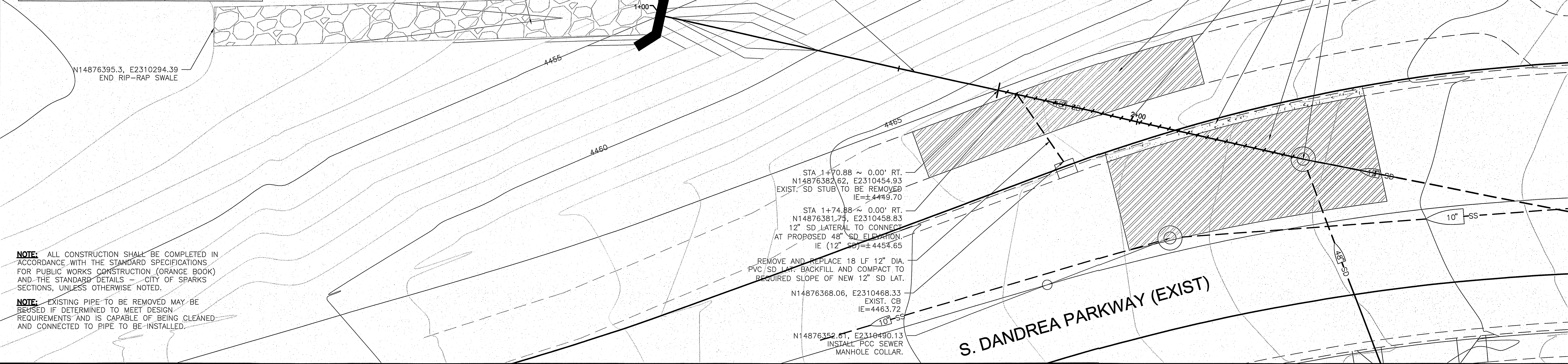
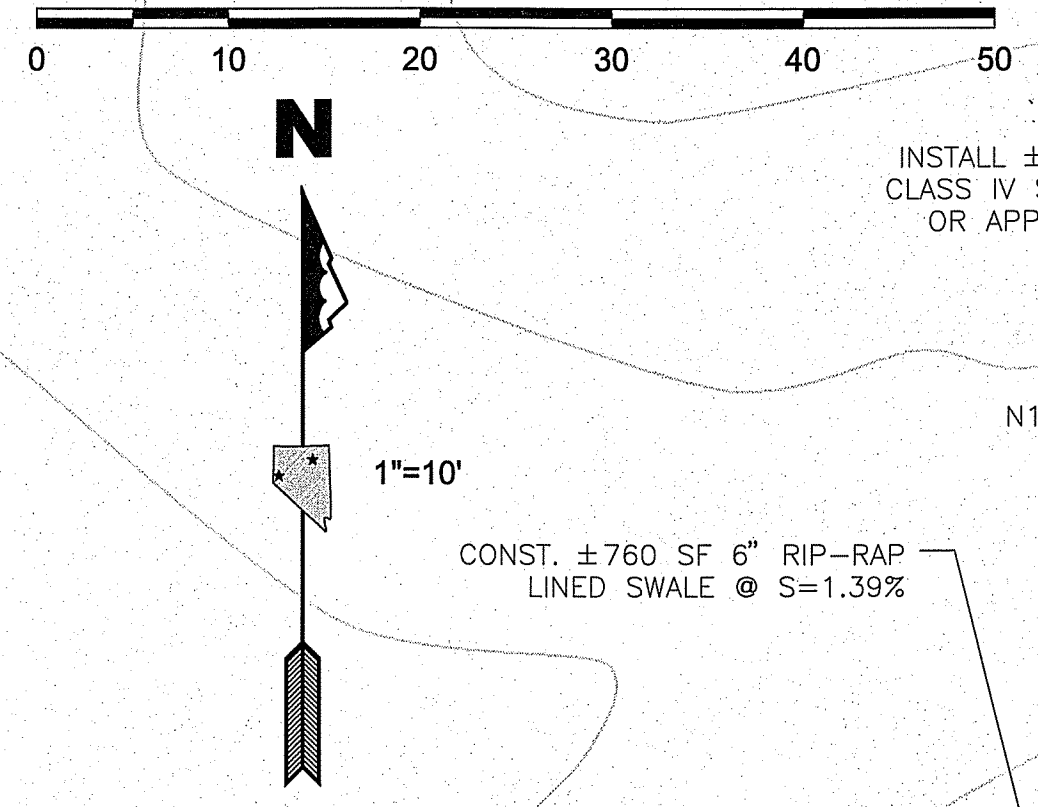


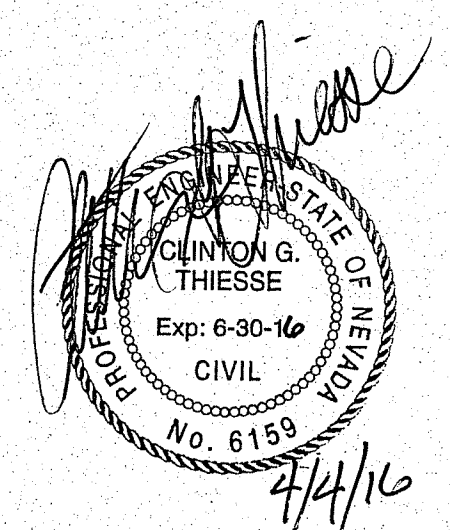
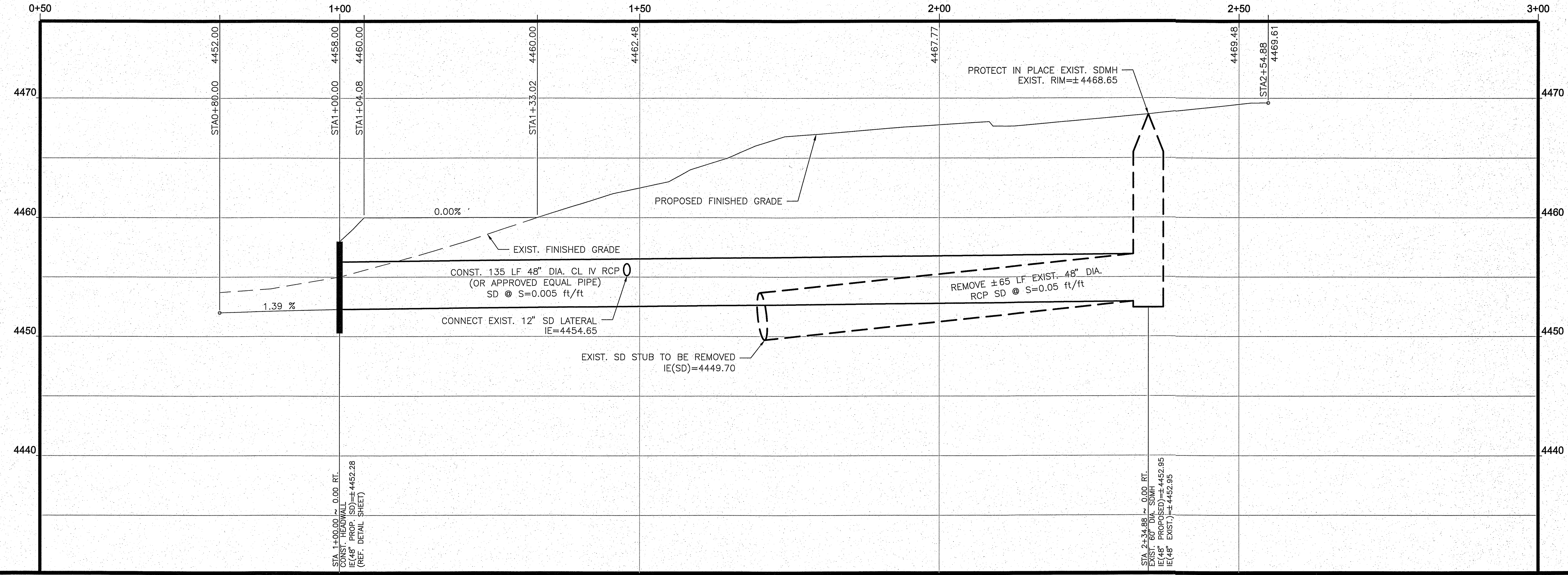
| ALTERNATE 1 QUANTITIES  |          |
|-------------------------|----------|
| ITEM                    | QUANTITY |
| REMOVE RCP 48" SD       | 65 LF    |
| REMOVE 12" SD LATERAL   | 17 LF    |
| REMOVE CURB & GUTTER    | 55 LF    |
| REMOVE STREET AC        | 1100 SF  |
| REMOVE PATH AC          | 600 SF   |
| CONST. 48" SD           | 135 LF   |
| CONST. 12" SD LATERAL   | 17 LF    |
| CONST. HEADWALL         | 1 EA     |
| CONST. 6" RIPRAP DITCH  | 760 SF   |
| PIPE COVER FILL         | 15 CY    |
| INSTALL CURB & GUTTER   | 55 LF    |
| INSTALL STREET AC PATCH | 1100 SF  |
| INSTALL PATH AC PATCH   | 600 SF   |
| LANDSCAPING             | 1 LS     |



**NOTE:** ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ORANGE BOOK) AND THE STANDARD DETAILS - CITY OF SPARKS SECTIONS, UNLESS OTHERWISE NOTED.

**NOTE:** EXISTING PIPE TO BE REMOVED MAY BE REUSED IF DETERMINED TO MEET DESIGN REQUIREMENTS AND IS CAPABLE OF BEING CLEANED AND CONNECTED TO PIPE TO BE INSTALLED.

## TREVISO PIPELINE ~ STA 1+00 TO 2+50



**SUMMIT ENGINEERING CORPORATION**  
5405 MAE ANNE AVE. RENO, NV 89523  
PHONE: (775) 742-8850 FAX: (775) 742-8859

DESIGNED BY: igcube  
DRAWN BY: igcube  
CHECKED BY: CGT  
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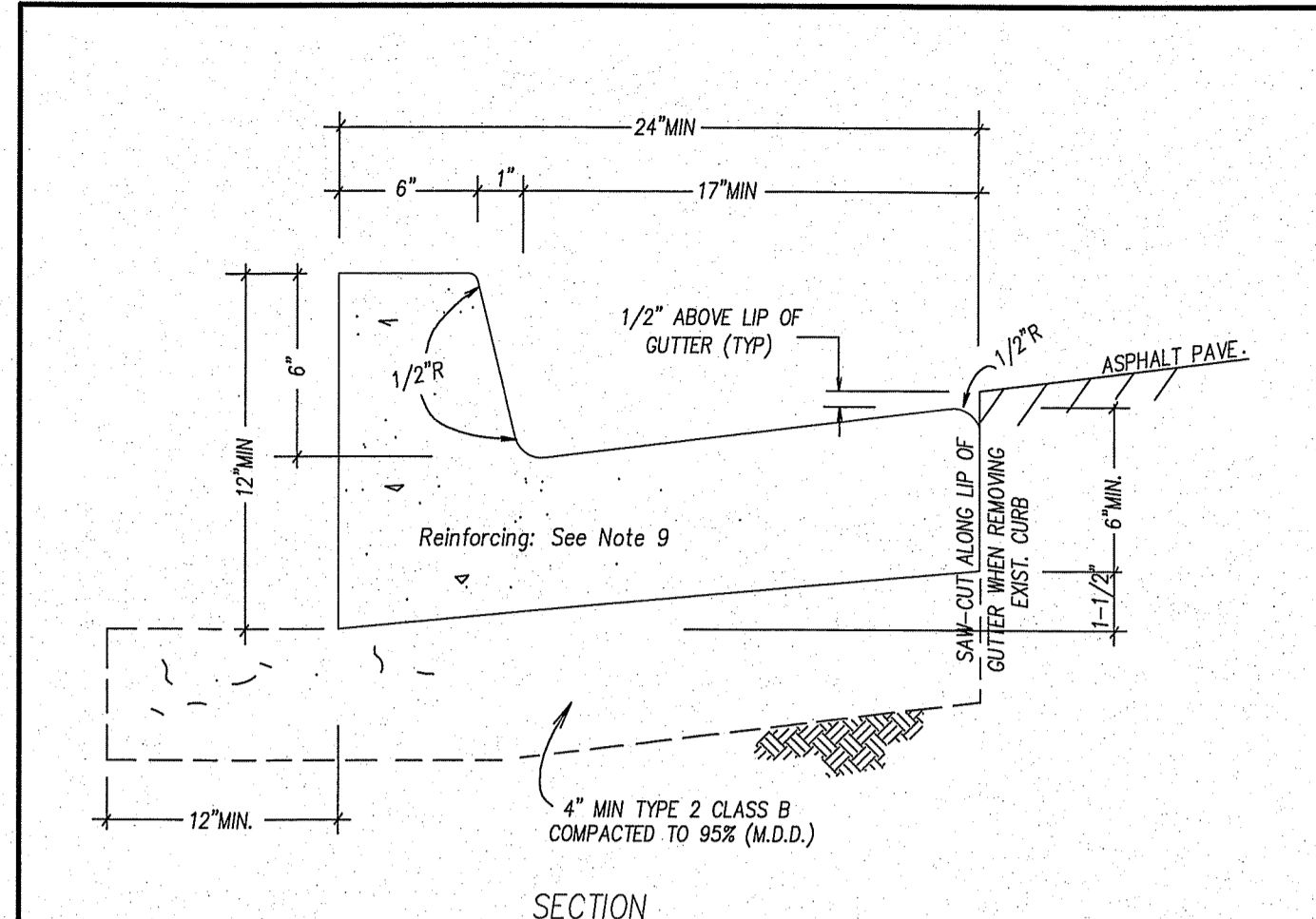
NEVADA  
CITY OF SPARKS  
TREVISO STORM DRAIN MEDIATION  
SITE PLAN  
WASHOE COUNTY  
SPARKS

| REV. | DATE | DESCRIPTION | BY | APP'D |
|------|------|-------------|----|-------|
|      |      |             |    |       |

SCALE  
HORIZ: 1"=10'  
VERT: 1"=5'  
JOB NO: 30272  
N:\DWG\SS\30272\_TrevisoStormDrainSurvey\2015\_12\01Treviso\_Topog.DWG - 9:45 AM '28-JAN-2016

SHEET S-1 OF 2

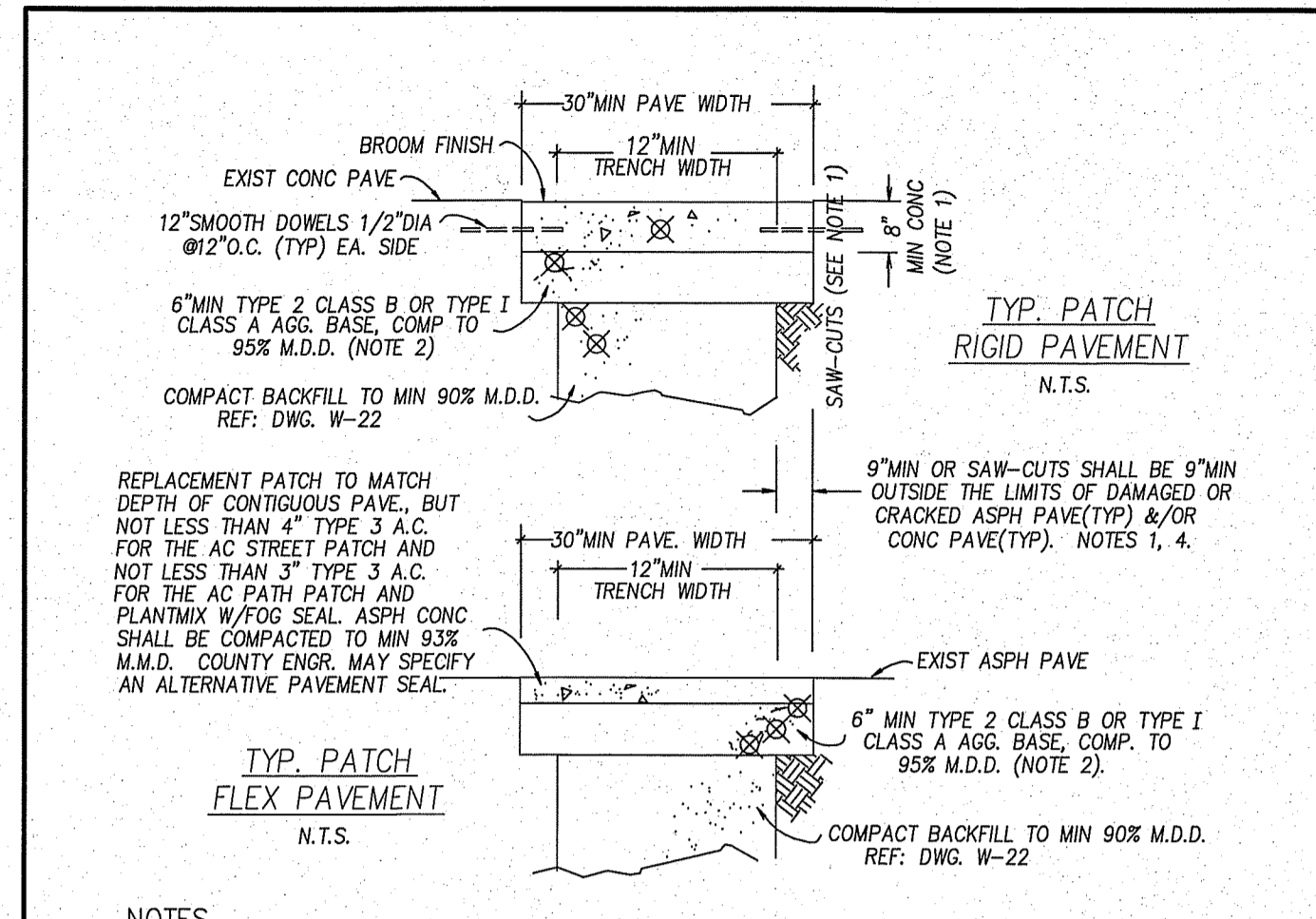




**NOTES**

- PORTLAND CEMENT CONC. (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000psi MIN. COMPRESSIVE STRENGTH @ 28 DAYS W/MIN. OF 6.25 SACKS OF TYPE I CEMENT (588 lbs) PER CU.YD. OF CONC. AIR ENTRAINMENT SHALL BE 4.5 - 7.5% SLUMP SHALL RANGE FROM 1\"/>

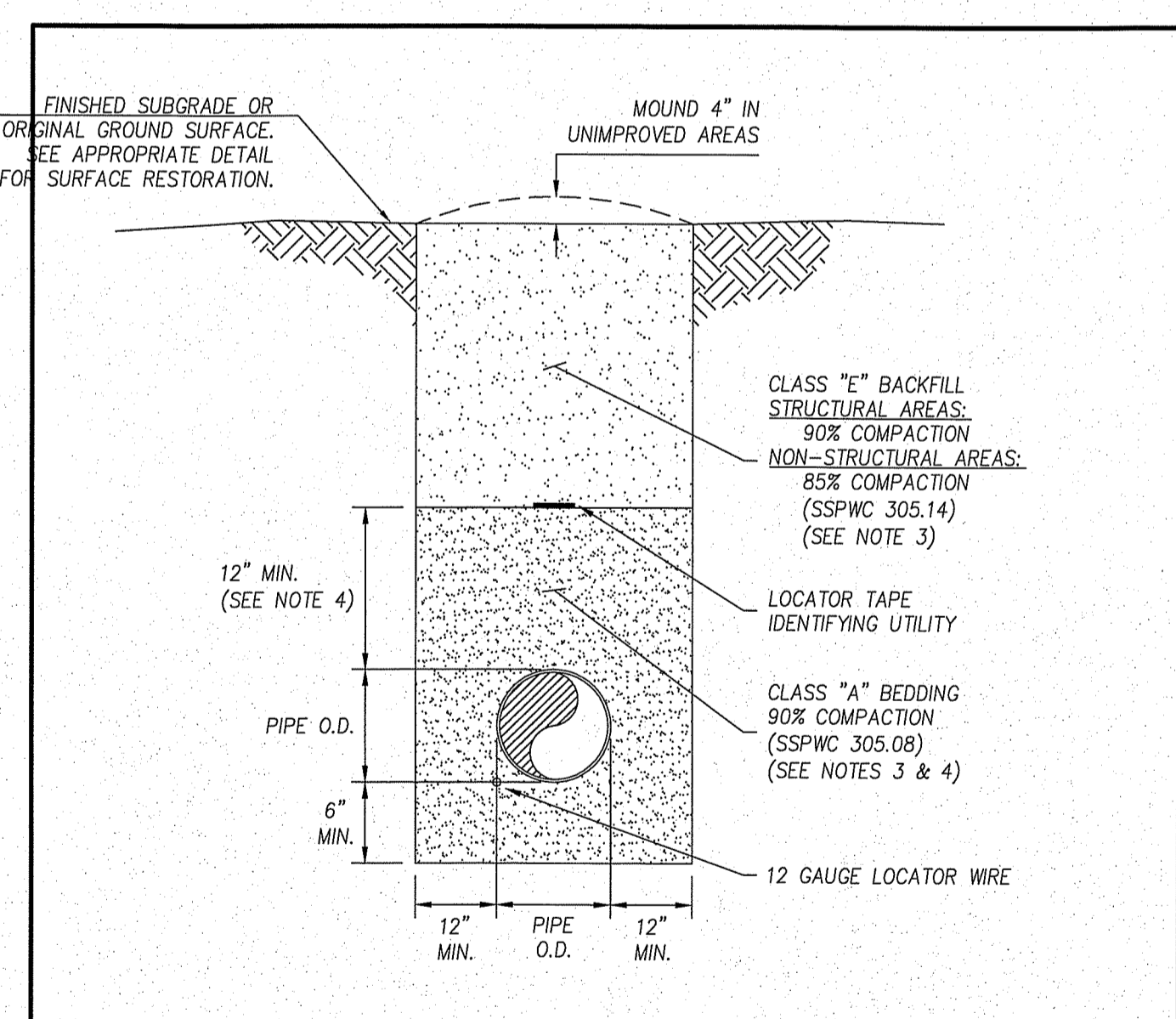
| NO. | REVISED  | DATE     | STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION | SECTION:    |
|-----|----------|----------|--|-------------|
| 1   | REDRAW   | 11/30/09 | <b>TYPE I<br/>P.C.C. CURB &amp; GUTTER</b>     | WASHOE      |
| 2   | NOTE 2,9 | 1/9/10   |  | DRAWING NO: |
| 3   | NOTE 1   | 12/11/10 |  | W-16.1      |



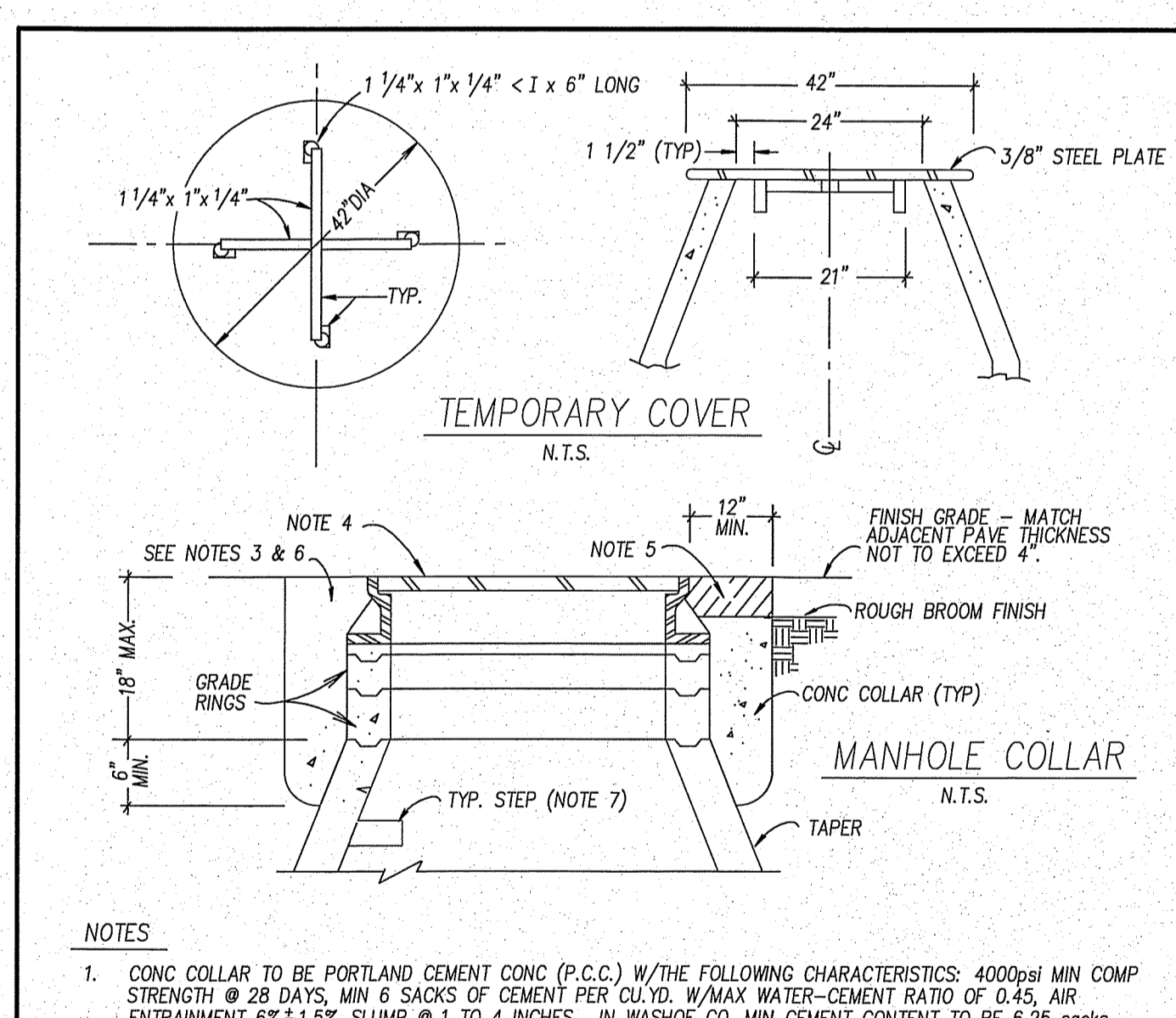
**NOTES**

- ALL CONC REMOVAL & REPLACEMENT SHALL BE TO SAW-CUT LINES & SHALL BE DONE BY EXCAVATION CONTRACTOR OR SUBCONTRACTOR. ALL SAW-CUTS SHALL BE VERT. & IN STRAIGHT LINES PARALLEL OR PERPENDICULAR TO TRENCH, OR AT SATISFACTION OF THE CO. ENGINEER. CONC SHALL BE MIN 6.25 SACKS OF TYPE II CEMENT (588 lbs) 4000psi WITH FIBERMESH W/4.5-7.5% AIR.

| NO. | REVISED     | DATE     | STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION | SECTION:    |
|-----|-------------|----------|--|-------------|
| 1   | Widen dim's | 8/03/09  | <b>PERMANENT<br/>PAVEMENT PATCH</b>            | WASHOE      |
| 2   | notes       | 12/05/09 |  | DRAWING NO: |
| 3   | Conc Note   | 12/11/10 |  | W-2.2       |



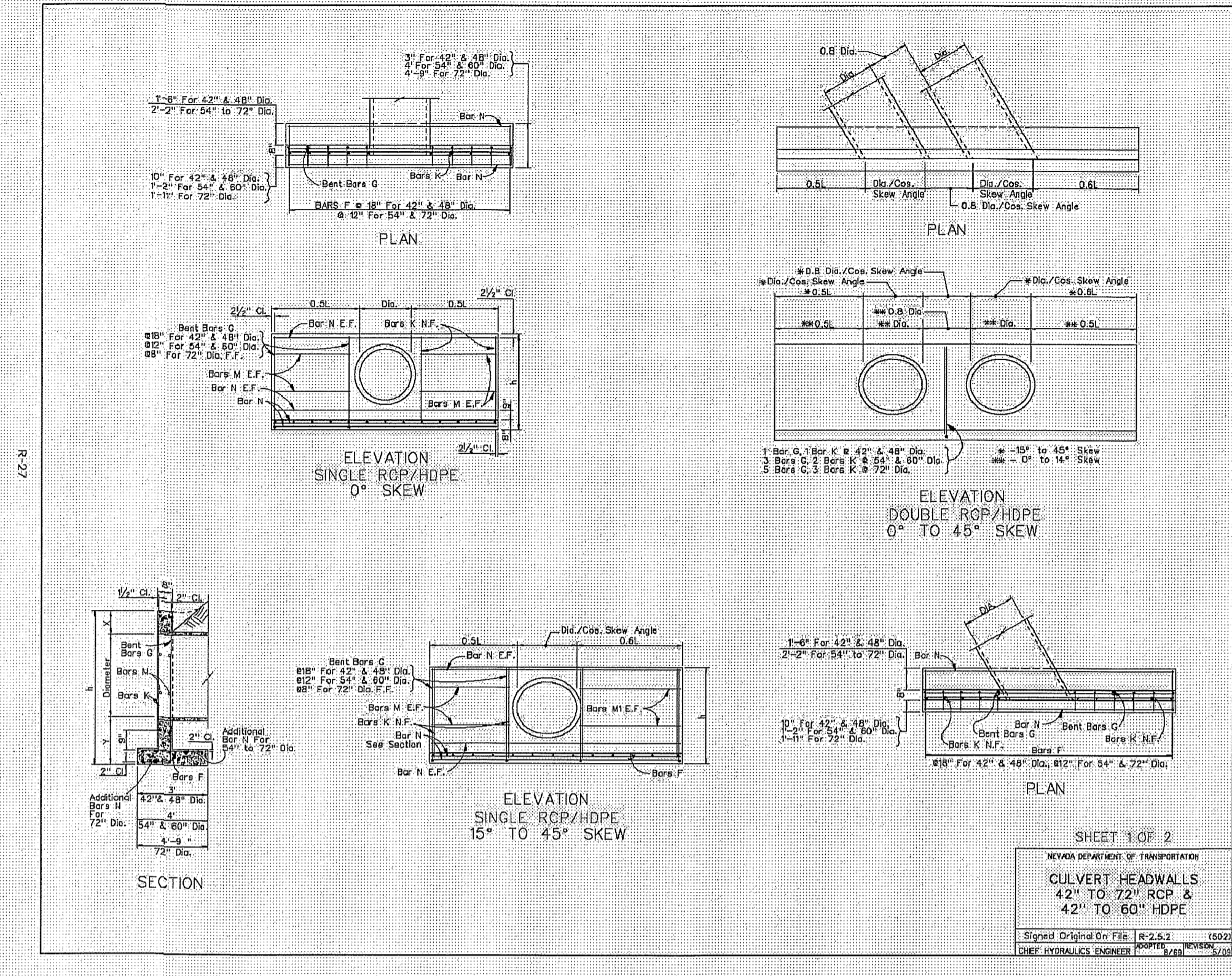
| NO. | REVISED  | DATE   | STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION | SECTION:    |
|-----|----------|--------|--|-------------|
| 1   |          |        | <b>TRENCH DETAIL<br/>WATER</b>                 | WASHOE      |
| 2   | NOTE 2,9 | 1/9/10 |  | DRAWING NO: |
| 3   | NOTE 4,7 | 1/9/10 |  | WR-2.1      |



| NO. | REVISED  | DATE   | STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION  | SECTION:    |
|-----|----------|--------|---|-------------|
| 1   |          |        | <b>MANHOLE COLLAR<br/>&amp; TEMPORARY COVER</b> | 2           |
| 2   | NOTE 2,9 | 1/9/10 |   | DRAWING NO: |
| 3   | NOTE 4,7 | 1/9/10 |   | 2-7 (306)   |

ALLOWABLE FILL HEIGHT FOR REINFORCED CONCRETE PIPE

| Pipe Size (ID) | FILL HEIGHT IN FEET |    |    | Pipe Closure |
|----------------|---------------------|----|----|--------------|
|                | III                 | IV | V  |              |
| 24"            | 22                  | 16 | 10 | 46           |
| 30"            | 22                  | 16 | 10 | 47           |
| 36"            | 22                  | 16 | 10 | 47           |
| 42"            | 22                  | 16 | 10 | 47           |
| 48"            | 22                  | 16 | 10 | 47           |
| 54"            | 22                  | 16 | 10 | 47           |
| 60"            | 22                  | 16 | 10 | 47           |
| 66"            | 22                  | 16 | 10 | 47           |
| 72"            | 22                  | 16 | 10 | 47           |
| 78"            | 22                  | 16 | 10 | 47           |
| 84"            | 22                  | 16 | 10 | 47           |



QUANTITIES SHOWN BELOW ARE FOR TWO HEADWALLS.

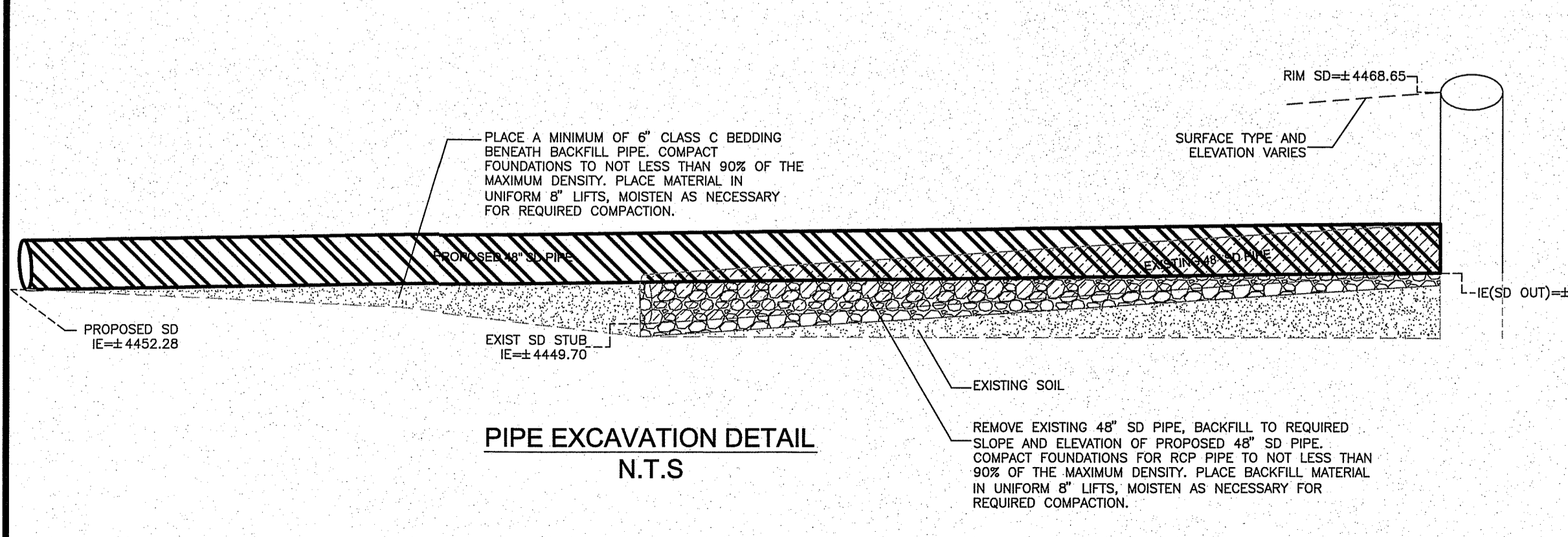
| NO. OF | TYPE  | SINGLE ROP/HOPE |       | DOUBLE ROP/HOPE |       |
|--------|-------|-----------------|-------|-----------------|-------|
|        |       | 42\"/>          |       |                 |       |
| 12     | CONC  | 10.50           | 10.50 | 10.50           | 10.50 |
| 12     | STEEL | 10.50           | 10.50 | 10.50           | 10.50 |

QUANTITIES SHOWN BELOW ARE FOR ONE HEADWALL.

| NO. OF | TYPE  | SINGLE ROP/HOPE |      | DOUBLE ROP/HOPE |      |
|--------|-------|-----------------|------|-----------------|------|
|        |       | 42\"/>          |      |                 |      |
| 6      | CONC  | 5.25            | 5.25 | 5.25            | 5.25 |
| 6      | STEEL | 5.25            | 5.25 | 5.25            | 5.25 |

**NOTES:**

- CONCRETE SHALL BE CLASS A OR AA.
- REINFORCING STEEL SHALL BE REFORMED BARS WITH MAXIMUM SPACING OF 18\"/>



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DRAWN BY: igrobe  
CHECKED BY: CGT  
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**CITY OF SPARKS  
TREVISIO STORM DRAIN MEDIATION  
DETAIL SHEET**

NEVADA  
SPARKS  
WASHOE COUNTY

| SHEET | SCALE        | REVISION | DATE     | DESCRIPTION |
|-------|--------------|----------|----------|-------------|
| D-1   | HORIZ: VERT: | BY       | APPROVED |             |
| 2     |              |          |          |             |

JOB NO. 30272  
NADWS\SS\30272 - TrevisioStormDrainSurvey\2015\_1218\Trevisio - Topo.DWG - 845 AM - 29-JAN-2016