

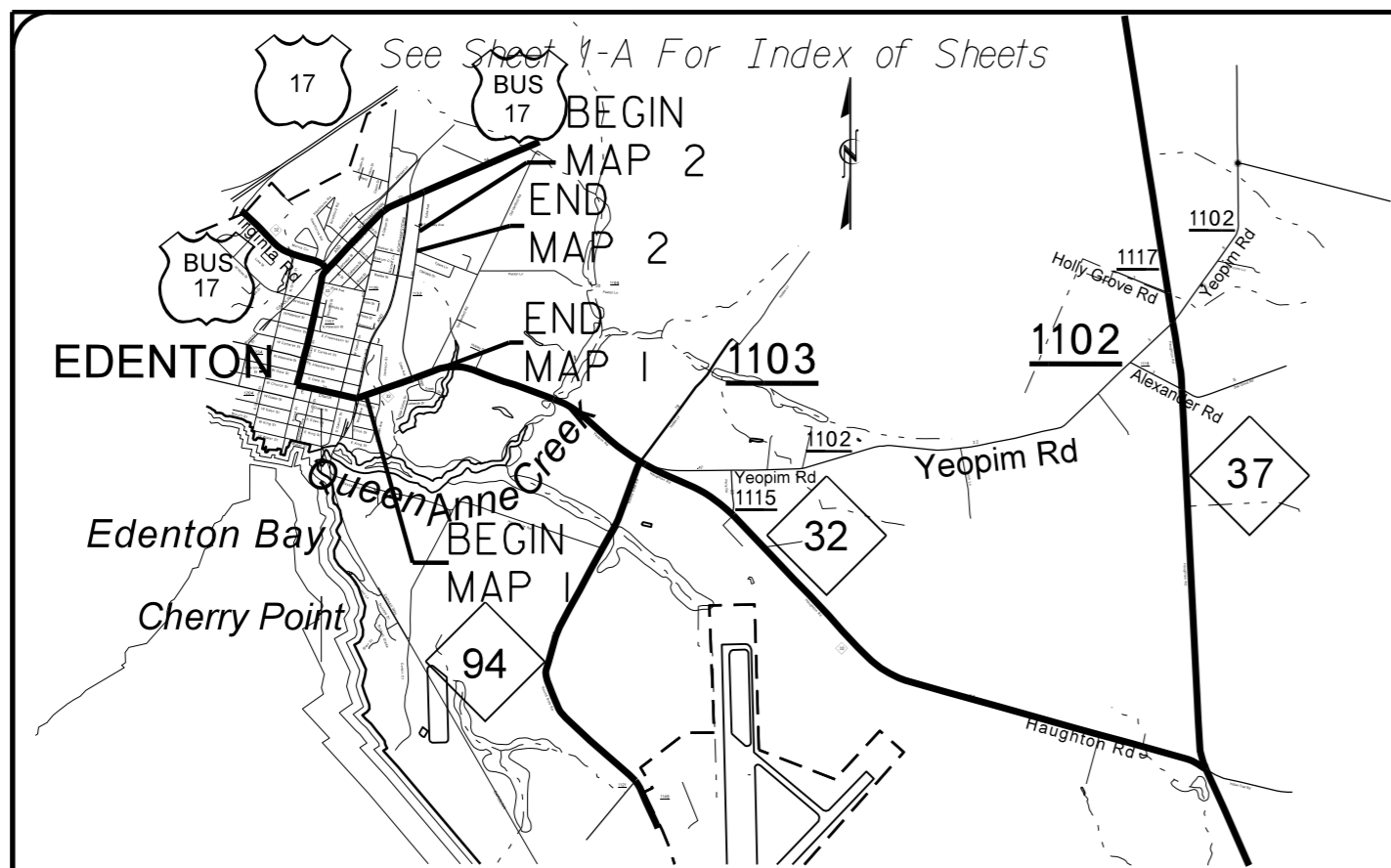
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	42347	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42347	3601.3.06	PE, CONST	
3601.3.08	STP-0005(424)	CONST	
	3601.3.08	CONST	

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

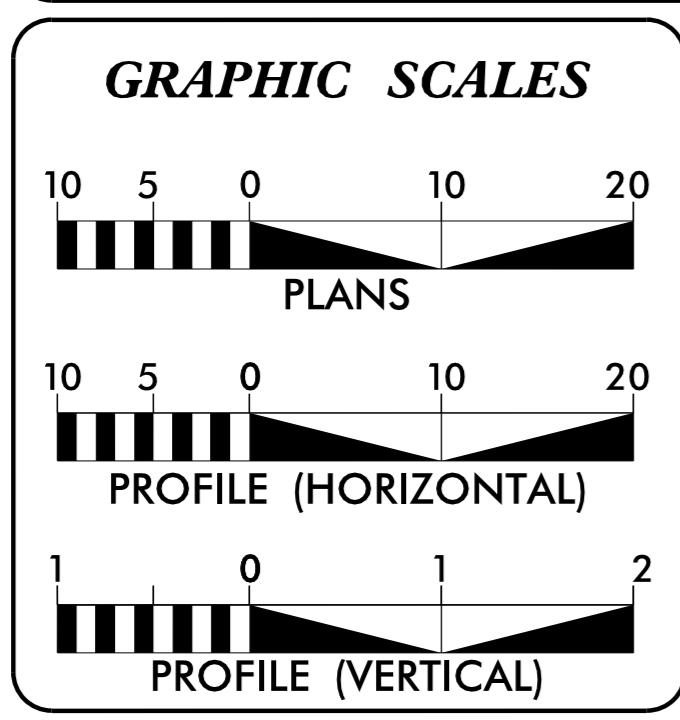
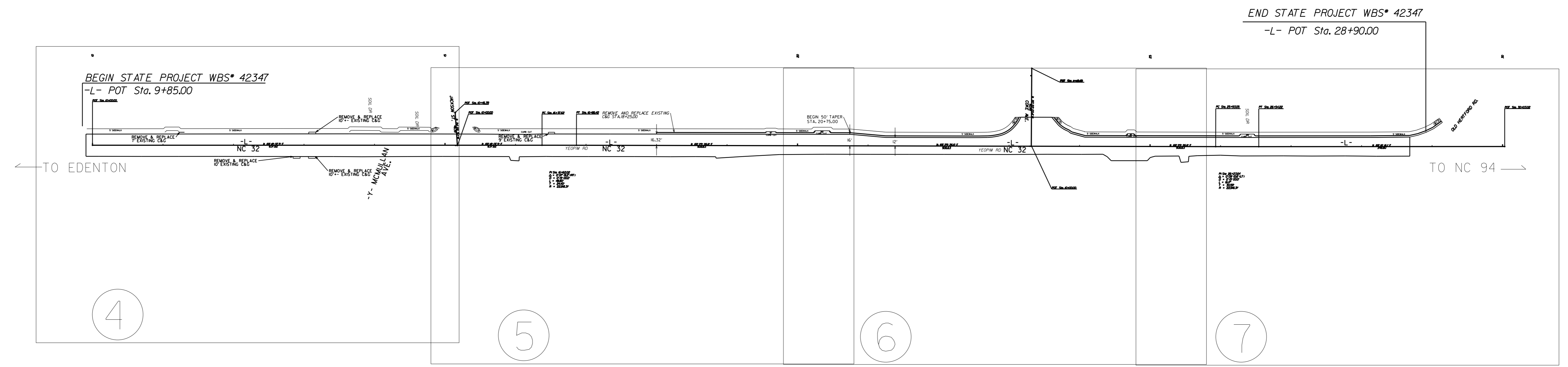
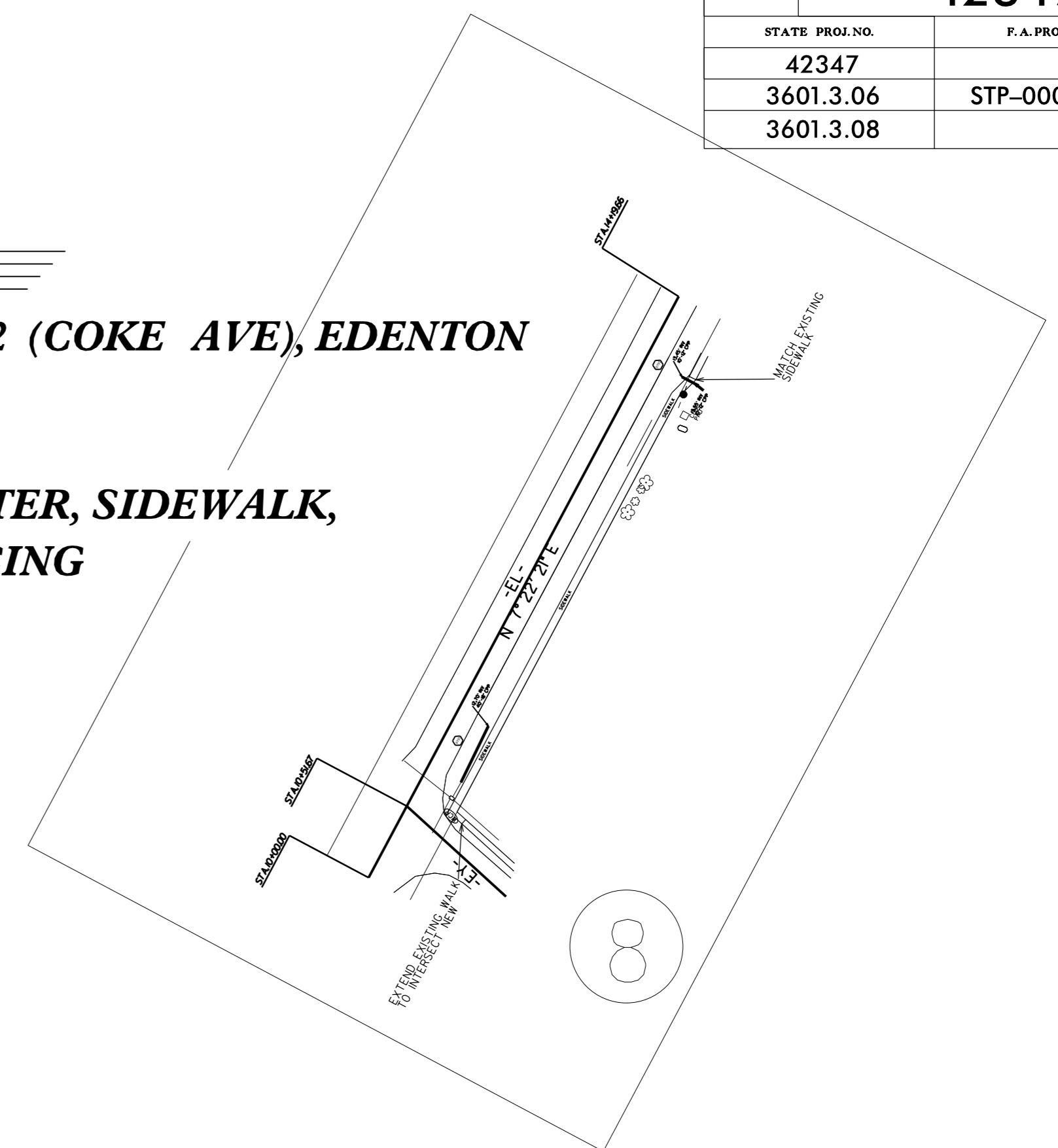
# CHOWAN

LOCATION: NC 32 (YEOPIM RD.) & SR 1132 (COKE AVE), EDENTON

TYPE OF WORK: DRAINAGE, CURB & GUTTER, SIDEWALK,  
MILLING AND RESURFACING



VICINITY MAP



**DESIGN DATA**

V = 40 MPH

**PROJECT LENGTH**

STATE PROJECT WBS# 42347 = 0.43 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
113 AIRPORT DR., EDENTON NC, 27930

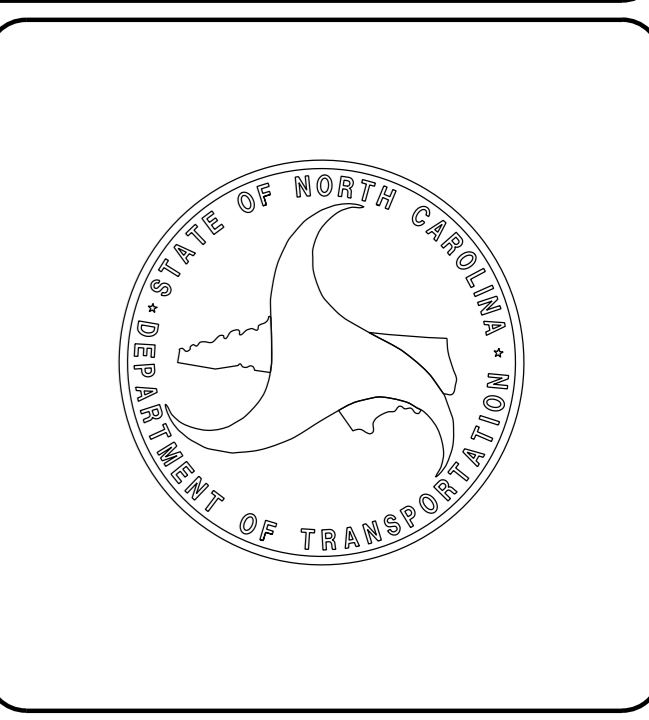
2012 STANDARD SPECIFICATIONS

**LETTING DATE:**  
JUNE 4, 2014

**BARRY HOBBS, P. E.**  
DIVISION PROJECT MANAGER

**CHRIS SLACHTA**  
DIVISION PROPOSALS ENGINEER

**S. P. FENWICK, P.L.S.**  
DIVISION DESIGN ENGINEER



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 AT DICAD265783  
 stfenwick

42347

WBS#:

CONTRACT: DA00157

8/17/99  
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 Fenwick AT D:\AD265783

SHEET NUMBER	SHEET	GENERAL NOTES:	2012 SPECIFICATIONS	2012 ROADWAY ENGLISH STANDARD DRAWINGS
1	TITLE SHEET	GRADING AND SURFACING OR RESURFACING AND WIDENING:	EFFECTIVE: 01-17-12 REVISED: 11/01/11	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:
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS	PROPOSED	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.	STD.NO. TITLE
1-B	CONVENTIONAL SYMBOLS	CLEARING:	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.	DIVISION 2 - EARTHWORK
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS	SHOULDER CONSTRUCTION:	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.	200.02 Method of Clearing - Method II 225.02 Guide for Grading Subgrade - Secondary and Local
2-A	PIPE DETAIL (60"X 42")	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.	DIVISION 3 - PIPE CULVERTS
3	SUMMARY OF QUANTITIES	DRIVEWAYS:	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.	300.01 Method of Pipe Installation
3A	SUMMARY OF DRAINAGE QUANTITIES	STREET TURNOUT:	STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.	DIVISION 6 - ASPHALT BASES AND PAVEMENTS
4 THRU 8	PLAN SHEET	SUBSURFACE PLANS:	NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.	654.01 Pavement Repairs
EC-1 THRU EC-7	EROSION CONTROL PLANS	RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.	DIVISION 8 - INCIDENTALS
X-1A	CROSS-SECTIONS SUMMARY	CURB RAMPS	CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.	838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 840.00 Concrete Base Pad for Drainage Structures 840.01 Brick Catch Basin - 12" thru 54" Pipe 840.02 Concrete Catch Basin - 12" thru 54" Pipe 840.03 Frame, Grates and Hood - for Use on Standard Catch Basin 840.31 Concrete Junction Box - 12" thru 66" Pipe 840.51 Brick Manhole - 12" thru 36" Pipe 840.52 Precast Manhole - 4', 5' and 6' Diameter 840.53 Precast Manhole with Masonry Base - 12" thru 42" Pipe 846.01 Concrete Curb, Gutter and Curb & Gutter 848.01 Concrete Sidewalk 848.02 Driveway Turnout - Radius Type 848.04 Street Turnout 848.05 Curb Ramp - Proposed Curb & Gutter 848.06 Curb Ramp - Existing Curb & Gutter 876.02 Guide for Rip Rap at Pipe Outlets 876.04 Drainage Ditches with Class 'B' Rip Rap
X-1 THRU X-15	CROSS-SECTIONS			

12/05/11

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# 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	--- NLB
Proposed Wetland Boundary	--- NLB
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	○
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	○
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:

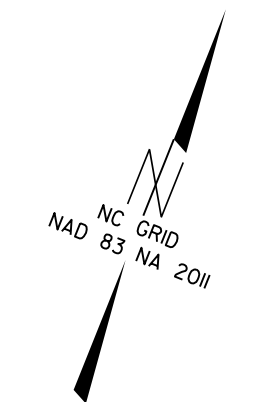
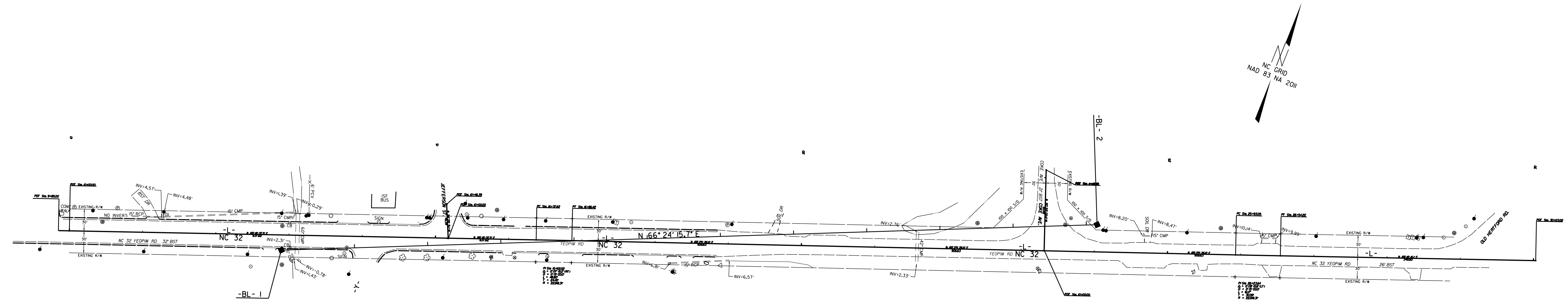
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

### 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.	⊕ UST
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	-L- STATION	OFFSET
1	5/8" REBAR WITH STANDARD ALUM. CAP	849398.4890	2709002.5890	6.22	12+89.91	20.74 RT
2	5/8" REBAR WITH STANDARD ALUM. CAP	849844.6540	2710024.0320	8.17	24+03.05	37.19 LT



**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 849398.4890(+1) EASTING: 2709002.5890(+1) ELEVATION: 6.22(+1) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999977465 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-1" TO "L- STATION" IS ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

**BENCHMARK DATA**  
 \*\*\*\*\*  
 BM 1 ELEVATION = 6.22'  
 N 849398 E 2709003  
 -L- STATION 12+90, 20.74' RT  
 5/8" REBAR W/CAP BURIED +/- 0.4'  
 \*\*\*\*\*

**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.

SCALE:  
 1" = 80'  
 (FULL SIZE)

REVISIONS

8/17/99

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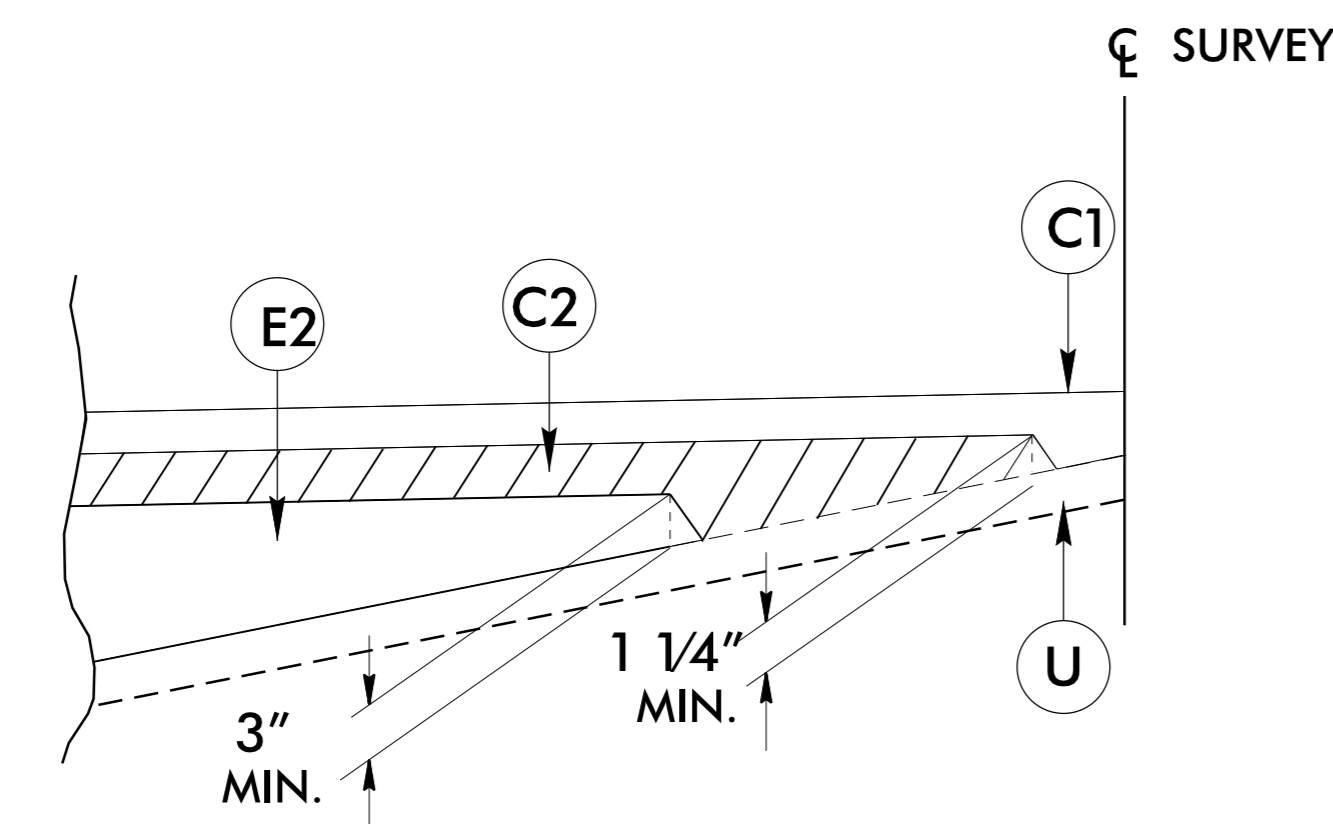
## PAVEMENT SCHEDULE

C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF 9.5A, 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 TO EXCEED 1 1/2" IN DEPTH.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B 25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH.
J	PROP. 6" AGGREGATE BASE COURSE.
R1	2'-6" CONCRETE CURB AND GUTTER.
S	4" CONCRETE SIDEWALK.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	MILLING BITUMINOUS PAVEMENT. 1 1/2" DEPTH.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

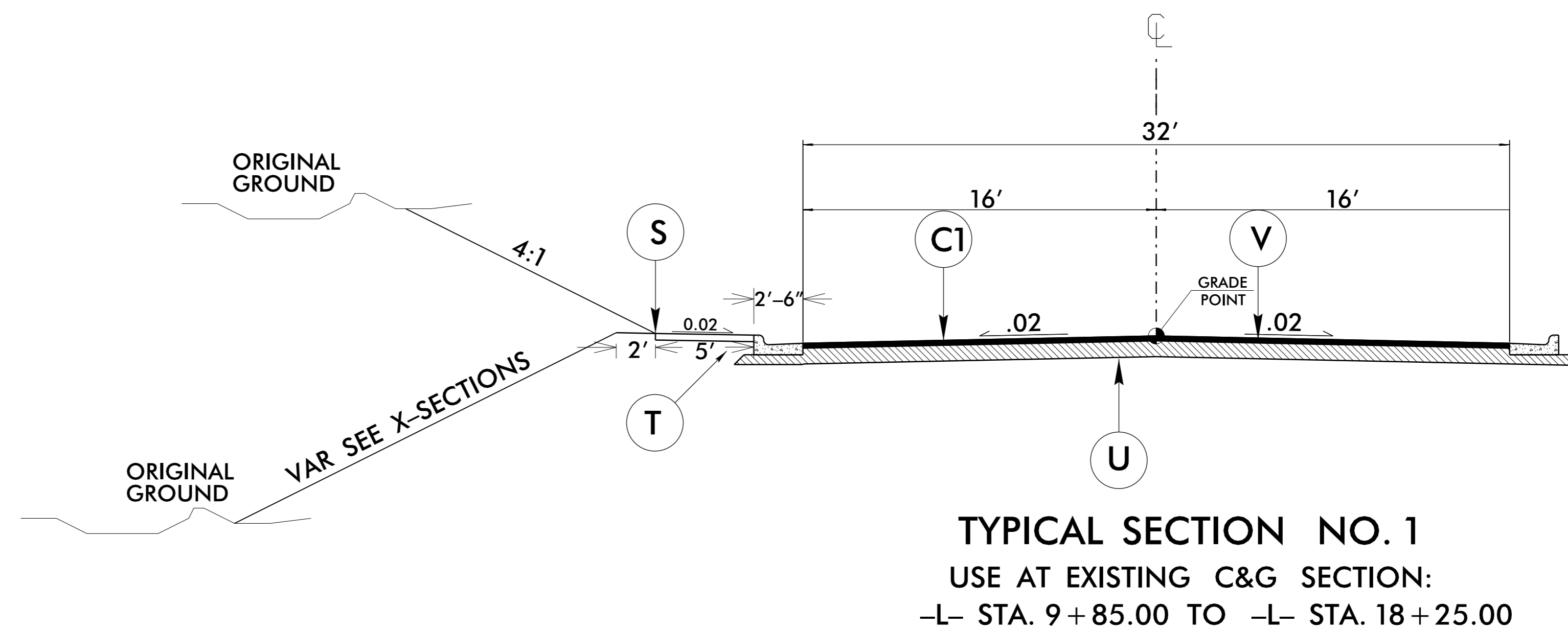
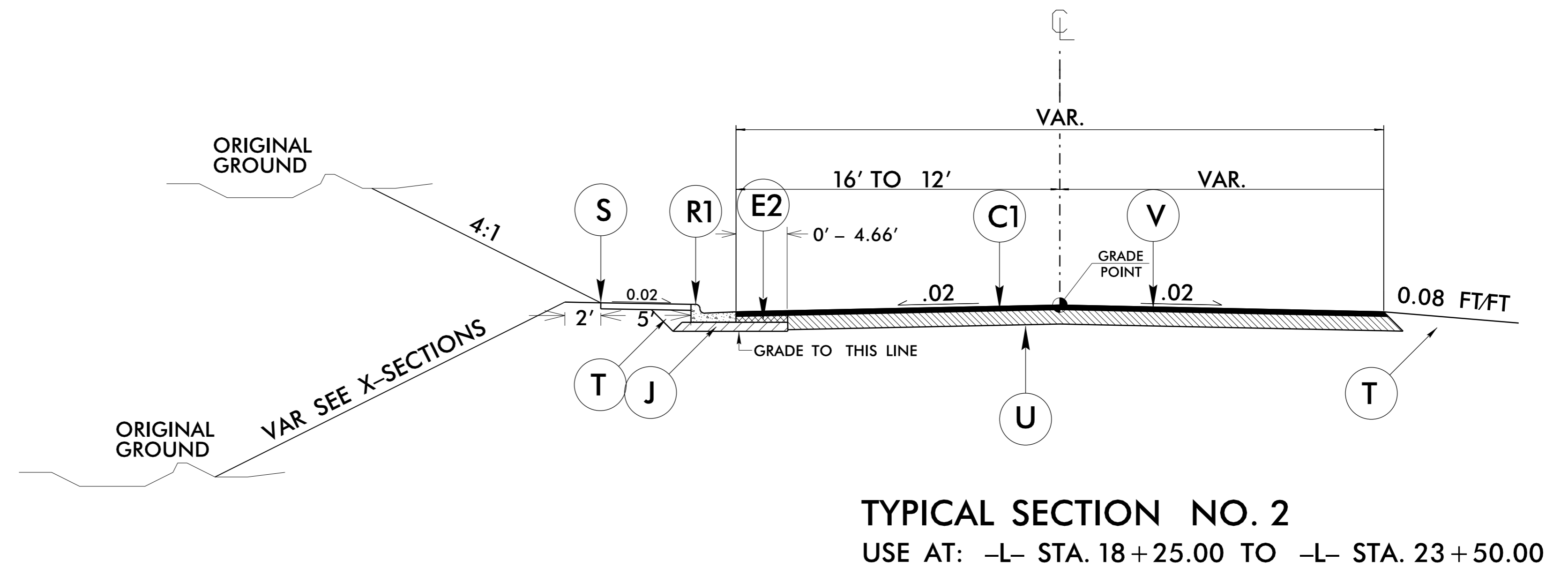
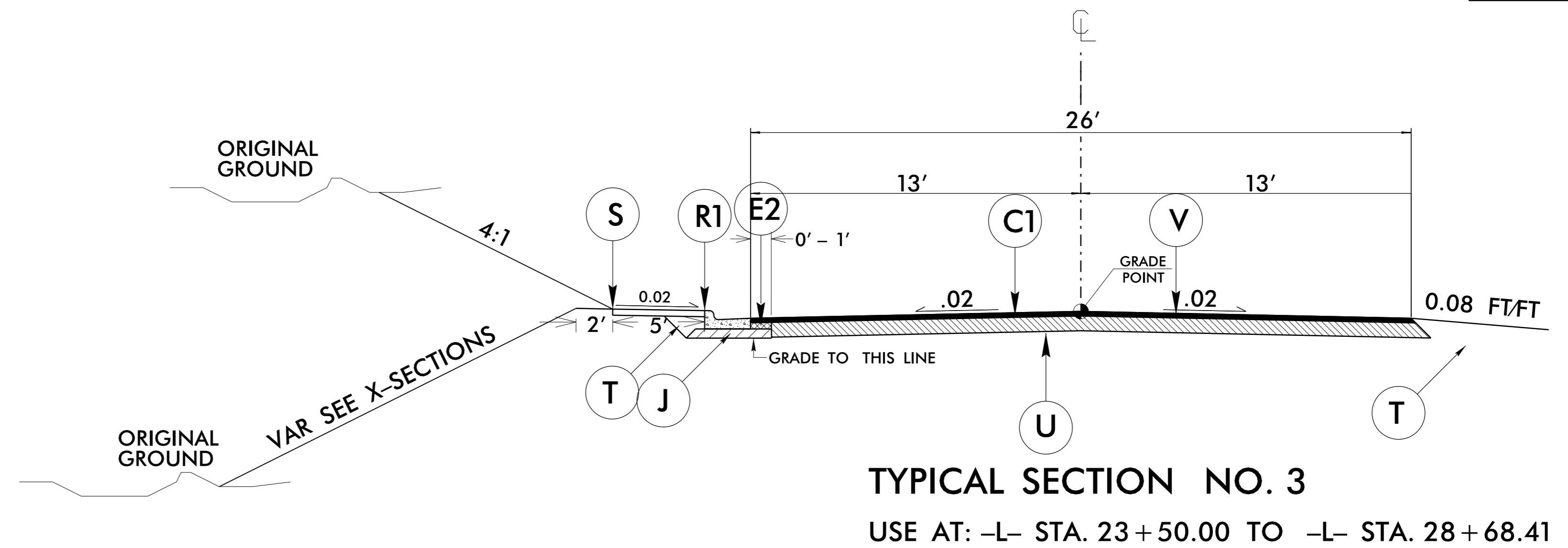
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

NOTE:  
SEE PLAN SHEETS FOR TRANSITIONS

REMOVE & REPLACE FAILING C&G  
IN LOCATIONS AS DIRECTED BY  
ENGINEER



Detail Showing Method of Wedging



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PROJECT NO.	SHEET NO.
42347, 3601.3.06 & 3601.3.08	3

### SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	MOBILIZATION	GRADING	UNDERCUT EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	15" RC PIPE CULVERTS, CLASS III	GENERIC PIPE ITEM 36" CAA PIPE CULVERT	GENERIC PIPE ITEM 60"x46" CAA PIE & HEAD WALL	AGGREGATE BASE COURSE	1 1/2" MILLING	BASE COURSE, B25.0B	SURFACE COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	ASPHALT PLANT MIX, PAVEMENT REPAIR	MASONRY DRAINAGE STRUCTURES	FRAME WITH GRATE & HOOD, STD 840.03, TYPE E	FRAME WITH GRATE & HOOD, STD 840.03, TYPE F	2'-6" CURB & GUTTER						
NO		NO			NO					MI	FT	LS	LS	CY	TON	LF	LF	LF	TONS	SY	TONS	TONS	TONS	TON	EA	EA	EA	LF						
42347	Chowan	1	NC 32	FROM R/R CROSSING TO OLD HERTFORD RD.	1	2	2WU	NO	NO	0.37	26	0.75	0.86	250	150	490.00	60.00	60.00	116	6,036	18	500	34	63	5	1.00	2.00							
TOTAL FOR MAP NO. 1										0.37		0.75	0.86	250.00	150	490.00	60.00	60.00	116	6,036	18	500	34	63	5	1.00	2.00							
TOTAL FOR PROJ NO. 42347										0.37		0.75	0.86	250.00	150	490.00	60.00	60.00	116	6,036	18	500	34	63	5	1.00	2.00							
3601.3.06	Chowan	1	NC32	FROM R/R CROSSING TO OLD HERTFORD RD.	1	2	2WU	NO	NO	0.37	14	0.21																1,200.00						
TOTAL FOR MAP NO. 1										0.37		0.21																1,200.00						
TOTAL FOR PROJ NO. 3601.3.06										0.37		0.21																		1,200.00				
3601.3.08	Chowan	2	SR 1132	0.1 MILES FROM NC 32	SW	2	2WU	NO	NO	0.06	20	0.04	0.14			10.00																		
TOTAL FOR MAP NO. 2										0.06		0.04	0.14			10.00																		
TOTAL FOR PROJ NO. 3601.3.08										0.06		0.04	0.14			10.00																		
GRAND TOTAL										0.43		1	1	250	150.00	500	60.00	60.00	116.00	6,036.00	18.00	500	34	63	5	1	2	1,200						

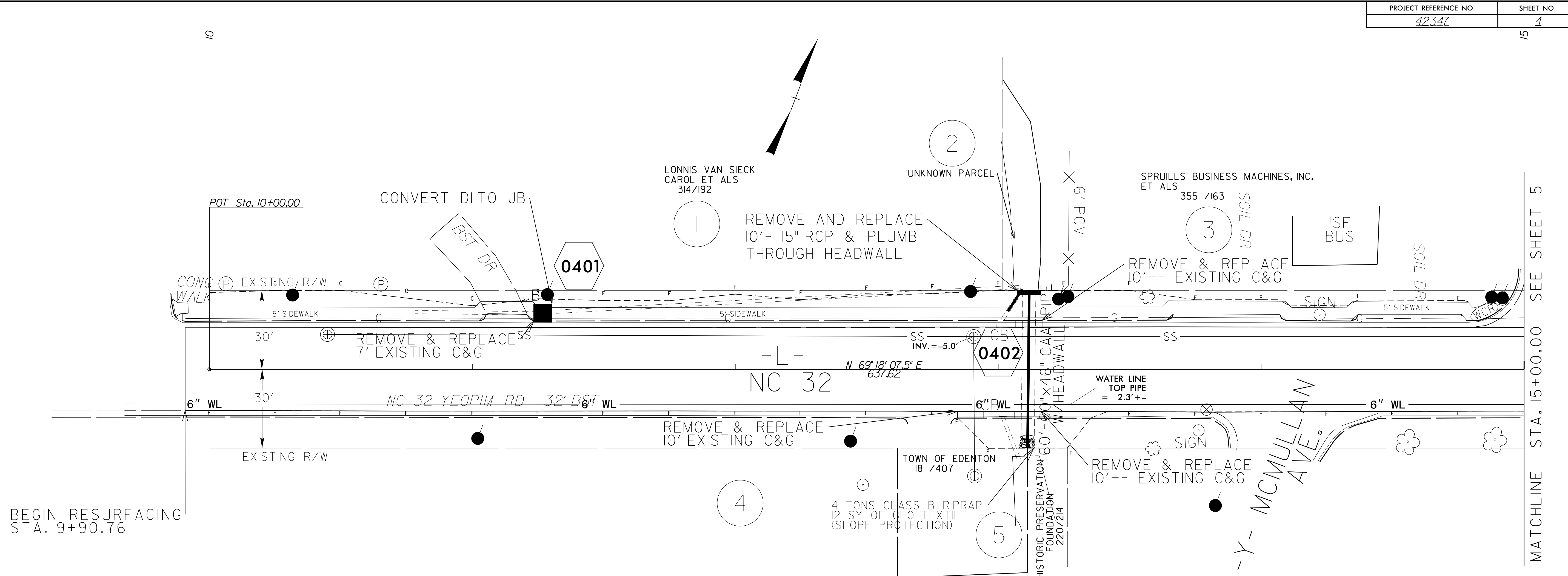
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	4" CONCRETE SIDEWALK	CONCRETE CURB RAMPS	6" CONCRETE DRIVEWAYS	ADJUSTMENT OF MANHOLE	ADJ. OF METER OR VALVE BOX	CONVERT EXISTING DROP INLET TO JUNCTION BOX	RIP RAP, CLASS B	FILTER FABRIC FOR DRAINAGE	TEMPORARY TRAFFIC CONTROL	TEMPORARY SILT FENCE	SEDIMENT CONTROL STONE	SAFETY FENCE	MATting FOR EROSION CONTROL	1/4" HARDWARE CLOTH	COIR FIBER WATTLE	SEEDING & MULCHING	
NO		NO			NO					MI	FT	SY	EA	SY	EA	EA	EA	TON	SY	LS	LF	TON	LF	SY	LF	LF	ACR	
42347	Chowan	1	NC 32	FROM R/R CROSSING TO OLD HERTFORD RD.	1	2	2WU	NO	NO	0.37	26		5	100	2	5	1	14	22	0.75	1,000	5	250	300	128	10	0.7	
TOTAL FOR MAP NO. 1										0.37			5	100	2	5	1	14	22	0.75	1,000	5	250	300	128	10	0.7	
TOTAL FOR PROJ NO. 42347										0.37			5	100	2	5	1	14	22	0.75	1,000	5	250	300	128	10	0.7	
3601.3.06	Chowan	1	NC32	FROM R/R CROSSING TO OLD HERTFORD RD.	1	2	2WU	NO	NO	0.37	14	1,000								0.21								
TOTAL FOR MAP NO. 1										0.37		1,000								0.21								
TOTAL FOR PROJ NO. 3601.3.06										0.37		1,000								0.21								
3601.3.08	Chowan	2	SR 1132	0.1 MILES FROM NC 32	SW	2	2WU	NO	NO	0.06	20	200	1							0.04							0.1	
TOTAL FOR MAP NO. 2										0.06		200	1							0.04								0.1
TOTAL FOR PROJ NO. 3601.3.08										0.06		200	1							0.04								0.1
GRAND TOTAL										0.43		1,200	6	100	2	5	1	14	22	1	1,000	5	250	300	128	10.0	0.8	





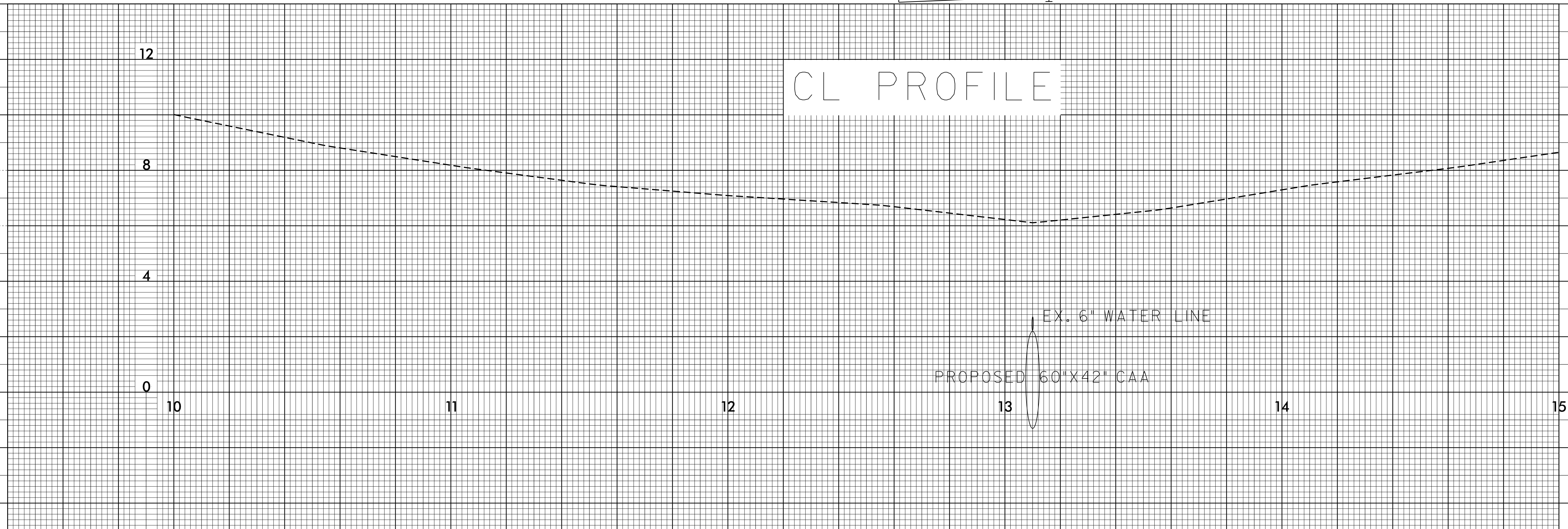
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REVISIONS



BEGIN RESURFACING STA. 9+90.76

MATCHLINE STA. 15+00.00 SEE SHEET 5

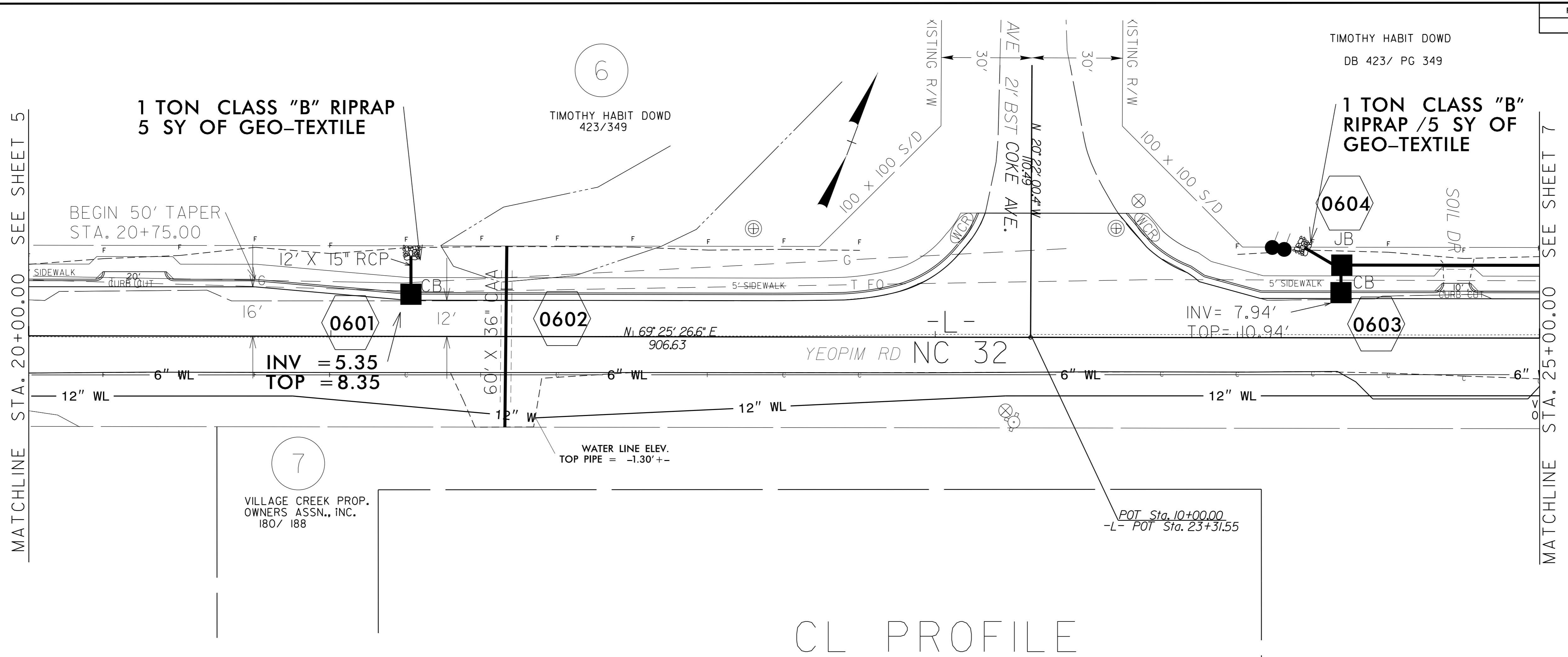


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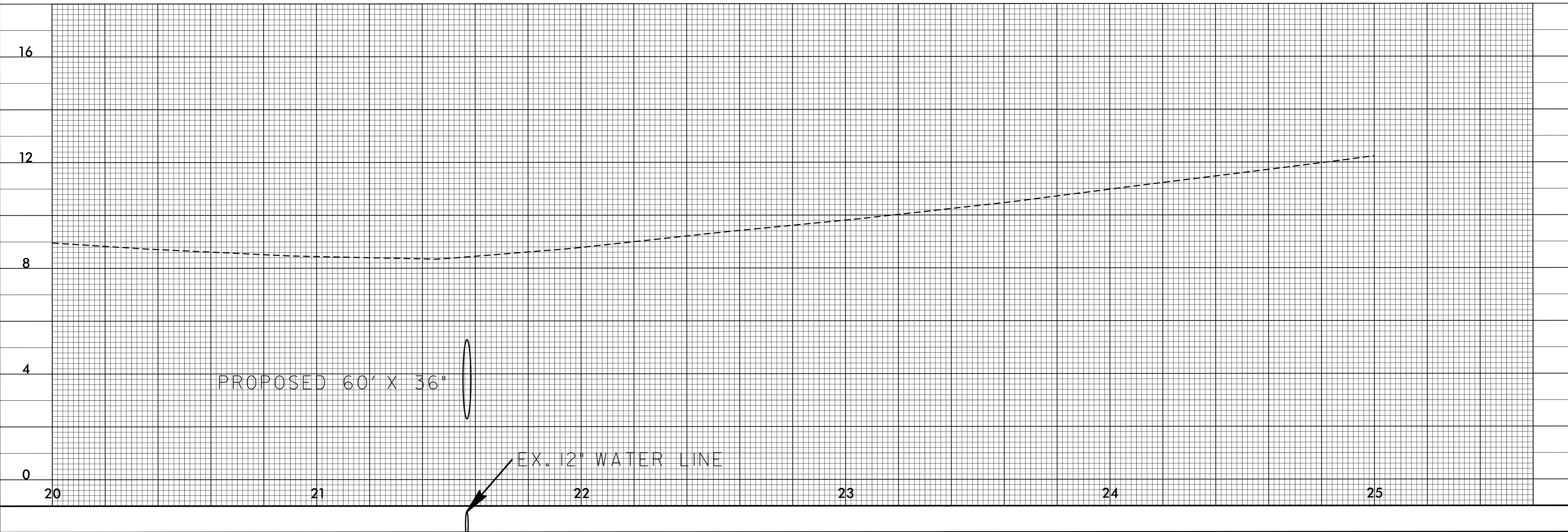




TIMOTHY HABIT DOWD  
DB 423/ PG 349



CL PROFILE



REVISIONS

8/17/99

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MATCHLINE STA. 20+00.00 SEE SHEET 5

MATCHLINE STA. 25+00.00 SEE SHEET 7

1 TON CLASS "B" RIPRAP  
5 SY OF GEO-TEXTILE

1 TON CLASS "B" RIPRAP /5 SY OF GEO-TEXTILE

INV = 5.35  
TOP = 8.35

INV = 7.94'  
TOP = 10.94'

VILLAGE CREEK PROP.  
OWNERS ASSN., INC.  
180/ 188

WATER LINE ELEV.  
TOP PIPE = -1.30' +/-

POT Sta. 10+00.00  
-L- POT Sta. 23+31.55

6  
TIMOTHY HABIT DOWD  
423/349

7

BEGIN 50' TAPER  
STA. 20+75.00

SIDEWALK  
20' CURB CUT

16'

12' X 15" RCP

0601

0602

0604

0603

N 69° 25' 26.6" E  
906.63

YEOPIM RD NC 32

-L-

12" WL

6" WL

6" WL

12" WL

6" WL

12" WL

5" SIDEWALK

SOIL DR

10' CURB CUT

100 X 100 S/D

100 X 100 S/D

AVE  
21' BST COKE AVE.

30'

30'

KISTING R/W

KISTING R/W

6

7

PROPOSED 60' X 36"

EX. 12" WATER LINE

20

21

22

23

24

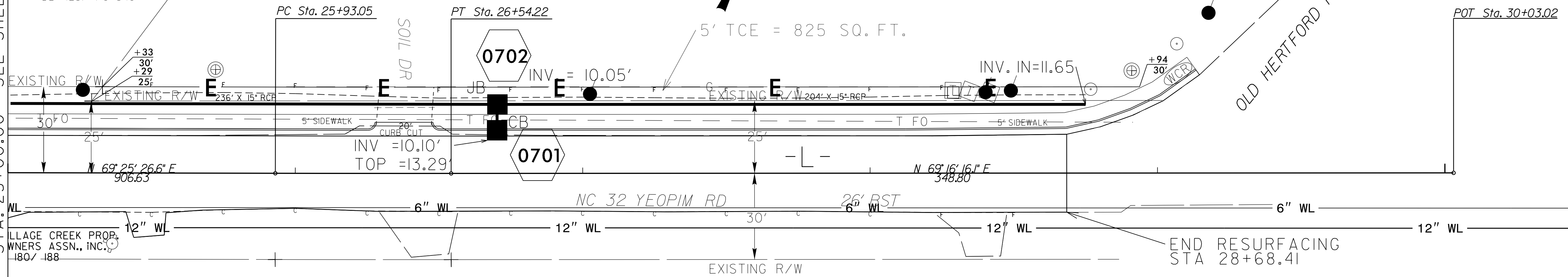
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8/17/99

MATCHLINE STA. 25+00.00 SEE SHEET 6

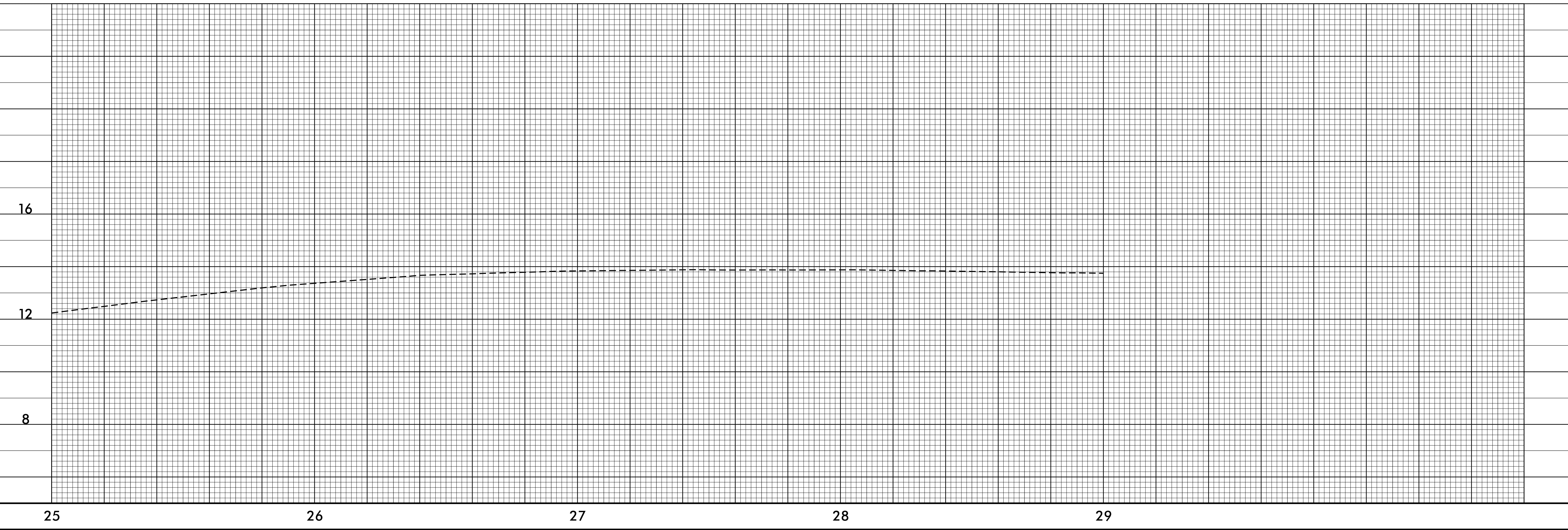
TIMOTHY HABIT DOWD  
DB 423/ PG 349

JOHN GILLIAM WOOD, JR.  
DB 27/ PG 478



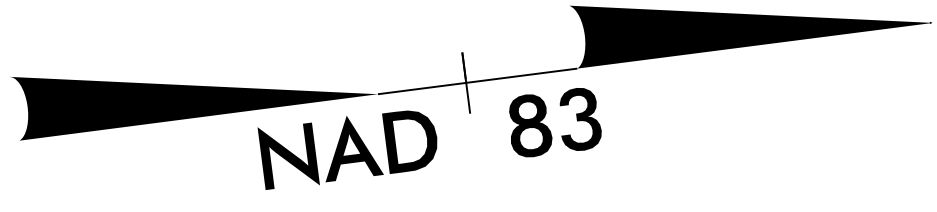
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 $D = 0^\circ 15' 00.0"$   
 $L = 61.17'$   
 $T = 30.59'$   
 $R = 22,918.31'$

# CL PROFILE



REVISIONS

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**DATUM DESCRIPTION**

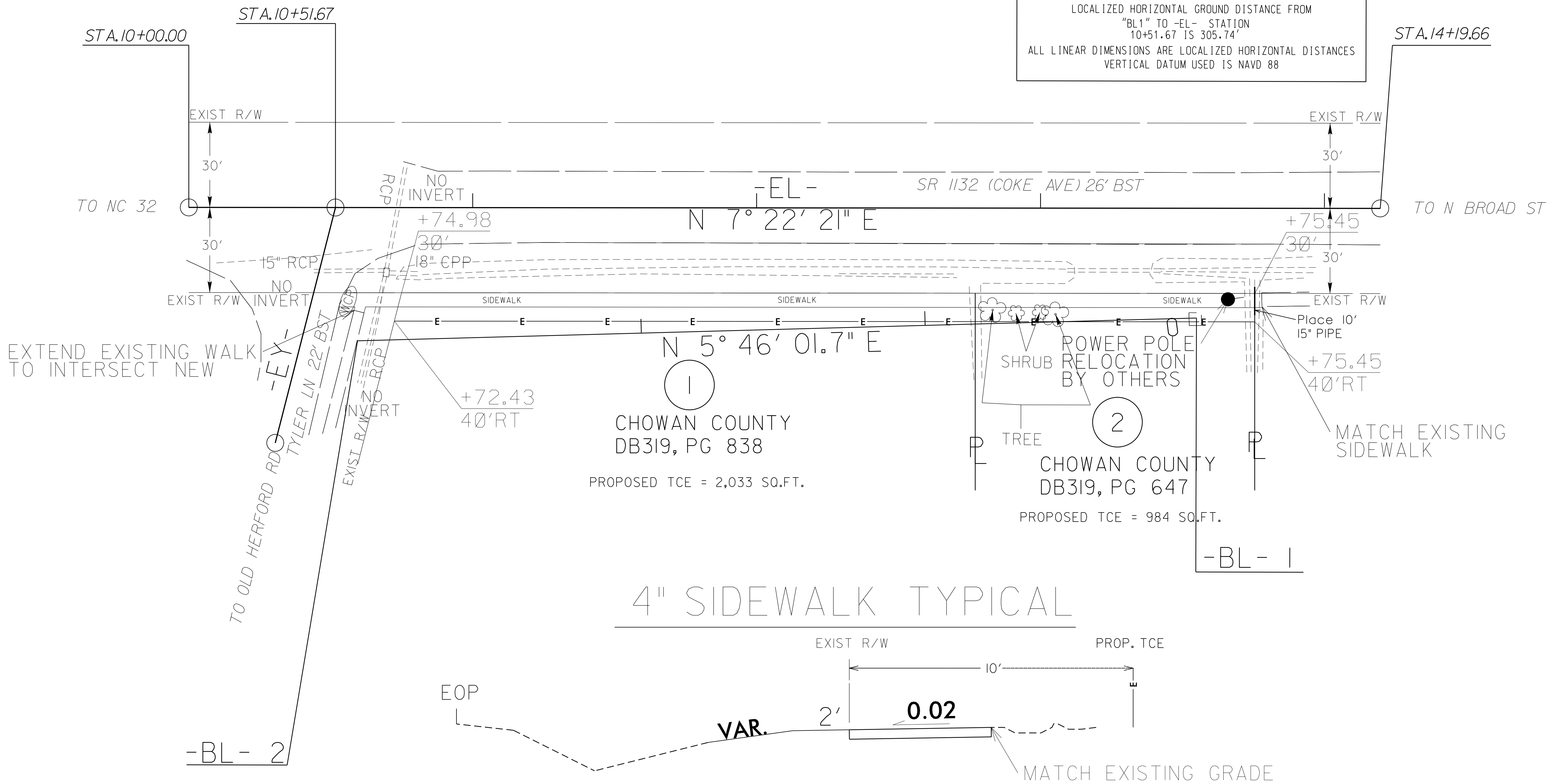
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BL1"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF  
 NORTHING: 853522.3170(ft) EASTING: 2710149.7780(ft)  
 ELEVATION: 15.97(ft)

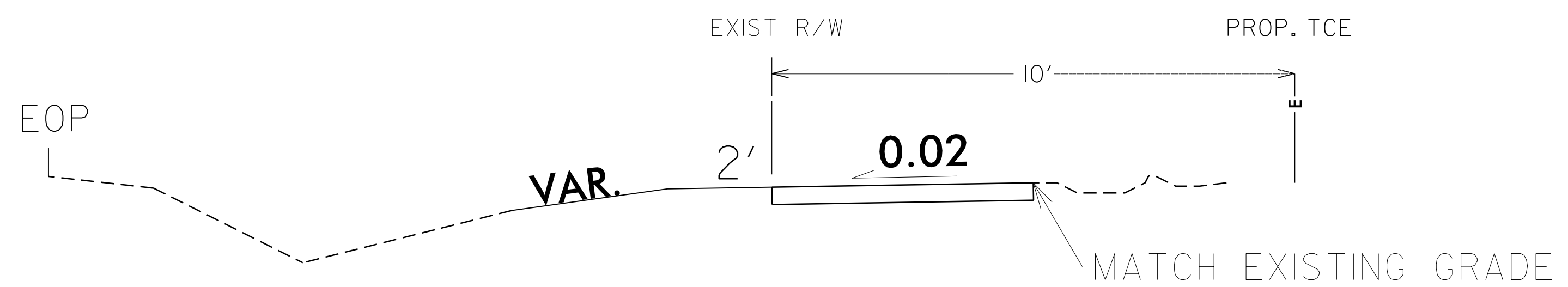
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THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL1" TO -EL- STATION 10+51.67 IS 305.74'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88



4" SIDEWALK TYPICAL



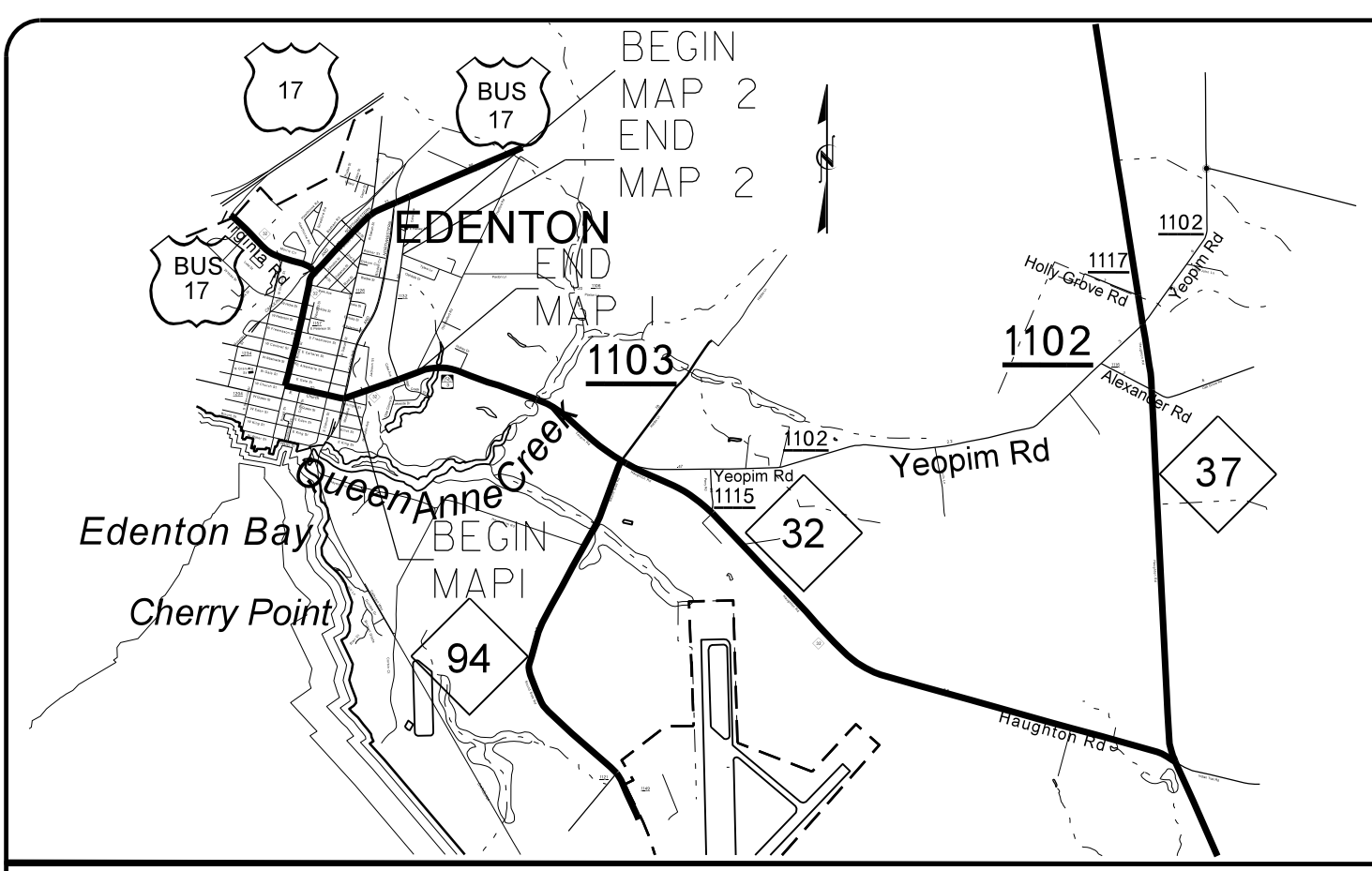
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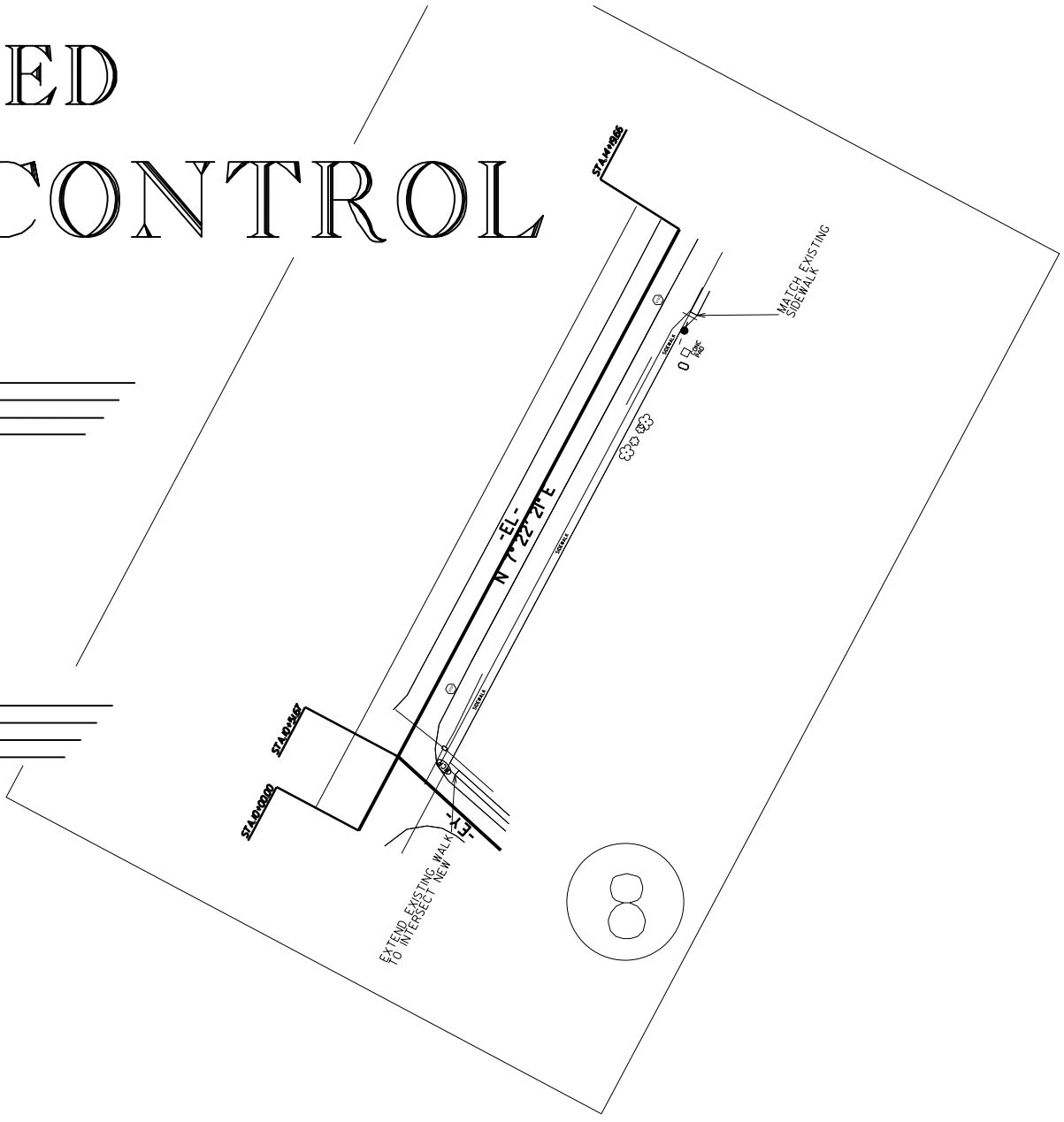
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N.C.	42347	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42347	STP-0005(424)		
3601.3.06			
3601.3.08			

# PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

## CHOWAN

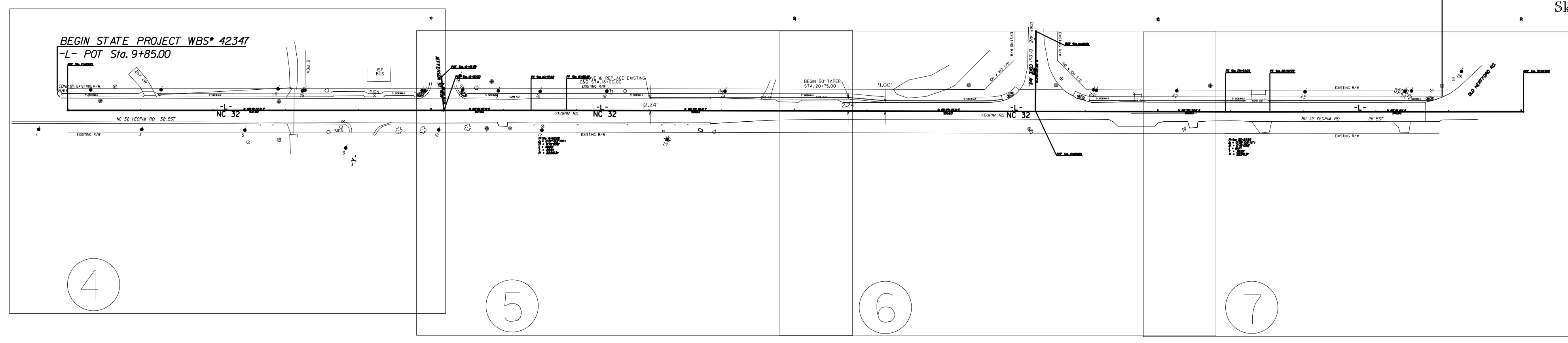


VICINITY MAP



### 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.



### EROSION AND SEDIMENT CONTROL MEASURES

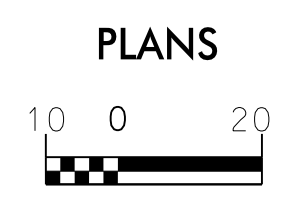
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSB
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary 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	▭

### 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.

## STATE OF NORTH CAROLINA

### GRAPHIC SCALE



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

**S. P. FENWICK**

**CERTIFICATION  
NUMBER: 267**

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:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr.  
Edenton, NC 27930

**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

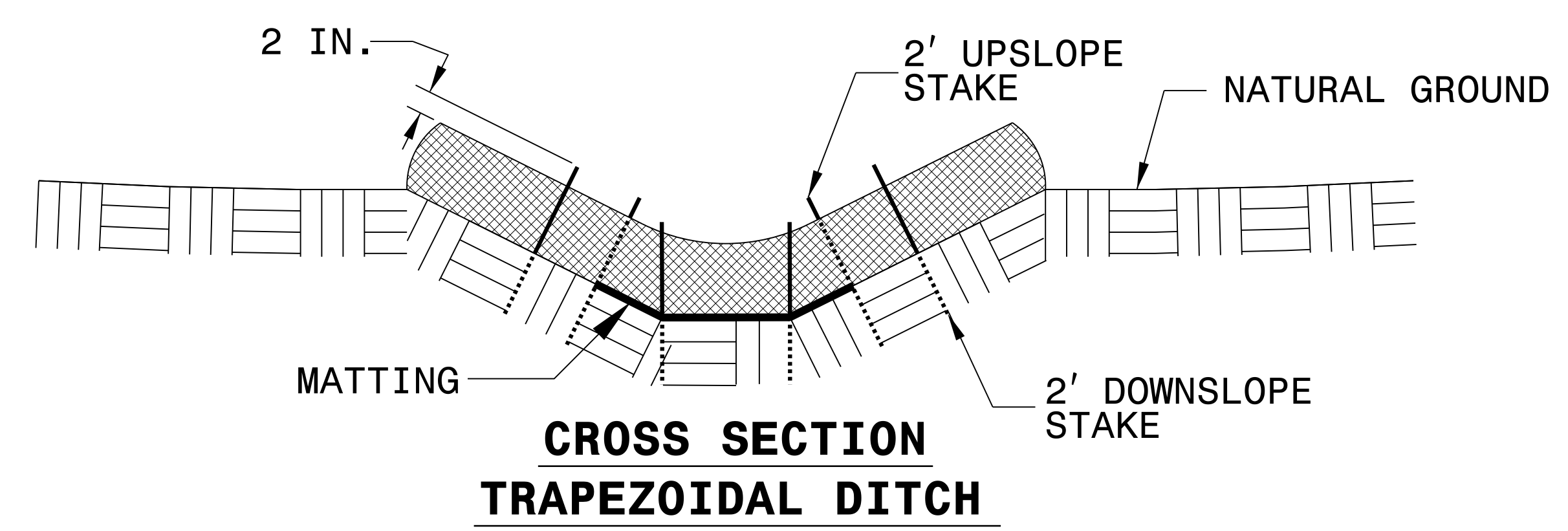
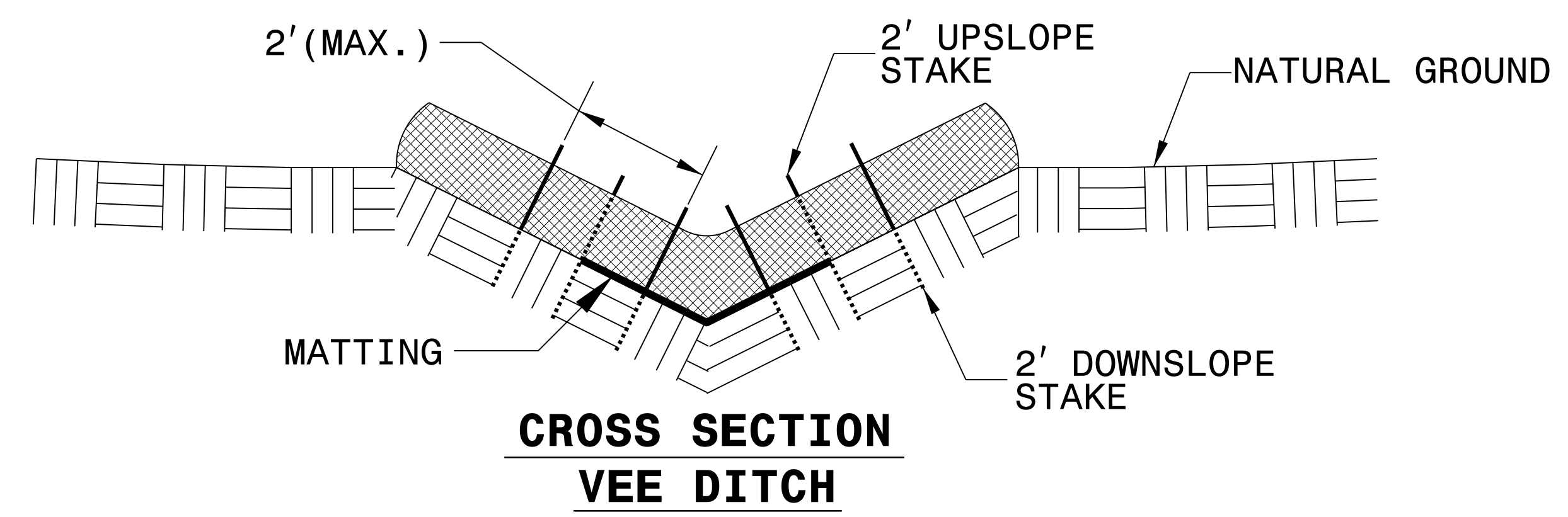
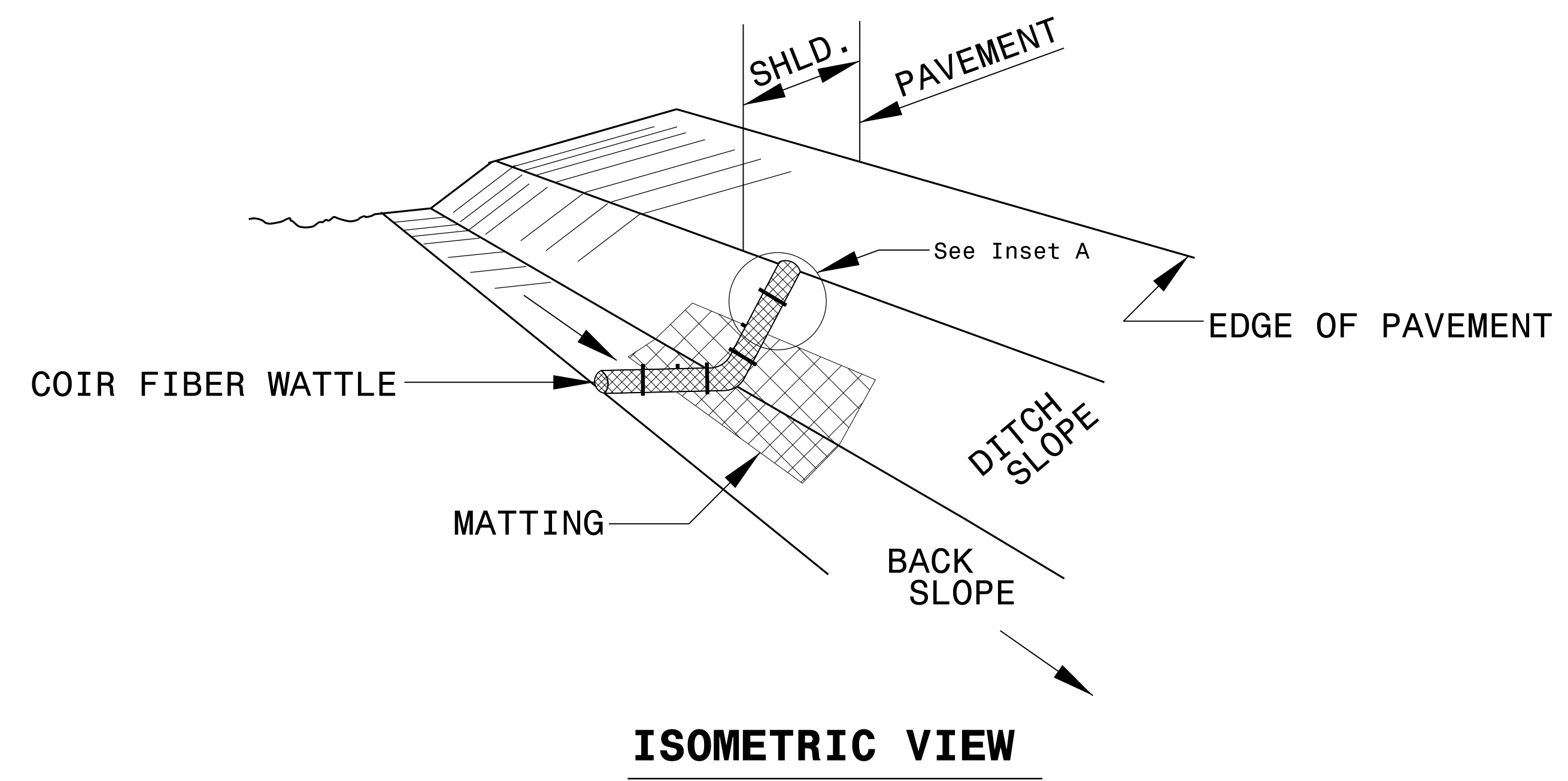
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	

**WBS# : 42347**  
  
**CONTRACT# : DA00157**



# 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.

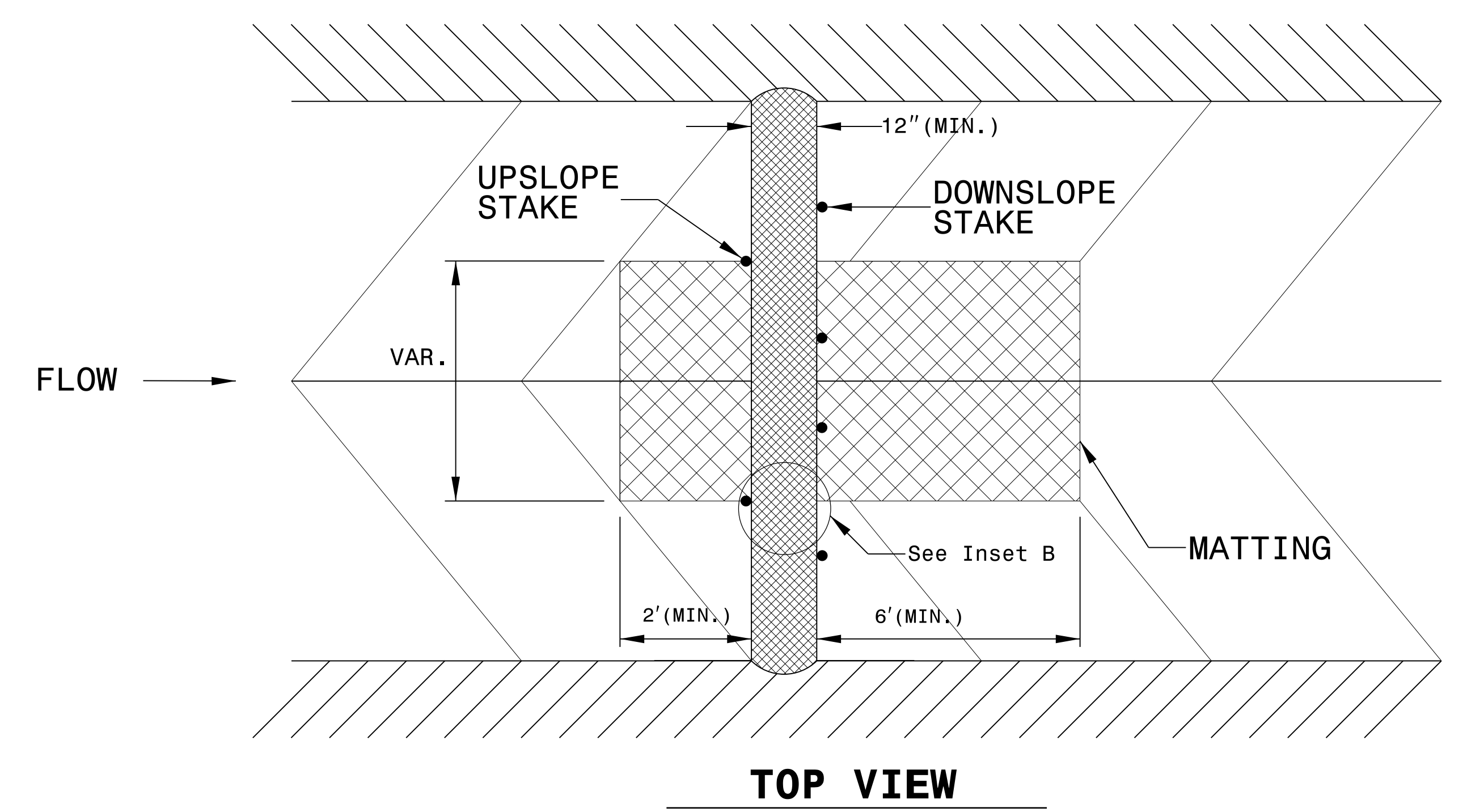
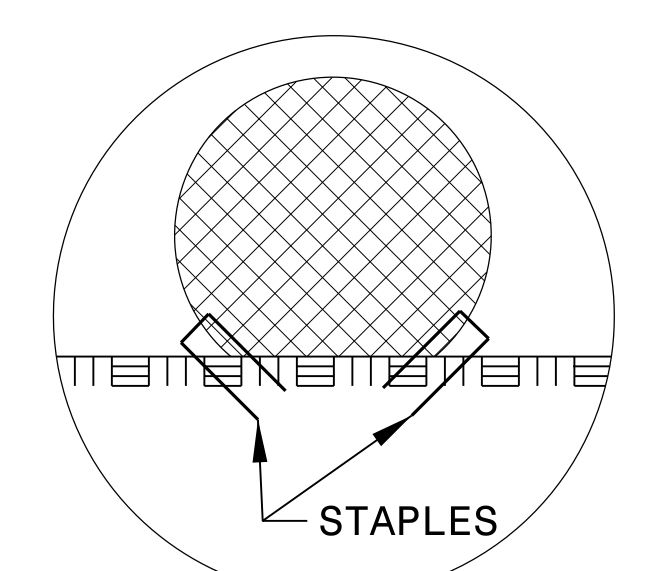
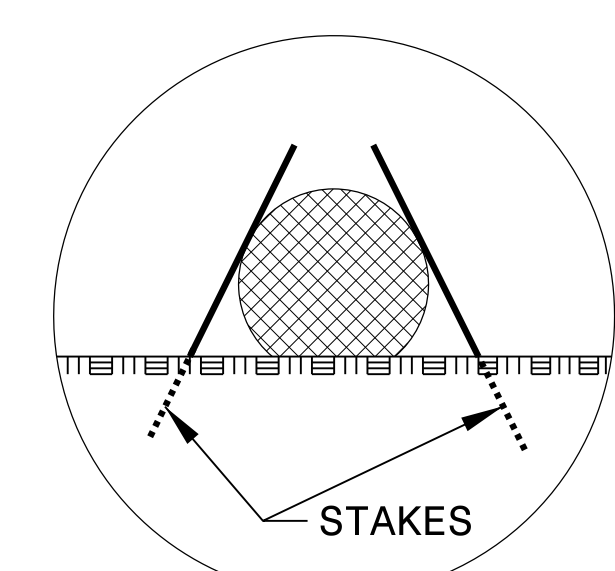
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

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## ***SOIL STABILIZATION TIMEFRAMES***

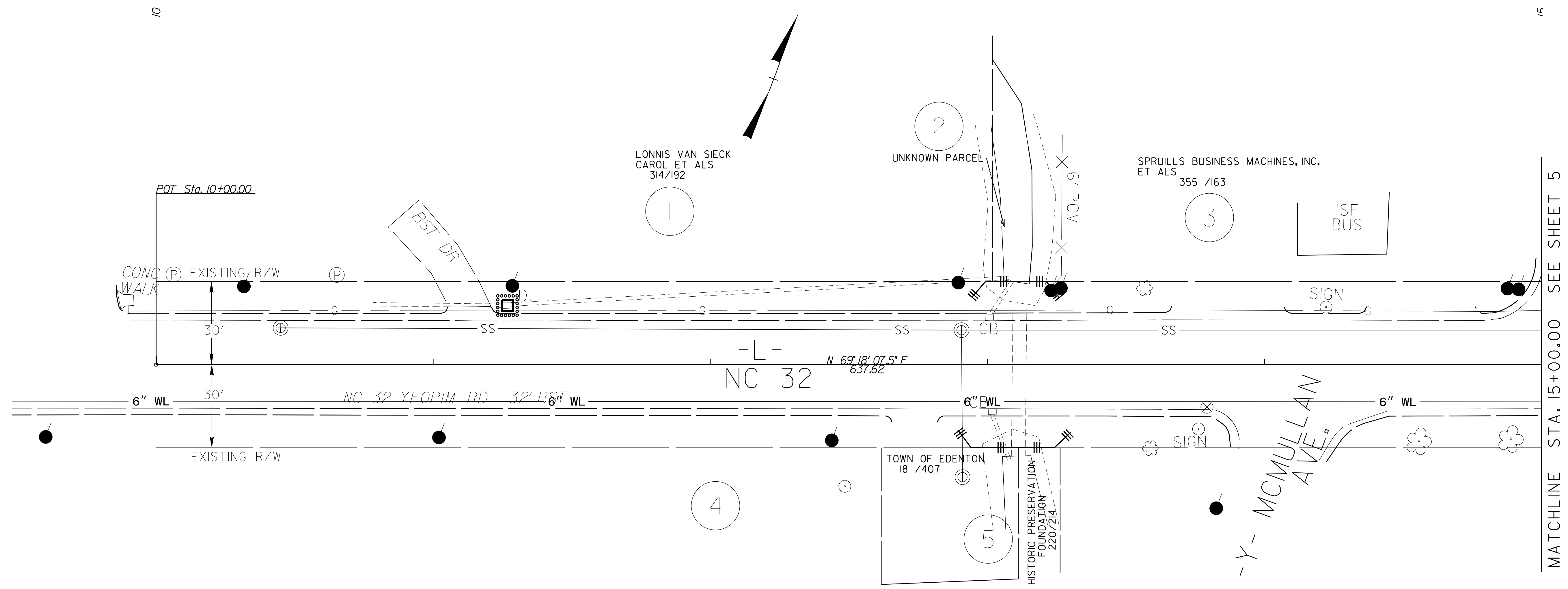
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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

8/17/99

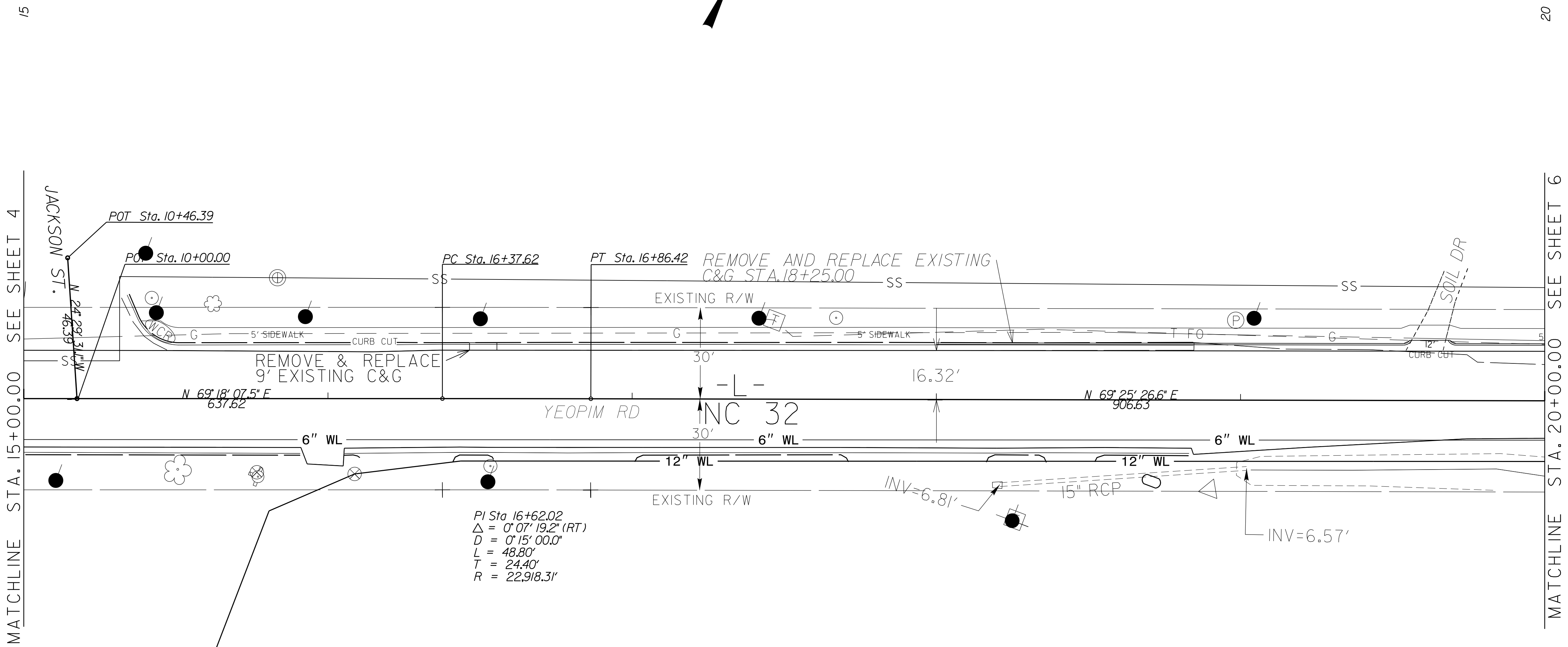
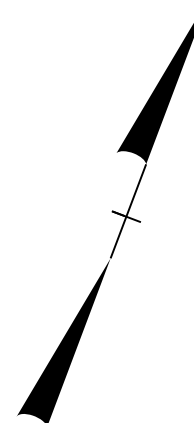
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# EROSION CONTROL PLAN



REVISIONS

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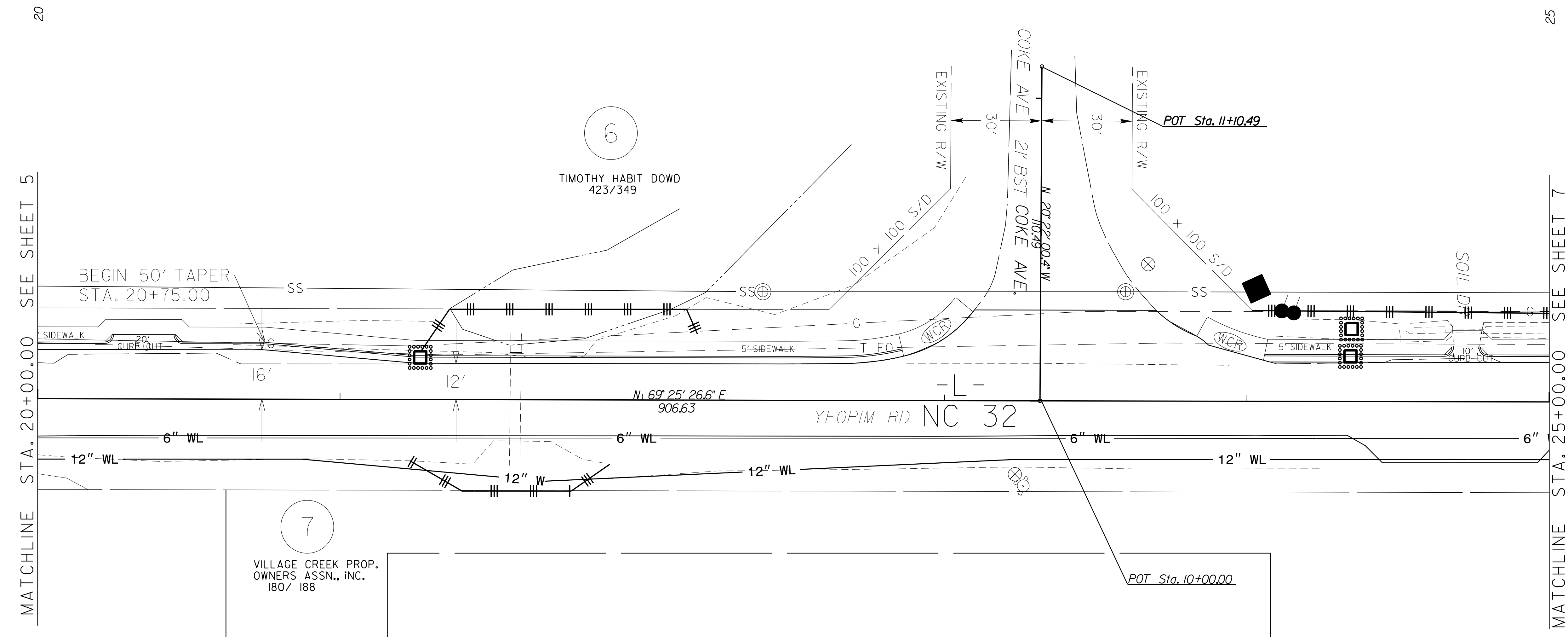
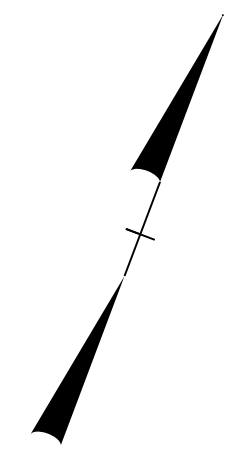
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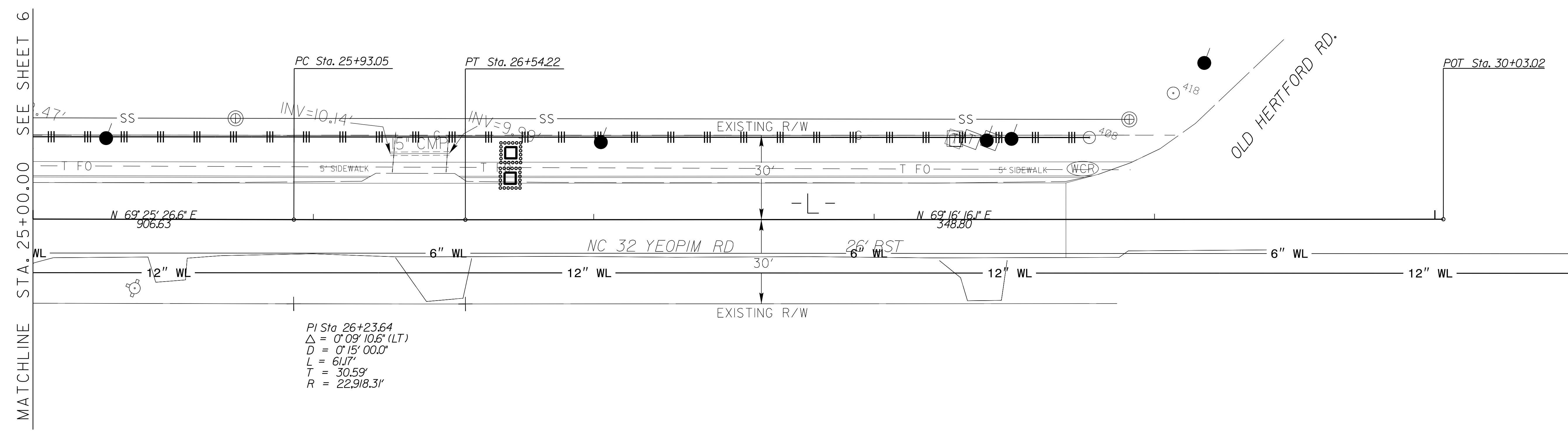
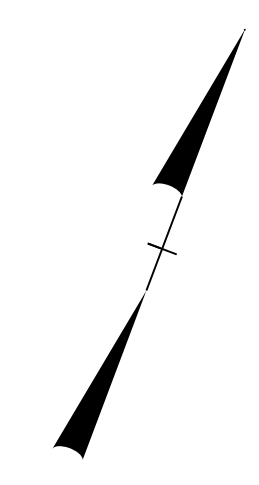
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# EROSION CONTROL PLAN



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# EROSION CONTROL PLAN



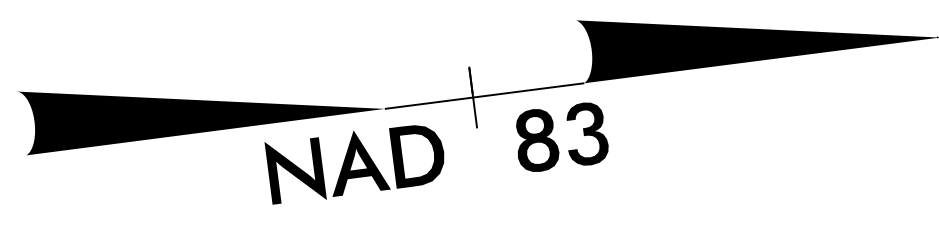
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# EROSION CONTROL PLAN



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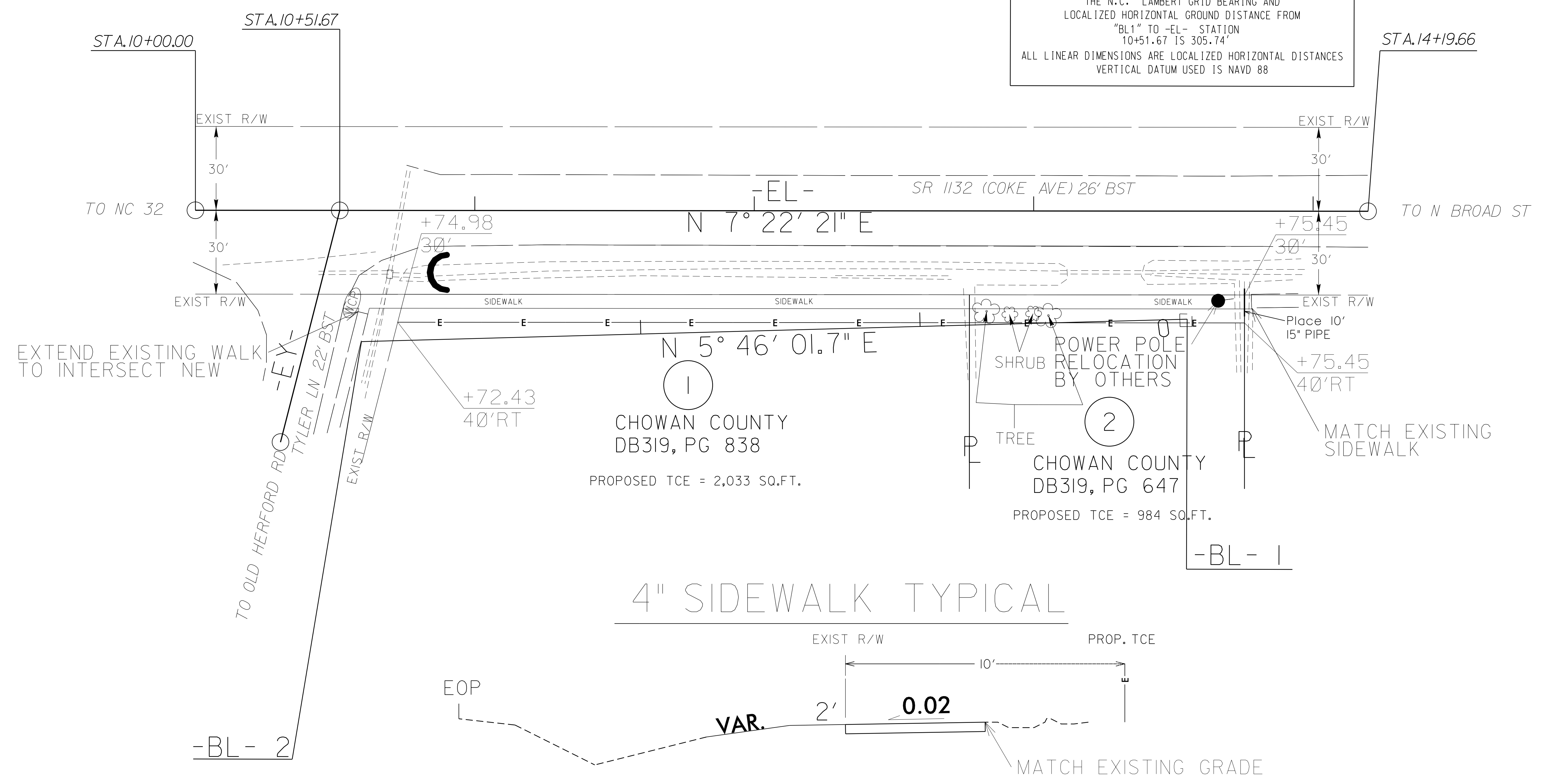
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 ELEVATION: 15.97(ft)

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 VERTICAL DATUM USED IS NAVD 88



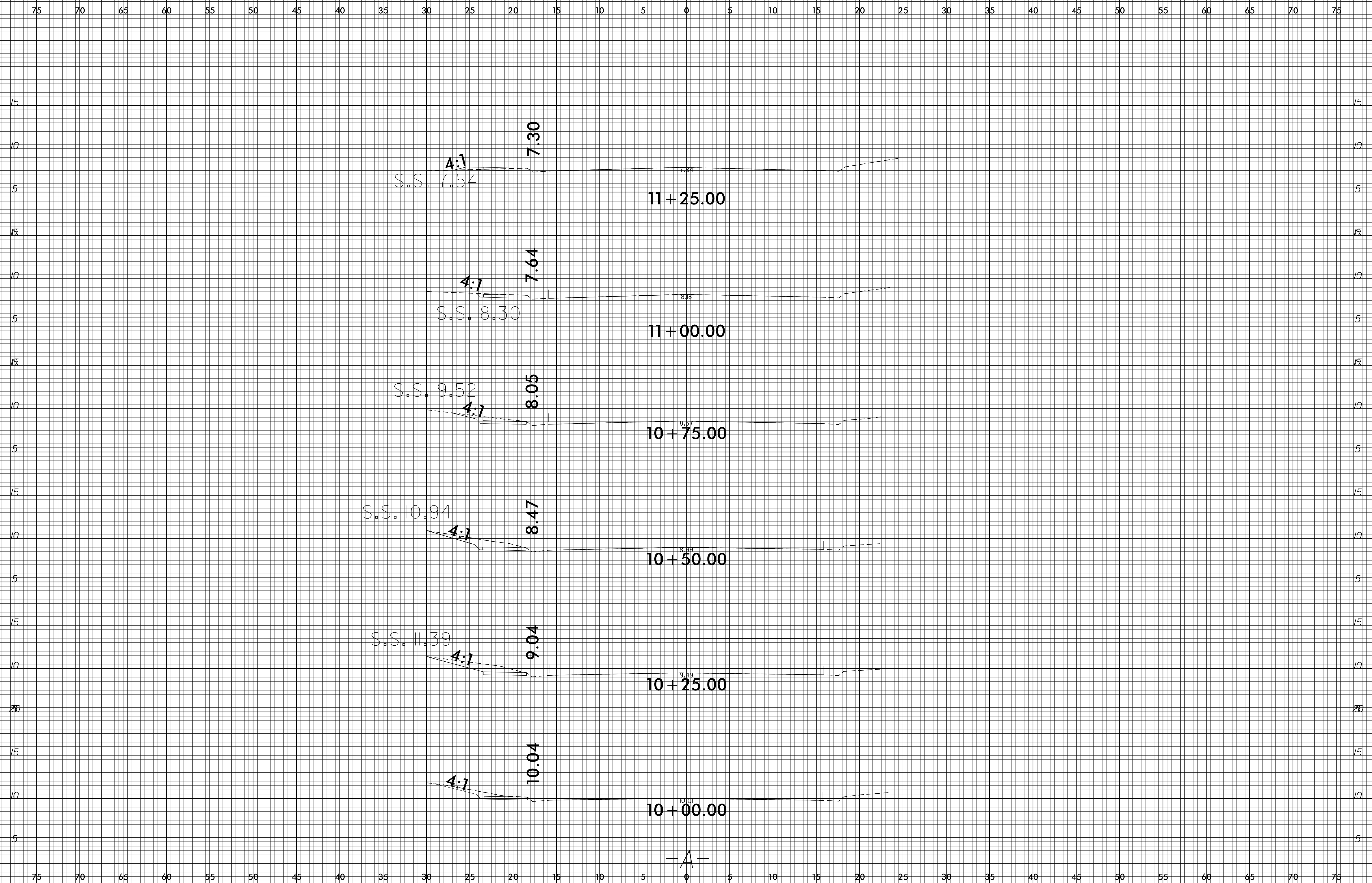
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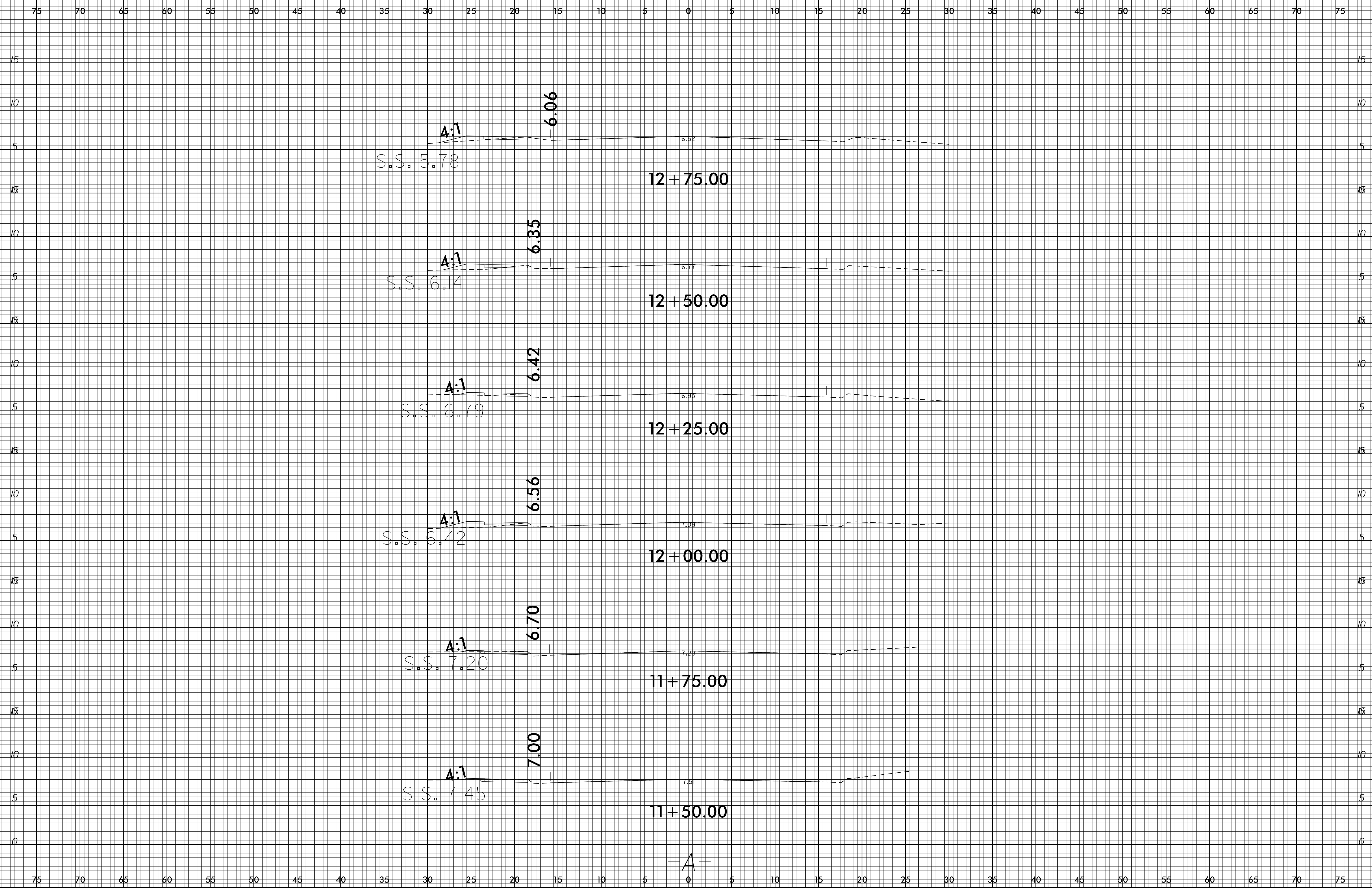




8/23/99



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stefenwick



4:1  
S.S. 5.78  
6.06  
12 + 75.00

4:1  
S.S. 6.4  
6.35  
12 + 50.00

4:1  
S.S. 6.79  
6.42  
12 + 25.00

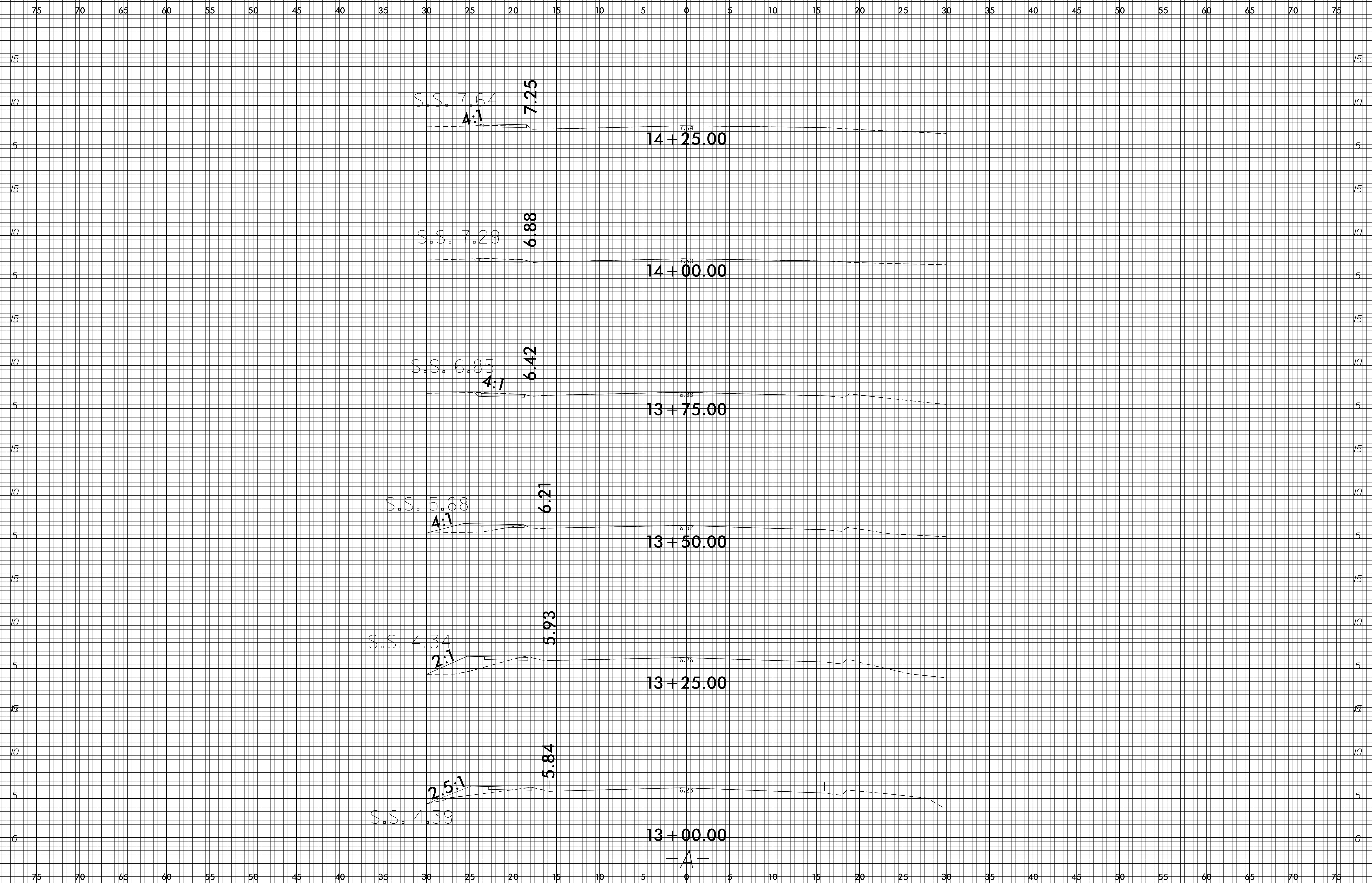
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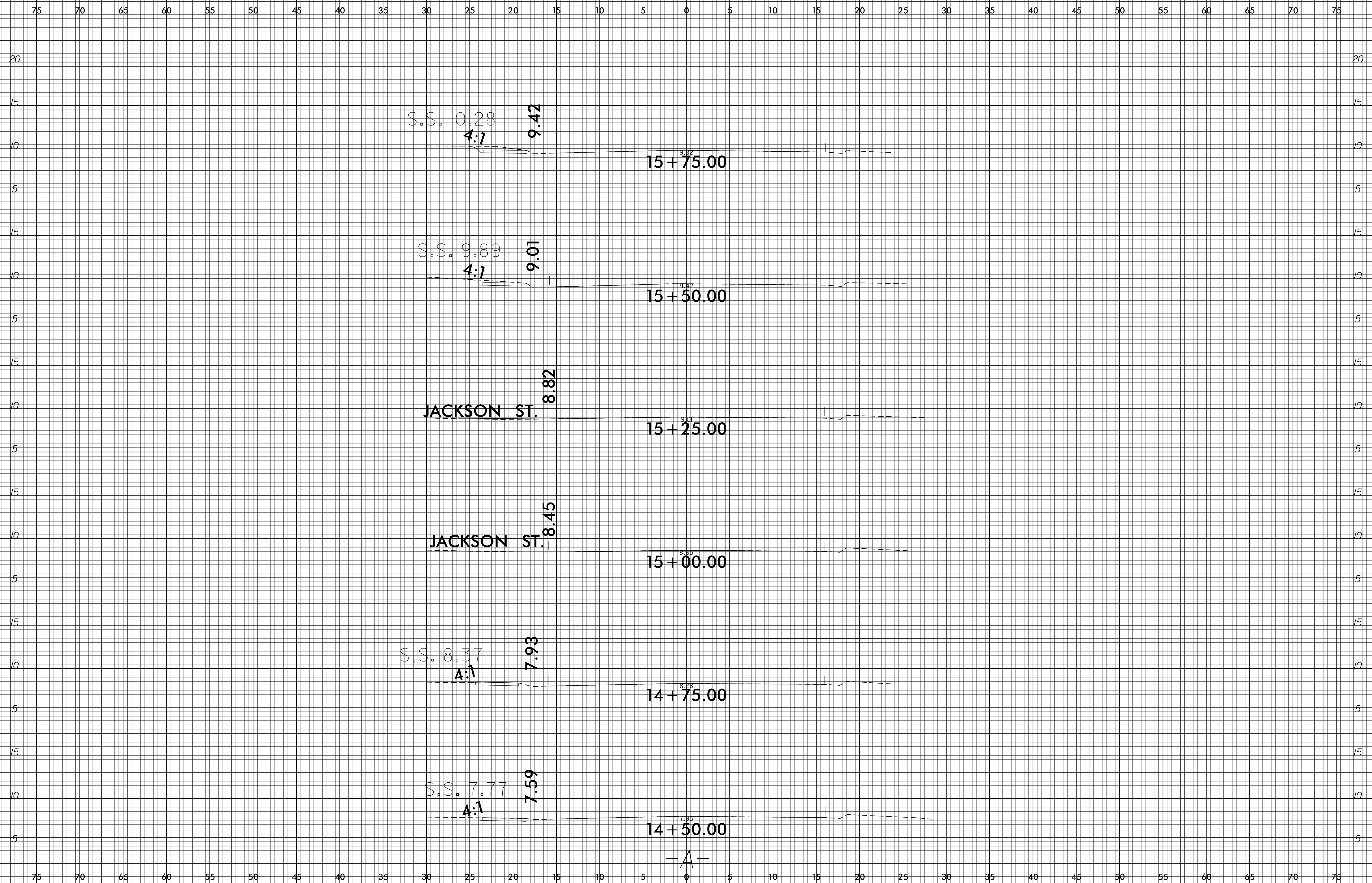
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11 + 50.00

-A-

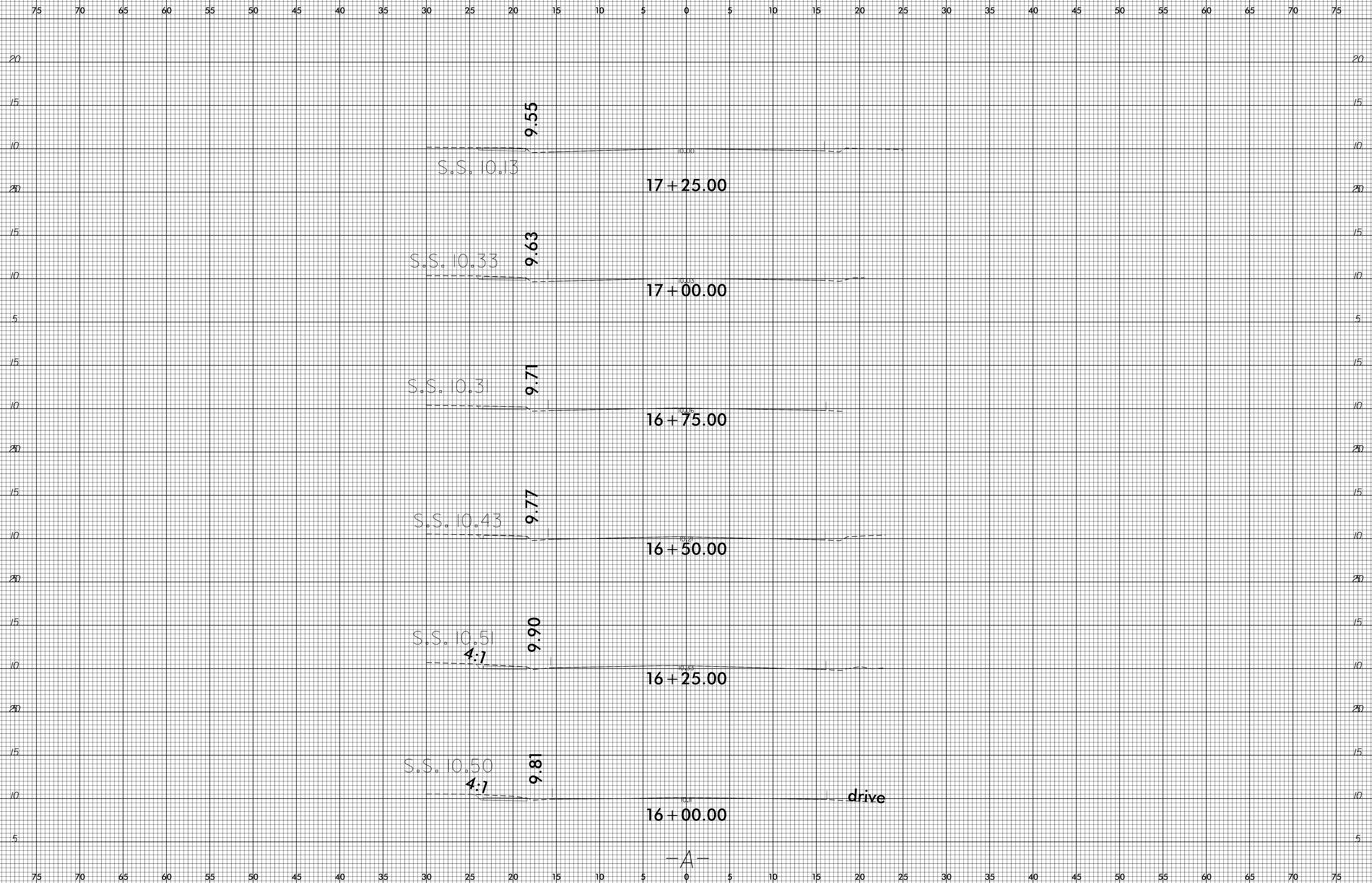
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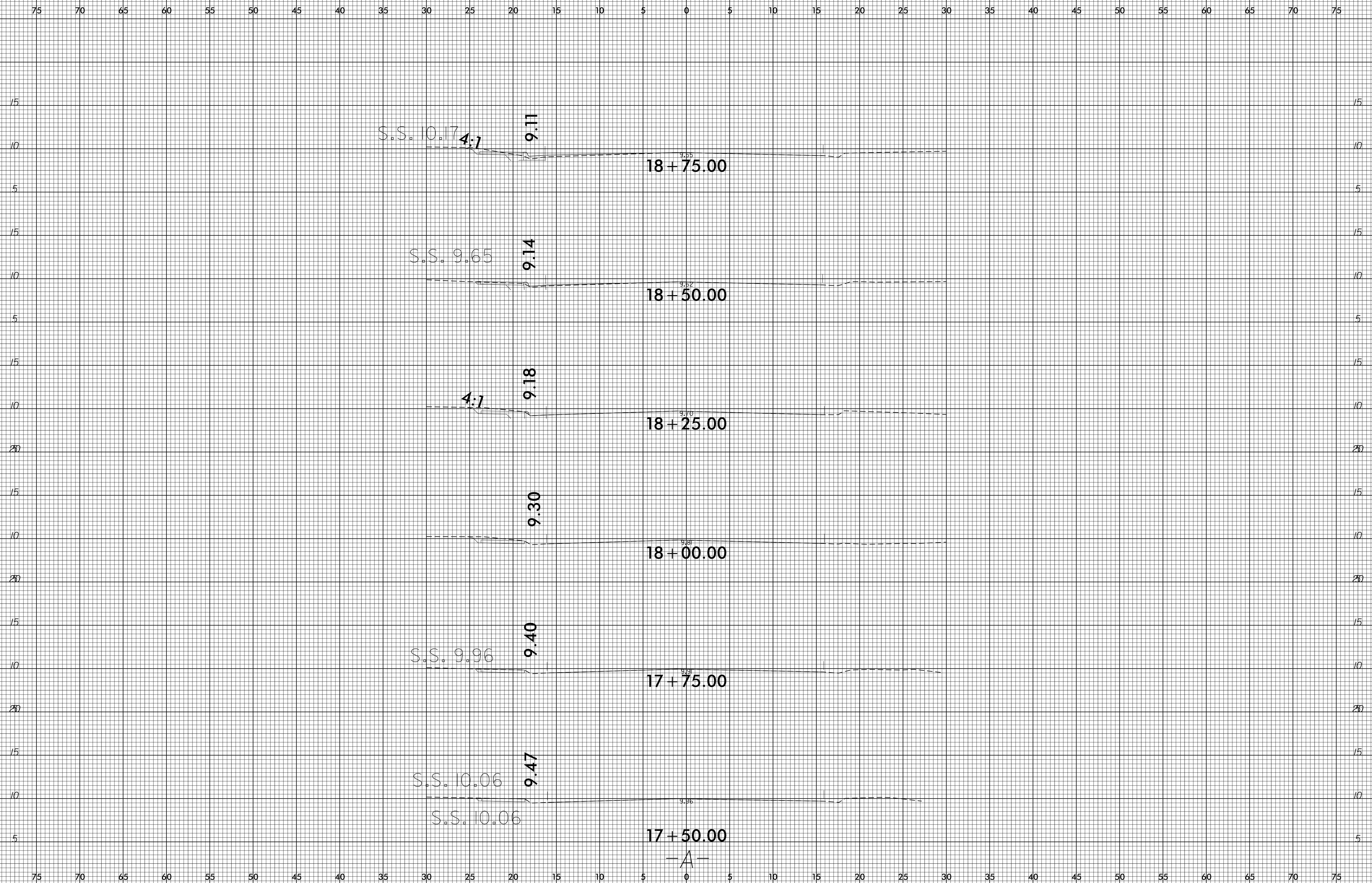
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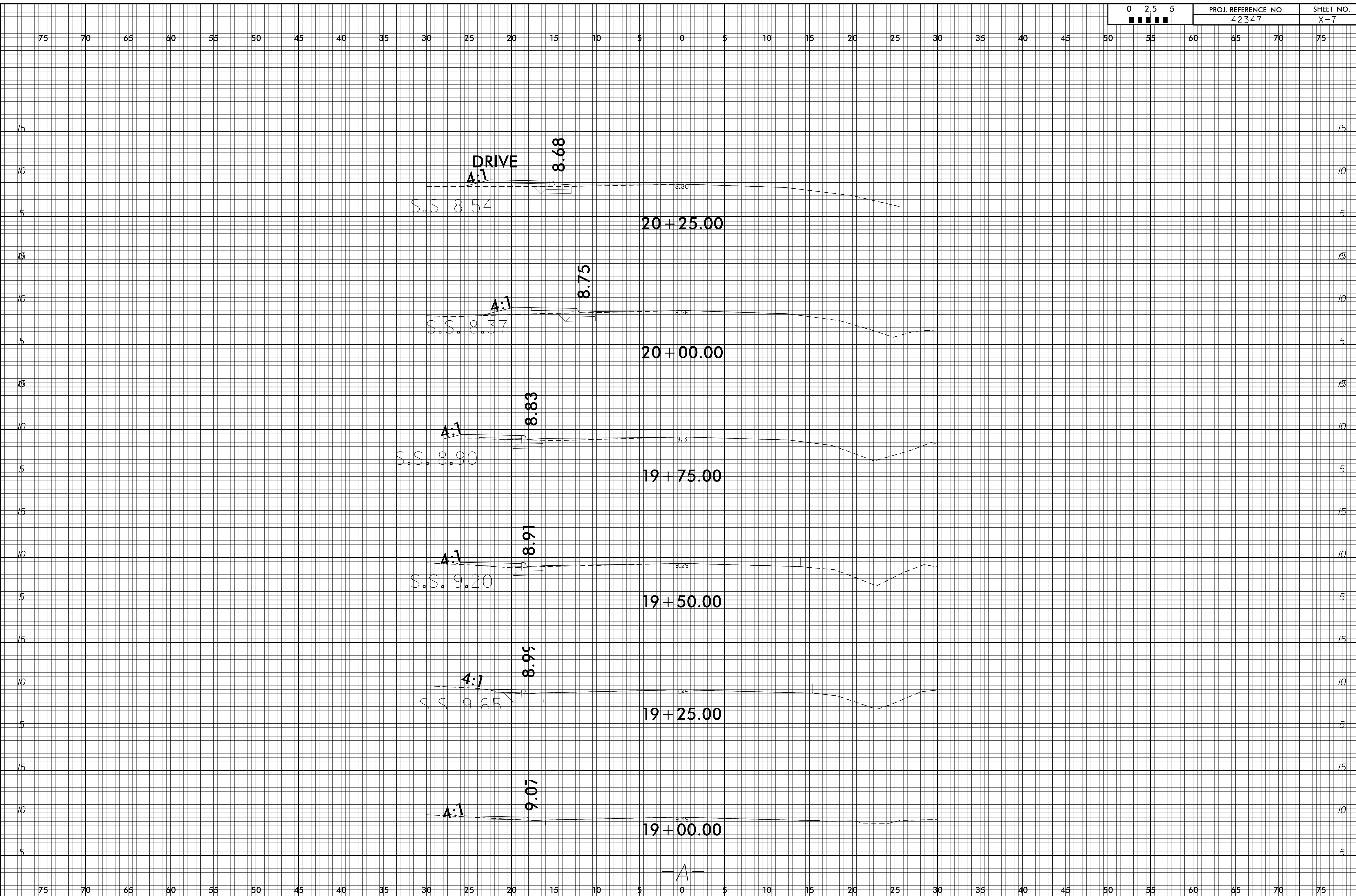








8/23/99



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