STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5203L	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
45333.1.12	HRRR-1519(5)	P.E.
45333.3.12	HRRR-1519(5)	CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

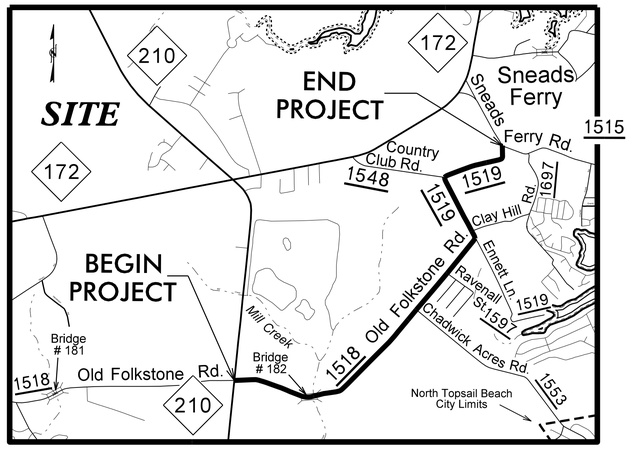
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ONSLOW COUNTY

LOCATION: SR 1518 /SR 1519 (OLD FOLKSTONE ROAD /COUNTRY CLUB ROAD) FROM NC 210 TO SR 1515 (SNEADS FERRY ROAD)

TYPE OF WORK: GRADING, DRAINAGE, WIDENING FOR PAVED SHOULDERS, AND THERMOPLASTIC PROFILED PAVEMENT MARKING LINES, ETC.

See Sheet 1-A For Index of Sheets



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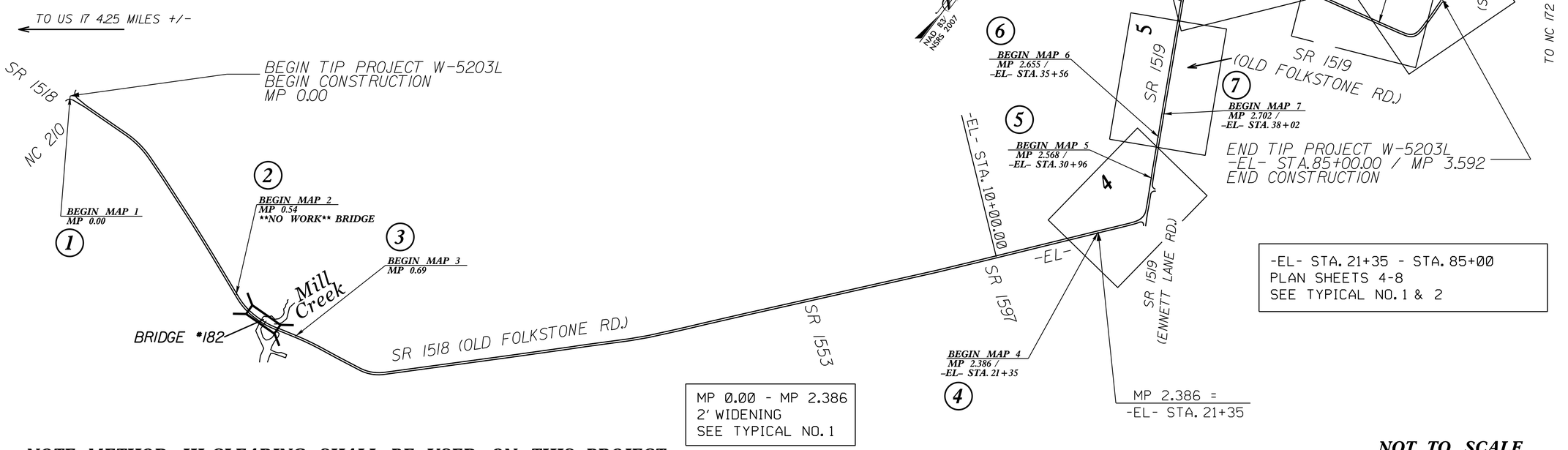

NOTE: METHOD III CLEARING SHALL BE USED ON THIS PROJECT

NOT TO SCALE

TIP PROJECT: W-5203L

CONTRACT: DC00149

GRAPHIC SCALES

PLANS: 0 50 100

PROFILE (HORIZONTAL): 0 20 40

PROFILE (VERTICAL): 0 5 10

ADT 5,100 = 2013

DESIGN SPEED = 50–60 MPH

FUNC. CLASS = MAJOR COLLECTOR

PROJECT LENGTH

MAP NO. 1	=	0.540 MI.
MAP NO. 2	=	0.150 MI.
MAP NO. 3	=	1.696 MI.
MAP NO. 4	=	0.182 MI.
MAP NO. 5	=	0.087 MI.
MAP NO. 6	=	0.047 MI.
MAP NO. 7	=	0.234 MI.
MAP NO. 8	=	0.286 MI.
MAP NO. 9	=	0.205 MI.
MAP NO. 10	=	0.165 MI.
TOTAL	=	3.592 MI.

Prepared in the Office of:

DIVISION OF HIGHWAYS

5501 Barbados Blvd., Castle Hayne, NC 28429

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE: 10 /2016

DAVID B. LEONARD, PE — PROJECT DESIGN ENGINEER

CARLA M. SCHOONMAKER — PROJECT DESIGN TECHNICIAN

JONATHAN W. MITCHELL — PROJECT DESIGN TECHNICIAN

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 039745 ENGINEER Jonathan Lyle Moore P.E.

SIGNATURE:

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD P.E.

SIGNATURE:

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

09/08/99
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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	1A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

DIVISION DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.24	Frames and Narrow Slot Sag Grates
840.66	Drainage Structure Steps
840.72	Pipe Collar
876.02	Guide for Rip Rap at Pipe Outlets
DIVISION 11 - TRAFFIC CONTROL	
1101.01	Work Zone Advance Warning Signs for Facilities ≤ 55 MPH
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder closures
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs
1110.02	Portable Work Zone Signs
1130.01	Drum
1145.01	Barricades
1165.01	Work Vehicle Lighting Systems and TMA Delineation
1180.01	Skinny Drums
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT	
1605.01	Temporary Silt Fence
1631.01	Matting Installation

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 07-30-12

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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.

CLEARING:

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

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.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:
JONES ONSLOW - BENNIE MELTON 910.353.1940
CENTURY LINK - ANTHONY MELILLI 910.577.9359
ONWASA - MATTHEW PADGETT 910.937.7559
CHARTER CABLE - NICK BROWN 910.329.1775

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C	SURVEY CONTROL SHEET
2A-1 THRU 2A-3	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3A-1 THRU 3A-5	SUMMARY OF QUANTITIES
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
4 THRU 8	PLAN SHEETS
EC-1 THRU EC-7	EROSION CONTROL PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-15	CROSS-SECTIONS

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$$$$USERNAME$$$$

09/08/09

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	1B

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 — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB

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 — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — 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 Marker — RW
- 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 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 Wheel Chair Ramp — WCR
- 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 — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole — HH
- 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 — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- 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 — W
- 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 — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- 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 — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- A/G Tank; Water, Gas, Oil
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
45333.1.12	1C
Location and Surveys	

SURVEY CONTROL SHEET W_5203L

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT: HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/

   SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

▲ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

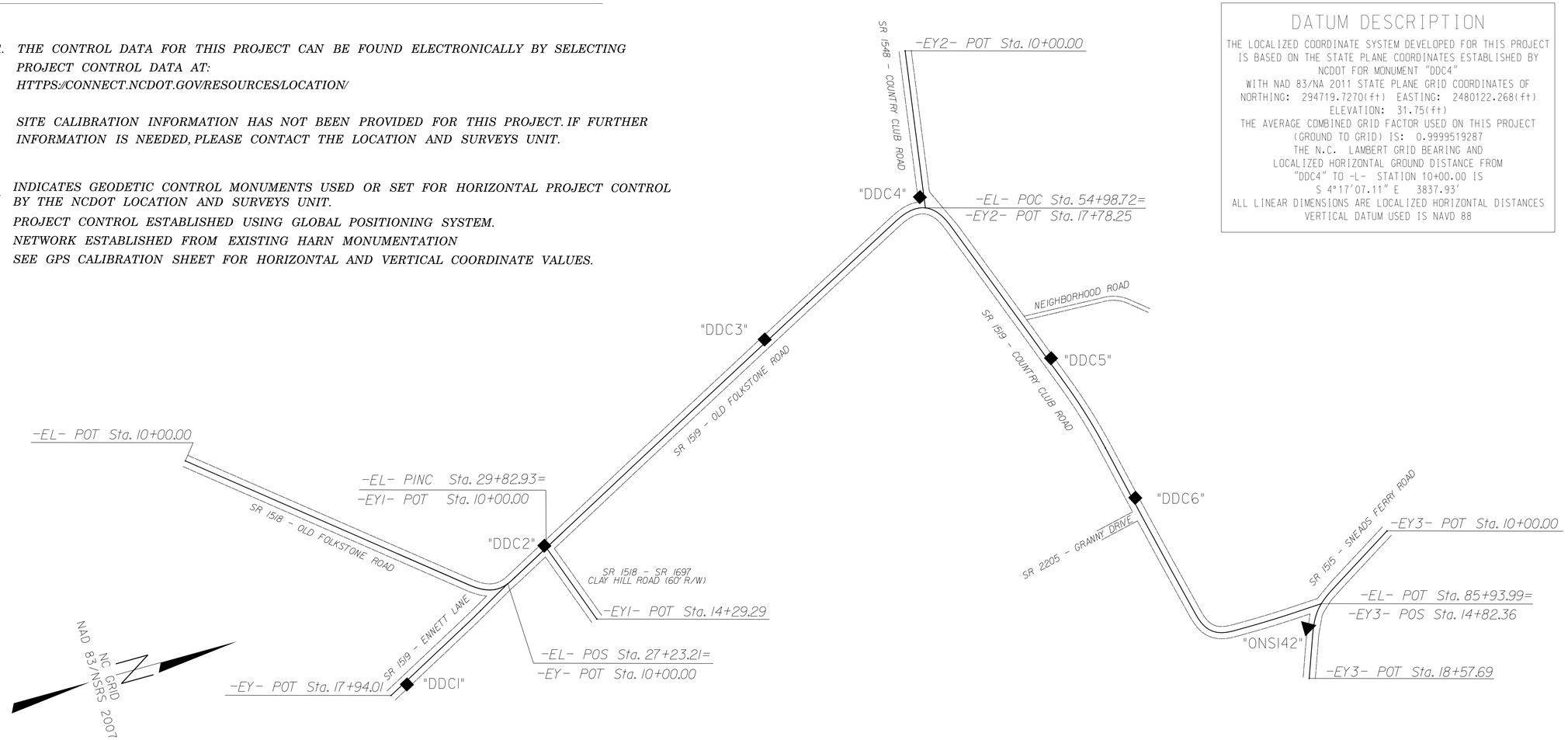
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION

SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "DDC4"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 294719.7270(ft) EASTING: 2480122.268(ft)
ELEVATION: 31.75(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999519287
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "DDC4" TO -L- STATION 10+00.00 IS
S 4°17'07.11" E 3837.93'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



"ONS146"

BL

POINT	DESC.	NORTH	EAST	ELEVATION	EL STATION	OFFSET
DDC2	REBAR\GPSCAP	292483.3410	2481281.4600	29.10	29+82.96	13.94 LT
DDC3	REBAR\GPSCAP	293797.6530	2480593.4030	29.00	44+66.43	13.04 LT
DDC4	REBAR\GPSCAP	294719.7270	2480122.2680	31.75	54+76.37	52.99 LT
DDC5	REBAR\GPSCAP	295130.1800	2481057.4650	26.77	64+72.19	16.59 LT
DDC6	REBAR\GPSCAP	295346.7100	2481829.0030	27.66	72+72.61	14.53 LT
ONS142	REBAR\GPSCAP	295993.2140	2482669.7170	27.41	84+92.92	90.28 RT
ONS146	REBAR\GPSCAP	295689.0690	2483665.3600	29.42	OUTSIDE LIMITS	

BY

POINT	DESC.	NORTH	EAST	ELEVATION	EY STATION	OFFSET
DDC1	REBAR\GPSCAP	291650.3900	2481758.5970	27.98	16+99.74	14.09 LT

NOTE: DRAWING NOT TO SCALE

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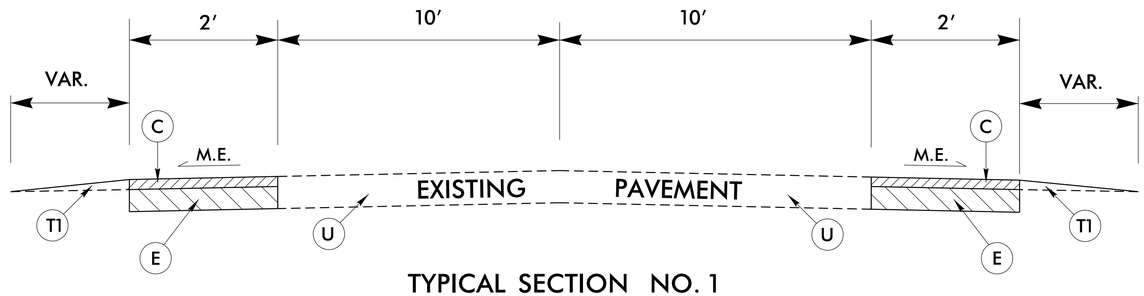
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	2A-1

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

DIVISION DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



TYPICAL SECTION NO. 1

SR 1518 (OLD FOLKSTONE RD.)

MAP NO. 1 – MP 0.00 TO MP 0.54
MAP NO. 2 – MP 0.54 TO MP 0.69 (NO WORK, INCLUDING BRIDGE)
MP 0.54 TO MP 0.77 (ALL DISTURBANCES NEED TO STAY WITHIN THE SHOULDER POINT)
MAP NO. 3 – MP 0.69 TO MP 2.386

SR 1519 (OLD FOLKSTONE RD.)

MAP NO. 5 – MP 2.568 TO MP 2.655 (–EL– STA. 30+96 TO –EL– STA. 35+56)
MAP NO. 7 – MP 2.702 TO MP 2.936 (–EL– STA. 38+02 TO –EL– STA. 50+38)

SR 1519 (COUNTRY CLUB RD.)

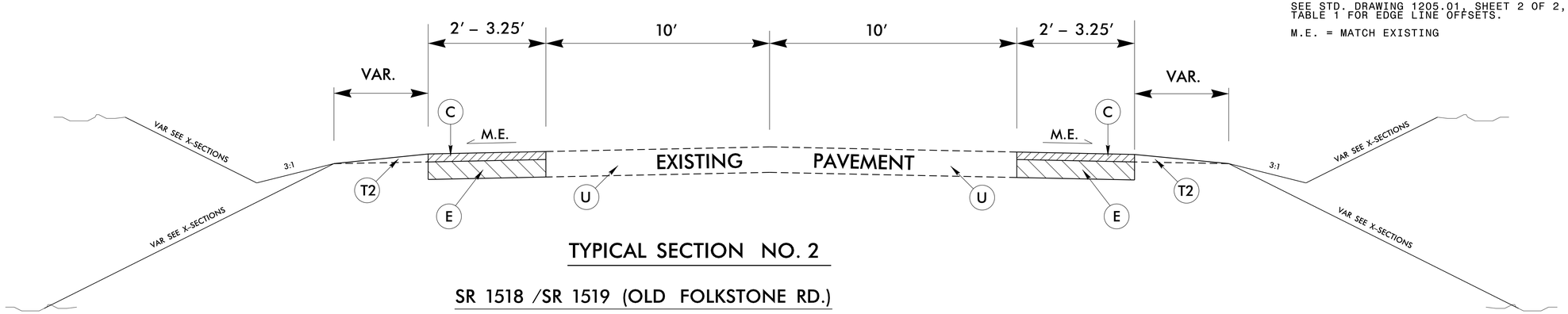
MAP NO. 9 – MP 3.222 TO MP 3.427 (–EL– STA. 65+49 TO –EL– STA. 76+29)

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B IN EACH OF TWO LAYERS AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
E	PROP. APPROX. 5" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ.YD.
T1	EARTH MATERIAL. (SHOULDER RECONSTRUCTION)
T2	EARTH MATERIAL.
U	EXISTING PAVEMENT.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

SEE STD. DRAWING 1205.01, SHEET 2 OF 2, TABLE 1 FOR EDGE LINE OFFSETS.

M.E. = MATCH EXISTING



TYPICAL SECTION NO. 2

SR 1518 /SR 1519 (OLD FOLKSTONE RD.)

MAP NO. 4 – –EL– STA. 21+35 TO –EL– STA. 30+96 (MP 2.386 TO MP 2.568)

SR 1519 (OLD FOLKSTONE RD.)

MAP NO. 6 – –EL– STA. 35+56 TO –EL– STA. 38+02 (MP 2.655 TO MP 2.702)

SR 1519 (OLD FOLKSTONE RD/COUNTRY CLUB RD.)

MAP NO. 8 – –EL– STA. 50+38 TO –EL– STA. 65+49 (MP 2.936 TO MP 3.222)

SR 1519 (COUNTRY CLUB RD.)

MAP NO. 10 – –EL– STA. 76+29 TO –EL– STA. 85+00 (MP 3.427 TO MP 3.592)

REVISIONS

8/17/99

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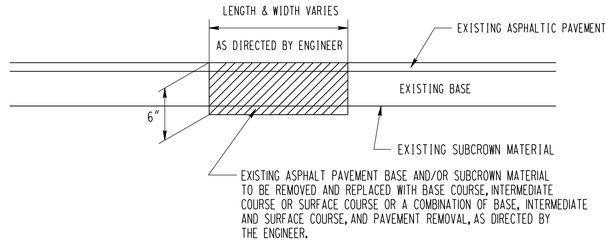
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



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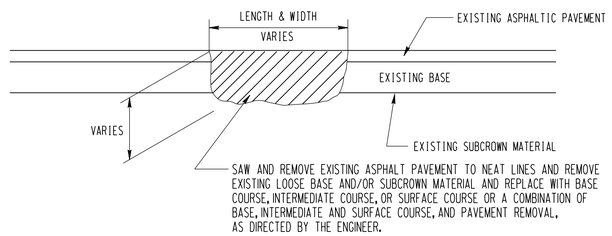

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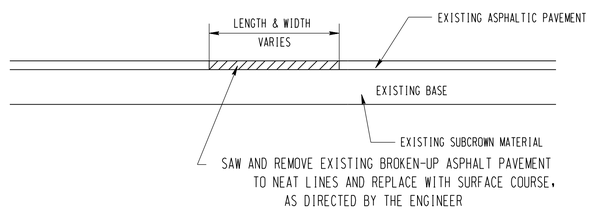

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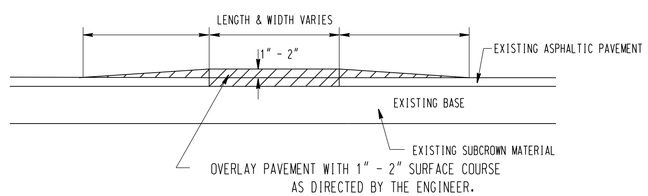

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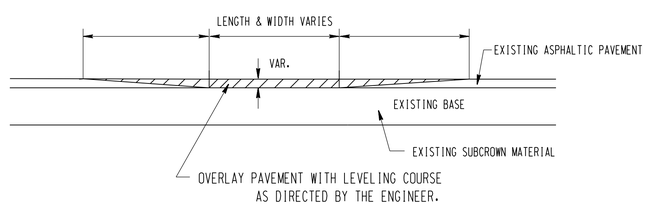
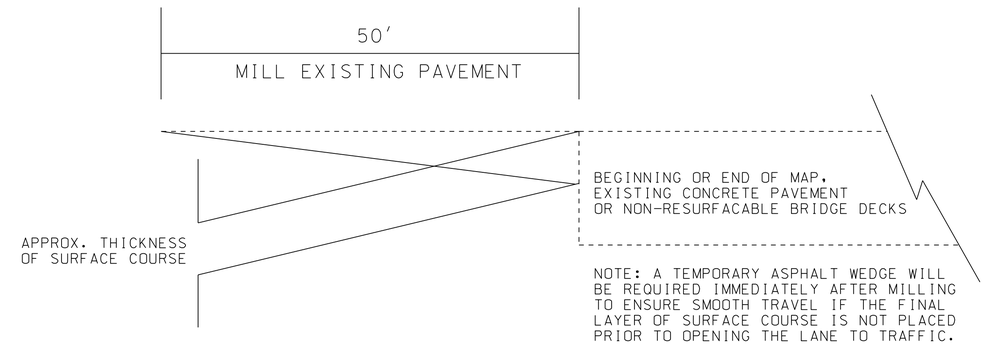
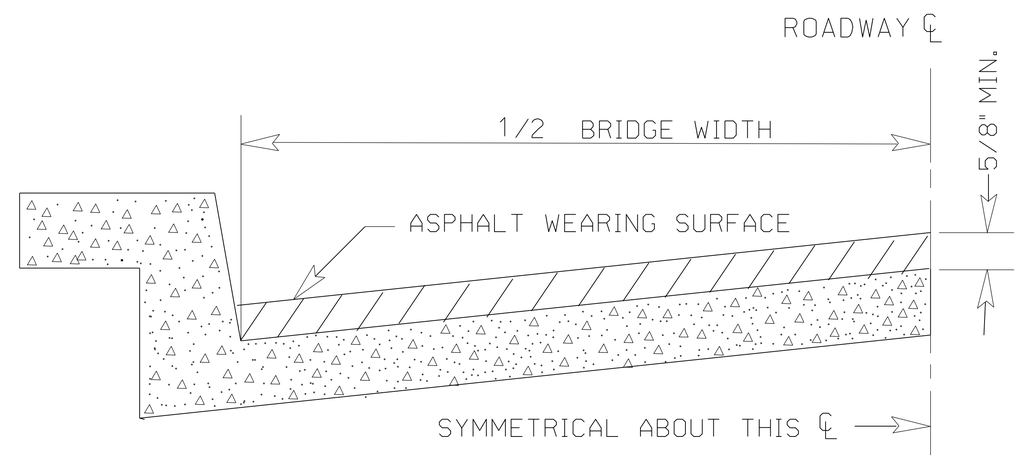


DETAIL NO. 5





BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

REVISIONS

8/8/2006
05-AUG-2006 10:09
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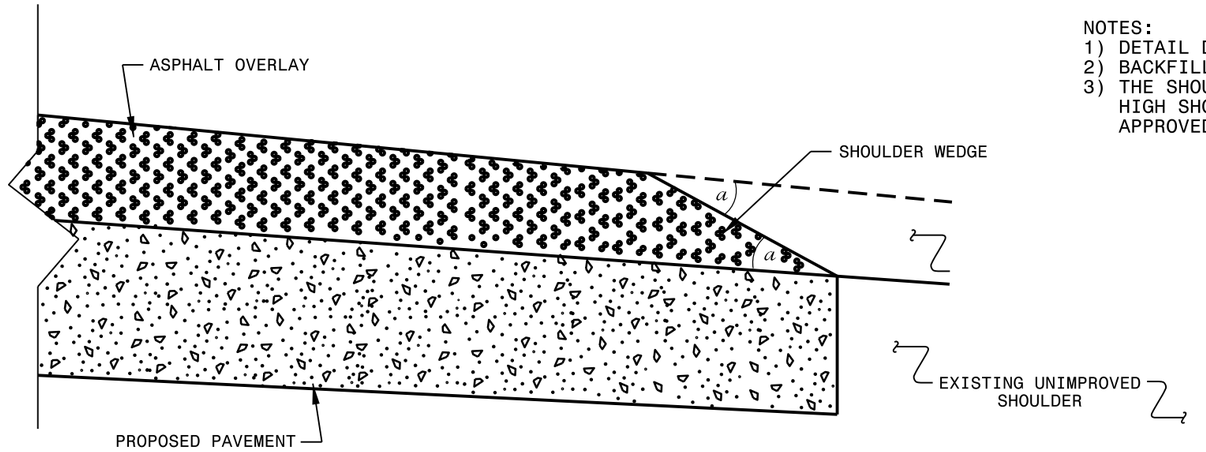
$$$$$$$$DGNDIRNAME$$$$\W-5203L_45333.12_OLD FOLKSTONE 2FT WIDEN\ROADWAY\Proj\W5203L_Plan Sheets\W-5203 L_FOLK_Rdy_PSH 2A-2.dgn

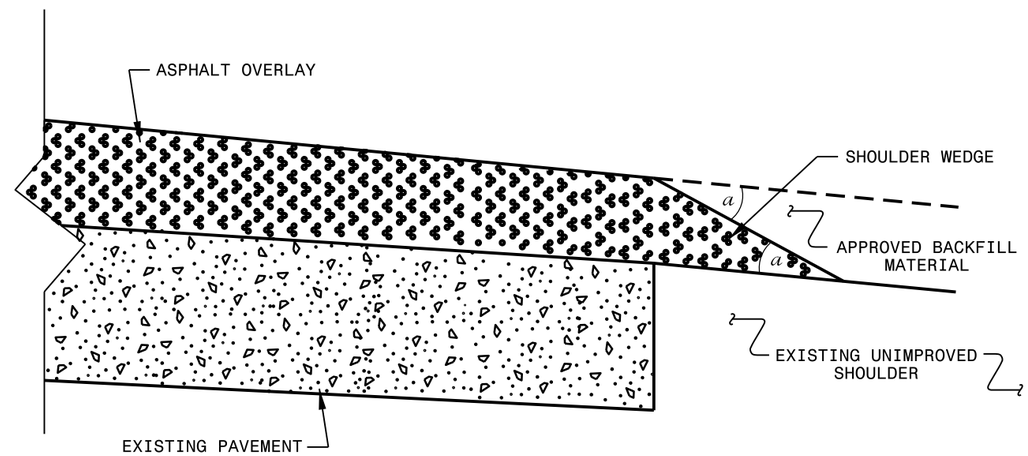
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	2A-3

NOTES:
1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



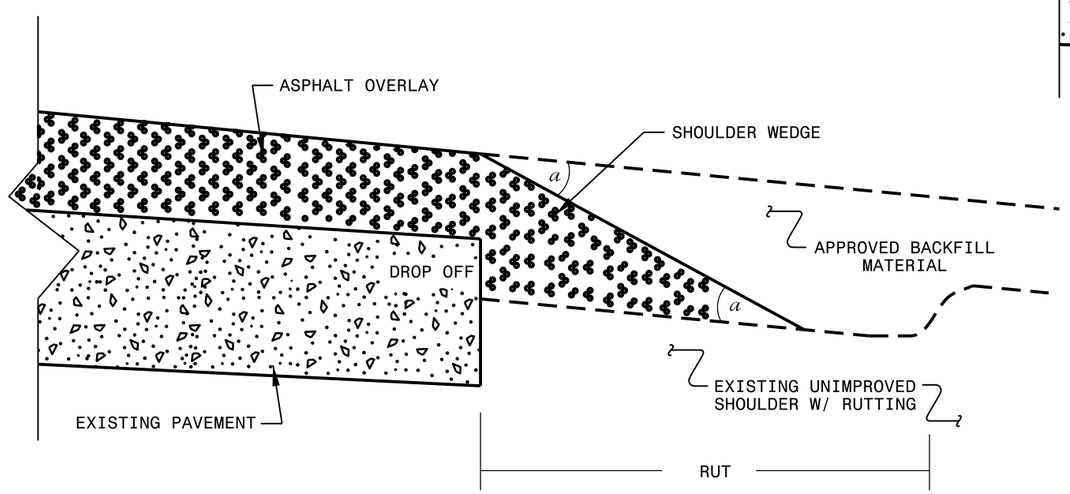
SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

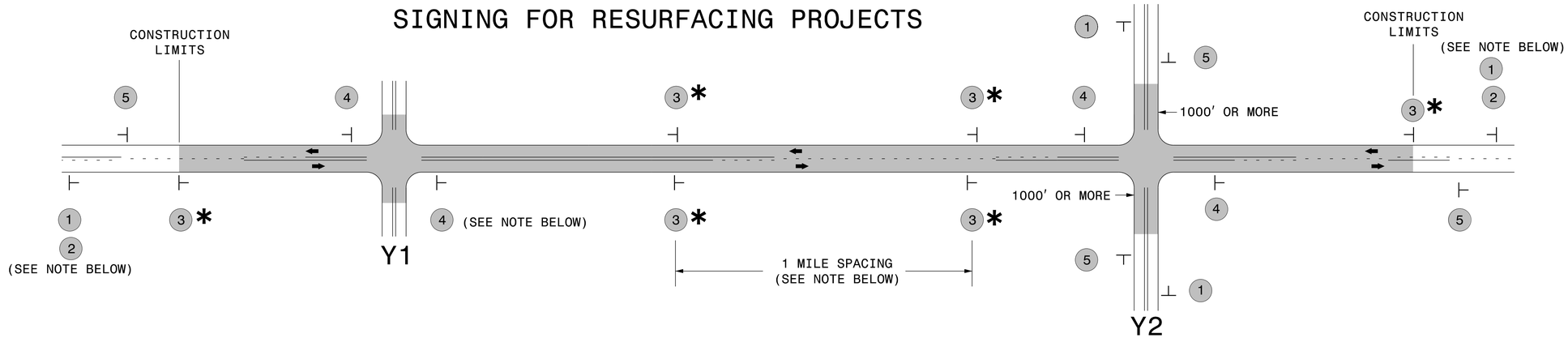
SHOULDER WEDGE DETAILS

ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC.:	$:usr/details/stand/shoulderwedgedetail.dgn		

$$$$$$SYSTIME$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
W-5203L	2B-1

SIGNING FOR RESURFACING PROJECTS



LEGEND

⊢ STATIONARY SIGN

⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	ROAD WORK AHEAD W20-1 48″ X 48″	PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.
2	NEXT XX MILES W7-3aP 24″ X 18″	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)
3 *	LOW/SOFT SHOULDER SP 13107 48″ X 48″	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.
4	ROAD UNDER CONST SP 13106 48″ X 48″	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500′ +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500′ OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.
5	END ROAD WORK G20-2 A 48″ X 24″	PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-Y- LINE SIGNING

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

1) LESS THAN 1000′ OF RESURFACING ALONG -Y- LINE
2) SUBDIVISION ROADS
3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

ROAD WORK AHEAD
W20-1
48″ X 48″

PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A
48″ X 48″

PLACED 250′ IN ADVANCE OF FLAGGER.

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:
STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

6/3/2014
S:\TMU\WZTC\Apps\WorkZoneGeneral\ExternalWebPage\DesRes\Documents\Resurfacing\Resurfacing_AdvWarn_2Ln.dgn
User:rmgarrett

PROJECT NO.	SHEET NO.	TOTAL NO.
W-5203L	3A-1	

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	CONSTRUCTION SURVEYING LS	UNCLASSIFIED EXC. CY	UNDERCUT EXC. CY	BORROW EXC. CY	SELECT GRANULAR MAT. CY	GEOTEXTILE FOR SOIL STABILIZATION SY	FOUND. COND. MAT., MINOR STRS TON	FOUND. COND. GEOTEXTILE SY	15" RC PIPE CULVERTS, CLASS IV LF	18" RC PIPE CULVERTS, CLASS IV LF	24" RC PIPE CULVERTS, CLASS IV LF	30" RC PIPE CULVERTS, CLASS IV LF	PIPE REMOVAL LF	FINE GRADING LS	SHALLOW UNDERCUT CY	CLASS IV SUBGRADE STABILIZATION TON
45333.1.12	Onslow	1	SR 1518/1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	PARENT MAP FROM NC 210 TO SR 1515 (SNEADS FERRY RD.) MP 0.00 TO MP 3.592	1 & 2	2	2WU	NO	NO	0	24	1.00		1,350		1,400	2,900								1	500	950
		"	"	FROM MP 0.00 TO MP 0.54	1	2	2WU	NO	NO	0.54	24		369		285												
TOTAL FOR MAP NO. 1										**0.54**		**1.00**	**369**	**1,350**	**285**	**1,400**	**2,900**								**1**	**500**	**950**
45333.1.12	Onslow	2	SR 1518 (OLD FOLKSTONE ROAD)-NO WORK-BRIDGE	FROM MP 0.54 TO MP 0.69-BRIDGE-NO WORK	1	2	2WU	NO	NO	0.15	24																
TOTAL FOR MAP NO. 2										**0.15**																	
45333.1.12	Onslow	3	SR 1518 (OLD FOLKSTONE ROAD)	FROM MP 0.69 TO MP 2.386	1	2	2WU	NO	NO	1.696	24		1,161		895												
TOTAL FOR MAP NO. 3										**1.696**			**1,161**		**895**												
45333.1.12	Onslow	4	SR 1518/1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 21+35 TO -EL- STA. 30+96 (MP 2.386 TO MP 2.568)	2	2	2WU	NO	NO	0.182	24		415					10.00	30.00		68.00	8.00		16.00			
TOTAL FOR MAP NO. 4										**0.182**			**415**					**10.00**	**30.00**		**68.00**	**8.00**		**16.00**			
45333.1.12	Onslow	5	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.568 TO MP 2.655 (-EL-STA. 30+96 TO -EL- STA. 35+56)	1	2	2WU	NO	NO	0.087	24		60		46												
TOTAL FOR MAP NO. 5										**0.087**			**60**		**46**												
45333.1.12	Onslow	6	SR 1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 35+56 TO -EL- STA. 38+02 (MP 2.655 TO MP 2.702)	2	2	2WU	NO	NO	0.047	24		67		34			10.00	20.00			56.00					
TOTAL FOR MAP NO. 6										**0.047**			**67**		**34**			**10.00**	**20.00**			**56.00**					
45333.1.12	Onslow	7	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.702 TO MP 2.936 (-EL-STA. 38+02 TO -EL- STA. 50+38)	1	2	2WU	NO	NO	0.234	24		160		124												
TOTAL FOR MAP NO. 7										**0.234**			**160**		**124**												
45333.1.12	Onslow	8	SR 1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	FROM -EL- STA. 50+38 TO -EL- STA. 65+49 (MP 2.936 TO MP 3.222)	2	2	2WU	NO	NO	0.286	24		896					30.00	100.00	108.00	68.00	56.00	48.00	199.00			
TOTAL FOR MAP NO. 8										**0.286**			**896**					**30.00**	**100.00**	**108.00**	**68.00**	**56.00**	**48.00**	**199.00**			
45333.1.12	Onslow	9	SR 1519 (COUNTRY CLUB ROAD)	FROM MP 3.222 TO MP 3.427 (-EL-STA. 65+49 TO -EL- STA. 76+29)	1	2	2WU	NO	NO	0.205	24		140		108												
TOTAL FOR MAP NO. 9										**0.205**			**140**		**108**												
45333.1.12	Onslow	10	SR 1519 (COUNTRY CLUB ROAD)	FROM -EL- STA. 76+29 TO -EL- STA. 85+00 (MP 3.427 TO MP 3.592)	2	2	2WU	NO	NO	0.165	24		572					70.00	210.00	36.00	180.00	352.00	52.00	252.00			
TOTAL FOR MAP NO. 10										**0.165**			**572**					**70.00**	**210.00**	**36.00**	**180.00**	**352.00**	**52.00**	**252.00**			
TOTAL FOR PROJ NO. 45333.1.12										**3.592**		**1.00**	**3,840**	**1,350**	**1,492**	**1,400**	**2,900**	**120.00**	**360.00**	**144.00**	**316.00**	**472.00**	**100.00**	**467.00**	**1**	**500**	**950**
GRAND TOTAL										**3.592**		**1.00**	**3,840**	**1,350**	**1,492**	**1,400**	**2,900**	**120.00**	**360.00**	**144.00**	**316.00**	**472.00**	**100.00**	**467.00**	**1**	**500**	**950**

PROJECT NO.	SHEET NO.	TOTAL NO.
W-5203L	3A-2	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	INC. STONE BASE TONS	SHOULDER RECONST. SMI	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT (FULL DEPTH) TONS	6" PERFORATED SUBDRAIN PIPE LF	PIPE COLLARS CY	MASONRY DRAINAGE STRUCT EA	FRAME W/2GRTS 840.24 EA	2'-6" CONCRETE CURB & GUTTER LF	6" CONCRETE DRIVEWAYS SY	INC. CONC SY	REMOVE EXIST CURB & GUTTER LF	ADJ. OF METER OR VALVE BOX EA	RIP RAP, CLASS B TON	GEOTEXTILE FOR DRAINAGE SY	TEMP. SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS A TON	STONE FOR EC CLASS B TON
45333.1.12	Onslow	1	SR 1518/1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	PARENT MAP FROM NC 210 TO SR 1515 (SNEADS FERRY RD.) MP 0.00 TO MP 3.592	1 & 2	2	2WU	NO						50	2,000.00				16		69	83	7				360	
		"	"	FROM MP 0.00 TO MP 0.54	1	2	2WU	NO	40	1.08	379	235	31													54		14
TOTAL FOR MAP NO. 1									**40**	**1.08**	**379**	**235**	**31**	**50**	**2,000.00**				**16**		**69**	**83**	**7**			**54**	**360**	**14**
45333.1.12	Onslow	2	SR 1518 (OLD FOLKSTONE ROAD)-NO WORK-BRIDGE	FROM MP 0.54 TO MP 0.69-BRIDGE-NO WORK	1	2	2WU	NO																				
TOTAL FOR MAP NO. 2																												
45333.1.12	Onslow	3	SR 1518 (OLD FOLKSTONE ROAD)	FROM MP 0.69 TO MP 2.386	1	2	2WU	NO	150	3.39	1,191	735	96							80						170		43
TOTAL FOR MAP NO. 3									**150**	**3.39**	**1,191**	**735**	**96**							**80**						**170**		**43**
45333.1.12	Onslow	4	SR 1518/1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 21+35 TO -EL- STA. 30+96 (MP 2.386 TO MP 2.568)	2	2	2WU	NO			168	103	14			1.00								3	10.00	248		66
TOTAL FOR MAP NO. 4											**168**	**103**	**14**			**1.00**								**3**	**10.00**	**248**		**66**
45333.1.12	Onslow	5	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.568 TO MP 2.655 (-EL-STA. 30+96 TO -EL- STA. 35+56)	1	2	2WU	NO		0.17	61	39	5							20						10		3
TOTAL FOR MAP NO. 5										**0.17**	**61**	**39**	**5**							**20**						**10**		**3**
45333.1.12	Onslow	6	SR 1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 35+56 TO -EL- STA. 38+02 (MP 2.655 TO MP 2.702)	2	2	2WU	NO			35	22	3			0.55				10						60		12
TOTAL FOR MAP NO. 6											**35**	**22**	**3**			**0.55**				**10**						**60**		**12**
45333.1.12	Onslow	7	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.702 TO MP 2.936 (-EL-STA. 38+02 TO -EL- STA. 50+38)	1	2	2WU	NO	10	0.47	165	101	13							10						23		6
TOTAL FOR MAP NO. 7									**10**	**0.47**	**165**	**101**	**13**							**10**						**23**		**6**
45333.1.12	Onslow	8	SR 1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	FROM -EL- STA. 50+38 TO -EL- STA. 65+49 (MP 2.936 TO MP 3.222)	2	2	2WU	NO	70		246	154	20			0.55								8	21.00	352		64
TOTAL FOR MAP NO. 8									**70**		**246**	**154**	**20**			**0.55**								**8**	**21.00**	**352**		**64**
45333.1.12	Onslow	9	SR 1519 (COUNTRY CLUB ROAD)	FROM MP 3.222 TO MP 3.427 (-EL-STA. 65+49 TO -EL- STA. 76+29)	1	2	2WU	NO	50	0.41	37	22	3							70						21		25
TOTAL FOR MAP NO. 9									**50**	**0.41**	**37**	**22**	**3**							**70**						**21**		**25**
45333.1.12	Onslow	10	SR 1519 (COUNTRY CLUB ROAD)	FROM -EL- STA. 76+29 TO -EL- STA. 85+00 (MP 3.427 TO MP 3.592)	2	2	2WU	NO	30		143	88	12				5.00	5.00		30				8	21.00		40	76
TOTAL FOR MAP NO. 10									**30**		**143**	**88**	**12**				**5.00**	**5.00**		**30**				**8**	**21.00**		**40**	**76**
TOTAL FOR PROJ NO. 45333.1.12									**350**	**5.52**	**2,425**	**1,499**	**197**	**50**	**2,000.00**	**2.10**	**5.00**	**5.00**	**16**	**220**	**69**	**83**	**7**	**19**	**52.00**	**938**	**400**	**309**
GRAND TOTAL									**350**	**5.52**	**2,425**	**1,499**	**197**	**50**	**2,000.00**	**2.10**	**5.00**	**5.00**	**16**	**220**	**69**	**83**	**7**	**19**	**52.00**	**938**	**400**	**309**

PROJECT NO.	SHEET NO.	TOTAL NO.
W-5203L	3A-3	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	SEDIMENT CONTROL STONE TON	TEMP. MULCHING ACR	SEED FOR TEMP. SEEDING LBS	FERTILIZER FOR TEMP. SEEDING TON	TEMPORARY SLOPE DRAINS LF	SAFETY FENCE LF	SILT EXCAVATION CY	MATTING FOR EROSION CONTROL SY	COIR FIBER MAT SY	1/4" HARDWARE CLOTH LF	WATTLE LF	POLYACRYLAMIDE (PAM) LB	SEED & MULCHING AC	MOWING ACR	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON	SEED FOR SUPPLEMENTAL SEEDING LB	FERTILIZER TOPDRESSING TON	SPECIALIZED HAND MOWING MHR
45333.1.12	Onslow	1	SR 1518/1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	PARENT MAP FROM NC 210 TO SR 1515 (SNEADS FERRY RD.) MP 0.00 TO MP 3.592	1 & 2	2	2WU	NO						120				100									
		"	"	FROM MP 0.00 TO MP 0.54	1	2	2WU	NO	14	1.00	100	0.50			20	10		27	10		1.00	0.50	27	1.14		2.00	1.00
TOTAL FOR MAP NO. 1									**14**	**1.00**	**100**	**0.50**		**120**	**20**	**10**		**127**	**10**		**1.00**	**0.50**	**27**	**1.14**		**2.00**	**1.00**
45333.1.12	Onslow	2	SR 1518 (OLD FOLKSTONE ROAD)-NO WORK-BRIDGE	FROM MP 0.54 TO MP 0.69-BRIDGE-NO WORK	1	2	2WU	NO																			
TOTAL FOR MAP NO. 2																											
45333.1.12	Onslow	3	SR 1518 (OLD FOLKSTONE ROAD)	FROM MP 0.69 TO MP 2.386	1	2	2WU	NO	43	2.50	500	3.00			50	20		85	30		2.50	1.25	85	0.86		3.00	1.00
TOTAL FOR MAP NO. 3									**43**	**2.50**	**500**	**3.00**			**50**	**20**		**85**	**30**		**2.50**	**1.25**	**85**	**0.86**		**3.00**	**1.00**
45333.1.12	Onslow	4	SR 1518/1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 21+35 TO -EL- STA. 30+96 (MP 2.386 TO MP 2.568)	2	2	2WU	NO	34	0.31	72	0.36	48		15		10		112	12	0.54	0.72	12	0.05	24.00	0.66	2.40
TOTAL FOR MAP NO. 4									**34**	**0.31**	**72**	**0.36**	**48**		**15**		**10**		**112**	**12**	**0.54**	**0.72**	**12**	**0.05**	**24.00**	**0.66**	**2.40**
45333.1.12	Onslow	5	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.568 TO MP 2.655 (-EL-STA. 30+96 TO -EL- STA. 35+56)	1	2	2WU	NO	3	0.13	10	0.03			20	10		4	10		0.13	0.65	4	0.02		0.30	1.00
TOTAL FOR MAP NO. 5									**3**	**0.13**	**10**	**0.03**			**20**	**10**		**4**	**10**		**0.13**	**0.65**	**4**	**0.02**		**0.30**	**1.00**
45333.1.12	Onslow	6	SR 1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 35+56 TO -EL- STA. 38+02 (MP 2.655 TO MP 2.702)	2	2	2WU	NO	8	0.06	12	0.06	8	60	162		330		58	6	0.10	0.12	2	0.02	4.00	0.11	0.40
TOTAL FOR MAP NO. 6									**8**	**0.06**	**12**	**0.06**	**8**	**60**	**162**		**330**		**58**	**6**	**0.10**	**0.12**	**2**	**0.02**	**4.00**	**0.11**	**0.40**
45333.1.12	Onslow	7	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.702 TO MP 2.936 (-EL-STA. 38+02 TO -EL- STA. 50+38)	1	2	2WU	NO	6	0.34	20	0.07			10	10		12	10		0.34	0.17	12	0.06		0.50	1.00
TOTAL FOR MAP NO. 7									**6**	**0.34**	**20**	**0.07**			**10**	**10**		**12**	**10**		**0.34**	**0.17**	**12**	**0.06**		**0.50**	**1.00**
45333.1.12	Onslow	8	SR 1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	FROM -EL- STA. 50+38 TO -EL- STA. 65+49 (MP 2.936 TO MP 3.222)	2	2	2WU	NO	36	0.57	129	0.65	86	33	173		25		112	6	0.98	1.29	22	0.11	43.00	1.18	4.30
TOTAL FOR MAP NO. 8									**36**	**0.57**	**129**	**0.65**	**86**	**33**	**173**		**25**		**112**	**6**	**0.98**	**1.29**	**22**	**0.11**	**43.00**	**1.18**	**4.30**
45333.1.12	Onslow	9	SR 1519 (COUNTRY CLUB ROAD)	FROM MP 3.222 TO MP 3.427 (-EL-STA. 65+49 TO -EL- STA. 76+29)	1	2	2WU	NO	5	0.30	20	0.10			10	10		10	10		0.30	0.15	10	0.05			1.00
TOTAL FOR MAP NO. 9									**5**	**0.30**	**20**	**0.10**			**10**	**10**		**10**	**10**		**0.30**	**0.15**	**10**	**0.05**			**1.00**
45333.1.12	Onslow	10	SR 1519 (COUNTRY CLUB ROAD)	FROM -EL- STA. 76+29 TO -EL- STA. 85+00 (MP 3.427 TO MP 3.592)	2	2	2WU	NO	142	0.36	84	0.42	56		210	505	40		68	6	0.62	0.84	14	0.07	28.00	0.77	2.80
TOTAL FOR MAP NO. 10									**142**	**0.36**	**84**	**0.42**	**56**		**210**	**505**	**40**		**68**	**6**	**0.62**	**0.84**	**14**	**0.07**	**28.00**	**0.77**	**2.80**
TOTAL FOR PROJ NO. 45333.1.12									**291**	**5.57**	**947**	**5.19**	**198**	**213**	**670**	**565**	**405**	**238**	**420**	**30**	**6.51**	**5.69**	**188**	**2.38**	**99.00**	**8.52**	**14.90**
GRAND TOTAL									**291**	**5.57**	**947**	**5.19**	**198**	**213**	**670**	**565**	**405**	**238**	**420**	**30**	**6.51**	**5.69**	**188**	**2.38**	**99.00**	**8.52**	**14.90**

PROJECT NO.	SHEET NO.	TOTAL NO.
W-5203L	3A-4	

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	RESPONSE FOR EROSION CONTROL
NO		NO			NO				EA
45333.1.12	Onslow	1	SR 1518/1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	PARENT MAP FROM NC 210 TO SR 1515 (SNEADS FERRY RD.) MP 0.00 TO MP 3.592	1 & 2	2	2WU	NO	40
		"	"	FROM MP 0.00 TO MP 0.54	1	2	2WU	NO	
TOTAL FOR MAP NO. 1									**40**
45333.1.12	Onslow	2	SR 1518 (OLD FOLKSTONE ROAD)-NO WORK-BRIDGE	FROM MP 0.54 TO MP 0.69-BRIDGE-NO WORK	1	2	2WU	NO	
TOTAL FOR MAP NO. 2									
45333.1.12	Onslow	3	SR 1518 (OLD FOLKSTONE ROAD)	FROM MP 0.69 TO MP 2.386	1	2	2WU	NO	
TOTAL FOR MAP NO. 3									
45333.1.12	Onslow	4	SR 1518/1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 21+35 TO -EL- STA. 30+96 (MP 2.386 TO MP 2.568)	2	2	2WU	NO	
TOTAL FOR MAP NO. 4									
45333.1.12	Onslow	5	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.568 TO MP 2.655 (-EL- STA. 30+96 TO -EL- STA. 35+56)	1	2	2WU	NO	
TOTAL FOR MAP NO. 5									
45333.1.12	Onslow	6	SR 1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 35+56 TO -EL- STA. 38+02 (MP 2.655 TO MP 2.702)	2	2	2WU	NO	
TOTAL FOR MAP NO. 6									
45333.1.12	Onslow	7	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.702 TO MP 2.936 (-EL- STA. 38+02 TO -EL- STA. 50+38)	1	2	2WU	NO	
TOTAL FOR MAP NO. 7									
45333.1.12	Onslow	8	SR 1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	FROM -EL- STA. 50+38 TO -EL- STA. 65+49 (MP 2.936 TO MP 3.222)	2	2	2WU	NO	
TOTAL FOR MAP NO. 8									
45333.1.12	Onslow	9	SR 1519 (COUNTRY CLUB ROAD)	FROM MP 3.222 TO MP 3.427 (-EL- STA. 65+49 TO -EL- STA. 76+29)	1	2	2WU	NO	
TOTAL FOR MAP NO. 9									
45333.1.12	Onslow	10	SR 1519 (COUNTRY CLUB ROAD)	FROM -EL- STA. 76+29 TO -EL- STA. 85+00 (MP 3.427 TO MP 3.592)	2	2	2WU	NO	
TOTAL FOR MAP NO. 10									
TOTAL FOR PROJ NO. 45333.1.12									**40**
GRAND TOTAL									**40**

PROJECT NO.	SHEET NO.	TOTAL NO.
W-5203L	3A-5	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4510000000-N	4686000000-E		4710000000-E	4725000000-E				4850000000-E	4891000000-E	4905000000-N	
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	24" X 120 M WHITE THERMO	THERMO RT ARROW 90 M	THERMO LT ARROW 90 M	THERMO STR ARROW 90 M	THERMO STR & LT ARROW 90 M	4" LINE REMOVAL	THERMOPLASTIC PROFILED PAVEMENT MARKING LINES, 4" WHITE	SNOW PLOWABLE MARKERS (Y/Y)	SNOW PLOWABLE MARKERS (C/R)
NO		NO			NO					SF	LS	HR	LF	LF	LF	EA	EA	EA	EA	LF	LF	EA	EA
45333.1.12	Onslow	1	SR 1518/1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	PARENT MAP FROM NC 210 TO SR 1515 (SNEADS FERRY RD.) MP 0.00 TO MP 3.592	1 & 2	2	2WU	0	24	416	1	40	100	100	50	1	1	1	1	500	500	10	10
		"	"	FROM MP 0.00 TO MP 0.54	1	2	2WU	0.54	24												5,702		
TOTAL FOR MAP NO. 1								**0.54**		**416**	**1**	**40**	**100**	**100**	**50**	**1**	**1**	**1**	**1**	**500**	**6,202**	**10**	**10**
45333.1.12	Onslow	2	SR 1518 (OLD FOLKSTONE ROAD)-NO WORK-BRIDGE	FROM MP 0.54 TO MP 0.69-BRIDGE-NO WORK	1	2	2WU	0.15	24														
TOTAL FOR MAP NO. 2								**0.15**															
45333.1.12	Onslow	3	SR 1518 (OLD FOLKSTONE ROAD)	FROM MP 0.69 TO MP 2.386	1	2	2WU	1.696	24												17,910		
TOTAL FOR MAP NO. 3								**1.696**													**17,910**		
45333.1.12	Onslow	4	SR 1518/1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 21+35 TO -EL- STA. 30+96 (MP 2.386 TO MP 2.568)	2	2	2WU	0.182	24												1,922		
TOTAL FOR MAP NO. 4								**0.182**													**1,922**		
45333.1.12	Onslow	5	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.568 TO MP 2.655 (-EL- STA. 30+96 TO -EL- STA. 35+56)	1	2	2WU	0.087	24												919		
TOTAL FOR MAP NO. 5								**0.087**													**919**		
45333.1.12	Onslow	6	SR 1519 (OLD FOLKSTONE ROAD)	FROM -EL- STA. 35+56 TO -EL- STA. 38+02 (MP 2.655 TO MP 2.702)	2	2	2WU	0.047	24												496		
TOTAL FOR MAP NO. 6								**0.047**													**496**		
45333.1.12	Onslow	7	SR 1519 (OLD FOLKSTONE ROAD)	FROM MP 2.702 TO MP 2.936 (-EL- STA. 38+02 TO -EL- STA. 50+38)	1	2	2WU	0.234	24												2,471		
TOTAL FOR MAP NO. 7								**0.234**													**2,471**		
45333.1.12	Onslow	8	SR 1519 (OLD FOLKSTONE ROAD/COUNTRY CLUB ROAD)	FROM -EL- STA. 50+38 TO -EL- STA. 65+49 (MP 2.936 TO MP 3.222)	2	2	2WU	0.286	24												3,020		
TOTAL FOR MAP NO. 8								**0.286**													**3,020**		
45333.1.12	Onslow	9	SR 1519 (COUNTRY CLUB ROAD)	FROM MP 3.222 TO MP 3.427 (-EL- STA. 65+49 TO -EL- STA. 76+29)	1	2	2WU	0.205	24												2,165		
TOTAL FOR MAP NO. 9								**0.205**													**2,165**		
45333.1.12	Onslow	10	SR 1519 (COUNTRY CLUB ROAD)	FROM -EL- STA. 76+29 TO -EL- STA. 85+00 (MP 3.427 TO MP 3.592)	2	2	2WU	0.165	24												1,742		
TOTAL FOR MAP NO. 10								**0.165**													**1,742**		
TOTAL FOR PROJ NO. 45333.1.12								**3.592**		**416**	**1**	**40**	**100**	**100**	**50**	**1**	**1**	**1**	**1**	**500**	**36,847**	**10**	**10**
													200			**4**						**20**	
GRAND TOTAL								**3.592**		**416**	**1**	**40**	**100**	**100**	**50**	**1**	**1**	**1**	**1**	**500**	**36,847**	**10**	**10**
													200			**4**						**20**	

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	3B-1

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV. (C.Y.)	EMBANK. +25% (C.Y.)	BORROW (C.Y.)	SUITABLE WASTE (C.Y.)
MP 0.00	MP 0.54	369	654	285	
MP 0.54	MP 0.69	–		–	
MP 0.69	MP 2.386	1161	2056	895	
–EL– 21+35 (MP 2.386)	–EL– 30+96 (MP 2.568)	415	295		120
–EL– 30+96 (MP 2.568)	–EL– 35+56 (MP 2.655)	60	106	46	
–EL– 35+56 (MP 2.655)	–EL– 38+02 (MP 2.702)	67	101	34	
–EL– 38+02 (MP 2.702)	–EL– 50+38 (MP 2.936)	160	284	124	
–EL– 50+38 (MP 2.936)	–EL– 65+49 (MP 3.222)	896	694		202
–EL– 65+49 (MP 3.222)	–EL– 76+29 (MP 3.427)	140	248	108	
–EL– 76+29 (MP 3.427)	–EL– 85+00 MP 3.592)	572	366		206
PROJECT TOTALS:		3840	4804	1492	528
				–528	
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT:				48	
GRAND TOTALS:		3840	4804	1012	–528
SAY:		3840	4850	1050	–528

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COMPUTED BY: JLM DATE: 2/8/2016

CHECKED BY: DATE:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5203L	3D-1

D3CAD2667D3

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE SIZE 12"	15"	18"	24"	30"	36"	42"	48"	THICKNESS OR GAUGE .064	.064	.064	.064	.079	.079	.109	.109
-EL-																																			
27+85	LT	401		26.40																															
		401	402		26.40	26.00																													
36+63	LT	501		24.97																															
		501	502		24.97	24.47																													
36+57	RT	503		23.90																															
		503	504																																
50+40	RT	601		22.70																															
		601	602		22.70	22.60																													
64+48	LT	603		23.70																															
		603	604		23.70	23.20																													
64+41	RT	615		23.20																															
		615	616		23.20	23.20																													
79+35	RT	801		24.80																															
		801	802		24.80	24.60																													
79+75	RT	802		27.30																															
		802	803		24.60	24.50																													
80+25	RT	803		27.20																															
		803	804		24.50	24.30																													
80+80	RT	804		27.00																															
		804	805		24.30	24.00																													
81+65	RT	805		26.80																															
		805	806		24.00	23.40																													
82+50	RT	806		26.60																															
		806	808		23.40	23.30																													
82+60	RT	807		24.80																															
		807	808		24.80	24.20																													
27+91	LT	410		26.40																															
27+93	LT	411		26.40																															
		410	411		26.40	26.40																													
30+10	RT	405		25.80																															
30+02	RT	406		25.80																															
		405	406		25.80	25.80																													
26+57	LT	409																																	
58+04	LT	605																																	
58+77	LT	606																																	
60+67	LT	607																																	
62+38	LT	608																																	
62+78	RT	609																																	
64+24	RT	610																																	
76+37	RT	705																																	
78+07	RT	706																																	
78+48	RT	707																																	
76+89	LT	708																																	
77+35	LT	709																																	
78+61	LT	710																																	
83+57	LT	809																																	
82+15	LT	810																																	
SHEET TOTALS																																			

| STATION | R.C. PIPE CLASS III SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV SIZE 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS V) | RC PIPE CULVERTS, CONTRACTOR DESIGN | RC PIPE CULVERTS, CONTRACTOR DESIGN | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0') | LIN. FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION DROP INLET | CATCH BASIN | O.T.C.B STD. 840.04 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | GRATE WITH FRAME, DRIVEWAY DROP INLET | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | T.B.D.I. STD. 480.35 | 36" WELDED STEEL PIPE (TRENCHLESS) (LF) | M.H. FRAME AND COVER STD. 840.54 | G.D.I. (N.S. SAG) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | T.B.J.B. STD. 840.34 | BERM DITCH OUTLET | ENERGY DISSAPATOR | SIDE DRAIN PIPE ELBOWS NO. & SIZE | SIDE DRAIN PIPE ELBOWS NO. & SIZE | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | CONC. COLLARS CL. 'B' C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

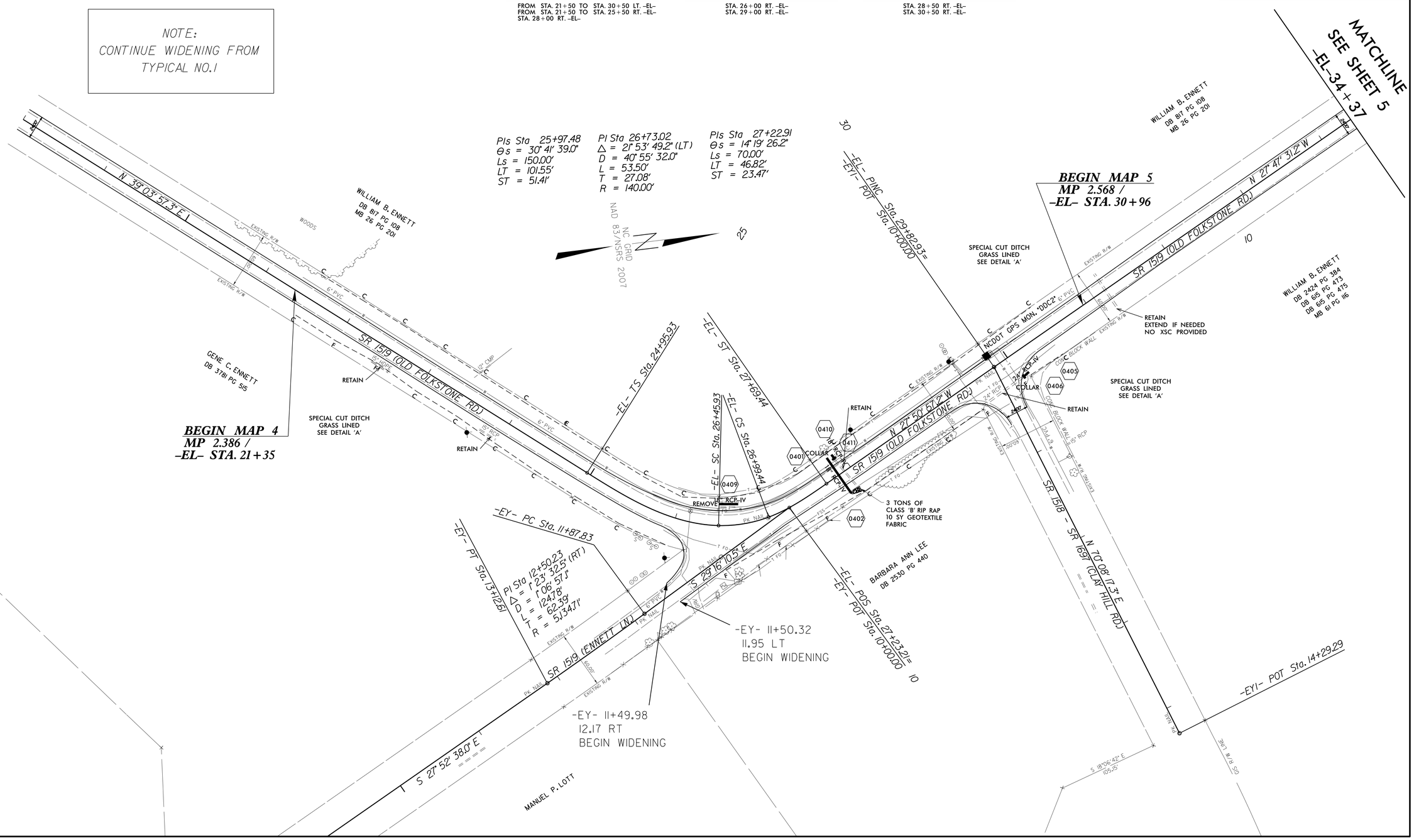
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	4

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 039745 ENGINEER Jennifer Lyle Moore

DIVISION DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PROJECT REFERENCE NO.	SHEET NO.
W-5203L	5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

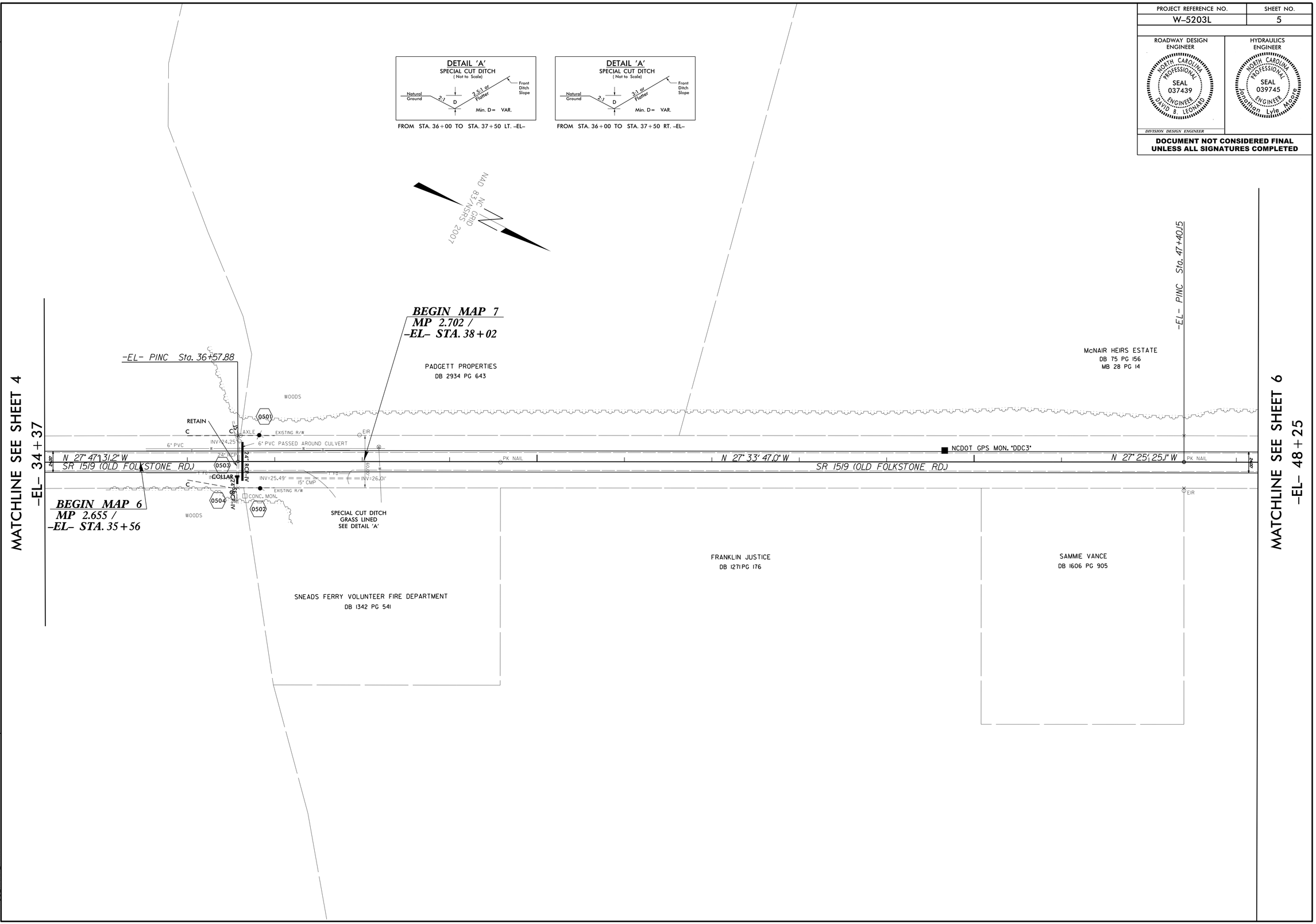
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 039745 ENGINEER Jonathan Lyle Moore

DIVISION DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

8/17/99



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PROJECT REFERENCE NO.	SHEET NO.
W-5203L	6

ROADWAY DESIGN ENGINEER

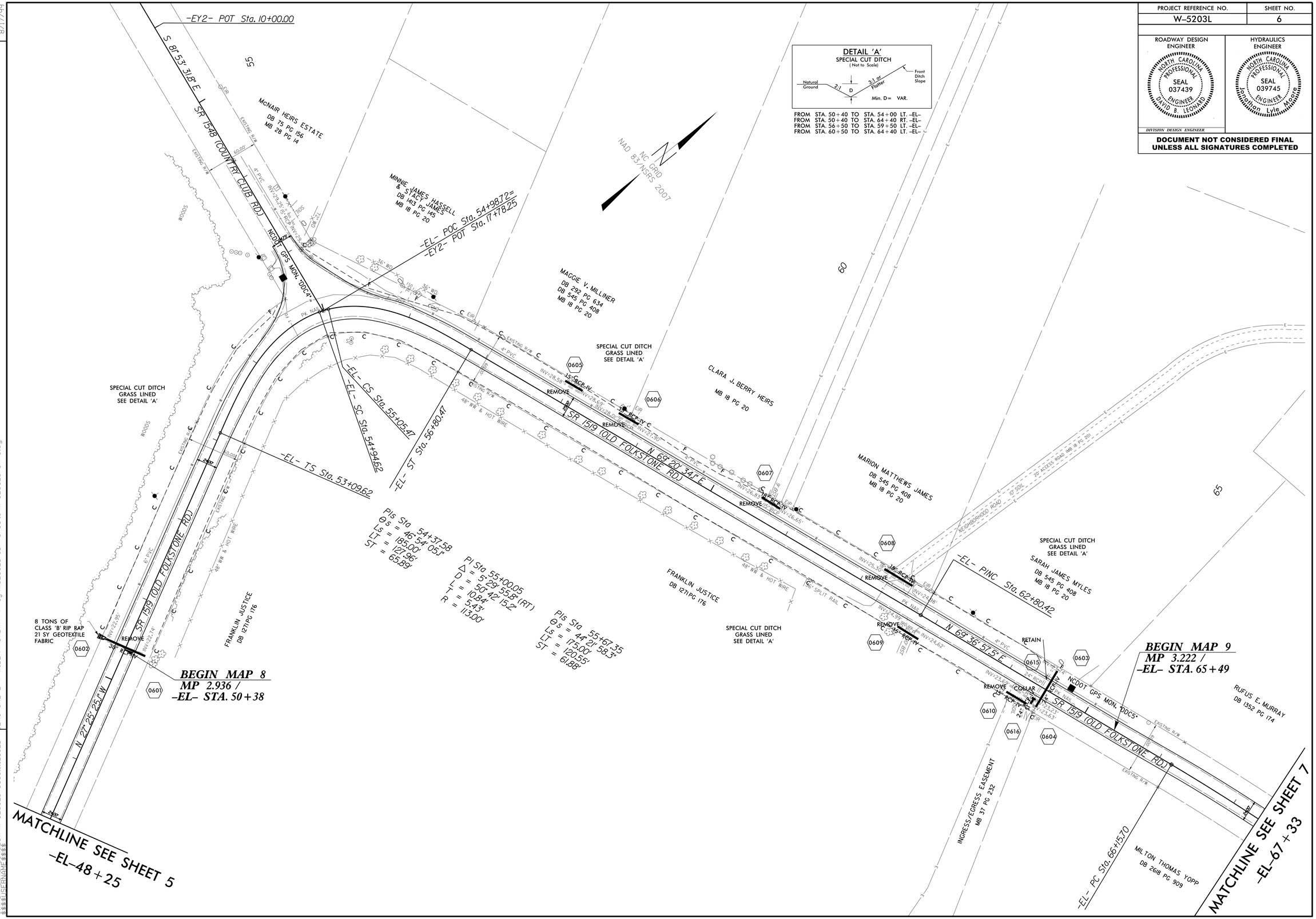
NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 039745 ENGINEER Jonathan Lyle Moore

DIVISION DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DETAIL 'A'

SPECIAL CUT DITCH

(Not to Scale)

Natural Ground — 2:1 — D — 3:1 or Flatter — Front Ditch Slope

Min. D = VAR.

FROM STA. 50+40 TO STA. 54+00 LT. -EL-
FROM STA. 50+40 TO STA. 64+40 RT. -EL-
FROM STA. 56+50 TO STA. 59+50 LT. -EL-
FROM STA. 60+50 TO STA. 64+40 LT. -EL-

REVISIONS

8/17/99

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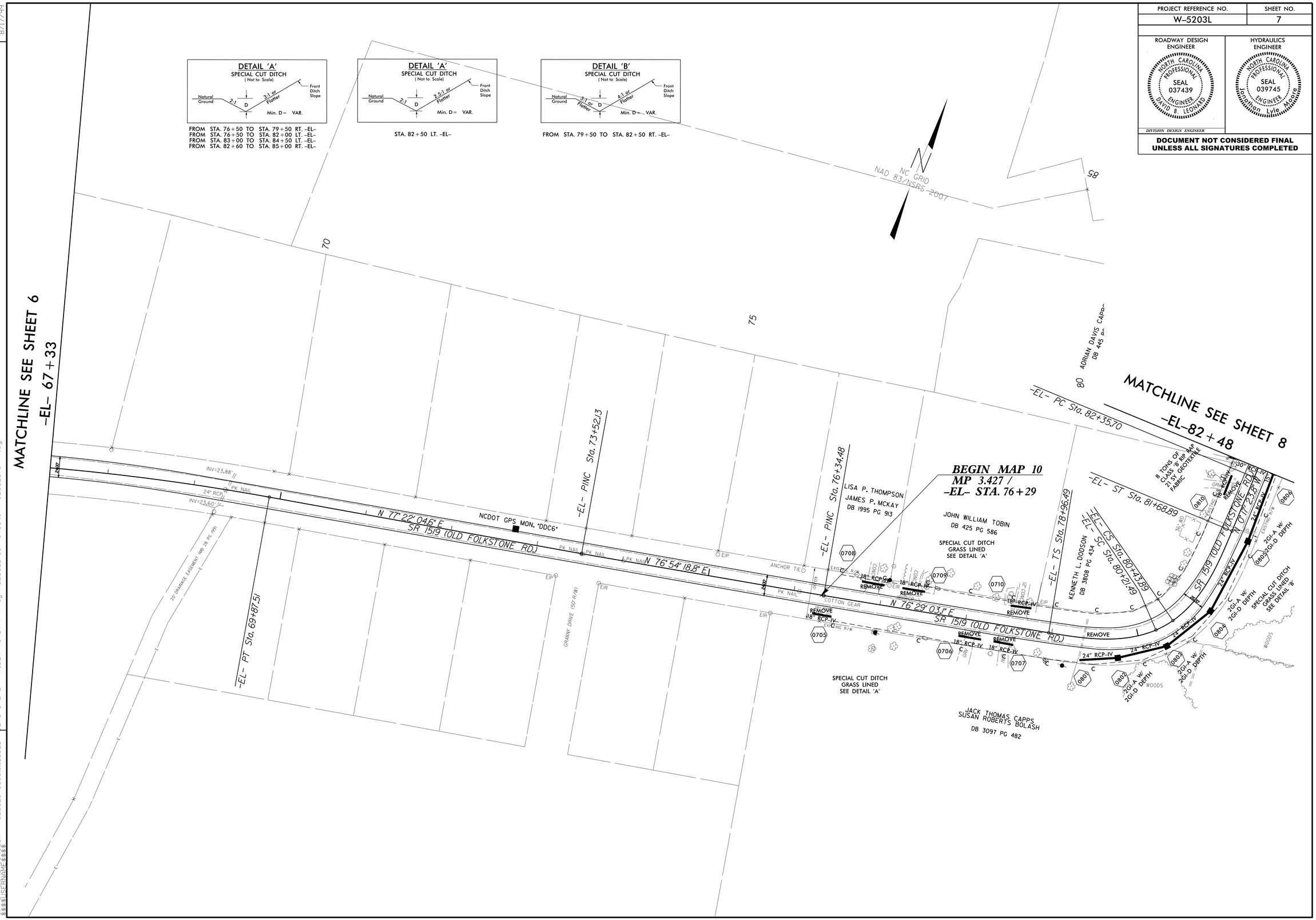
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	7

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 039745 ENGINEER Jonathan Lyle Moore

DIVISION DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
W-5203L	8

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037439 ENGINEER DAVID B. LEONARD

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 039745 ENGINEER Jonathan Lyle Moore

DIVISION DESIGN ENGINEER

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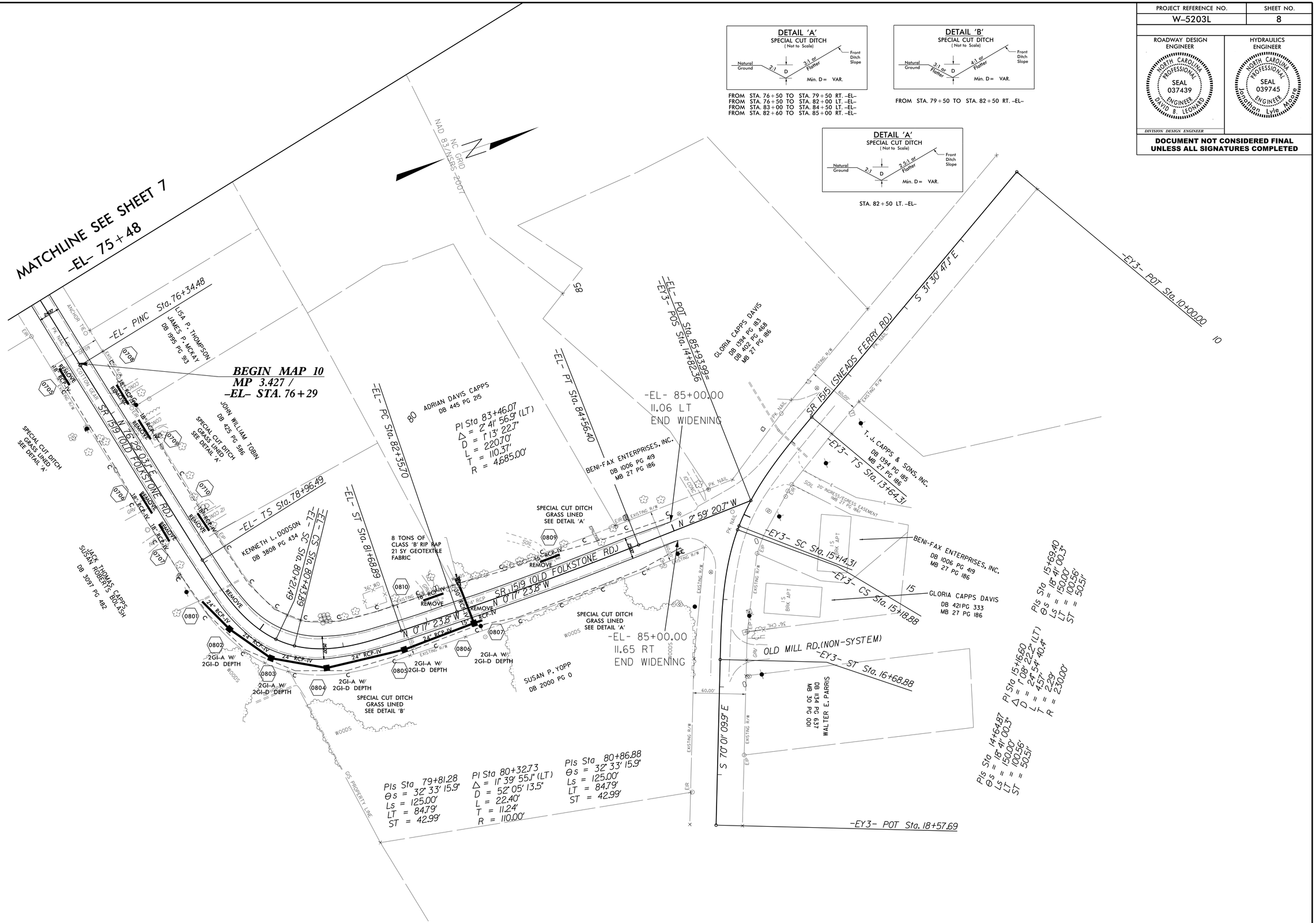

REVISIONS

8/17/99

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PROJECT: W-5203L

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.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5203L	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45333.1.12		CONST.

ONSLOW COUNTY

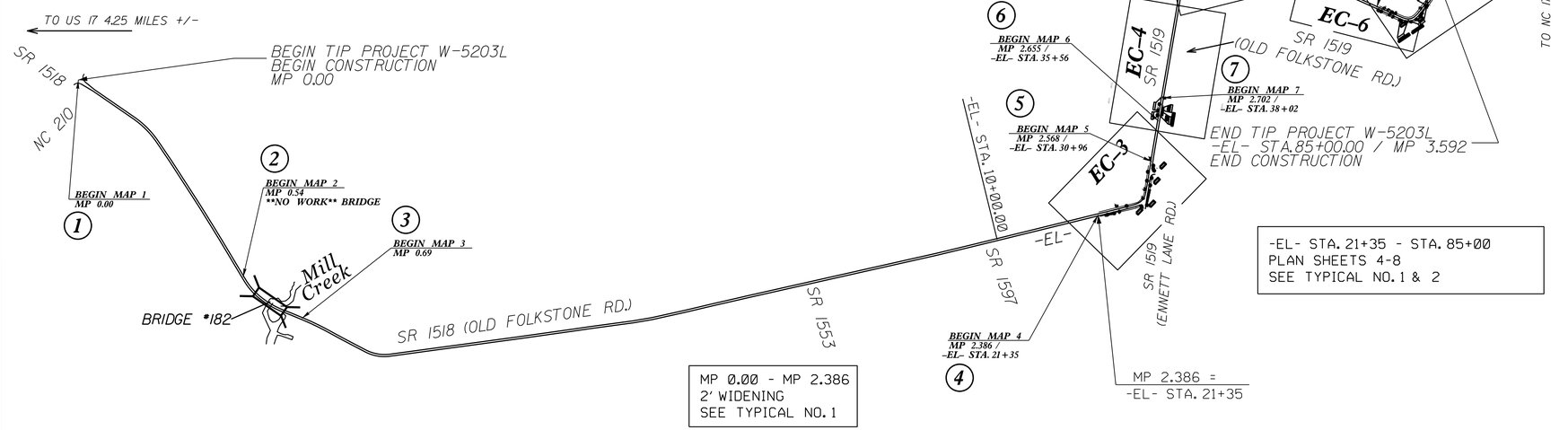
LOCATION: SR 1518 /SR 1519 (OLD FOLKSTONE ROAD /COUNTRY CLUB ROAD) FROM NC 210 TO SR 1515 (SNEADS FERRY ROAD)

TYPE OF WORK: GRADING, DRAINAGE, WIDENING FOR PAVED SHOULDERS, AND THERMOPLASTIC PROFILED PAVEMENT MARKING LINES, ETC.

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR EXISTING & PROPOSED CONDITIONS.

Stormwater Discharge Outfall (SDO)

SDO Number	Station	Distance from ℄	Description
SDO-1	-EL- 36+40	22' LT.	WATTLE
SDO-2	-EL- 36+45	23' RT.	SILT BASIN TYPE B
SDO-3	-EL- 36+67	23' RT.	SILT BASIN TYPE B
SDO-4	-EL- 36+75	23' LT.	WATTLE
SDO-5	-EL- 63+83	22' RT.	WATTLE
SDO-6	-EL- 64+69	23' RT.	WATTLE



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
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	EW CFW
	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
	Earthen Dam with Skimmer	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	
	Safety Fence	

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOT TO SCALE

GRAPHIC SCALE

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

5 2.5 0 5 10
PROFILE (VERTICAL)

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.

For Reference Please Visit Roadside Environmental:
http://www.ncdot.org/doh/operations/dp chief eng/roadside/fieldops/downloads/

Prepared In the Office of:
DIVISON 3 DDC UNIT
5501 Barbados Blvd.
Castle Hayne, NC 28429
By: Carla Schoonmaker, No. 3591

2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

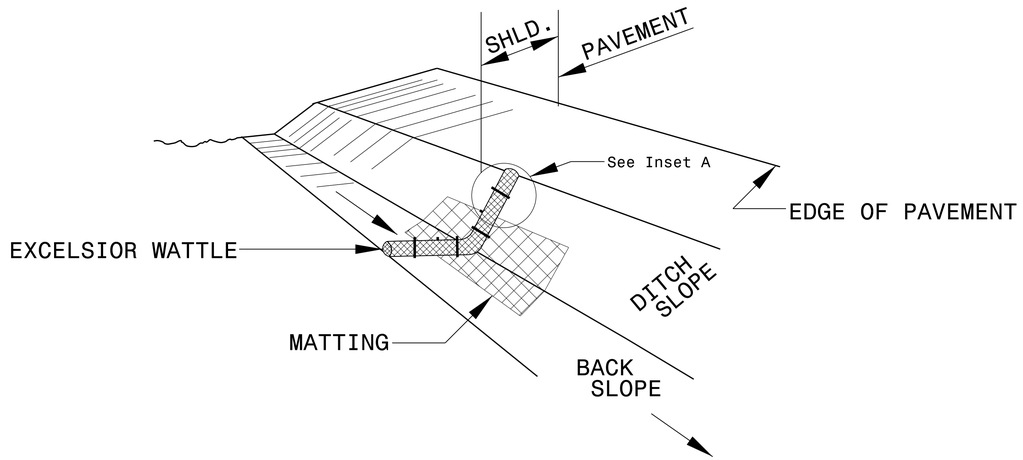
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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		

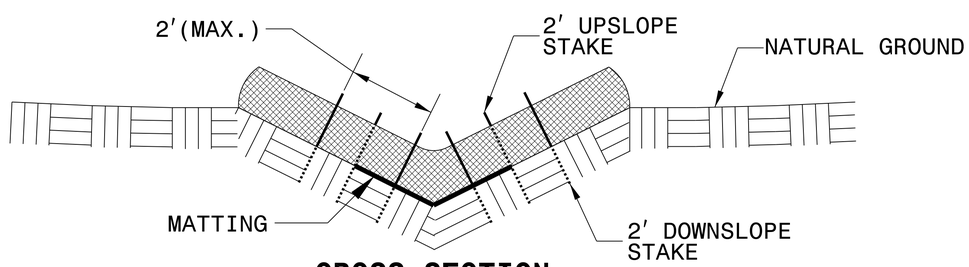
13:1.12 Q:\ED_PROJECTS\W5203L_WIDEN\ROADWAY\Proj\W5203L_Plan Sheets\W5203L_D03_EC01.dgn 08-AUG-2016 15:36 $$$$DESIGNUSE.sss

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-2A

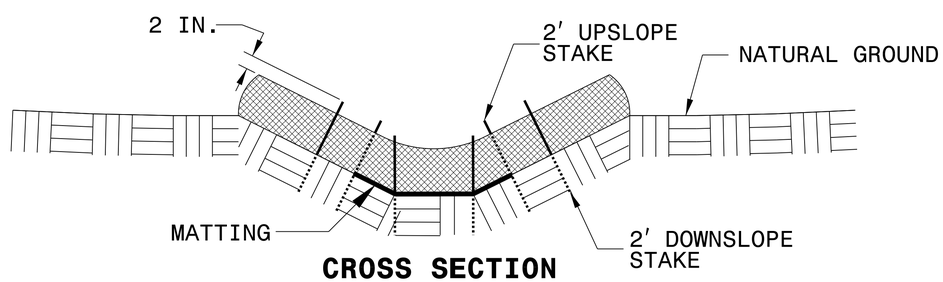
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

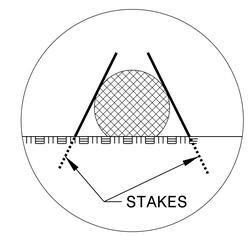
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

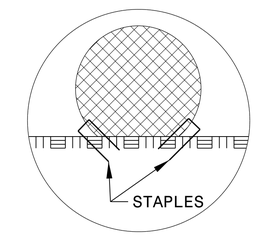
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

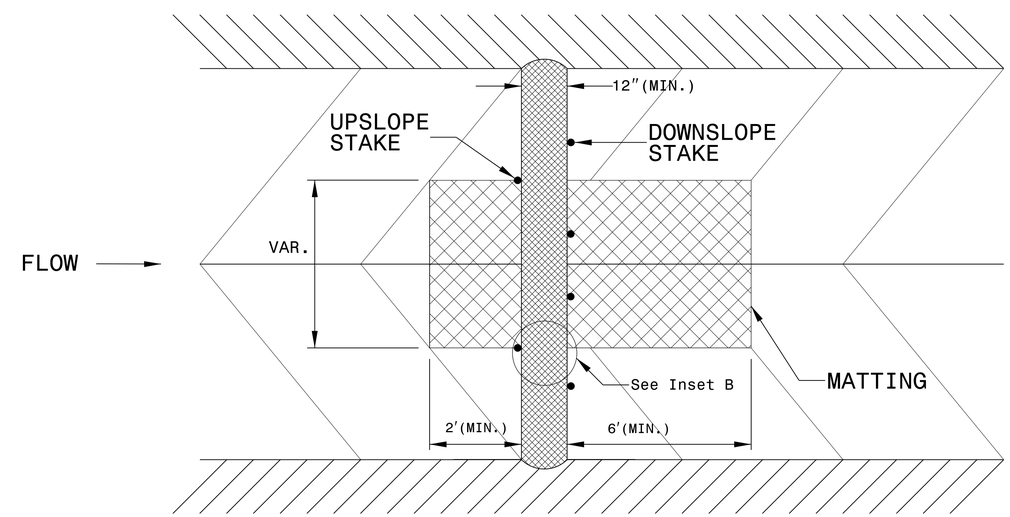
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

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30-JUN-2016 13:00
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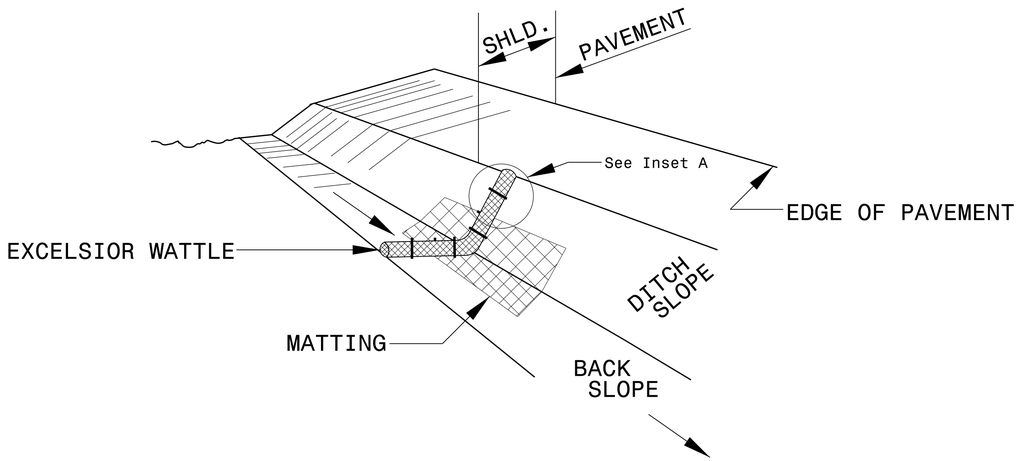
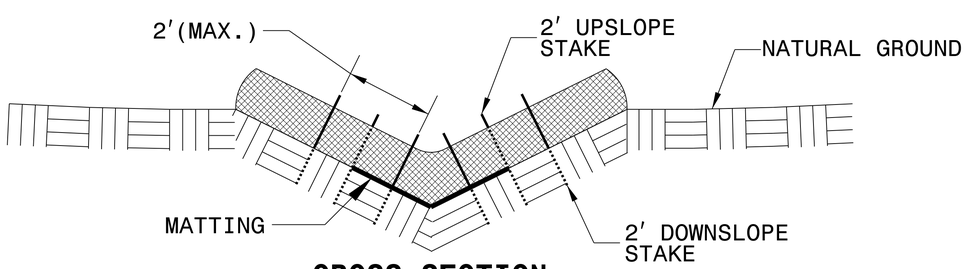
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-2B

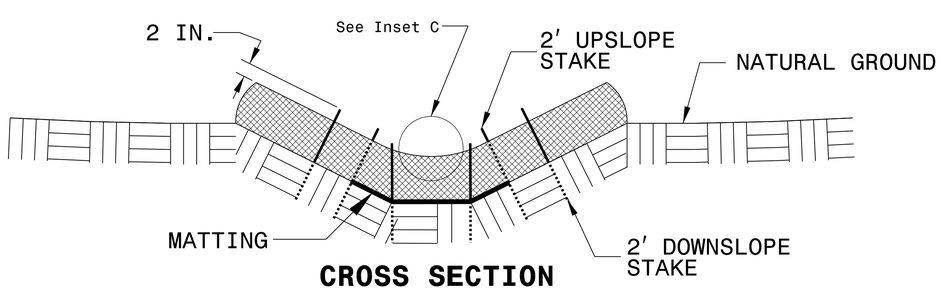
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

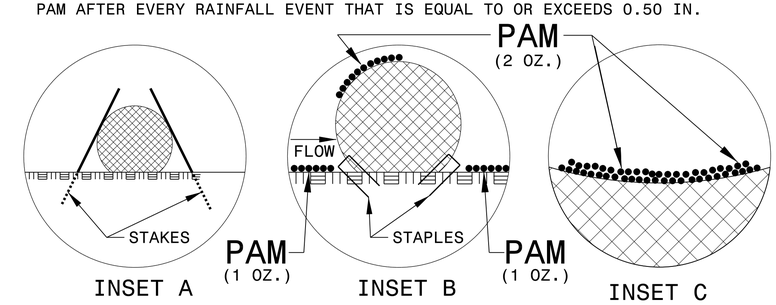
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

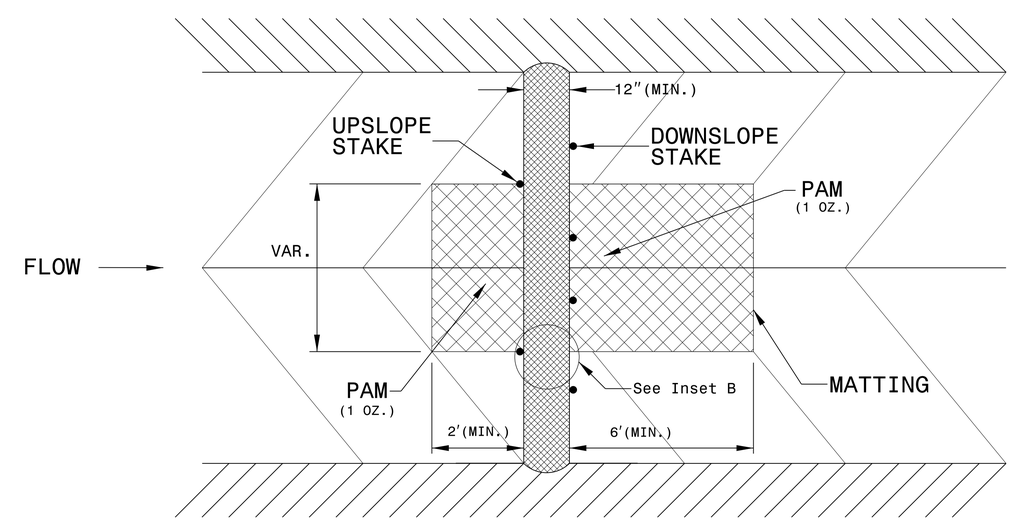
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

8/17/99
20-JUN-2016 13:01
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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-2C

MATTING INSTALLATION DETAIL

MATTING IN DITCHES

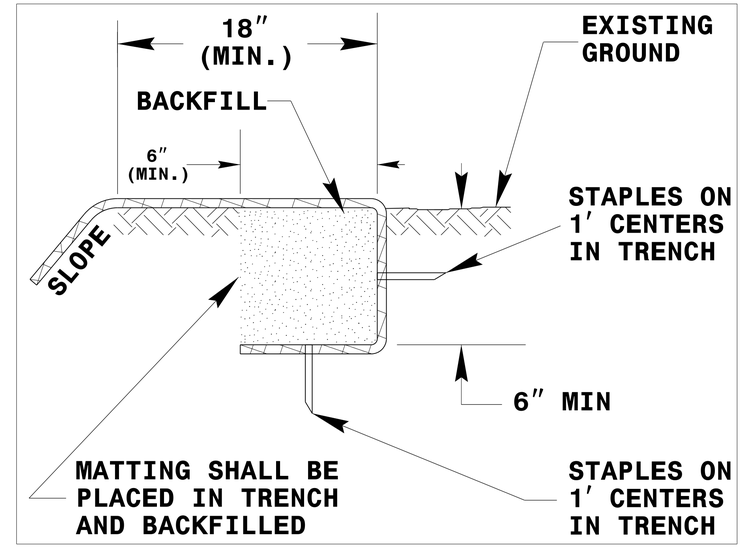
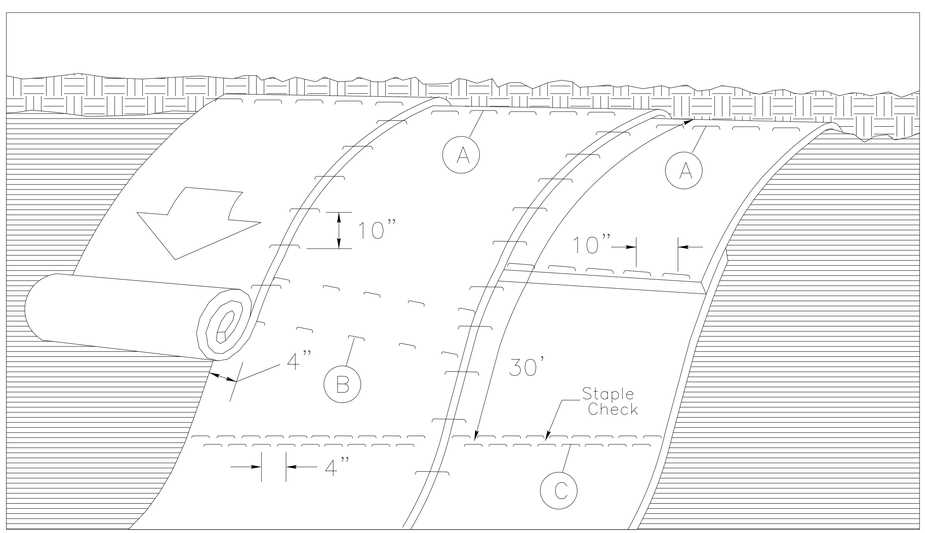


DIAGRAM (A)



MATTING ON SLOPES

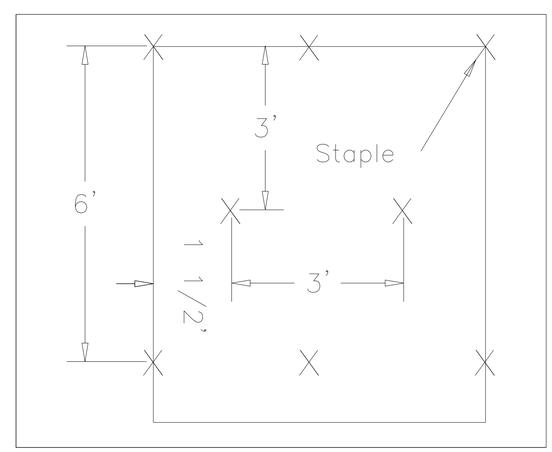


DIAGRAM (B)

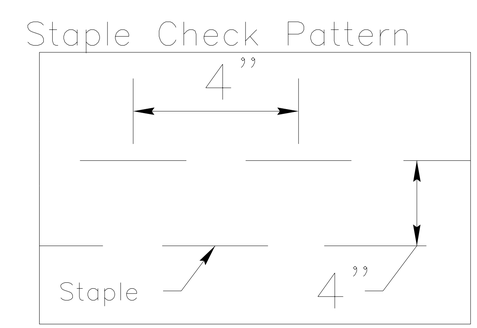


DIAGRAM (C)

NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

8/17/99
04-AUG-2016 08:11
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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-2D

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
EC-7/EC-8	EL	79+00	80+00	RT.	145
EC-7/EC-8	EL	80+00	83+00	RT.	60
EC-8	EL	82+50	85+00	LT.	300
				SUBTOTAL	505
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					1250
				TOTAL	1755
				SAY	1755

COIR FIBER MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
EC-4	EL	36+00	36+60	RT.	60
EC-4	EL	36+60	37+00	RT.	50
EC-4	EL	36+00	36+50	LT.	55
EC-4	EL	36+50	38+00	LT.	165
				SUBTOTAL	330
MISCELLANEOUS PSRM TO BE INSTALLED AS DIRECTED BY THE ENGINEER					0
				TOTAL	330
				SAY	330

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05-AUG-2016 10:40
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$$$$USERNAME$$$$
W-5203L_45333.12_OLD FOLKSTONE 2FT WIDEN\ROADWAY

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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.

8/17/99
30-JUN-2016 13:03
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$$$$USERNAME$$$$

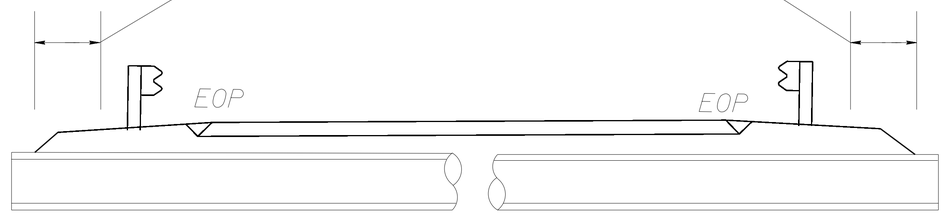
PROJECT REFERENCE NO.	SHEET NO.
W-5103A	EC-2F

EROSION CONTROL DETAIL

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

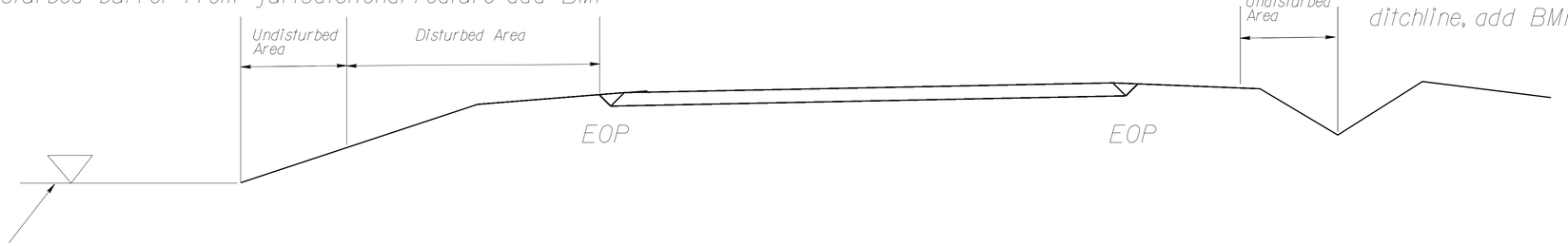
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

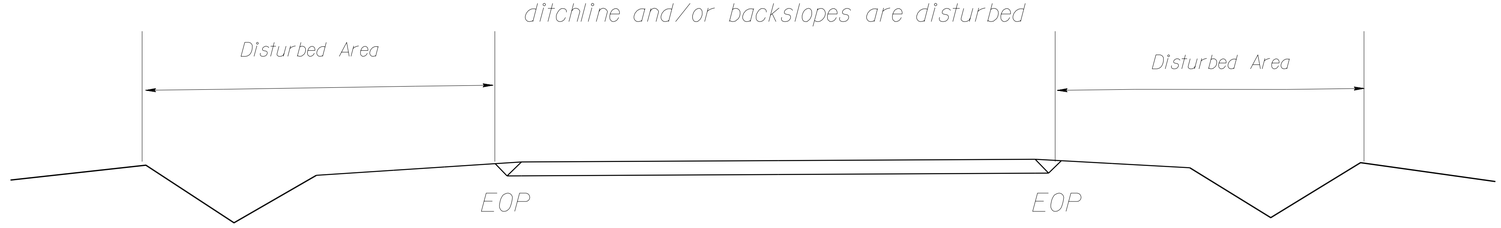
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

< 5' - 10' Undisturbed buffer from ditchline, add BMP

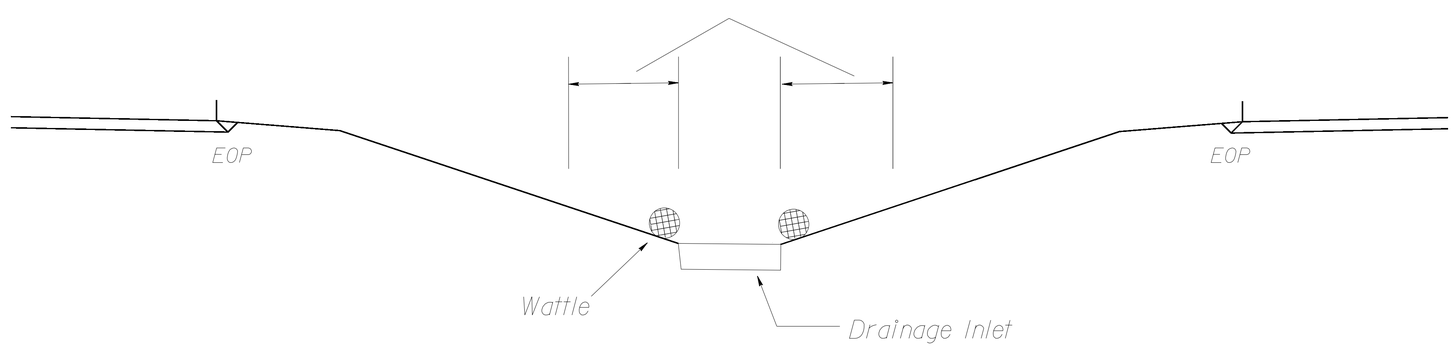


Jurisdictional Feature

Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

8/17/99

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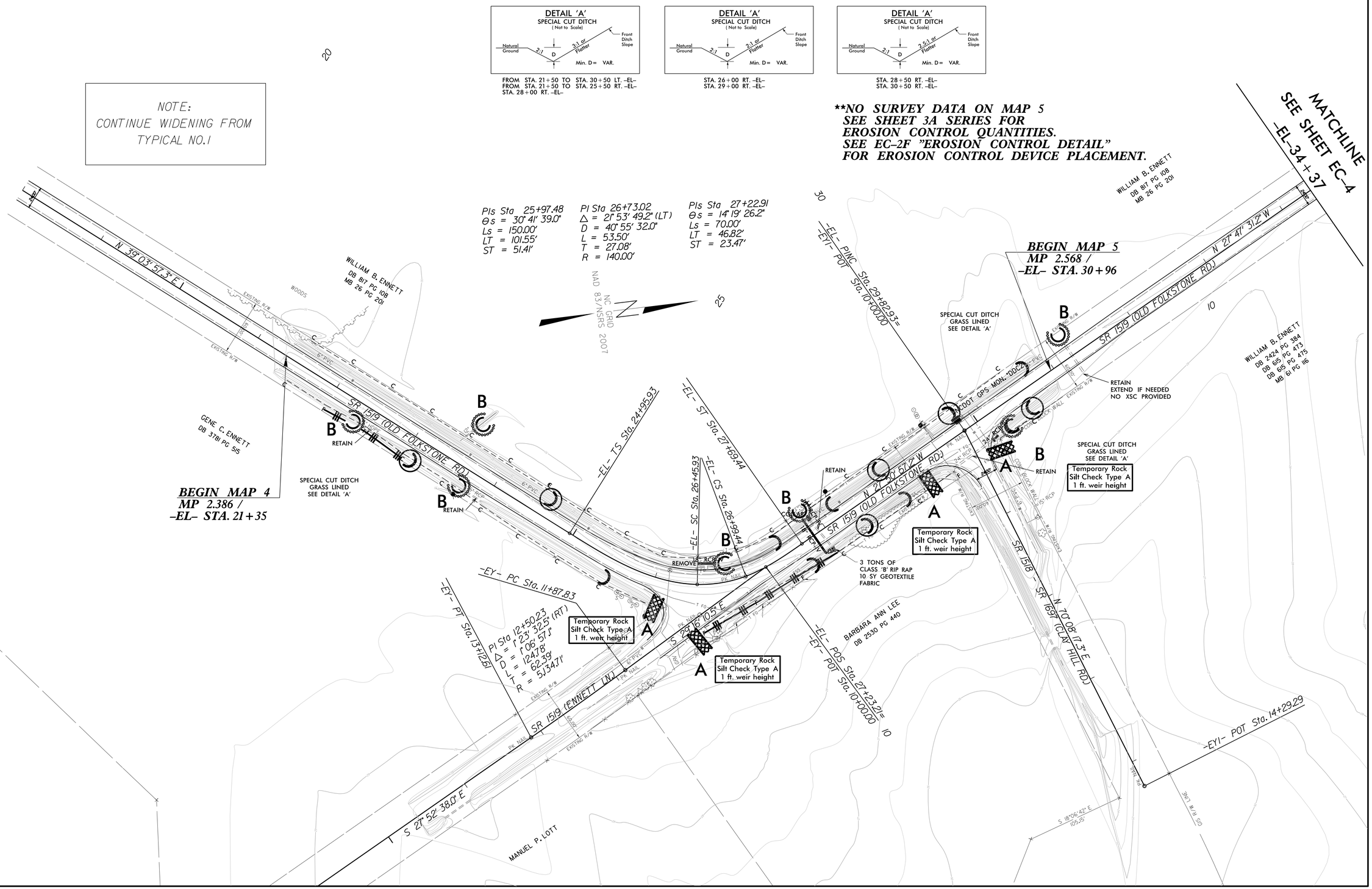
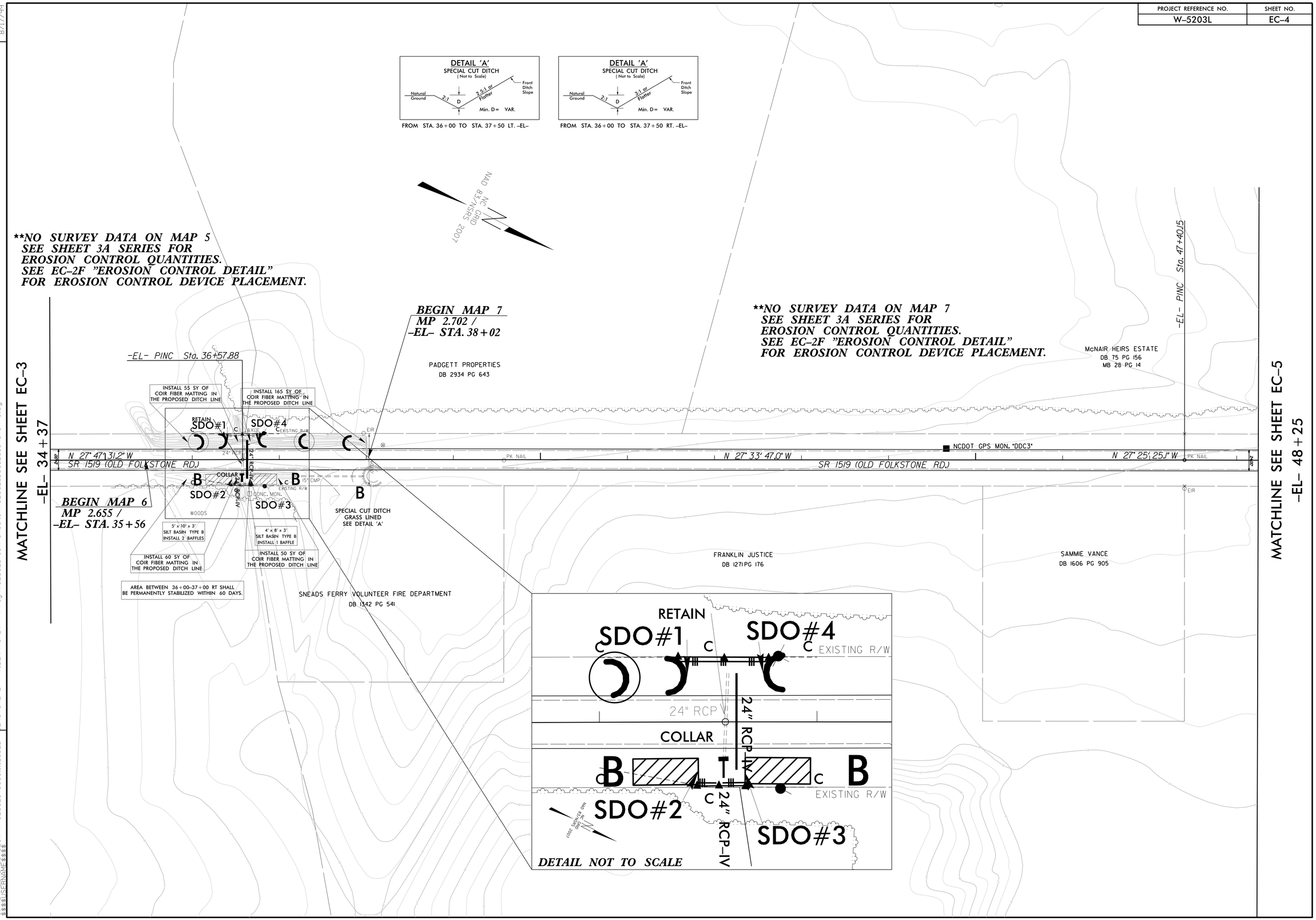
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-3


DETAIL 'A'
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
2:1
D
3:1 or Flatter
Front Ditch Slope
Min. D = VAR.
FROM STA. 21+50 TO STA. 30+50 LT. -EL-
FROM STA. 21+50 TO STA. 25+50 RT. -EL-
STA. 28+00 RT. -EL-
STA. 26+00 RT. -EL-
STA. 29+00 RT. -EL-
2.5:1 or Flatter
STA. 28+50 RT. -EL-
STA. 30+50 RT. -EL-
NOTE:
CONTINUE WIDENING FROM
TYPICAL NO.1
**NO SURVEY DATA ON MAP 5
SEE SHEET 3A SERIES FOR
EROSION CONTROL QUANTITIES.
SEE EC-2F "EROSION CONTROL DETAIL"
FOR EROSION CONTROL DEVICE PLACEMENT.
MATCHLINE
SEE SHEET EC-4
-EL-34+37
PIs Sta 25+97.48
Θs = 30° 41' 39.0"
Ls = 150.00'
LT = 101.55'
ST = 51.41'
PI Sta 26+73.02
Δ = 21° 53' 49.2" (LT)
D = 40° 55' 32.0"
L = 53.50'
T = 27.08'
R = 140.00'
PIs Sta 27+22.91
Θs = 14° 19' 26.2"
Ls = 70.00'
LT = 46.82'
ST = 23.47'
NAD 83/NSRS 2007
NC GRID
N 39°03' 57.3" E
N 27° 41' 31.2" W
N 27° 50' 57.2" W
N 70° 08' 17.3" E
S 27° 52' 38.0" E
S 29° 16' 10.5" E
S 18°06' 42" E
105.15'
BEGIN MAP 5
MP 2.568 /
-EL- STA. 30+96
BEGIN MAP 4
MP 2.386 /
-EL- STA. 21+35
-EL- PINC Sta. 29+82.93
-EY- POT Sta. 10+00.00
-EL- TS Sta. 24+95.93
-EL- ST Sta. 27+69.44
-EL- SC Sta. 26+45.93
-EL- CS Sta. 26+99.44
-EY- PC Sta. 11+87.83
-EY- PT Sta. 13+12.61
PI Sta 12+50.23
Δ = 1° 23' 32.5" (RT)
D = 1° 06' 57.1"
L = 124.78'
T = 62.39'
R = 5,134.71'
-EL- POS Sta. 27+23.21
-EY- POT Sta. 10+00.00
-EYI- POT Sta. 14+29.29
SR 1519 (OLD FOLKSTONE RD)
SR 1519 (FENNETT LN)
SR 1518 ~ SR 1697 (CLAY HILL RD)
SR 1519 (OLD FOLKSTONE RD)
WILLIAM B. ENNETT
DB 817 PG 108
MB 26 PG 201
WILLIAM B. ENNETT
DB 2424 PG 384
DB 665 PG 473
DB 665 PG 475
MB 61 PG 116
GENE C. ENNETT
DB 3781 PG 515
BARBARA ANN LEE
DB 2530 PG 440
MANUEL P. LOTT
WOODS
EXISTING R/W
6" PINC
6" RCP
18" RCP
24" RCP
REMOVE
RETAIN
RETAIN
EXTEND IF NEEDED
NO XSC PROVIDED
NCDOT GPS MON.-DDC
SPECIAL CUT DITCH
GRASS LINED
SEE DETAIL 'A'
Temporary Rock
Silt Check Type A
1 ft. weir height
3 TONS OF
CLASS 'B' RIP RAP
10 SY GEOTEXTILE
FABRIC
COMBAT
CONC. BLOCK WALL
PK NAIL
EXISTING B/A
PK NAIL
6" BWC
PK NAIL
PK NAIL
PK NAIL

PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-4



REVISIONS

8/17/99

08-AUG-2016 14:15
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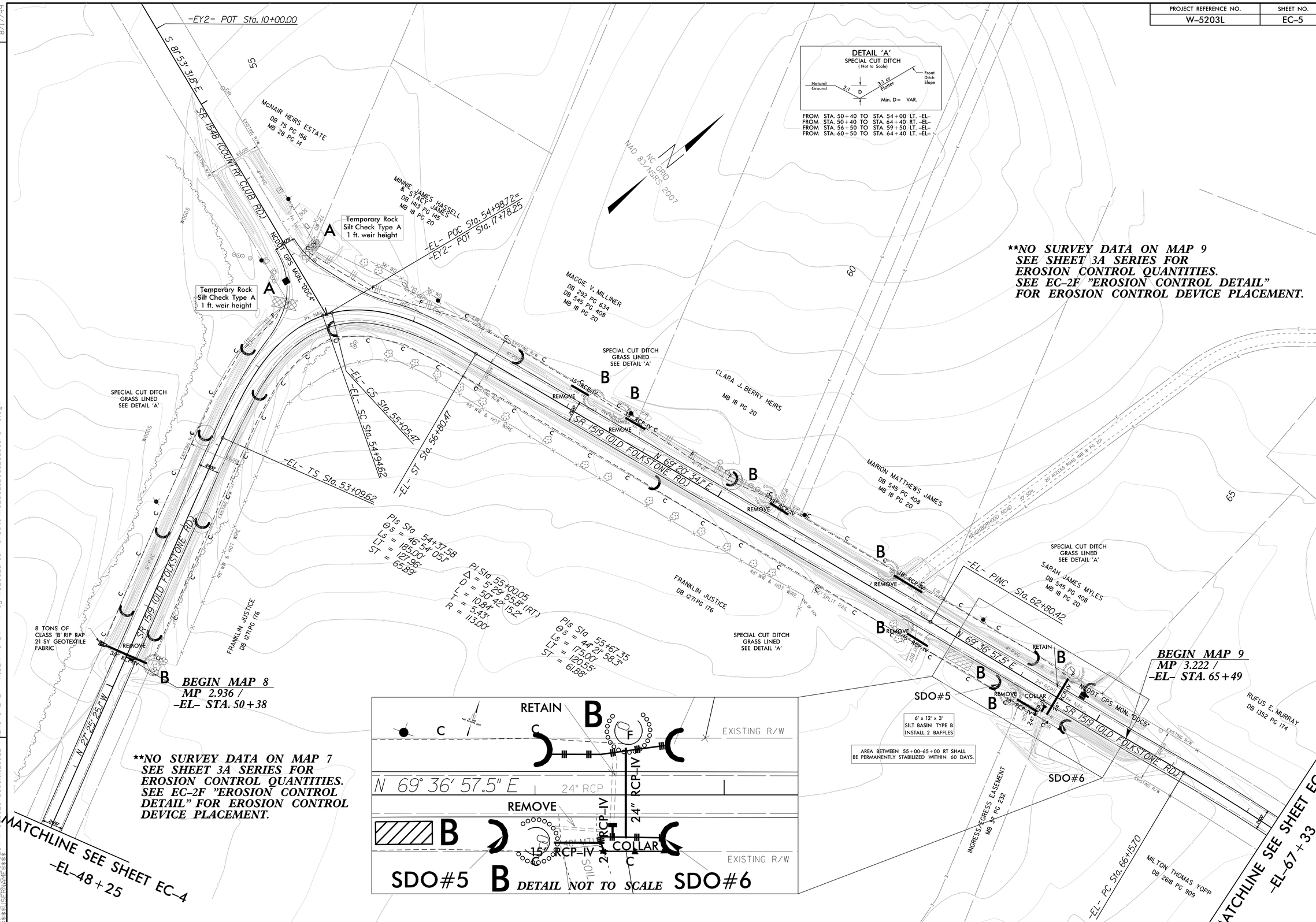
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-5



REVISIONS

8/17/99

08-AUG-2016 14:14
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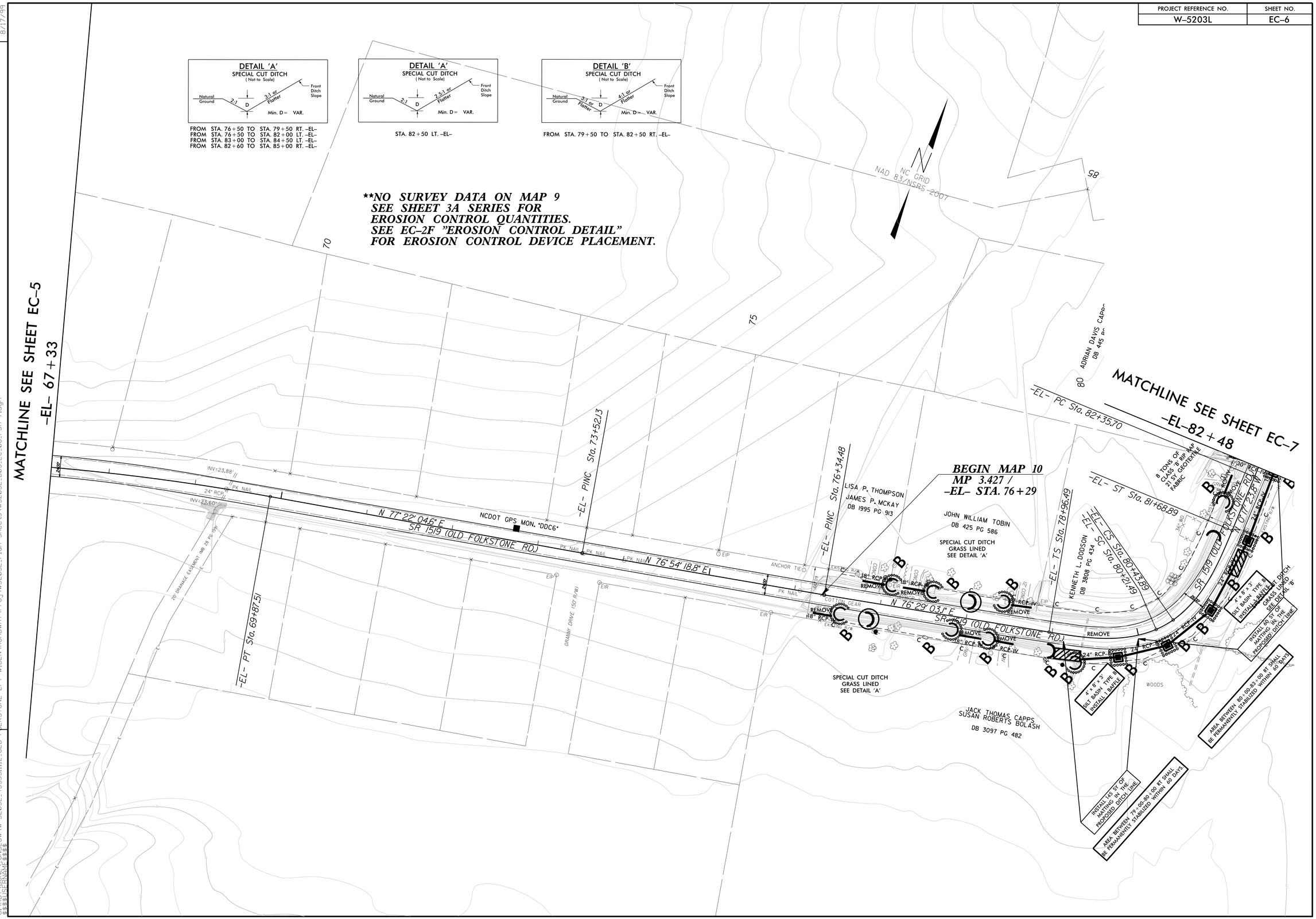
W-5203L	EC-6



REVISIONS

8/17/99

05-AUG-2016 11:04
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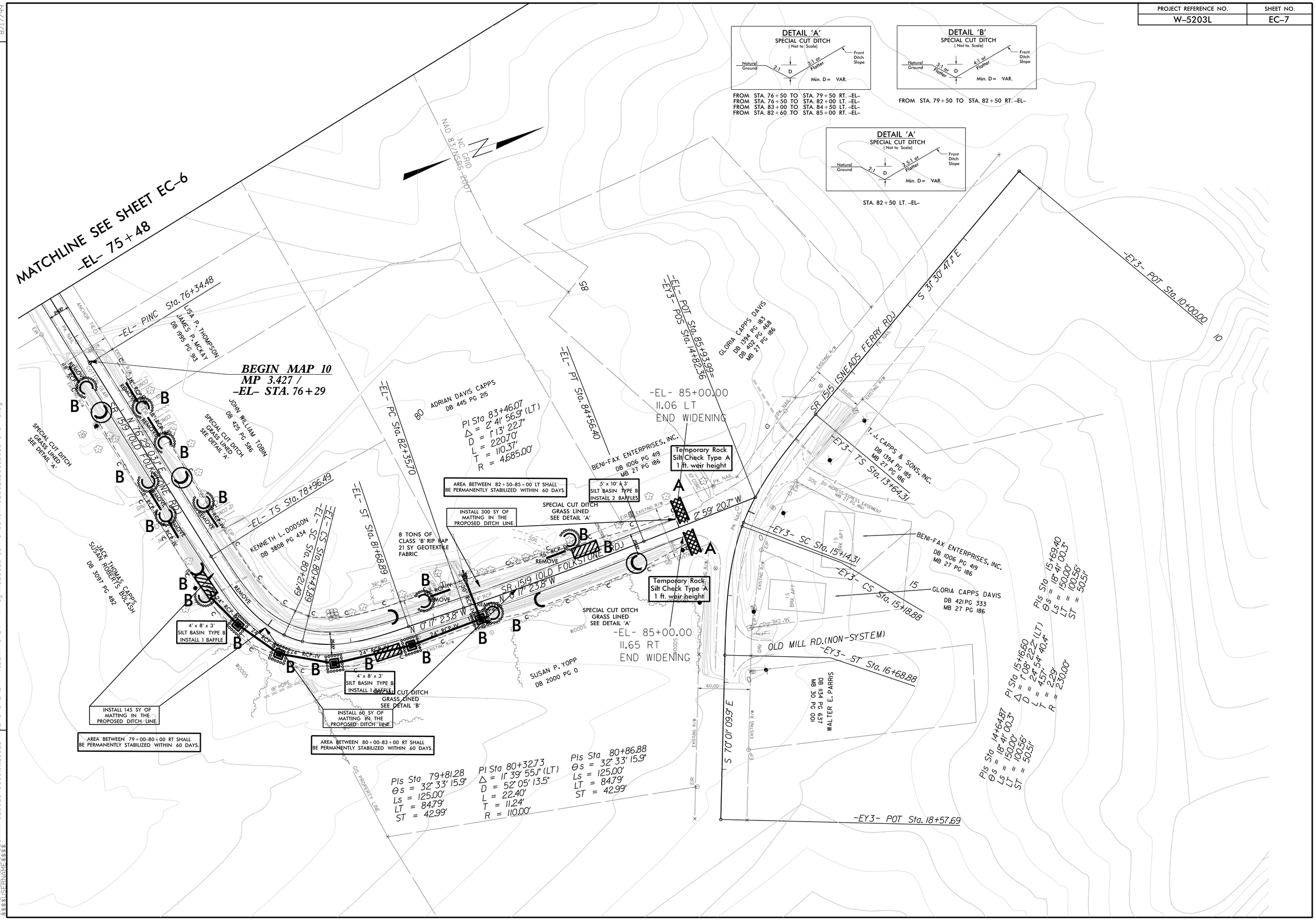
PROJECT REFERENCE NO.	SHEET NO.
W-5203L	EC-7



PROJ. REFERENCE NO.	SHEET NO.
W-5203L	X-1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

Station El	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	Station EL	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
21+50.00	0	0	76+50.00	0	0
22+00.00	12	10	77+00.00	27	19
22+50.00	17	10	77+50.00	38	21
23+00.00	18	9	78+00.00	50	15
23+50.00	14	9	78+50.00	57	5
24+00.00	15	7	79+00.00	50	12
24+50.00	18	7	79+50.00	30	18
25+00.00	19	10	80+00.00	28	10
25+50.00	25	10	80+50.00	42	6
26+00.00	27	7	81+00.00	39	16
26+50.00	31	3	81+50.00	29	29
27+00.00	35	3	82+00.00	31	28
27+50.00	26	14	82+50.00	27	31
28+00.00	22	20	83+00.00	26	33
28+50.00	29	25	83+50.00	34	22
29+00.00	32	33	84+00.00	31	14
29+50.00	27	26	84+50.00	20	10
30+00.00	21	14	85+00.00	13	4
30+50.00	27	19			
36+00.00	0	0			
36+50.00	17	31			
37+00.00	29	31			
37+50.00	21	19			
50+50.00	0	0			
51+00.00	22	34			
51+50.00	28	32			
52+00.00	30	31			
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57+00.00	31	24			
57+50.00	32	23			
58+00.00	37	16			
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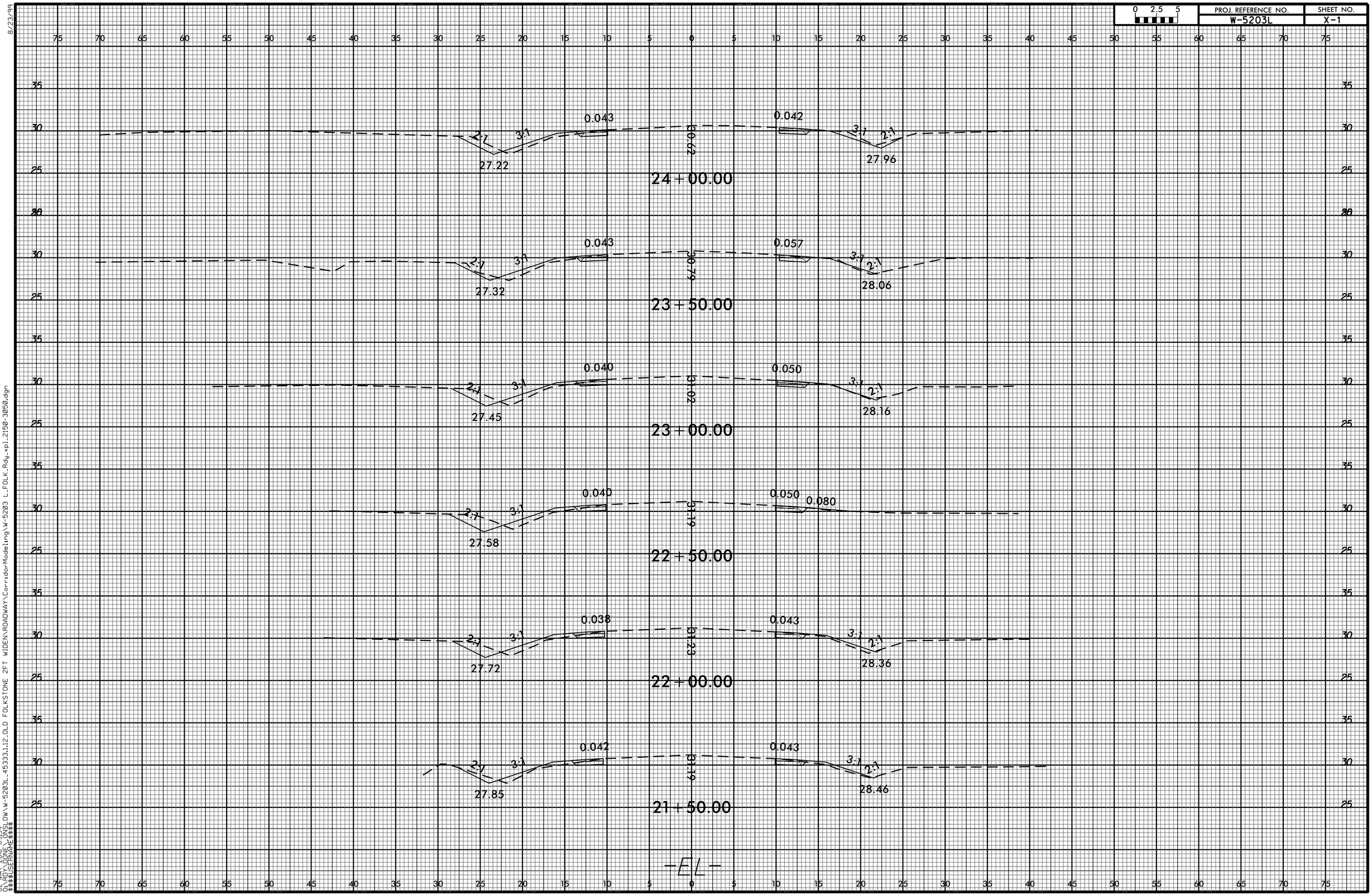

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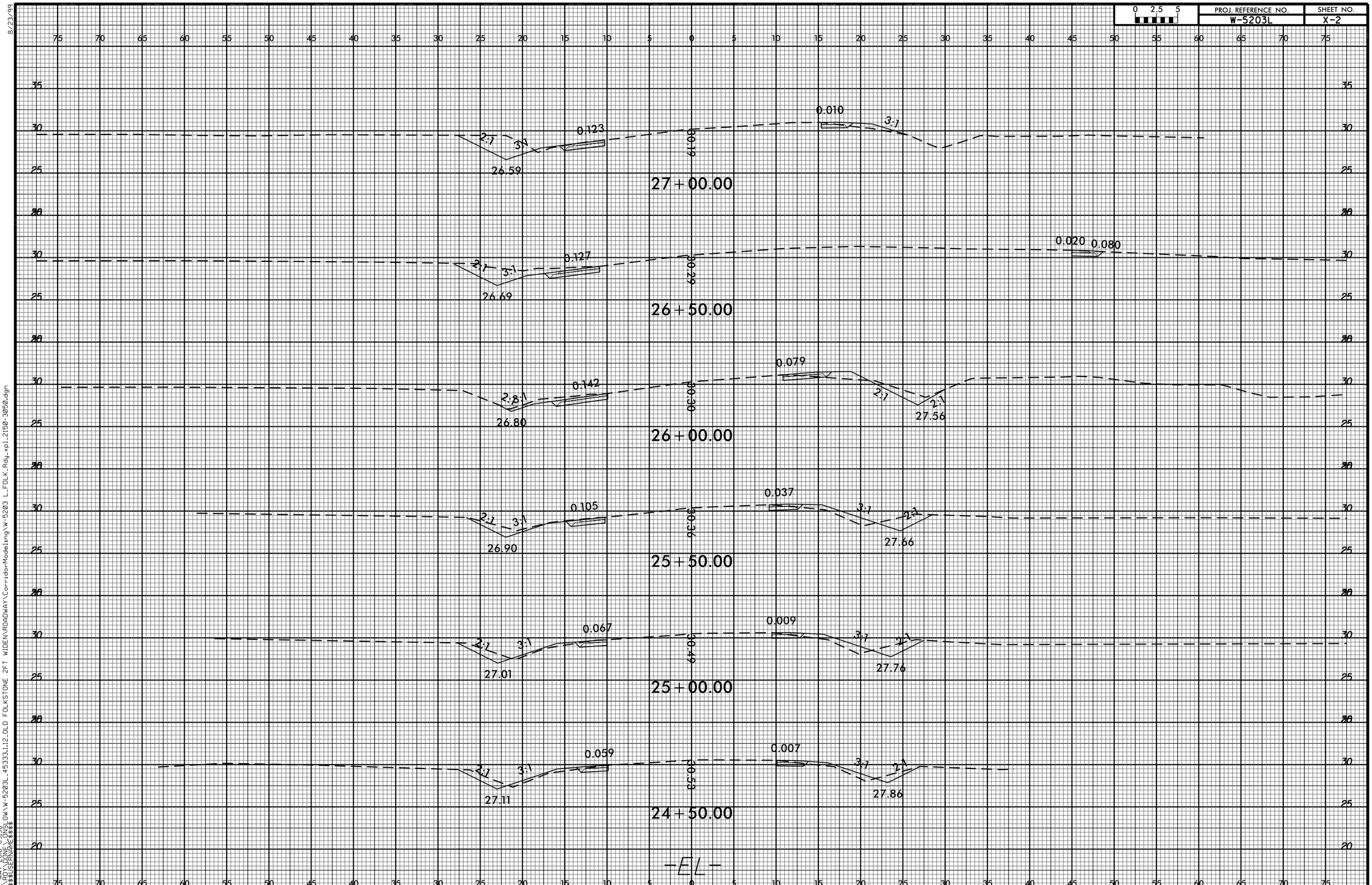

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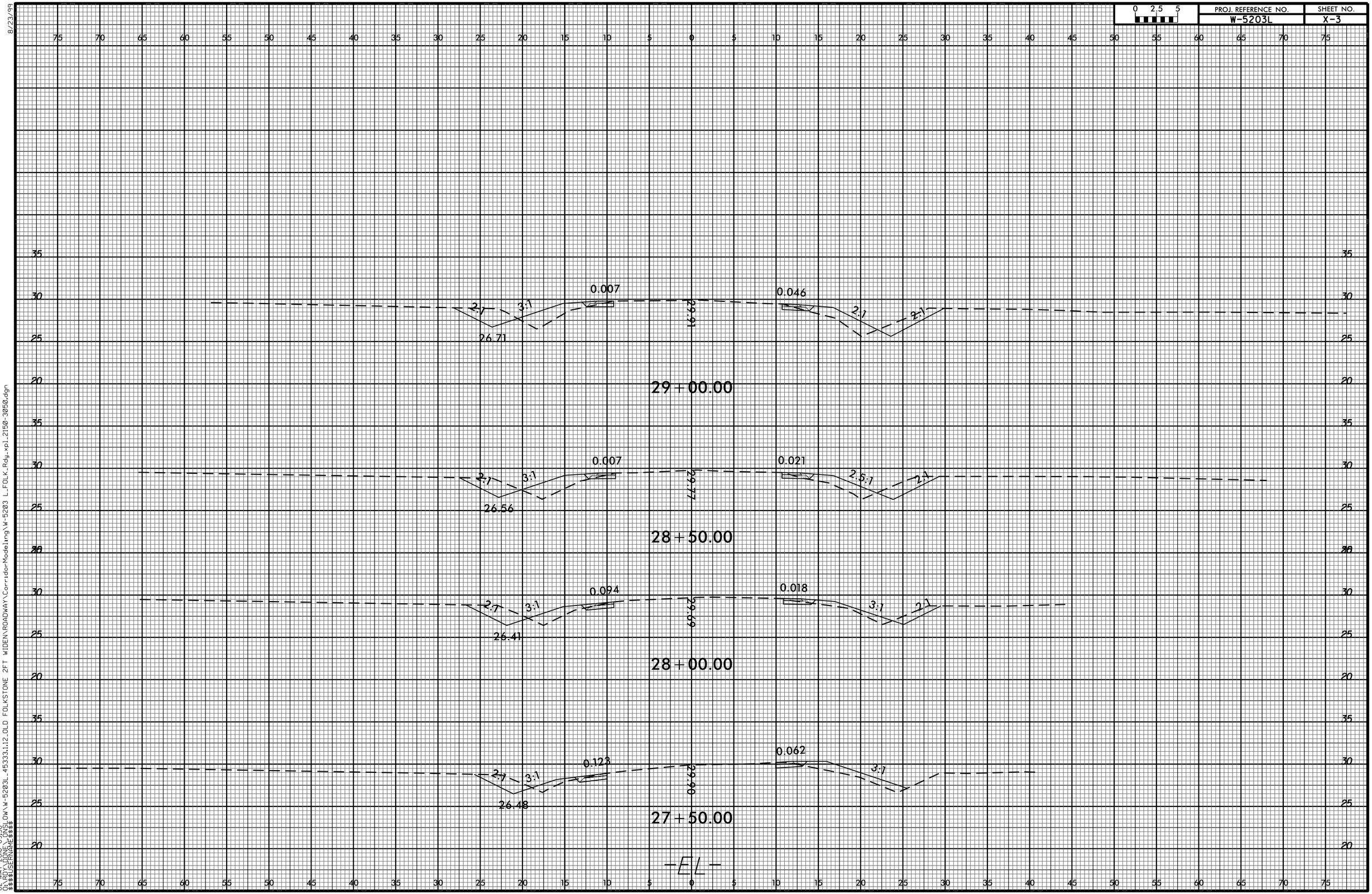

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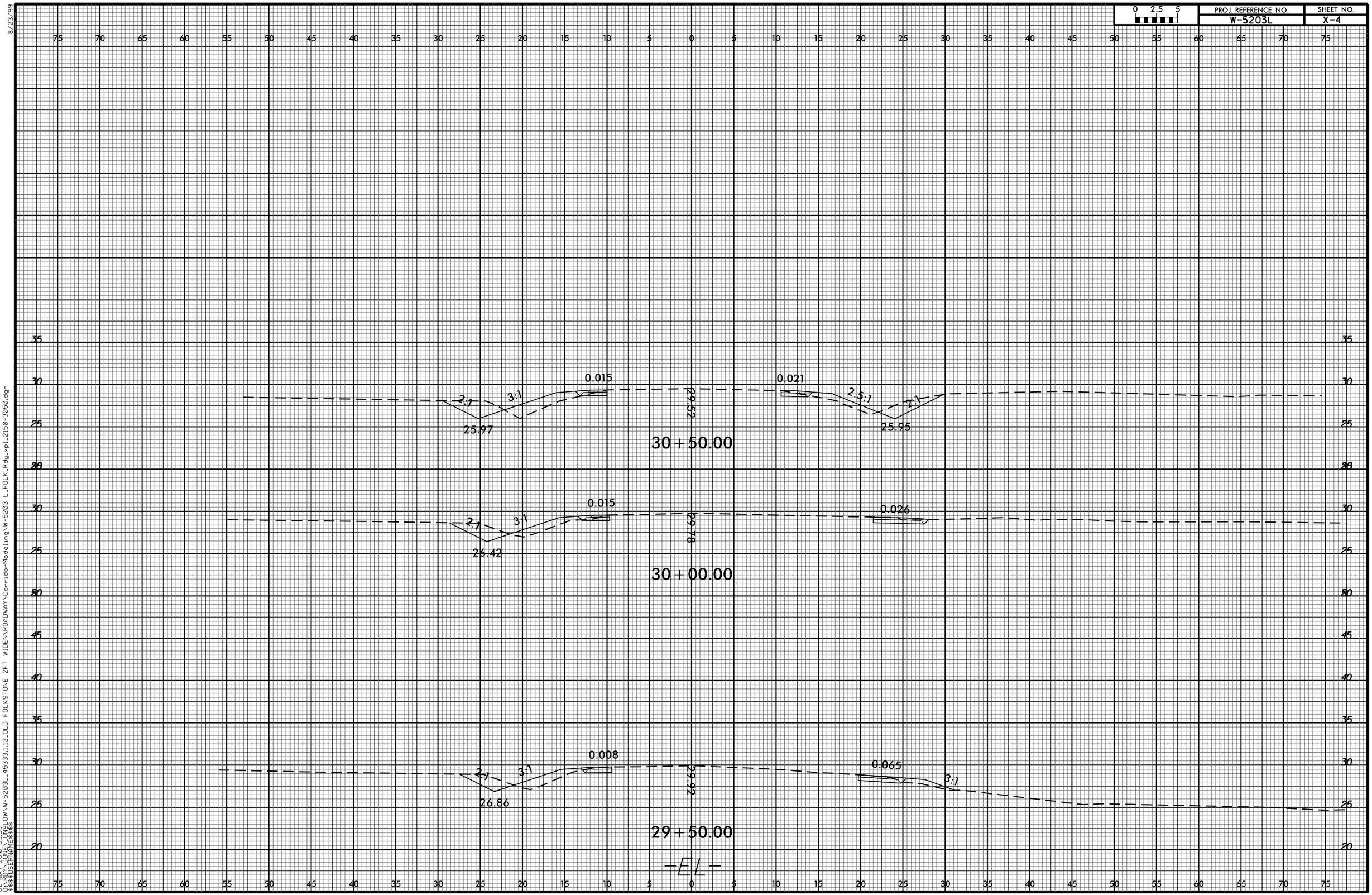
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3:1
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25.95
29.53
30+50.00
0.015
0.026
2:1
3:1
26.42
29.78
30+00.00
0.008
0.065
2:1
3:1
3:1
26.86
29.92
29+50.00
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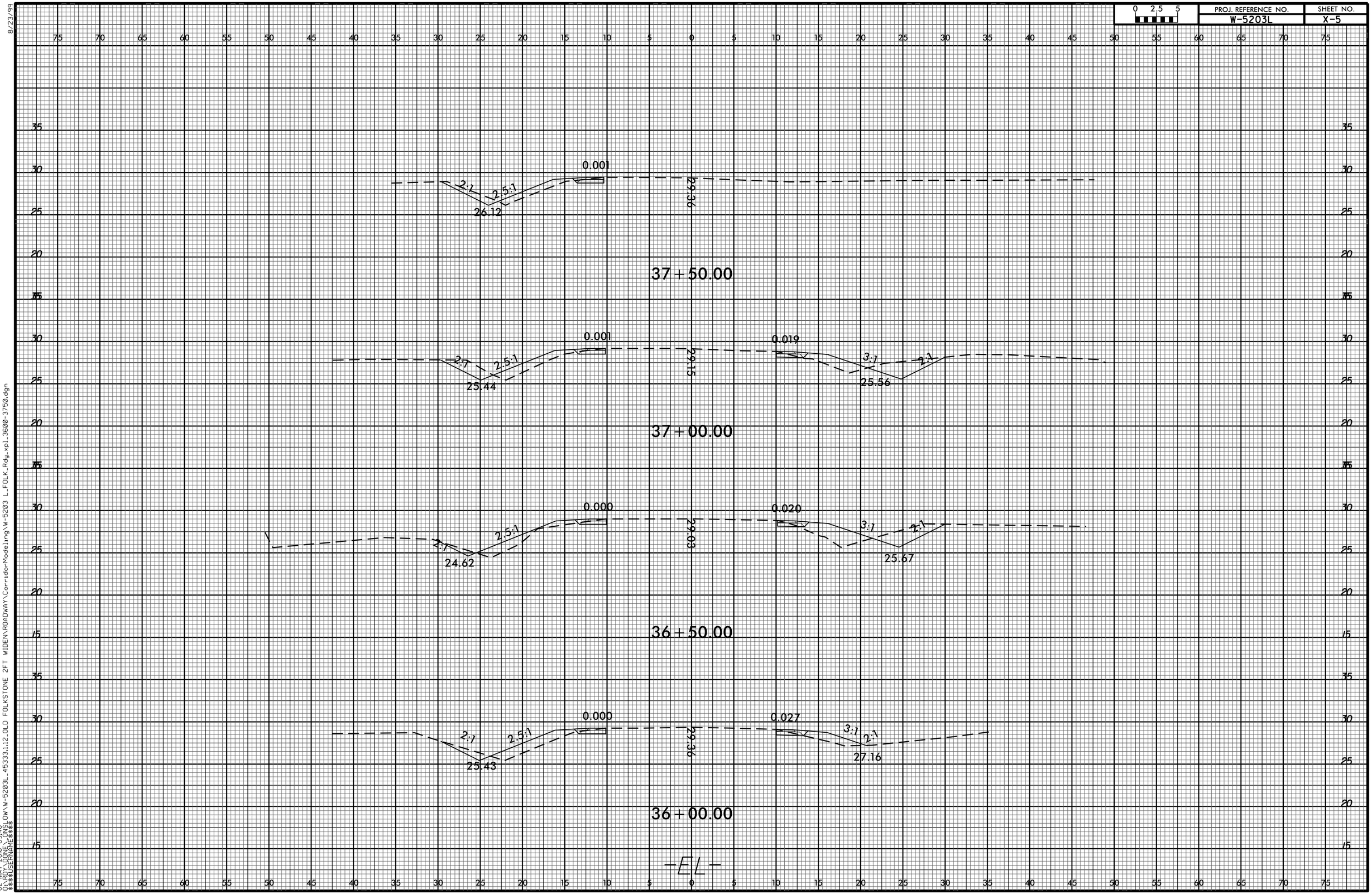
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26.12
29.36
37+00.00
0.001
0.019
2:1
2.5:1
3:1
2:1
25.44
25.56
29.15
36+50.00
0.000
0.020
2:1
2.5:1
3:1
2:1
24.62
25.67
29.03
36+00.00
0.000
0.027
2:1
2.5:1
3:1
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25.43
27.16
29.36
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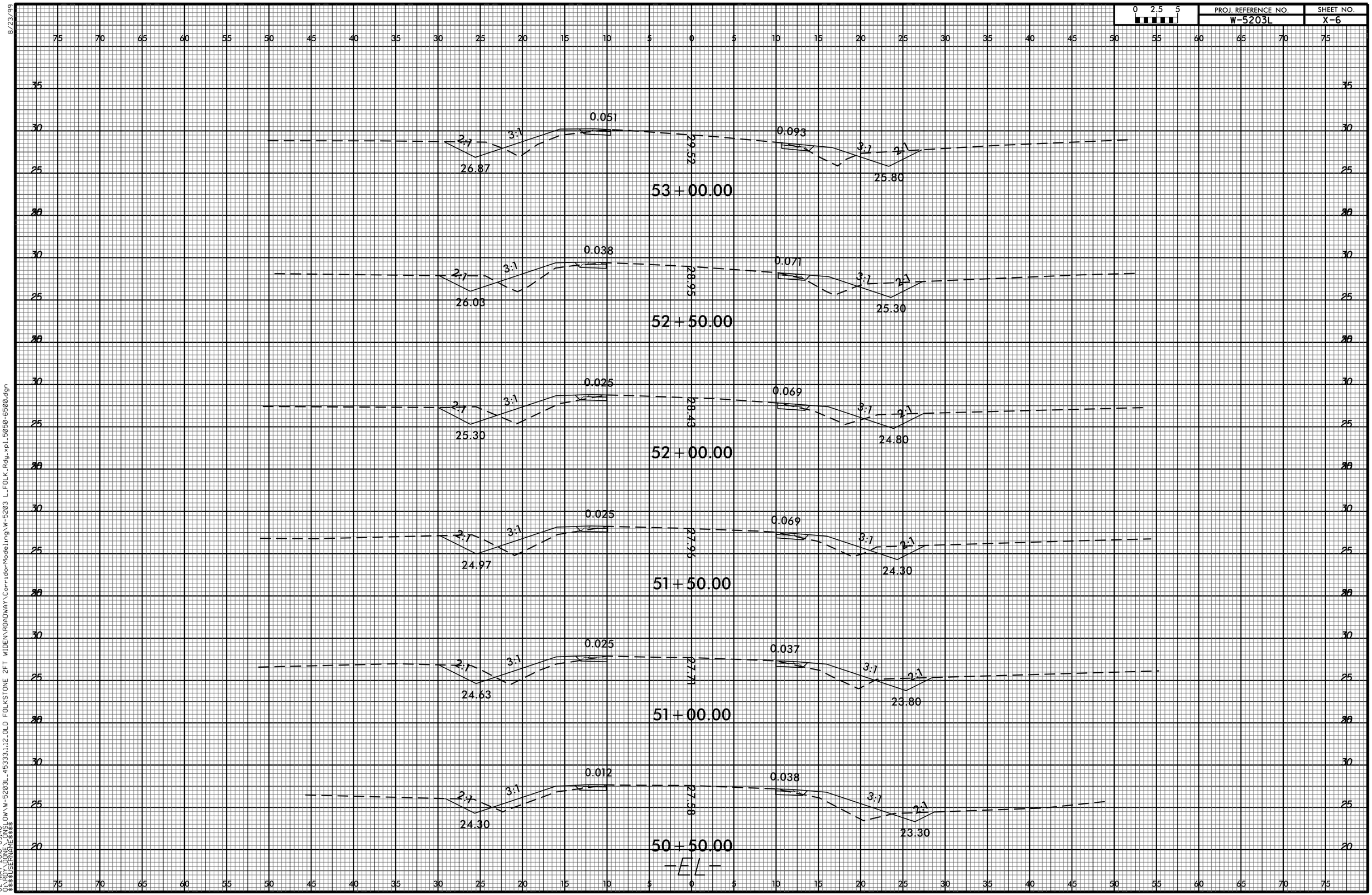

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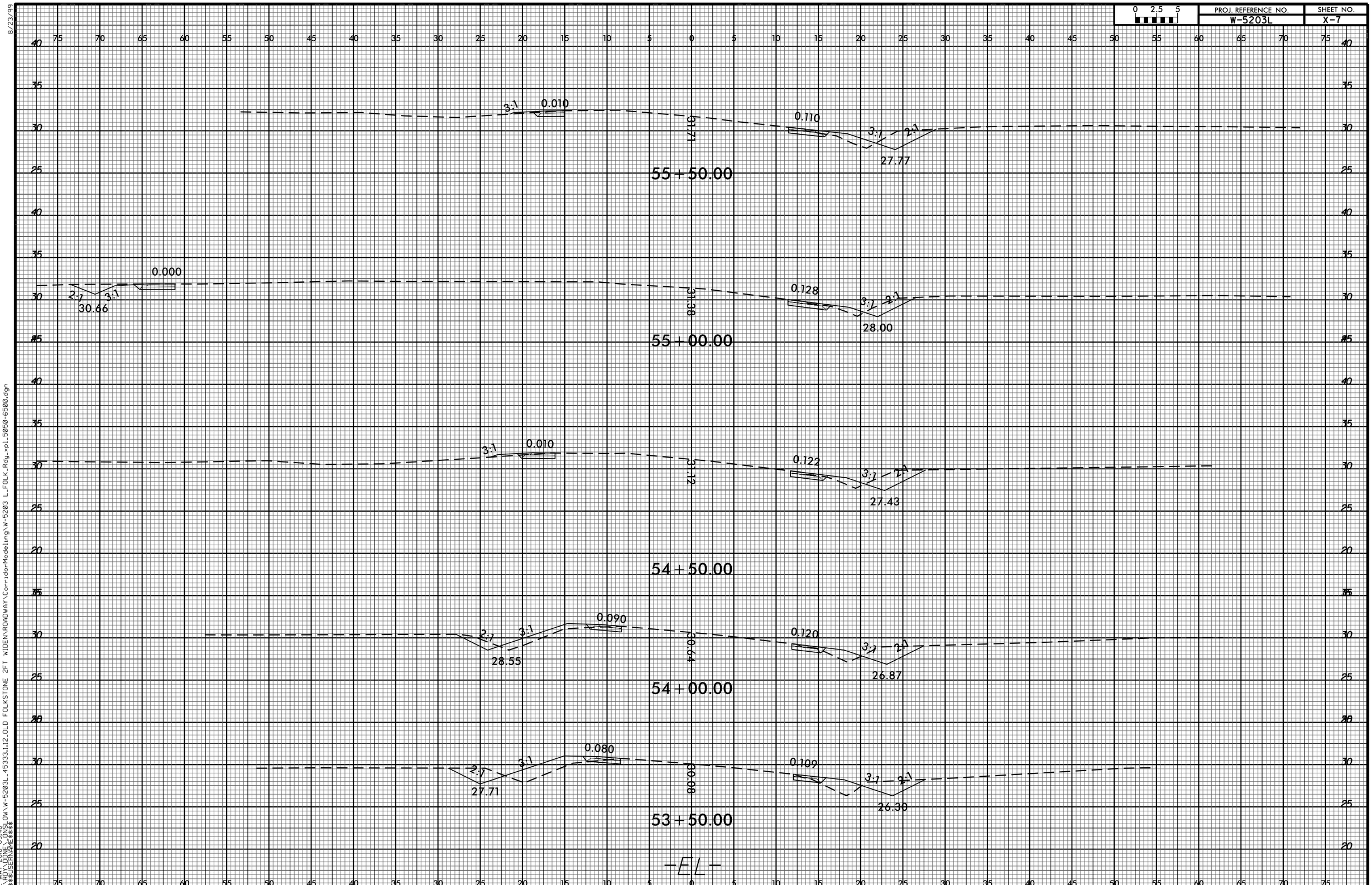

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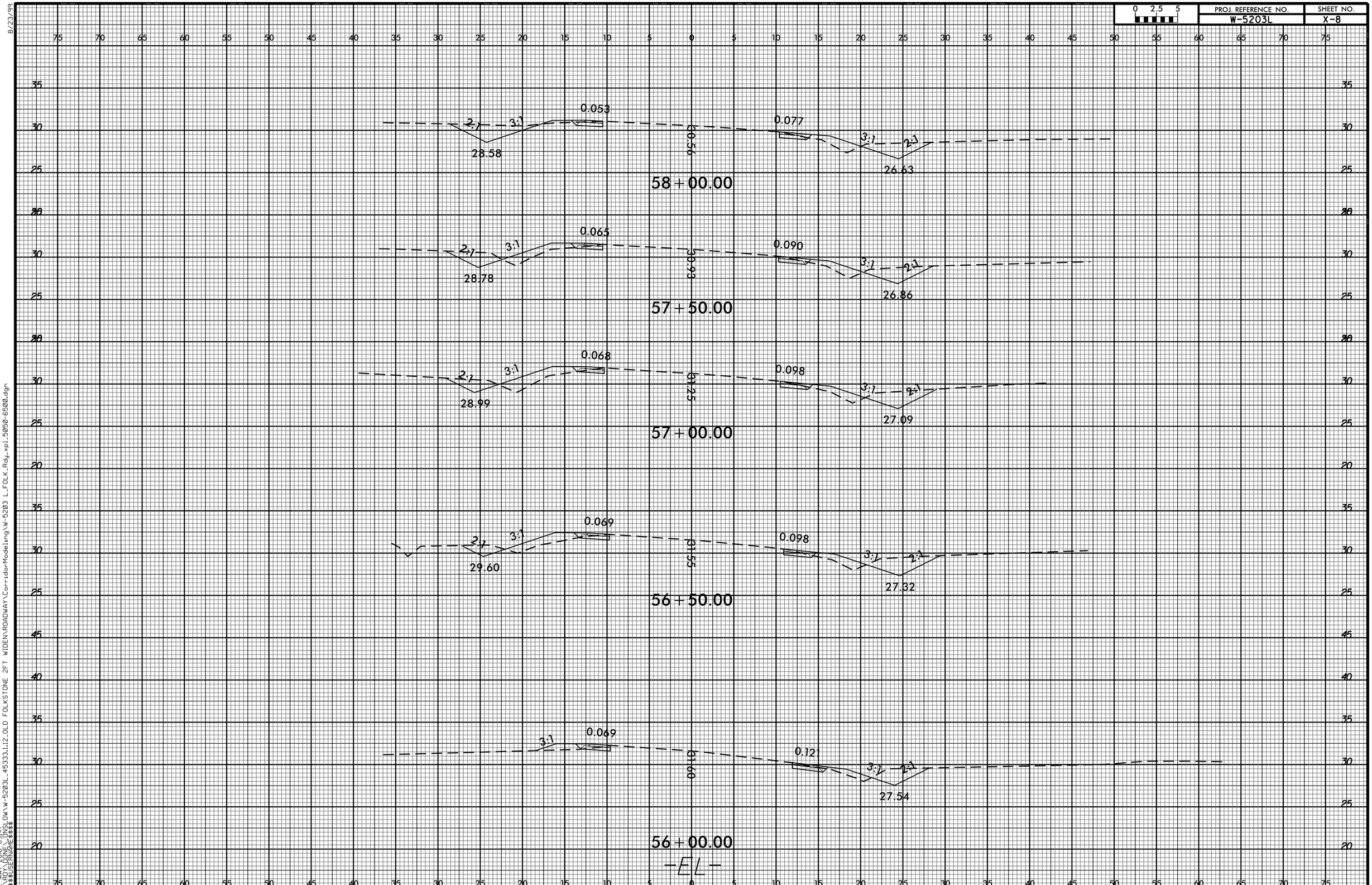

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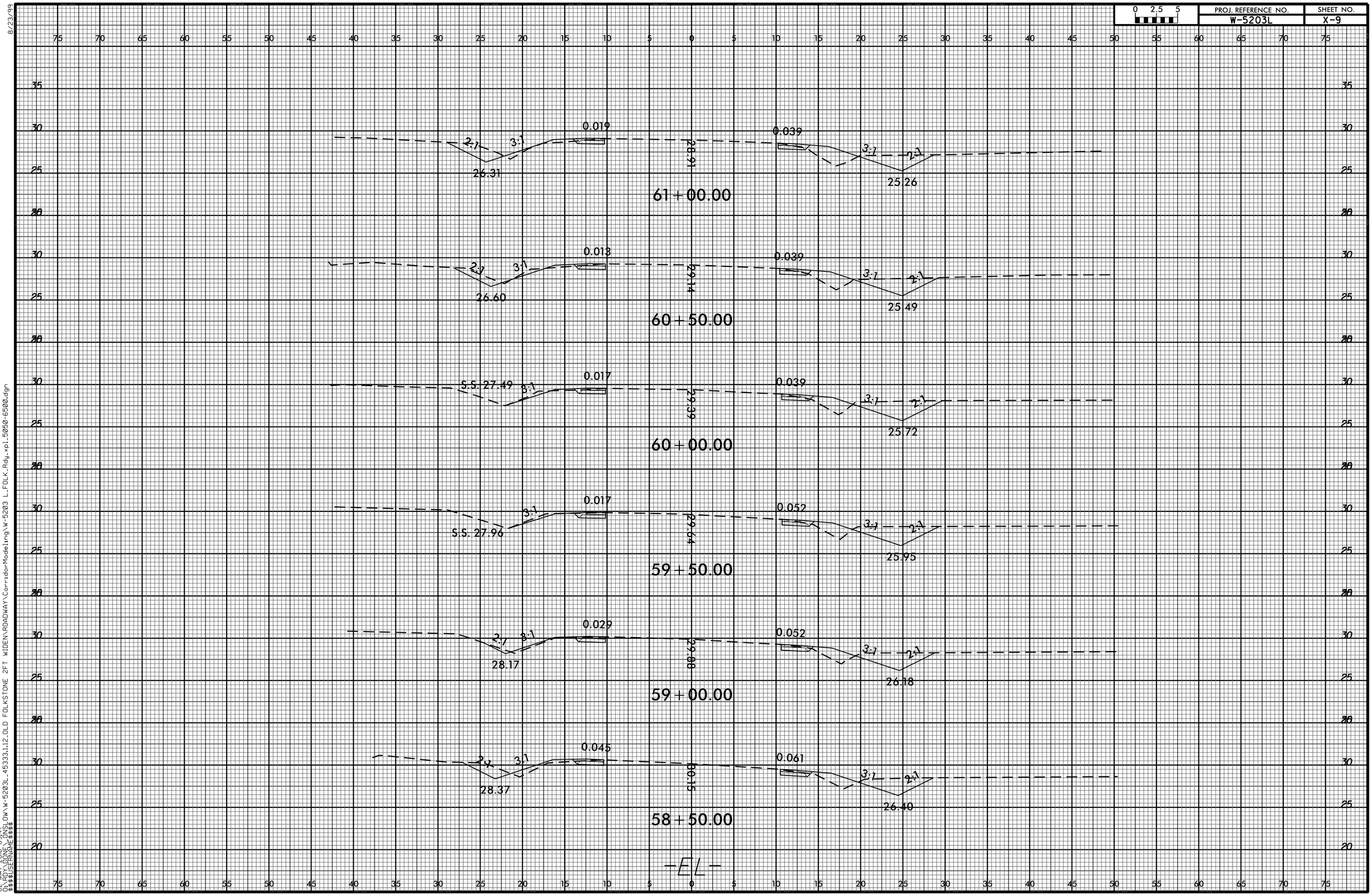
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0.013
2:1
3:1
26.60
29.14
0.039
3:1
2:1
25.49
60+50.00
0.017
S.S. 27.49
3:1
29.39
0.039
3:1
2:1
25.72
60+00.00
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3:1
S.S. 27.96
29.94
0.052
3:1
2:1
25.95
59+50.00
0.029
2:1
3:1
28.17
29.88
0.052
3:1
2:1
26.18
59+00.00
0.045
2:1
3:1
28.37
30.15
0.061
3:1
2:1
26.40
58+50.00
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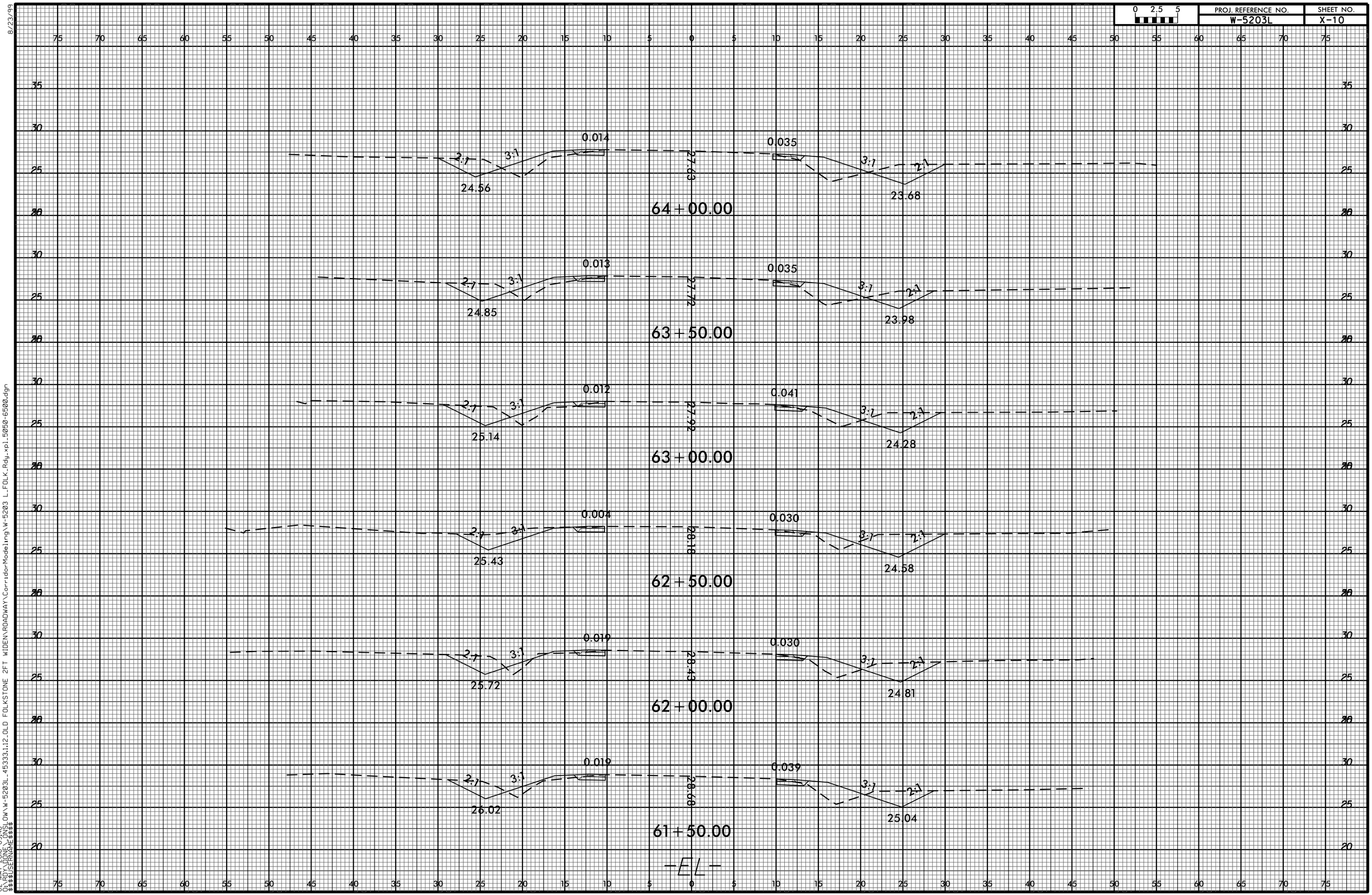
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27.63
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0.013
0.035
24.85
23.98
27.72
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0.012
0.041
25.14
24.28
27.92
62+50.00
0.004
0.030
25.43
24.58
28.18
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0.019
0.030
25.72
24.81
28.43
61+50.00
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0.039
26.02
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2:1
3:1
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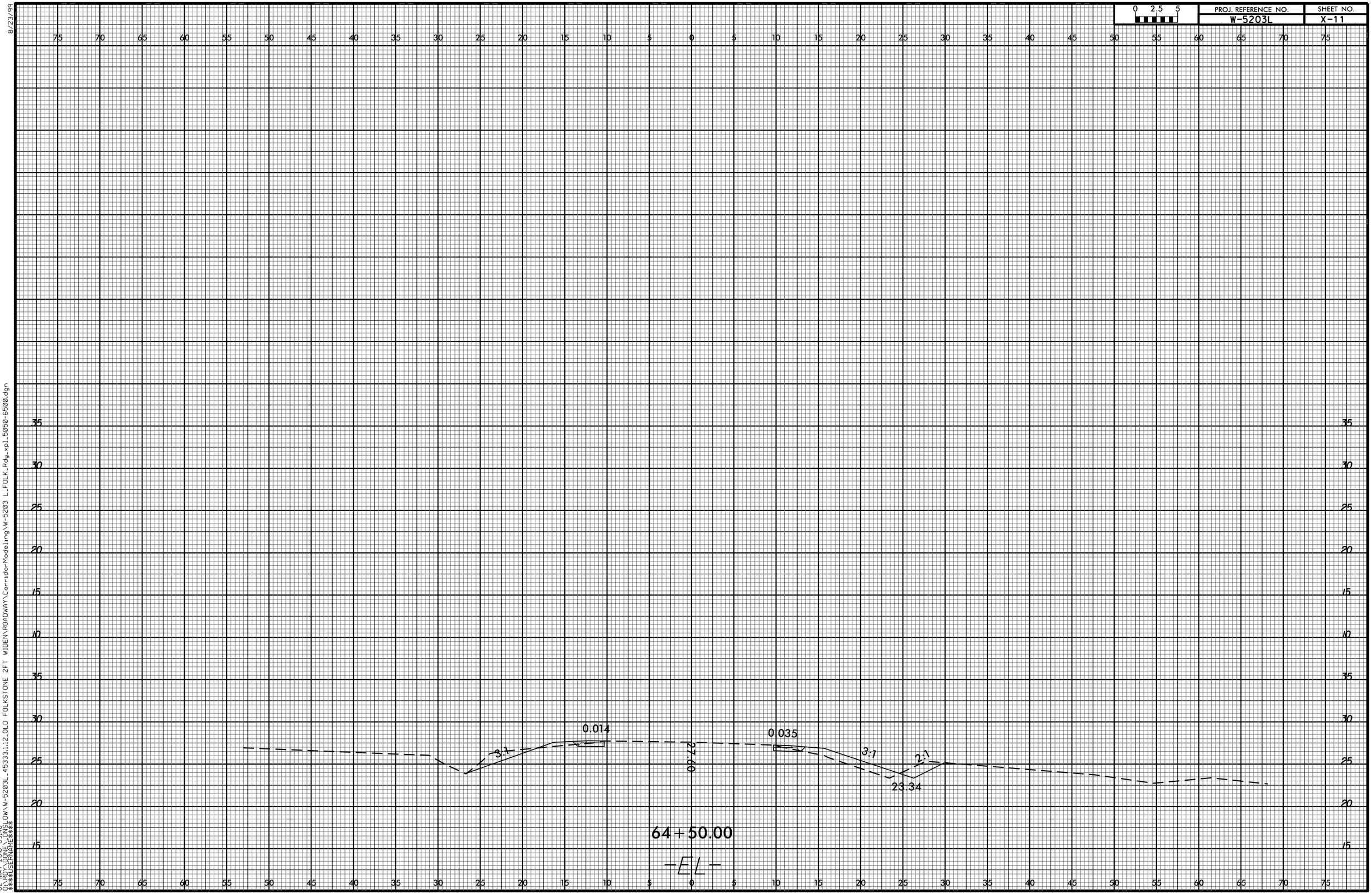

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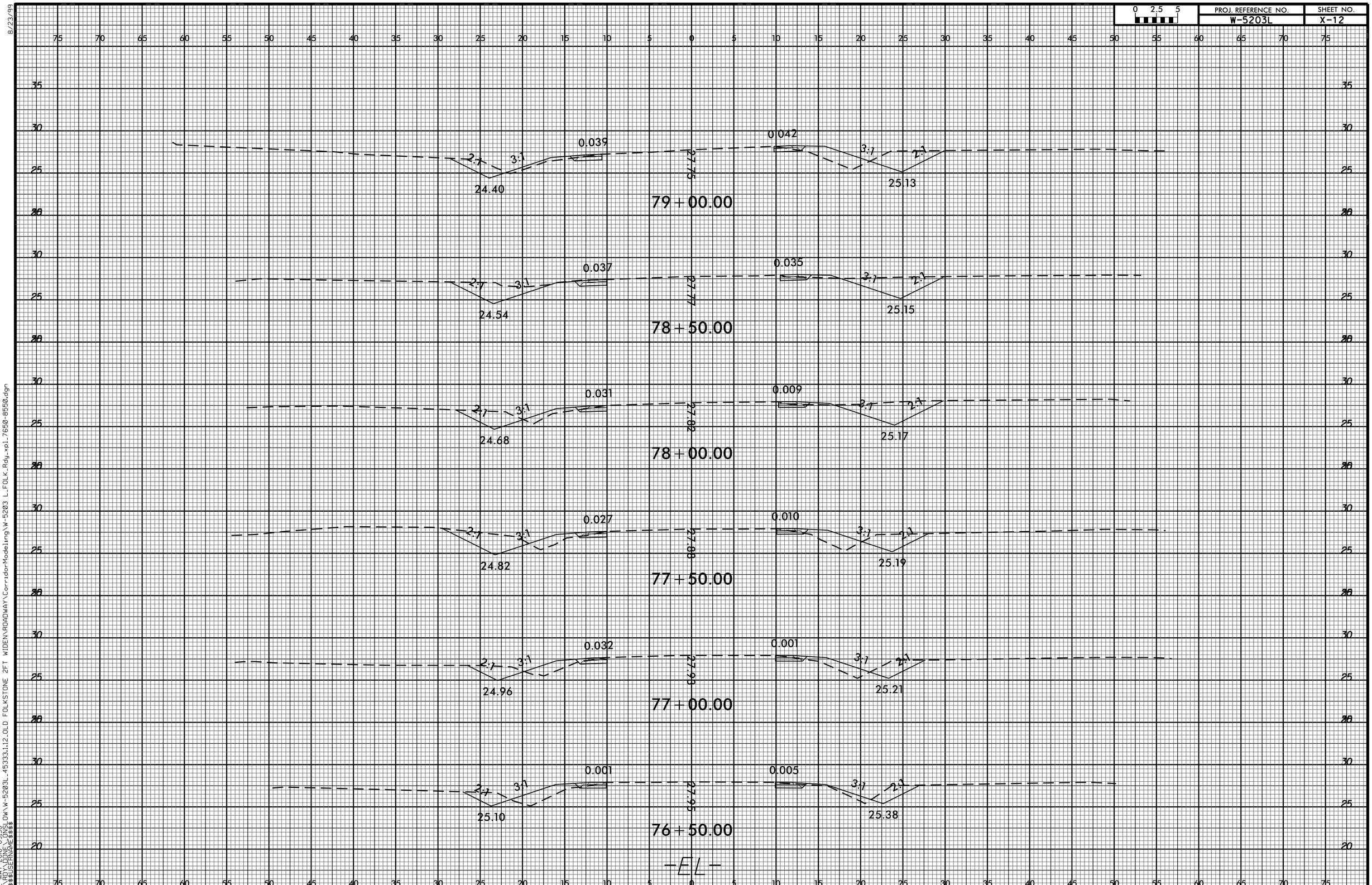

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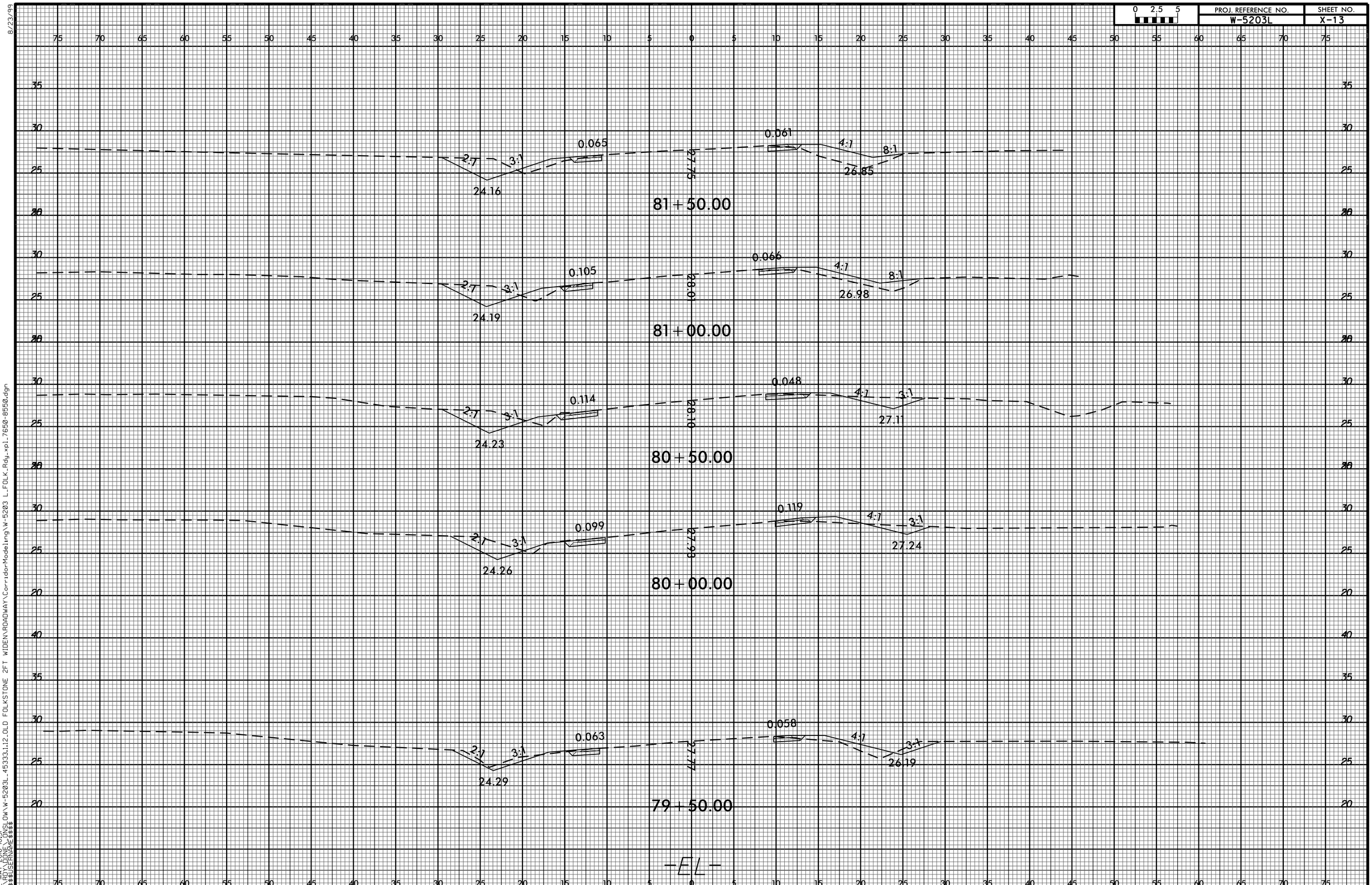

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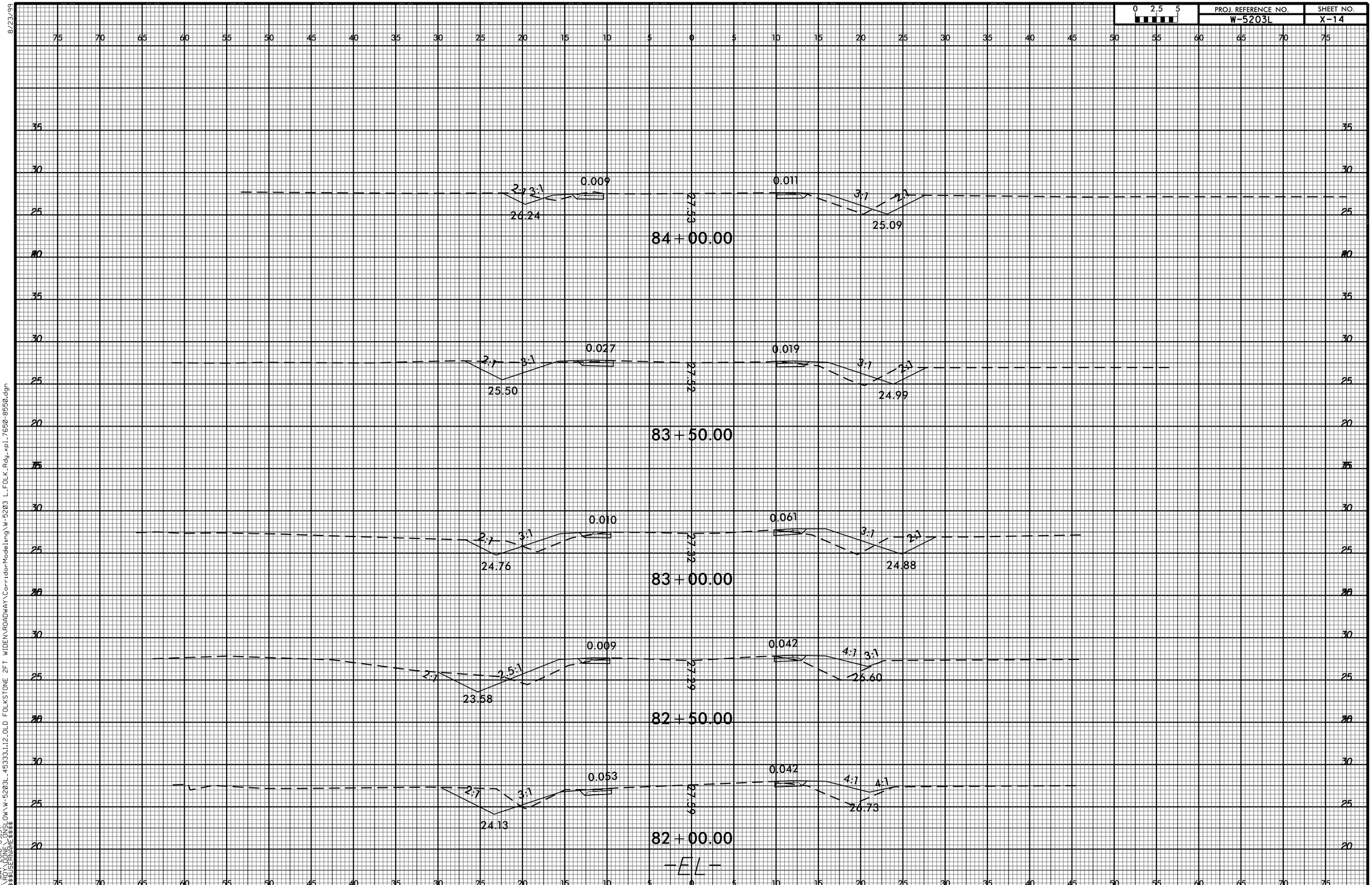

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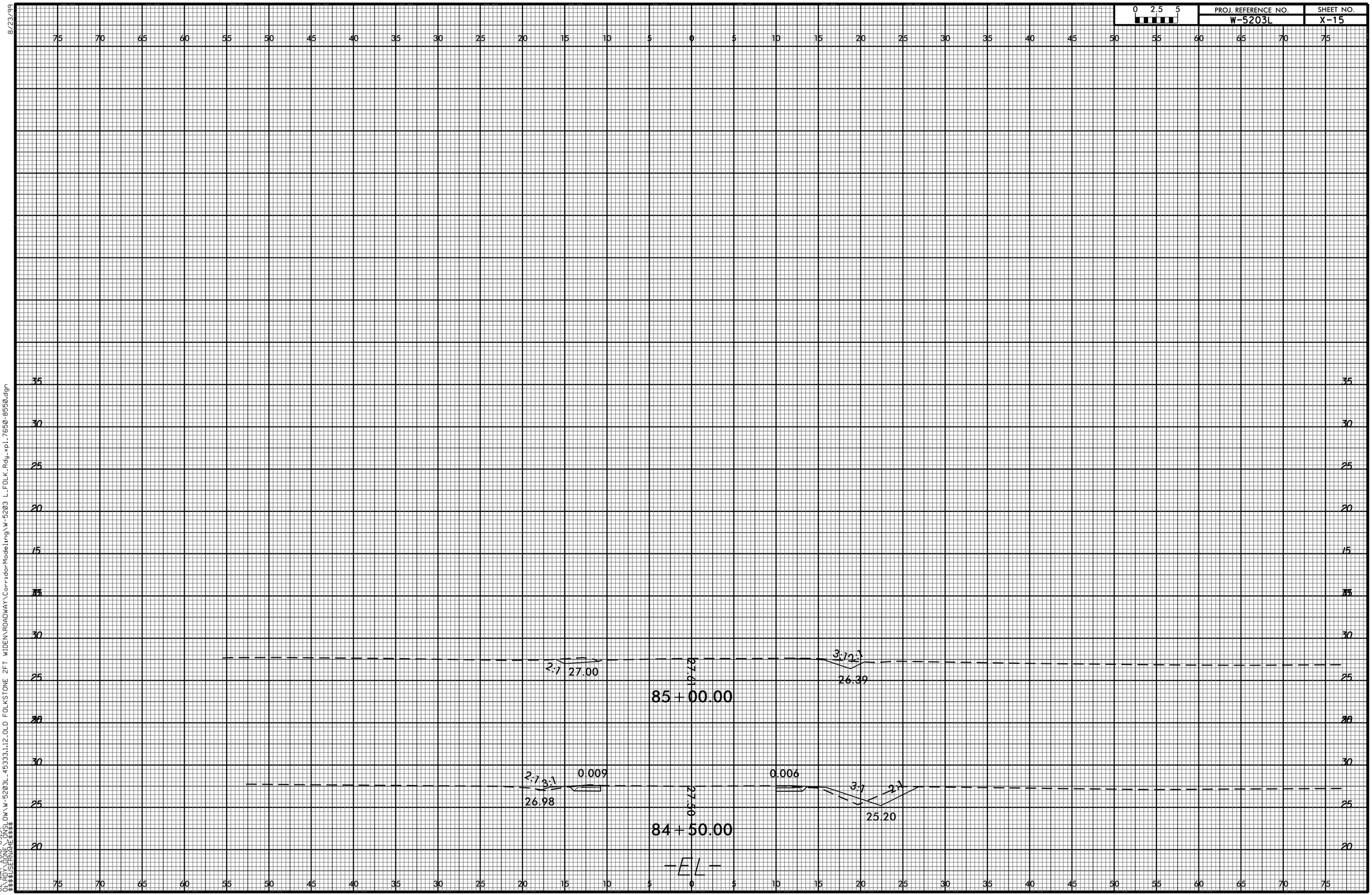

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