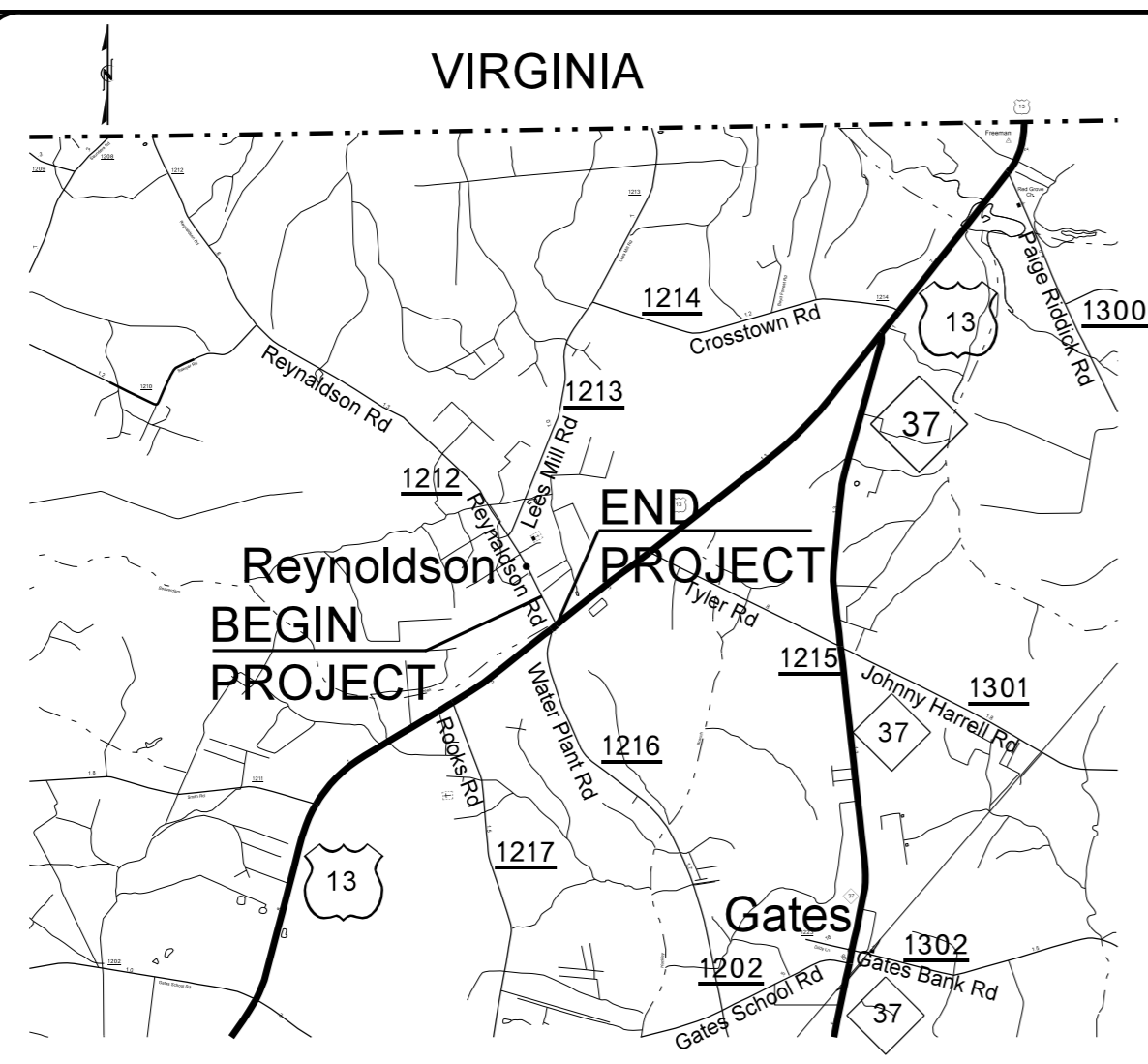


09/08/99

13-MAR-2014 10:03
C:\Users\SFenwick\Desktop\Current Projects\US 13 & Reynoldson Rd.\Gates\45331.3.FD1\c01-ddc-shl.dgn
SFenwick AT DICAD265783

CONTRACT #: 45331.3.FD1
WBS #: 45331.3.FD1

CONTRACT: DA00187



VICINITY MAP

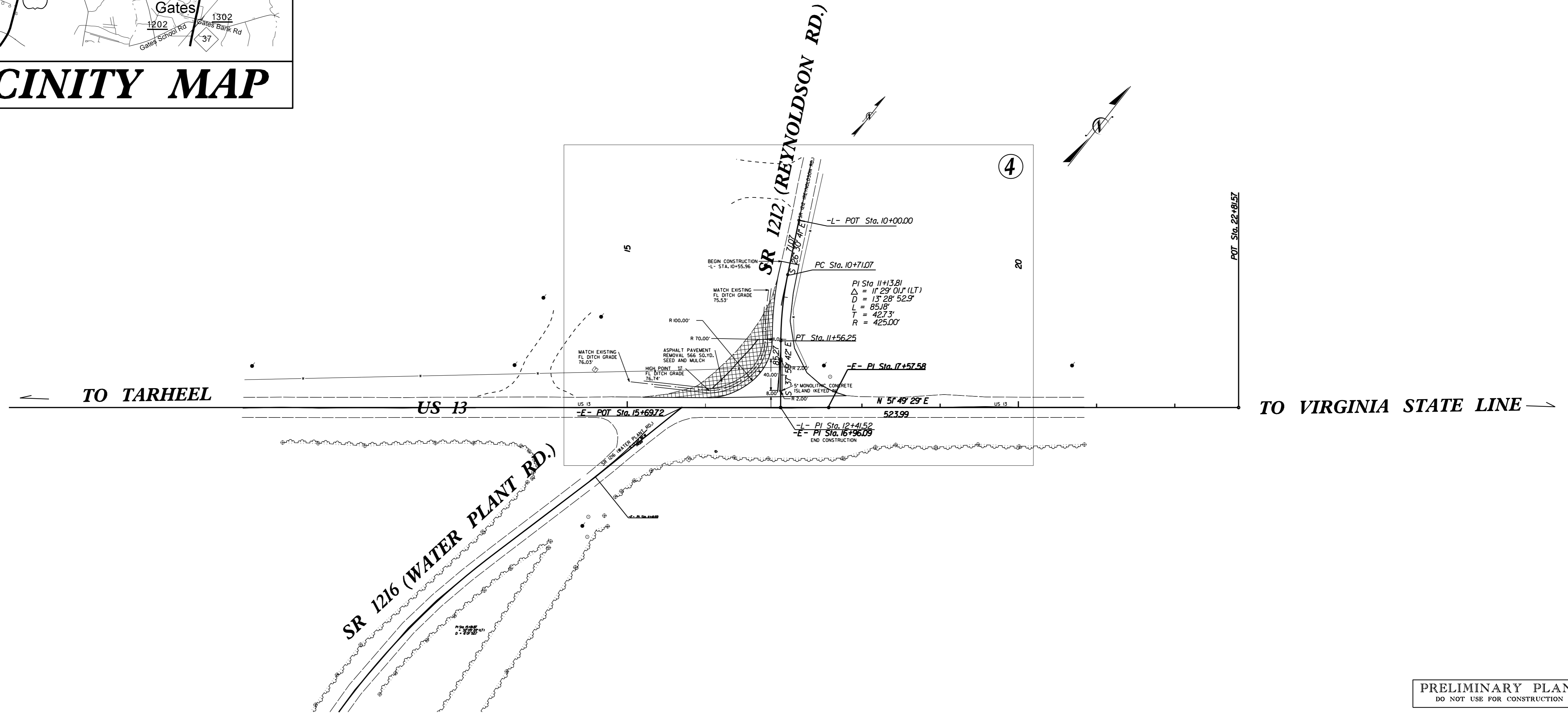
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GATES COUNTY

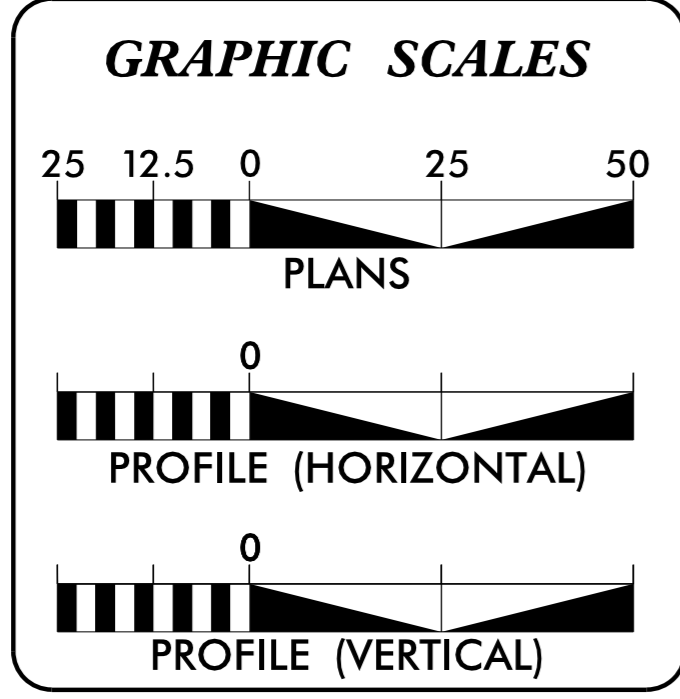
LOCATION: SR 1212 (REYNOLDSON RD.) AT US 13

TYPE OF WORK: PAVEMENT REMOVAL, GRADING & RESURFACING

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | 45531.3.FD1 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 45531.1.1 | HRRR-1212(7) | PE | |
| 45531.2.1 | | R /W | |
| 45531.3.FD1 | | CONST. | |



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

V = 55 MPH

PROJECT LENGTH

LENGTH OF STATE PROJECT 45331.3.FD1 = 0.0323 MILES
 LENGTH OF FEDERAL PROJECT HRRR-1212 (7) = 0.0323 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

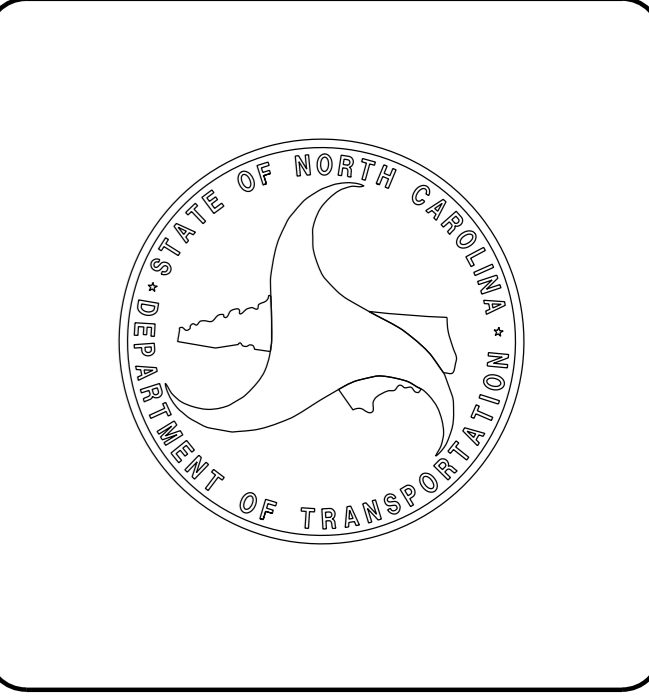
RIGHT OF WAY DATE:
AUGUST 30, 2013

LETTING DATE:
MAY 7, 2014

BARRY HOBBS, PE
DIVISION PROJECT MANAGER

CHRIS SLACHTA
DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS
 DIVISION DESIGN ENGINEER



| SHEET NUMBER | SHEET |
|----------------|---|
| 1 | TITLE SHEET |
| 1-A | INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS |
| 1-B | CONVENTIONAL SYMBOLS |
| 1-C | SURVEY CONTROL SHEET |
| 2 | PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS |
| 3 | SUMMARY OF QUANTITIES |
| 3A | EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY |
| 4 / EC-1 | PLAN SHEET/ EROSION CONTROL PLAN |
| EC-2 THRU EC-3 | EROSION CONTROL PLANS |
| X-1 THRU X-2 | CROSS-SECTIONS |

GENERAL NOTES:

2012 SPECIFICATIONS
 EFFECTIVE: 01-17-12
 REVISED: 11/01/11

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

GRADE LINE:
 GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

| STD.NO. | TITLE |
|---------|-------|
|---------|-------|

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.

DIVISION 2 - EARTHWORK

- 200.02 Method of Clearing - Method 11
- 225.02 Guide for Grading Subgrade - Secondary and Local
- 225.04 Method of Obtaining Superelevation - Two Lane Pavement
- 225.06 Method of Grading Sight Distance at Intersections

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

- 560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method 1

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

DIVISION 8 - INCIDENTALS

- 852.01 Concrete Islands

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

| | |
|--|-----------|
| State Line | ----- |
| County Line | ----- |
| Township Line | ----- |
| City Line | ----- |
| Reservation Line | ----- |
| Property Line | ----- |
| Existing Iron Pin | ○ EP |
| Property Corner | -----> |
| Property Monument | □ ECM |
| Parcel/Sequence Number | ⑫③ |
| Existing Fence Line | -x-x-x- |
| Proposed Woven Wire Fence | ○ |
| Proposed Chain Link Fence | □ |
| Proposed Barbed Wire Fence | ◇ |
| Existing Wetland Boundary | ----- MLB |
| Proposed Wetland Boundary | ----- MLB |
| Existing Endangered Animal Boundary | ----- EAB |
| Existing Endangered Plant Boundary | ----- EPB |
| Known Soil Contamination: Area or Site | ☠ ☠ |
| Potential Soil Contamination: Area or Site | ?? ?? |

BUILDINGS AND OTHER CULTURE:

| | |
|-------------------------------|-----|
| Gas Pump Vent or U/G Tank Cap | ○ |
| Sign | ○ S |
| Well | ○ W |
| Small Mine | ✕ |
| Foundation | □ |
| Area Outline | □ |
| Cemetery | □ † |
| Building | □ |
| School | □ |
| Church | □ |
| Dam | □ |

HYDROLOGY:

| | |
|------------------------------------|------------|
| Stream or Body of Water | ----- |
| Hydro, Pool or Reservoir | □ |
| Jurisdictional Stream | ----- JS |
| Buffer Zone 1 | ----- BZ 1 |
| Buffer Zone 2 | ----- BZ 2 |
| Flow Arrow | ← |
| Disappearing Stream | -----> |
| Spring | ○ |
| Wetland | ----- |
| Proposed Lateral, Tail, Head Ditch | ----- |
| False Sump | ----- |

RAILROADS:

| | |
|--------------------|-------------------------------------|
| Standard Gauge | ----- |
| RR Signal Milepost | ○ CSX TRANSPORTATION MILEPOST 35 |
| Switch | □ SWITCH |
| RR Abandoned | ----- |
| RR Dismantled | ----- |

RIGHT OF WAY:

| | |
|--|------------|
| Baseline Control Point | ◆ |
| Existing Right of Way Marker | △ |
| Existing Right of Way Line | ----- |
| Proposed Right of Way Line | ----- RW |
| Proposed Right of Way Line with Iron Pin and Cap Marker | ----- RW ▲ |
| Proposed Right of Way Line with Concrete or Granite R/W Marker | ----- RW ▲ |
| Proposed Control of Access Line with Concrete CA Marker | ----- CA |
| Existing Control of Access | ----- CA |
| Proposed Control of Access | ----- CA |
| Existing Easement Line | ----- E |
| Proposed Temporary Construction Easement | ----- E |
| Proposed Temporary Drainage Easement | ----- TDE |
| Proposed Permanent Drainage Easement | ----- PDE |
| Proposed Permanent Drainage / Utility Easement | ----- DUE |
| Proposed Permanent Utility Easement | ----- PUE |
| Proposed Temporary Utility Easement | ----- TUE |
| Proposed Aerial Utility Easement | ----- AUE |
| Proposed Permanent Easement with Iron Pin and Cap Marker | ----- ◆ |

ROADS AND RELATED FEATURES:

| | |
|----------------------------|----------|
| Existing Edge of Pavement | ----- |
| Existing Curb | ----- |
| Proposed Slope Stakes Cut | ----- C |
| Proposed Slope Stakes Fill | ----- F |
| Proposed Curb Ramp | ----- CR |
| Existing Metal Guardrail | ----- |
| Proposed Guardrail | ----- |
| Existing Cable Guiderail | ----- |
| Proposed Cable Guiderail | ----- |
| Equality Symbol | ⊕ |
| Pavement Removal | ----- |

VEGETATION:

| | |
|--------------|-------|
| Single Tree | ☼ |
| Single Shrub | ☼ |
| Hedge | ----- |
| Woods Line | ----- |

| | |
|----------|-------|
| Orchard | ----- |
| Vineyard | ----- |

EXISTING STRUCTURES:

| | |
|--|---------------|
| MAJOR: | |
| Bridge, Tunnel or Box Culvert | ----- CONC |
| Bridge Wing Wall, Head Wall and End Wall | ----- CONC WW |
| MINOR: | |
| Head and End Wall | ----- CONC HW |
| Pipe Culvert | ----- |
| Footbridge | ----- |
| Drainage Box: Catch Basin, DI or JB | □ CB |
| Paved Ditch Gutter | ----- |
| Storm Sewer Manhole | ○ S |
| Storm Sewer | ----- S |

UTILITIES:

| | |
|-------------------------------------|---------|
| POWER: | |
| Existing Power Pole | ● |
| Proposed Power Pole | ○ |
| Existing Joint Use Pole | ● |
| Proposed Joint Use Pole | ○ |
| Power Manhole | ⊕ |
| Power Line Tower | ⊗ |
| Power Transformer | ⊗ |
| U/G Power Cable Hand Hole | □ |
| H-Frame Pole | ● |
| Recorded U/G Power Line | ----- P |
| Designated U/G Power Line (S.U.E.*) | ----- P |

TELEPHONE:

| | |
|---|------------|
| Existing Telephone Pole | ● |
| Proposed Telephone Pole | ○ |
| Telephone Manhole | ⊕ |
| Telephone Booth | □ |
| Telephone Pedestal | ⊕ |
| Telephone Cell Tower | ⊕ |
| U/G Telephone Cable Hand Hole | □ |
| Recorded U/G Telephone Cable | ----- T |
| Designated U/G Telephone Cable (S.U.E.*) | ----- T |
| Recorded U/G Telephone Conduit | ----- TC |
| Designated U/G Telephone Conduit (S.U.E.*) | ----- TC |
| Recorded U/G Fiber Optics Cable | ----- T FO |
| Designated U/G Fiber Optics Cable (S.U.E.*) | ----- T FO |

WATER:

| | |
|-------------------------------------|-----------------|
| Water Manhole | ⊕ |
| Water Meter | ○ |
| Water Valve | ⊗ |
| Water Hydrant | ⊕ |
| Recorded U/G Water Line | ----- W |
| Designated U/G Water Line (S.U.E.*) | ----- W |
| Above Ground Water Line | ----- A/G Water |

TV:

| | |
|--|-------------|
| TV Satellite Dish | ☼ |
| TV Pedestal | □ |
| TV Tower | ⊗ |
| U/G TV Cable Hand Hole | □ |
| Recorded U/G TV Cable | ----- TV |
| Designated U/G TV Cable (S.U.E.*) | ----- TV |
| Recorded U/G Fiber Optic Cable | ----- TV FO |
| Designated U/G Fiber Optic Cable (S.U.E.*) | ----- TV FO |

GAS:

| | |
|-----------------------------------|---------------|
| Gas Valve | ◇ |
| Gas Meter | ⊕ |
| Recorded U/G Gas Line | ----- G |
| Designated U/G Gas Line (S.U.E.*) | ----- G |
| Above Ground Gas Line | ----- A/G Gas |

SANITARY SEWER:

| | |
|--|--------------------------|
| Sanitary Sewer Manhole | ⊕ |
| Sanitary Sewer Cleanout | ⊕ |
| U/G Sanitary Sewer Line | ----- SS |
| Above Ground Sanitary Sewer | ----- A/G Sanitary Sewer |
| Recorded SS Forced Main Line | ----- FSS |
| Designated SS Forced Main Line (S.U.E.*) | ----- FSS |

MISCELLANEOUS:

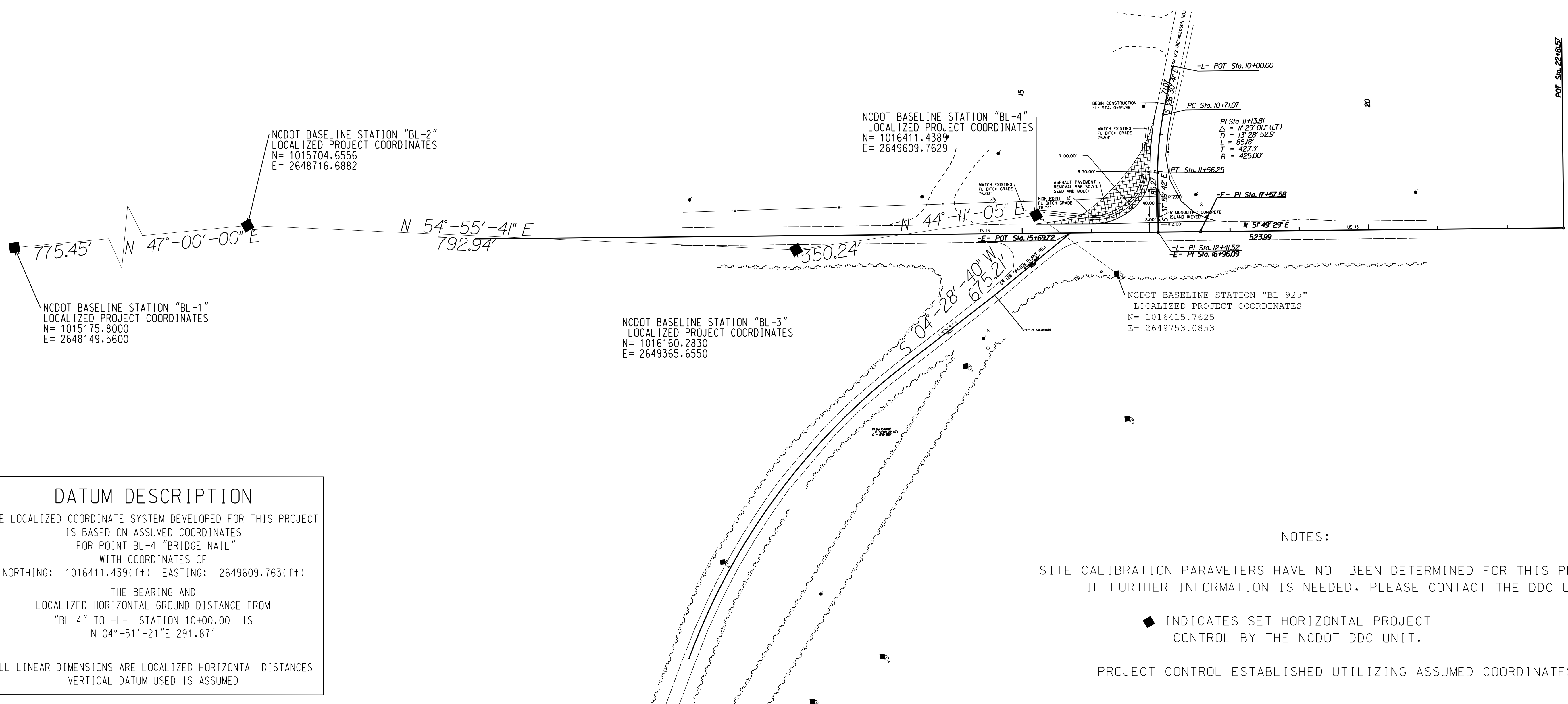
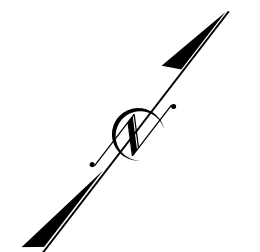
| | |
|--|------------|
| Utility Pole | ● |
| Utility Pole with Base | □ |
| Utility Located Object | ○ |
| Utility Traffic Signal Box | ⊕ |
| Utility Unknown U/G Line | ----- ?UTL |
| U/G Tank; Water, Gas, Oil | □ |
| Underground Storage Tank, Approx. Loc. | ⊕ |
| A/G Tank; Water, Gas, Oil | □ |
| Geoenvironmental Boring | ⊕ |
| U/G Test Hole (S.U.E.*) | ⊕ |
| Abandoned According to Utility Records | AATUR |
| End of Information | E.O.I. |

SURVEY CONTROL SHEET

BENCHMARK DATA

BM 4 ELEVATION = 76.50'
N 1016411 E 2649610
-E- STATION 15+20, 26.11' LEFT
POINT #4 BRIDGE NAIL BURIED 6"

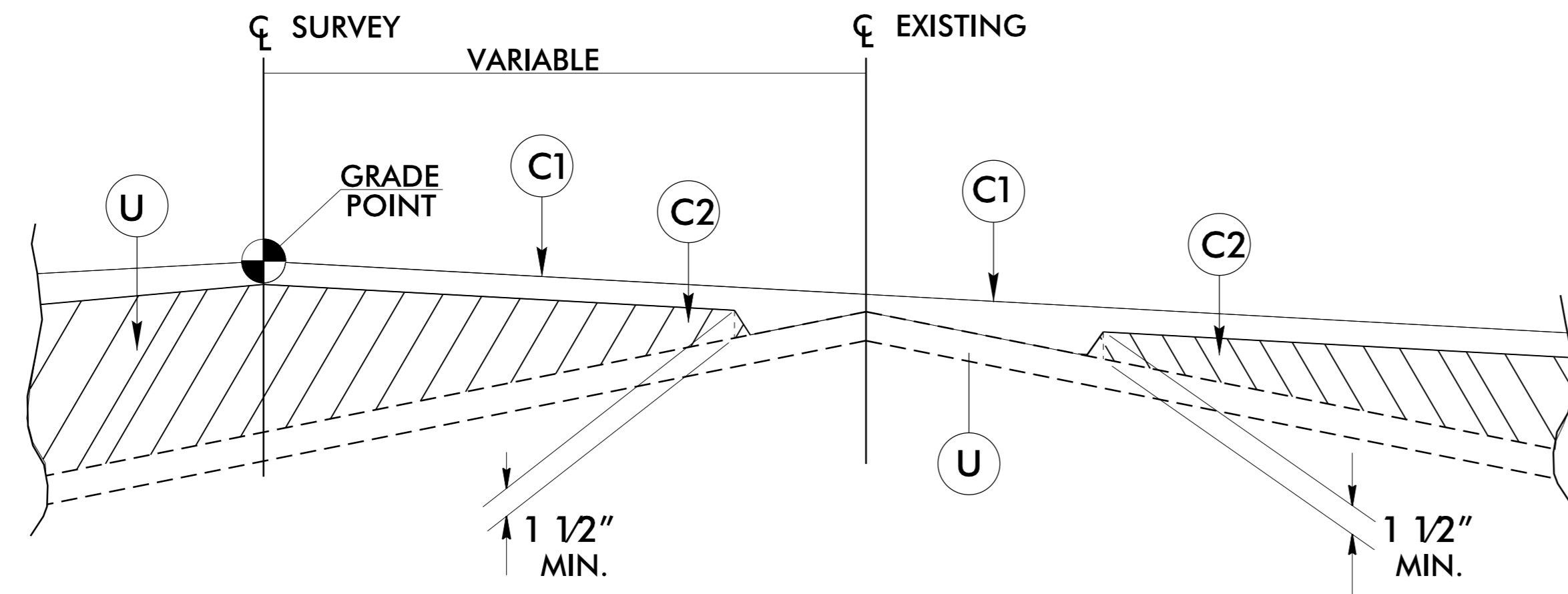
| -BL- POINT | DESC. | NORTH | EAST | ELEVATION | -E- STATION | OFFSET |
|------------|-------------|--------------|--------------|-----------|-------------|----------|
| 1 | BRIDGE NAIL | 1015175.8000 | 2648149.5600 | 73.49 | -03+92.+- | 34.45 LT |
| 2 | BRIDGE NAIL | 1015704.6556 | 2648716.6882 | 74.78 | 03+83.+- | 28.68 LT |
| 3 | BRIDGE NAIL | 1016160.2830 | 2649365.6550 | 76.93 | 11+73.20 | 20.45 RT |
| 4 | BRIDGE NAIL | 1016411.4389 | 2649609.7629 | 76.50 | 15+20.33 | 26.11 LT |
| 925 | BRIDGE NAIL | 1016415.7625 | 2649753.0853 | 77.83 | 16+35.67 | 59.08 RT |



DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON ASSUMED COORDINATES FOR POINT BL-4 "BRIDGE NAIL" WITH COORDINATES OF
 NORTHING: 1016411.439 (ft) EASTING: 2649609.763 (ft)
 THE BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-4" TO -L- STATION 10+00.00 IS
 N 04°-51'-21"E 291.87'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS ASSUMED

NOTES:
 SITE CALIBRATION PARAMETERS HAVE NOT BEEN DETERMINED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE DDC UNIT.
 ◆ INDICATES SET HORIZONTAL PROJECT CONTROL BY THE NCDOT DDC UNIT.
 PROJECT CONTROL ESTABLISHED UTILIZING ASSUMED COORDINATES.

REVISIONS
 03-MAR-2014 10:53
 C:\Users\jg\Documents\Current Projects\US 13 & Reynolds Rd.\Data\SR1212.d01-ddc-shl-C.dgn 8/17/99

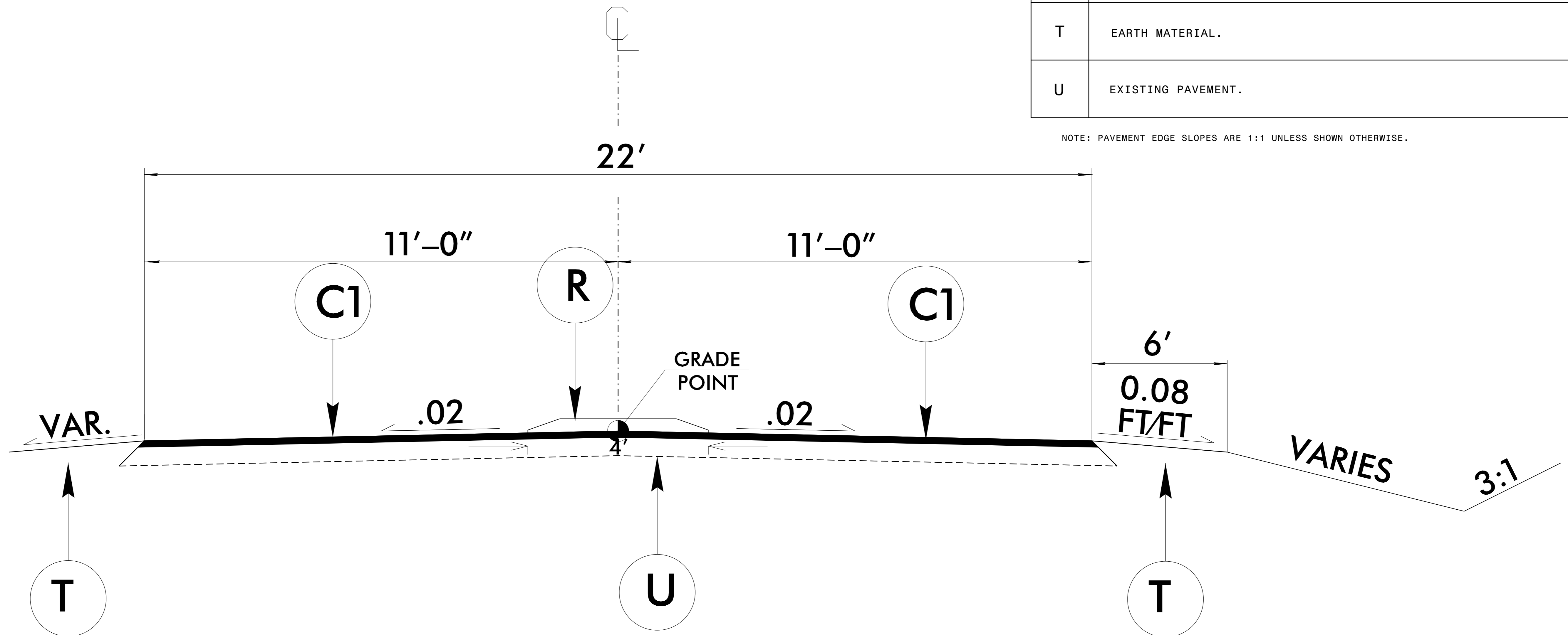


Detail Showing Method Of Wedging

PAVEMENT SCHEDULE

| | |
|----|--|
| C1 | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| C2 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH. |
| R | 5" MONOLITHIC CONCRETE ISLAND (KEYED IN). |
| T | EARTH MATERIAL. |
| U | EXISTING PAVEMENT. |

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 1
-L- STA. 10 + 55.96 to STA. 12 + 27.68

6/2/99
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|-------------|-----------|-----------|
| PROJECT NO. | SHEET NO. | TOTAL NO. |
| 45331.3.FD1 | 3 | |
| | | |

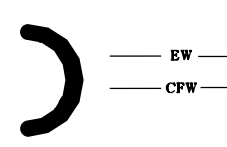
SUMMARY OF QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH MI | WIDTH FT | MOBILIZATION LS | GRADING LS | INCIDENTAL MILLING SY | SURFACE COURSE, S9.5B TONS | ASPHALT BINDER FOR PLANT MIX TONS | 5" MONOLITHIC CONCRETE ISLANDS(KEYED IN) SY | TEMPORARY MULCHING ACR | SILT EXCAVATION CYD | COIR FIBER WATTLE LF | POLYACRYLAMIDE LB | SEEDING & MULCHING AC | SEED FOR REPAIR SEEDING LBS | FERTILIZER FOR REPAIR SEEDING TON | RESPONSE FOR EROSION CONTROL EA |
|---------------------------------------|--------|--------|----------------|----------------------|--------|-------|-----------|--------------------------------|---------------------------|--------------|----------|-----------------|------------|-----------------------|----------------------------|-----------------------------------|---|------------------------|---------------------|----------------------|-------------------|-----------------------|-----------------------------|-----------------------------------|---------------------------------|
| 45331.3.FD1 | Gates | 1 | US 13 / SR1212 | IMPROVE INTERSECTION | 1 | 2 | | NO | NO | 0.123 | 18 | 1 | 1 | 375 | 90 | 5 | 20 | 0.1 | 10 | 40 | 10 | 0.10 | 20 | 1 | 4 |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | 0.123 | | 1 | 1 | 375 | 90 | 5 | 20 | 0.1 | 10 | 40 | 10 | 0.10 | 20 | 1 | 4 |
| TOTAL FOR PROJ NO. 45331.3.FD1 | | | | | | | | | | 0.123 | | 1 | 1 | 375 | 90 | 5 | 20 | 0.1 | 10 | 40 | 10 | 0.10 | 20 | 1 | 4 |
| GRAND TOTAL | | | | | | | | | | 0.123 | | 1 | 1 | 375 | 90 | 5 | 20 | 0.1 | 10 | 40 | 10 | 0.10 | 20 | 1 | 4 |

THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | 4399000000-N | 4685000000-E | 4686000000-E | 4810000000-E |
|---------------------------------------|--------|--------|----------------|----------------------|--------|-------|-----------|--------------|-------|------------------------------|---------------------------|-----------------------------|--------------------------------------|
| | | | | | | | | | | TEMPORARY TRAFFIC CONTROL LS | 4" X 90 M WHITE THERMO LF | 4" X 120 M YELLOW THERMO LF | PAINT PAVEMENT MARKING LINES (4") LF |
| 45331.3.FD1 | Gates | 1 | US 13 / SR1212 | IMPROVE INTERSECTION | 1 | 2 | | 0.123 | 18 | 1 | 550 | 500 | 500 |
| TOTAL FOR MAP NO. 1 | | | | | | | | 0.123 | | 1 | 550 | 500 | 500 |
| TOTAL FOR PROJ NO. 45331.3.FD1 | | | | | | | | 0.123 | | 1 | 550 | 500 | 500 |
| GRAND TOTAL | | | | | | | | 0.123 | | 1 | 550 | 500 | 500 |

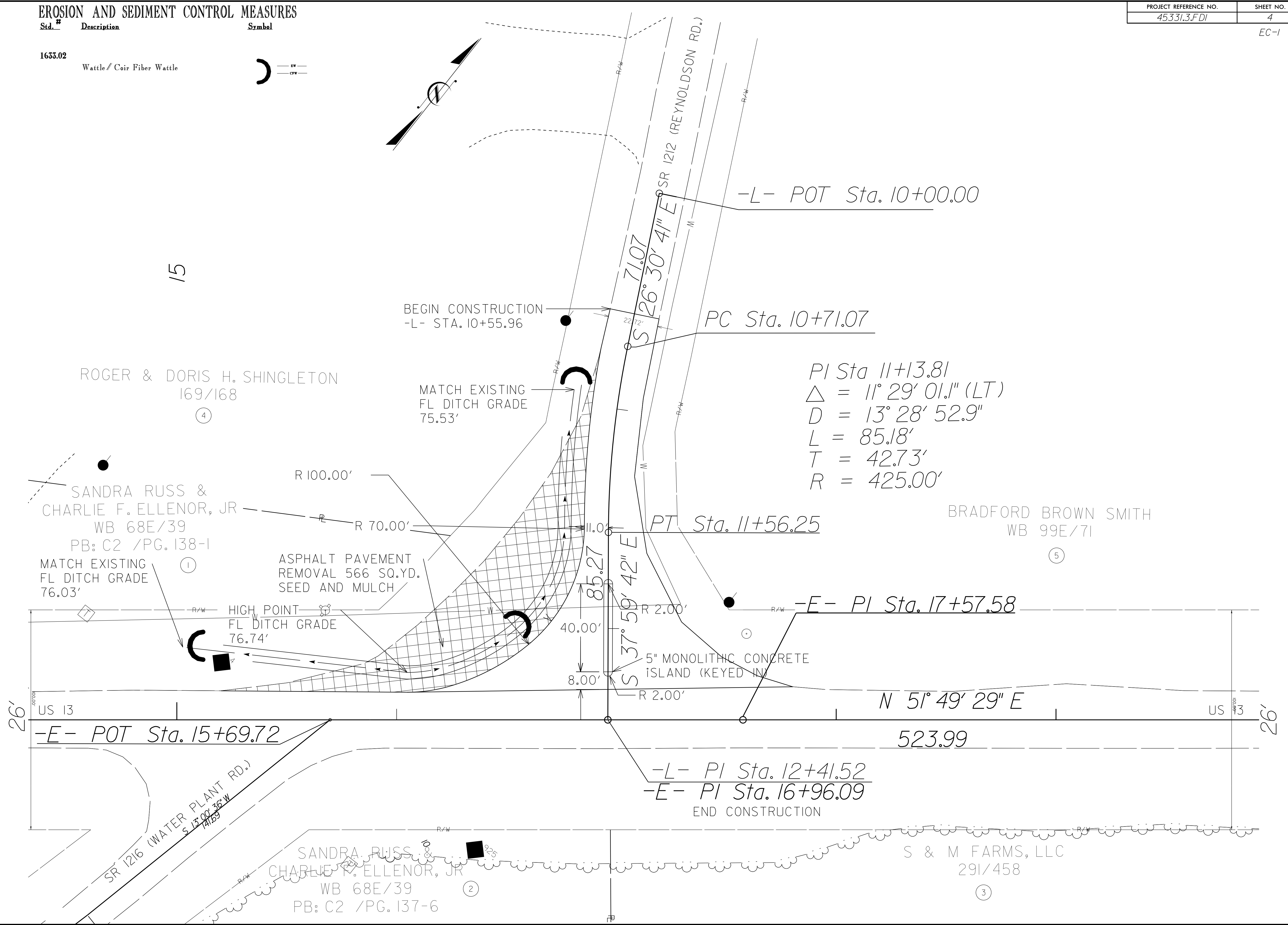
EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---------|----------------------------|---|
| 1633.02 | Wattle / Coir Fiber Wattle |  |

REVISIONS

8/17/99

I:\3-MAR-2016\09:31\Users\CS\Projects\45331.3.FDI\Current Projects\US 13 & Reynoldson Rd.\Gates\45331.3.FDI.s01-addc.sh4.dgn



PI Sta 11+13.81
 $\Delta = 11^\circ 29' 01.1''$ (LT)
 $D = 13^\circ 28' 52.9''$
 $L = 85.18'$
 $T = 42.73'$
 $R = 425.00'$

-E- POT Sta. 15+69.72

-L- PI Sta. 12+41.52
 -E- PI Sta. 16+96.09
 END CONSTRUCTION

26'

26'

523.99

US 13

US 13

SR 126 (WATER PLANT RD.)
 $S 17^\circ 00' 36'' W$
 $74.63'$

SANDRA RUSS &
 CHARLIE F. ELLENOR, JR.
 WB 68E/39
 PB: C2 /PG. 137-6

S & M FARMS, LLC
 291/458

ROGER & DORIS H. SHINGLETON
 169/168

SANDRA RUSS &
 CHARLIE F. ELLENOR, JR.
 WB 68E/39
 PB: C2 /PG. 138-1

BRADFORD BROWN SMITH
 WB 99E/71

BEGIN CONSTRUCTION
 -L- STA. 10+55.96

MATCH EXISTING
 FL DITCH GRADE
 75.53'

MATCH EXISTING
 FL DITCH GRADE
 76.03'

ASPHALT PAVEMENT
 REMOVAL 566 SQ.YD.
 SEED AND MULCH

HIGH POINT
 FL DITCH GRADE
 76.74'

5" MONOLITHIC CONCRETE
 ISLAND (KEYED IN)

-E- PI Sta. 17+57.58

26'

26'

US 13

US 13

SR 126 (WATER PLANT RD.)
 $S 17^\circ 00' 36'' W$
 $74.63'$

SANDRA RUSS &
 CHARLIE F. ELLENOR, JR.
 WB 68E/39
 PB: C2 /PG. 137-6

S & M FARMS, LLC
 291/458

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 WB 68E/39
 PB: C2 /PG. 138-1

BRADFORD BROWN SMITH
 WB 99E/71

BEGIN CONSTRUCTION
 -L- STA. 10+55.96

MATCH EXISTING
 FL DITCH GRADE
 75.53'

MATCH EXISTING
 FL DITCH GRADE
 76.03'

ASPHALT PAVEMENT
 REMOVAL 566 SQ.YD.
 SEED AND MULCH

HIGH POINT
 FL DITCH GRADE
 76.74'

5" MONOLITHIC CONCRETE
 ISLAND (KEYED IN)

-E- PI Sta. 17+57.58

26'

26'

US 13

US 13

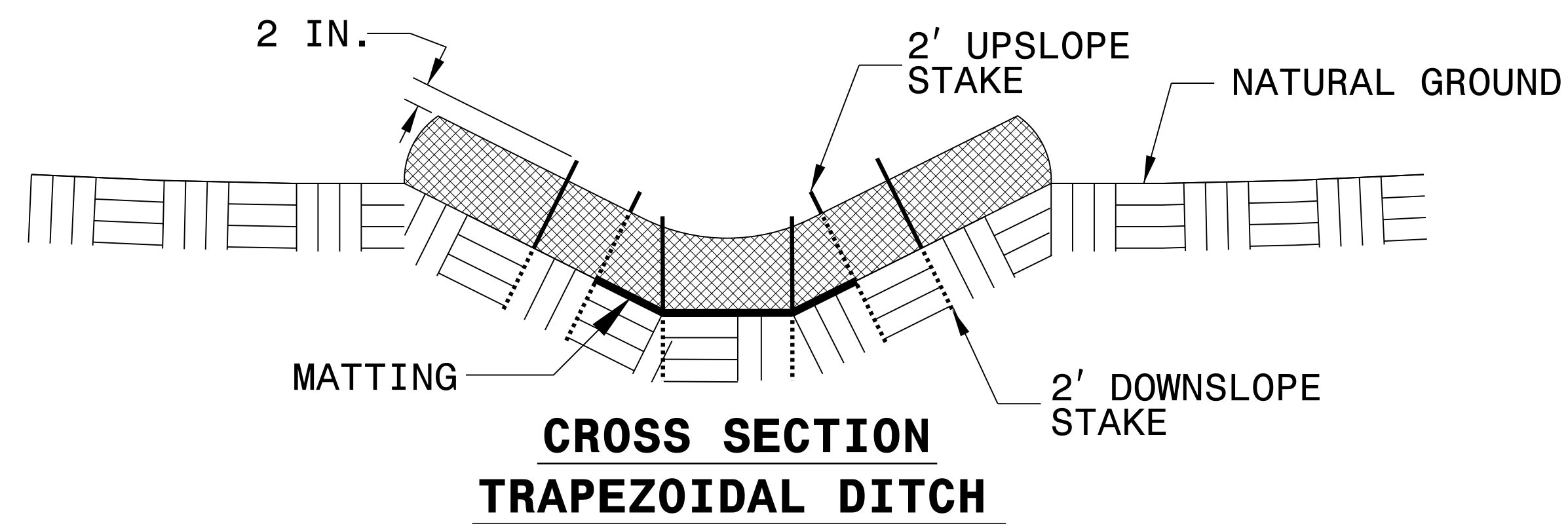
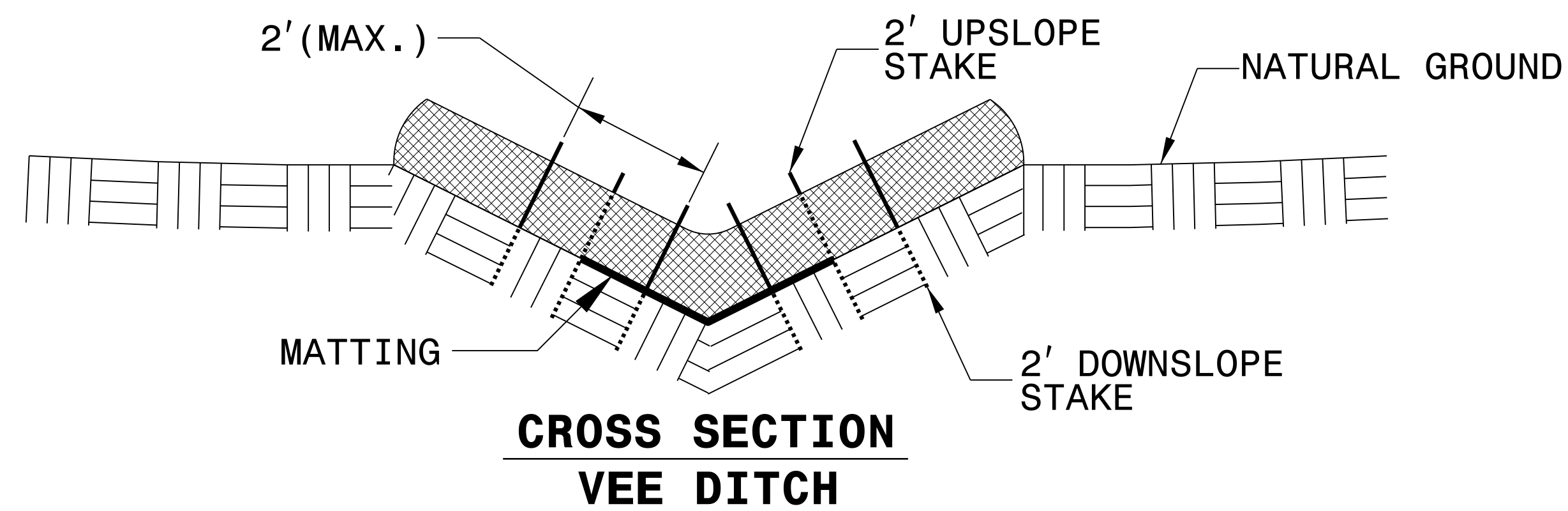
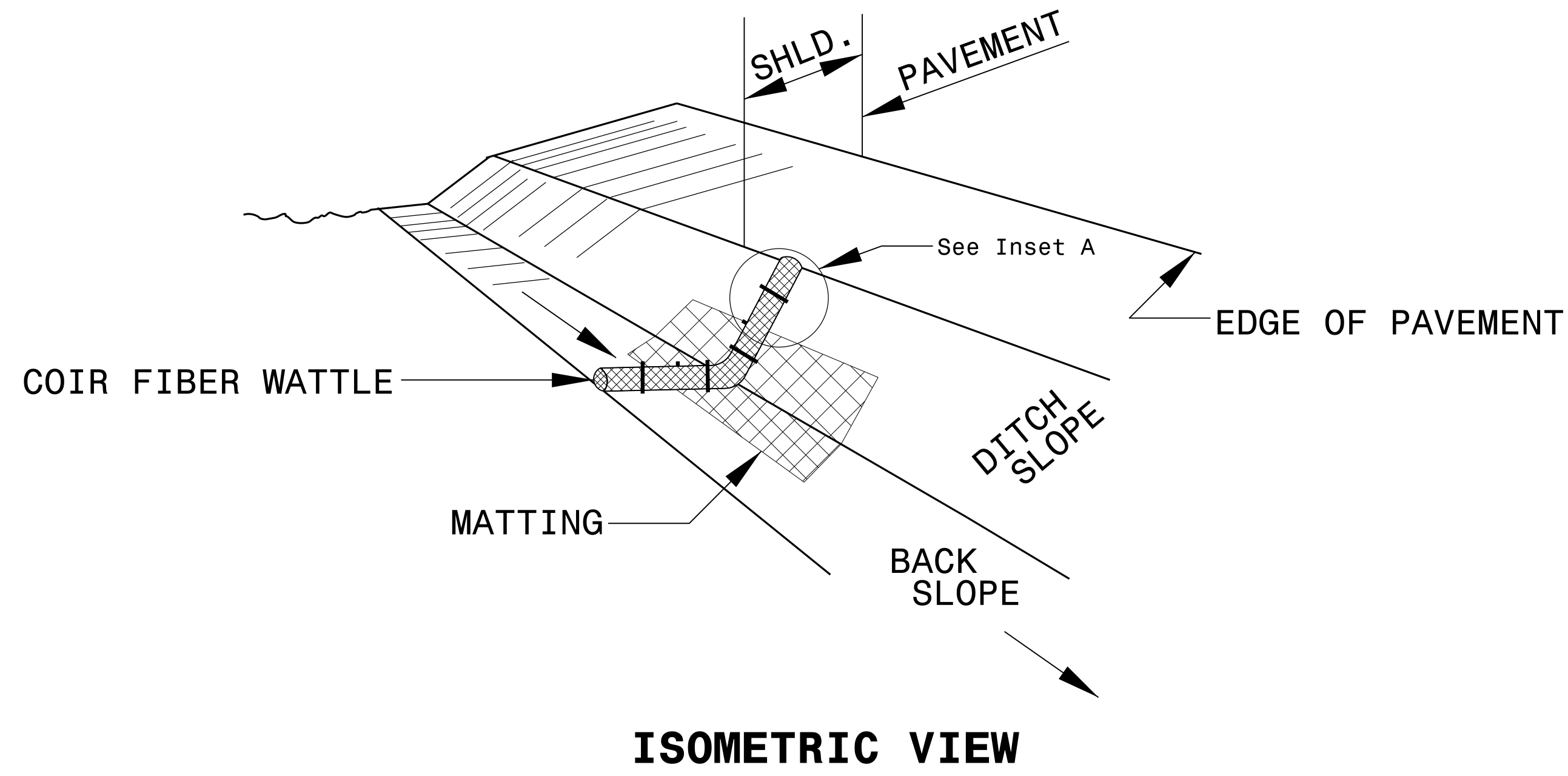
SR 126 (WATER PLANT RD.)
 $S 17^\circ 00' 36'' W$
 $74.63'$

SANDRA RUSS &
 CHARLIE F. ELLENOR, JR.
 WB 68E/39
 PB: C2 /PG. 137-6

S & M FARMS, LLC
 291/458

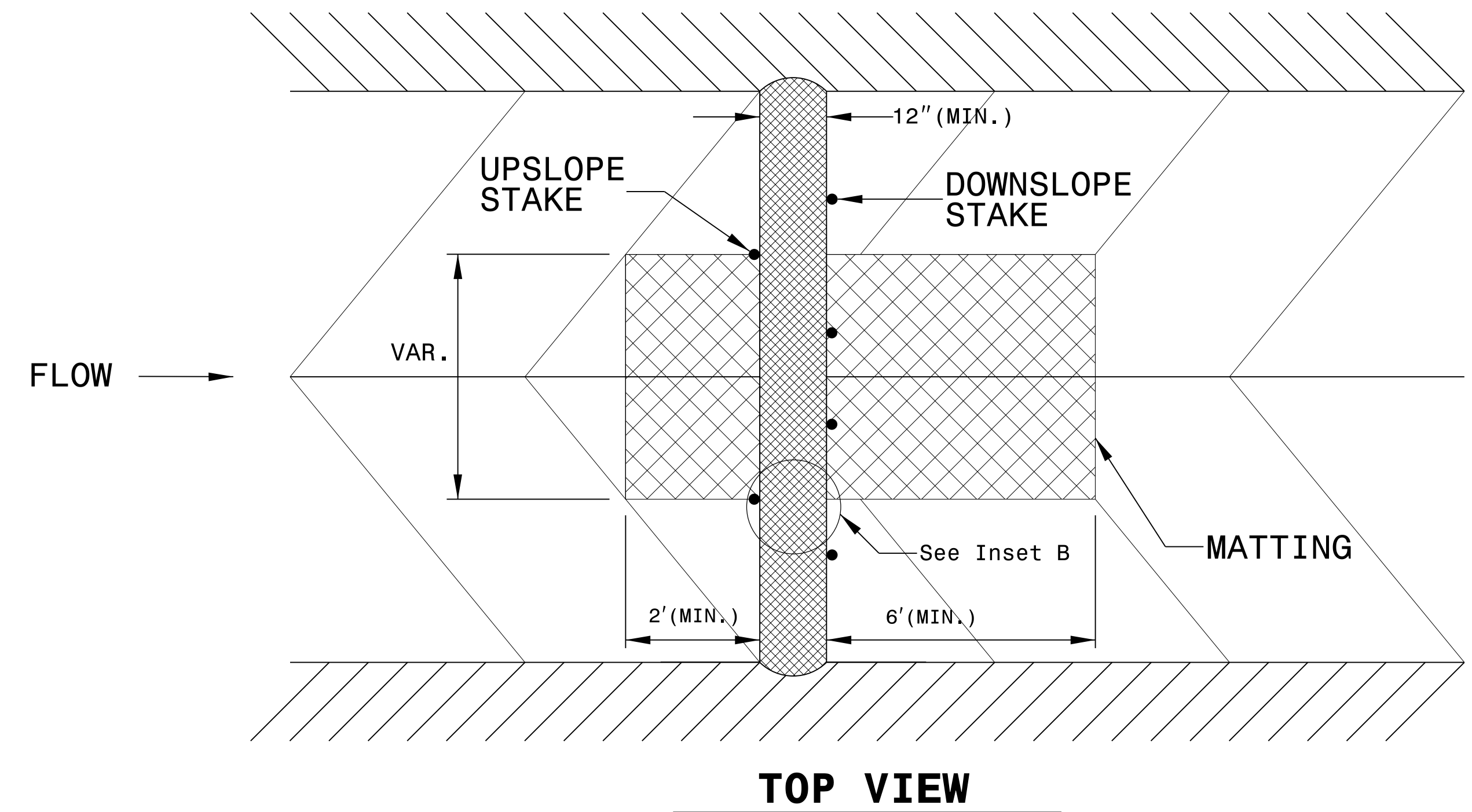
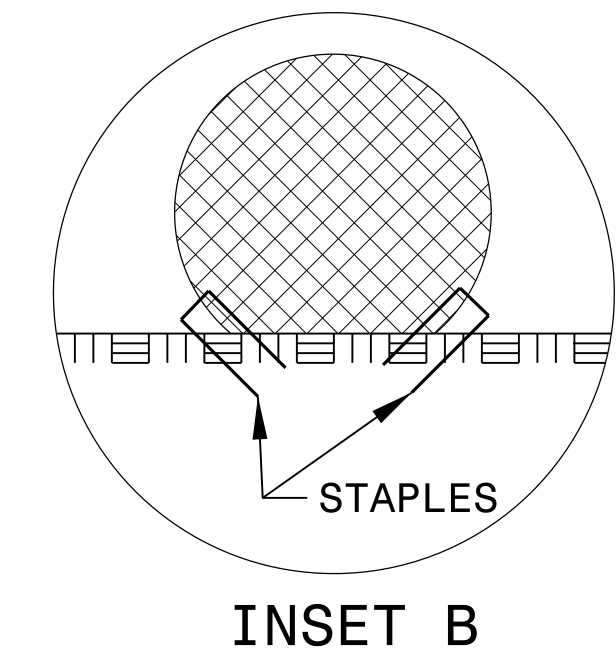
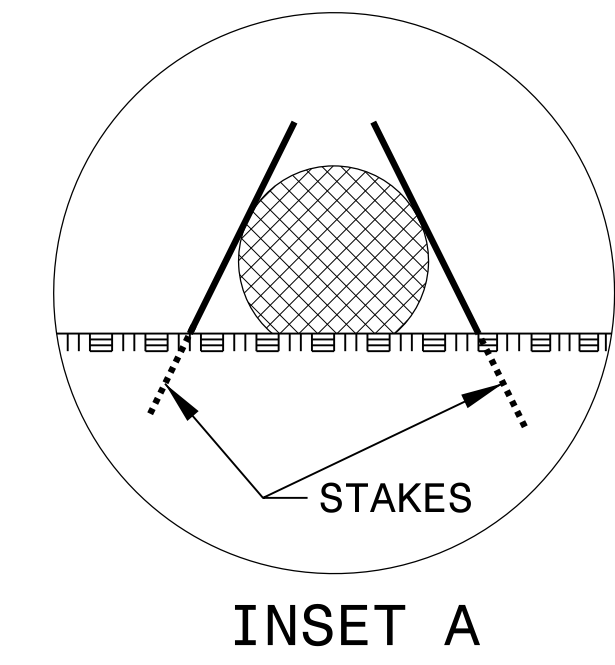
| | |
|--------------------------------------|---------------------|
| PROJECT REFERENCE NO. 45331.3.FDI | SHEET NO. EC-2 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

COIR FIBER WATTLE DETAIL



NOTES:

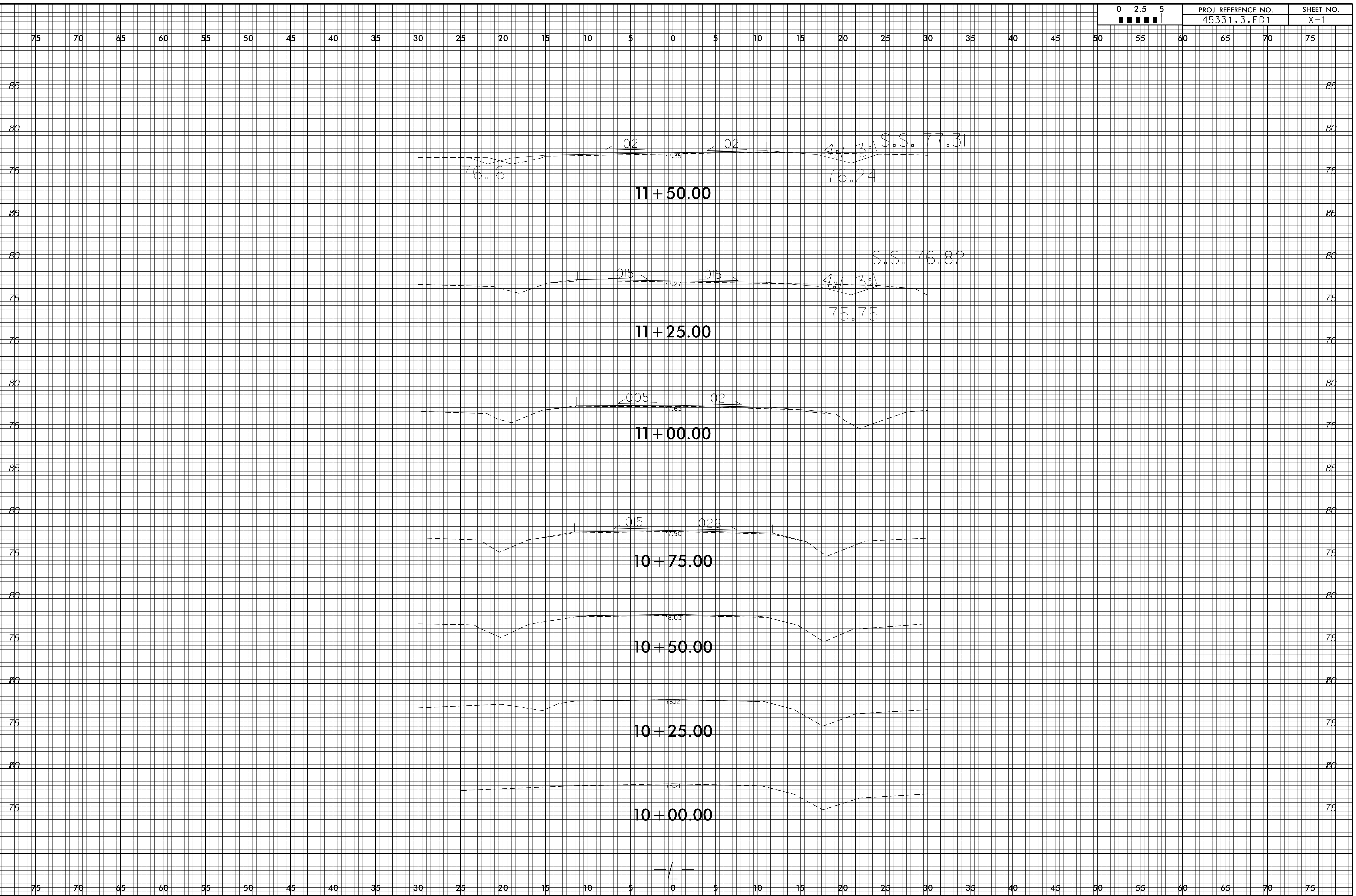
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



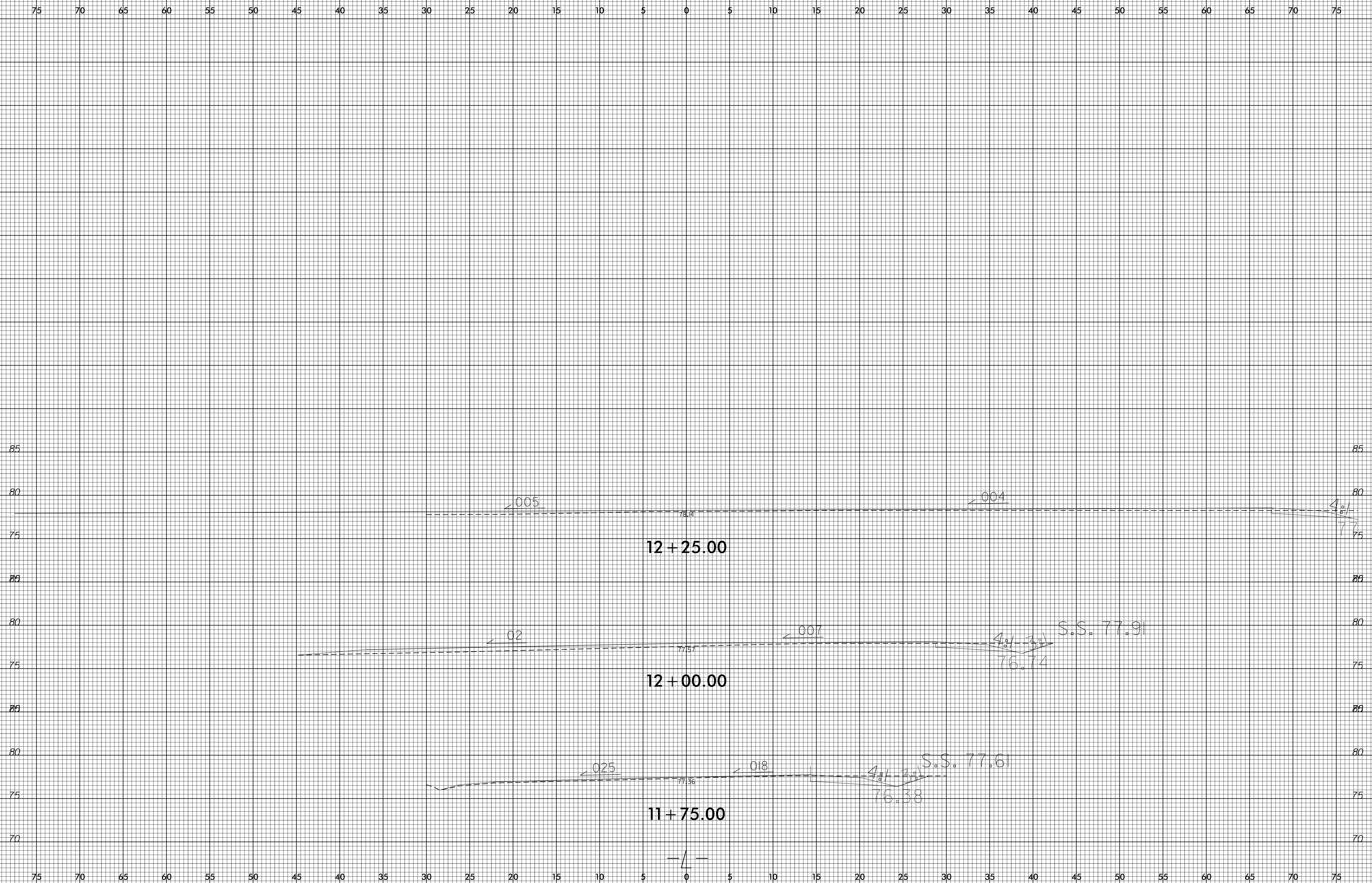
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

| <i>SITE DESCRIPTION</i> | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i> |
|--|---------------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH. |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE, EXCEPT FOR PERIMETERS AND HQW ZONES. |



8/23/99



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