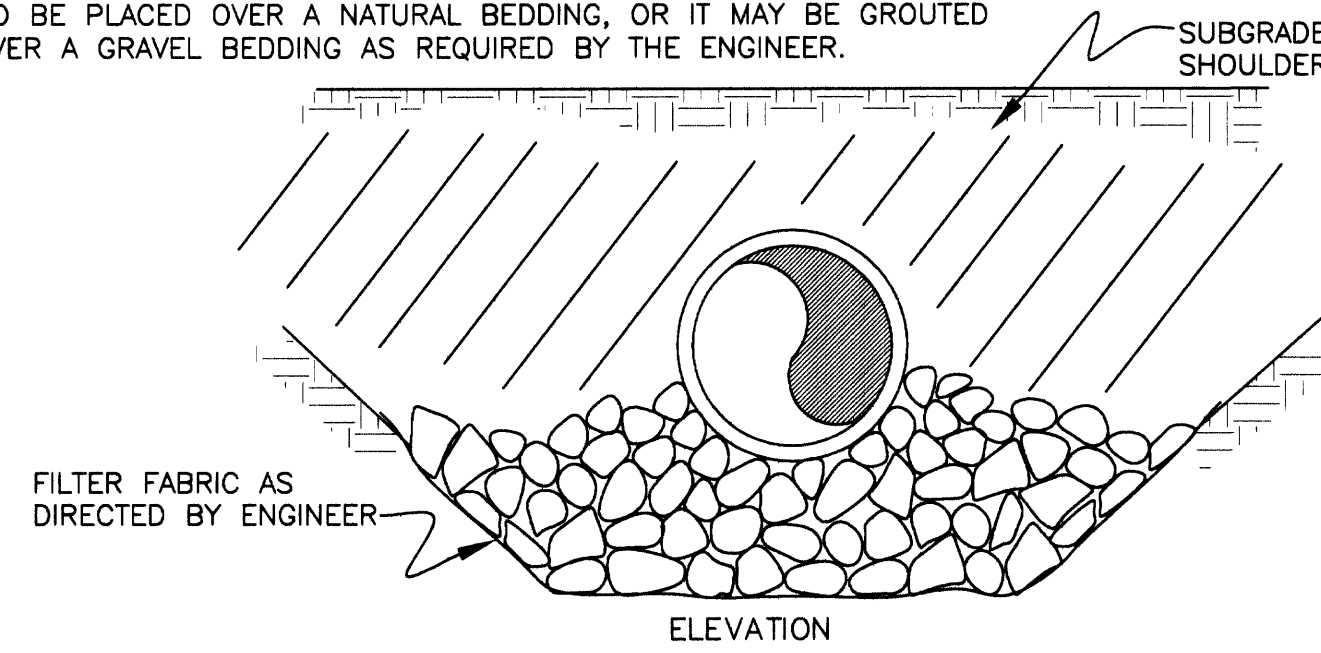
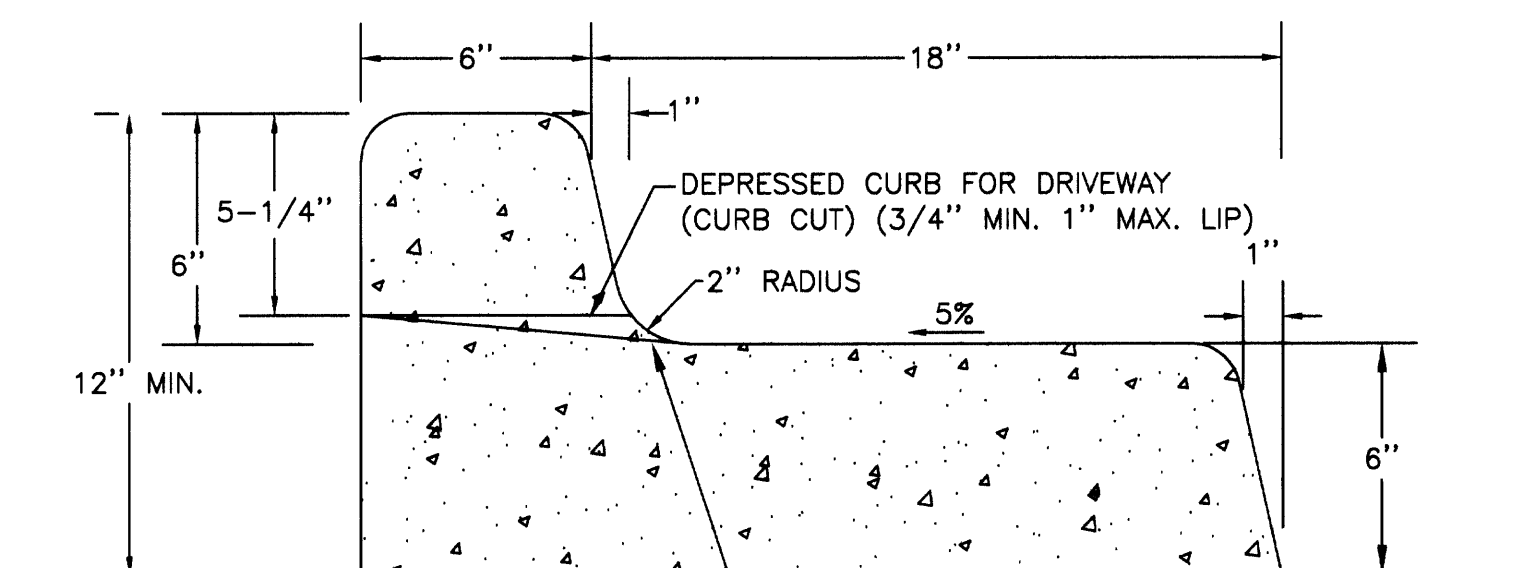


NOTES:

- TYPE OF RIP RAP
 - REGULAR QUARRY STONE
 - ROUNDED COBBLESTONE
 - BROKEN CONCRETE (ONLY ALLOWED UPON APPROVAL OF THE ENGINEER)
- PLACEMENT
 - MINIMUM DEPTH = 1-1/2 TIMES AVERAGE STONE SIZE
 - ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS
 - SURFACE ROCKS OR CONCRETE SHALL PROTRUDE AT LEAST 1/2 THEIR VERTICAL DIMENSION.
 - RIP RAP IS TO BE PLACED OVER A NATURAL BEDDING, OR IT MAY BE GROUTED OR PLACED OVER A GRAVEL BEDDING AS REQUIRED BY THE ENGINEER.



RIP RAP ENERGY DISSIPATER

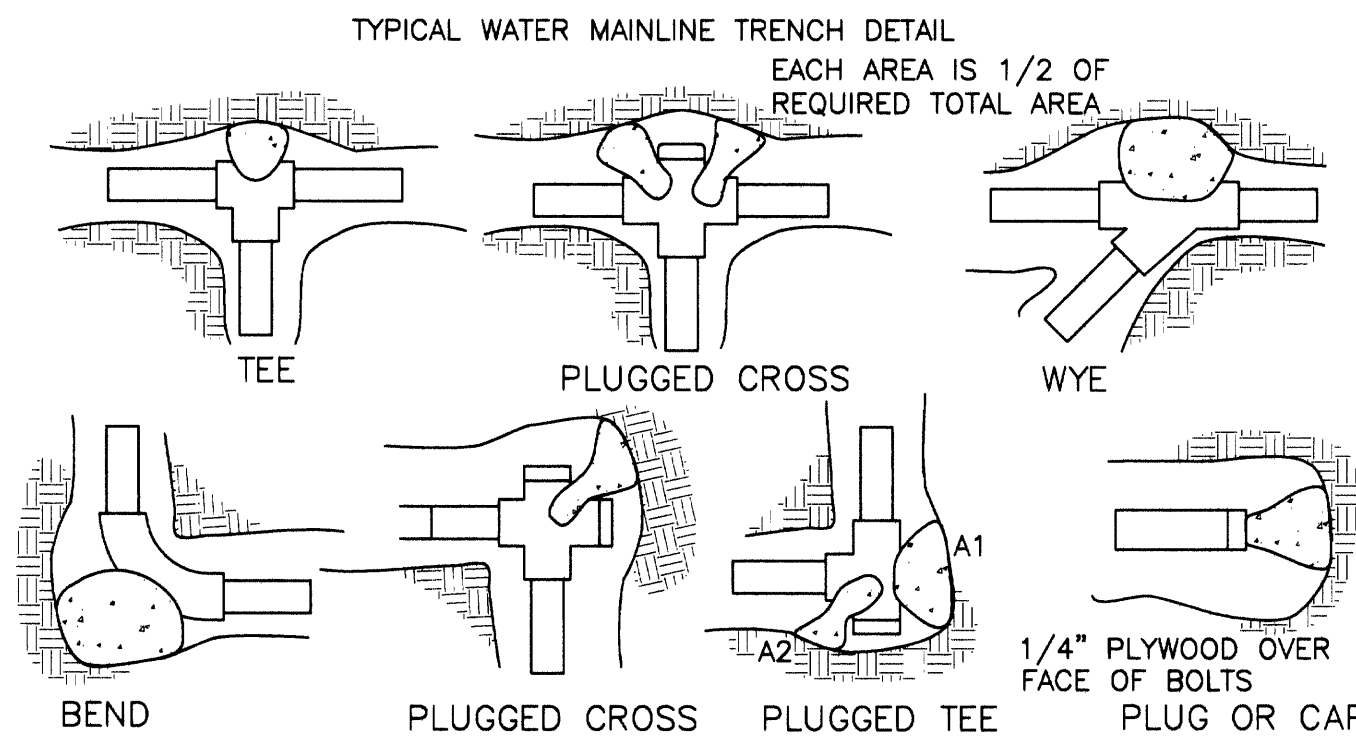


*8.33% (1:12) MAXIMUM SLOPE ALLOWED BY AMERICANS w/ DISABILITIES ACT (ADA)

NOTES:

- ALL RADII SHALL BE 3/4" (20MM) UNLESS OTHERWISE SHOWN
- ALL CONCRETE SHALL MEET STANDARD CONCRETE SPECS. [3300PSI (22.75MPA)]
- ALLOWABLE TOLERANCE FOR DEVIATION FROM TANGENT OR STRAIGHT LINES IN NON-CURVED SECTIONS, SHALL NOT EXCEED 2MM/1M (1/4" PER 12') [WHEN A 2 METER STRAIGHT EDGE IS LAID UPON ANY SURFACE NOT IN A CURVE OR A GRADE CHANGE THE MAXIMUM GAP SHALL BE 4MM]

TYPICAL MONOLITHIC CURB AND GUTTER



| FITTING SIZE | TEE, WYE OR CROSS | 90° BEND PLUGGED CROSS | TEE PLUGGED ON RUN A1 A2 | 45° BEND | 22 1/2' BEND | 11 1/4' BEND |
|--------------|-------------------|------------------------|--------------------------|----------|--------------|--------------|
| 2 | 0.2 | 0.4 | 0.6 | 0.4 | 0.2 | -- |
| 3 | 0.5 | 0.8 | 1.2 | 0.8 | 0.5 | -- |
| 4 | 1.0 | 1.4 | 1.9 | 1.4 | 1.0 | 0.2 |
| 6 | 2.1 | 3.0 | 4.3 | 3.0 | 1.6 | 0.5 |
| 8 | 3.8 | 5.3 | 7.6 | 5.4 | 2.9 | 1.0 |
| 10 | 5.9 | 8.4 | 11.8 | 8.4 | 4.6 | 1.2 |
| 12 | 8.5 | 12.0 | 17.0 | 12.0 | 6.6 | 1.7 |
| 14 | 11.5 | 16.3 | 23.0 | 16.3 | 8.9 | 2.3 |
| 16 | 15.0 | 21.3 | 30.0 | 21.3 | 11.6 | 3.0 |
| 18 | 19.0 | 27.0 | 38.0 | 27.0 | 14.6 | 3.8 |
| 20 | 23.5 | 33.3 | 47.0 | 33.3 | 18.1 | 4.7 |
| 24 | 34.0 | 48.0 | 68.0 | 48.0 | 26.2 | 6.8 |

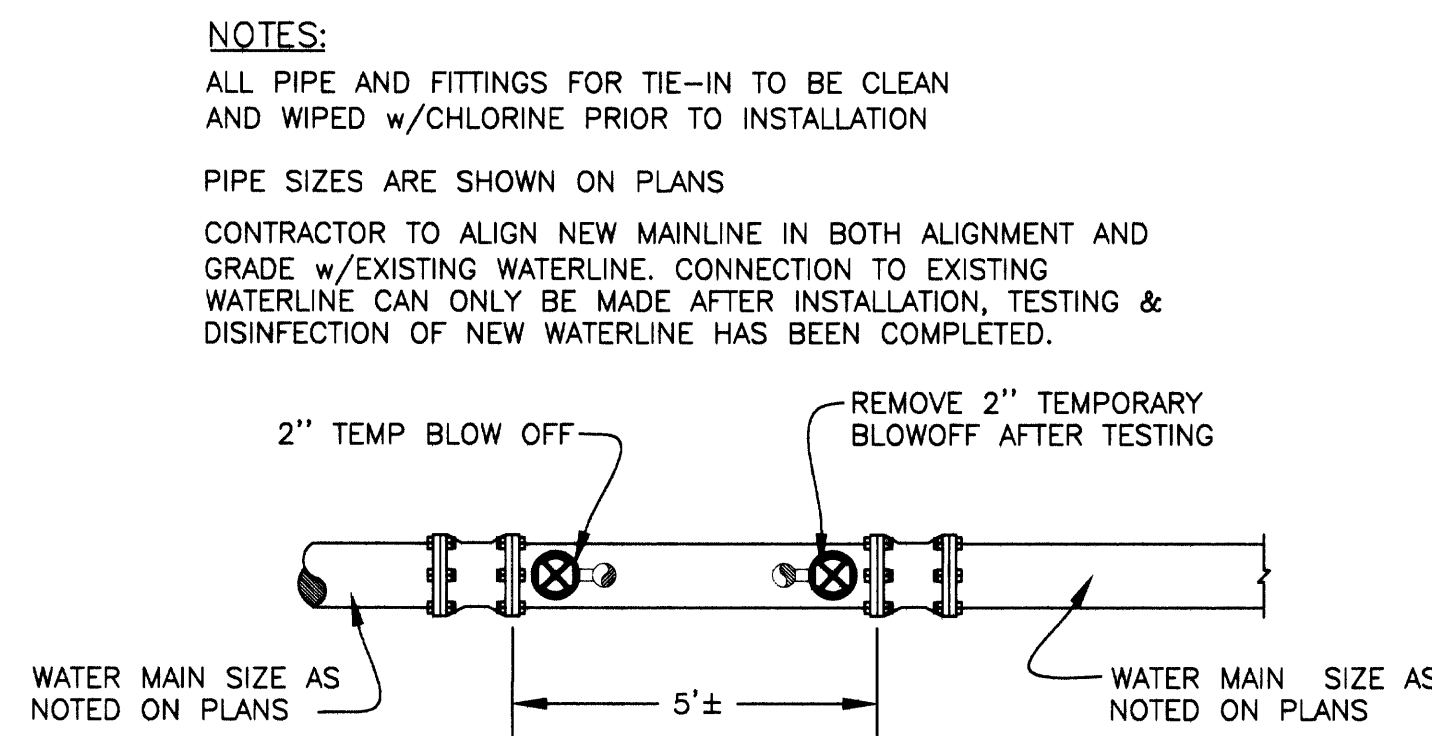
NOTE: ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 lbs. PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150) x (2000/SOIL BEARING STRESS) x (TABLE VALUE)

NOTES:

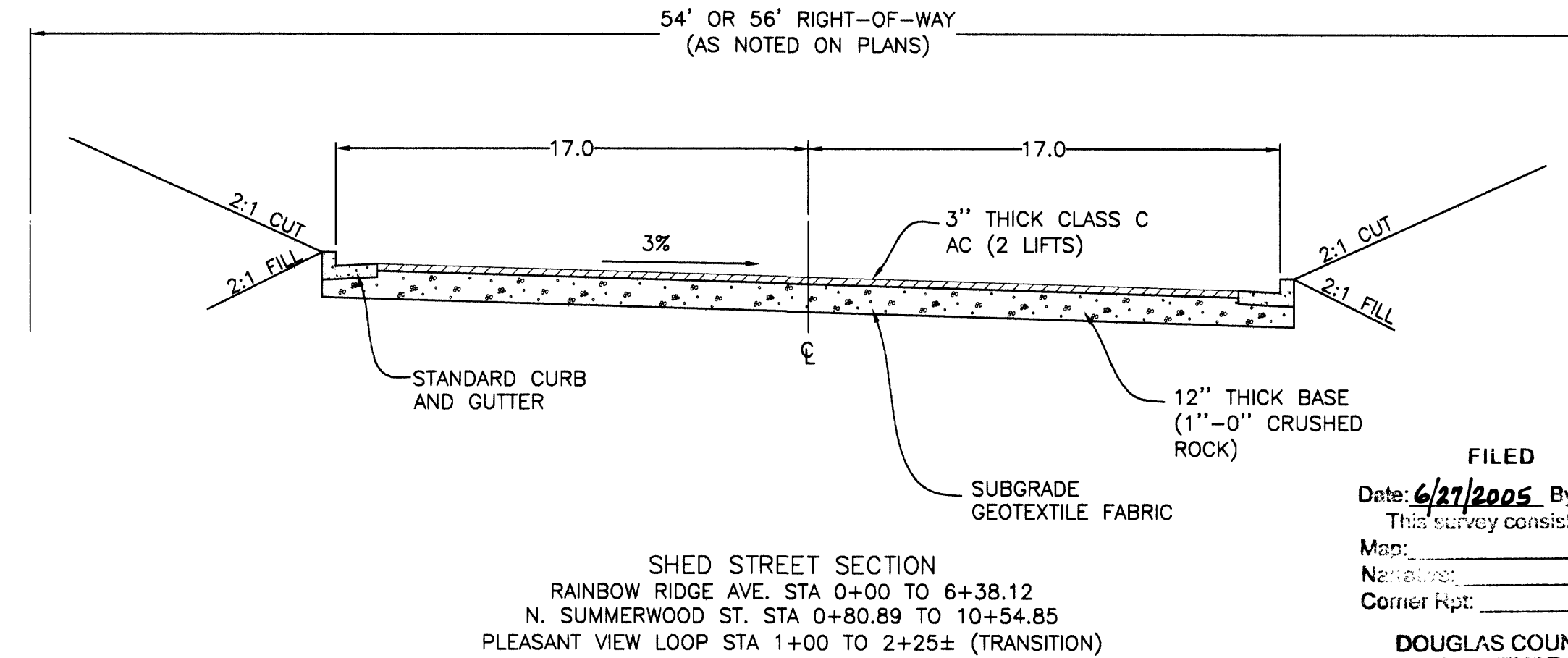
- CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
- KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
- THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCIRCLED ON THE PLANS, e.g. (15) INDICATES 15 SQUARE FEET BEARING AREA REQUIRED.
- IF NOT SHOWN ON PLANS REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED ABOVE, ADJUSTED IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIAL SPECIFICATIONS.
- BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

THRUST BLOCK DETAILS AND INFORMATION

NO SCALE

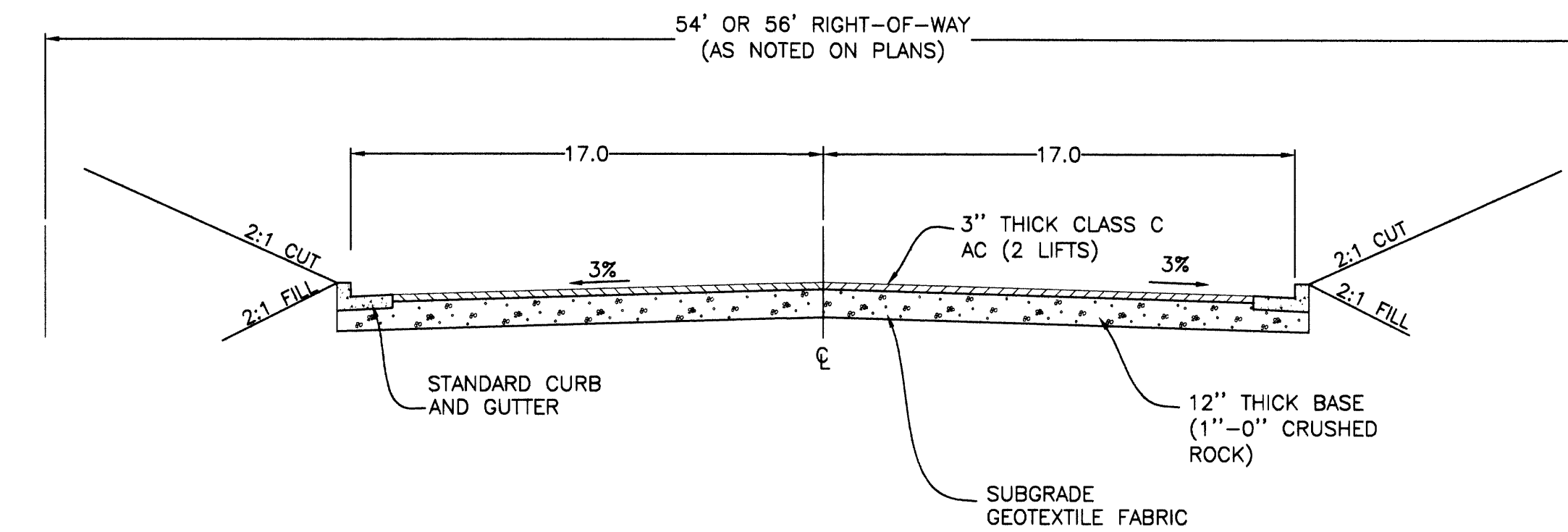


TYPICAL WATER TIE-IN DETAIL

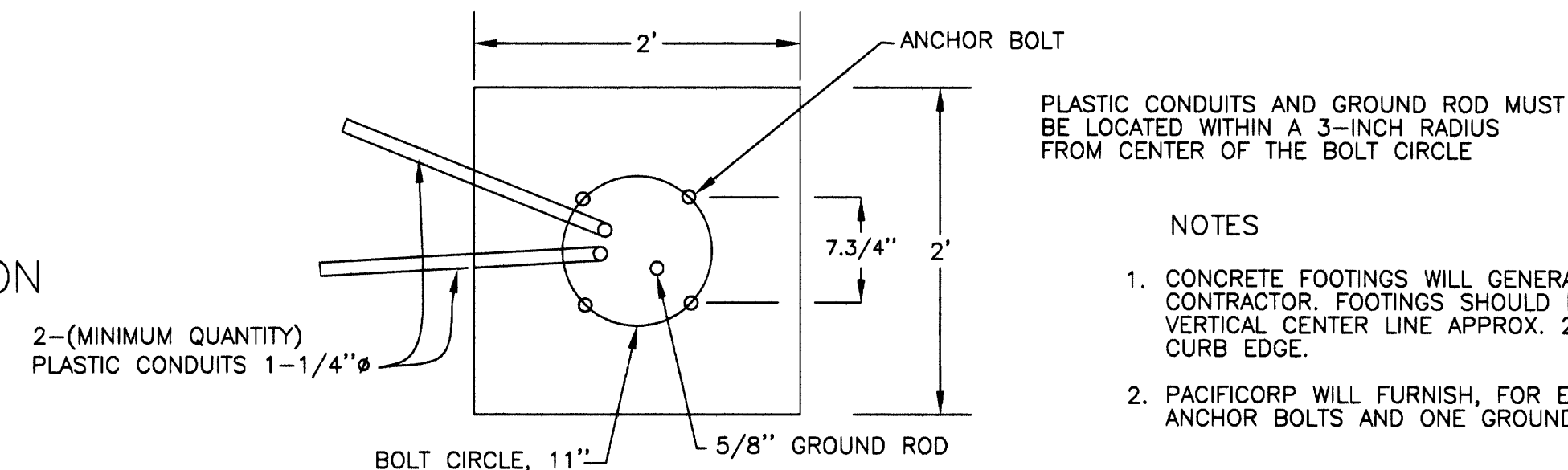


SHED STREET SECTION
RAINBOW RIDGE AVE. STA 0+00 TO 6+38.12
N. SUMMERWOOD ST. STA 0+80.89 TO 10+54.85
PLEASANT VIEW LOOP STA 1+00 TO 2+25± (TRANSITION)

FILED
Date: 6/27/2005 By: JP
This survey consists of:
Map:
Name:
Corner Rpt:
DOUGLAS COUNTY SURVEYOR



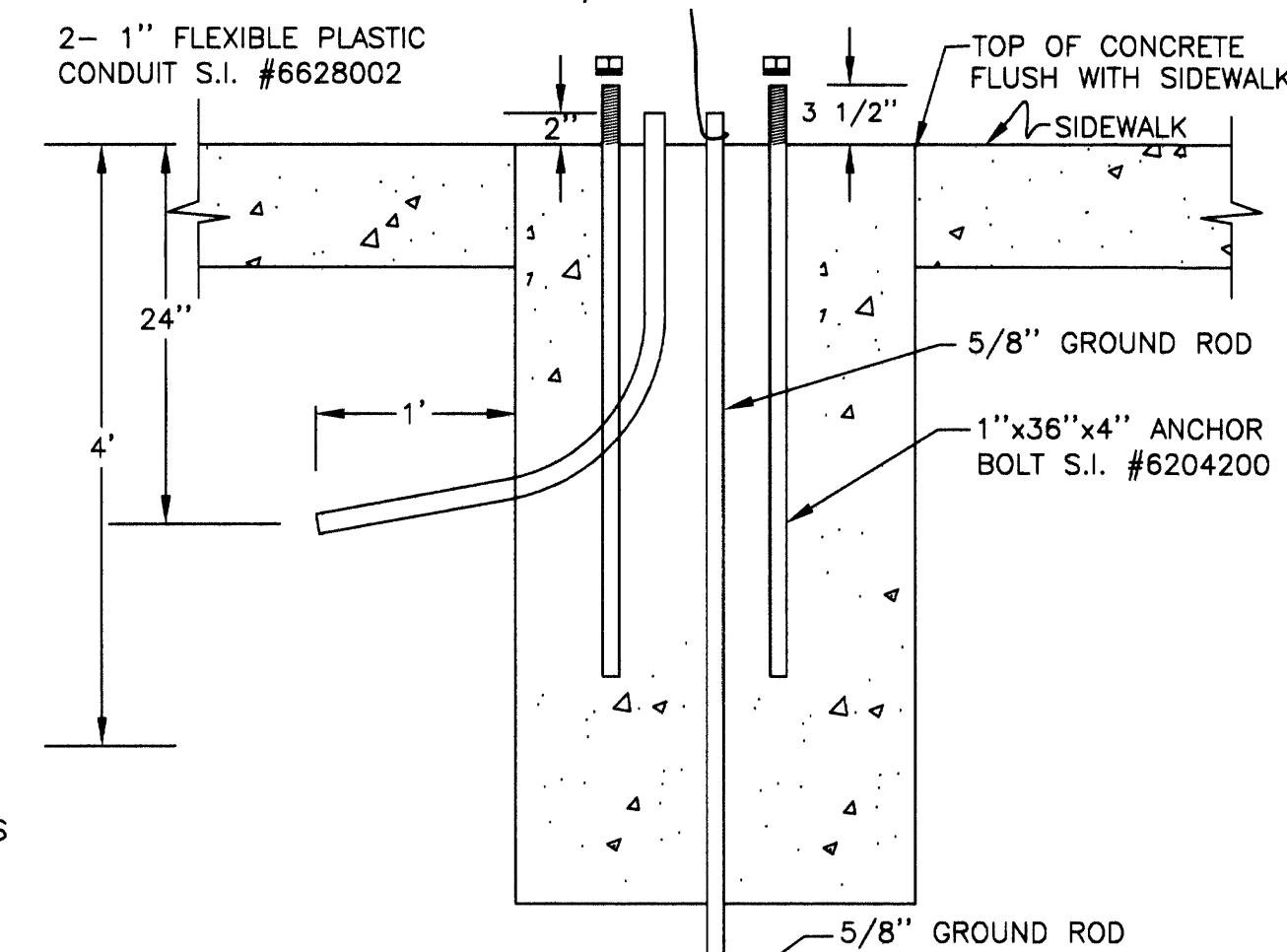
CROWN STREET SECTION
PLEASANT VIEW LOOP STA 2+25 TO 13+00.14



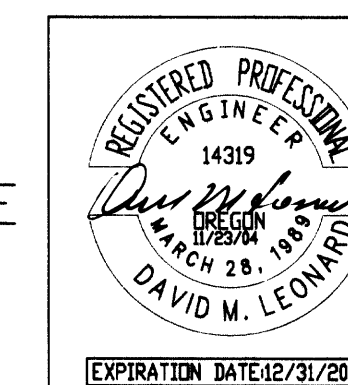
PLASTIC CONDUITS AND GROUND ROD MUST BE LOCATED WITHIN A 3-INCH RADIUS FROM CENTER OF THE BOLT CIRCLE

NOTES:

- CONCRETE FOOTINGS WILL GENERALLY BE INSTALLED BY A CONTRACTOR. FOOTINGS SHOULD BE LOCATED WITH THE VERTICAL CENTER LINE APPROX. 24" BACK FROM THE CURB EDGE.
- PACIFICORP WILL FURNISH, FOR EACH FOOTING, FOUR ANCHOR BOLTS AND ONE GROUND ROD.
- NUMBER AND ORIENTATION OF THE PLASTIC CONDUITS ARE INFLUENCED BY THE UNDERGROUND CIRCUIT ROUTE AND SHOULD BE DETERMINED IN EACH INDIVIDUAL LOCATION FOR THE MOST PRACTICAL SOLUTION.
- ANCHOR BOLTS SHOULD BE FURNISHED WITH 6" MINIMUM THREAD LENGTH AND SHOULD BE HOT DIP GALVANIZED.
- FOOTING AS SPECIFIED ON THIS STANDARD IS DESIGNED FOR USE WITH THE STANDARD 11 GAUGE (OR 10 GA.) METAL STREET LIGHT POLES FOR MOUNTING HEIGHTS UP TO 32 FEET. IT SHOULD NOT BE APPLIED IN LOCATIONS WHICH REQUIRE A POLE OF HIGHER STRENGTH (DEAD-END POLE; COMBINATION STREET LIGHT/TRAFFIC SIGNAL POLES, ETC).



TYPICAL CONCRETE FOOTING 11-INCH BOLT CIRCLE



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Co. Rd. # 406, # 406B, # 406C

| DATE | BY | REVISIONS |
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| | | |

ROSEWOOD ESTATES - PHASE VI
DETAILS - AS BUILT
LITTLE VALLEY RD.



3129 NE STEPHENS ROSSBERG, OR 97140
PH: (541) 440-4871
FX: (541) 672-0677

DESIGN BY: JCB

DRAWN BY: JCB
DATE: 11-12-04

SURVEYED BY:
DATE:

CHECKED BY:
DATE:

SCALE: AS SHOWN

PROJECT NO. 20626.6

SHEET NO. 6 OF 8

RELEASED FOR FINAL RECORD DOCUMENTS

R406DET2