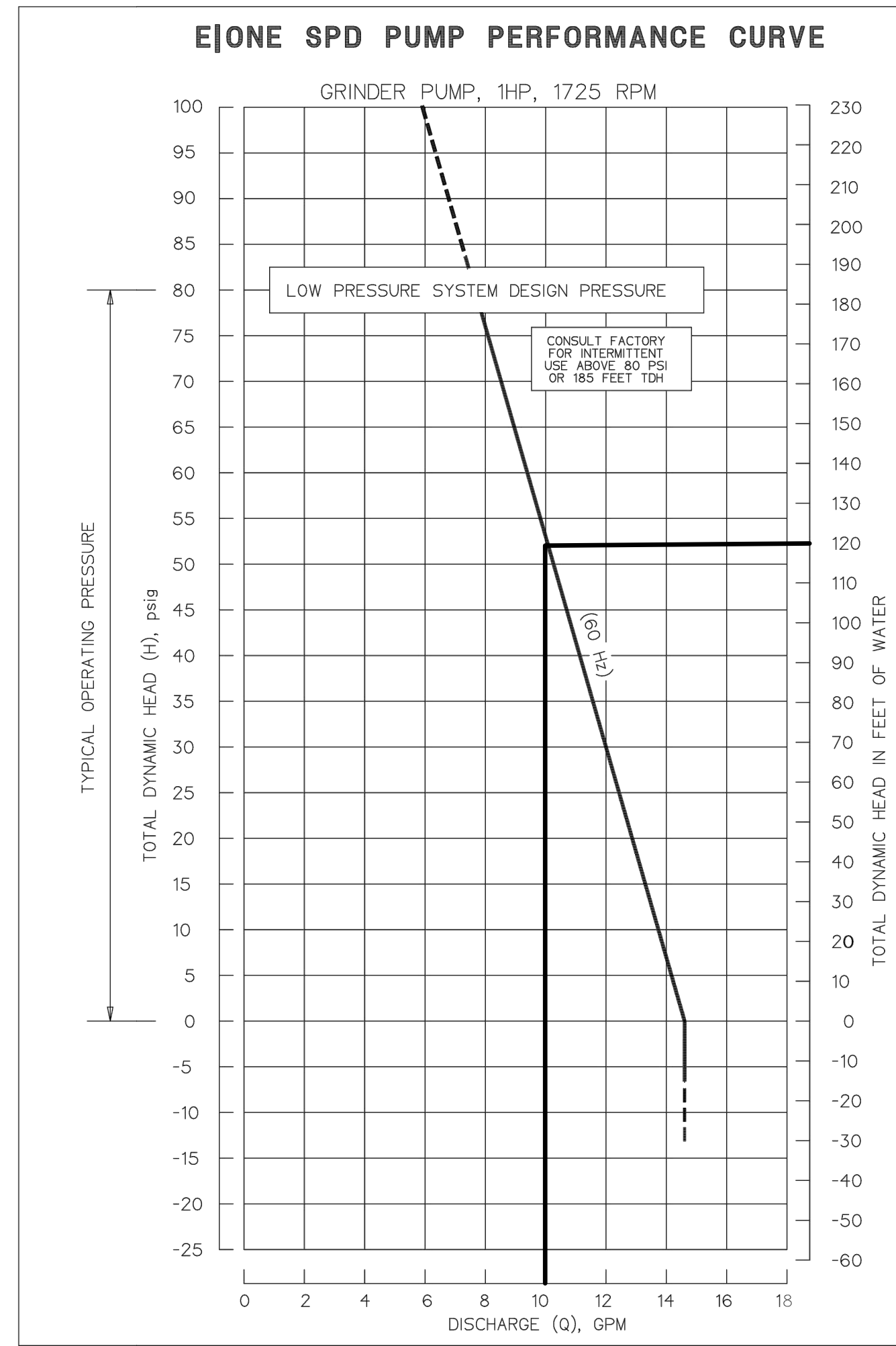


**BOBCAT RIDGE AT S.P.M.**  
SEWER GRINDER STATION DETAILS  
BR-2 BACK LOT SEWER GRINDER STATION

DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18-200.22

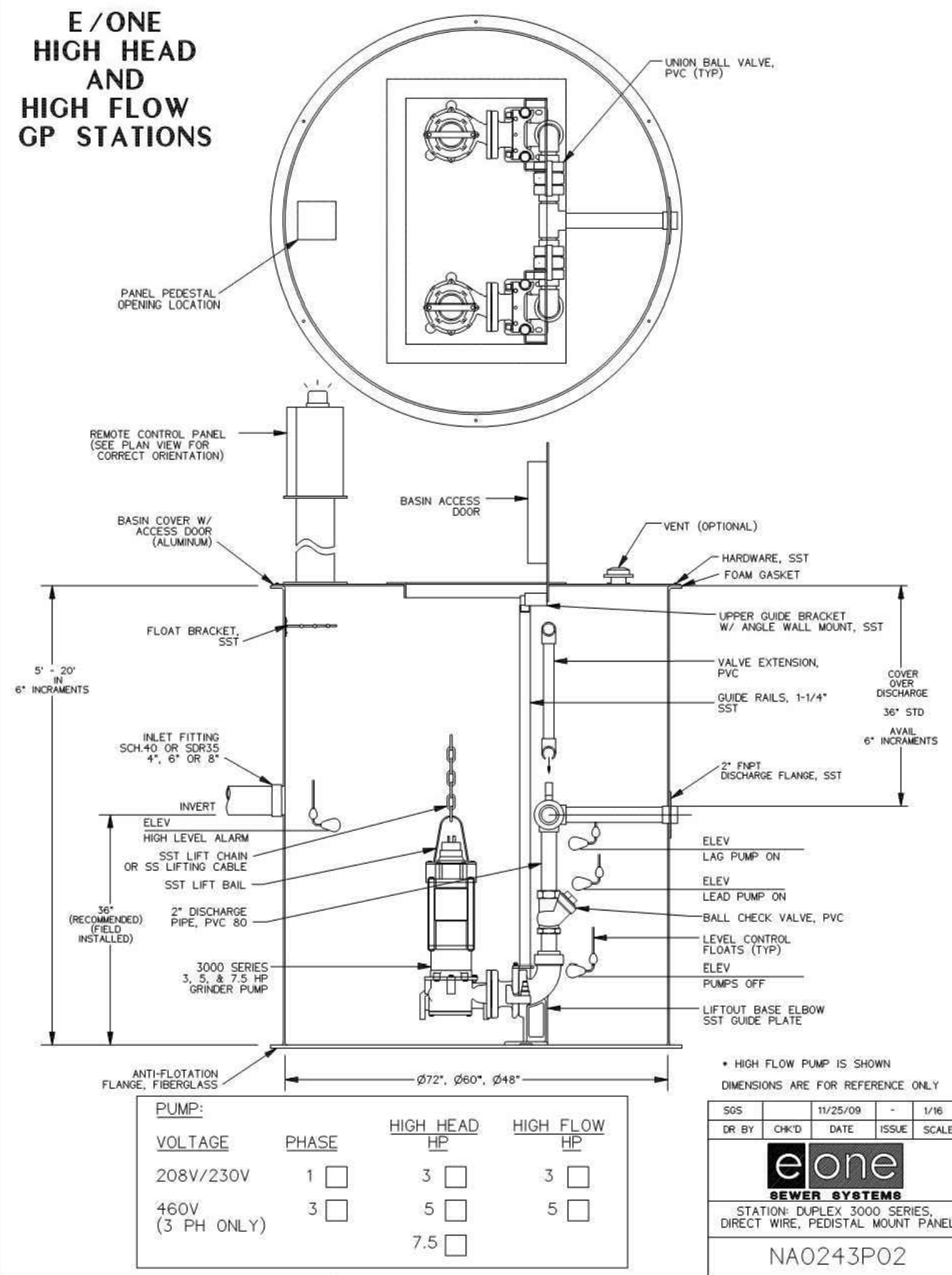




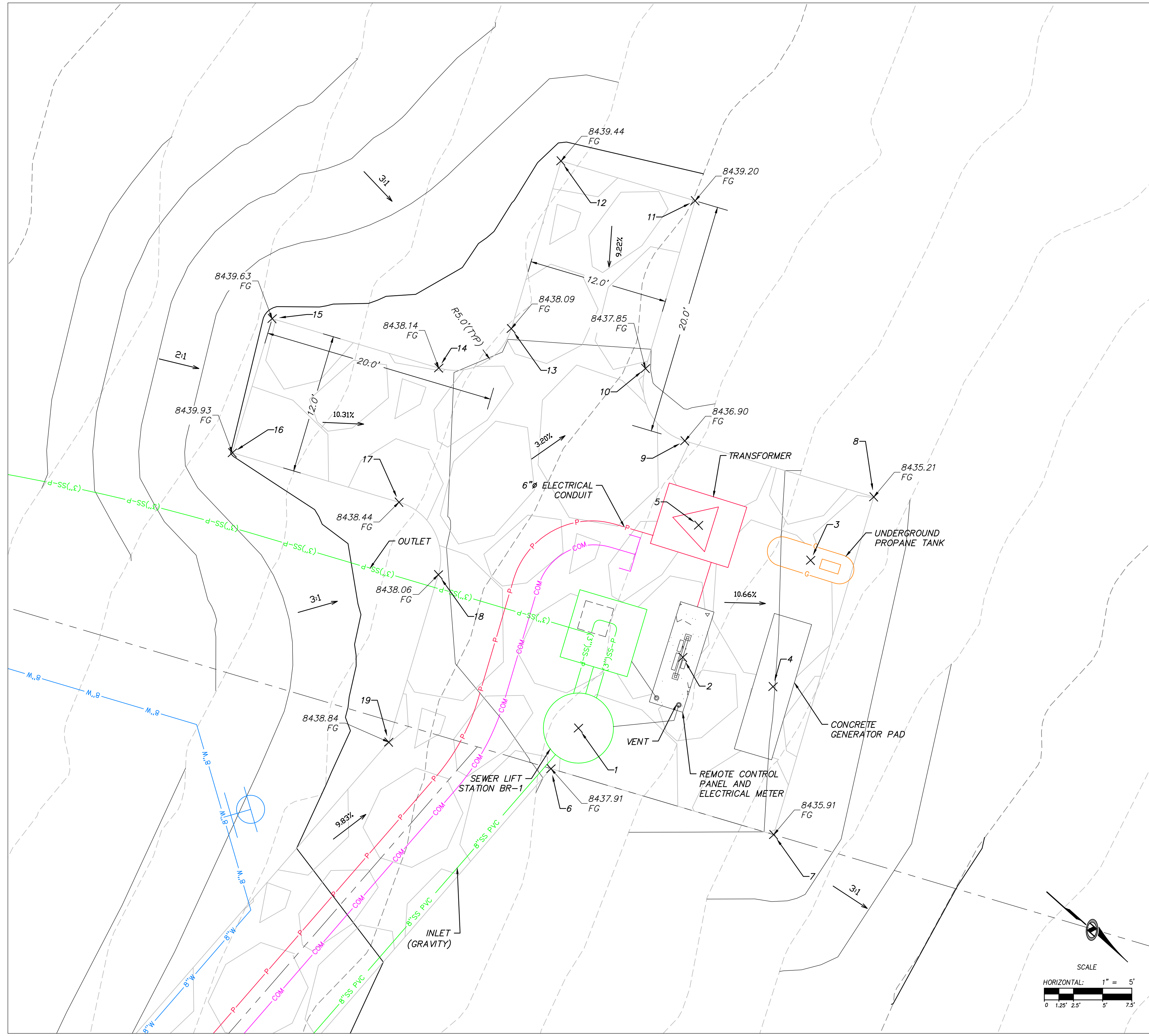


ESD 08-0022 REV. 2, 6/08

**E / ONE HIGH HEAD AND HIGH FLOW GP STATIONS**



VOLTAGE	PHASE	HIGH HEAD HP	HIGH FLOW HP
208V/230V	1	<input type="checkbox"/>	<input type="checkbox"/>
460V (3 PH ONLY)	3	<input type="checkbox"/>	<input type="checkbox"/>
		7.5	<input type="checkbox"/>



**PLAN VIEW**

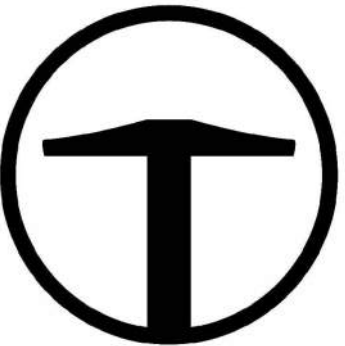
**LEGEND**

PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	AVERAGE FLOW (GPM) IN	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
BR-1	8430.50	8"	8419.50	72"	120	3	3"	2.5 ft/sec	2300	DUPLX 3000 SERIES	SUBMERSIBLE GRINDER PUMP E-ONE 3F31	3.15	CELLULAR	MANUAL	1 PHASE/240 VOLT

**GENERAL NOTES**

- LIFT STATIONS MUST BE COVERED WITH HS-20 LOAD RATED LIDS WHICH ARE SPRING LOADED FOR EASY OPENING.
- CHECK VALVES ON PUMP STATIONS SHALL BE BALL CHECK VALVES.
- PUMP STATION LEVEL SENSORS SHALL BE MERCURY FLOAT SWITCHES, SEE ELECTRICAL.
- OWNER TO PROVIDE A SPARE PUMP FOR EACH BRAND OF PUMP USED TO PMSID IN CASE OF PUMP FAILURE.

Point #	Northing	Easting
1	3654705.37	1571284.78
2	3654708.04	1571274.31
3	3654710.72	1571260.81
4	3654715.49	1571271.05
5	3654701.54	1571264.94
6	3654705.92	1571288.95
7	3654723.96	1571280.51
8	3654711.16	1571253.15
9	3654695.85	1571260.31
10	3654689.20	1571257.90
11	3654682.85	1571244.32
12	3654671.98	1571249.41
13	3654678.34	1571262.99
14	3654662.43	1571275.95
15	3654662.43	1571275.95
16	3654667.51	1571286.82
17	3654681.01	1571280.50
18	3654687.66	1571282.91
19	3654694.00	1571296.47

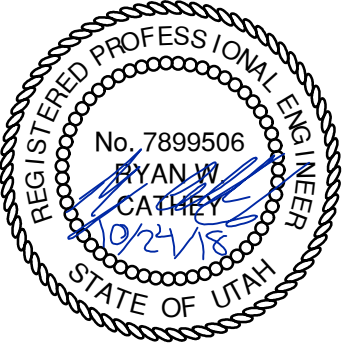


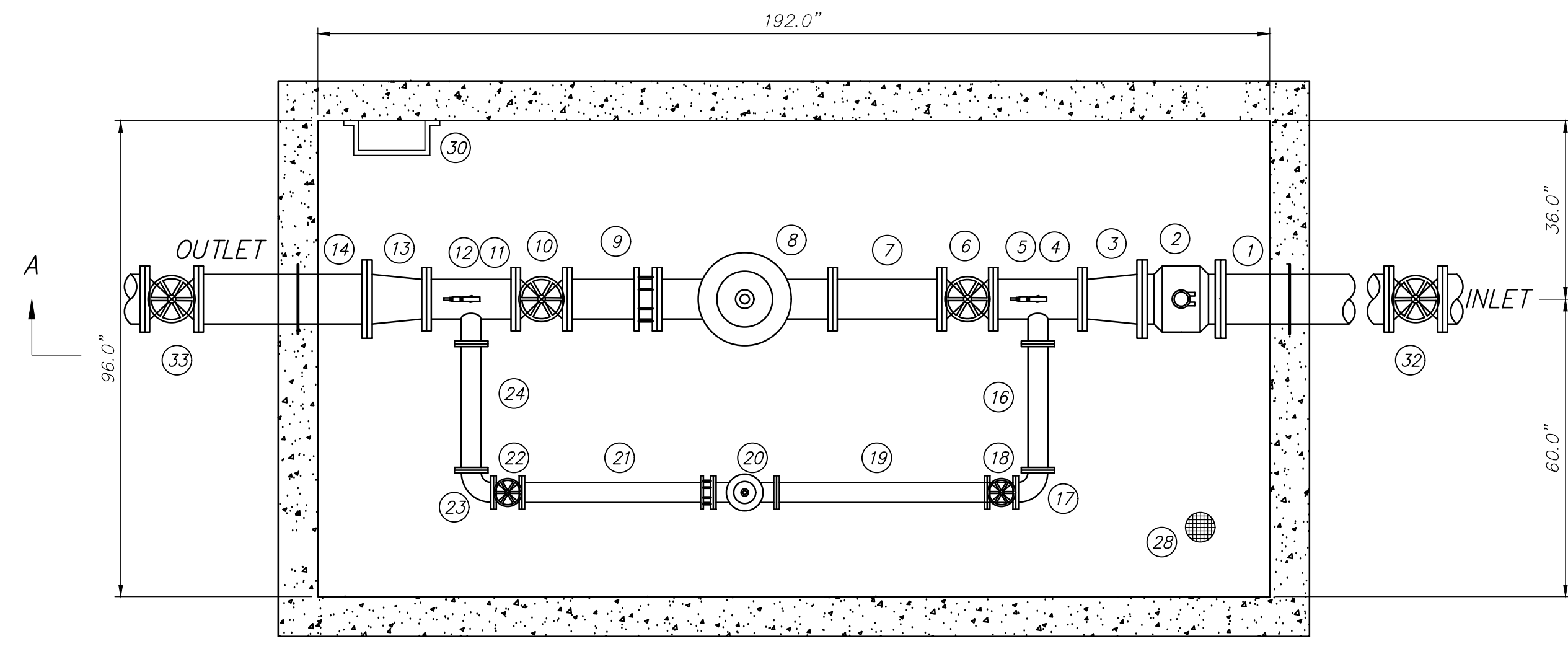
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**BOBCAT RIDGE AT S.P.M.**  
SEWER GRINDER STATION DETAILS  
BR-1 ASPEN DRIVE SEWER GRINDER STATION

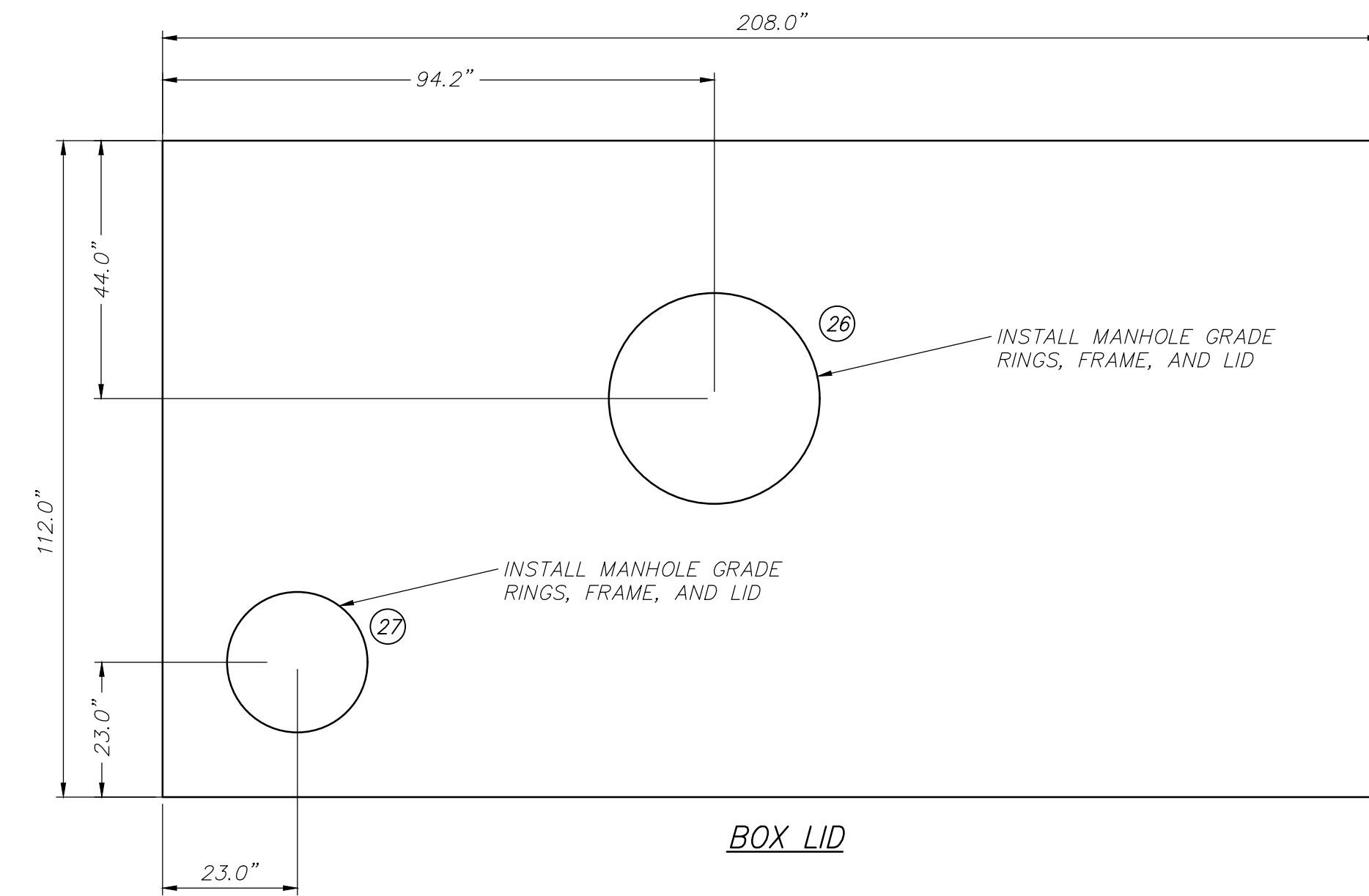
DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22

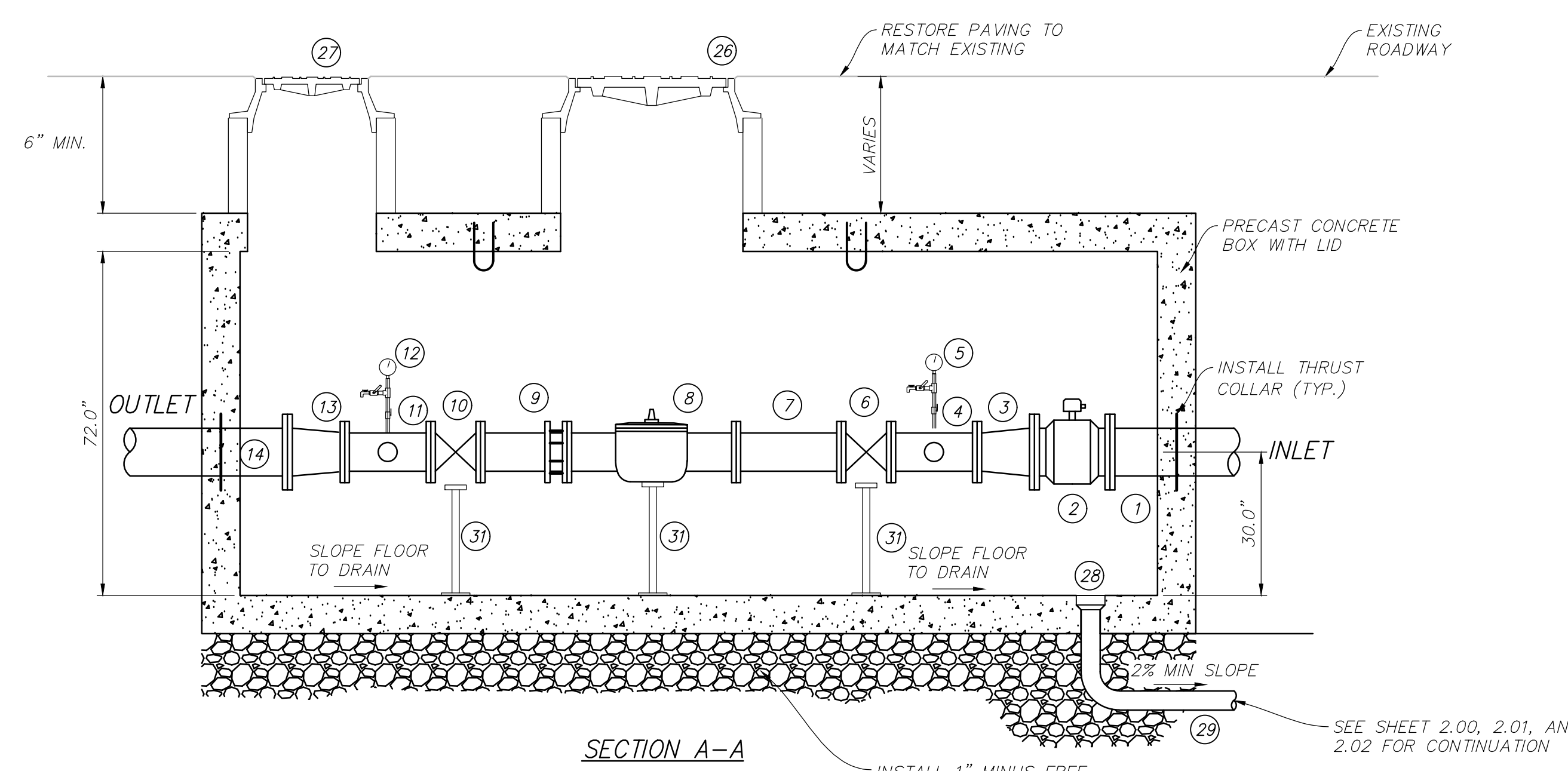




PLAN



BOX LID



SECTION A-A

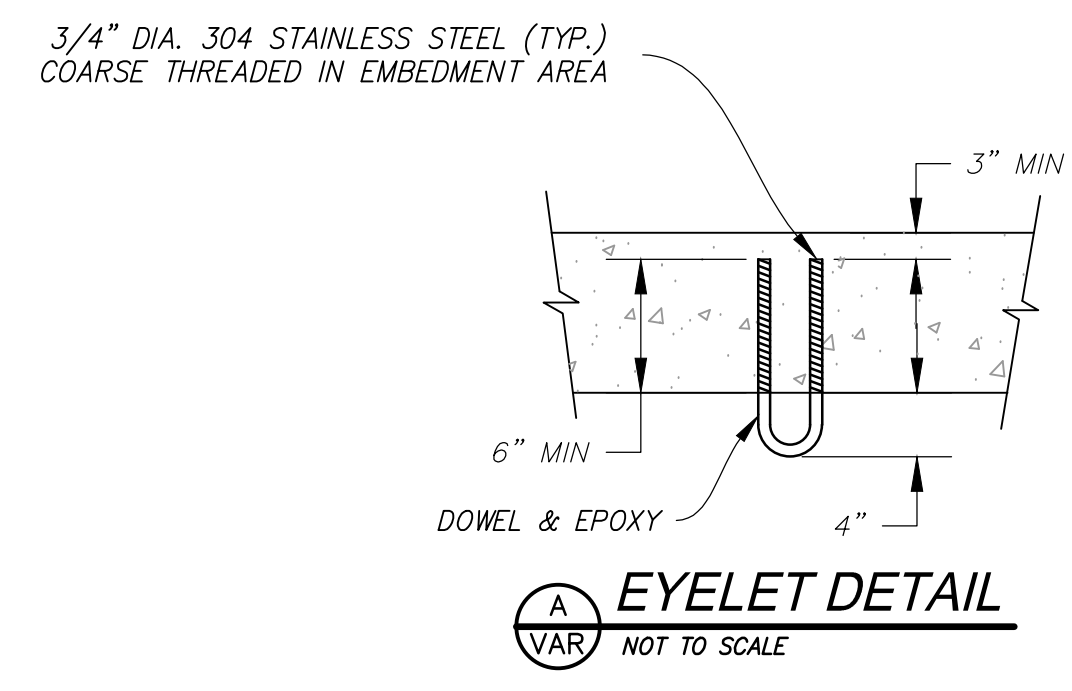
PRV VAULT #1 PRESSURES

<b>MAINLINE PRESSURE</b>	
-INLET: 90 PSI	
-OUTLET: 60 PSI	
<b>BYPASS PRESSURE</b>	
-INLET: 90 PSI	
-OUTLET: 60 PSI	

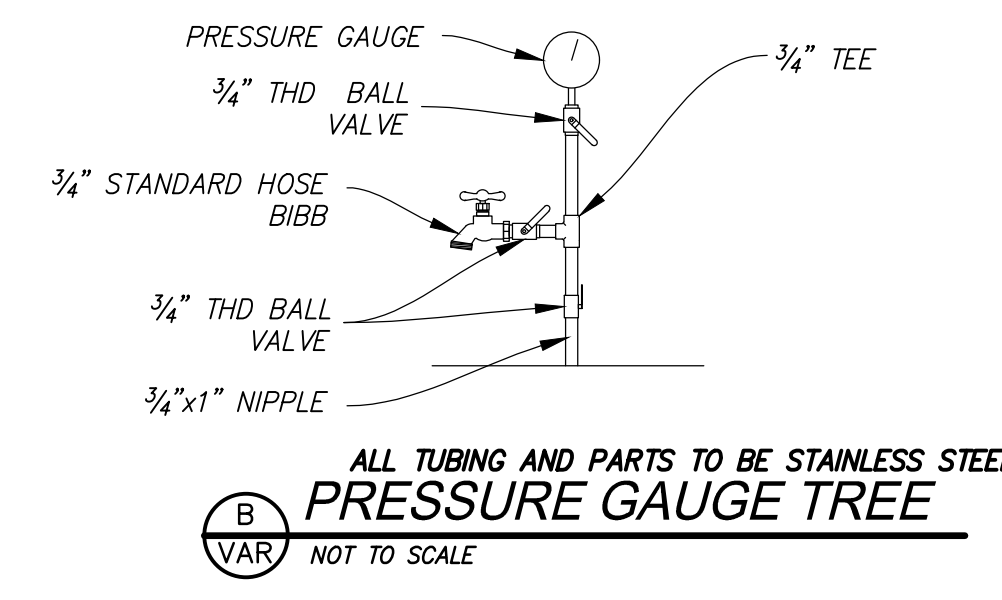
NUMBER	DESCRIPTION	MAKE	SIZE/DIA	LENGTH	ACTION
1	INLET		10	[1]	INSTALL NEW
2	METER		6	15.8	INSTALL NEW KROHNE ENVIROMAG 2000 METER
3	REDUCER		10X6	12	INSTALL NEW
4	TEE		6X4	18	INSTALL NEW
5	GAUGE TREE				INSTALL NEW PER DETAIL B THIS SHEET
6	GV	MUELLER	6	13	INSTALL NEW
7	SPOOL		6	[1]	INSTALL NEW
8	PRV	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	POLYPROPYLENE MANHOLE STEPS				INSTALL NEW SPACED AT 12" O.C. PER MANUFACTURER'S SPECIFICATIONS
31	PIPE SUPPORT				INSTALL NEW PER DETAIL D, THIS SHEET
32	GV	MUELLER	10		INSTALL NEW
33	GV	MUELLER	10		INSTALL NEW

GENERAL NOTES

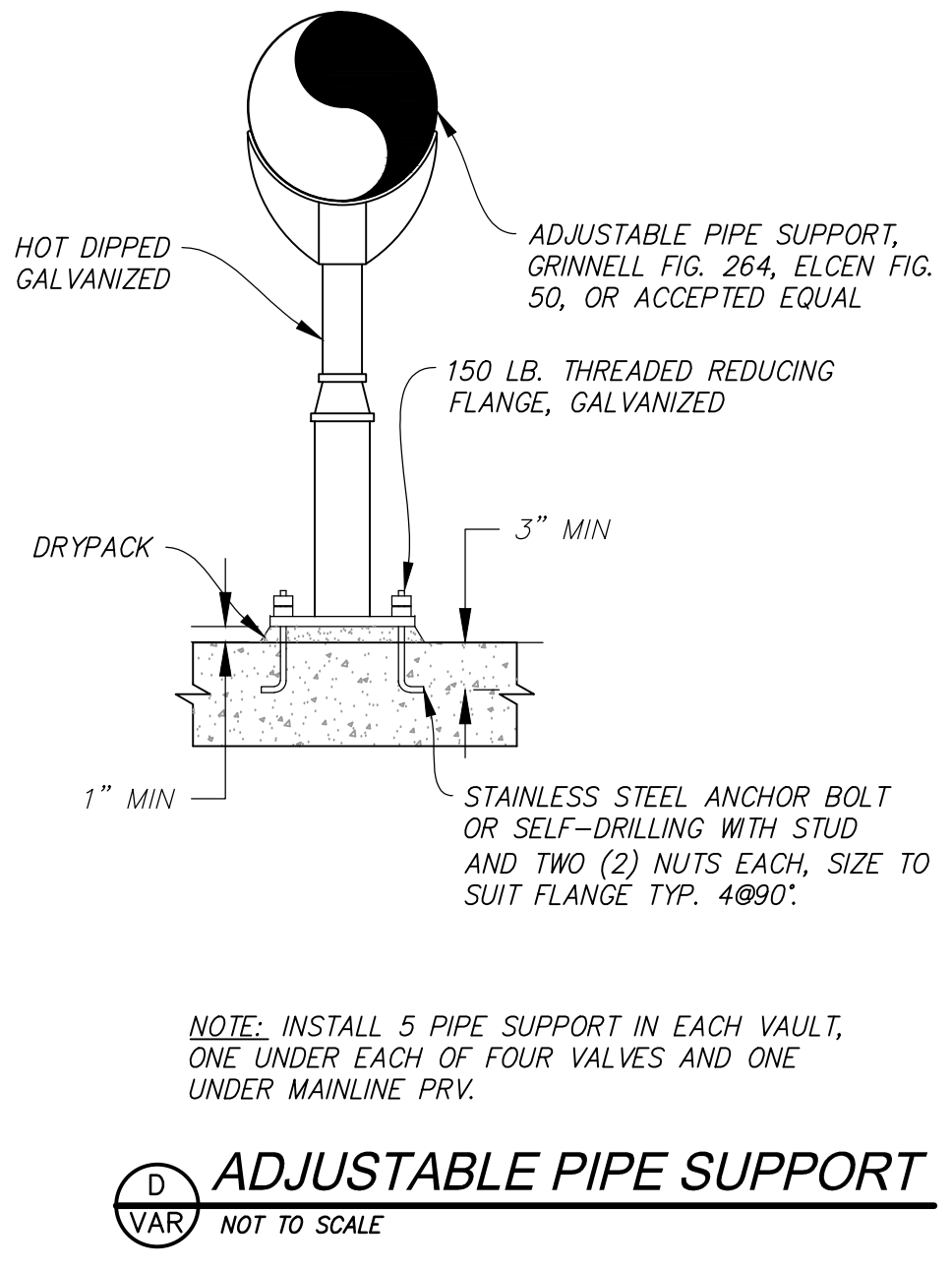
- OWNER SHALL PROVIDE A PORTABLE GENERATOR TO PMWSID PRIOR TO SUBSTANTIAL COMPLETION TO PROVIDE TEMPORARY POWER FOR MAINTENANCE OF PRVS.



A EYELET DETAIL  
NOT TO SCALE



B PRESSURE GAUGE TREE  
NOT TO SCALE

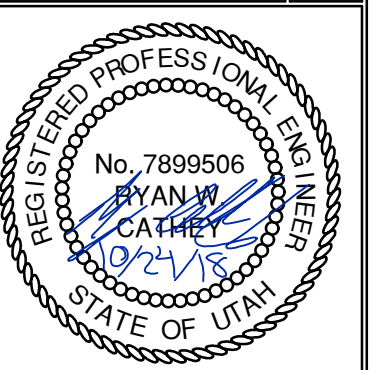


D ADJUSTABLE PIPE SUPPORT  
NOT TO SCALE

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

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.  
PRV DETAILS



DATE: 10/24/2018 12:19 PM

PATH: N:\SL80793\Cadd\18-200-22-gather estates lots - bobcat ridge\18-200-22-dry utility plan key map.dwg



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SUITE 200  
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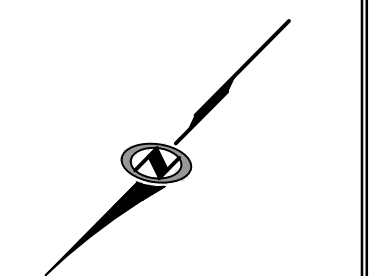
NO.	BY	DATE	REVISIONS

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200-22

# BOBCAT RIDGE AT S.P.M. DRY UTILITY PLAN KEY MAP

**PRELIMINARY**

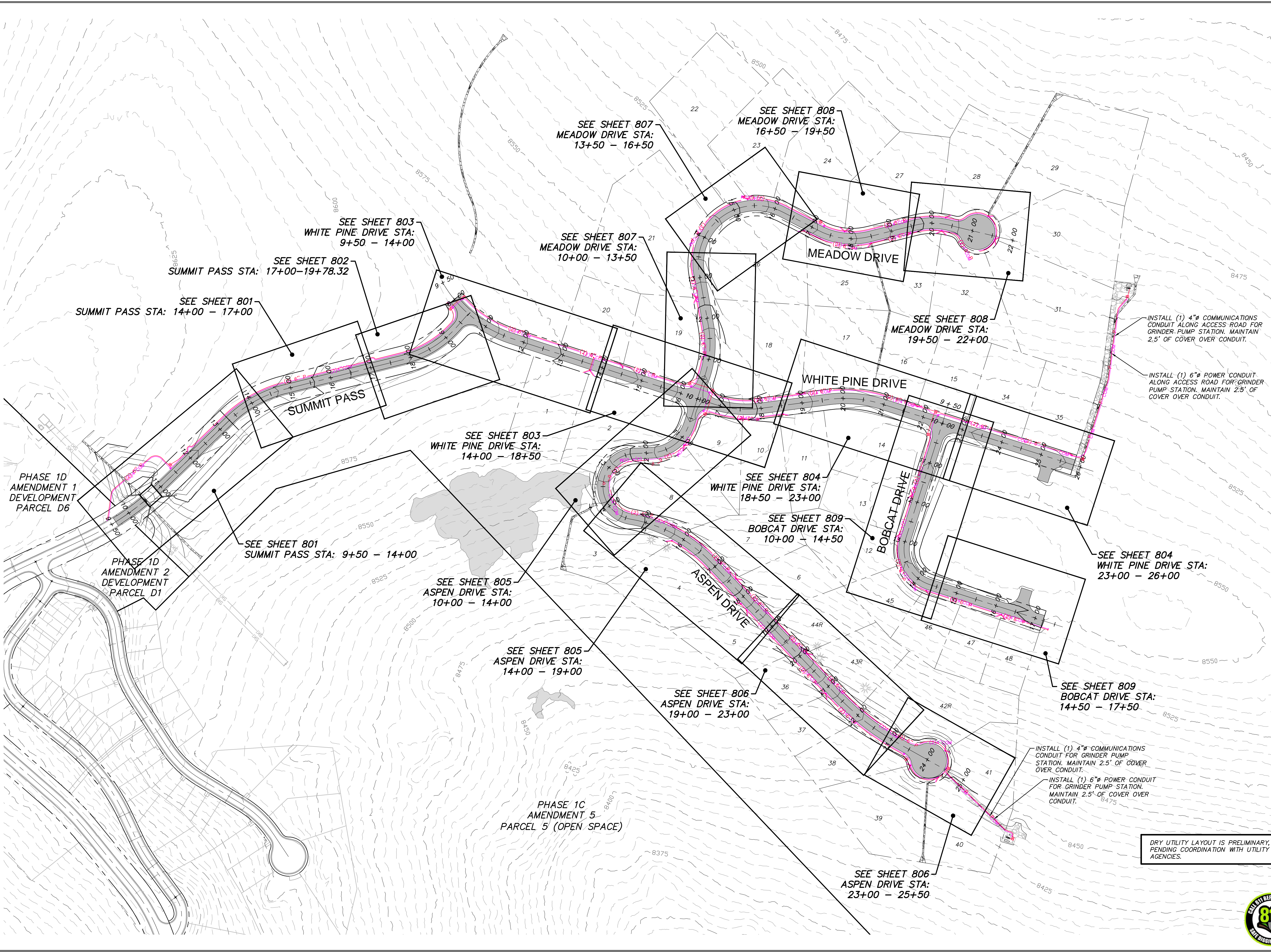


SCALE  
HORIZONTAL: 1" = 100'  
0 25 50 100 150'

SHEET NUMBER  
**800**  
51 OF 61

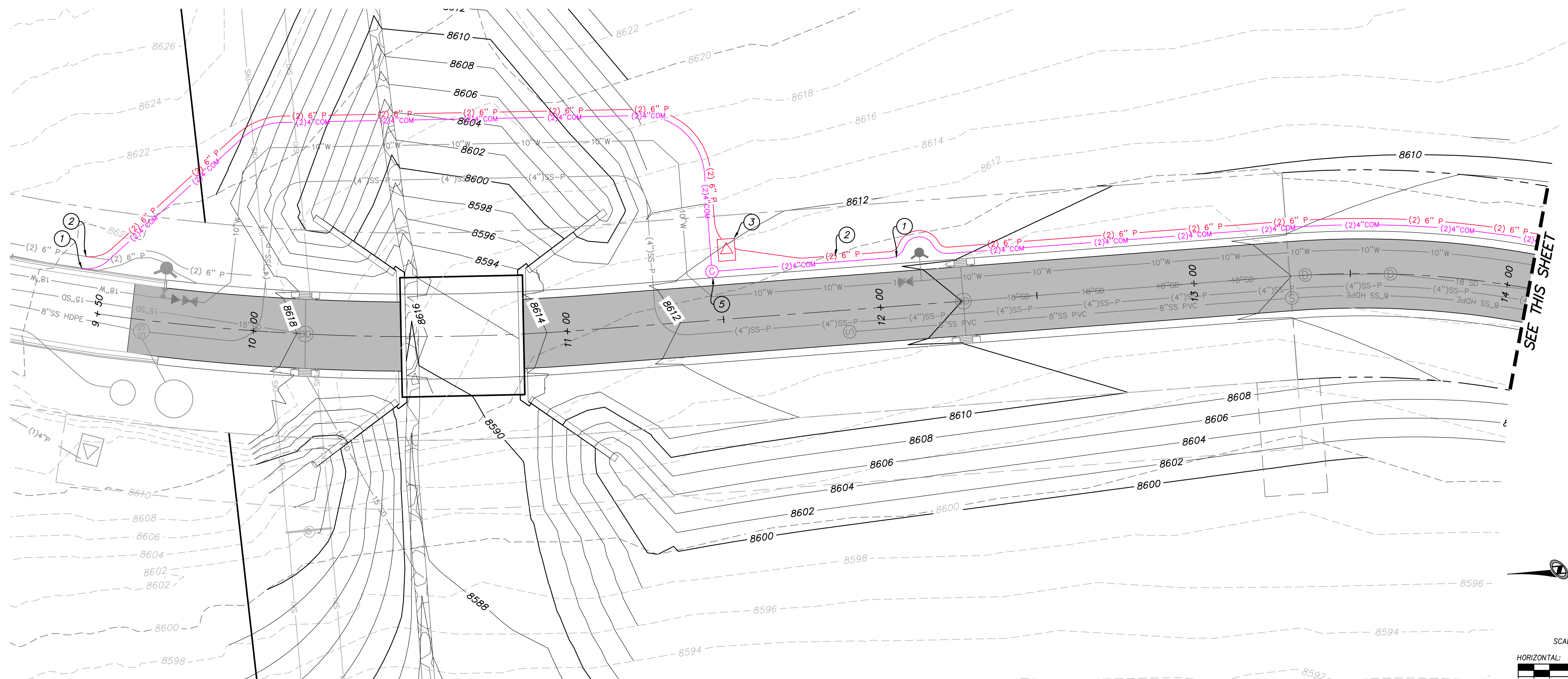


DRY UTILITY LAYOUT IS PRELIMINARY,  
PENDING COORDINATION WITH UTILITY  
AGENCIES.

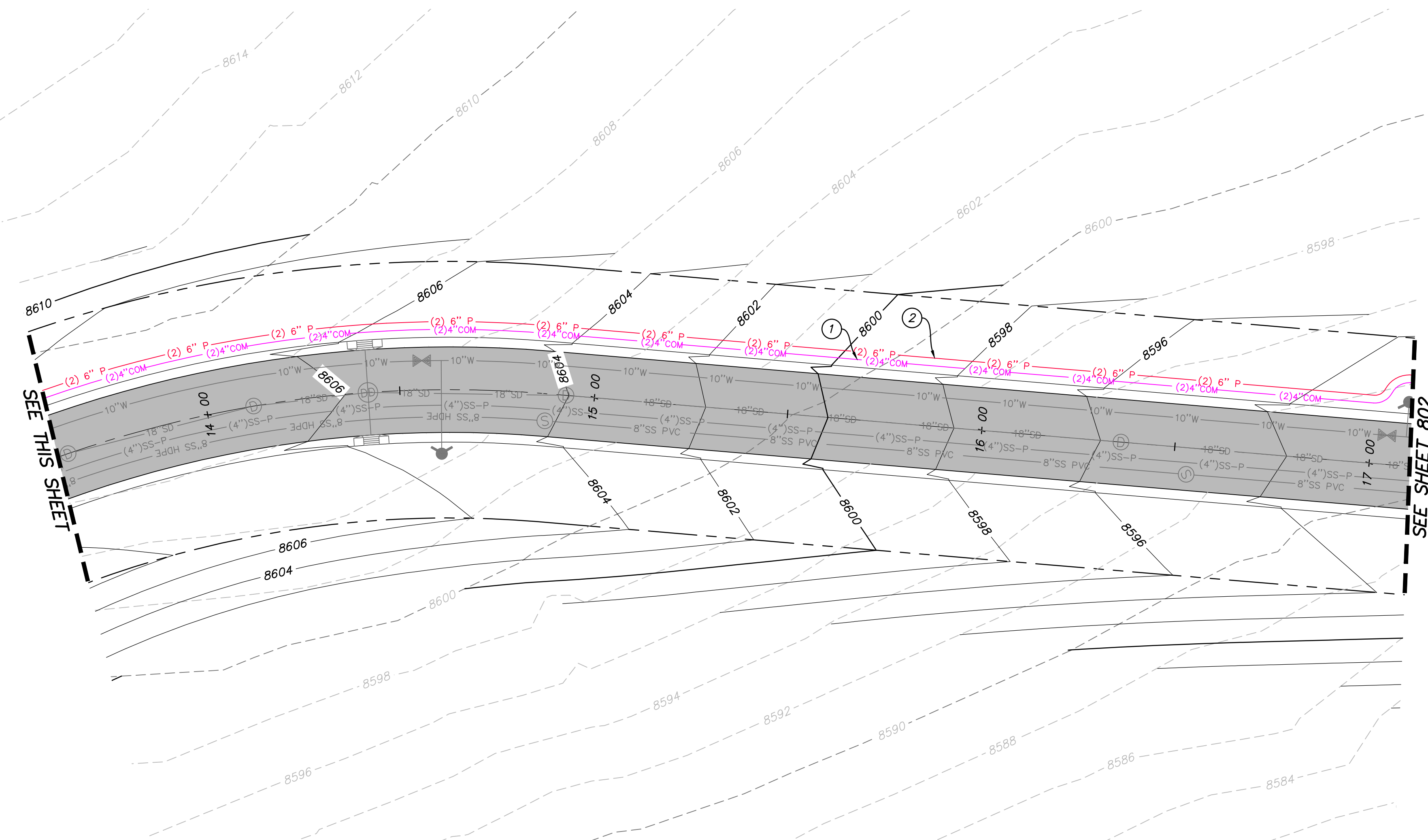


DATE: 10/24/2018 2:49 PM

PATH: N:\SIBD793\Cadd\18-200-22-gather estate lots - bobcat ridge\UP\801 DRY UTILITY PLAN.dwg



SUMMIT PASS STA: 9+50 - 14+00



SUMMIT PASS STA: 14+00 - 17+00

**UTILITY SCOPE OF WORK:**

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 INSTALL 2x4" COMMUNICATIONS CONDUIT
- ② INSTALL 2x6" ELECTRICAL CONDUIT
- ③ TRANSFORMER SUPPLIED AND INSTALLED BY RMP (2-ELBOWS REQ'D)
- ④ TRANSFORMER SUPPLIED AND INSTALLED BY RMP (3-ELBOWS REQ'D)
- ⑤ INSTALL COMMUNICATIONS VAULT CARSON H2436-36
- ⑥ INSTALL 2x4" COMMUNICATIONS CONDUIT, CAP AND MARK
- ⑦ INSTALL 2x6" ELECTRICAL CONDUIT, CAP AND MARK
- ⑧ SECONDARY ELECTRICAL BOXES & SERVICE SUPPLIED AND INSTALLED BY OTHERS (2-ELBOW REQ'D)
- ⑨ SECONDARY ELECTRICAL BOXES & SERVICE SUPPLIED AND INSTALLED BY OTHERS (3-ELBOW REQ'D)
- ⑩ INSTALL COMMUNICATIONS JUNCTION BOX CARSON LT324-15



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5217 SOUTH STATE STREET  
SUITE 200  
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NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**

**DRY UTILITY PLAN**

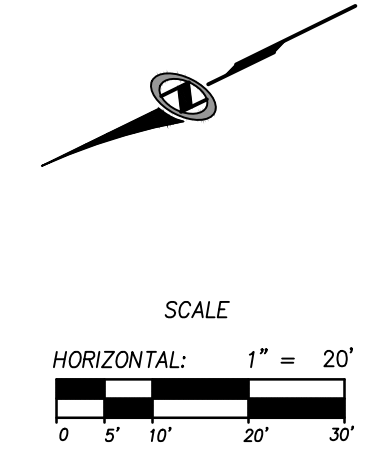
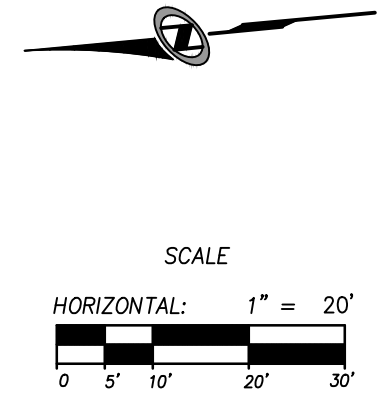
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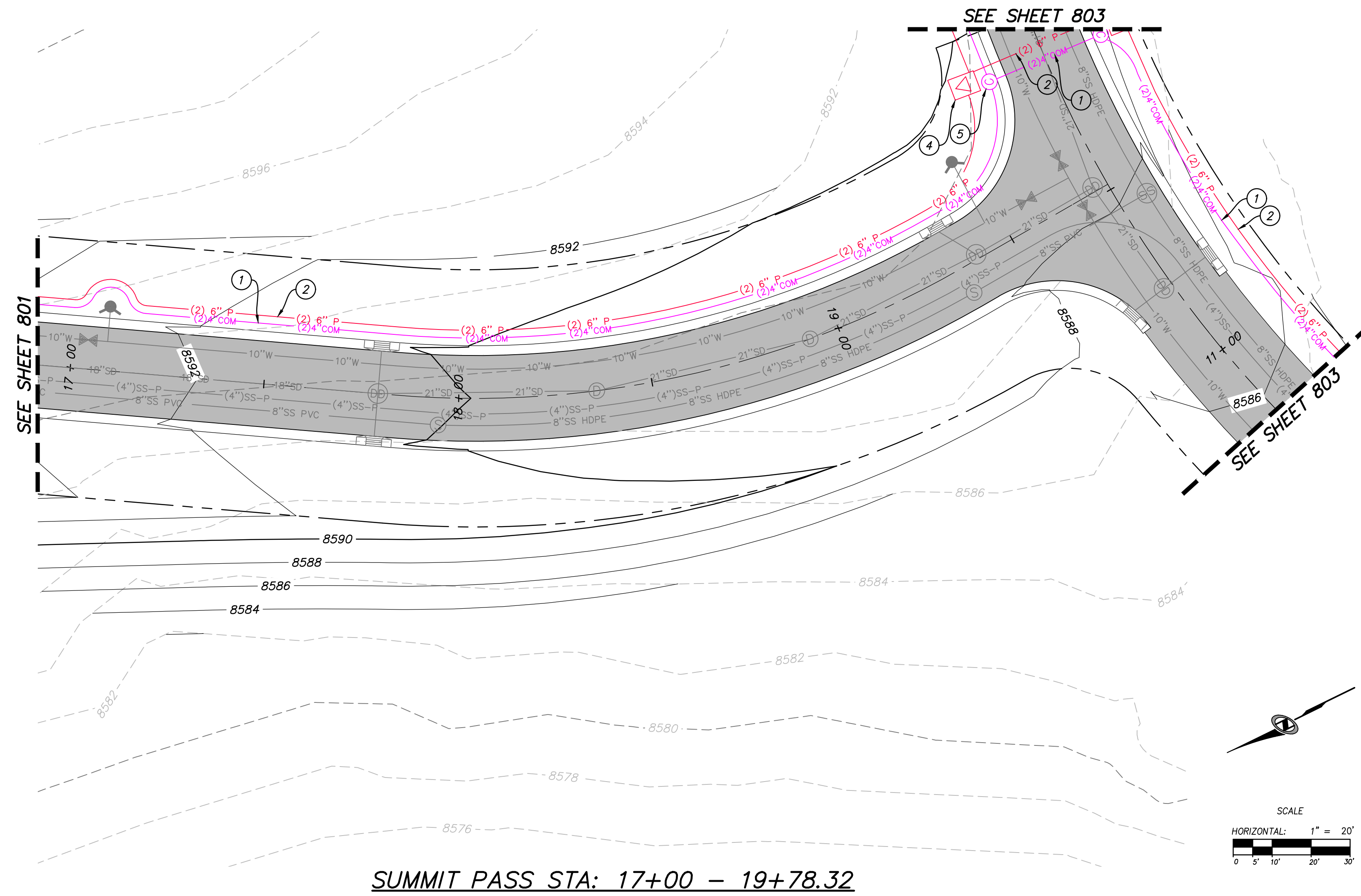
DATE SUBMITTED: 10/24/2018

TCC JOB NUMBER: 18.200.22

**PRELIMINARY**

SHEET NUMBER  
**801**  
52 OF 61





**UTILITY SCOPE OF WORK:**

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:

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- ⑤ INSTALL COMMUNICATIONS VAULT CARSON H2436-36
- ⑥ INSTALL 2x4" COMMUNICATIONS CONDUIT, CAP AND MARK
- ⑦ INSTALL 2x6" ELECTRICAL CONDUIT, CAP AND MARK
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- ⑩ INSTALL COMMUNICATIONS JUNCTION BOX CARSON L1324-15



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

NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
DRY UTILITY PLAN  
SUMMIT PASS STA: 17+00 - 19+78.32

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18-200.22

**PRELIMINARY**



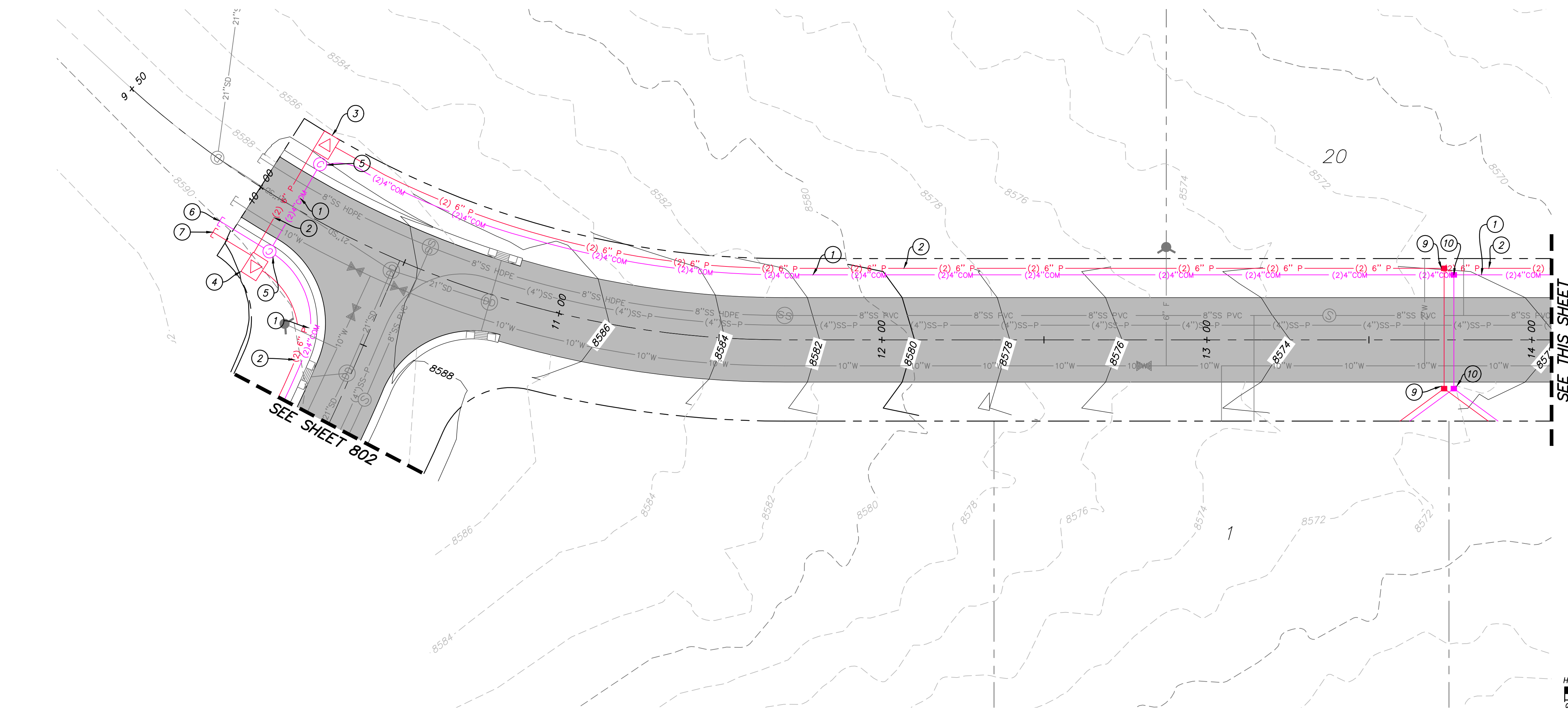
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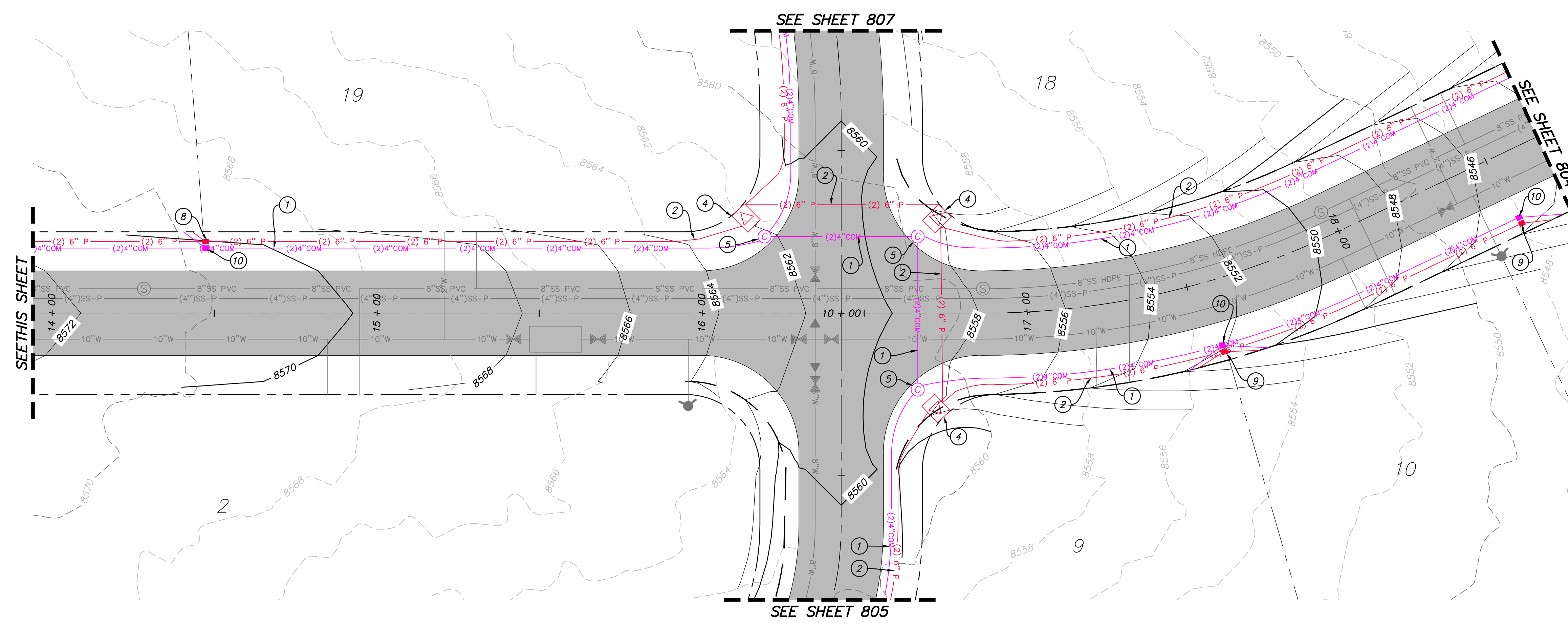
53 OF 61

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WHITE PINE DRIVE STA: 9+50 - 14+00



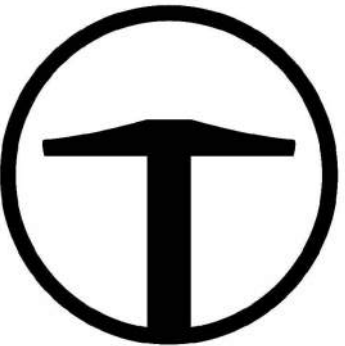
WHITE PINE DRIVE STA: 14+00 - 18+50

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- ⑩ INSTALL COMMUNICATIONS JUNCTION BOX CARSON L1324-15



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**BOBCAT RIDGE AT S.P.M.**  
 DRY UTILITY PLAN  
 WHITE PINE DRIVE STA: 9+50 - 18+50

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22

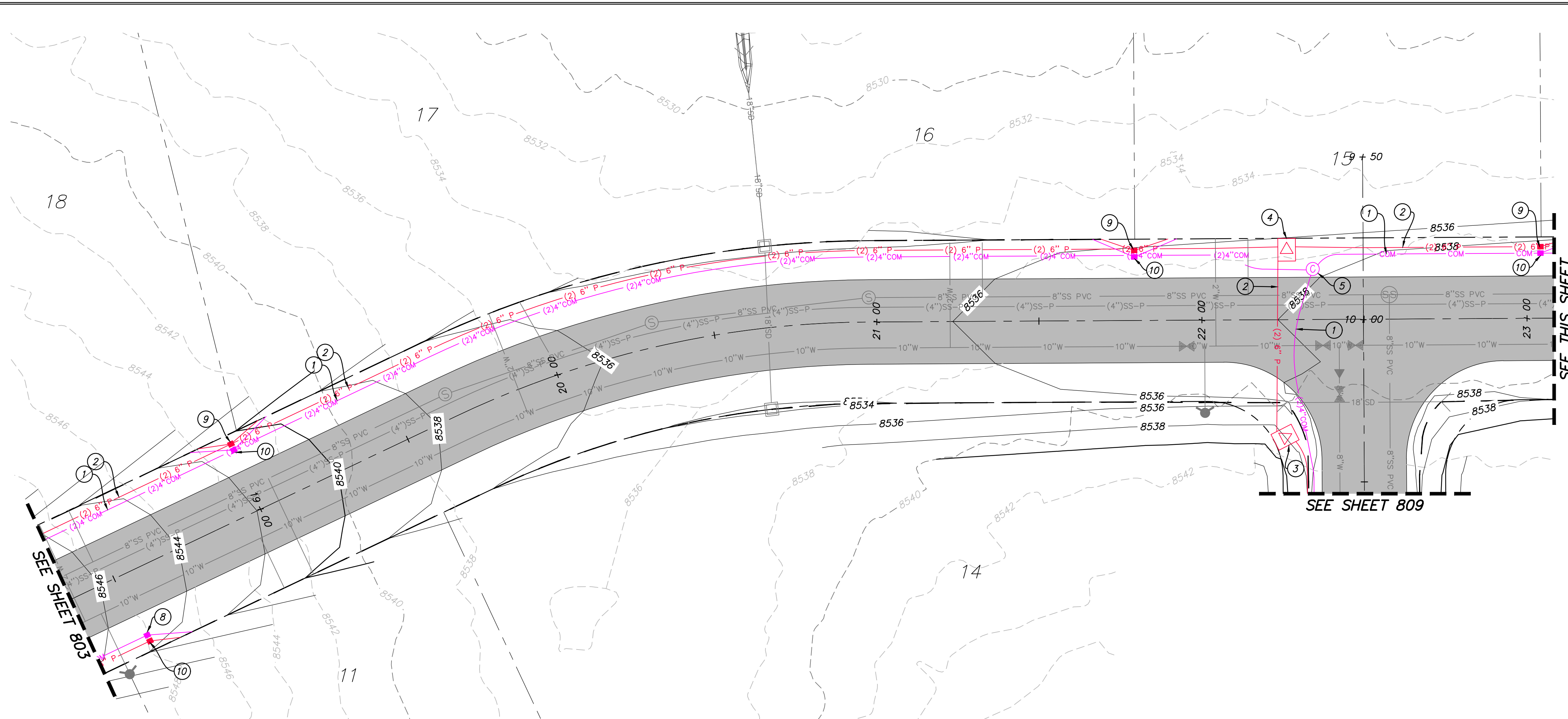
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SHEET NUMBER  
**803**  
54 OF 61

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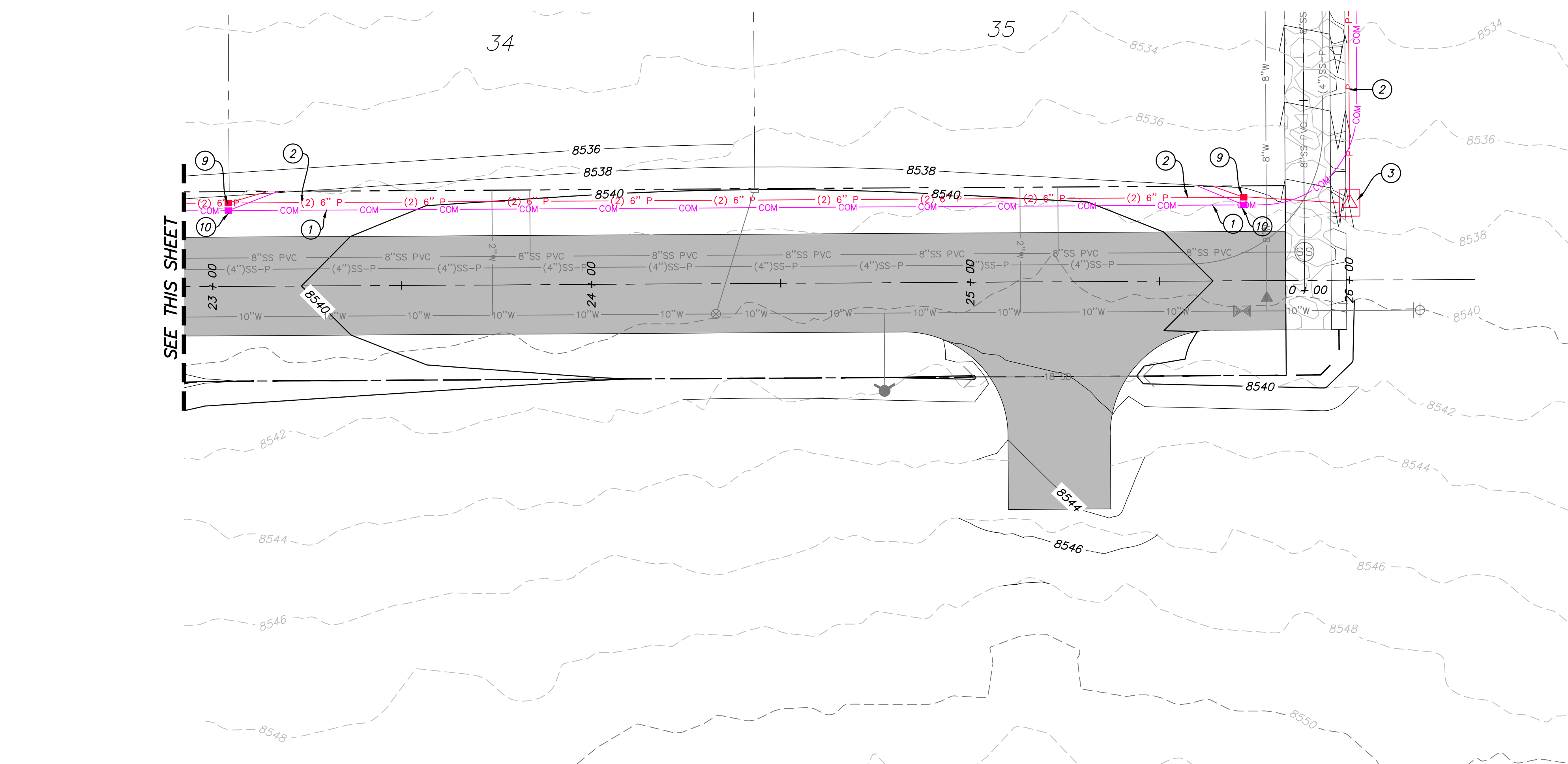
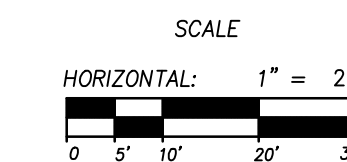
WHITE PINE DRIVE STA: 18+50 - 23+00

**UTILITY SCOPE OF WORK:**

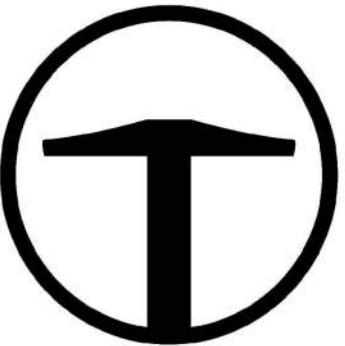
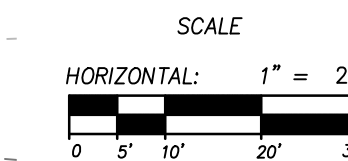
DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

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- ⑩ INSTALL COMMUNICATIONS JUNCTION BOX CARSON LT324-15



WHITE PINE DRIVE STA: 23+00 - 26+00



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801.743.1300

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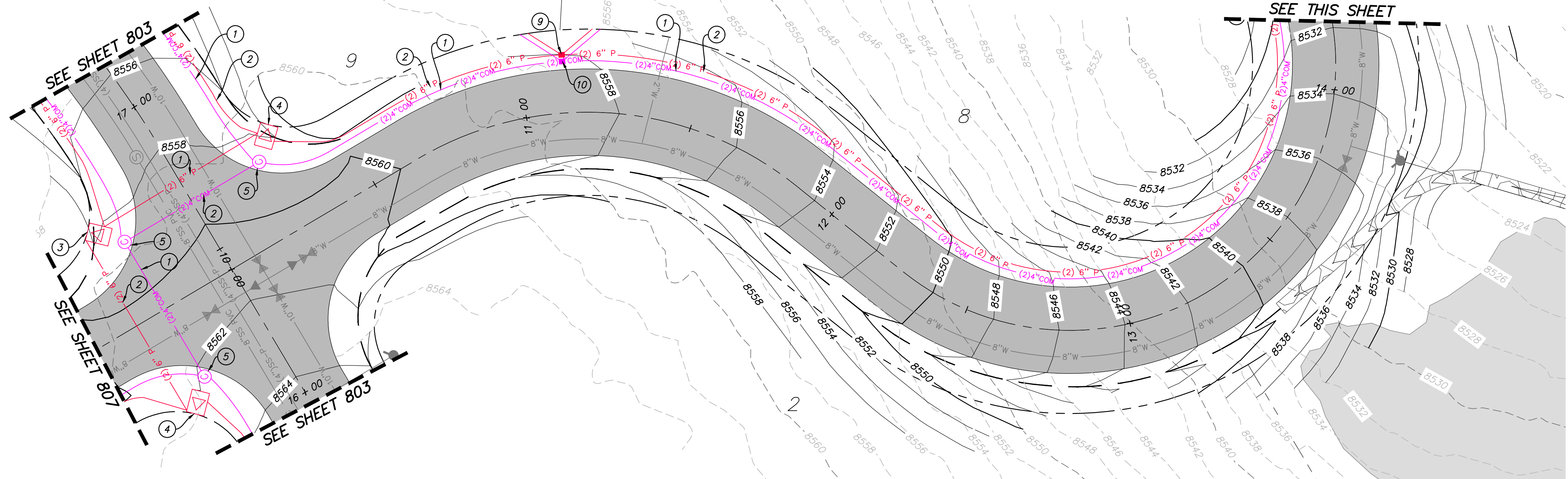
**BOBCAT RIDGE AT S.P.M.**  
**DRY UTILITY PLAN**  
**WHITE PINE DRIVE STA: 18+50 - 26+00**  
 TCC JOB NUMBER: 18-200-22 DATE SUBMITTED: 10.24.2018

**PRELIMINARY**

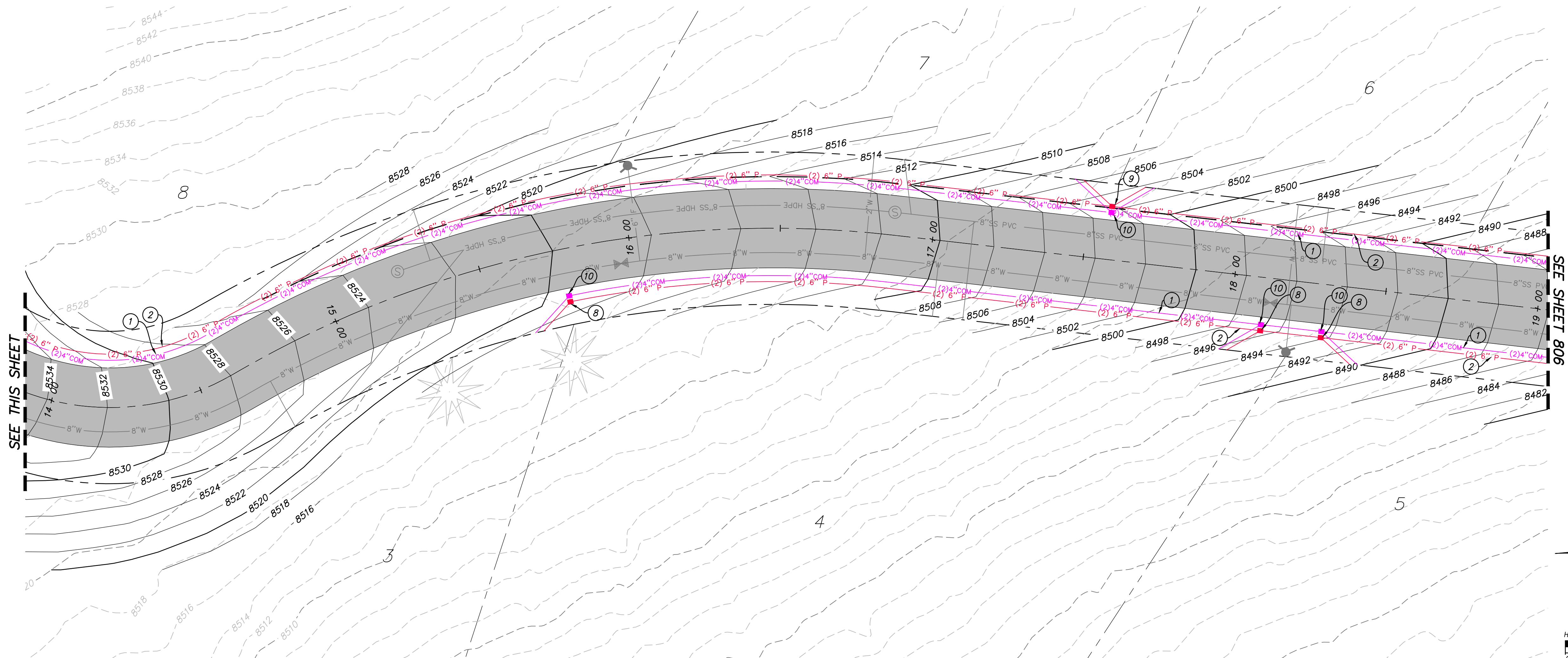


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ASPEN DRIVE STA: 10+00 - 14+00

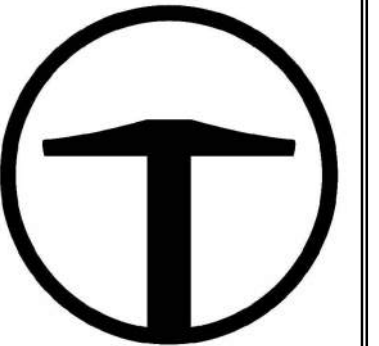


ASPEN DRIVE STA: 14+00 - 19+00

**UTILITY SCOPE OF WORK:**

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- ⑩ INSTALL COMMUNICATIONS JUNCTION BOX CARSON L1324-15



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NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
**DRY UTILITY PLAN**  
 ASPEN DRIVE STA: 10+00 - 19+00  
 TCC JOB NUMBER: 18.200.22  
 DATE SUBMITTED: 10.24.2018

**PRELIMINARY**

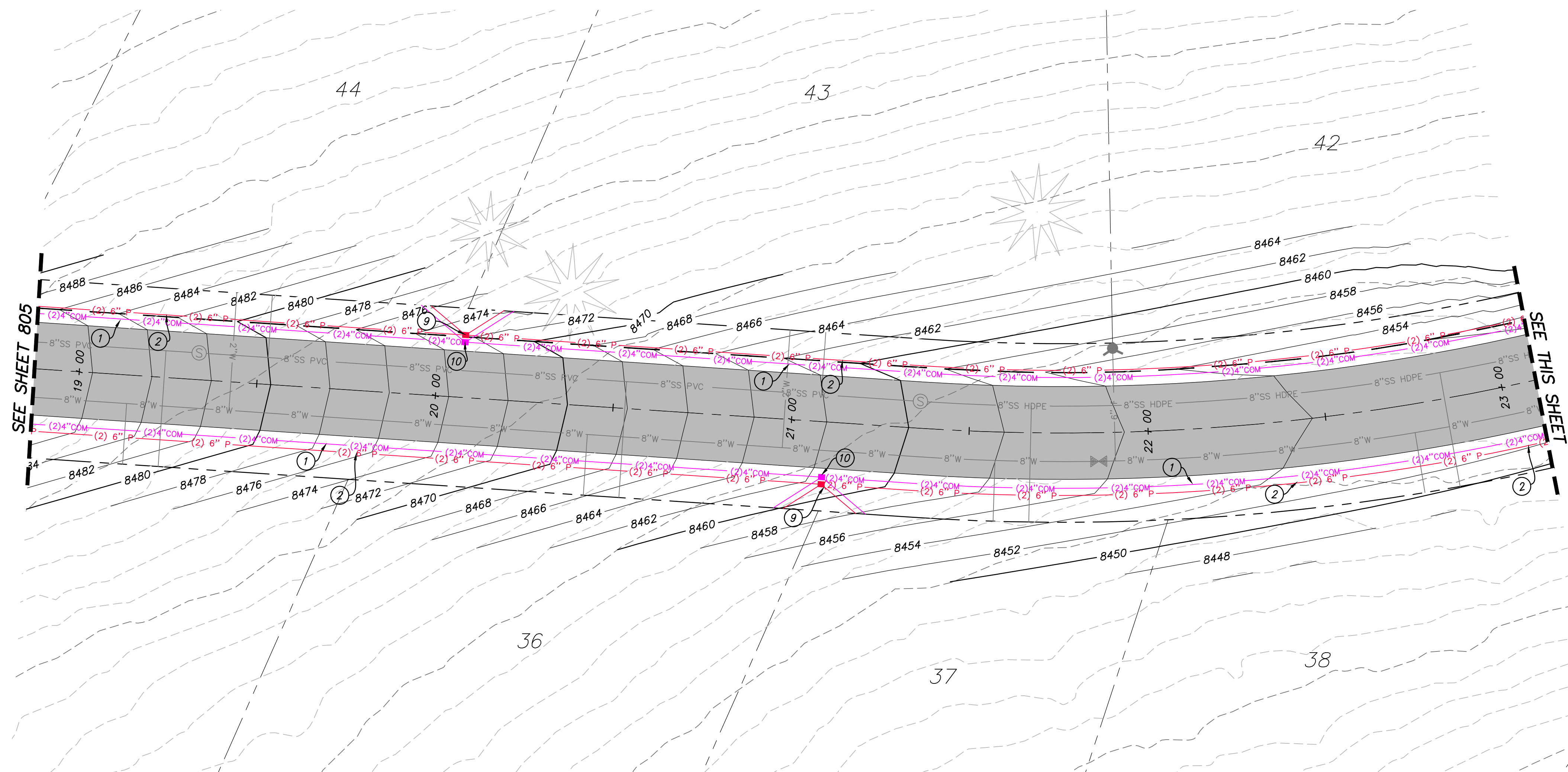
SHEET NUMBER  
**805**  
 56 OF 61



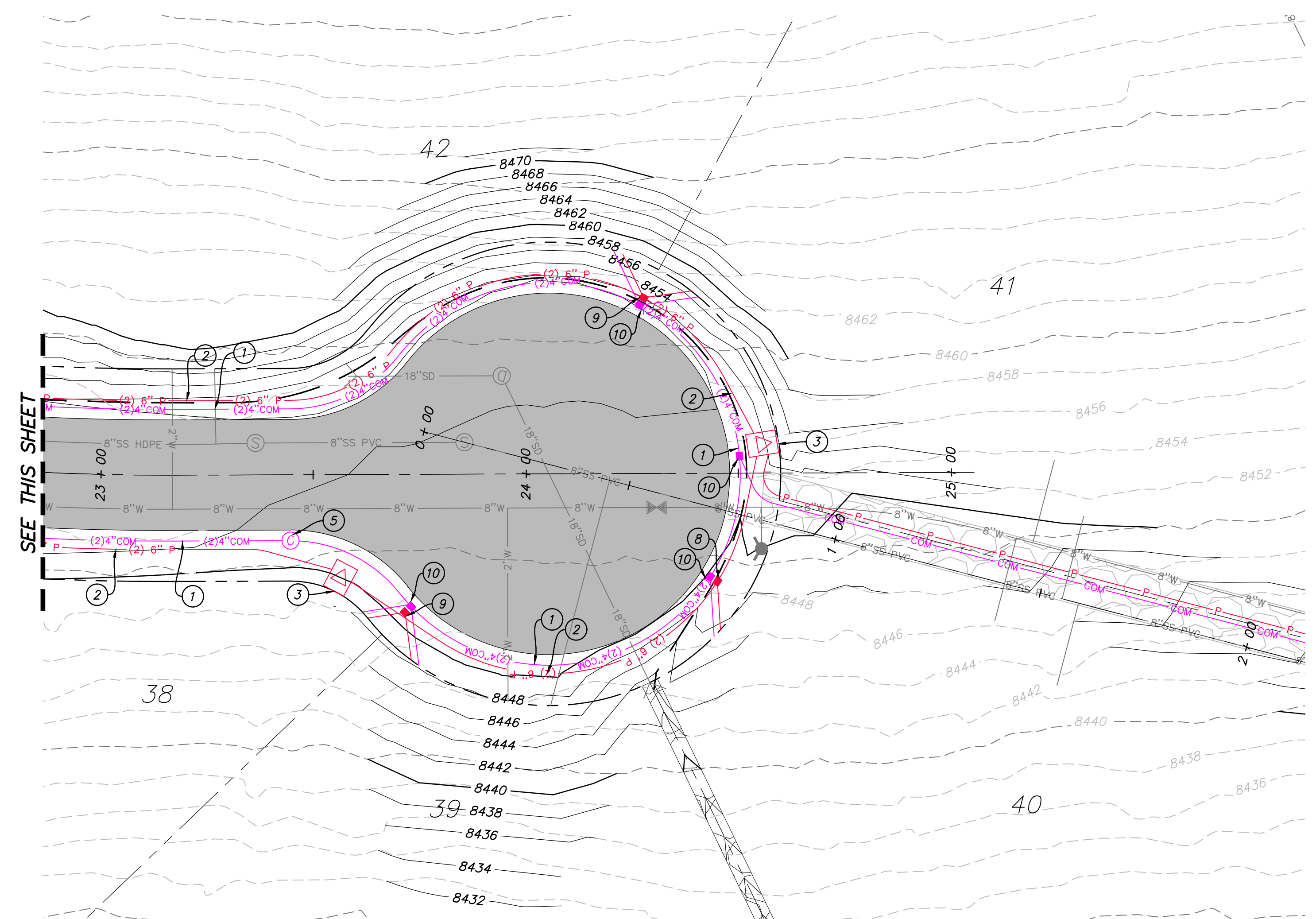


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ASPEN DRIVE STA: 19+00 - 23+00



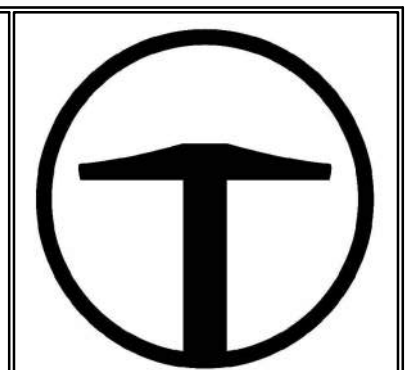
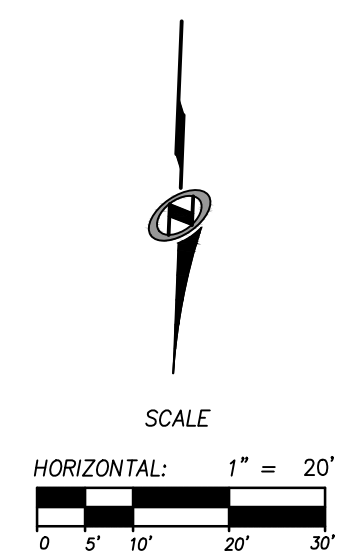
ASPEN DRIVE STA: 23+00 - 25+00

**UTILITY SCOPE OF WORK:**

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NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 DRY UTILITY PLAN  
 ASPEN PINE STA: 19+00 - 25+00  
 TCC JOB NUMBER: 18.200.22  
 DATE SUBMITTED: 10.24.2018

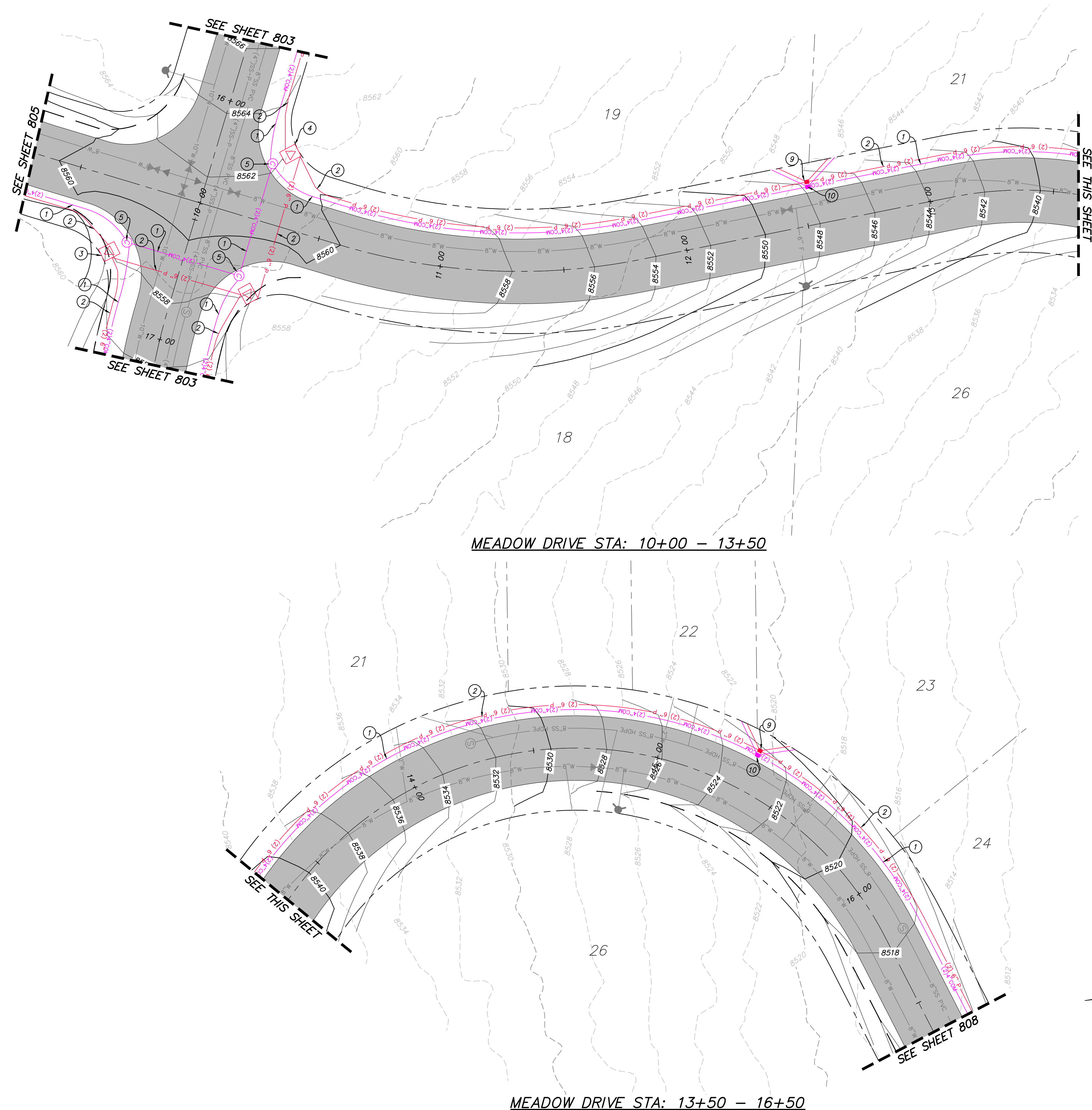
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SHEET NUMBER  
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57 OF 61

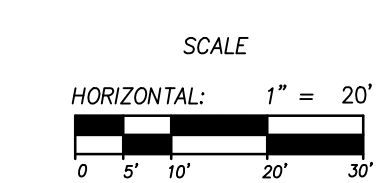
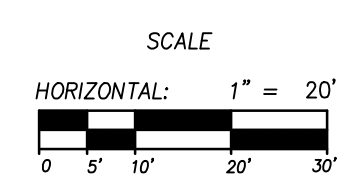
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MEADOW DRIVE STA: 10+00 - 13+50

MEADOW DRIVE STA: 13+50 - 16+50

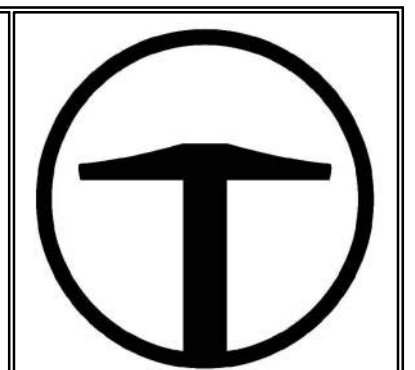


**UTILITY SCOPE OF WORK:**

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CIVIL CONSULTANTS  
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SUITE 200  
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NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
DRY UTILITY PLAN  
MEADOW DRIVE STA: 10+00 - 16+50  
DATE SUBMITTED: 10.24.2018  
TCC JOB NUMBER: 18.200.22

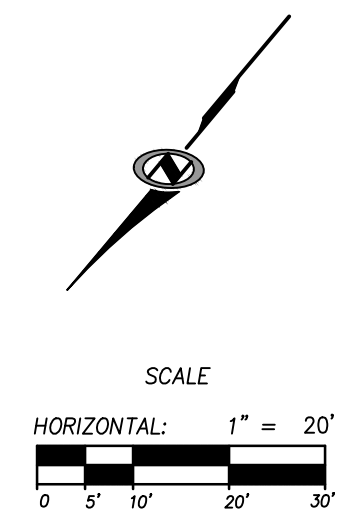
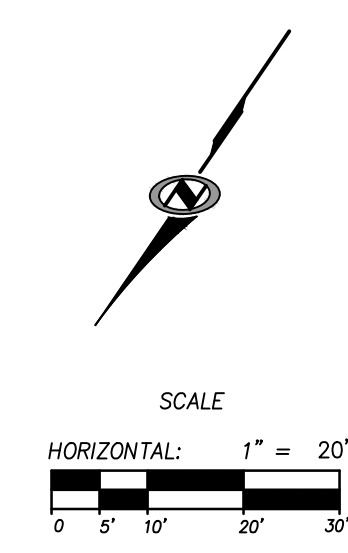
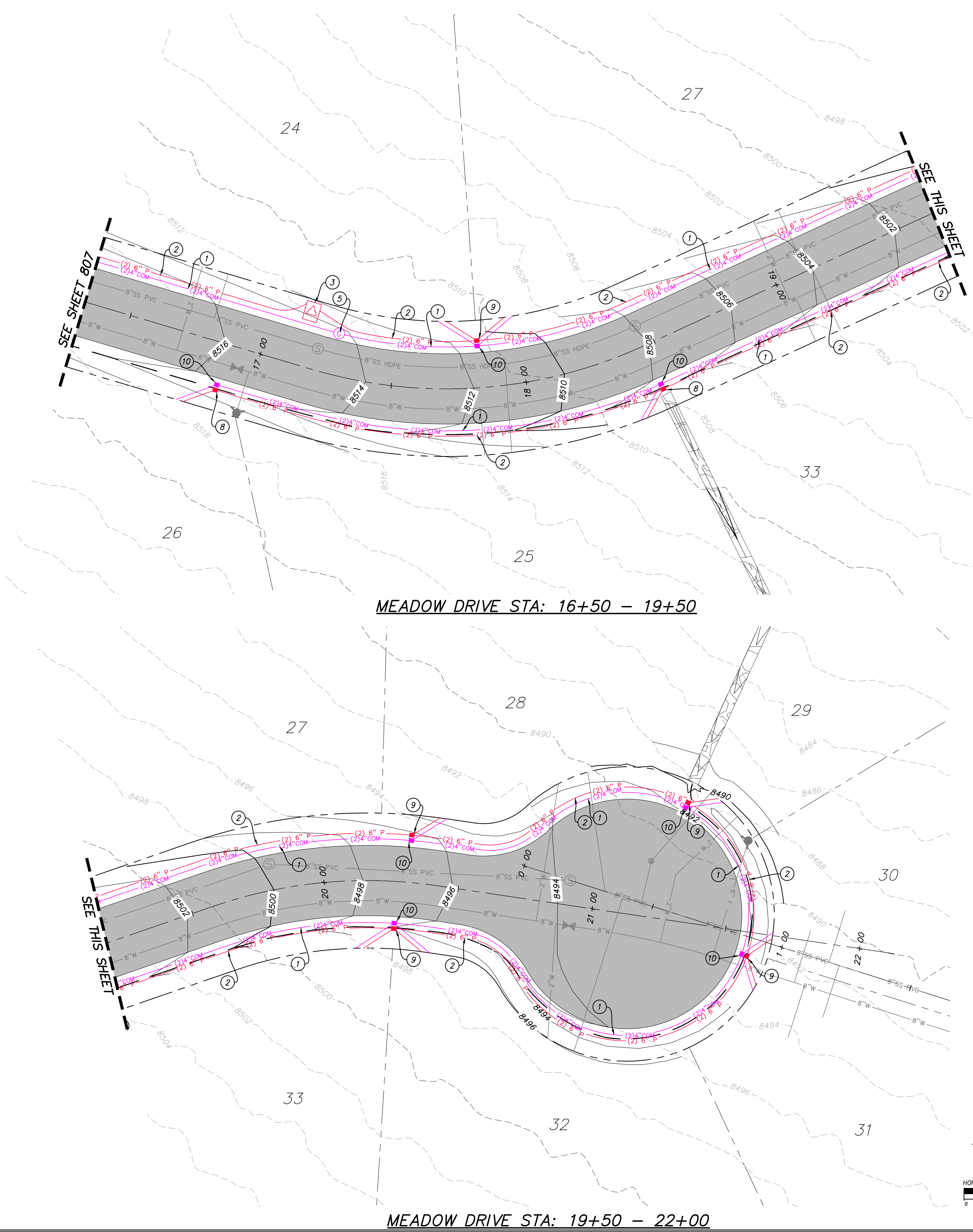
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SHEET NUMBER  
**807**  
58 OF 61

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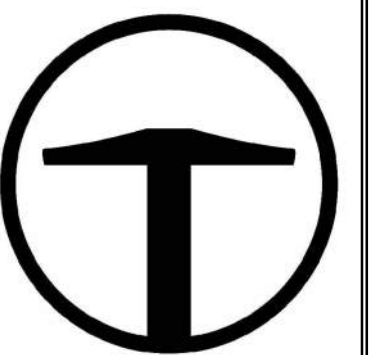


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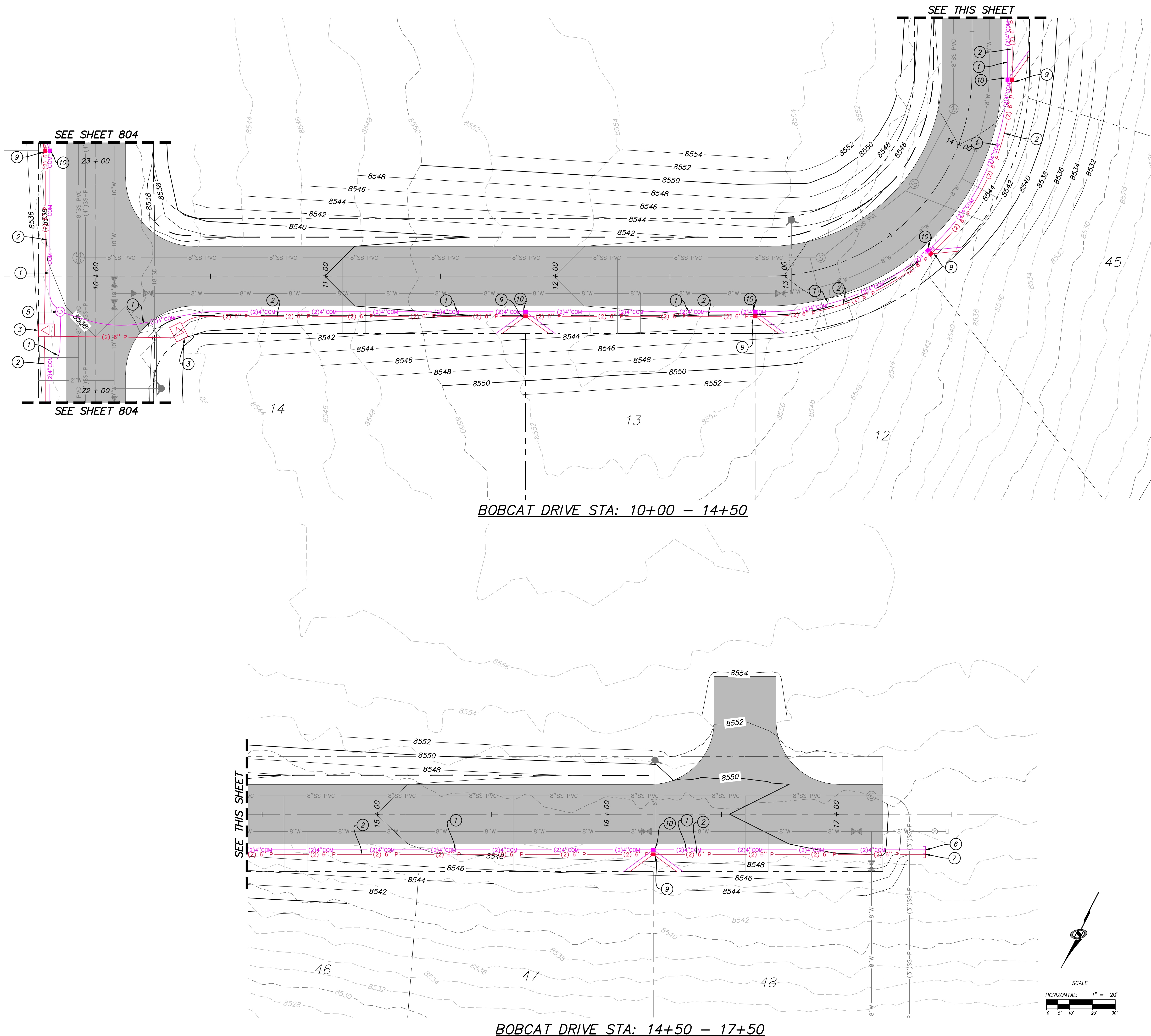
NO.	DATE	BY	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
 DRY UTILITY PLAN  
 MEADOW DRIVE STA: 16+50 - 22+00  
 DATE SUBMITTED: 10.24.2018

**PRELIMINARY**

SHEET NUMBER  
**808**  
59 OF 61



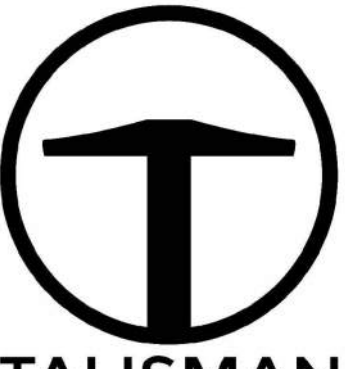
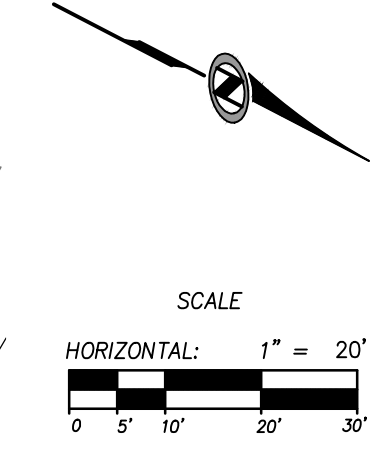


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NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
DRY UTILITY PLAN  
BOBCAT DRIVE STA: 10+00 - 17+50

PRELIMINARY

SHEET NUMBER  
**809**  
60 OF 61

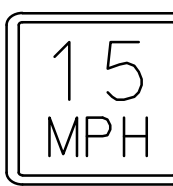
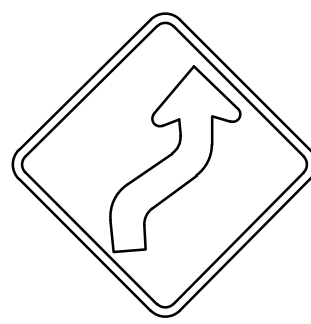
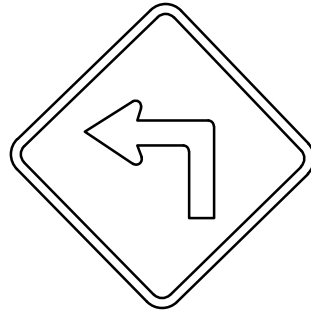
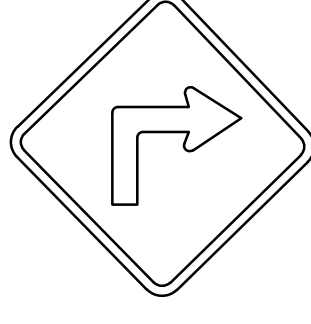
TCC JOB NUMBER: 18.200.22 DATE SUBMITTED: 10.24.2018

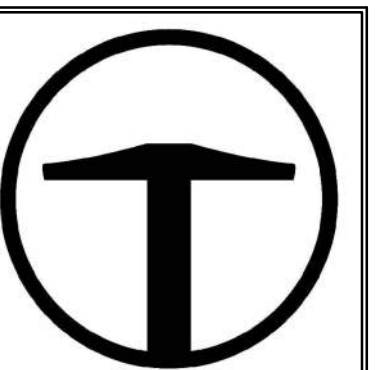


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- LEGEND**
-  INSTALL POST MOUNTED SIGN W13-1 PER CURRENT M.U.T.C.D. GUIDELINES
  -  INSTALL POST MOUNTED SIGN W1-4 PER CURRENT M.U.T.C.D. GUIDELINES
  -  INSTALL POST MOUNTED SIGN W1-1L PER CURRENT M.U.T.C.D. GUIDELINES
  -  INSTALL POST MOUNTED SIGN W1-1R PER CURRENT M.U.T.C.D. GUIDELINES



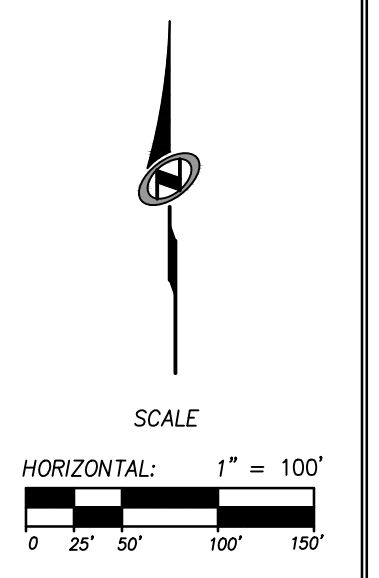
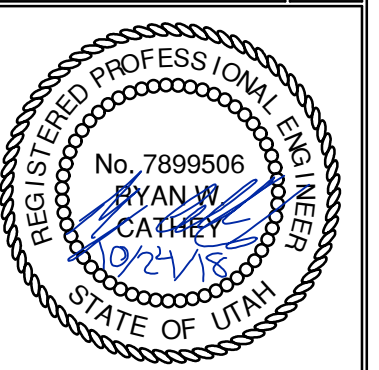
**TALISMAN**  
CIVIL CONSULTANTS  
6217 SOUTH STATE STREET  
SUITE 200  
MURRAY, UT 84107  
801.743.1300

NO.	BY	DATE	REVISIONS

**BOBCAT RIDGE AT S.P.M.**  
SIGNAGE PLAN

DATE SUBMITTED: 10.24.2018

TCC JOB NUMBER: 18.200.22



SHEET NUMBER  
**900**  
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