

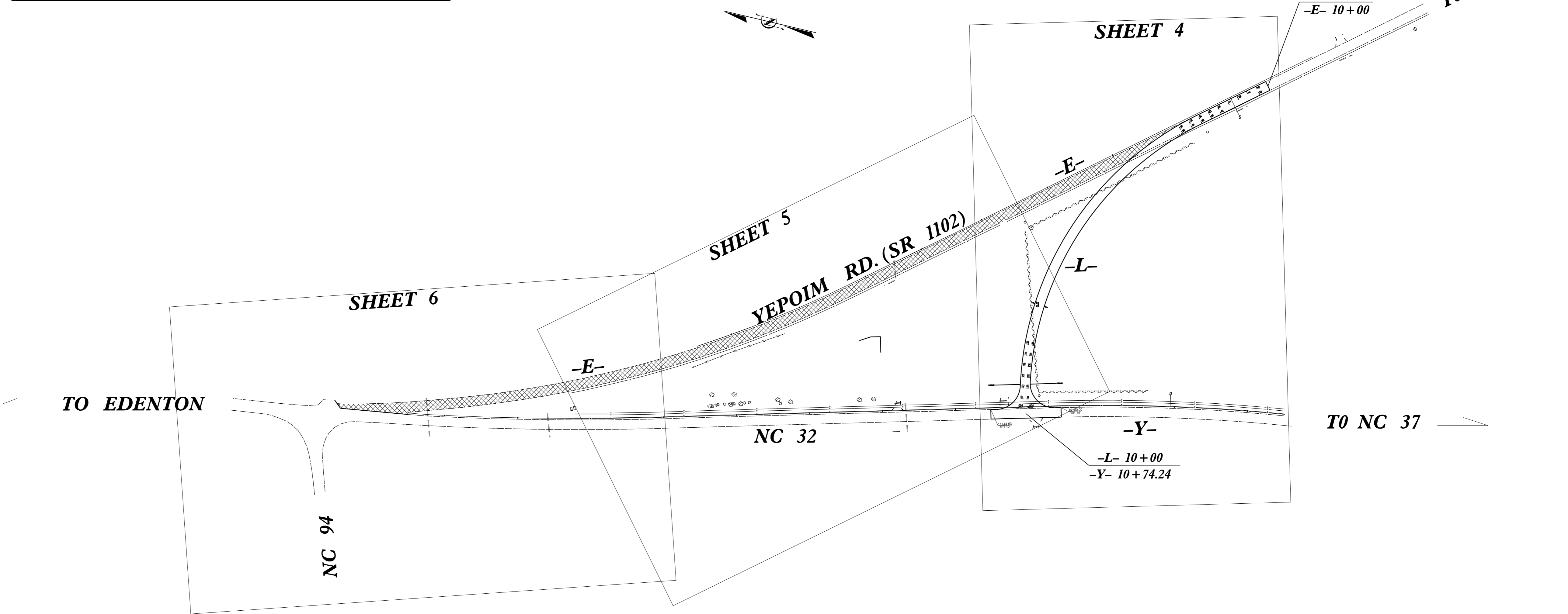
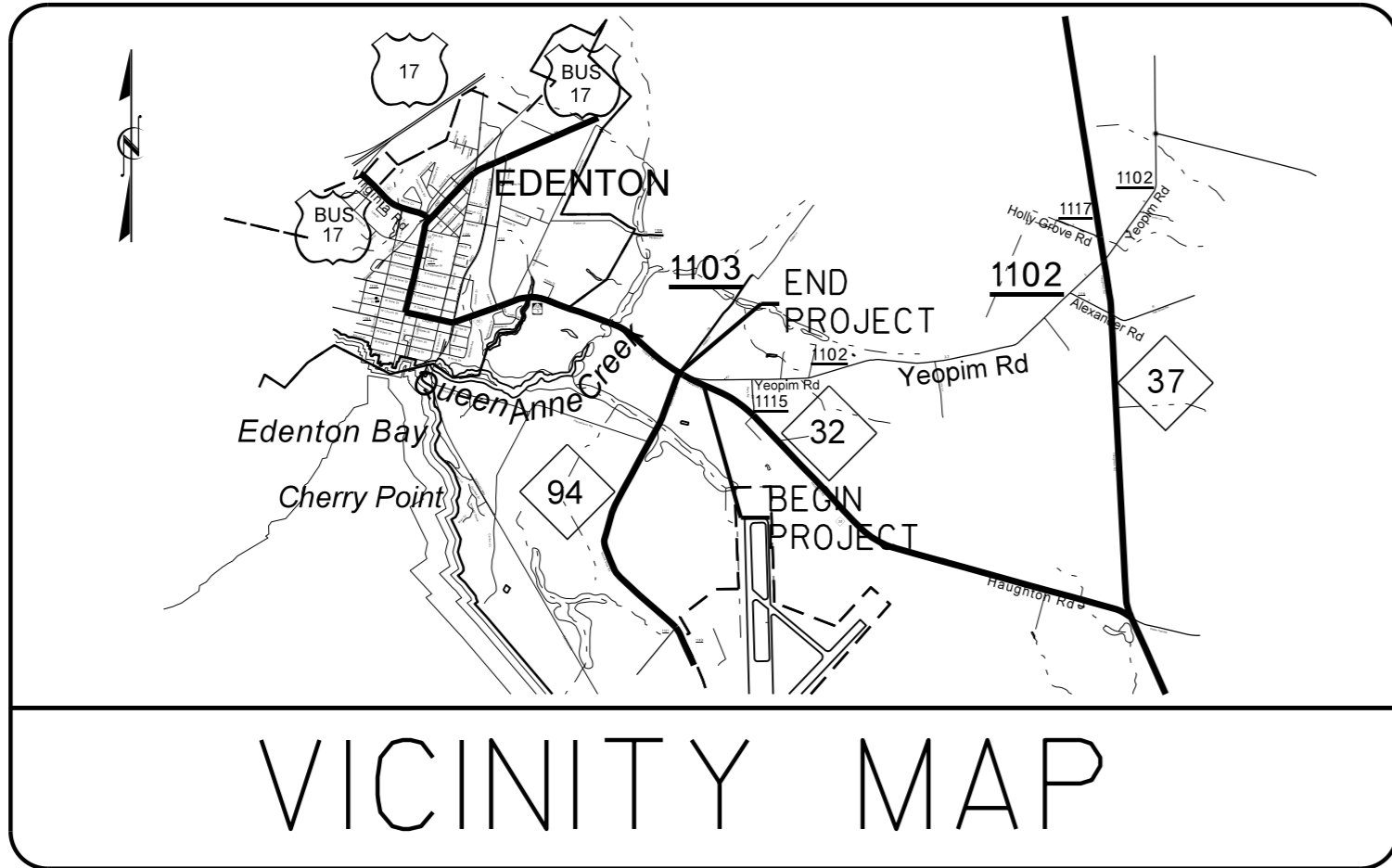
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45331.3.3	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45331.1.3	HHR-1102(13)	PE	
45331.2.3		RW	
45331.3.3		CONST.	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CHOWAN COUNTY

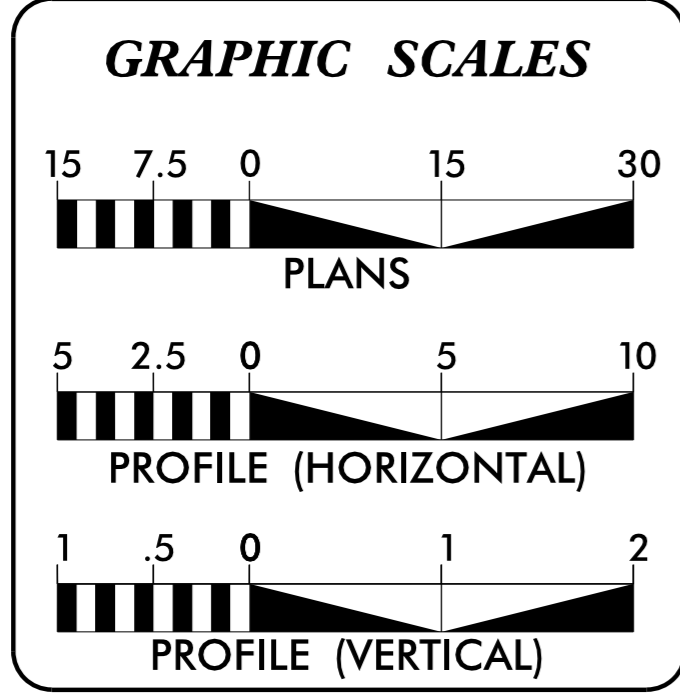
LOCATION: NC 32 & YEOPIM RD.(SR 1102)

TYPE OF WORK: DRAINAGE, GRADING, BASE, PAVING  
PAVEMENT REMOVAL AND RESURFACING



PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

CONTRACT NUMBER: DA-00167 TIP #: W-5201C



**DESIGN DATA**

V = 45 MPH

**PROJECT LENGTH**

STATE PROJECT LENGTH OF ROADWAY = 0.171 MILES

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

2012 STANDARD SPECIFICATIONS

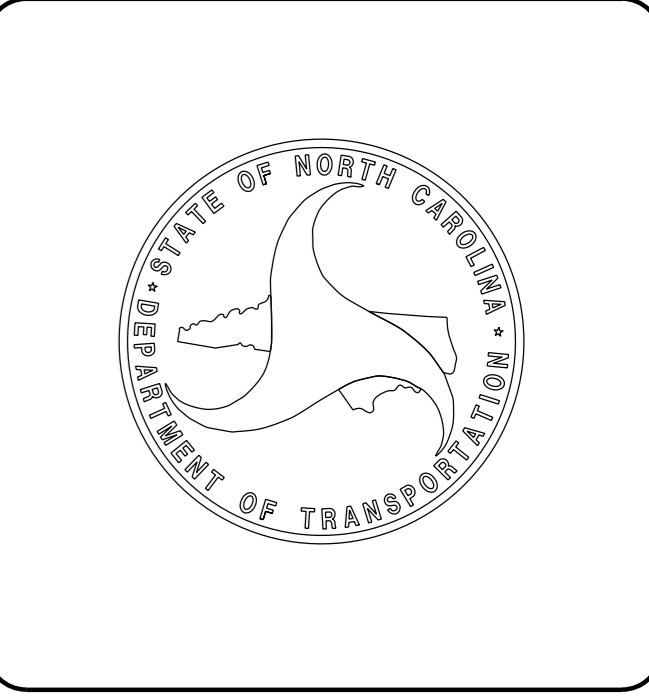
RIGHT OF WAY DATE: MAY 17, 2013

LETTING DATE: SEPTEMBER 18, 2013

BARRY HOBBS, PE  
DIVISION PROJECT MANAGER

CHRIS SLACHTA  
DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS  
DIVISION DESIGN ENGINEER



07-AUG-2013 10:19 C:\Users\SFenwick\Desktop\Current Projects\NC 32 & YEOPIM RD.(SR 1102)\Chowan\TBD\_c01-ddc-shl.dgn SFenwick AT DICAD265783 09/08/99

INDEX OF SHEETS

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	SUMMARY OF DRAINAGE QUANTITIES EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY
4 THRU	PLAN SHEET PROFILE SHEET
TCP-1 THRU TCP-	TRAFFIC CONTROL PLANS
EC-1 THRU EC-	EROSION CONTROL PLANS
U-1 THRU U-	UTILITIES PLANS
X-1 THRU X-	CROSS-SECTIONS

GENERAL NOTES: 2012 SPECIFICATIONS  
EFFECTIVE: 01-17-2012  
REVISED: 07-30-2012

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.

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

SUPERELEVATION:  
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:  
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH

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.

DRIVEWAYS:  
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:  
STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

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

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

EFF. 01-17-2012  
REV. 10-30-2012  
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:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method 11
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superlevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
225.09	Guide for Shoulder and Ditch Transition at Grade Separations
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
876.02	Guide for Rip Rap at Pipe Outlets

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 RW 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	▭ 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:

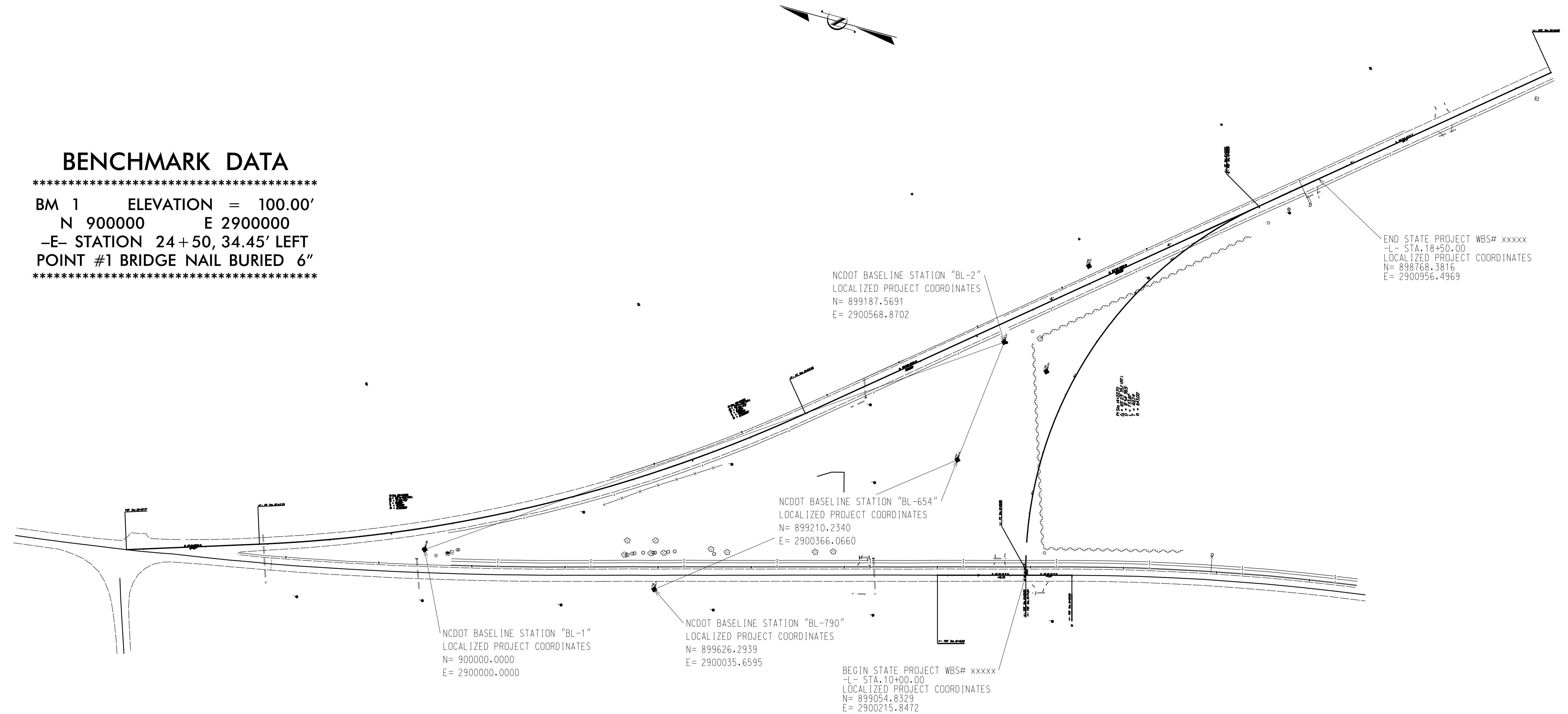
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	----- ?UTL
U/G Tank; Water, Gas, Oil	▭
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	▭
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to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

# SURVEY CONTROL SHEET

-BL- POINT	DESC.	NORTH	EAST	ELEVATION	-E- STATION	OFFSET
1	BRIDGE NAIL	900000.0000	2900000.0000	100.00	24+51.05	34.45 LT
2	BRIDGE NAIL	899187.5691	2900568.8702	100.67	14+64.05	28.68 LT
654	BRIDGE NAIL	899210.2340	2900366.0660	100.41	16+11.45	169.80 LT
700	BRIDGE NAIL	899626.2939	2900035.6595	100.19	21+19.46	179.51 LT

### BENCHMARK DATA

\*\*\*\*\*  
 BM 1 ELEVATION = 100.00'  
 N 900000 E 2900000  
 -E- STATION 24+50, 34.45' LEFT  
 POINT #1 BRIDGE NAIL BURIED 6"  
 \*\*\*\*\*



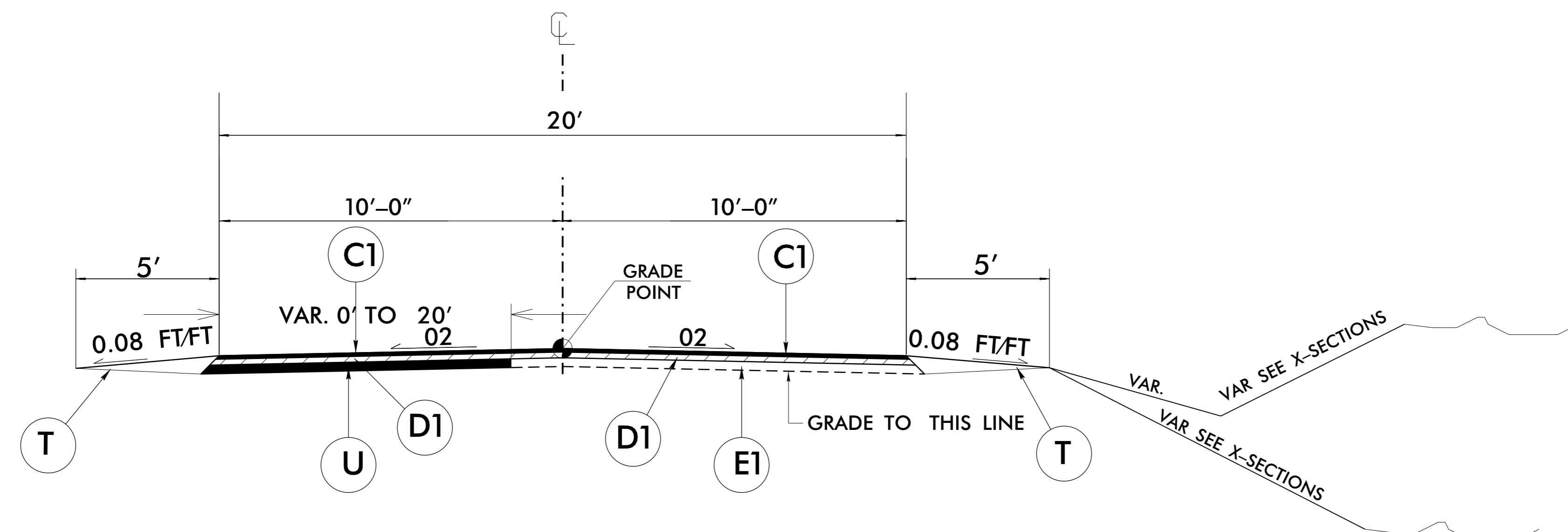
**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON ASSUMED COORDINATES FOR POINT BL-1 "BRIDGE NAIL" WITH COORDINATES OF  
 NORTHING: 900000.000(ft) EASTING: 2900000.000(ft)  
 THE BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO -L- STATION 10+00.00 IS  
 S 69°-23'-38"W 377.15'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS ASSUMED

SCALE:  
 1" = 100'  
 (FULL SIZE)

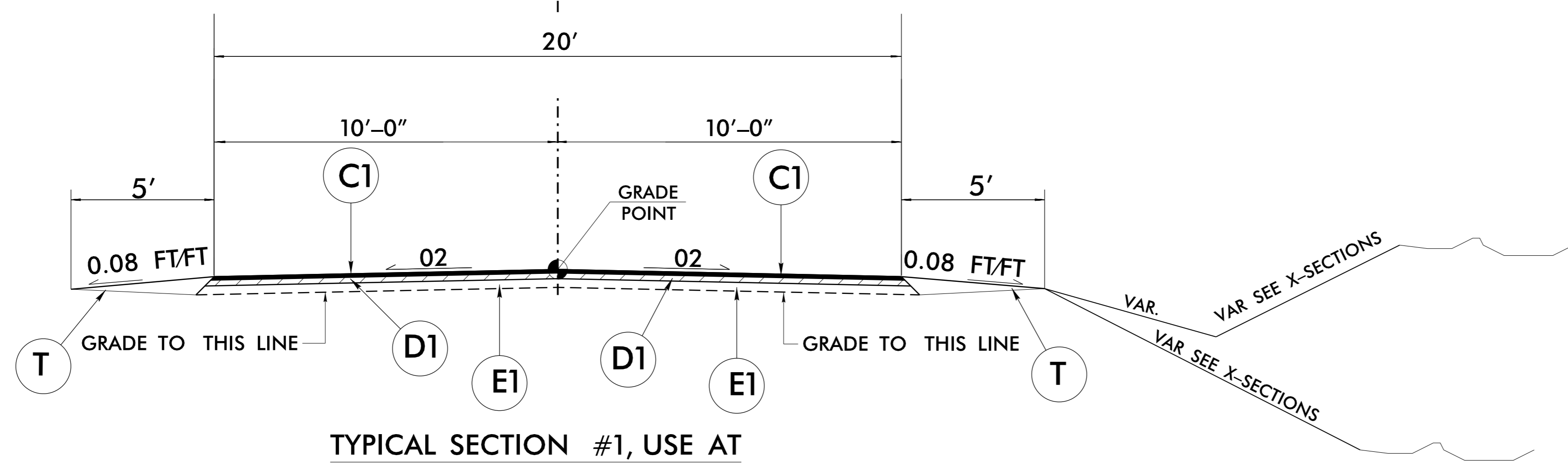
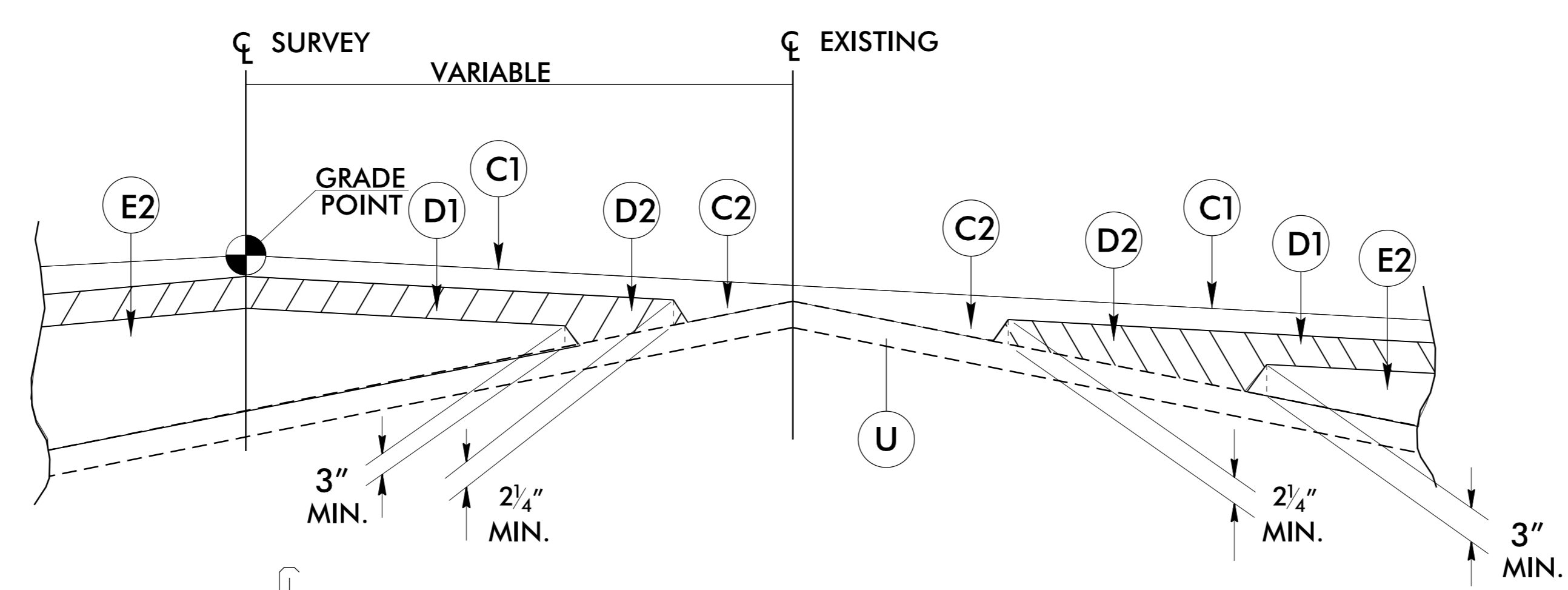
**NOTES:**  
 SITE CALIBRATION PARAMETERS HAVE NOT BEEN DETERMINED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE DDC UNIT.  
 ◆ INDICATES SET HORIZONTAL PROJECT CONTROL BY THE NCDOT DDC UNIT.  
 PROJECT CONTROL ESTABLISHED UTILIZING ASSUMED COORDINATES.

REVISIONS

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**TYPICAL SECTION #2, USE AT**  
 -L- STA. 15+40.00 TO -L- STA 18+75.83



**TYPICAL SECTION #1, USE AT**  
 -L- STA 10+10 TO -L- STA 15+40.00

## PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 3" IN DEPTH.
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT GREATER THAN 5½" IN DEPTH OR LESS THAN 3" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

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PROJECT NO.	SHEET NO.
45331.3.3	3

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	000100000-N	004300000-N	031800000-E	032000000-E	033530000-E	033540000-E	099500000-E	122000000-E	148900000-E	149800000-E	152500000-E	157500000-E
												MOBILIZATION	GRADING	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	FOUNDATION CONDITIONING FABRIC	18" DRAINAGE PIPE ^ LF	24" DRAINAGE PIPE ^ LF	PIPE REMOVAL	INCIDENTAL STONE BASE	BASE COURSE, B25.0B	INTERMEDIATE COURSE, I19.0B	SURFACE COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX
										MI	FT	LS	LS	TON	SY	LF	LF	LF	TONS	TONS	TONS	TONS	TONS
454331.3.3	Chowan	1	SR 1102	IMPROVE INTERSECTION	1	2		NO	NO	0.142	20	1.00	1.00	18.00	85.00	50.00	80.00	20.00	12.00	456.00	360.00	198.00	51.00
<b>TOTAL FOR PROJ NO. 454331.3.3</b>												<b>1.00</b>	<b>1.00</b>	<b>18.00</b>	<b>85.00</b>	<b>50.00</b>	<b>80.00</b>	<b>20.00</b>	<b>12.00</b>	<b>456.00</b>	<b>360.00</b>	<b>198.00</b>	<b>51.00</b>
<b>GRAND TOTAL</b>												<b>1.00</b>	<b>1.00</b>	<b>18.00</b>	<b>85.00</b>	<b>50.00</b>	<b>80.00</b>	<b>20.00</b>	<b>12.00</b>	<b>456.00</b>	<b>360.00</b>	<b>198.00</b>	<b>51.00</b>

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	439900000-N	601500000-E	603000000-E	6071012000-E	6071020000-E	6084000000-E	6090000000-E	6093000000-E	6117000000-E
												TEMPORARY SILT FENCE	TEMPORARY MULCHING	SILT EXCAVATION	COIR FIBER WATTLE	POLYACRYLAMIDE (PAM)	SEEDING & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	RESPONSE FOR EROSION CONTROL
										MI	FT	LF	ACR	CY	LF	LB	ACR	LB	TON	EA
454331.3.3	Chowan	1	SR 1102	IMPROVE INTERSECTION	1	2		NO	NO	0.142	20	750.00	1.00	10	90	3	1.5	20	1.00	4
<b>TOTAL FOR PROJ NO. 454331.3.3</b>												<b>750.00</b>	<b>1.00</b>	<b>10.00</b>	<b>90.00</b>	<b>3.00</b>	<b>1.50</b>	<b>20.00</b>	<b>1.00</b>	<b>4</b>
<b>GRAND TOTAL</b>												<b>750.00</b>	<b>1.00</b>	<b>10.00</b>	<b>90.00</b>	<b>3.00</b>	<b>1.50</b>	<b>20.00</b>	<b>1.00</b>	<b>4.00</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	439900000-N	468500000-E	468600000-E	481000000-E
										TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	PAINT PAVEMENT MARKING LINES (4")
										LS	LF	LF	LF
454331.3.3	Chowan	1	SR 1102	SQUARE UP INTERSECTION OF SR 1102	1	2		0.142	20	1.00	1,800	1,800	1,800
<b>TOTAL FOR PROJ NO. 454331.3.3</b>										<b>1</b>	<b>1,800</b>	<b>1,800</b>	<b>1,800</b>
<b>GRAND TOTAL</b>										<b>1</b>	<b>1,800</b>	<b>1,800</b>	<b>1,800</b>

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**PARCEL INDEX SHEET**

PROJECT REFERENCE NO.	SHEET NO.
45331.3.3	3-A
R/W SHEET NO.	3

10/26/98

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	R / W TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	TEMPORARY CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT	PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	R / W TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT							
1	MAREN LASSITER	3.80 Ac	29,867 SF	3,114 Ac																						
2	LOWELL J. GESEKE	2.54 Ac	8,137 SF		2,353 Ac																					
3	M. C. HOBBS HEIRS	44.54 Ac	0 SF	44.54 Ac																						
4	MELVIN C. LANE	0.62 Ac	0 SF		0.62 Ac																					
5	K. SMITH & T. AINSLEY	1.46 Ac	0 SF	1.46 Ac																						

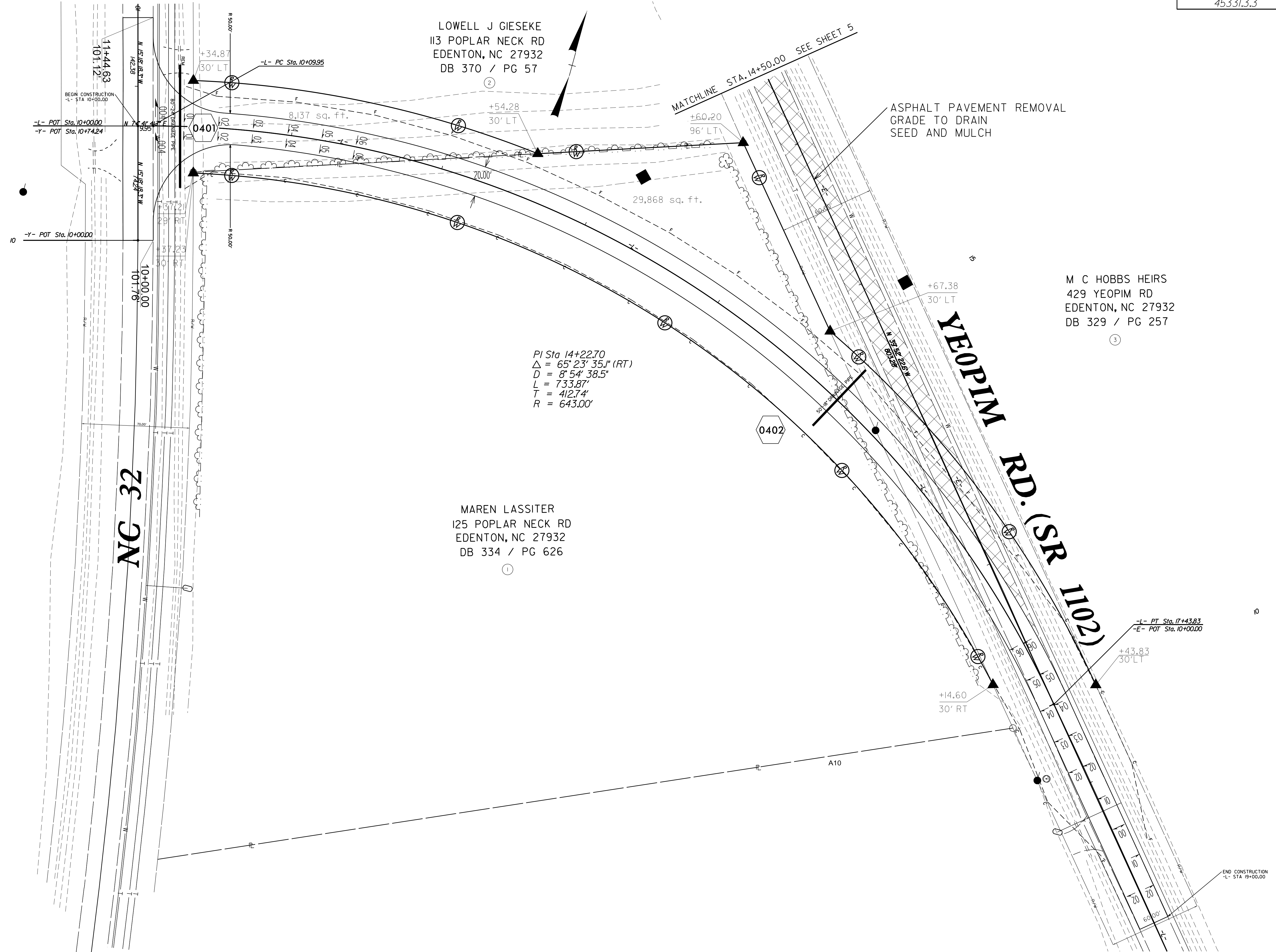




8/17/99

REVISIONS

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 01-NOV-2013 10:55:58



LOWELL J GIESEKE  
 113 POPLAR NECK RD  
 EDENTON, NC 27932  
 DB 370 / PG 57

M C HOBBS HEIRS  
 429 YEOPIM RD  
 EDENTON, NC 27932  
 DB 329 / PG 257

MAREN LASSITER  
 125 POPLAR NECK RD  
 EDENTON, NC 27932  
 DB 334 / PG 626

ASPHALT PAVEMENT REMOVAL  
 GRADE TO DRAIN  
 SEED AND MULCH

PI Sta 14+22.70  
 $\Delta = 65^\circ 23' 35.1''$  (RT)  
 $D = 8' 54' 38.5''$   
 $L = 733.87'$   
 $T = 412.74'$   
 $R = 643.00'$

NC 32

YEOPIM RD. (SR 1102)

MATCHLINE STA. 14+50.00 SEE SHEET 5

END CONSTRUCTION  
 -L- STA 19+00.00

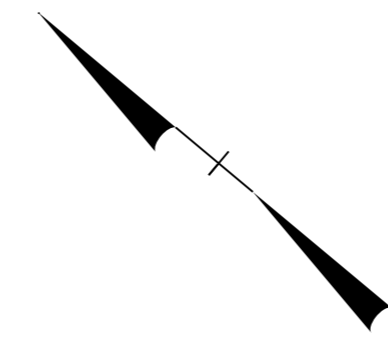
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PROJECT REFERENCE NO.	SHEET NO.
45331.3.3	5
R/W SHEET NO.	5

5/14/99

15

20



MATCHLINE STA. 22+50.00 SEE SHEET 6

M C HOBBS HEIRS  
429 YEOPIM RD  
EDENTON, NC 27932  
DB 329 / PG 257

ASPHALT PAVEMENT REMOVAL  
GRADE TO DRAIN  
SEED AND MULCH

PI Sta 22+64.06  
 $\Delta = 22^\circ 11' 14.8" (RT)$   
D = 2' 28" 17.2"  
L = 90.02'  
T = 46.078'  
R = 2.35000'

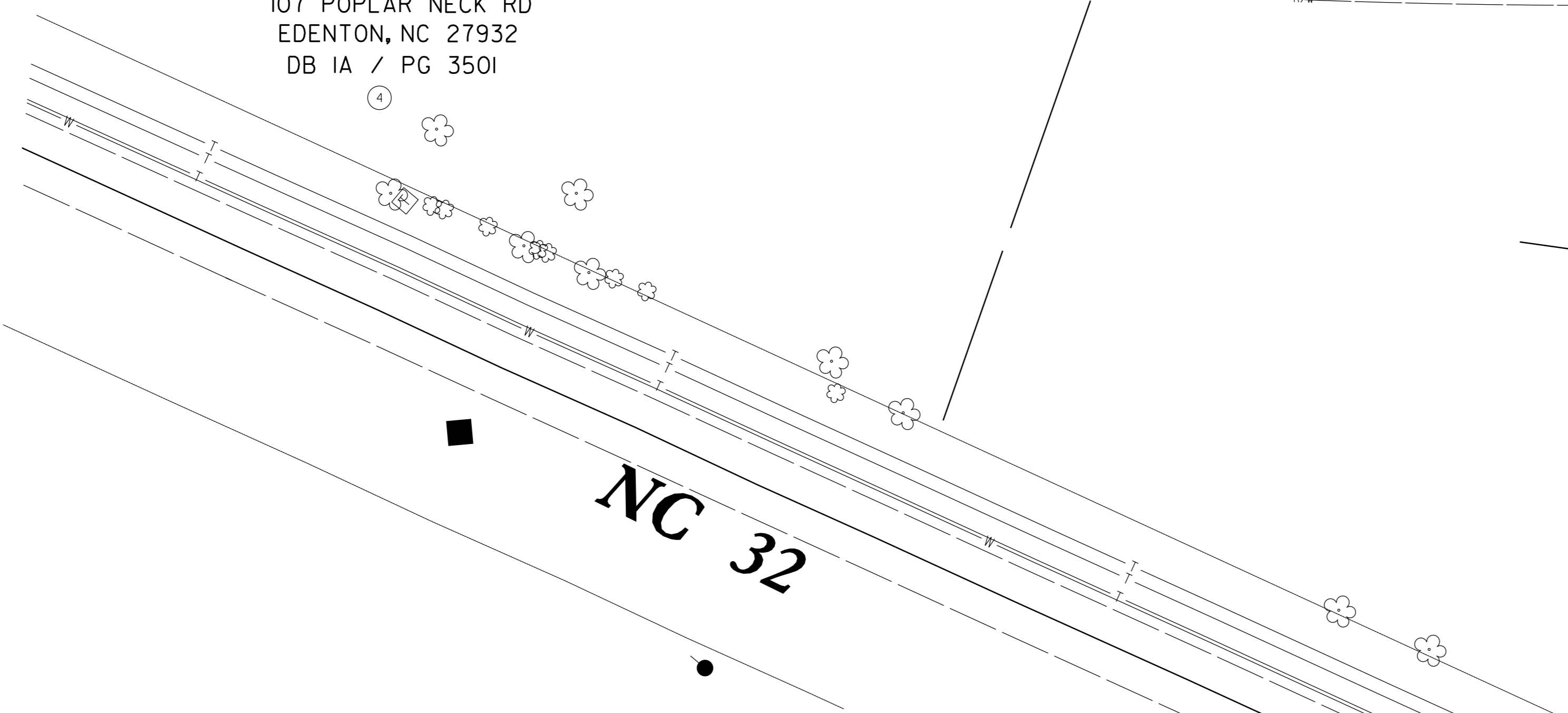
-E- PC Sta. 18+03.28

**YEOPIM RD. (SR 1102)**

N 37.52° 22.6' W  
803.28'

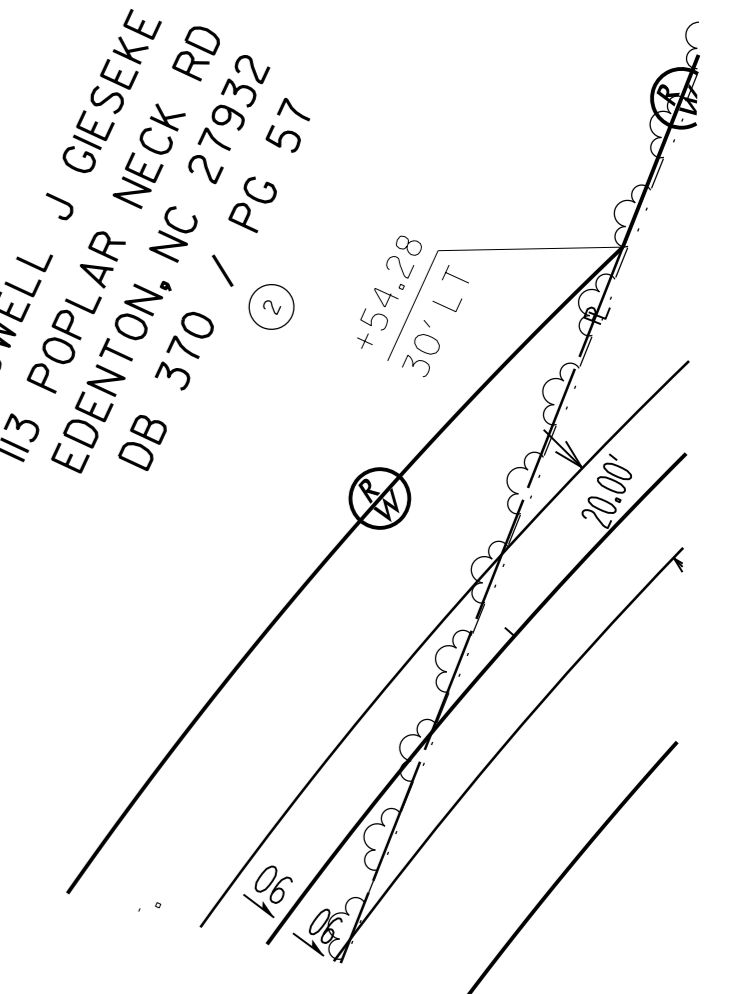
MELVIN C LANE  
107 POPLAR NECK RD  
EDENTON, NC 27932  
DB 1A / PG 3501

LOWELL GIESEKE  
113 POPLAR NECK RD  
EDENTON, NC 27932  
DB 370 / PG 57



**NC 32**

LOWELL J GIESEKE  
113 POPLAR NECK RD  
EDENTON, NC 27932  
DB 370 / PG 57



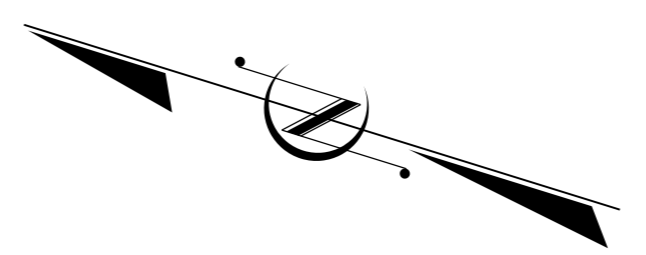
100.00'

60.00'

MATCHLINE STA. 14+50.00 SEE SHEET 4

03-SEP-2013 14:18:32 & YEOPIM RD.(SR 1102) Chowan\TBD.d01-ddc.sh5.dgn  
D:\Current Projects\45331.3.3\45331.3.3.dwg

5/14/99



25

M C HOBBS HEIRS  
DB 329 / PG 257  
429 YEOPIM RD  
EDENTON, NC 27932

3

K. SMITH & T. AINSLEY  
403 YEOPIM RD  
EDENTON, NC 27932  
DB 308 / PG 621

5

ASPHALT PAVEMENT REMOVAL  
GRADE TO DRAIN  
SEED AND MULCH

PI Sta 22+64.06  
Δ = 22' 14.8" (RT)  
D = 2' 28' 17.2"  
L = 90.02'  
T = 460.78'  
R = 2,350.00'

**YEOPIM RD. (SR 1102)**

MATCHLINE STA. 22+50.00  
SEE SHEET 5

MELVIN C LANE  
107 POPLAR NECK RD  
EDENTON, NC 27932  
DB 1A / PG 3501

4

**NC 32**

**NC 94**

POT Sta. 29+27.77

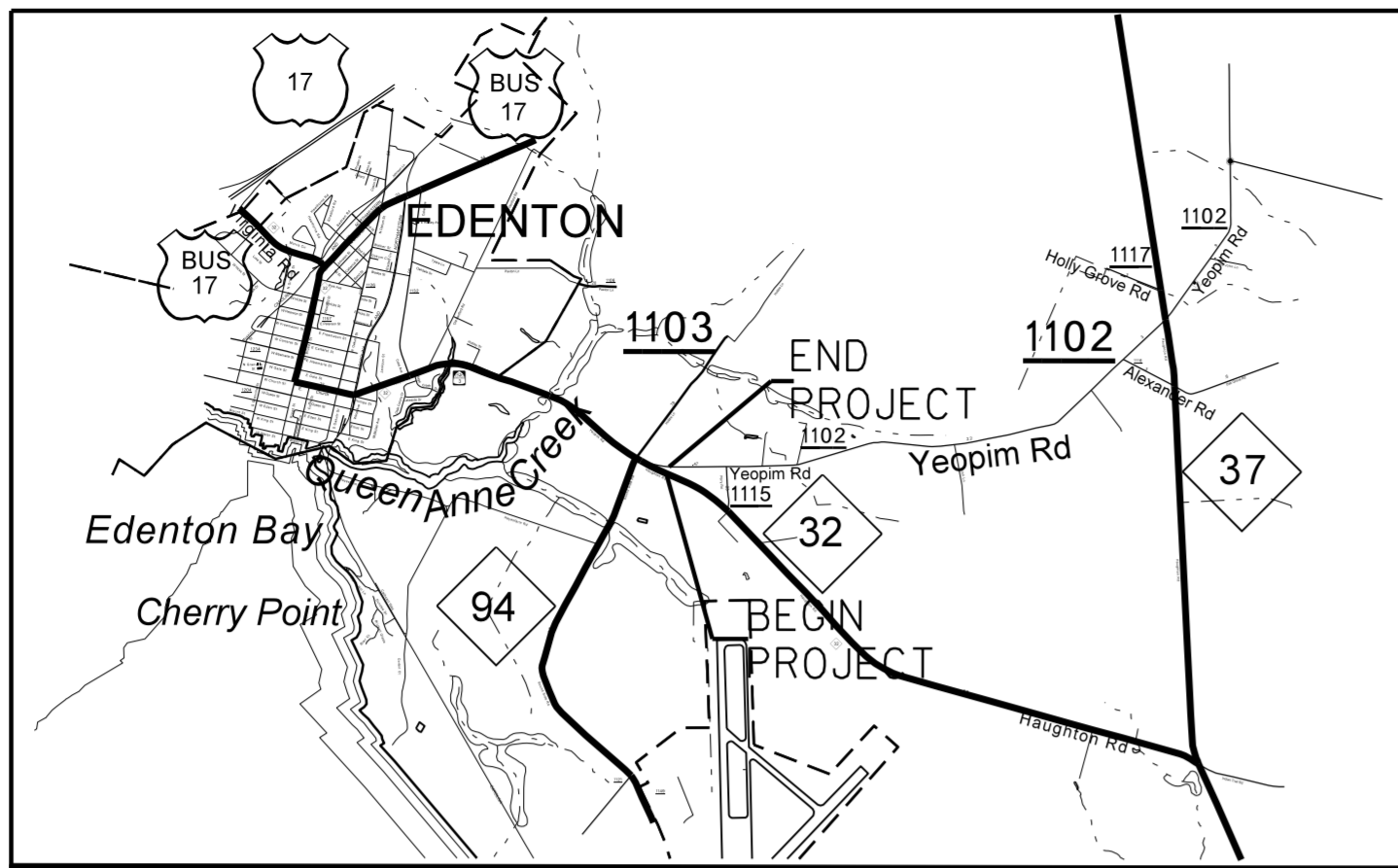
F- PT Sta. 27+13.30

N 17° 41' 07" W  
214.21'

REVISIONS

03-SEP-2013 14:23  
D:\Current Projects\1102\SR 1102\Chowen\TBD.d01-ddc.sh6.dgn  
sh6

**TIP PROJECT: W5210C**



VICINITY MAP

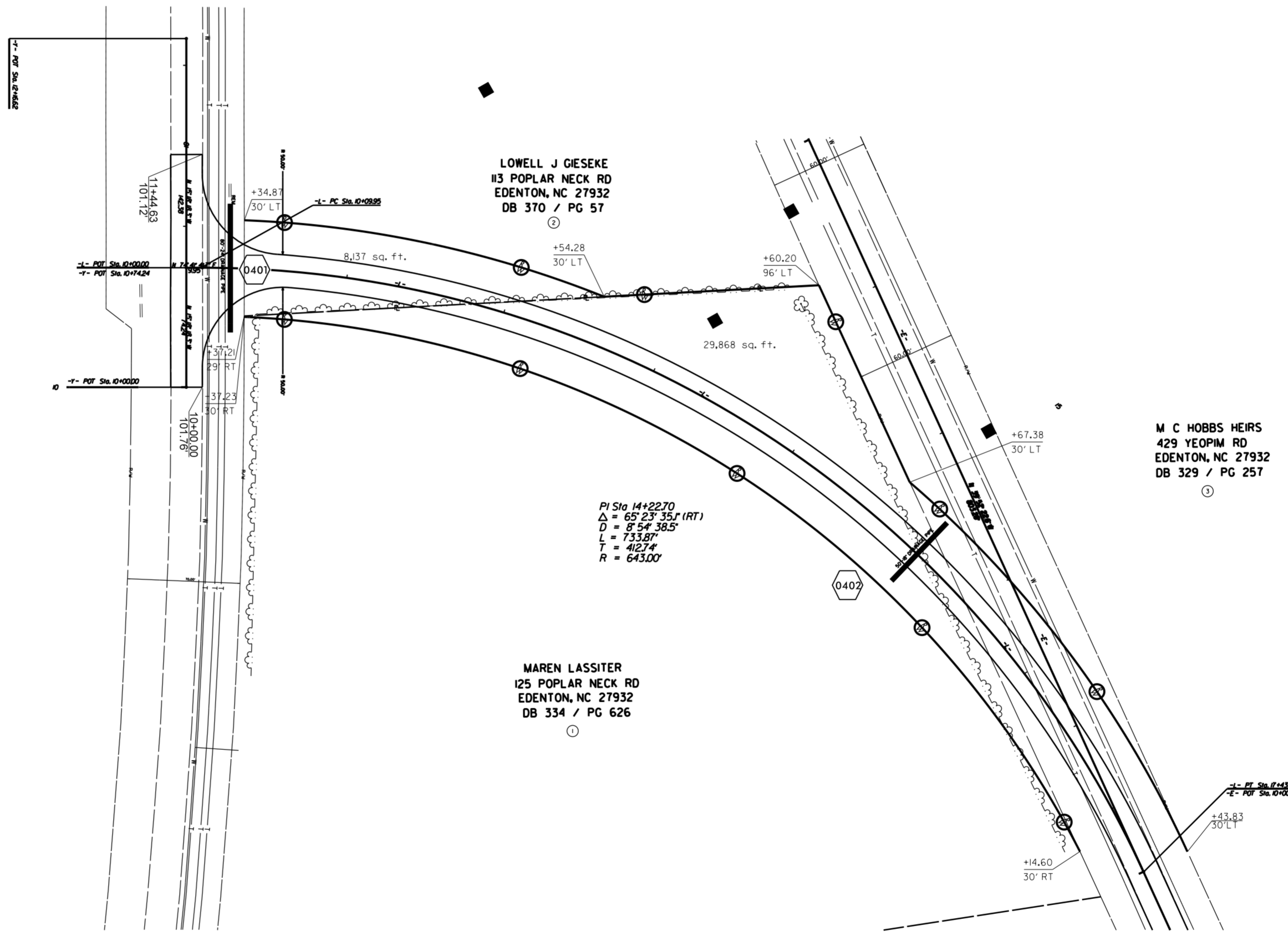
**Erosion Control Schedule**

- 1) Install erosion control measures according to plans at all outlets and at other discharge points after clearing but before grubbing.
- 2) Begin grading of roadway ditches. Place erosion control measures along roadway ditches as grading progresses and conditions allow.
- 3) Seed and mulch all disturbed areas as soon as any phase of grading is completed. Exposed areas can not lay idle for more than 21 calendar days without being provided adequate groundcover..
- 4) Clean out and/or rework all temporary erosion control measures after any significant rainfall event (or as otherwise needed). These measures should be maintained until a permanent vegetative cover is established.

**Pipe Installation Schedule**

1. Install erosion control devices per plans.
2. Remove material and existing pipe while limiting, as much as possible material and sediment from entering the stream and/or escaping from the project.
3. Prepare pipe foundation while taking care to limit material and sediment from entering the stream and/or escaping from the project. Bury the pipe in accordance with the permit. If needed, bedding material will be clean stone (especially in Trout and HQW waters).
4. Place new pipe and compact fill.
5. Install slope protection on outlet and inlet ends of pipe according to the permit drawing. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
6. Establish permanent vegetation as soon as possible.

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL



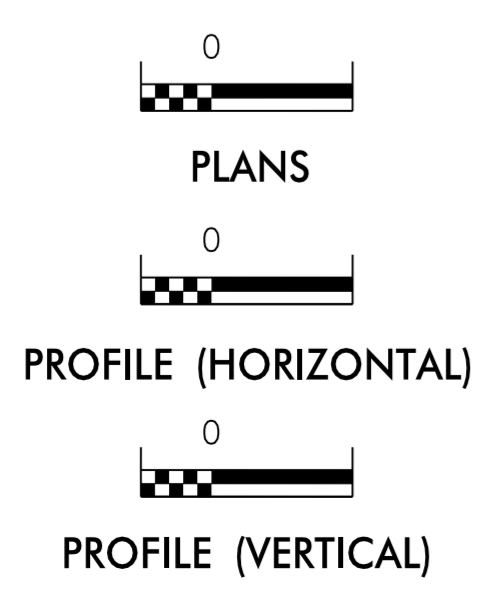
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45331.3.3	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSO
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	—▲—▲—▲—▲—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▩
	Wattle/Coir Fiber Wattle	—▲—▲—▲—▲—
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	—▲—▲—▲—▲—
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

**THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.**

**GRAPHIC SCALE**



**LEVEL III-A:  
DESIGNER OF  
EROSION AND  
SEDIMENT CONTROL  
PLANS**

**W. G. COOKE  
CERTIFICATION  
NUMBER: 259**

*THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
WITH THE REGULATIONS SET FORTH BY THE  
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.*

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

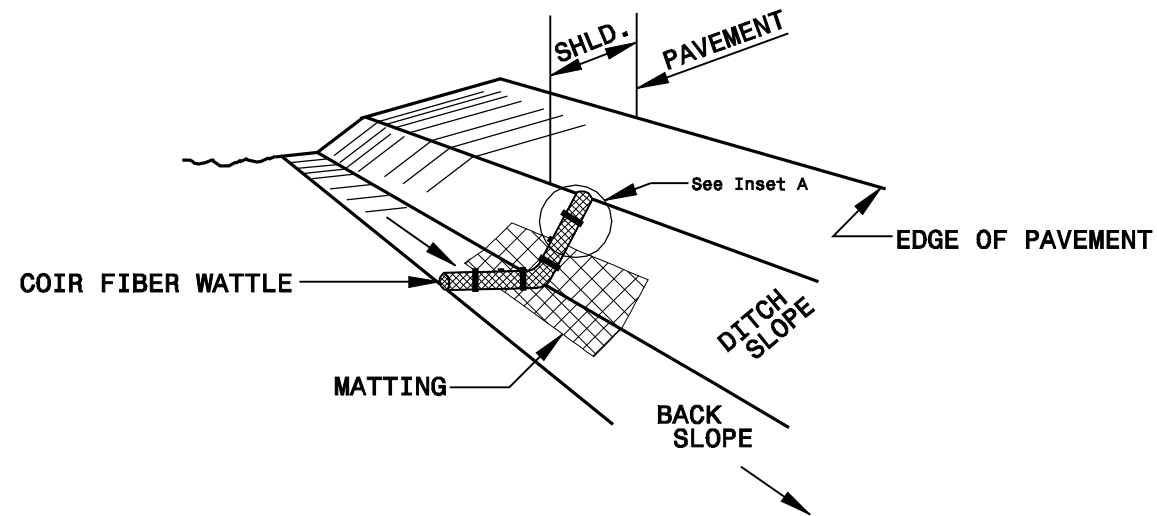
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

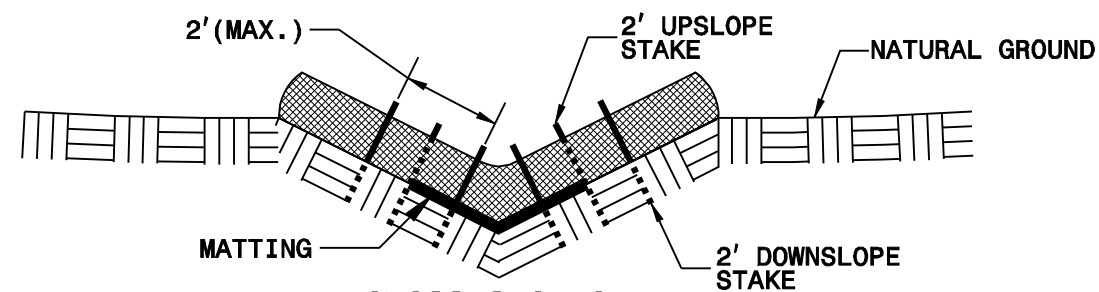
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PROJECT REFERENCE NO. X-XXXX		SHEET NO. EC-26	
RDW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

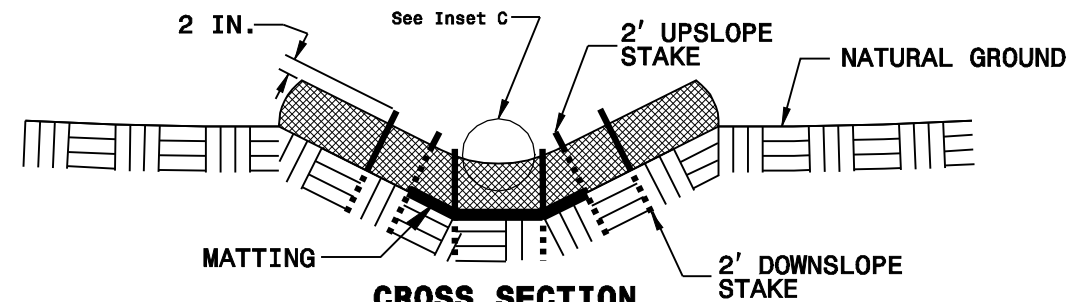
# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**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.

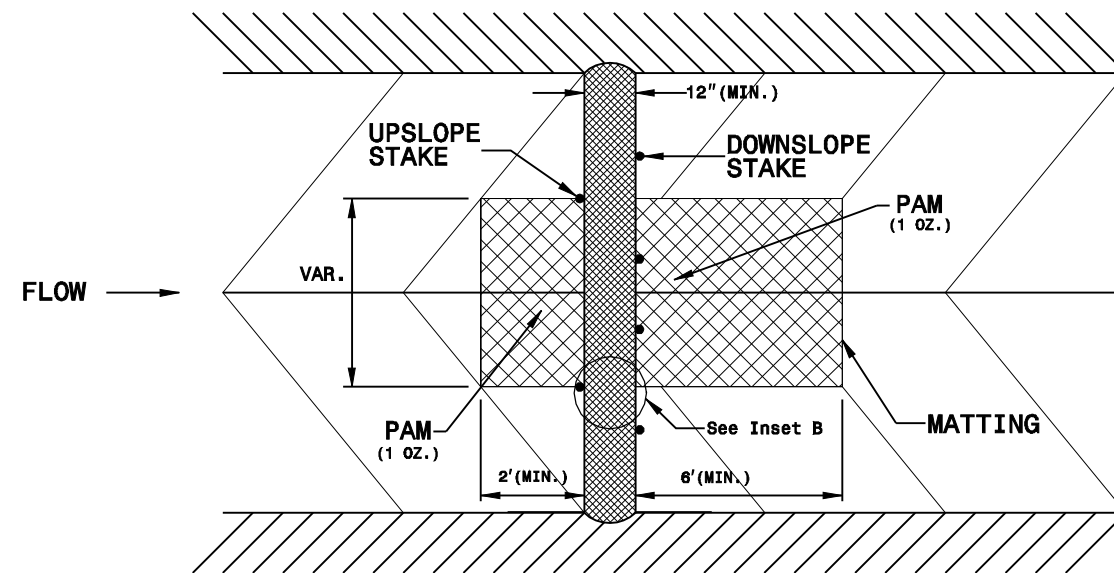
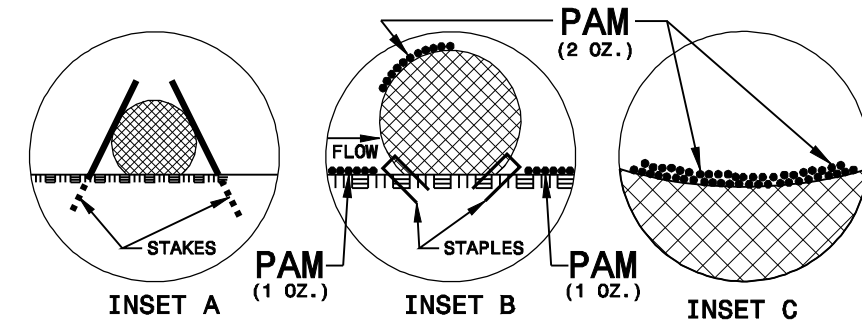
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



**TOP VIEW**

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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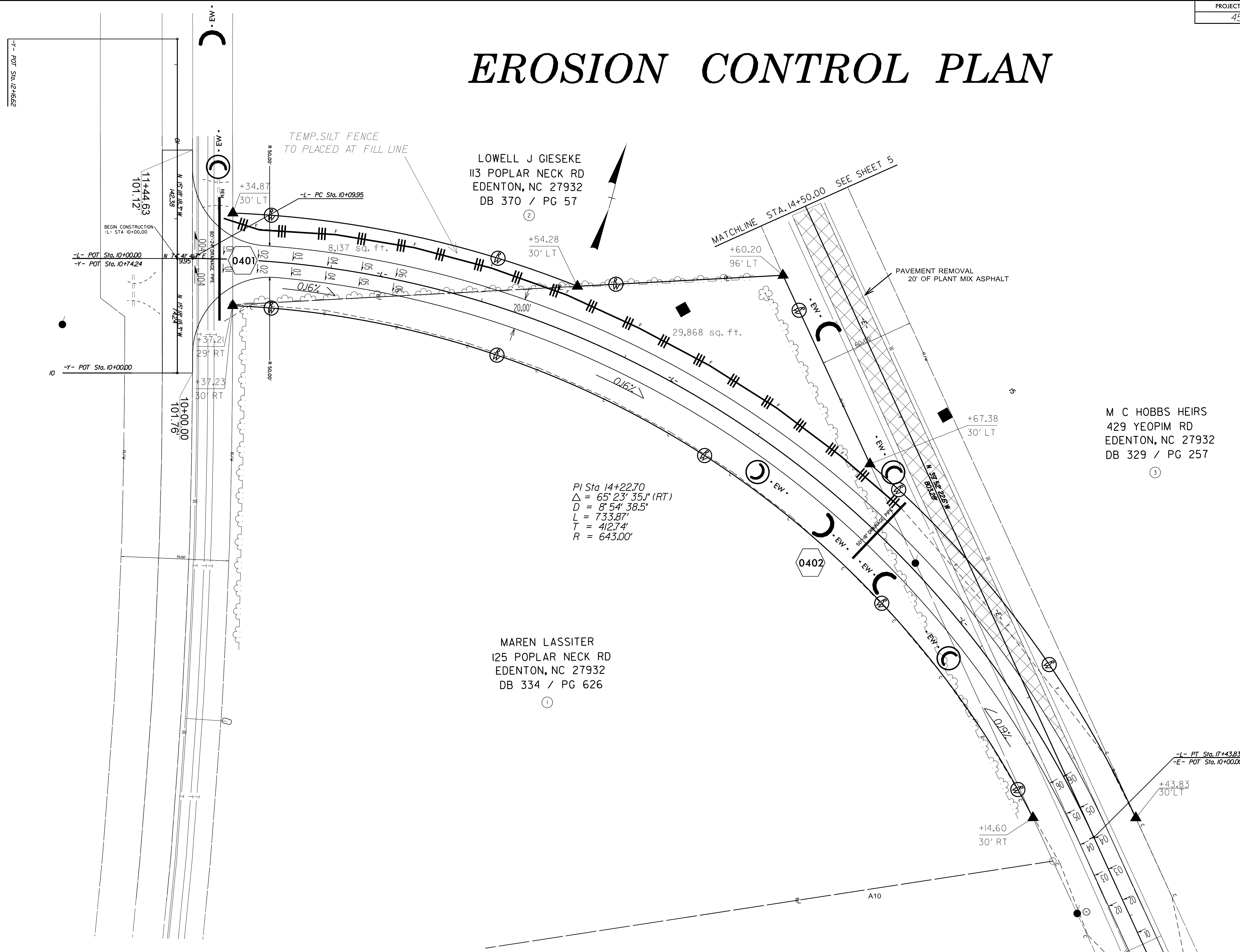


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## ***SOIL STABILIZATION TIMEFRAMES***

<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.

# EROSION CONTROL PLAN



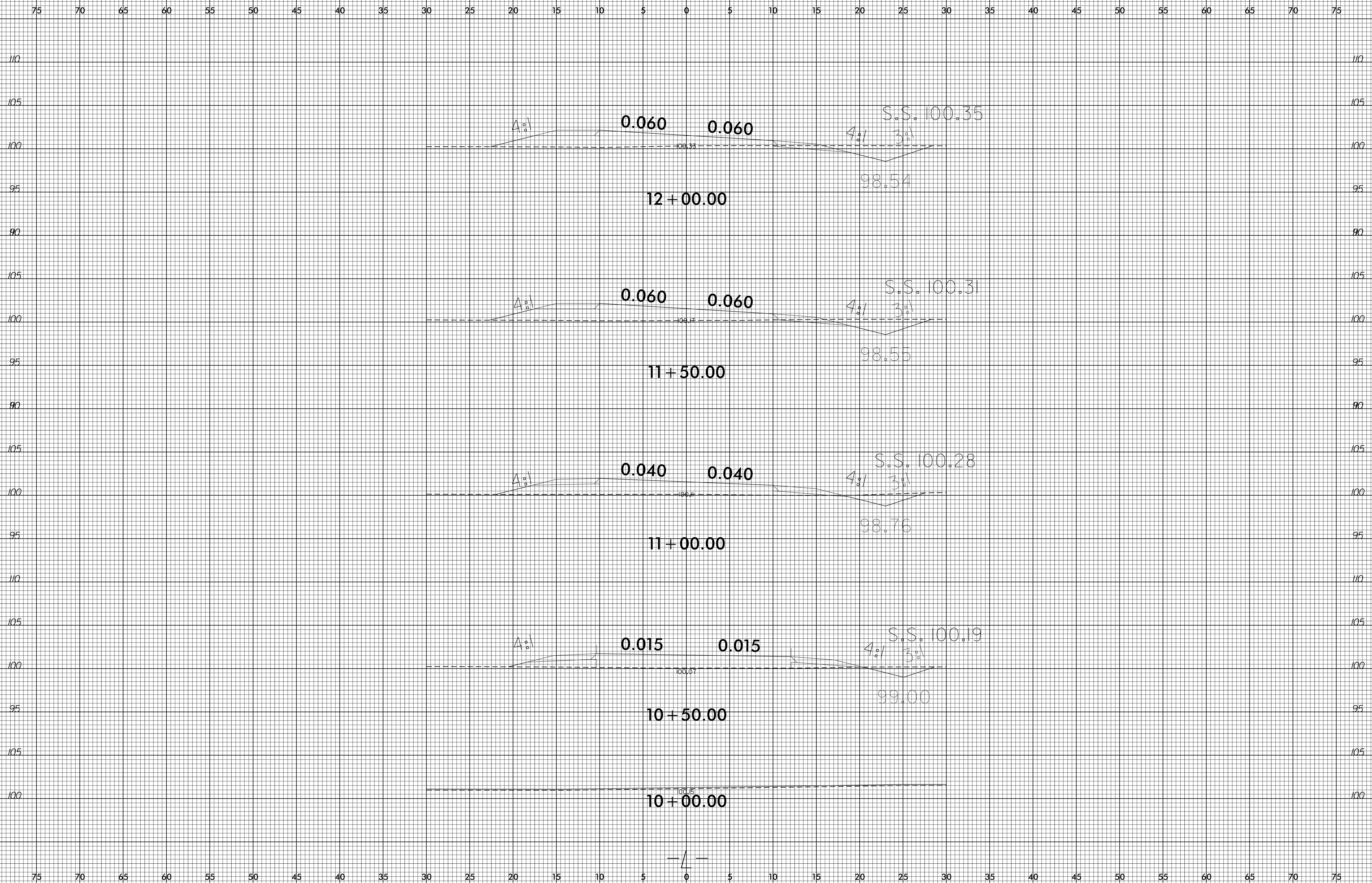
Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing, breaking of existing pavement and removal of existing pavement will be paid for at the lump sum price for "Grading".

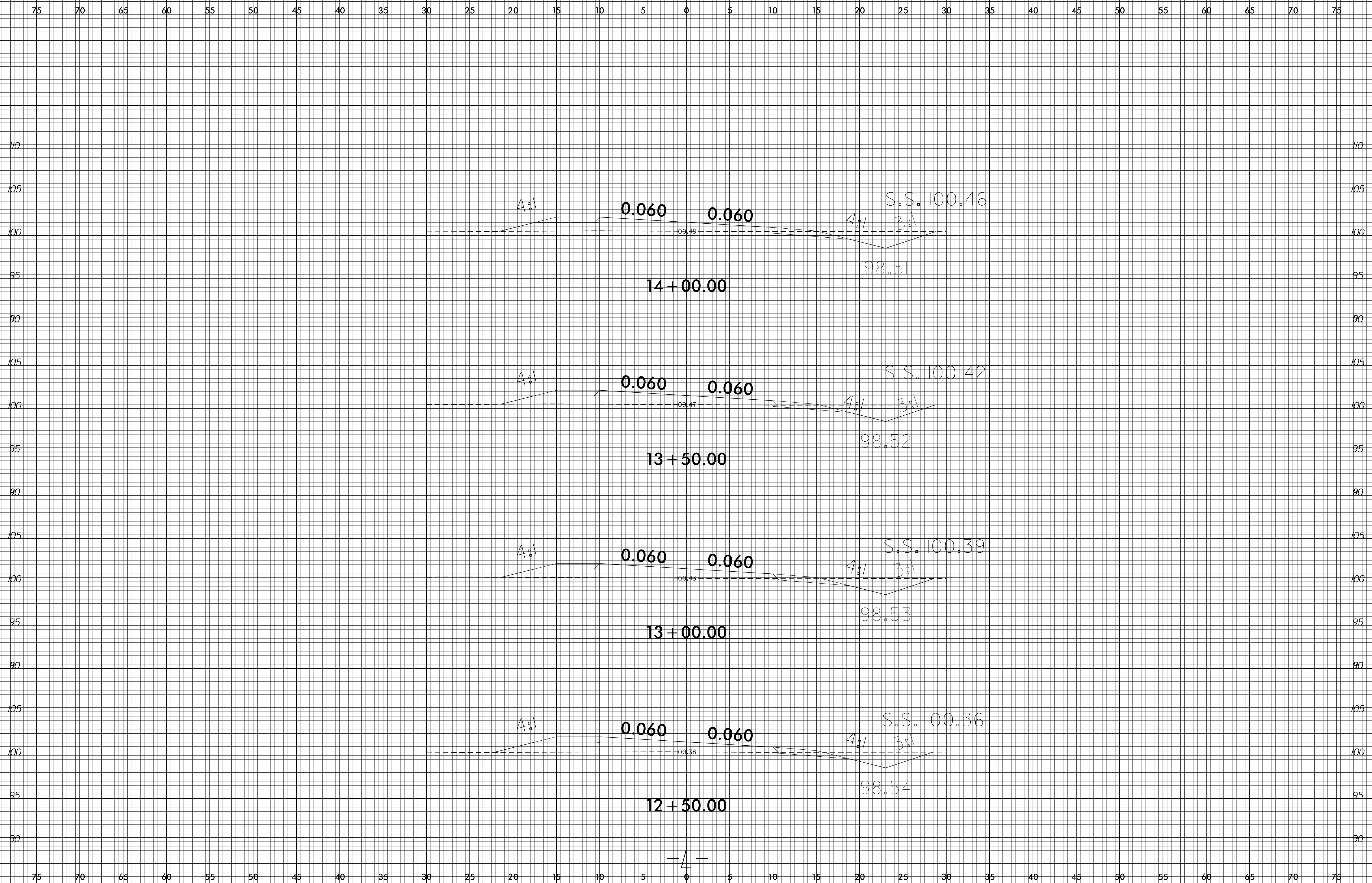
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**CROSS-SECTION SUMMARY**

PROJ. REFERENCE NO.	SHEET NO.
45331.2.3	X-1A

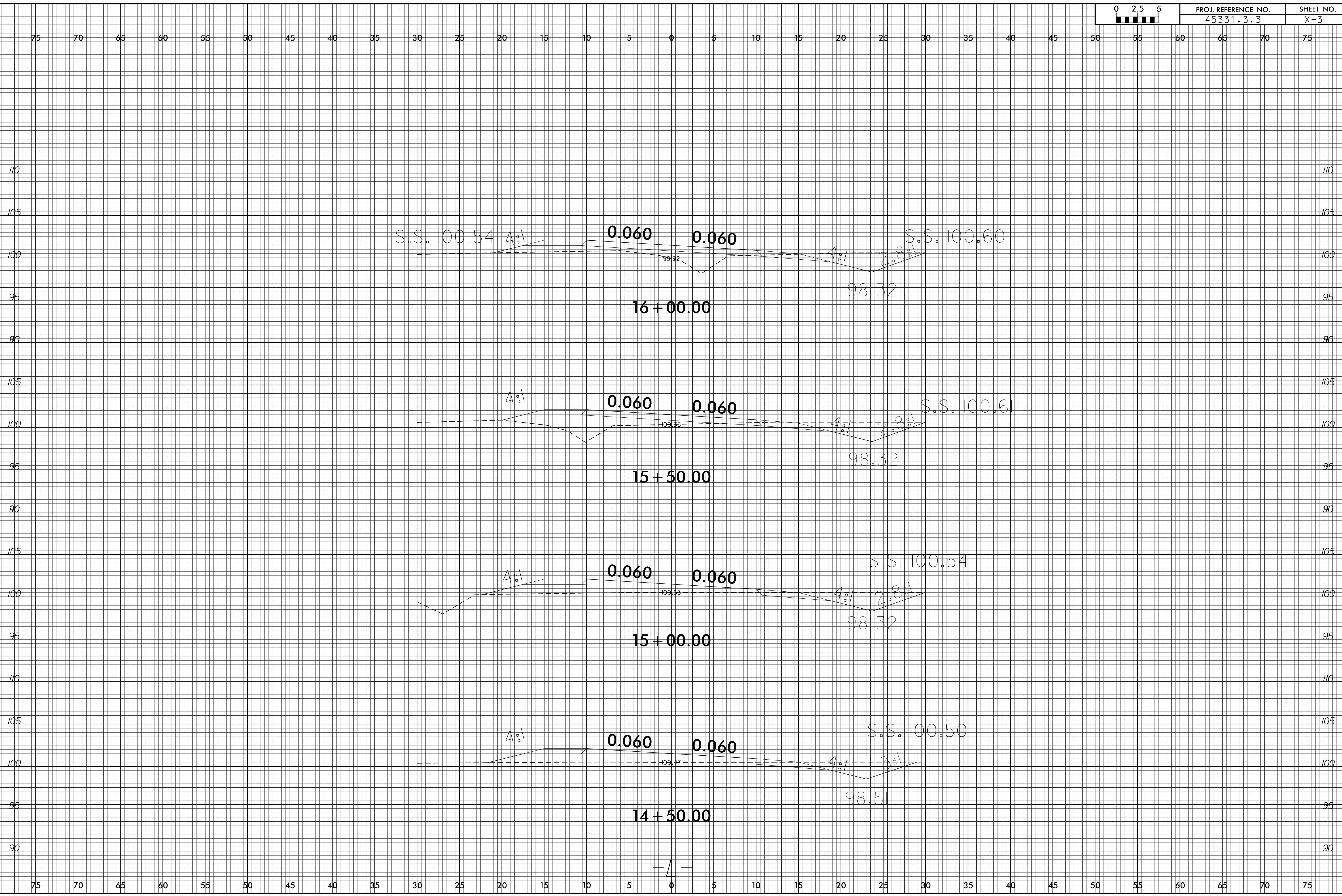
Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)
10+50.00	0	0
11+00.00	11	21
11+50.00	18	24
12+00.00	25	25
12+50.00	26	23
13+00.00	27	19
13+50.00	28	17
14+00.00	29	17
14+50.00	31	18
15+00.00	35	19
15+50.00	40	35
16+00.00	39	45
16+50.00	35	33
17+00.00	37	28
17+50.00	31	28
18+00.00	25	20
18+50.00	14	10







8/23/99

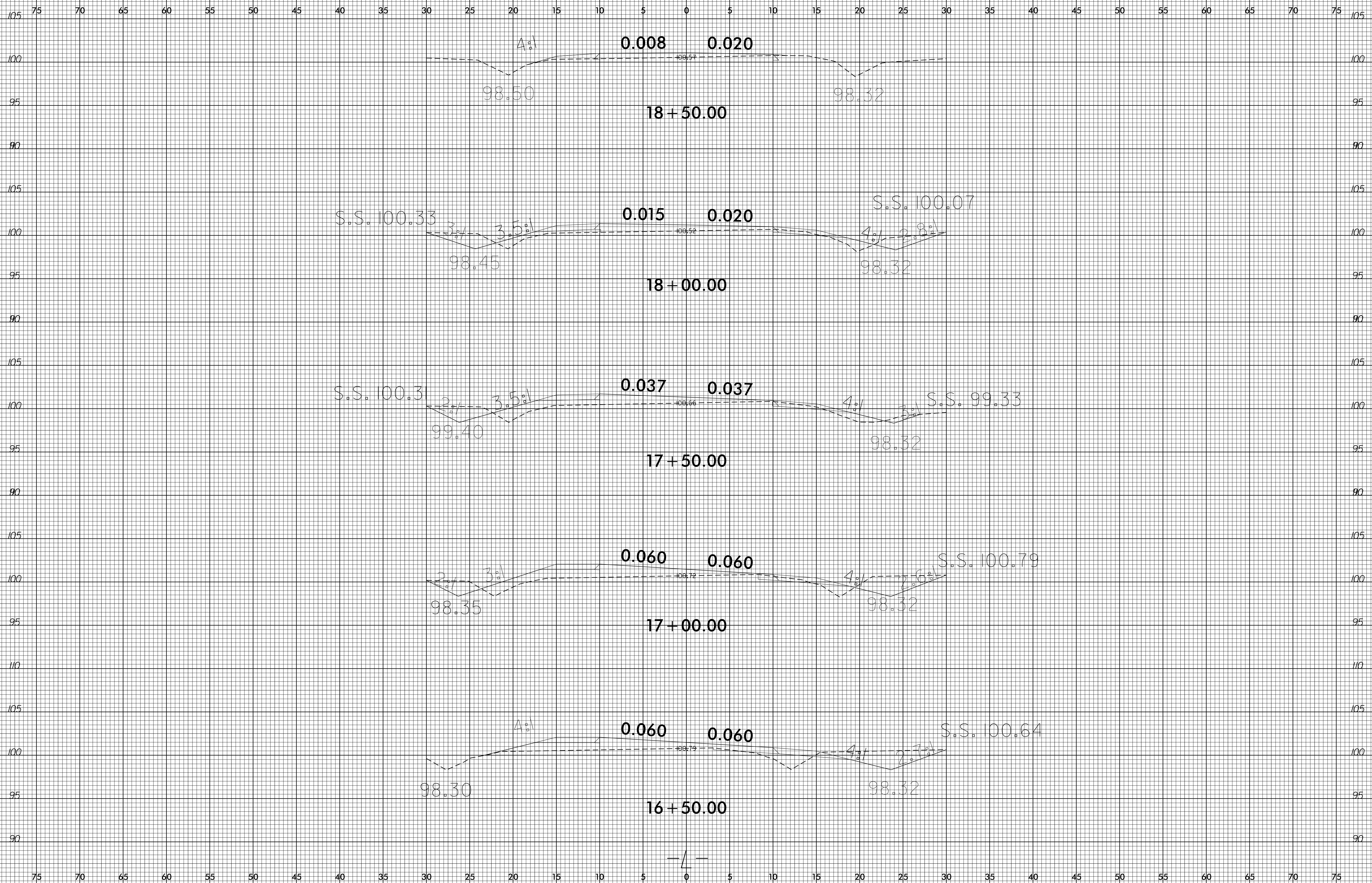


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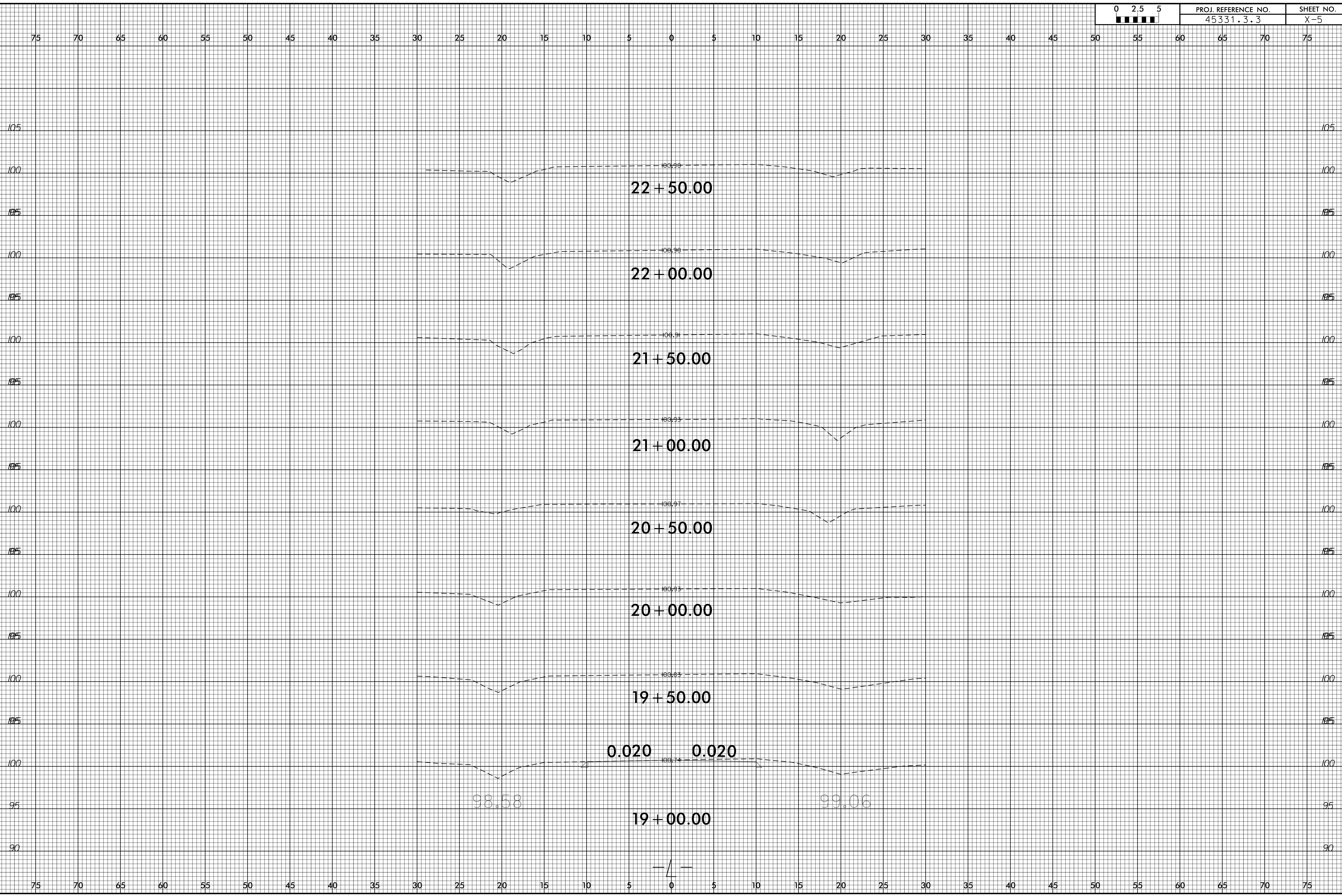
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

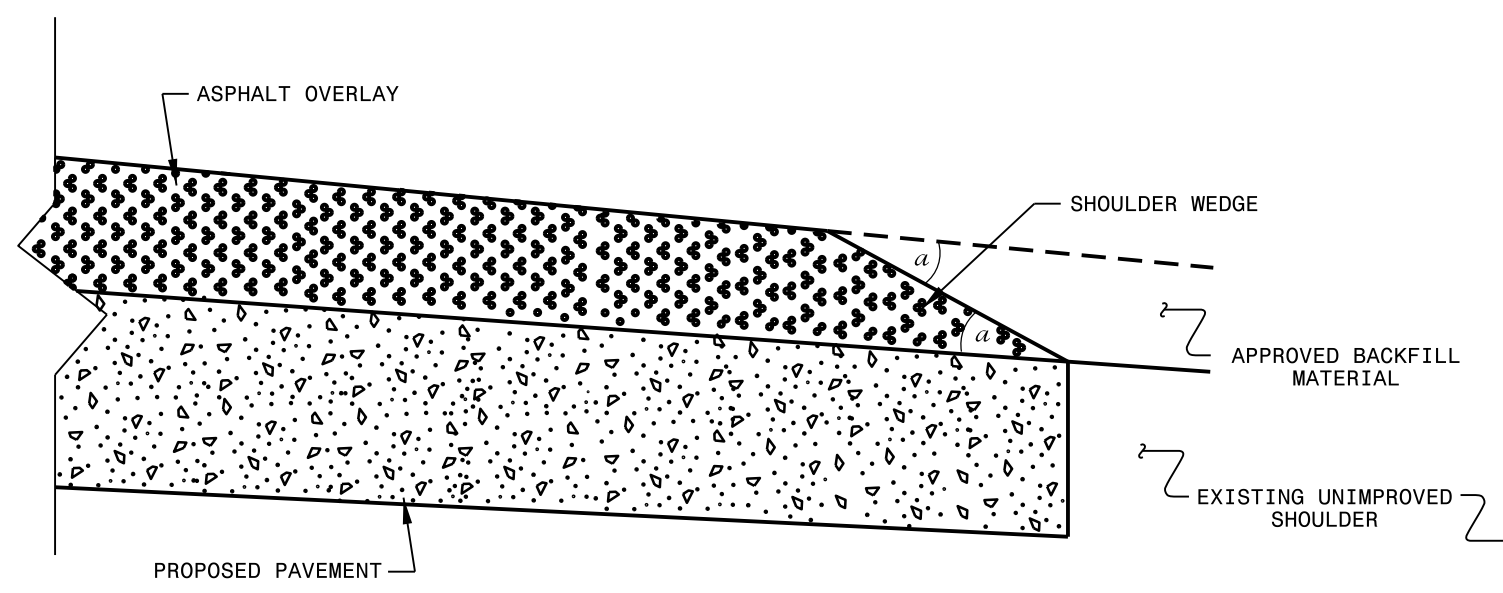
8/23/99



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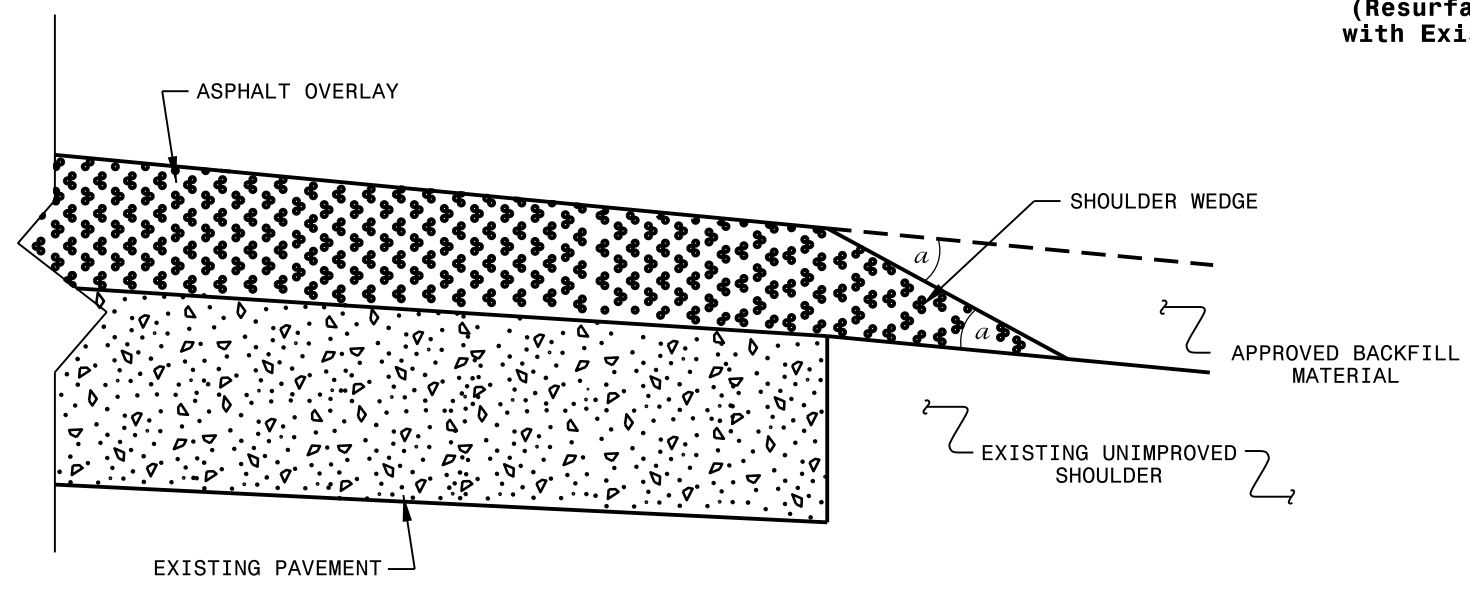


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### SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder > 2 ft.)



### SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.

*a* - SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn	

SYSTEMS DESIGN CONSULTANTS  
 11000 RIVERCHASE DRIVE  
 SUITE 100  
 DALLAS, TEXAS 75244  
 TEL: 972.382.2200  
 FAX: 972.382.2201  
 WWW.SDCON.COM