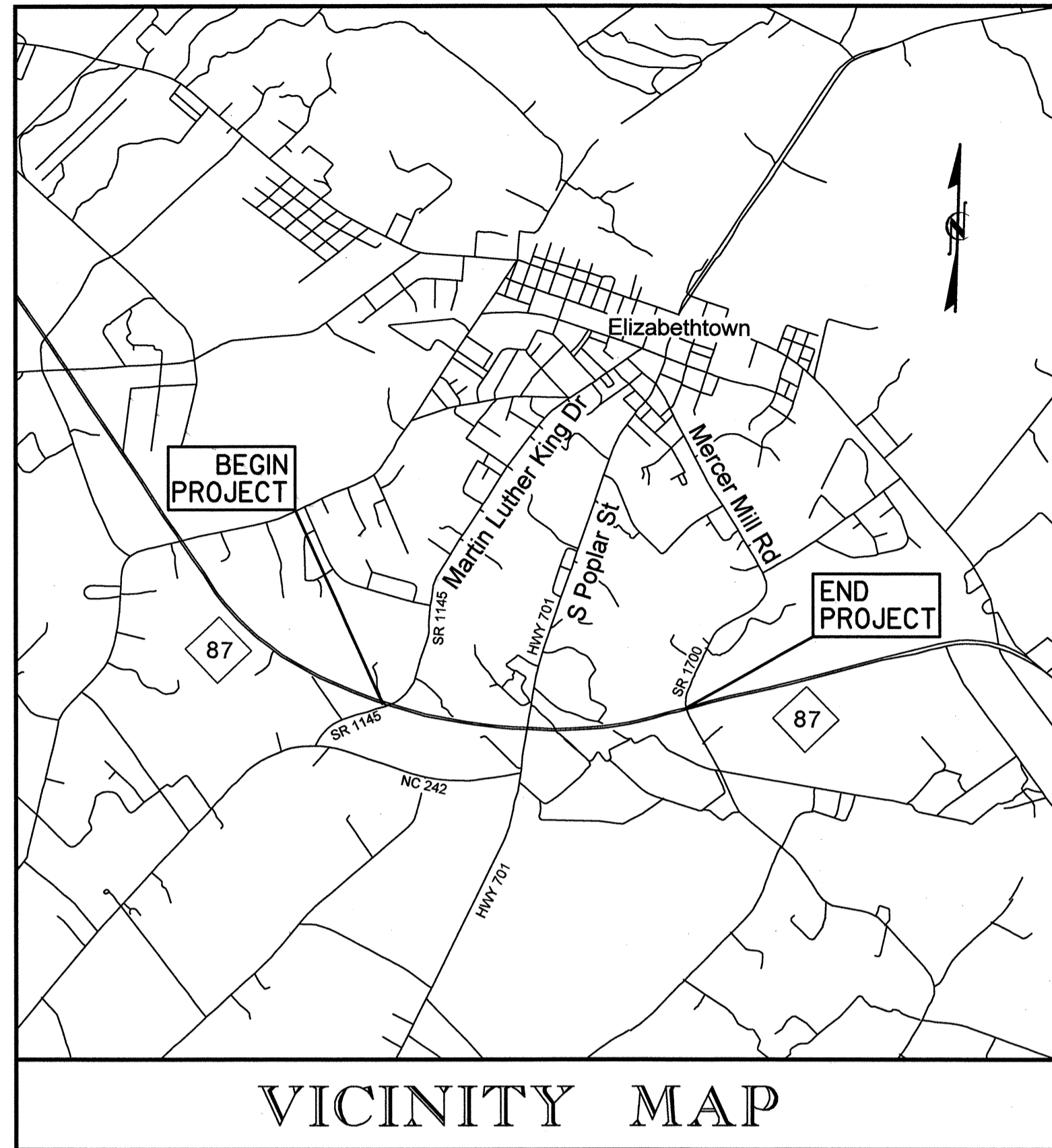


TIP PROJECT: W-5002

CONTRACT: C201906

SEE SHEET 1-B FOR CONVENTIONAL SYMBOLS



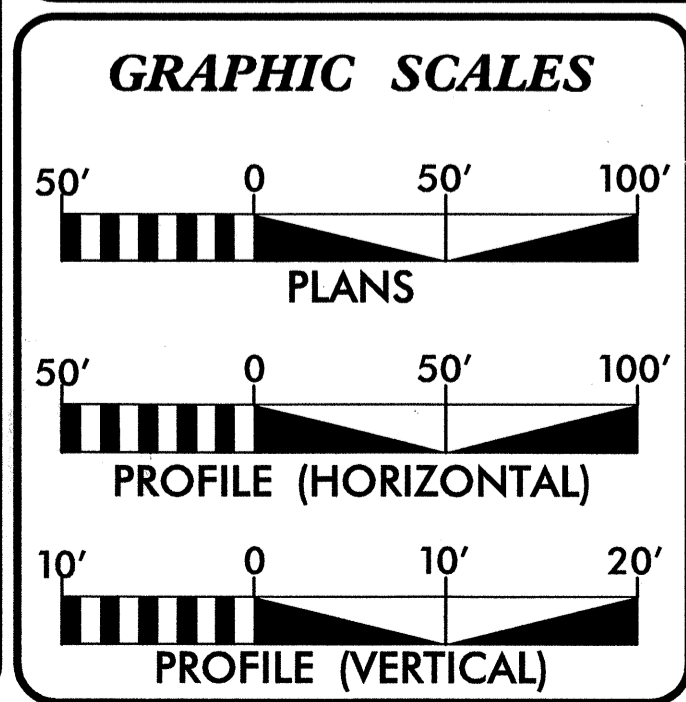
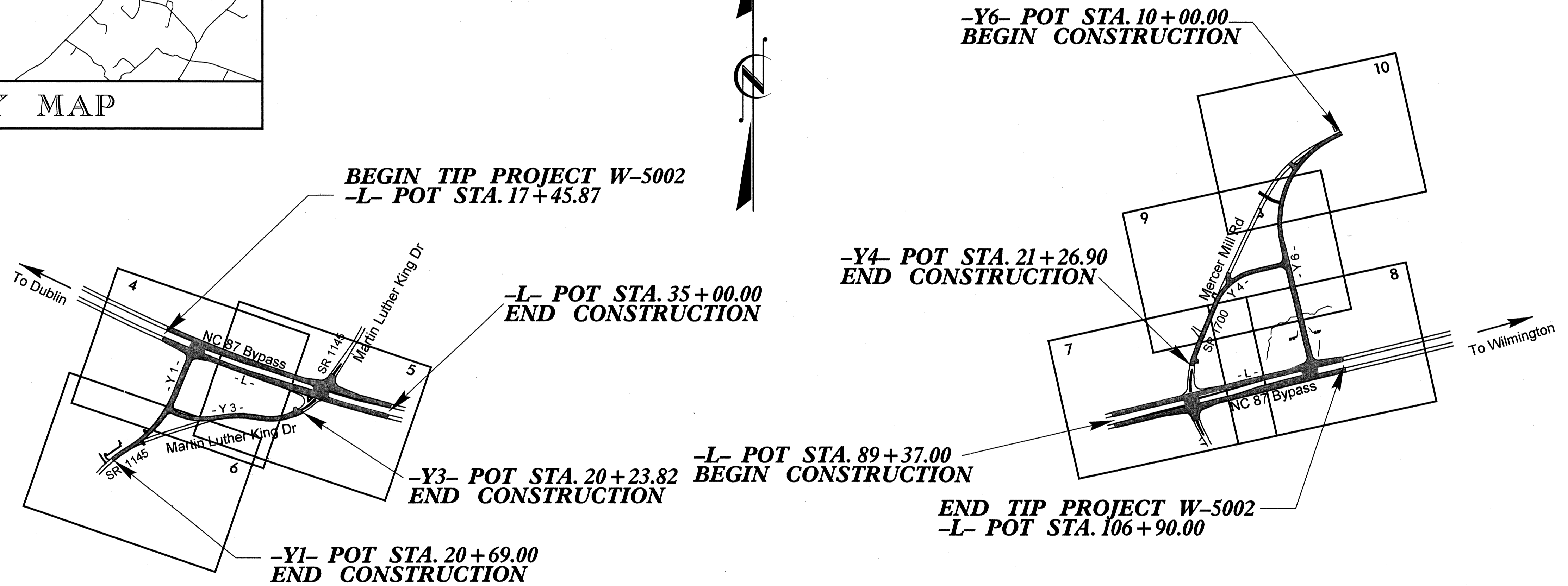
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BLADEN COUNTY

**LOCATION: NC 87 AT SR 1145 (MARTIN LUTHER KING DR)
AND SR 1700 (MERCER MILL RD)**

**TYPE OF WORK: WIDENING, GRADING, PAVING, DRAINAGE,
SIGNING & PAVEMENT MARKINGS.**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5002	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
41168.1.1	STPNHS-0087(17)	PE	
41168.2.1	STPNHS-0087(17)	R/W & UTILL.	
41168.3.1	STPNHS-0087(17)	CONST.	



DESIGN DATA

-L-
DS = 60 MPH

-Y-
DS = 50 MPH

PROJECT LENGTH

-L-	=	0.332
-L-	=	0.332
-Y1-	=	0.191
-Y3-	=	0.191
-Y4-	=	0.210
-Y6-	=	0.366
TOTAL		1.622 MILE

ARCADIS
G & M of North Carolina, Inc.
801 Corporate Center Drive, Suite 300
Raleigh, NC 27601-5073
Tel: 919/854-0282 Fax: 919/854-5448

2006 STANDARD SPECIFICATIONS

R/W DATE:
4 / 3 / 08

LETTING DATE:
9 / 16 / 08

WAZ ENGINEERING, PC
112 N. Main Street
Holly Springs, NC 27540
919.567.0495

ARCADIS CONTACT:

LAURA FISHER, P.E.
PROJECT ENGINEER

HYDRAULICS ENGINEER

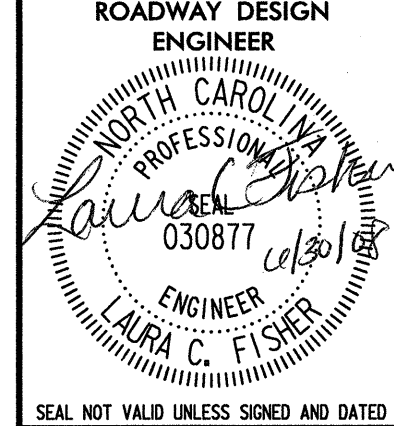
[Signature]
P.E.

SIGNATURE: SEAL NOT VALID UNLESS SIGNED AND DATED

ROADWAY DESIGN ENGINEER

[Signature]
P.E.

SIGNATURE: SEAL NOT VALID UNLESS SIGNED AND DATED



EFF. 07-18-06
REV. 01-02-07

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 -2B 2C 3	PAVEMENT SCHEDULE, TYPICAL SECTIONS ANCHORAGE FOR FRAMES SUMMARY OF QUANTITIES
3A THRU 3-B	SUMMARY OF DRAINAGE QUANTITIES AND EARTHWORK SUMMARY
4 THRU 10	PLAN SHEETS
11 THRU 13	PROFILE SHEETS
TCP-1 THRU TCP-9	TRAFFIC CONTROL PLANS
SIGN&PM-1 THRU SIGN&PM-9	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
X-1A THRU X-28	CROSS-SECTIONS

GENERAL NOTES:

2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED: 07-18-06

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.

SUPERELEVATION:

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

SHOULDER CONSTRUCTION:

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

SIDE ROADS:

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

DRIVEWAYS:

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

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:

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

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

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

2006 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 July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.26	Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
848.03	Driveway Turnout - Drop Curb Type
852.01	Concrete Islands
866.02	Woven Wire Fence - with Wood Post
876.02	Guide for Rip Rap at Pipe Outlets

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Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, Property Monument, Parcel/Sequence Number, Existing Fence Line, Proposed Woven Wire Fence, Proposed Chain Link Fence, Proposed Barbed Wire Fence, Existing Wetland Boundary, Proposed Wetland Boundary, Existing High Quality Wetland Boundary, Existing Endangered Animal Boundary, Existing Endangered Plant Boundary.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for Gas Pump Vent or U/G Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing symbols for Stream or Body of Water, Hydro, Pool or Reservoir, River Basin Buffer, Flow Arrow, Disappearing Stream, Spring, Swamp Marsh, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

Table listing symbols for Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing symbols for Baseline Control Point, Existing Right of Way Marker, Existing Right of Way Line, Proposed Right of Way Line, Proposed Right of Way Line with Iron Pin and Cap Marker, Proposed Right of Way Line with Concrete or Granite Marker, Existing Control of Access, Proposed Control of Access, Existing Easement Line, Proposed Temporary Construction Easement, Proposed Temporary Drainage Easement, Proposed Permanent Drainage Easement, Proposed Permanent Utility Easement.

ROADS AND RELATED FEATURES:

Table listing symbols for Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Wheel Chair Ramp, Curb Cut for Future Wheel Chair Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for Single Tree, Single Shrub, Hedge, Woods Line, Orchard, Vineyard.

EXISTING STRUCTURES:

Table listing symbols for Bridge, Tunnel or Box Culvert, Bridge Wing Wall, Head Wall and End Wall, Head and End Wall, Pipe Culvert, Footbridge, Drainage Box: Catch Basin, DI or JB, Paved Ditch Gutter, Storm Sewer Manhole, Storm Sewer.

UTILITIES:

Table listing symbols for 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, Designated U/G Power Line (S.U.E.*).

TELEPHONE:

Table listing symbols for 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, Designated U/G Telephone Cable (S.U.E.*), Recorded U/G Telephone Conduit, Designated U/G Telephone Conduit (S.U.E.*), Recorded U/G Fiber Optics Cable, Designated U/G Fiber Optics Cable (S.U.E.*).

WATER:

Table listing symbols for Water Manhole, Water Meter, Water Valve, Water Hydrant, Recorded U/G Water Line, Designated U/G Water Line (S.U.E.*), Above Ground Water Line.

TV:

Table listing symbols for TV Satellite Dish, TV Pedestal, TV Tower, U/G TV Cable Hand Hole, Recorded U/G TV Cable, Designated U/G TV Cable (S.U.E.*), Recorded U/G Fiber Optic Cable, Designated U/G Fiber Optic Cable (S.U.E.*).

GAS:

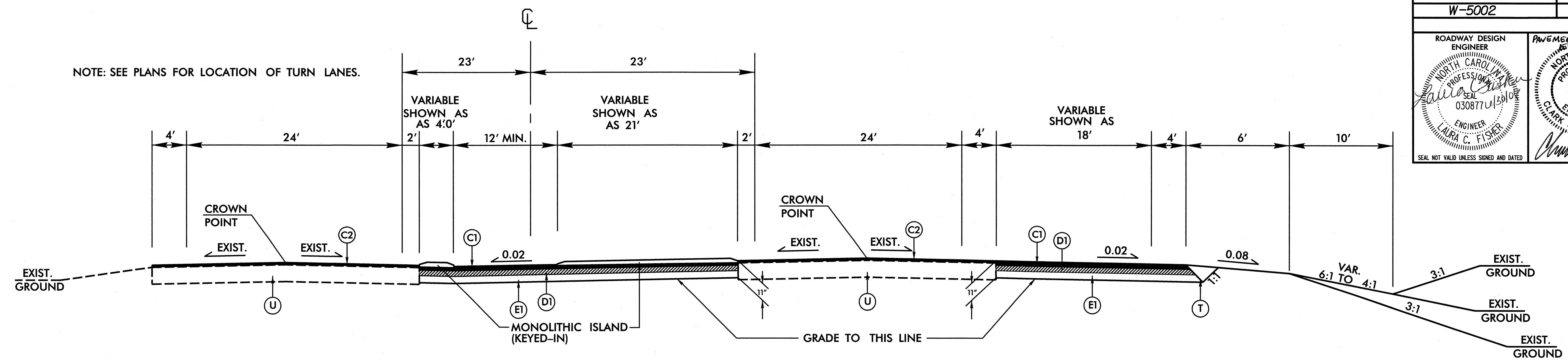
Table listing symbols for Gas Valve, Gas Meter, Recorded U/G Gas Line, Designated U/G Gas Line (S.U.E.*), Above Ground Gas Line.

SANITARY SEWER:

Table listing symbols for Sanitary Sewer Manhole, Sanitary Sewer Cleanout, U/G Sanitary Sewer Line, Above Ground Sanitary Sewer, Recorded SS Forced Main Line, Designated SS Forced Main Line (S.U.E.*).

MISCELLANEOUS:

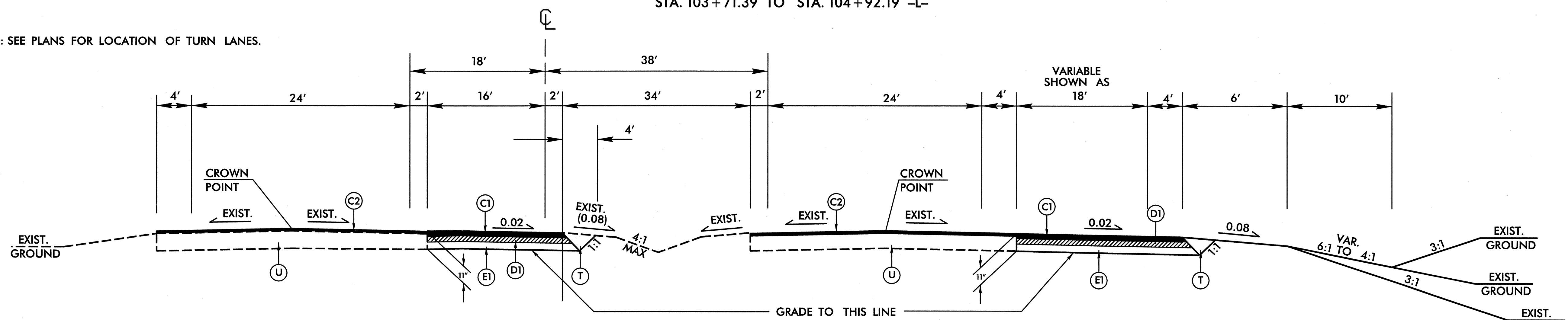
Table listing symbols for Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line, U/G Tank; Water, Gas, Oil, AG Tank; Water, Gas, Oil, U/G Test Hole (S.U.E.*), Abandoned According to Utility Records, End of Information.



TYPICAL SECTION NO. 1

STA. 19+44.32 TO STA. 20+66.18 -L-
 STA. 29+13.03 TO STA. 30+35.96 -L-
 STA. 94+73.39 TO STA. 95+89.49 -L-
 STA. 103+71.39 TO STA. 104+92.19 -L-

NOTE: SEE PLANS FOR LOCATION OF TURN LANES.



TYPICAL SECTION NO. 2

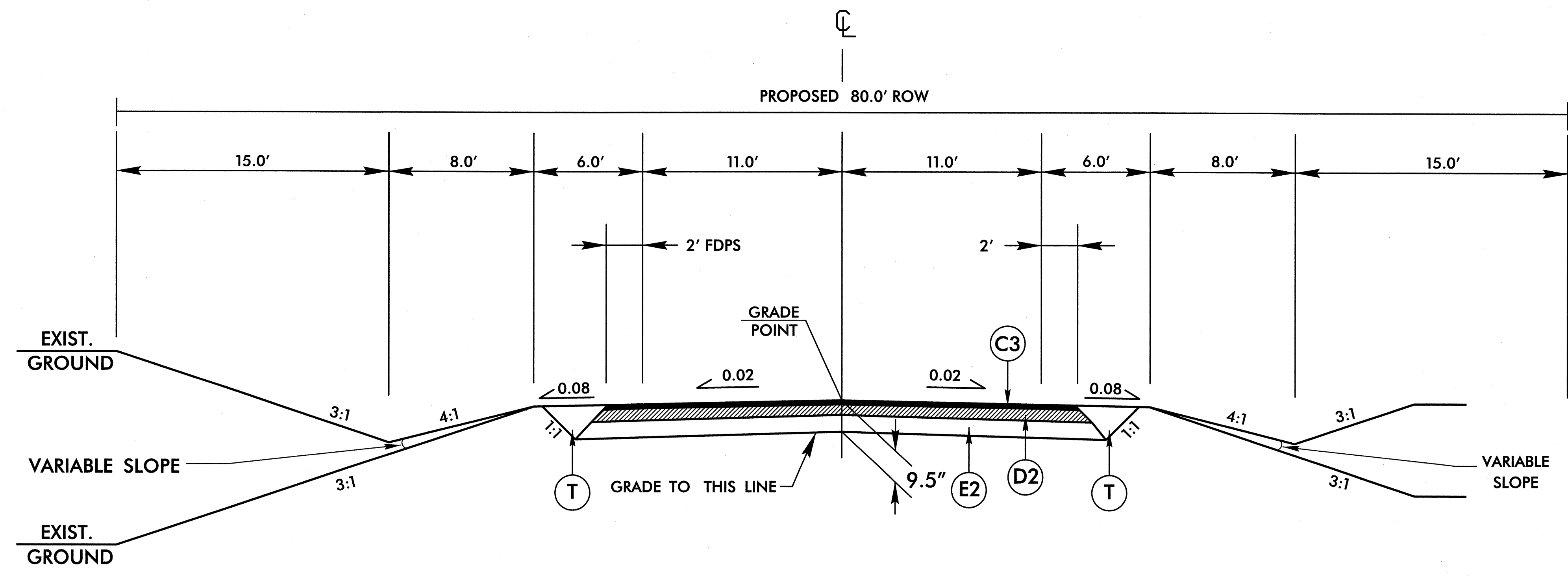
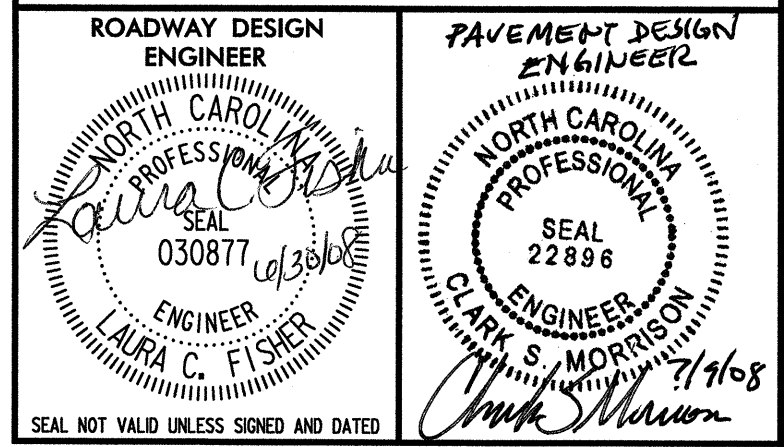
STA. 17+45.87 TO STA. 19+44.32 -L-
 STA. 20+66.18 TO STA. 29+13.03 -L-
 STA. 30+39.96 TO STA. 35+00.00 -L-
 STA. 89+37.00 TO STA. 94+73.39 -L-
 STA. 95+89.49 TO STA. 103+71.39 -L-
 STA. 104+92.19 TO STA. 106+90.00 -L-

CODE	PAVEMENT SCHEDULE
C1	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. TO BE PLACED IN LAYERS NOT LESS THAN 1.5" OR GREATER THAN 3".
D1	PROP. APPROX. 3.0" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. APPROX. 3.0" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D3	PROP. VAR. ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4".
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROP. VAR. ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5".
U	EXISTING PAVEMENT
T	EARTH MATERIAL
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

8/17/99

REVISIONS

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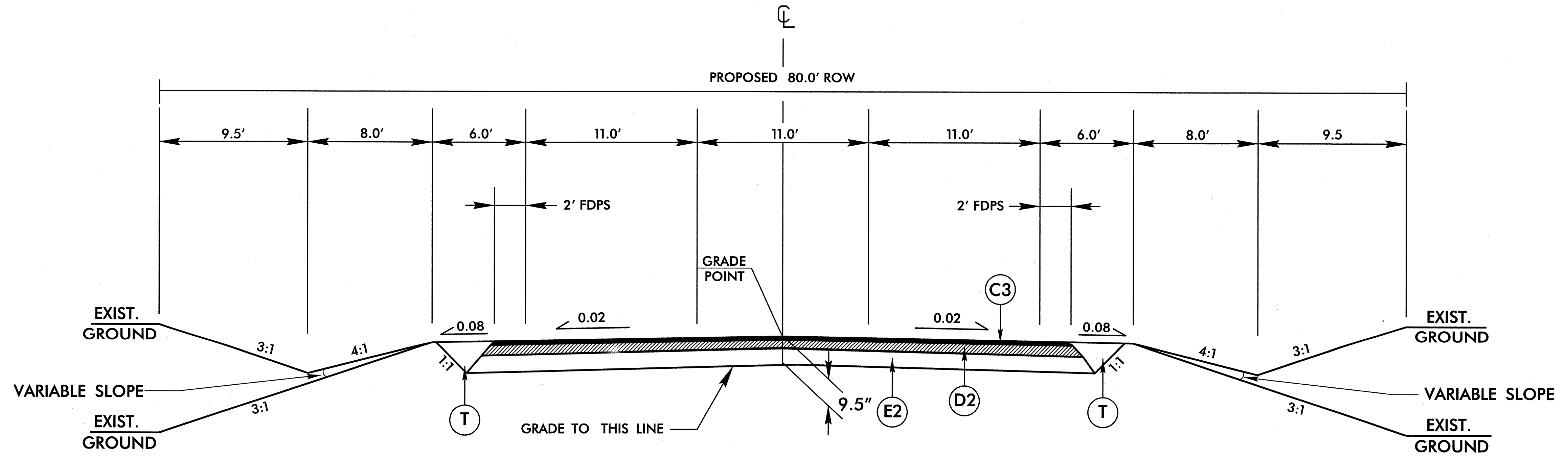


TYPICAL SECTION NO. 3

STA. 15+11.00 TO STA. 18+03.00 -Y1-
 STA. 10+15.00 TO STA. 12+68.00 -Y3-
 STA. 10+16.50 TO STA. 14+95.00 -Y4-
 STA. 12+87.00 TO STA. 21+64.00 -Y6-

NOTE: OVERLAY EXISTING -Y3- FROM STA. 15+00.00 TO 20+23.82 W/1.5" S9.5B.
 NOTE: OVERLAY EXISTING -Y4- FROM STA. 17+40.00 TO 21+26.90 W/1.5" S9.5B.

PAVEMENT SCHEDULE	
C1	3.0" TYPE S9.5C
C2	1.5" TYPE S9.5C
C3	1.5" TYPE S9.5B
C4	VAR. TYPE S9.5B
D1	3.0" TYPE 119.0C
D2	3.0" TYPE 119.0B
D3	VAR. TYPE 119.0B
E1	5.0" TYPE B25.0C
E2	5.0" TYPE B25.0B
E3	VAR. TYPE B25.0B
U	EXISTING PAVEMENT
T	EARTH MATERIAL
W	WEDGING



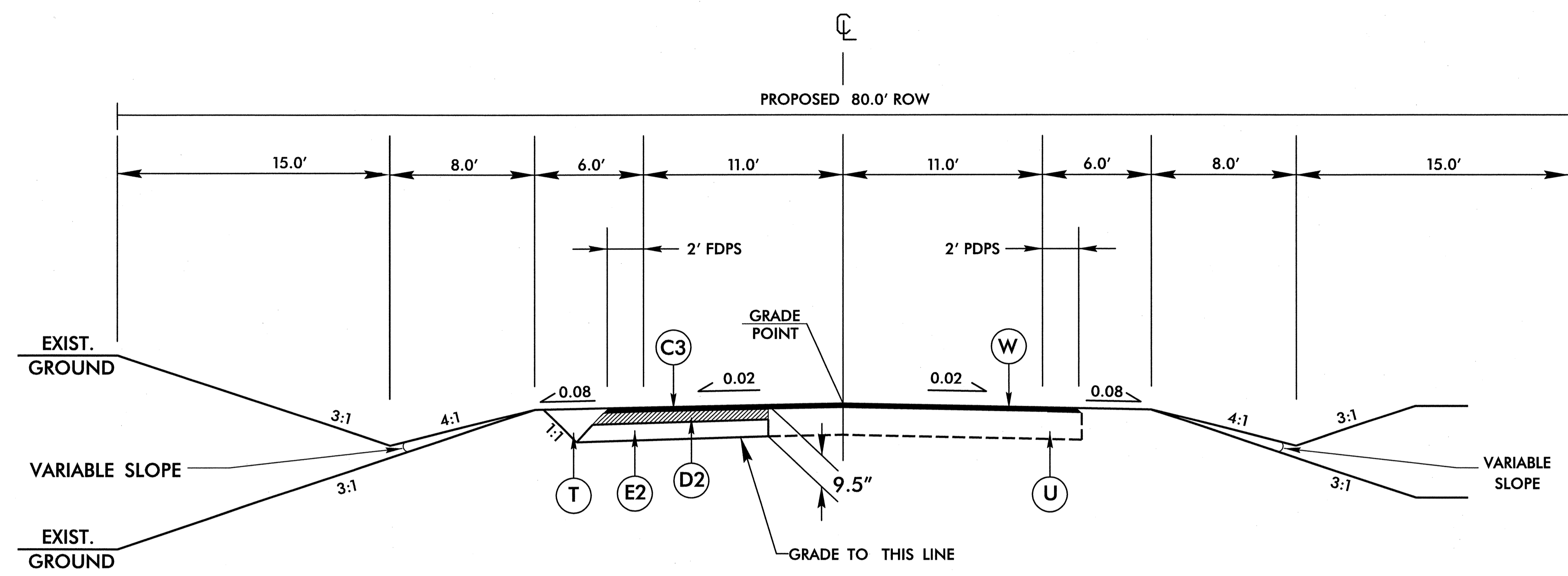
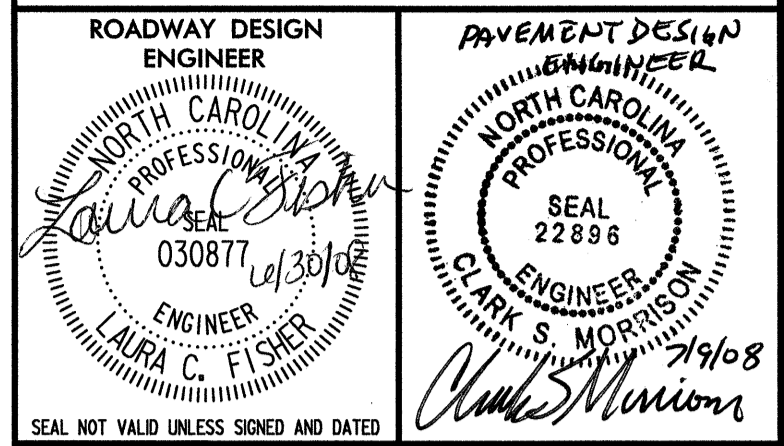
TYPICAL SECTION NO. 4

STA. 10+58.10 TO STA. 15+11.00 -Y1-
 STA. 21+64.00 TO STA. 29+16.37 -Y6-

REVISIONS

8/17/99

6/30/2008
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 R & M



PAVEMENT SCHEDULE	
C1	3.0" TYPE S9.5C
C2	1.5" TYPE S9.5C
C3	1.5" TYPE S9.5B
C4	VAR. TYPE S9.5B
D1	3.0" TYPE 119.0C
D2	3.0" TYPE 119.0B
D3	VAR. TYPE 119.0B
E1	5.0" TYPE B25.0C
E2	5.0" TYPE B25.0B
E3	VAR. TYPE B25.0B
U	EXISTING PAVEMENT
T	EARTH MATERIAL
W	WEDGING

TYPICAL SECTION NO. 5

- STA. 18+03.00 TO STA. 20+69.00 -Y1-
- STA. 12+68.00 TO STA. 15+00.00 -Y3-
- STA. 14+95.00 TO STA. 17+40.00 -Y4-
- STA. 10+00.00 TO STA. 12+87.00 -Y6-

MILLING AT PAVEMENT TIE-INS

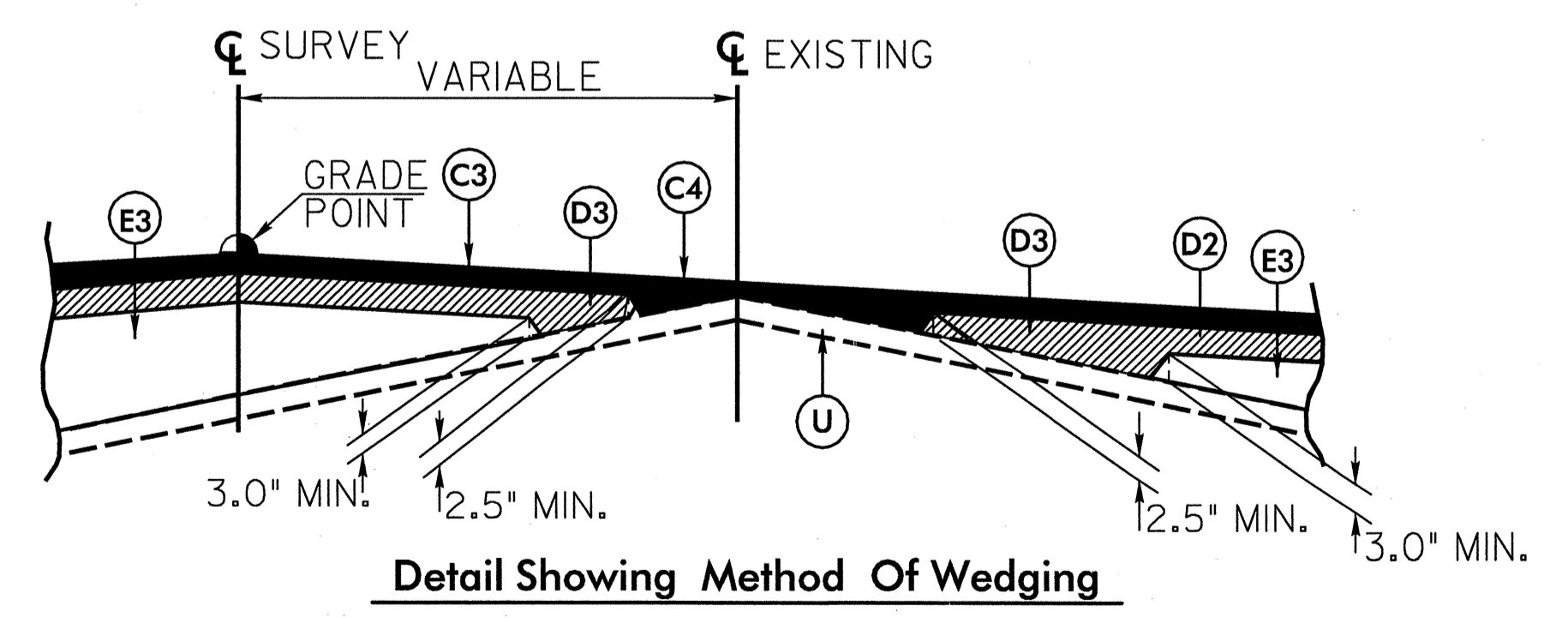
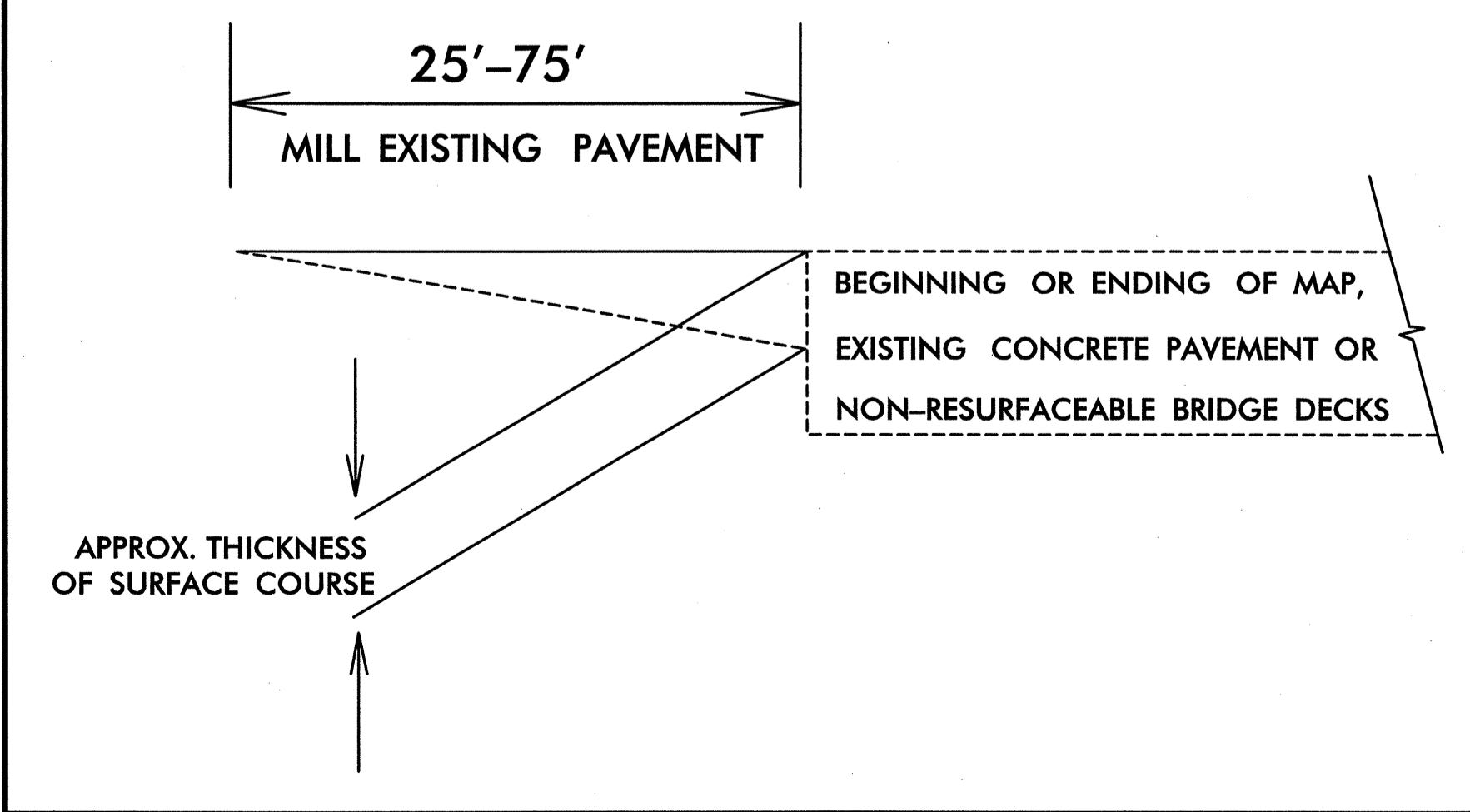
NOTES TO CONTRACTOR

For surface mixes over 1" in thickness, mill the existing pavement in accordance with the following sketch as directed by the Engineer.

Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

Perform the work in accordance with Section 607 of the January 2006 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

Payment for this item will be made under: Incidental Milling (SY)



REVISIONS

8/17/99

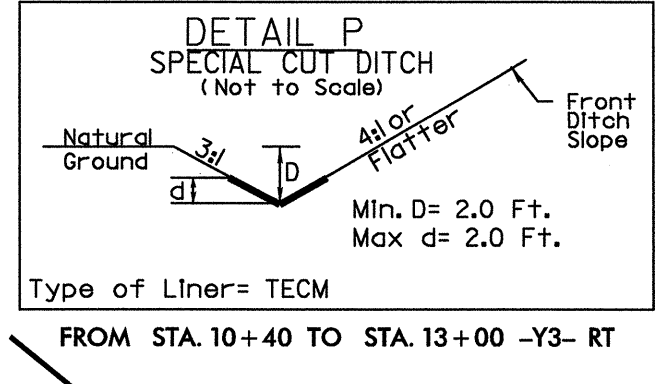
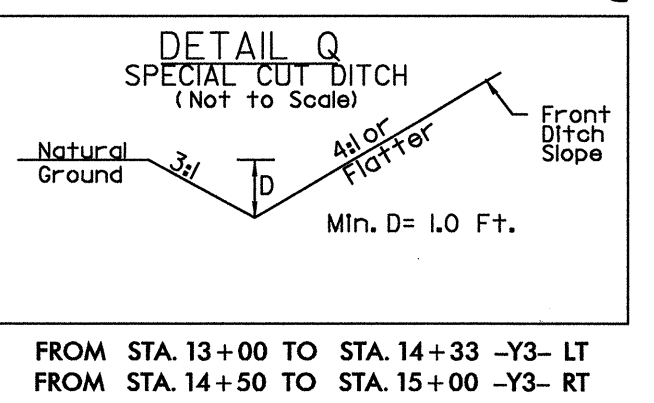
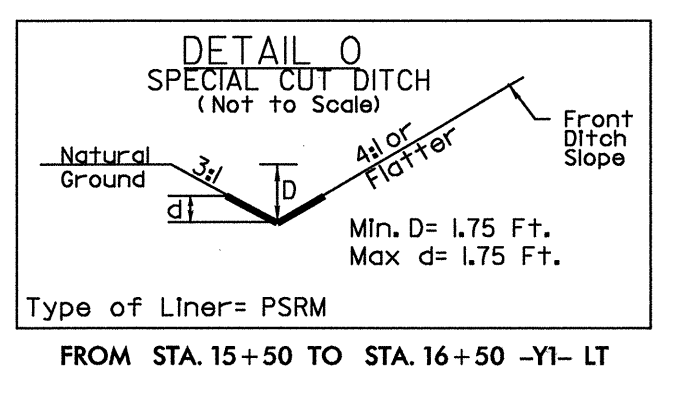
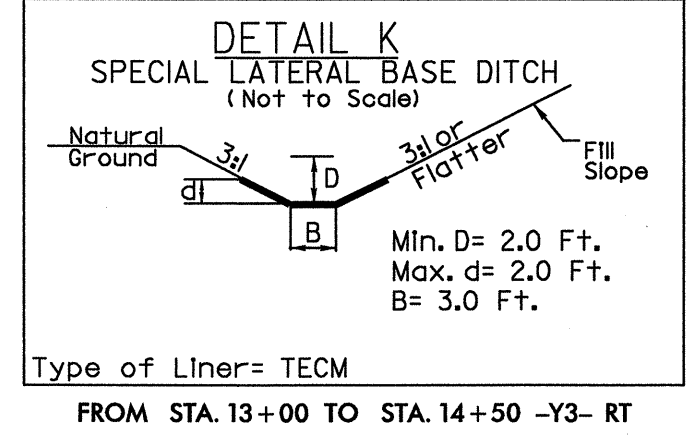
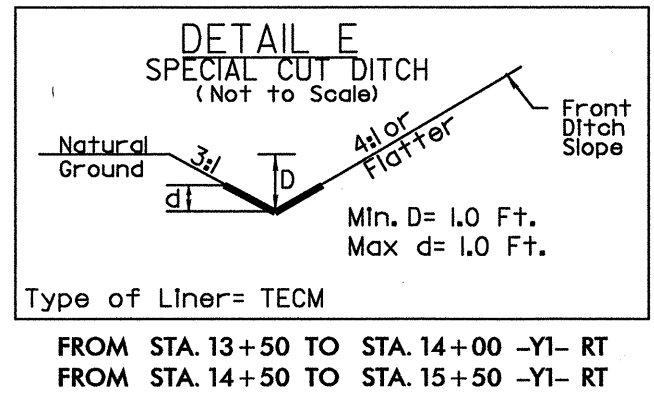
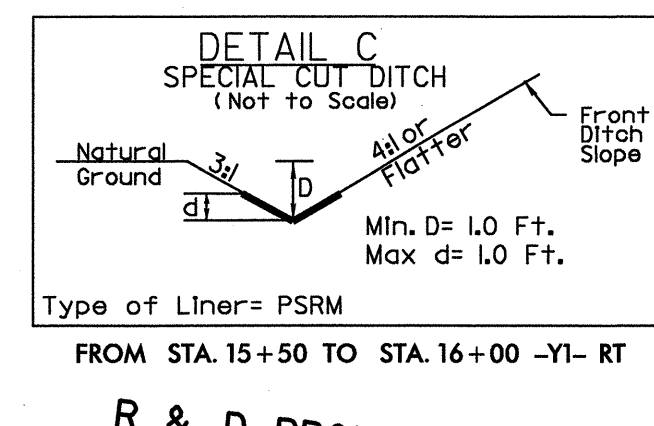
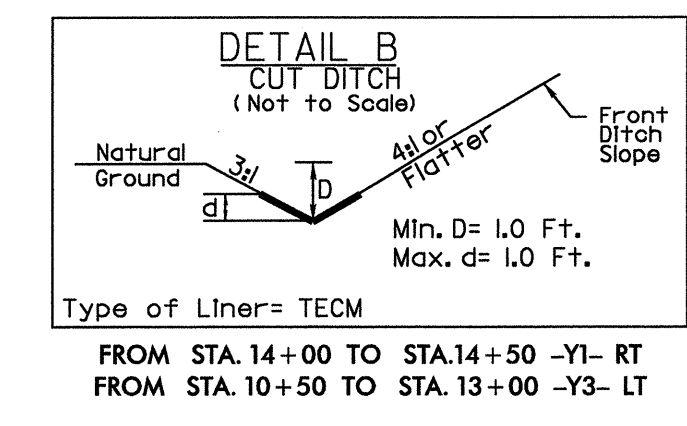
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201906

ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION
002200000-E	225	23,200	CY	UNCLASSIFIED EXCAVATION
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
006300000-N	SP	Lump Sum		GRADING
031800000-E	300	110	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
034300000-E	310	176	LF	15" SIDE DRAIN PIPE
036600000-E	310	172	LF	15" RC PIPE CULVERTS, CLASS III
037200000-E	310	408	LF	18" RC PIPE CULVERTS, CLASS III
037800000-E	310	204	LF	24" RC PIPE CULVERTS, CLASS III
038400000-E	310	16	LF	30" RC PIPE CULVERTS, CLASS III
040200000-E	310	100	LF	48" RC PIPE CULVERTS, CLASS III
099500000-E	340	30	LF	PIPE REMOVAL
122000000-E	545	16	TON	INCIDENTAL STONE BASE
133000000-E	607	300	SY	INCIDENTAL MILLING
148900000-E	610	2,900	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
149100000-E	610	1,340	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
149800000-E	610	1,740	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
150300000-E	610	810	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C
151900000-E	610	1,280	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
152300000-E	610	2,950	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
156000000-E	620	380	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
156500000-E	620	180	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
169300000-E	654	100	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
220900000-E	838	6	CY	ENDWALLS
225300000-E	840	0.6	CY	PIPE COLLARS
228600000-N	840	4	EA	MASONRY DRAINAGE STRUCTURES
230800000-E	840	15.3	LF	MASONRY DRAINAGE STRUCTURES
236500000-N	840	3	EA	FRAME WITH TWO GRATES, STD 840.22
261200000-E	848	290	SY	6" CONCRETE DRIVEWAY
265500000-E	852	1,930	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
350300000-E	866	1,270	LF	WOVEN WIRE FENCE, 47" FABRIC
350900000-E	866	80	EA	4" TIMBER FENCE POSTS, 7'-6" LONG
351500000-E	866	30	EA	5" TIMBER FENCE POSTS, 8'-0" LONG
362800000-E	876	435	TON	RIP RAP, CLASS I
363500000-E	876	22	TON	RIP RAP, CLASS II
364900000-E	876	25	TON	RIP RAP, CLASS B
365600000-E	876	470	SY	FILTER FABRIC FOR DRAINAGE
402500000-E	901	263	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (E)
402500000-E	901	156	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (F)
407200000-E	903	924	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
410200000-N	904	43	EA	SIGN ERECTION, TYPE E
410800000-N	904	12	EA	SIGN ERECTION, TYPE F
440000000-E	1110	80	SF	WORK ZONE SIGNS (STATIONARY)
440500000-E	1110	396	SF	WORK ZONE SIGNS (PORTABLE)
441000000-E	1110	80	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
441500000-N	1115	2	EA	FLASHING ARROW PANELS, TYPE C
442000000-N	1120	2	EA	CHANGEABLE MESSAGE SIGN
443000000-N	1130	296	EA	DRUMS

ItemNumber	Sec #	Quantity	Unit	Description
443500000-N	1135	35	EA	CONES
444500000-E	1145	160	LF	BARRICADES (TYPE III)
445000000-N	1150	192	HR	FLAGGER
448000000-N	1165	2	EA	TMA
468500000-E	1205	21,088	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
468600000-E	1205	8,588	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
469700000-E	1205	107	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
472500000-E	1205	38	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
481000000-E	1205	13,550	LF	PAINT PAVEMENT MARKING LINES (4")
484500000-N	1205	37	EA	PAINT PAVEMENT MARKING SYMBOL
490000000-N	1251	275	EA	PERMANENT RAISED PAVEMENT MARKERS
600000000-E	1605	3,900	LF	TEMPORARY SILT FENCE
600600000-E	1610	125	TON	STONE FOR EROSION CONTROL, CLASS A
600900000-E	1610	390	TON	STONE FOR EROSION CONTROL, CLASS B
601200000-E	1610	200	TON	SEDIMENT CONTROL STONE
602900000-E	SP	490	LF	SAFETY FENCE
603000000-E	1630	4,900	CY	SILT EXCAVATION
603600000-E	1631	4,955	SY	MATTING FOR EROSION CONTROL
603800000-E	SP	693	SY	PERMANENT SOIL REINFORCEMENT MAT
604200000-E	1632	245	LF	1/4" HARDWARE CLOTH
6071030000-E	SP	460	LF	COIR FIBER BAFFLES
608400000-E	1660	6	ACR	SEEDING & MULCHING
608700000-E	1660	6	ACR	MOWING
609000000-E	1661	300	LB	SEED FOR REPAIR SEEDING
609300000-E	1661	0.5	TON	FERTILIZER FOR REPAIR SEEDING
609600000-E	1662	900	LB	SEED FOR SUPPLEMENTAL SEEDING
610800000-E	1665	25	TON	FERTILIZER TOPDRESSING
611700000-N	SP	8	EA	RESPONSE FOR EROSION CONTROL



-Y1-	-Y3-	-Y1-	-Y3-
PI Sta 16+71.80	PI Sta 11+91.54	PI Sta 15+57.95	
$\Delta = 36' 33'' 17.3''$ (RT)	$\Delta = 36' 30'' 32.1''$ (LT)	$\Delta = 20' 13'' 01.2''$ (RT)	
$D = 6' 21'' 58.3''$	$D = 8' 11'' 06.4''$	$D = 8' 11'' 06.4''$	
$L = 574.20'$	$L = 318.60'$	$L = 247.00'$	
$T = 297.25'$	$T = 164.92'$	$T = 124.80'$	
$R = 900.00'$	$R = 500.00'$	$R = 700.00'$	
$DS = 50$ MPH	$DS = 40$ MPH	$DS = 45$ MPH	
$SE = .06$	$SE = .05$	$SE = EXISTING$	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R4903-2"

WITH NAD 83/2001 STATE PLANE GRID COORDINATES OF NORTHING: 312198.596(±) EASTING: 2110291.935(±)

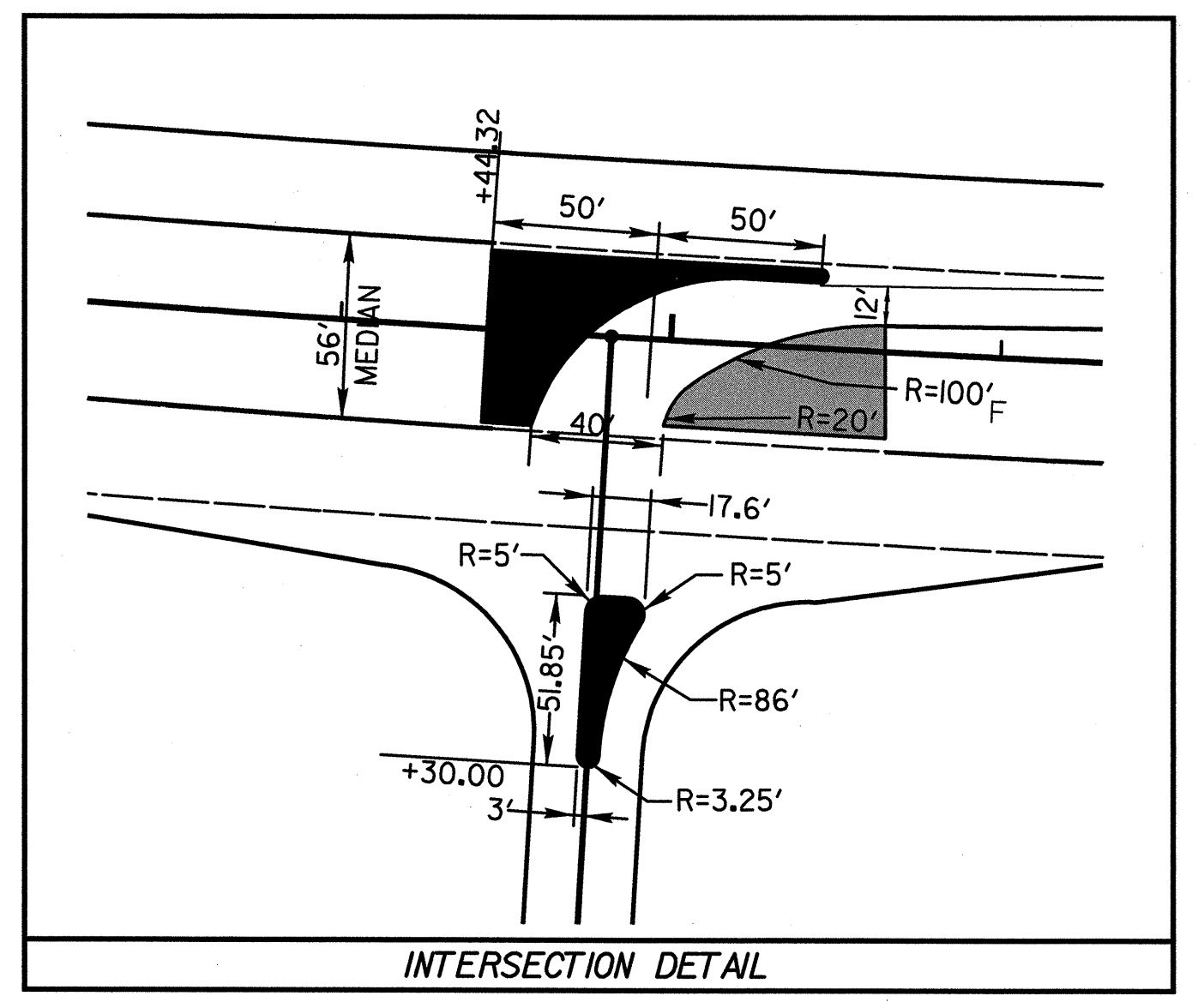
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00006237

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R4903-2" TO -L- STATION 17+45.87 IS S 64° 55' 47.86" E 912.2713'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

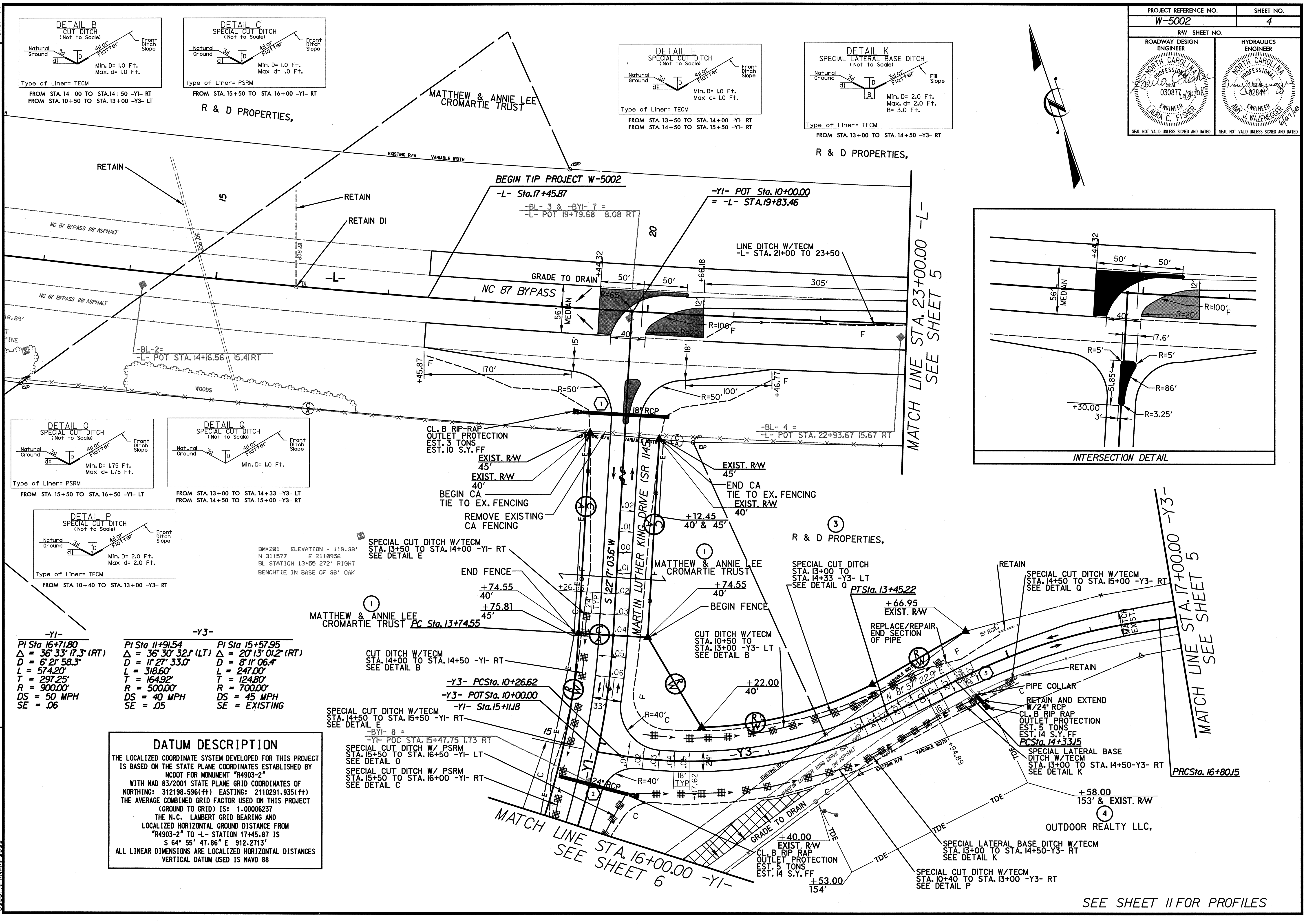
VERTICAL DATUM USED IS NAVD 88

BM*201 ELEVATION = 118.38'
N 311577 E 2110956
BL STATION 13+55 272' RIGHT
BENCHMITE IN BASE OF 36" OAK



SEE SHEET 11 FOR PROFILES

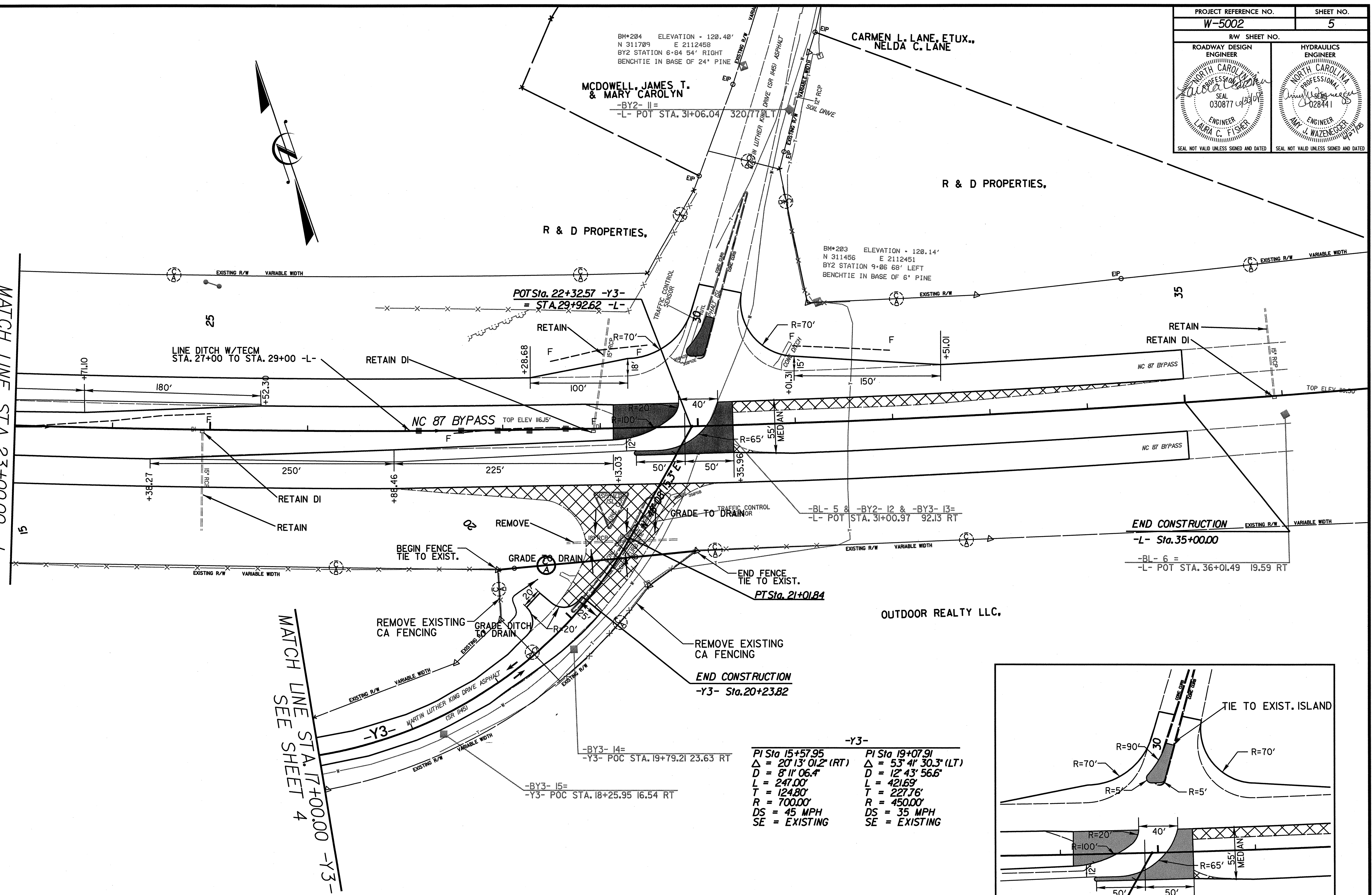
8/17/99 REVISIONS



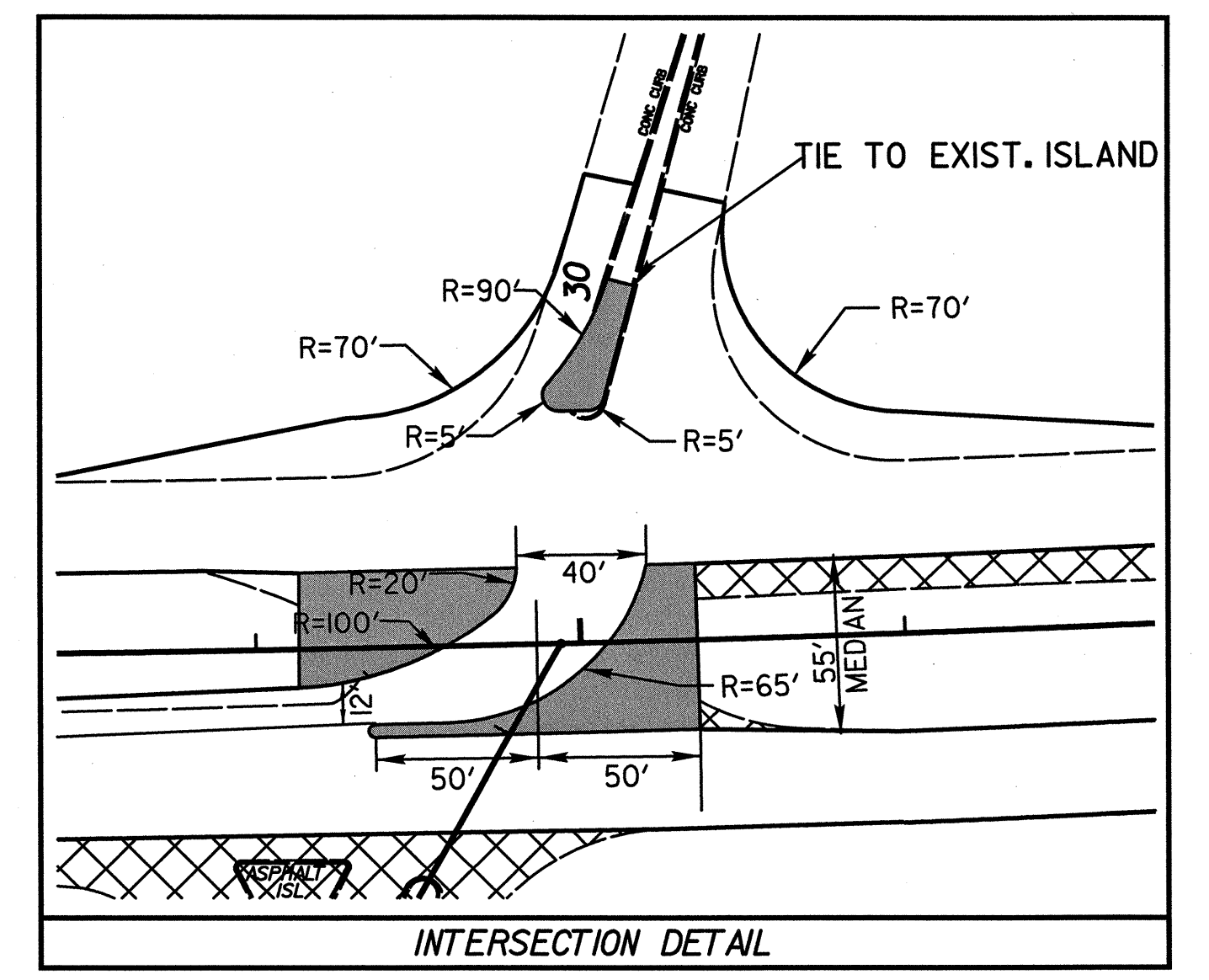
8/17/99

MATCH LINE STA. 23+00.00 -L-
SEE SHEET 4

MATCH LINE STA. 17+00.00 -Y3-
SEE SHEET 4



-Y3-	
PI Sta 15+57.95	PI Sta 19+07.91
$\Delta = 20' 13" 01.2" (RT)$	$\Delta = 53' 41" 30.3" (LT)$
$D = 8' 11" 06.4"$	$D = 12' 43" 56.6"$
$L = 247.00'$	$L = 421.69'$
$T = 124.80'$	$T = 227.76'$
$R = 700.00'$	$R = 450.00'$
$DS = 45 MPH$	$DS = 35 MPH$
$SE = EXISTING$	$SE = EXISTING$



SEE SHEET II FOR PROFILES

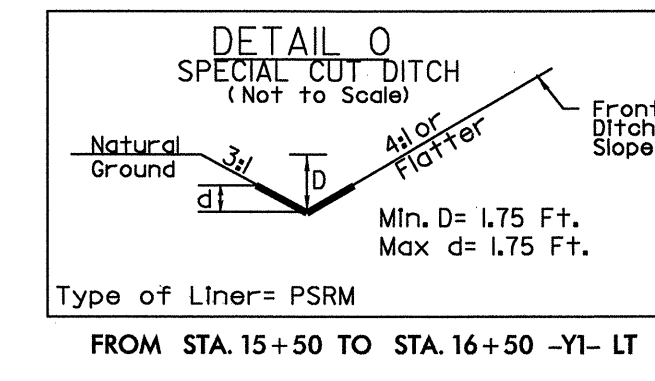
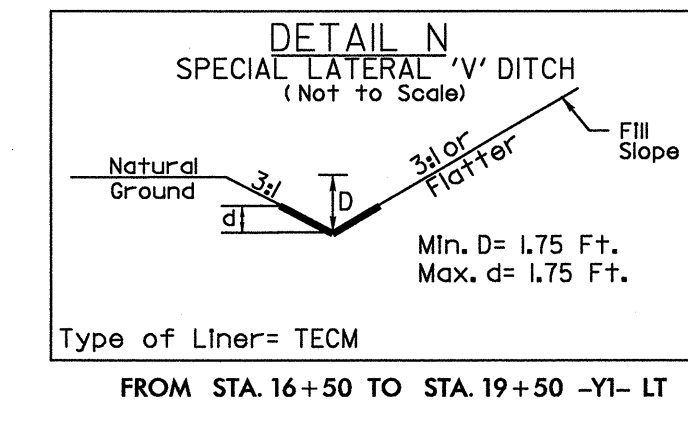
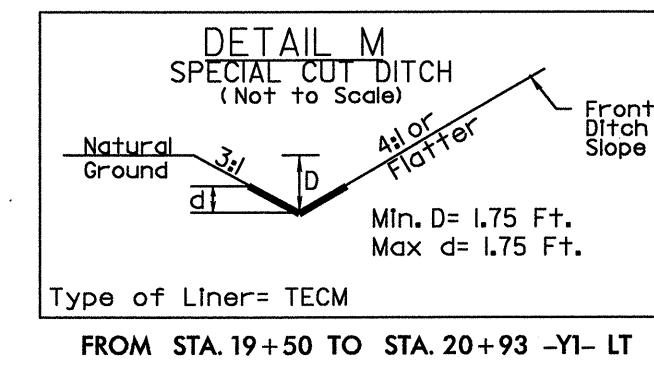
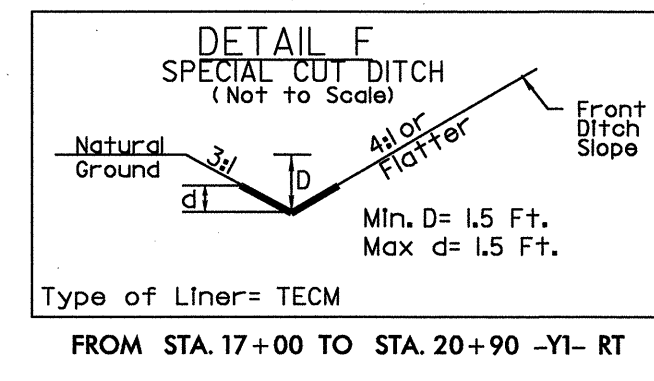
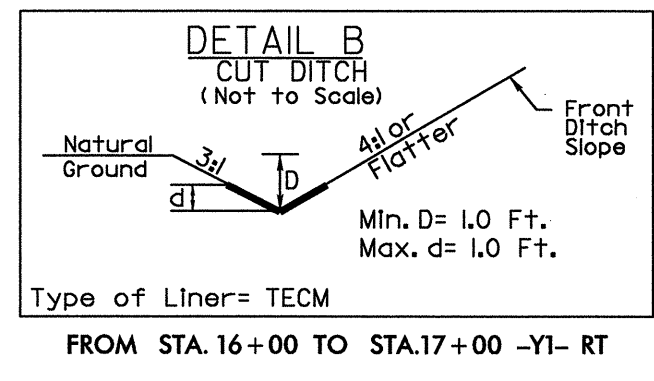
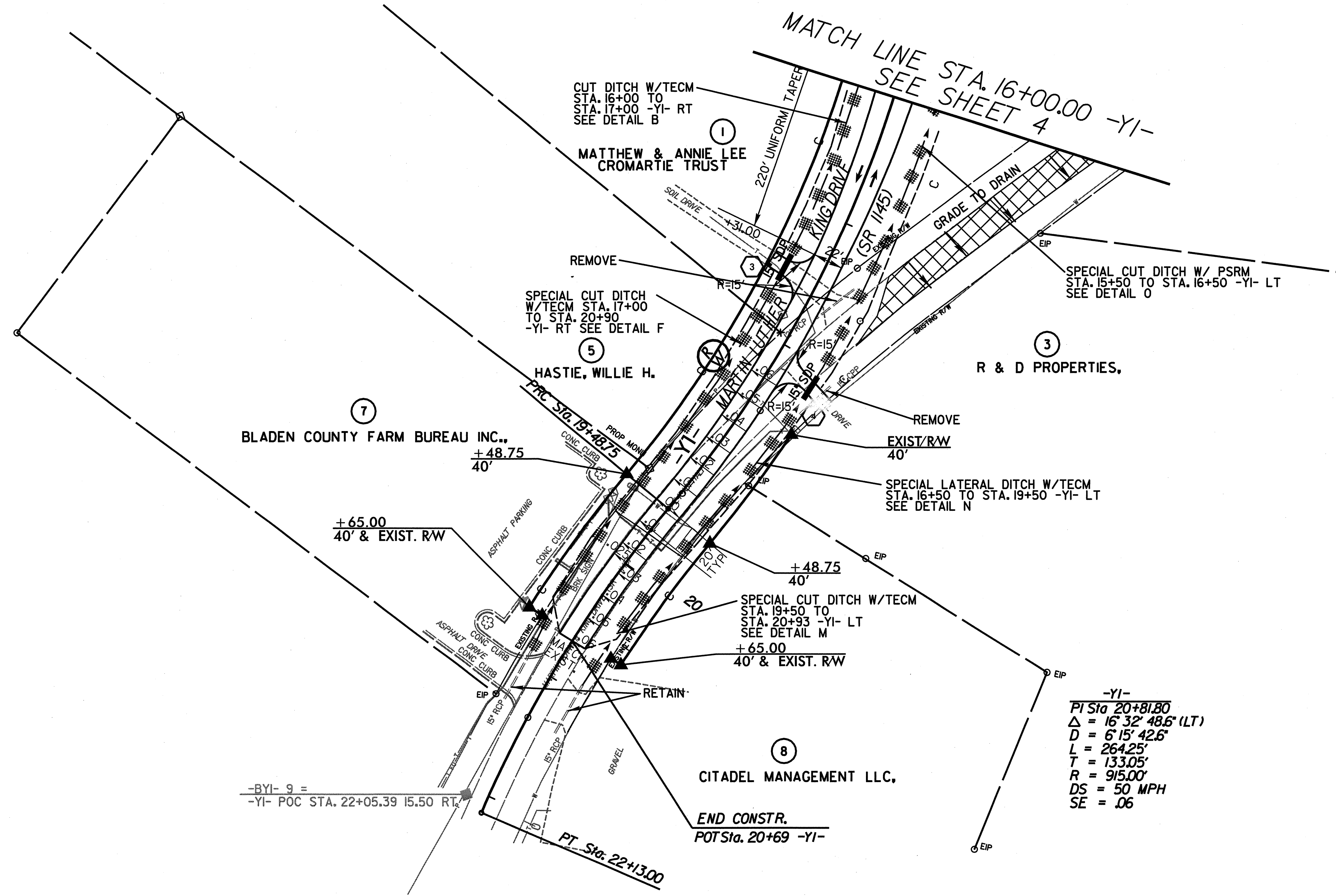
REVISIONS

DATE: 8/17/99
BY: JCF
CHECKED: JCF
APPROVED: JCF

PROJECT REFERENCE NO. W-5002	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER ALAKA C. FISHER NORTH CAROLINA PROFESSIONAL ENGINEER 0308771339106	HYDRAULICS ENGINEER J. WAZENECZKI NORTH CAROLINA PROFESSIONAL ENGINEER 028441
SEAL NOT VALID UNLESS SIGNED AND DATED	SEAL NOT VALID UNLESS SIGNED AND DATED

8/17/99

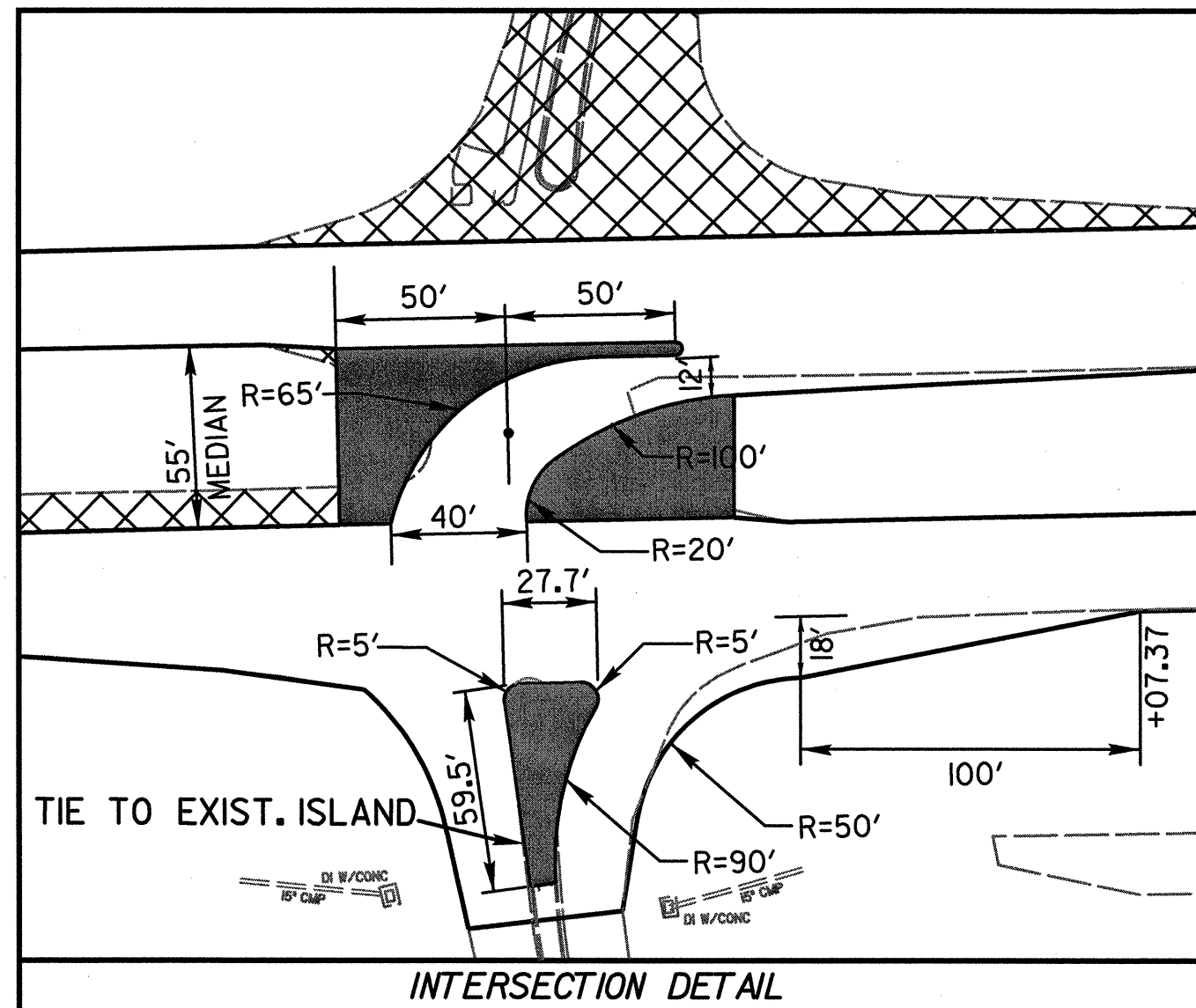
REVISIONS



6/26/2008
50002-RDY_PSH06.dgn
C:\CADD\RDY\50002-RDY_PSH06.dgn

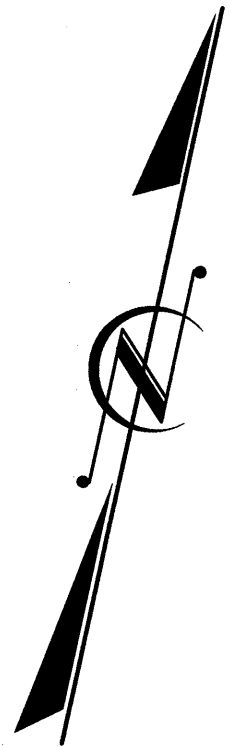
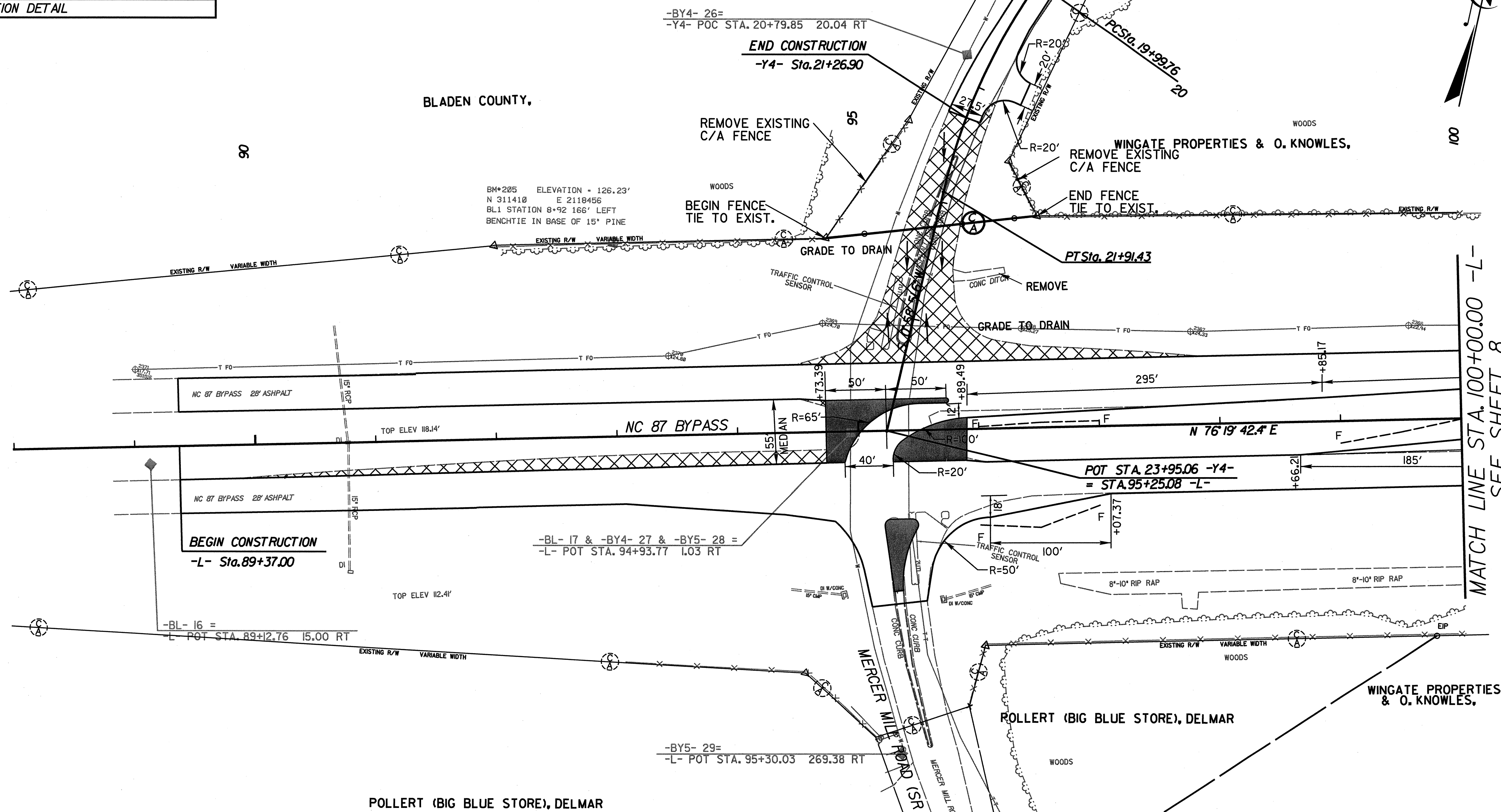
SEE SHEET II FOR PROFILES

PROJECT REFERENCE NO. W-5002	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER LAURA C. FISHER SEAL 030877	HYDRAULICS ENGINEER ANITA WAZENECER SEAL 028441
SEAL NOT VALID UNLESS SIGNED AND DATED	



-Y4-
 PI Sta 20+96.78
 $\Delta = 21^\circ 57' 51.1''$ (LT)
 $D = 11^\circ 27' 33.0''$
 $L = 191.67'$
 $T = 97.03'$
 $R = 500.00'$
 $DS = 40$ MPH
 $SE =$ EXISTING

BLADEN COUNTY,



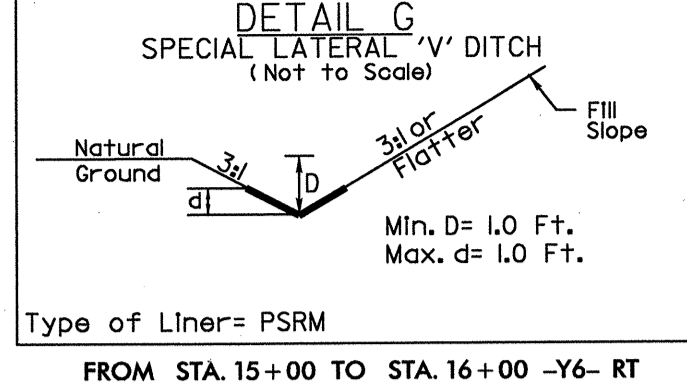
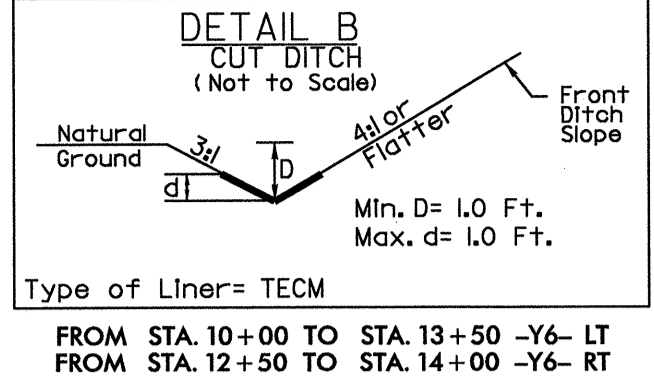
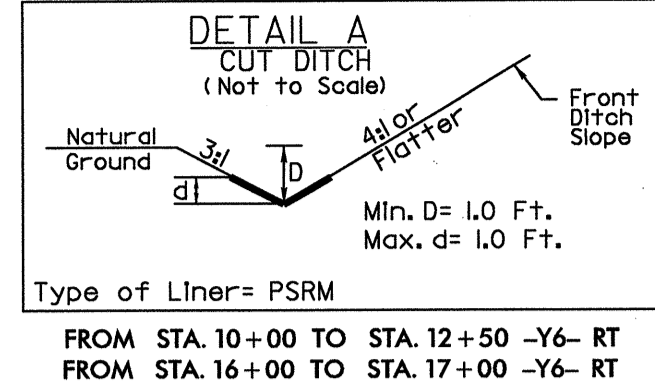
MATCH LINE STA. 100+00.00 -L- SEE SHEET 8

SEE SHEET 12 FOR PROFILES

REVISIONS

8/17/99

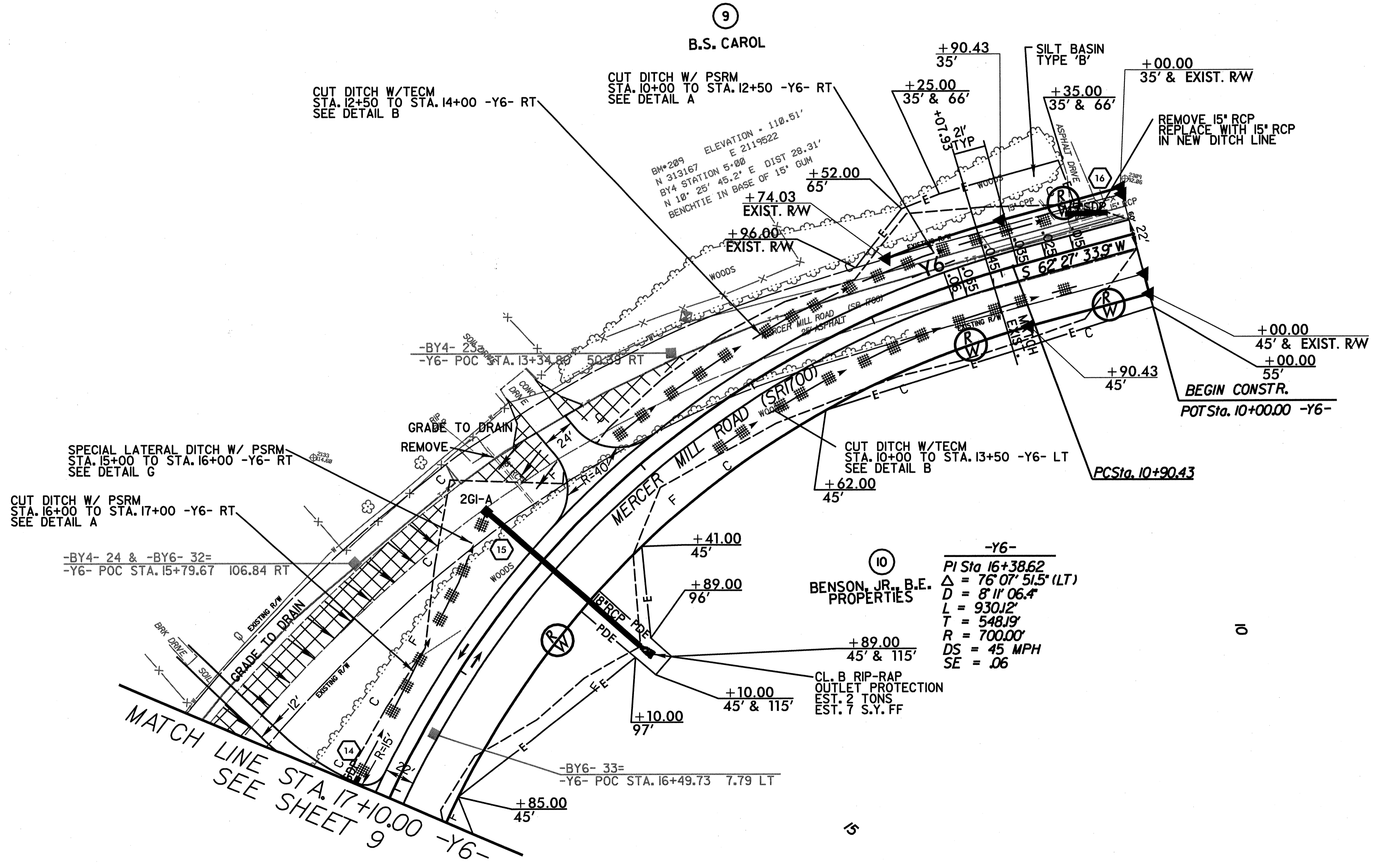
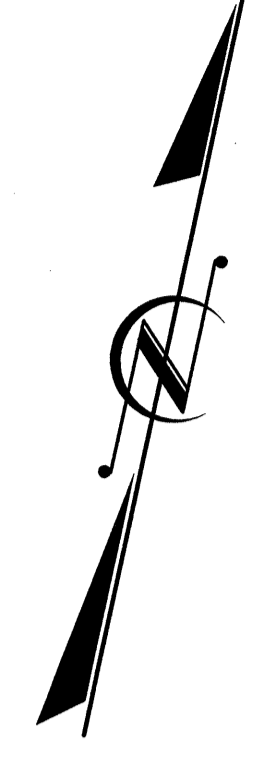
SYSTEMS DESIGN CONSULTANTS, INC.



FROM STA. 10+00 TO STA. 12+50 -Y6- RT
FROM STA. 16+00 TO STA. 17+00 -Y6- RT

FROM STA. 10+00 TO STA. 13+50 -Y6- LT
FROM STA. 12+50 TO STA. 14+00 -Y6- RT

FROM STA. 15+00 TO STA. 16+00 -Y6- RT



REVISIONS

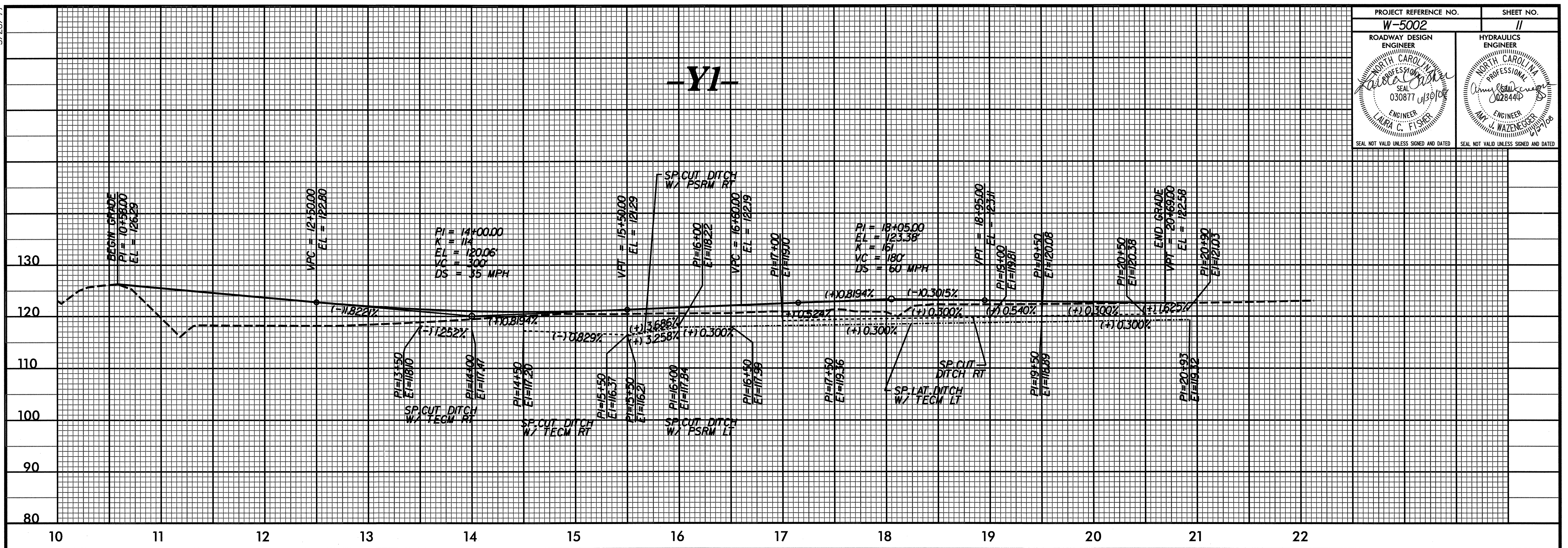
8/17/99

SEE SHEET 12 FOR PROFILES

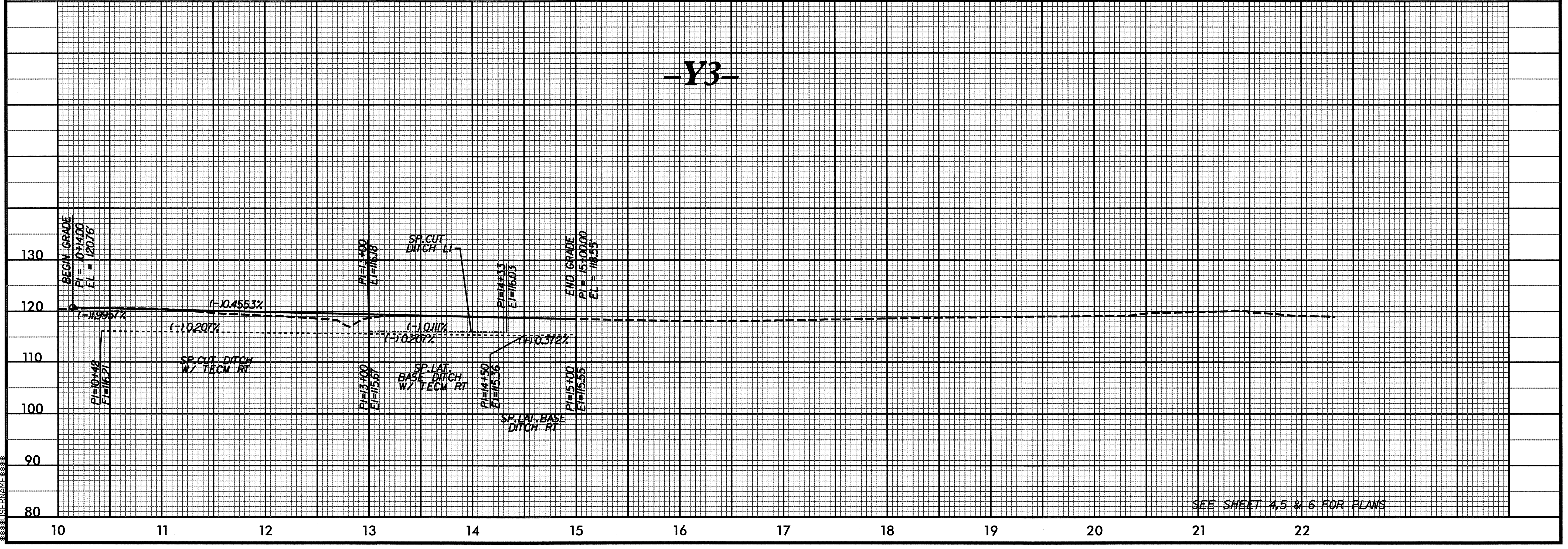
5/28/99

PROJECT REFERENCE NO. W-5002	SHEET NO. 11
ROADWAY DESIGN ENGINEER <i>Laura C. Fisher</i> SEAL 030877 (1/30/10) ENGINEER LAURA C. FISHER	HYDRAULICS ENGINEER <i>Anna S. K... J. W... SEAL 028444 ENGINEER ANN J. W...</i>
SEAL NOT VALID UNLESS SIGNED AND DATED	SEAL NOT VALID UNLESS SIGNED AND DATED

-Y1-



-Y3-



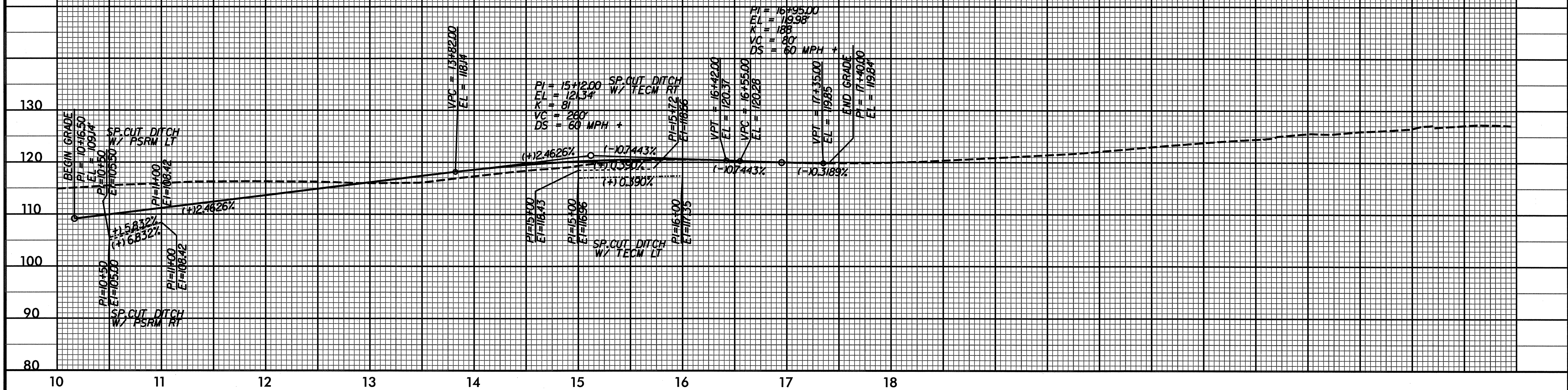
SEE SHEET 4, 5 & 6 FOR PLANS

5/28/99

5/28/99

PROJECT REFERENCE NO. W-5002	SHEET NO. 12
ROADWAY DESIGN ENGINEER <i>Laura C. Fisher</i> SEAL 030877 0130	HYDRAULICS ENGINEER <i>Amey S. Kulkarni</i> SEAL 028447
ENGINEER LAURA C. FISHER	ENGINEER AMEY S. KULKARNI
SEAL NOT VALID UNLESS SIGNED AND DATED	SEAL NOT VALID UNLESS SIGNED AND DATED

-Y4-



5/28/99

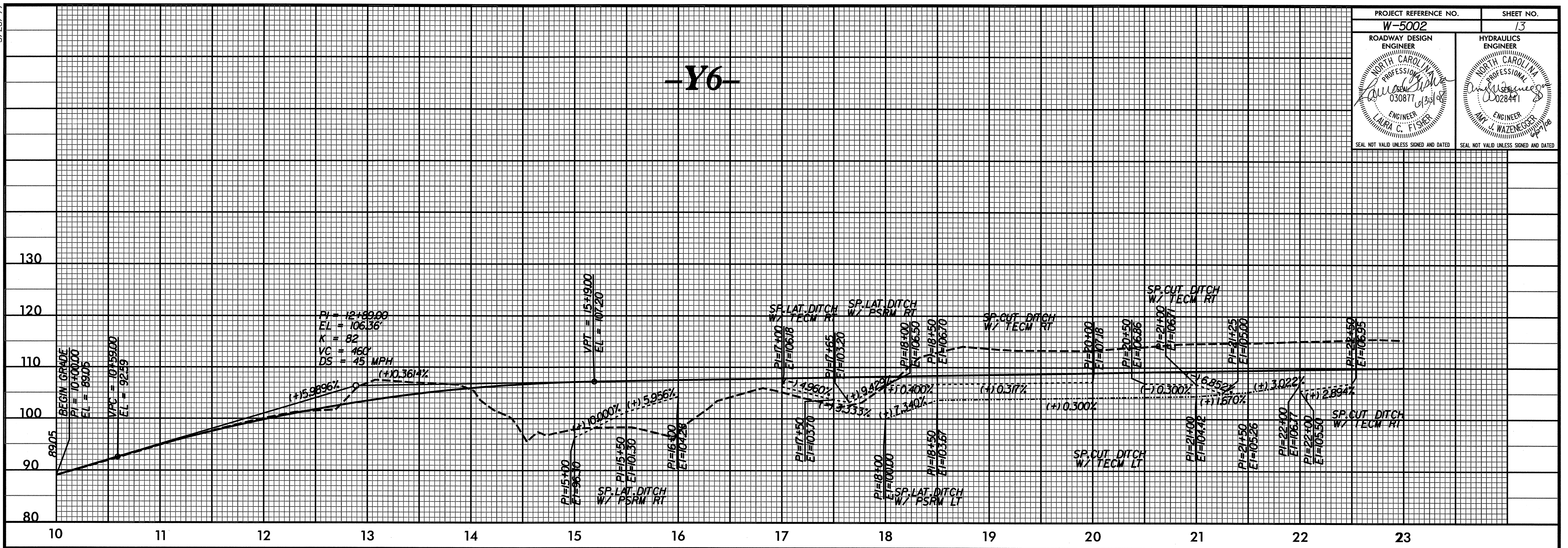
SEE SHEET 7 & 9 FOR PLANS

5/28/99

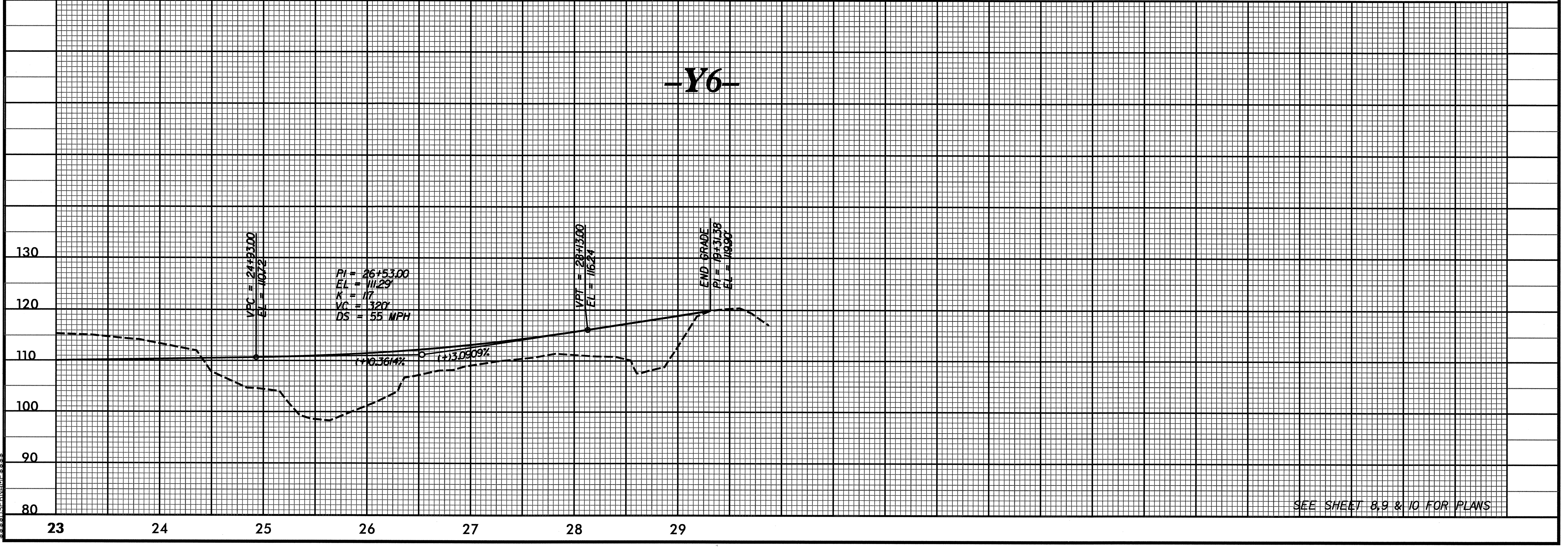
PROJECT REFERENCE NO. W-5002	SHEET NO. 13
ROADWAY DESIGN ENGINEER <i>[Signature]</i> 030877	HYDRAULICS ENGINEER <i>[Signature]</i> 002844
ENGINEER ALARA C. FISHER	ENGINEER J. WAZNEGGER

SEAL NOT VALID UNLESS SIGNED AND DATED

-Y6-



-Y6-



SEE SHEET 8, 9 & 10 FOR PLANS

ACTIVE
CROSS
SECTION
FRAMING