

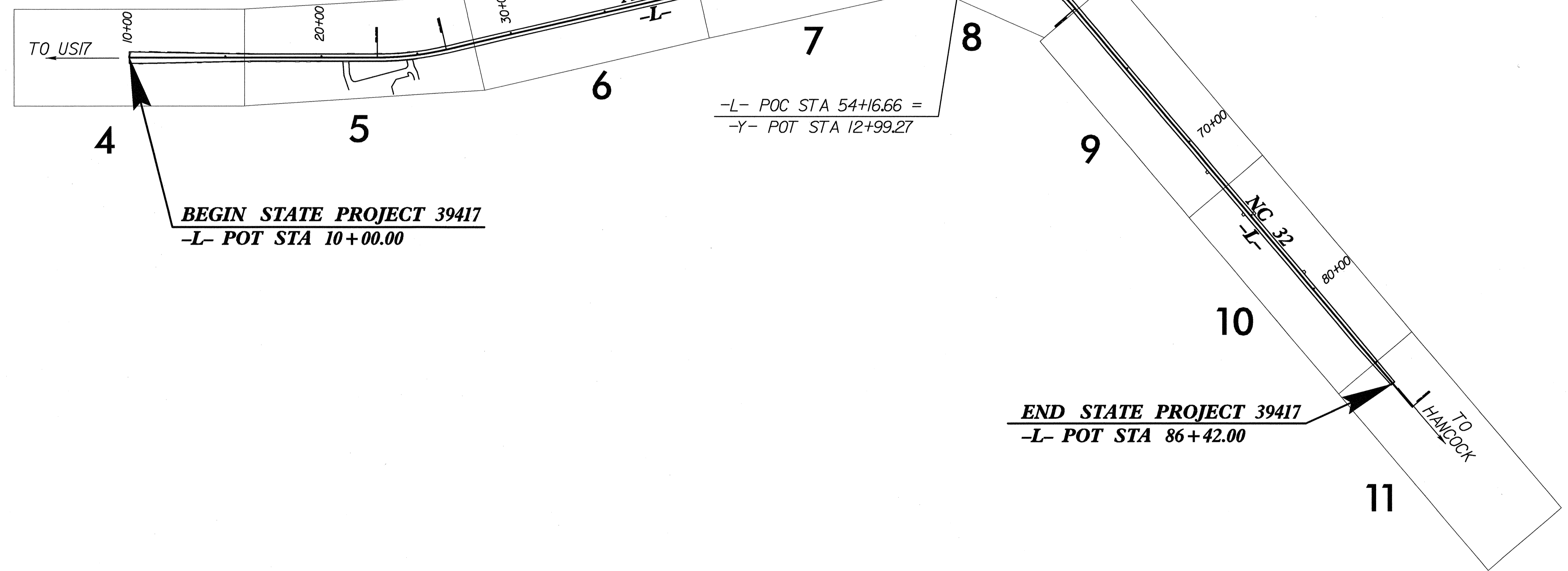
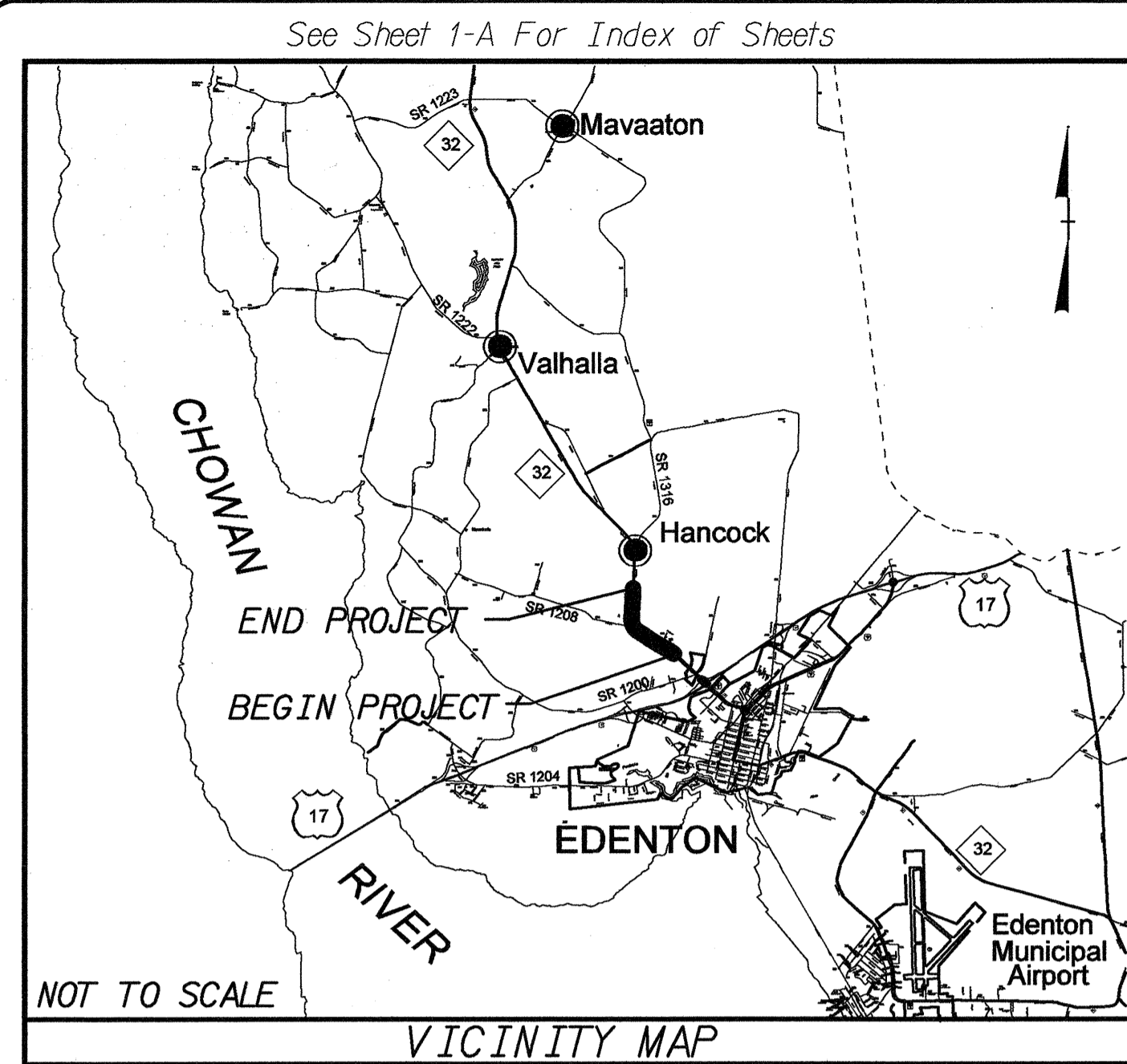
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	39417	1	
WBS NO.	F.A. PROJ. NO.	DESCRIPTION	
39417			

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CHOWAN COUNTY

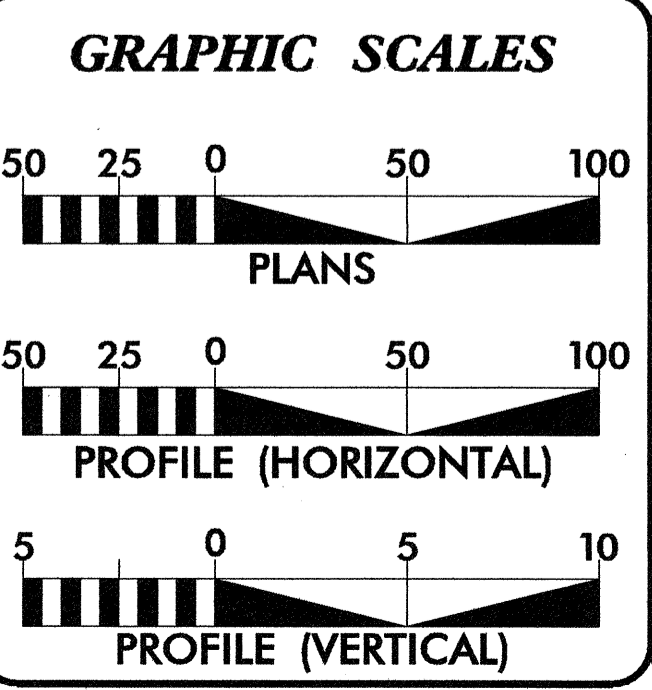
LOCATION: NC 32 FROM 0.25 MILES NW OF INTERSECTION WITH US-17 TO 0.61 MILES NORTH OF INTERSECTION OF SR 1208

TYPE OF WORK: WIDENING, GRADING, DRAINAGE, PAVING CURB & GUTTER



WBS ELEMENT: 39417

CONTRACT: C202000



DESIGN DATA
ADT 2006 = 8500

PROJECT LENGTH
LENGTH OF STATE PROJECT 39417 -L- LINE = 1.447 MILES
TOTAL LENGTH OF STATE PROJECT 39417 = 1.447 MILES

Prepared in the Office of:
W.K. DICKSON
ENGINEERS
PLANNERS
SURVEYORS

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FAX: (919) 782-9672
ATLANTA, GA
CHARLOTTE, NC
COLUMBIA, SC
HICKORY, NC
WILMINGTON, NC

2006 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: June 2006
LETTING DATE: April 15, 2008

Tommy Register, PE
PROJECT MANAGER

Mickey Dawes
PROJECT DESIGN ENGINEER

HYDRAULIC ENGINEER

ROADWAY DESIGN ENGINEER

Professional Engineer Seal: 027419
Professional Engineer Seal: 028392

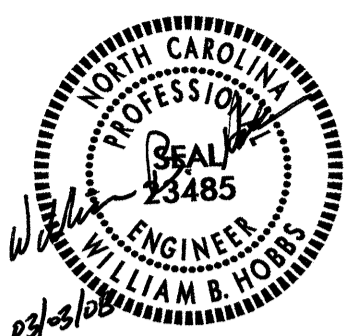
2-1-08
P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

2/4/2008
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H:\projects\ncdot\60486.00_R3833A\Roadway_Proj\Plot\Plot_Info.tbl

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
39417	1-A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	

INDEX OF SHEETS

GENERAL NOTES

ROADWAY ENGLISH STANDARDS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2-C	TYPICAL SECTIONS
3 (2 Sheets)	SUMMARY OF QUANTITIES
3-A THRU 3-C	SUMMARY OF DRAINAGE QUANTITIES
3-D	SUMMARY OF EARTHWORK AND SUMMARY OF PAVEMENT REMOVAL
3-E	PARCEL INDEX SHEET
4 THRU 11 NCMA-1 PM-1	PLAN / PROFILE SHEETS DETAIL DRAWING FOR ADVANCE WARNING WORK ZONE SIGNS PAVEMENT MARKING PLANS
EC-1 THRU EC-9	EROSION CONTROL PLANS
UC-1 THRU UC-18	UTILITY CONSTRUCTION PLANS
X-1A	CROSS SECTION SUMMARY
X-1 THRU X-29	CROSS SECTIONS

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.

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. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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 EMBARO - phone
Town of Edenton - water, sewer, power
Chowan County - water; Albemarle EMC - power
Mediacom - cable TV
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

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	
225.02	Guide for Grading Subgrade - Secondary and Local
225.06	Method of Grading Sight Distance at Intersections
225.09	Guide for Shoulder and Ditch Transition at Grade Separations
240.01	Guide for Berm Ditch Construction
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 8 - INCIDENTALS	
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick 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
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
852.01	Concrete Islands
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-WLB-
Proposed Wetland Boundary	WLB
Existing High Quality Wetland Boundary	-HQ 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	□
River Basin Buffer	-RBB-
Flow Arrow	←
Disappearing Stream	→
Spring	○
Swamp Marsh	_____
Proposed Lateral, Tail, Head Ditch	_____
False Sump	_____

RAILROADS:

Standard Gauge	_____
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	_____
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	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Utility Easement	-PUE-

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
Curb Cut for Future Wheel Chair Ramp	CCFR
Existing Metal Guardrail	_____
Proposed Guardrail	_____
Existing Cable Guiderail	_____
Proposed Cable Guiderail	_____
Equality Symbol	⊕
Pavement Removal	_____

VEGETATION:

Single Tree	⊕
Single Shrub	⊙
Hedge	_____
Woods Line	_____
Orchard	_____
Vineyard	_____

EXISTING STRUCTURES:

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

UTILITIES:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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


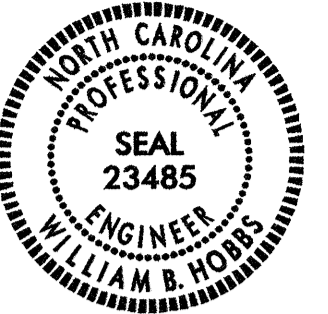
SANITARY SEWER:

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

MISCELLANEOUS:

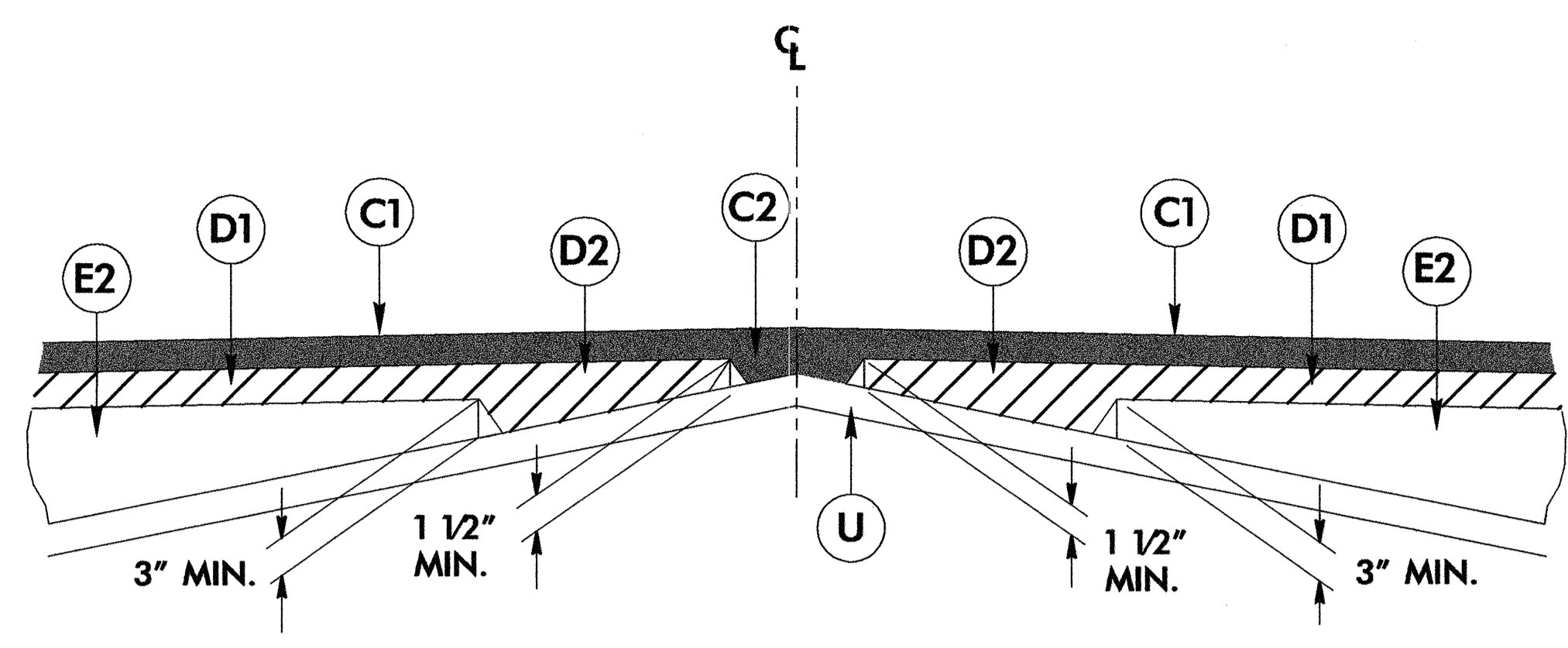
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-ZUTL-
U/G Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/95

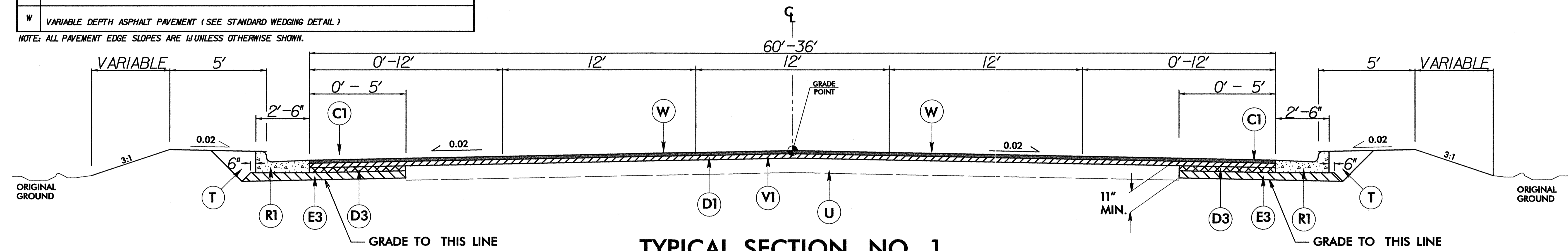
PROJECT REFERENCE NO. 39417	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	

PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 169 LBS. PER SQ. YARD.
C2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
D1	PROPOSED APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
D2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/4" IN DEPTH OR GREATER THAN 4" IN DEPTH.
D3	PROPOSED APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD.
E1	PROPOSED APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5 1/2" IN DEPTH OR LESS THAN 3" IN DEPTH.
E3	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.
R1	2' 6" CURB & GUTTER
R2	5' MONOLITHIC CONCRETE ISLAND
R3	9' x 18" CONCRETE CURB
T	EARTH MATERIAL
U	EXISTING PAVEMENT
VI	MILLING BITUMINOUS PAVEMENT, 2 1/2" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

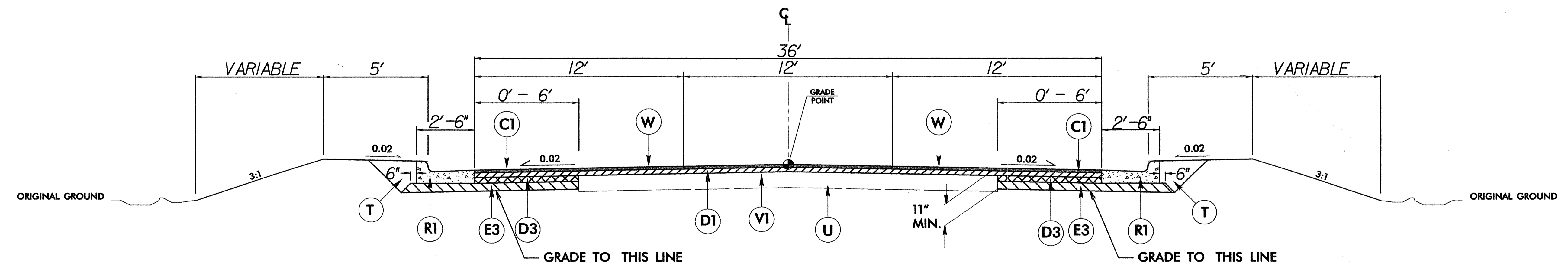
NOTE: ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE SHOWN.



Detail Showing Method of Wedging



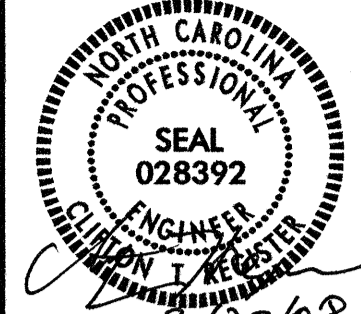

TYPICAL SECTION NO. 1
 -L- STA. 10+00 TO STA. 10+50 - Curb & Gutter is existing
 -L- STA. 10+50 TO STA. 16+50



TYPICAL SECTION NO. 2
 -L- STA. 16+50 TO STA. 24+80

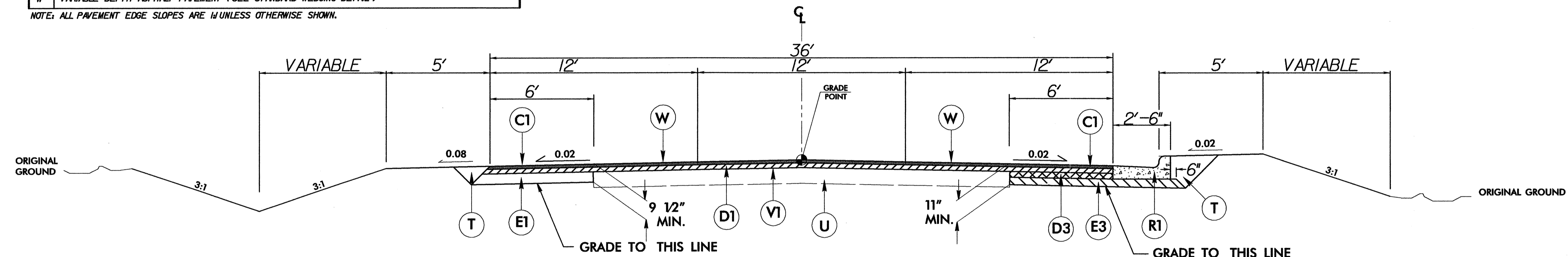
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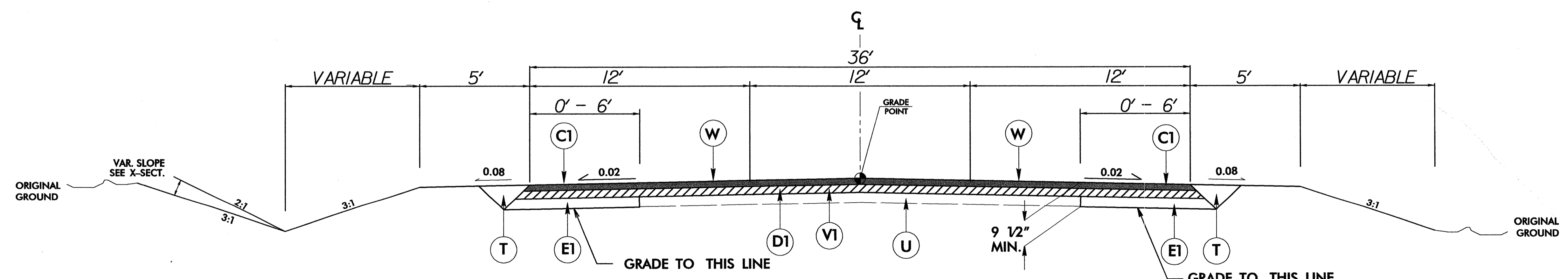
PROJECT REFERENCE NO. 39417	SHEET NO. 2-A
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 

PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 163 LBS. PER SQ. YARD.
C2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
D1	PROPOSED APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
D2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/4" IN DEPTH OR GREATER THAN 4" IN DEPTH.
D3	PROPOSED APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I9.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD.
E1	PROPOSED APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5 1/2" IN DEPTH OR LESS THAN 3" IN DEPTH.
E3	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.
R1	2' 6" CURB & GUTTER
R2	5' MONOLITHIC CONCRETE ISLAND
R3	9' x 18" CONCRETE CURB
T	EARTH MATERIAL
U	EXISTING PAVEMENT
VI	MILLING BITUMINOUS PAVEMENT, 2 1/2" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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



TYPICAL SECTION NO. 3
-L- STA. 24+80 TO STA. 24+95



TYPICAL SECTION NO. 4
-L- STA. 24+95 TO STA. 41+70
-L- STA. 46+50 TO STA. 54+90
-L- STA. 56+65 TO STA. 83+70

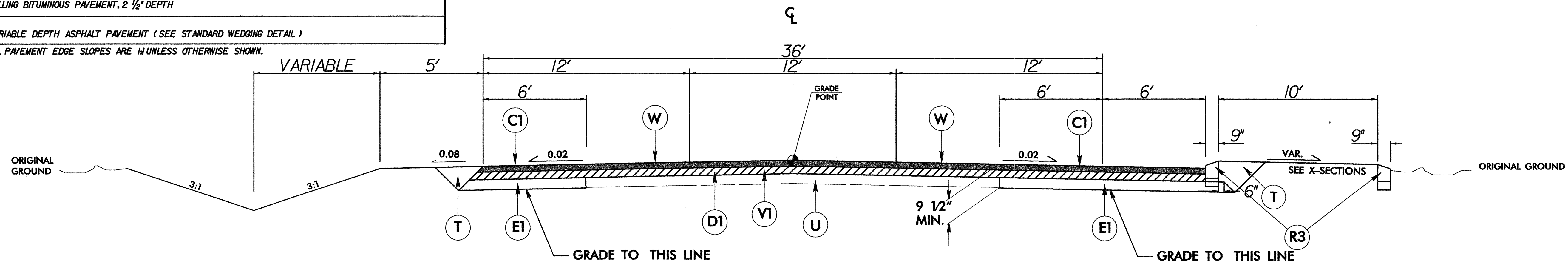
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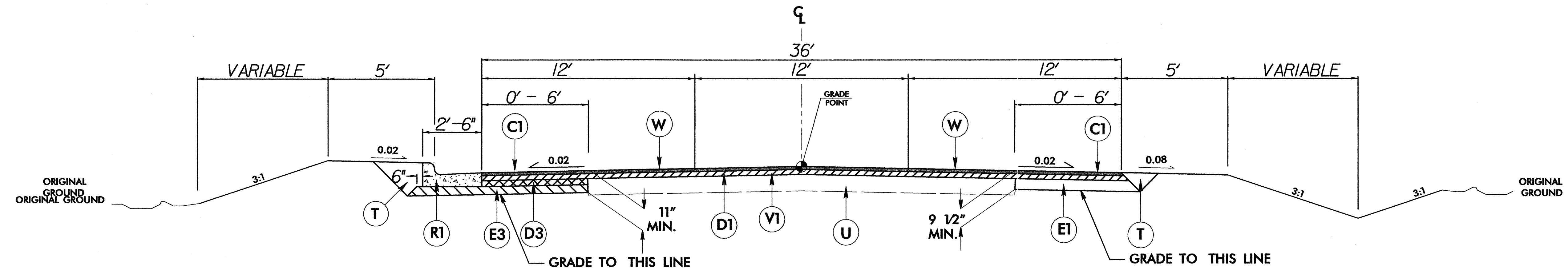
PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.
C2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
D1	PROPOSED APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
D2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/4" IN DEPTH OR GREATER THAN 4" IN DEPTH.
D3	PROPOSED APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD.
E1	PROPOSED APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5 1/2" IN DEPTH OR LESS THAN 3" IN DEPTH.
E3	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.
R1	2' 6" CURB & GUTTER
R2	5' MONOLITHIC CONCRETE ISLAND
R3	9" x 18" CONCRETE CURB
T	EARTH MATERIAL
U	EXISTING PAVEMENT
VI	MILLING BITUMINOUS PAVEMENT, 2 1/2" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

PROJECT REFERENCE NO. 39417	SHEET NO. 2-B
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER



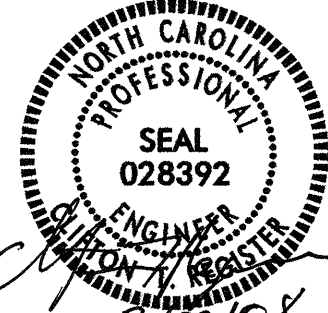

TYPICAL SECTION NO. 5
-L- STA. 41+70 TO STA. 46+50



TYPICAL SECTION NO. 6
-L- STA. 54+90 TO STA. 56+65

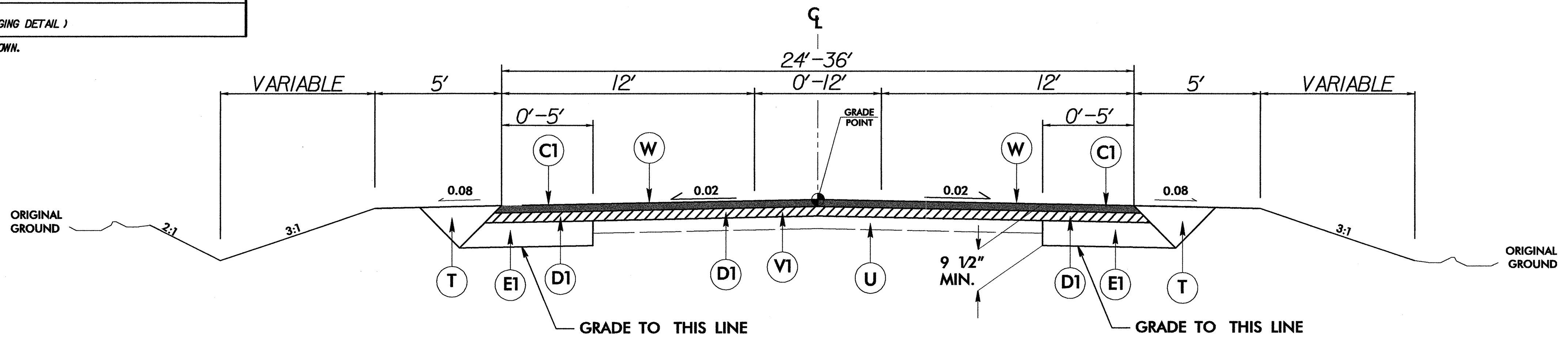
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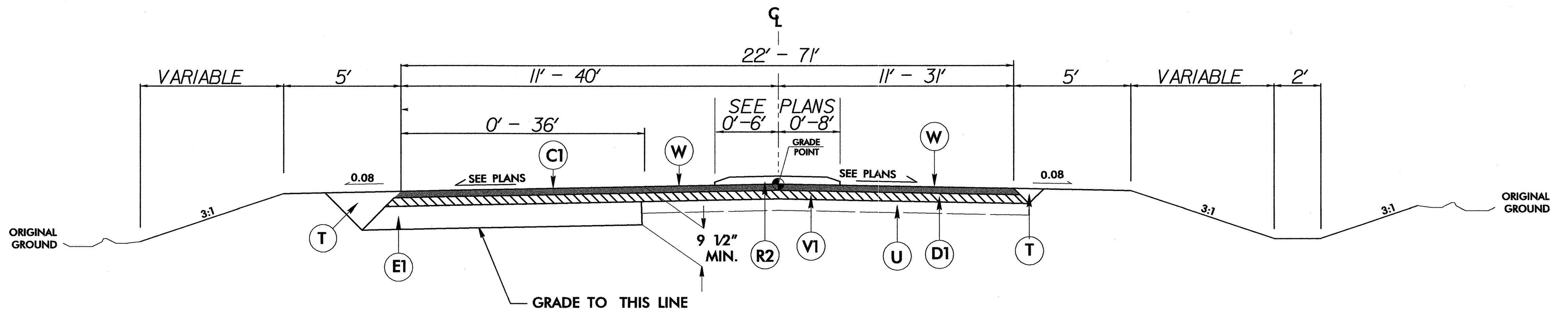
PROJECT REFERENCE NO. 39417	SHEET NO. 2-C
ROADWAY DESIGN ENGINEER [Signature]	PAVEMENT DESIGN ENGINEER [Signature]
	

PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD.
C2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
D1	PROPOSED APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.
D2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/4" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROPOSED APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5 1/2" IN DEPTH OR LESS THAN 3" IN DEPTH.
R1	2' 6" CURB & GUTTER
R2	5' MONOLITHIC CONCRETE ISLAND
R3	9" x 18" CONCRETE CURB
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING BITUMINOUS PAVEMENT, 2 1/2" DEPTH
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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



TYPICAL SECTION NO. 7
-L- STA. 83+70 TO STA. 86+42



TYPICAL SECTION NO. 8
-Y- STA. 11+00 TO STA. 12+81

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202000														
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	2366000000-N	840	7	EA	FRAME WITH TWO GRATES, STD 840.24	5538000000-E	1515	2	EA	4" VALVE
0001000000-E	200	Lump Sum		CLEARING & GRUBBING .. ACRE(S)	2374000000-N	840	6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	5540000000-E	1515	1	EA	6" VALVE
0022000000-E	225	9,925	CY	UNCLASSIFIED EXCAVATION	2374000000-N	840	10	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	5558000000-E	1515	6	EA	12" VALVE
0106000000-E	230	2,220	CY	BORROW EXCAVATION	2374000000-N	840	1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	5572000000-E	1515	2	EA	10" TAPPING VALVE
0156000000-E	250	80	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	2396000000-N	840	2	EA	FRAME WITH COVER, STD 840.54	5648000000-N	1515	33	EA	RELOCATE WATER METER
0318000000-E	300	950	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	2535000000-E	846	130	LF	***X*** CONCRETE CURB (8"X18")	5649000000-N	1515	4	EA	RECONNECT WATER METER
0360000000-E	310	12	LF	12" RC PIPE CULVERTS, CLASS III	2535000000-E	846	700	LF	***X*** CONCRETE CURB (9"X18")	5672000000-N	1515	5	EA	RELOCATE FIRE HYDRANT
0384000000-E	310	88	LF	30" RC PIPE CULVERTS, CLASS III	2549000000-E	846	2,620	LF	2'-6" CONCRETE CURB & GUTTER	5678000000-E	1515	2	EA	*** LINE STOP (10")
0390000000-E	310	124	LF	36" RC PIPE CULVERTS, CLASS III	2612000000-E	848	370	SY	6" CONCRETE DRIVEWAY	5709300000-E	1520	1,852	LF	6" FORCE MAIN SEWER
0995000000-E	340	3,966	LF	PIPE REMOVAL	2647000000-E	852	40	SY	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	5871700000-E	1550	55	LF	TRENCHLESS INSTALLATION OF 12" IN SOIL
1011000000-N	500	Lump Sum		FINE GRADING	3649000000-E	876	157	TON	RIP RAP, CLASS B	5872200000-E	1550	40	LF	TRENCHLESS INSTALLATION OF 24" IN SOIL
1220000000-E	545	100	TON	INCIDENTAL STONE BASE	3656000000-E	876	724	SY	FILTER FABRIC FOR DRAINAGE	5882000000-N	SP	1	EA	GENERIC UTILITY ITEM 2" AIR & VACCUUM RELEASE VALVE WITH 4" PRECAST MANHOLE
1297000000-E	607	25,700	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (2-1/2")	4685000000-E	1205	12,414	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	5882000000-N	SP	1	EA	GENERIC UTILITY ITEM RELOCATE EXISTING WATER METER, 1" & RPZ
1489000000-E	610	3,600	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	4686000000-E	1205	19,389	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	5882000000-N	SP	7	EA	GENERIC UTILITY ITEM RELOCATE EXISTING WATER METER, 1"
1498000000-E	610	4,640	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	4710000000-E	1205	45	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	6000000000-E	1605	705	LF	TEMPORARY SILT FENCE
1519000000-E	610	2,720	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	4725000000-E	1205	43	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	6006000000-E	1610	505	TON	STONE FOR EROSION CONTROL, CLASS A
1560000000-E	620	540	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4810000000-E	1205	31,803	LF	PAINT PAVEMENT MARKING LINES (4")	6009000000-E	1610	410	TON	STONE FOR EROSION CONTROL, CLASS B
1693000000-E	654	150	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	4835000000-E	1205	45	LF	PAINT PAVEMENT MARKING LINES (24")	6012000000-E	1610	520	TON	SEDIMENT CONTROL STONE
2209000000-E	838	22	CY	ENDWALLS	4845000000-N	1205	43	EA	PAINT PAVEMENT MARKING SYMBOL	6015000000-E	1615	10	ACR	TEMPORARY MULCHING
2253000000-E	840	5.7	CY	PIPE COLLARS	4900000000-N	1251	200	EA	PERMANENT RAISED PAVEMENT MARKERS	6018000000-E	1620	350	LB	SEED FOR TEMPORARY SEEDING
2264000000-E	840	0.23	CY	PIPE PLUGS	5325600000-E	1510	197	LF	6" WATER LINE	6021000000-E	1620	1.5	TON	FERTILIZER FOR TEMPORARY SEEDING
2286000000-N	840	49	EA	MASONRY DRAINAGE STRUCTURES	5326200000-E	1510	7,515	LF	12" WATER LINE	6030000000-E	1630	910	CY	SILT EXCAVATION
2308000000-E	840	2.4	LF	MASONRY DRAINAGE STRUCTURES										
2364000000-N	840	23	EA	FRAME WITH TWO GRATES, STD 840.16										

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STATE OF NORTH CAROLINA
SUMMARY OF QUANTITIES

PROJECT REFERENCE No. 39417	SHEET No. 3 (2 of 2)
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ItemNumber	Sec #	Quantity	Unit	Description
6036000000-E	1631	1,485	SY	MATTING FOR EROSION CONTROL
6042000000-E	1632	340	LF	1/4" HARDWARE CLOTH
6084000000-E	1660	9.5	ACR	SEEDING & MULCHING
6087000000-E	1660	6	ACR	MOWING
6090000000-E	1661	100	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	250	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	7	TON	FERTILIZER TOPDRESSING
6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL

***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****				
0366000000-E AA1	310	3,188	LF	15" RC PIPE CULVERTS, CLASS III
0372000000-E AA1	310	1,532	LF	18" RC PIPE CULVERTS, CLASS III
0378000000-E AA1	310	484	LF	24" RC PIPE CULVERTS, CLASS III
*** OR ***				
0366000000-E AA2	310	2,058	LF	15" RC PIPE CULVERTS, CLASS III
0372000000-E AA2	310	1,396	LF	18" RC PIPE CULVERTS, CLASS III
0378000000-E AA2	310	424	LF	24" RC PIPE CULVERTS, CLASS III
0546000000-E AA2	310	1,130	LF	*** CAA PIPE CULVERTS, ***** THICK (15", 0.060")
0546000000-E AA2	310	136	LF	*** CAA PIPE CULVERTS, ***** THICK (18", 0.060")
0546000000-E AA2	310	60	LF	*** CAA PIPE CULVERTS, ***** THICK (24", 0.075")
***** END SCHEDULE AA *****				

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT +	BORROW	WASTE
-L- 10+00 TO 25+00	152		2079	1927	
-L- 25+00 TO 41+00	3399		2521		878
-L- 41+00 TO 57+50	1962		1872		90
-L- 57+50 TO 84+00	4021		3085		936
SUBTOTAL	9534		9557	1927	1904
-Y- 11+00 TO 12+50	391		584	193	
EST. for replace topsoil on borrow pits				100	
PROJECT TOTAL	9925		10141	2220	1904

SUMMARY OF PAVEMENT REMOVAL

LINE	STATION TO STATION	LOCATION	SQ. YDS.
-Y-	Sta 12+00 thru Sta 12+85	Right	80
PROJECT TOTAL			80

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET

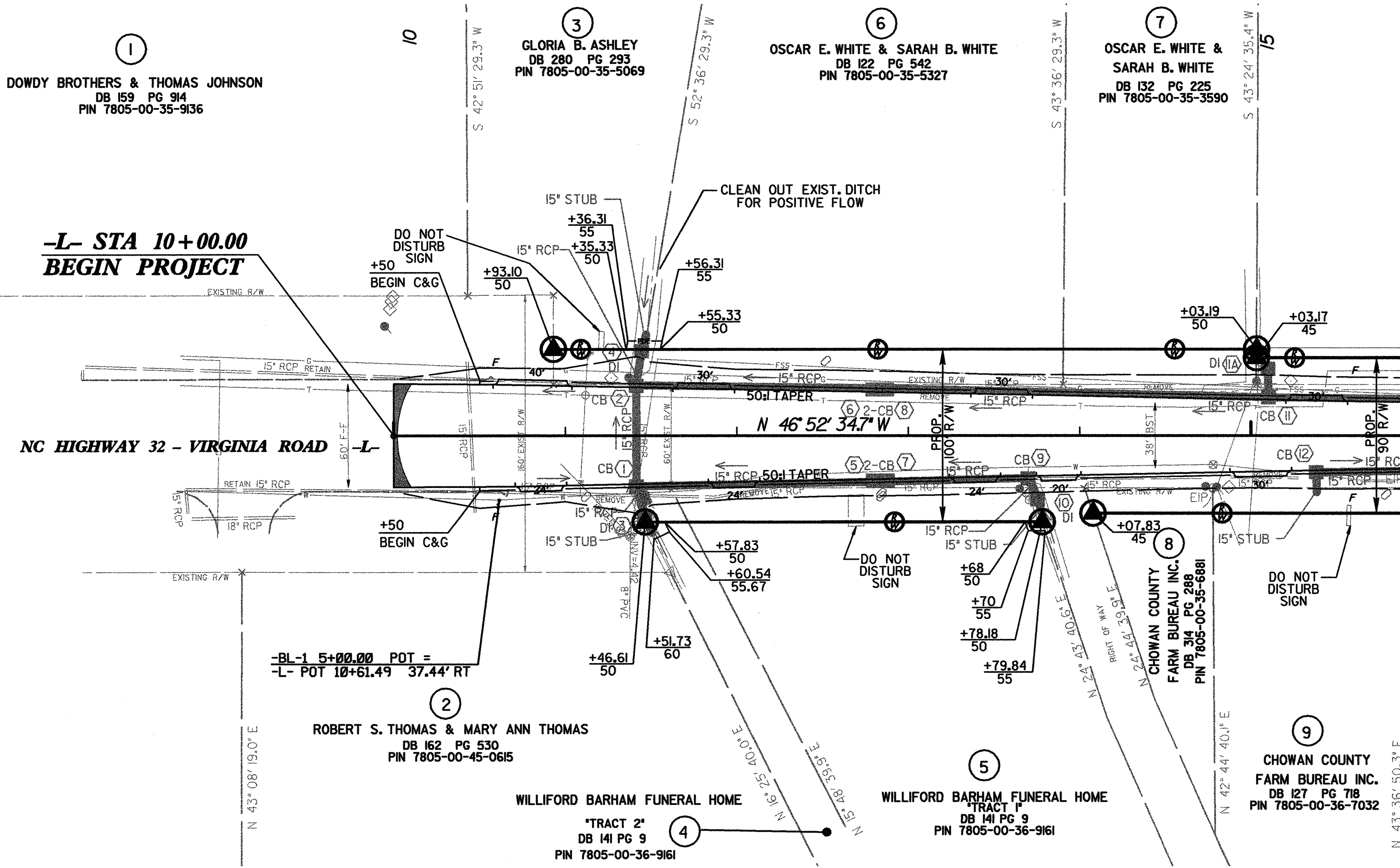
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PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT	PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	PERMANENT UTILITY EASEMENT
1	DOWDY BROTHER AND THOMAS JOHNSON	2.90 Ac	0 Sf		2.90 Ac	0 Sf	0 Sf	0 Sf		37	JOE LEE COMPANY OF EDENTON, INC	2.28 Ac	1175 Sf	2.25 Ac		0 Sf	0 Sf	0 Sf	375 Sf
2	ROBERT S. THOMAS AND MARY ANN	1.80 Ac	0 Sf	1.80 Ac		0 Sf	0 Sf	0 Sf		38	JOSEPH E. GRIFFIN	5.69 Ac	3129 Sf	5.62 Ac		0 Sf	0 Sf	0 Sf	
3	GLORIA B. ASHLEY	3.00 ac	1042 Sf		2.98 Ac	0 Sf	54 Sf	0 Sf		39	GLENDA ODELL NORFLEET	1.03 Ac	2258 Sf	42609 Sf		0 Sf	0 Sf	0 Sf	
4	WILLIFORD BARHAM FUNERAL HOME	25869 SF	495 Sf	25374 SF		0 Sf	87 Sf	0 Sf		40	APOLOSTIC CHURCH OF GOD	39030 Sf	1816 Sf	37214 Sf		0 Sf	0 Sf	0 Sf	
5	WILLIFORD BARHAM FUNERAL HOME	3.08 Ac	4106 Sf	2.99 Ac		0 Sf	50 Sf	0 Sf		41	VIRGINIA REA ALEXANDER	3.30 Ac	1274 Sf	3.27 Ac		0 Sf	0 Sf	0 Sf	
6	OSCAR E. WHITE AND SARAH B. WHITE	3.12 Ac	0.11 Ac		3.01 Ac	0 Sf	46 Sf	0 Sf		42	MARY VIRGINIA WILLIAMS	1.23 Ac	1609 Sf	1.19 Ac		0 Sf	0 Sf	0 Sf	
7	OSCAR E. WHITE AND SARAH B. WHITE	1.86 Ac	2286 Sf		1.81 Ac	0 Sf	0 Sf	0 Sf		43	STATE HIGHWAY COMMISSION	1504 Sf	1504 Sf		0 Sf	0 Sf	0 Sf	0 Sf	
8	CHOWAN COUNTY FARM BUREAU INC.	8095 Sf	1065 Sf	7030 Sf		0 Sf	0 Sf	0 Sf		43A	JAMES W. CRIDDEL & JANICE W. CRIDDLE	21772 Sf	3140 Sf		18632 Sf	0 Sf	0 Sf	1908 Sf	
9	CHOWAN COUNTY FARM BUREAU INC.	1.55 Ac	1675 Sf	1.51 Ac		0 Sf	0 Sf	0 Sf		44	PENISE NIXON	6085 Sf	790 Sf	5295 Sf		0 Sf	0 Sf	0 Sf	
10	OLLIN B. SYKES	11.68 Ac	0.22 Ac		11.46 Ac	0 Sf	0 Sf	0 Sf		45	MARY VIRGINIA WILLIAMS	42078 Sf	2786 Sf	39292 Sf		0 Sf	0 Sf	0 Sf	
11	LORETTA H. SANDERS	21951 Sf	1469 Sf	20482 Sf		0 Sf	58 Sf	256 Sf		46	ALBEMARLE BEACH FARMS	OPEN BNDRY	0.48 Ac		OPEN BNDRY	0 Sf	0.49 Ac	0 Sf	
12	GWENDOLYN WHITE	1.96 Ac	2397 Sf	1.90 Ac		0 Sf	42 Sf	343 Sf		47	CORNERSTONE PROPANE LP	3.11 Ac	4512 Sf	3.01 Ac		0 Sf	0 Sf	0 Sf	
13	GWENDOLYN WHITE	1.75 Ac	1440 Sf	1.72 Ac		0 Sf	0 Sf	0 Sf		48	ECONOMIC IMPROVEMENT COUNCIL, INC.	34955 Sf	2039 Sf	32916 Sf		0 Sf	0 Sf	0 Sf	
14	LONNY WHITE	15.51 Ac	1889 Sf	15.47 Ac		0 Sf	0 Sf	0 Sf		48A	RICHARD DEAN BLANCHARD & BERTHA B. BLANCHARD	43373 Sf	3453 Sf	39920 Sf		0 Sf	0 Sf	0 Sf	
15	BUXTON OAKS PARKS, LLC	8.53 Ac	0.13 Ac	8.40 Ac		0 Sf	0 Sf	0 Sf		49	ALBEMARLE BEACH FARMS, INC.	OPEN BNDRY	0.16 Ac	OPEN BNDRY		0 Sf	0 Sf	0 Sf	
16	DALTON L. FURLOUGH & DAVID MARK BLIZARD	11.34 Ac	1573 Sf		11.30 Ac	0 Sf	0 Sf	0 Sf		50	EUGENE RASCOE	OPEN BNDRY	2424 Sf	OPEN BNDRY		0 Sf	0 Sf	0 Sf	
17	BARRY J. LEARY & JIMMY E. STALLINGS	4.13 Ac	4001 Sf		4.04 Ac	0 Sf	0 Sf	0 Sf		51	PDM INC	15.51 Ac	0.39 Ac		15.12 Ac	0 Sf	0 Sf	0 Sf	
18	SARAH W. RAWLS	20236 Sf	1496 Sf		18740 Sf	0 Sf	0 Sf	0 Sf		52	EUGENE RASCOE	2.00 Ac	2395 Sf	1.95 Ac		0 Sf	0 Sf	0 Sf	
19	SIDEWARD BOYCE	20335 Sf	1617 Sf	18718 Sf		0 Sf	0 Sf	0 Sf		53	EUGENE RASCOE	2.98 Ac	1538 Sf	2.94 Ac		0 Sf	0 Sf	0 Sf	
20	ROLAND WIGGINS	21750 Sf	1514 Sf		20236 Sf	0 Sf	0 Sf	0 Sf		54	EUGENE RASCOE	38459 Sf	2006 Sf	36453 Sf		0 Sf	0 Sf	0 Sf	
21	WALLACE GRANBY & SHELBY GRANBY	16500 Sf	1199 Sf	15301 Sf		0 Sf	0 Sf	0 Sf		55	FENTON TOWE EURE, III	16.67 Ac	896 Sf	16.65 Ac		0 Sf	0 Sf	0 Sf	
22	MARSHAL I. JORDAN	21250 Sf	954 Sf		20296 Sf	0 Sf	224 Sf	0 Sf		56	GASPARE MISSERI	1.39 Ac	224 Sf	1.38 Ac		0 Sf	0 Sf	0 Sf	
23	GERTHA MAE THOMAS	16500 Sf	1177 Sf	15323 Sf		0 Sf	0 Sf	0 Sf		57	GASPARE MISSERI	21750 Sf	1518 Sf	20232 Sf		0 Sf	0 Sf	0 Sf	
24	LINWOOD BOND & AMELIA BOND	OPEN BNDRY	1.95 Ac		OPEN BNDRY	0 Sf	0 Sf	0 Sf		58	GASPARE MISSERI	21753 Sf	1520 Sf	20233 Sf		0 Sf	0 Sf	0 Sf	
25	CATHERINE B. SLADE	1.99Ac	5653 Sf	1.86 Ac		0 Sf	0 Sf	0 Sf		59	GASPARE MISSERI	1.61 Ac	510 Sf	1.60 Ac		0 Sf	0 Sf	0 Sf	
26	WILLIAM E. BOND, JR.	OPEN BNDRY	1623 Sf	OPEN BNDRY		0 Sf	0 Sf	0 Sf		60	AMY EURE FLOYD	1.43 Ac	1283 Sf	1.40 Ac		0 Sf	0 Sf	0 Sf	
27	DONALD BONNER & JUDY BONNER	20451 Sf	2638 Sf	17813 Sf		0 Sf	0 Sf	0 Sf		61	MURRAY LEON NIXON, JR	5.81 Ac	0.12 Ac		5.69 Ac	0 Sf	182 Sf	0 Sf	
28	DONALD BONNER & JUDY BONNER	20340 Sf	2514 Sf	17826 Sf		0 Sf	0 Sf	0 Sf		62	HEATH A. PATRICK & AMY B. PATRICK	OPEN BNDRY	1473 Sf	OPEN BNDRY		0 Sf	0 Sf	0 Sf	
29	SAMUEL D. HARRELL & MARIGE D. HARRELL	20221 Sf	2517 Sf	17704 Sf		0 Sf	0 Sf	0 Sf		62A	CARROLL FOREHAND & ARNETTE FOREHAND	2.04 Ac	748 Sf	2.02 Ac		0 Sf	0 Sf	0 Sf	
30	SAMUEL D. HARRELL & MARIGE D. HARRELL	20102 Sf	2535 Sf	17567 Sf		0 Sf	0 Sf	0 Sf		63	SANDRA J. ARN	26654 Sf	1975 Sf	24679 Sf		0 Sf	0 Sf	0 Sf	
31	OLIVER FELTON BONNER & CARRIE E. BONNER	19902 Sf	2414 Sf	17367 Sf		0 Sf	0 Sf	0 Sf		64	EDWIN MORRIS SMALL	122.20 Ac	0.21 Ac		121.99 Ac	0 Sf	230 Sf	0 Sf	
32	OLIVER FELTON BONNER & CARRIE E. BONNER	19981 Sf	2027 Sf	17954 Sf		0 Sf	0 Sf	0 Sf		65	CHURCH OF DELIVERANCE	2.16 Ac	1618 Sf	2.12 Ac		0 Sf	0 Sf	0 Sf	
33	CAROLYN P. ANTHONY	25232 Sf	2049 Sf	23183 Sf		0 Sf	0 Sf	0 Sf		66	FENTON TOWE EURE, JR & MARGIE C. EURE	20912 Sf	1557 Sf	19355 Sf		0 Sf	0 Sf	0 Sf	
33A	JOE LEE COMPANY OF EDENTON, INC.	8.53 Ac	4120 Sf	8.44 Ac		0 Sf	0 Sf	0 Sf		67	FENTON TOWE EURE, JR & MARGIE C. EURE	OPEN BNDRY	2669 Sf	OPEN BNDRY		0 Sf	0 Sf	0 Sf	
34	JOE LEE & PENNY NORMAN	2.06 Ac	2038 Sf	2.01 Ac		0 Sf	0 Sf	0 Sf		68	ECONOMIC IMPROVEMENT COUNCIL, INC.	1.79 Ac	1763 Sf	1.75 Ac		0 Sf	0 Sf	0 Sf	
35	JOE LEE & PENNY NORMAN	1.94 Ac	611 Sf	1.93 Ac		0 Sf	0 Sf	0 Sf	576 Sf	69	JOE LEE COMPANY	1.62 Ac	1565 Sf	1.58 Ac		0 Sf	0 Sf	0 Sf	
36	JOE LEE COMPANY OF EDENTON, INC	4.84 Ac	1598 Sf	4.80 Ac		0 Sf	0 Sf	0 Sf	1499 Sf										

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PROJECT REFERENCE NO. 39417	SHEET NO. 4
R/W SHEET NO.	HYDRAULICS ENGINEER



NOTE: DITCH CLEANOUT REQUIRED FROM SR-1200 TO US 17 BYPASS

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "VIRGINIA"
 WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 8544267.1(11) EASTING: 2705291.07(11)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999981627
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "VIRGINIA" TO -BL-2 STATION 10+95.54 IS
 N48°46'23.5" W 2326.14
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

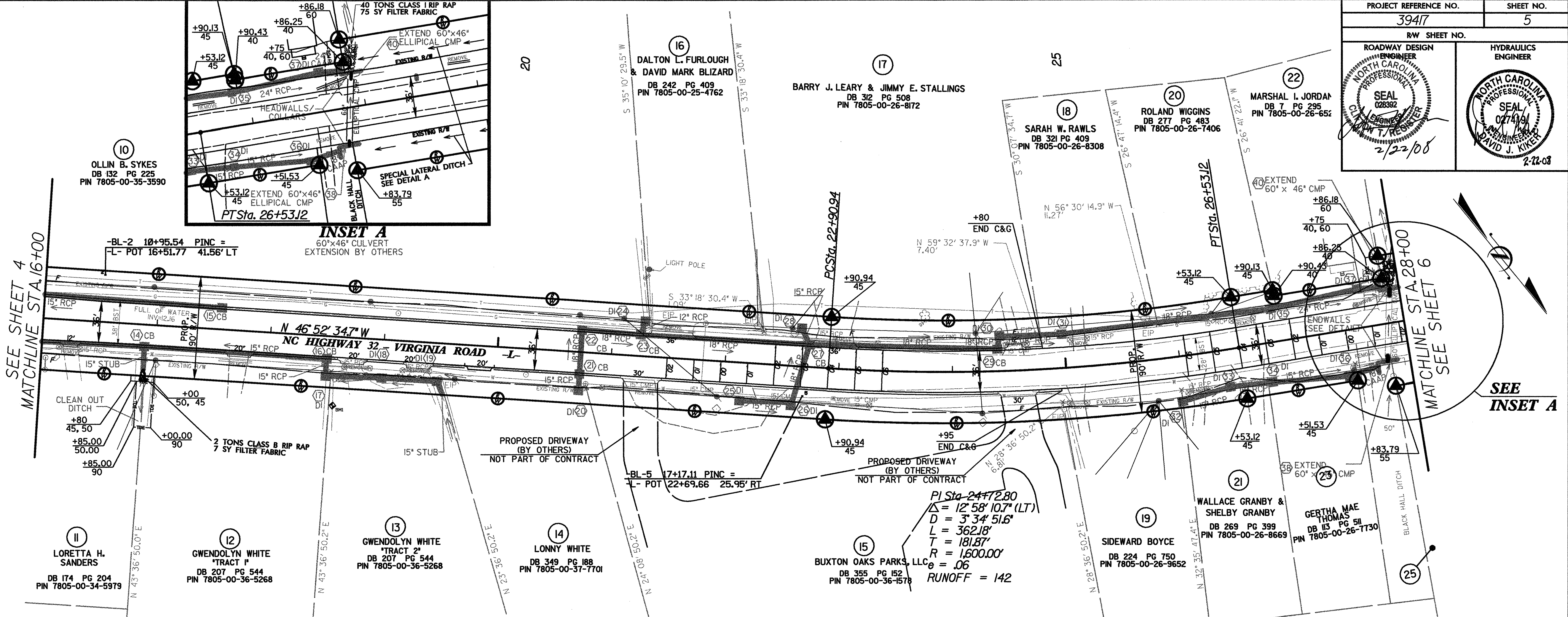
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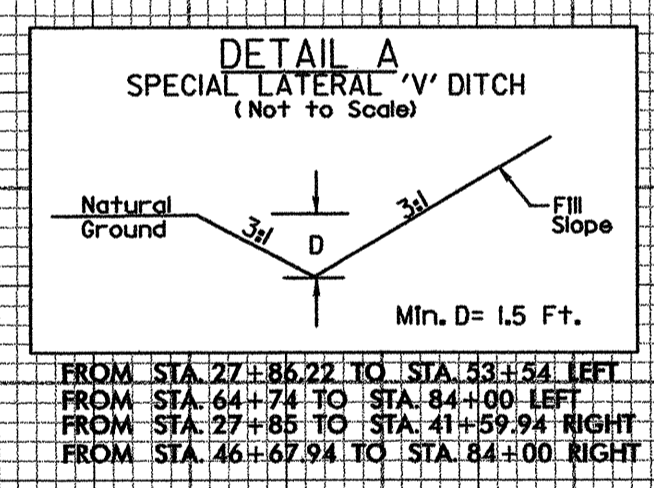
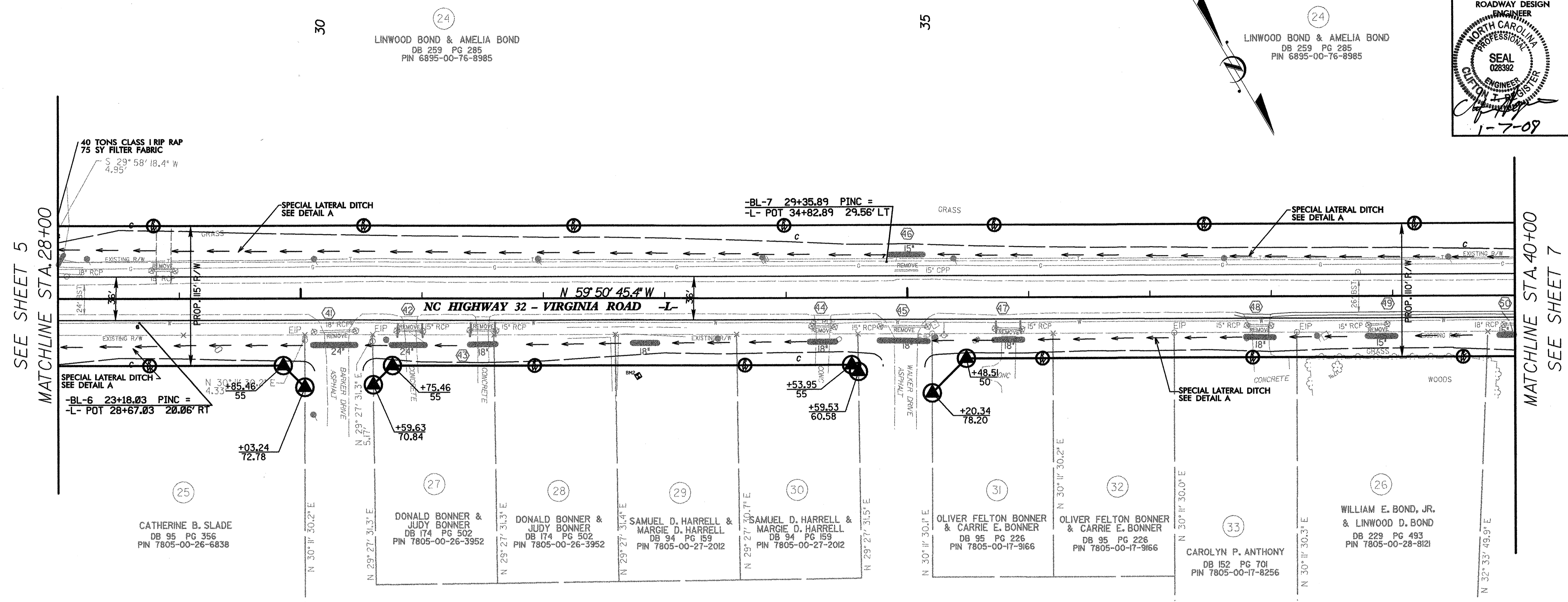
PROJECT REFERENCE NO. 39417	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 2/22/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 2-12-08



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PROJECT REFERENCE NO. 39417	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028392 CLYTON J. REGISTER 1-7-09	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027419 DAVID M. JOYNER 1-7-08



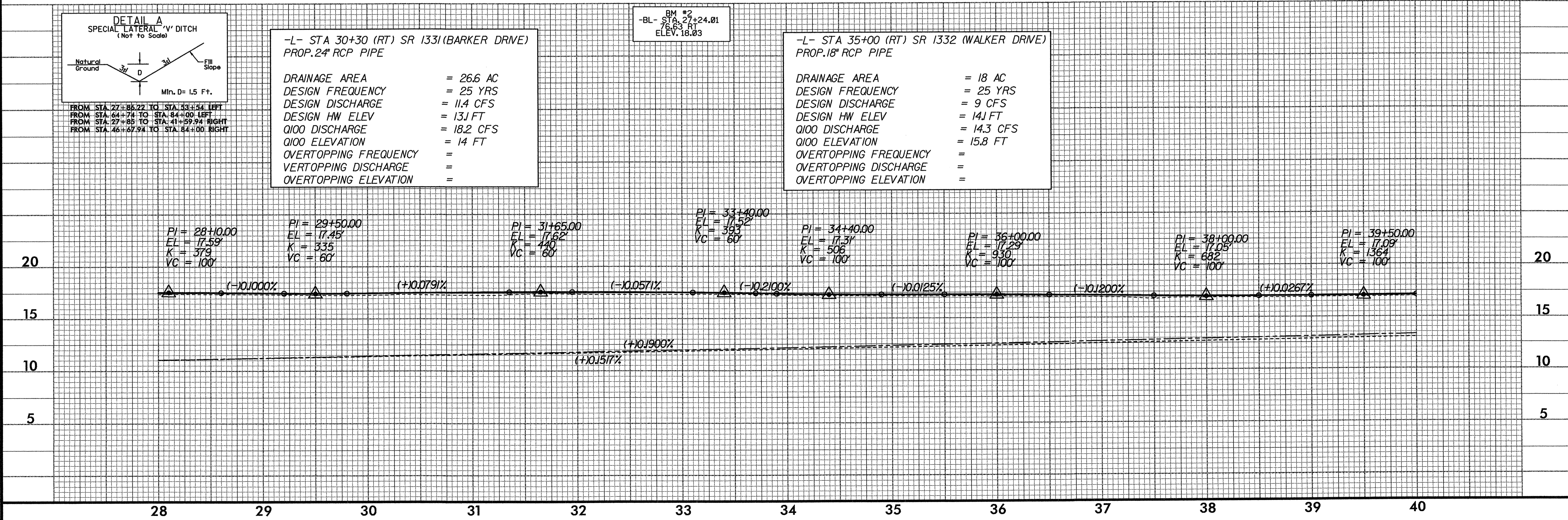
-L- STA 30+30 (RT) SR 1331 (BARKER DRIVE)
PROP. 24" RCP PIPE

DRAINAGE AREA	= 26.6 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 11.4 CFS
DESIGN HW ELEV	= 131 FT
Q100 DISCHARGE	= 18.2 CFS
Q100 ELEVATION	= 14 FT
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=

-BL- BM #2
STA. 27+24.01
ELEV. 18.03

-L- STA 35+00 (RT) SR 1332 (WALKER DRIVE)
PROP. 18" RCP PIPE

DRAINAGE AREA	= 18 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 9 CFS
DESIGN HW ELEV	= 141 FT
Q100 DISCHARGE	= 14.3 CFS
Q100 ELEVATION	= 15.8 FT
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=

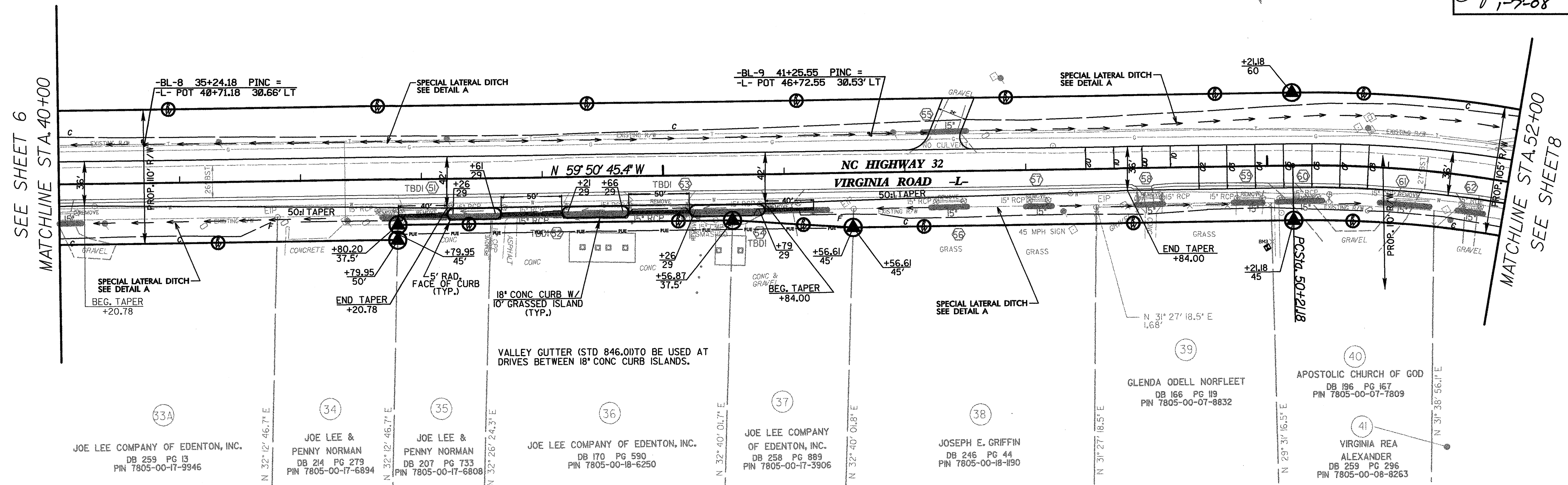


8/17/99

PROJECT REFERENCE NO. 39417	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

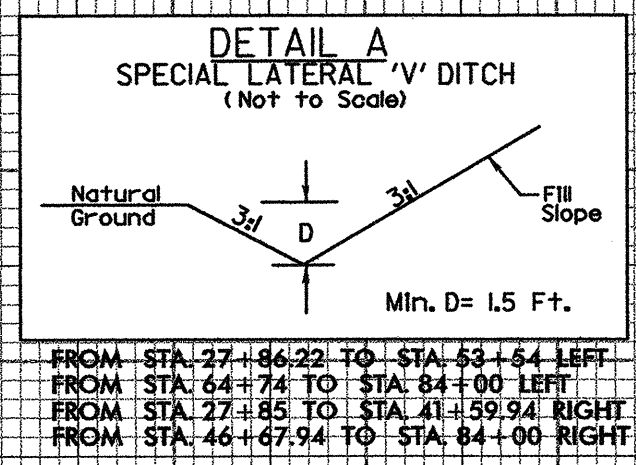
(24)
 LINWOOD BOND & AMELIA BOND
 DB 259 PG 285
 PIN 6895-00-76-8985

(24)
 LINWOOD BOND & AMELIA BOND
 DB 259 PG 285
 PIN 6895-00-76-8985

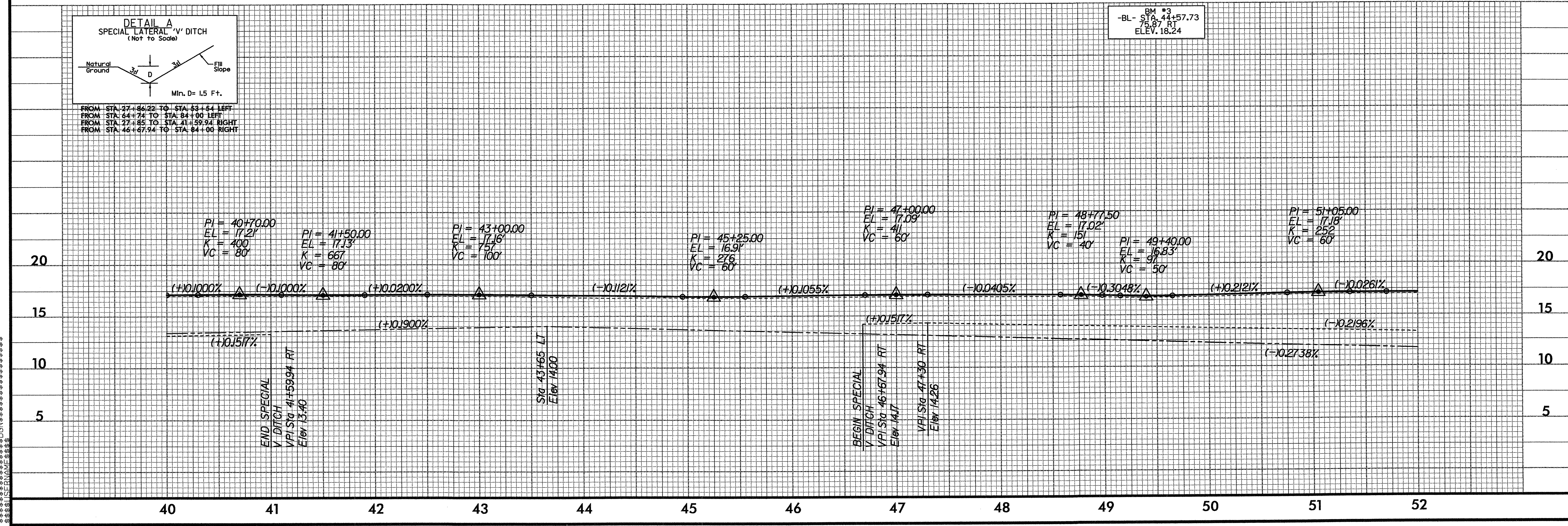


SEE SHEET 6
 MATCHLINE STA. 40+00

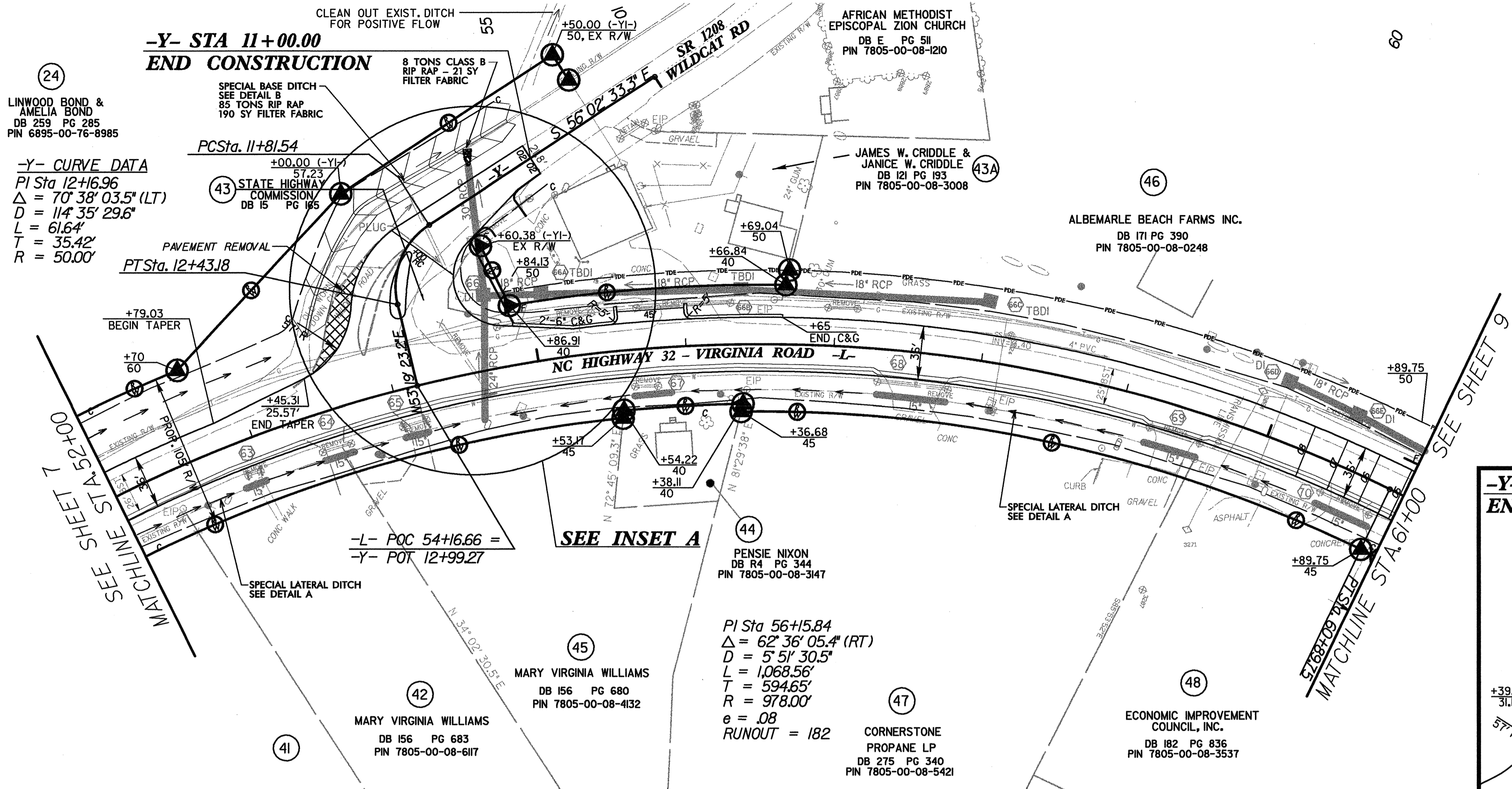
MATCHLINE STA. 52+00
 SEE SHEET 8



BM #3
 STA. 44+57.73
 ELEV. 18.24

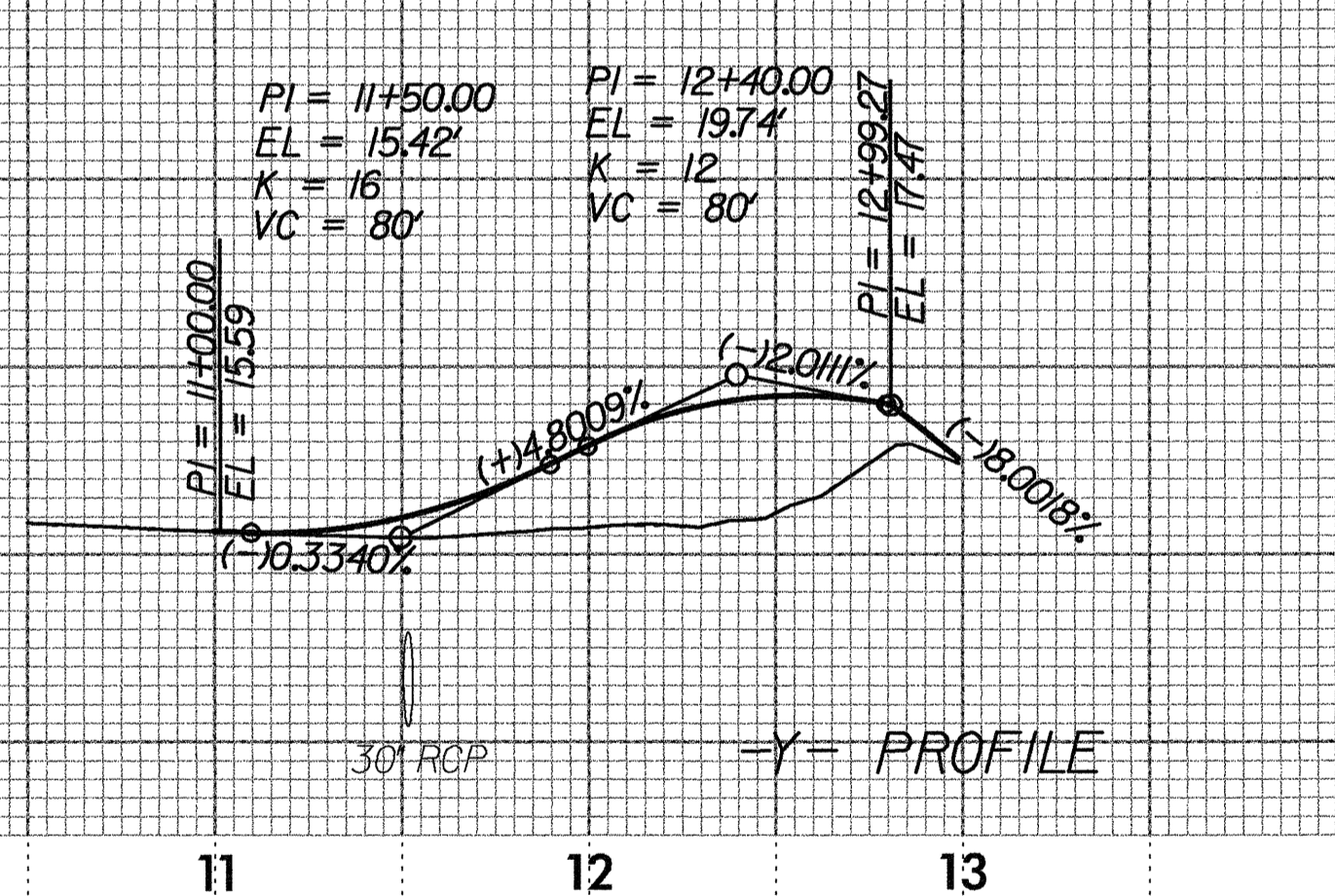
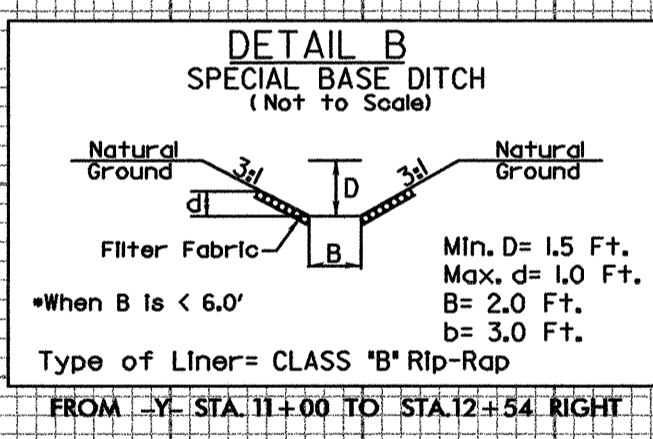
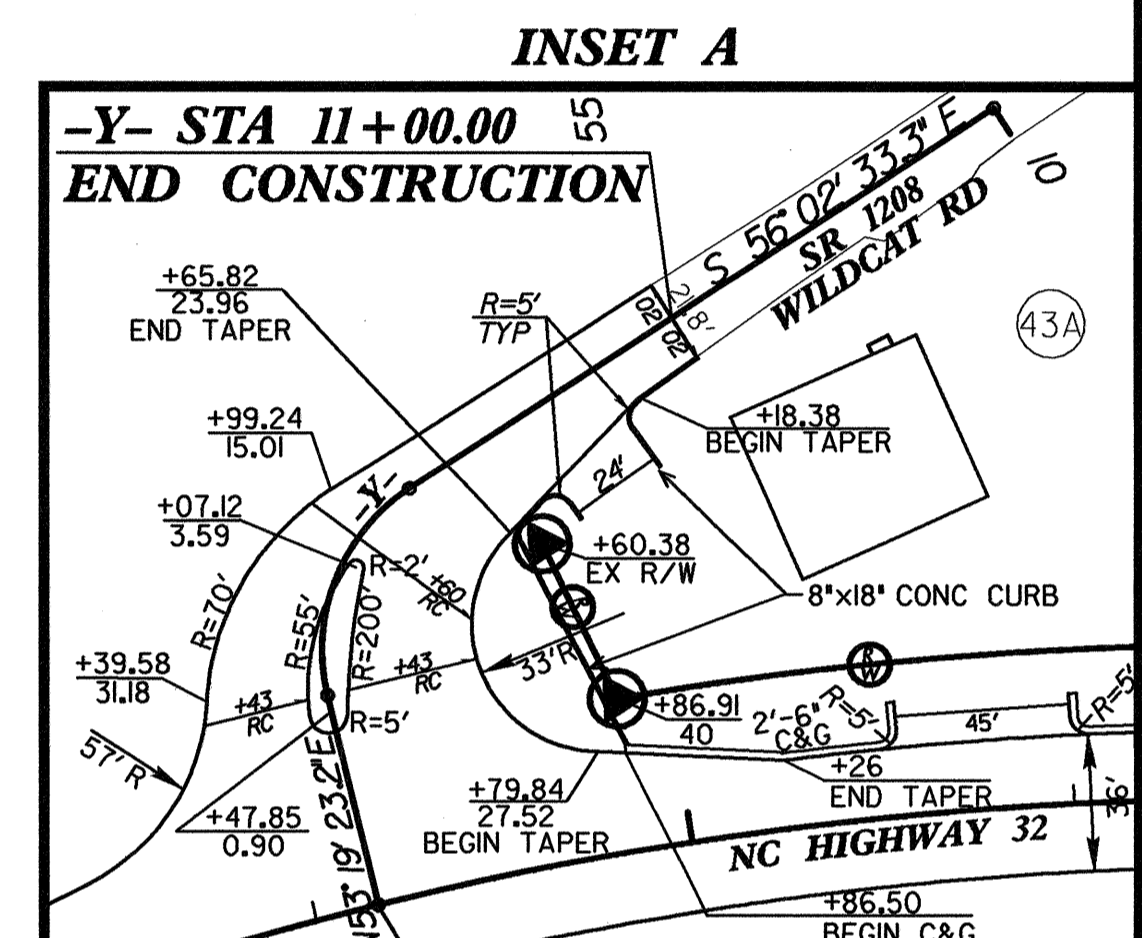


SYTIME\$\$\$\$\$
 CADD
 USER:RWB



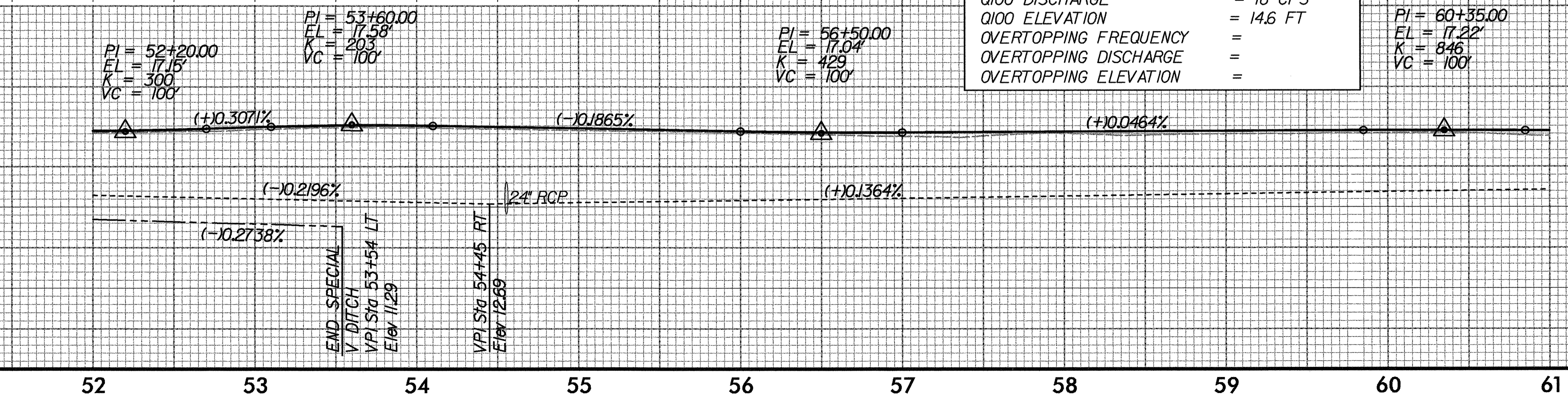
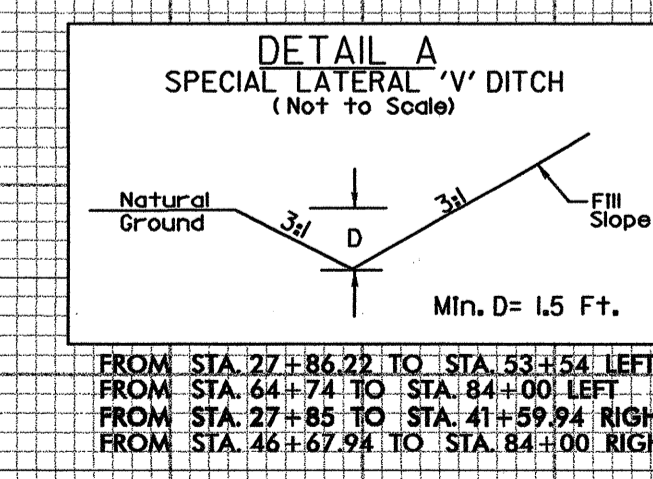
(24)
 LINWOOD BOND &
 AMELIA BOND
 DB 259 PG 285
 PIN 6895-00-76-8985

-Y- CURVE DATA
 PI Sta 12+16.96
 $\Delta = 70' 38' 03.5''$ (LT)
 $D = 114' 35' 29.6''$
 $L = 61.64'$
 $T = 35.42'$
 $R = 50.00'$



-Y- STA 11+50 PROP. 30" RCP PIPE

DRAINAGE AREA	= 31 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 14 CFS
DESIGN HW ELEV	= 12.3 FT
Q100 DISCHARGE	= 22 CFS
Q100 ELEVATION	= 12.75 FT
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=



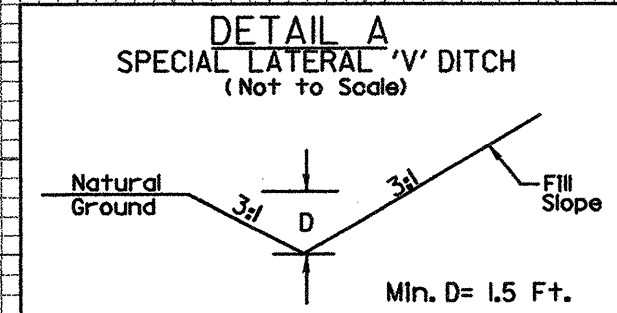
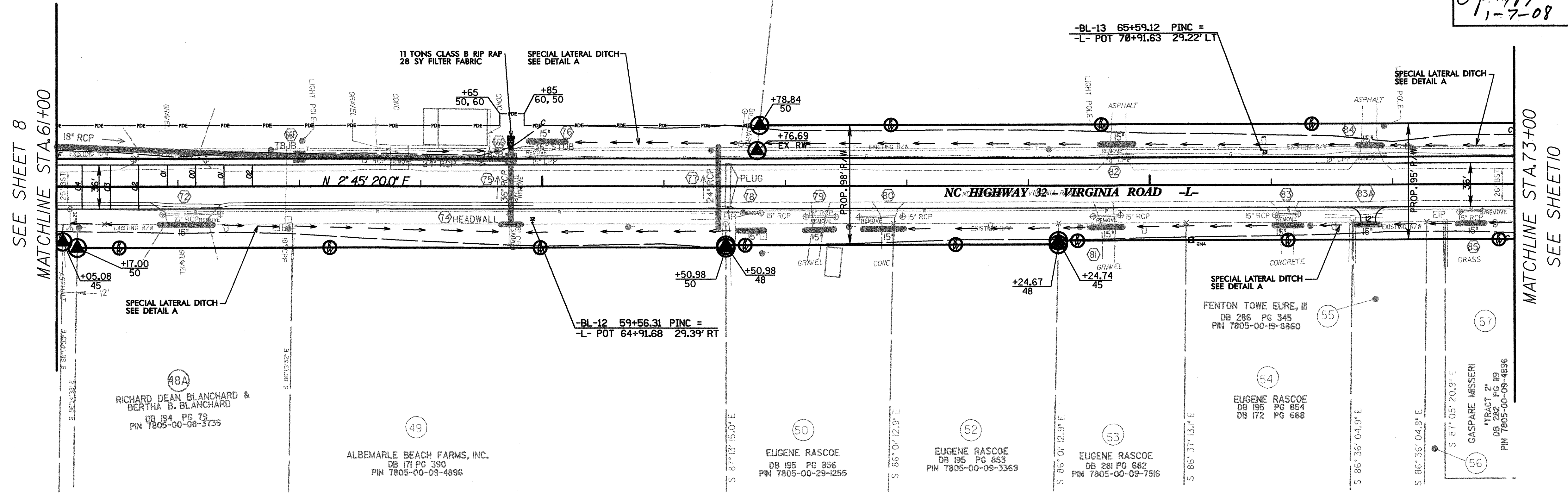
STA 54+57 PROP. 24" RCP PIPE

DRAINAGE AREA	= 29 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 15 CFS
DESIGN HW ELEV	= 14.2 FT
Q100 DISCHARGE	= 18 CFS
Q100 ELEVATION	= 14.6 FT
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=

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 21:27:20 6/26/08 c:\roadway\proj\m01080r-rdy.pst\08.dgn
 5:00 PM

8/17/99

PROJECT REFERENCE NO. 39417	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 028392 CLAYTON L. REED 1-7-08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 027419 DAVID W. WALKER 1-7-08

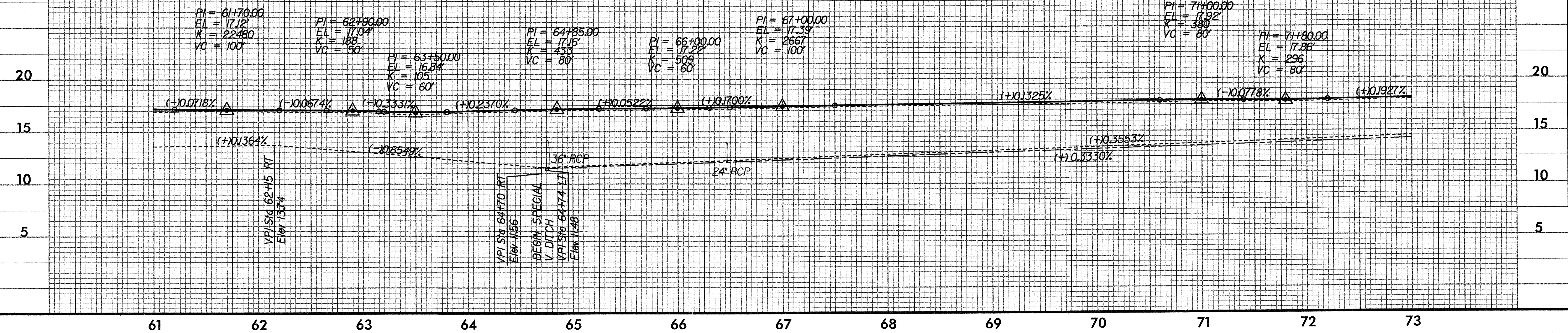


FROM STA. 27+86.22 TO STA. 62+54 LEFT
FROM STA. 64+74 TO STA. 84+00 LEFT
FROM STA. 27+85 TO STA. 41+59.94 RIGHT
FROM STA. 46+67.94 TO STA. 84+00 RIGHT

STA 64+74 PROP. 36" RCP PIPE	
DRAINAGE AREA	= 24 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 14 CFS
DESIGN HW ELEV	= 13J FT
Q100 DISCHARGE	= 17 CFS
Q100 ELEVATION	= 13.4 FT
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=

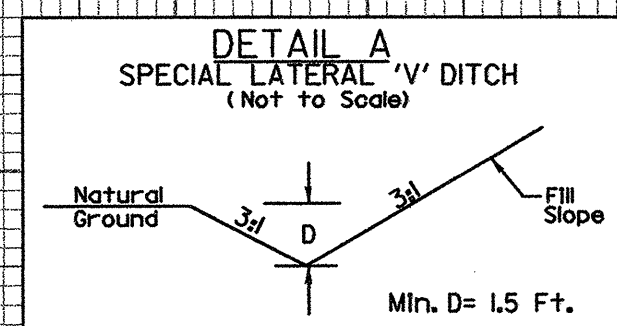
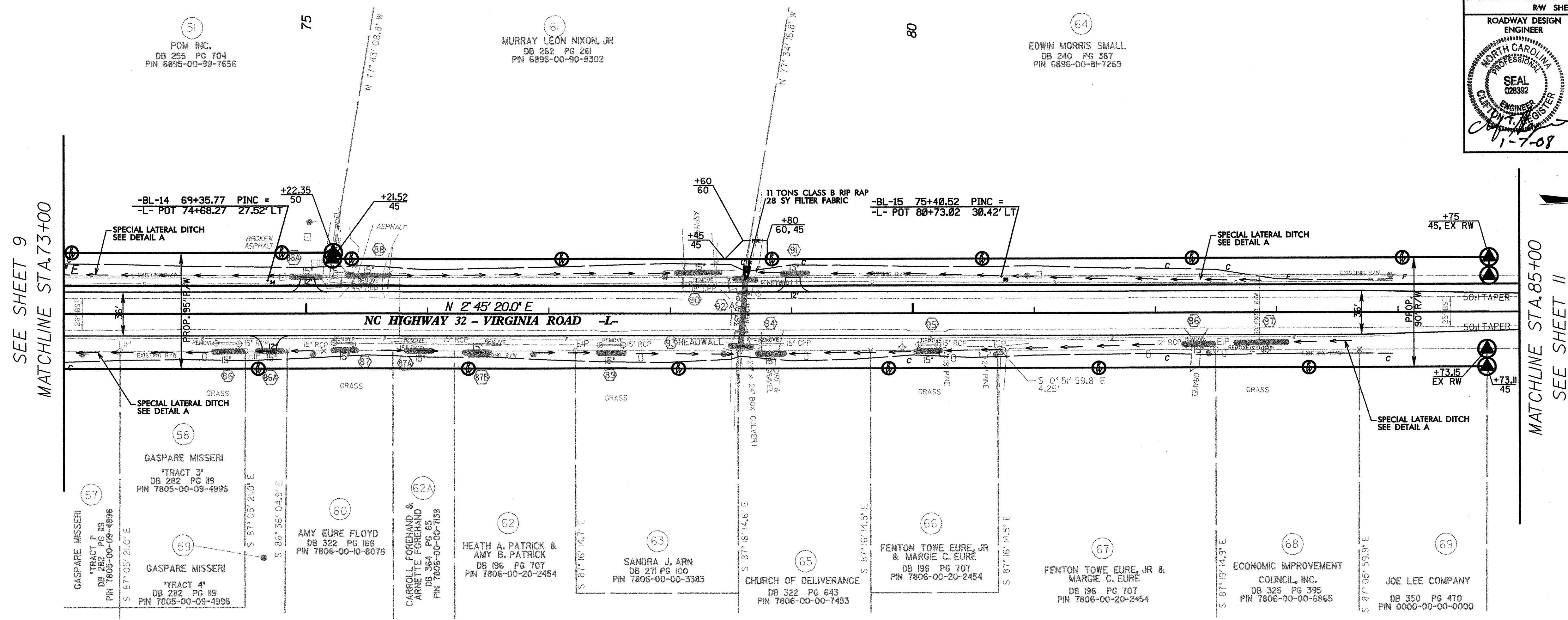
STA 66+45 PROP. 24" RCP PIPE	
DRAINAGE AREA	= 17.5 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 15.2 CFS
DESIGN HW ELEV	=
Q100 DISCHARGE	= 18.4 CFS
Q100 ELEVATION	=
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=

BM #4
-BL- STA 64+94.51
68.25 RT
ELEV. 18.14



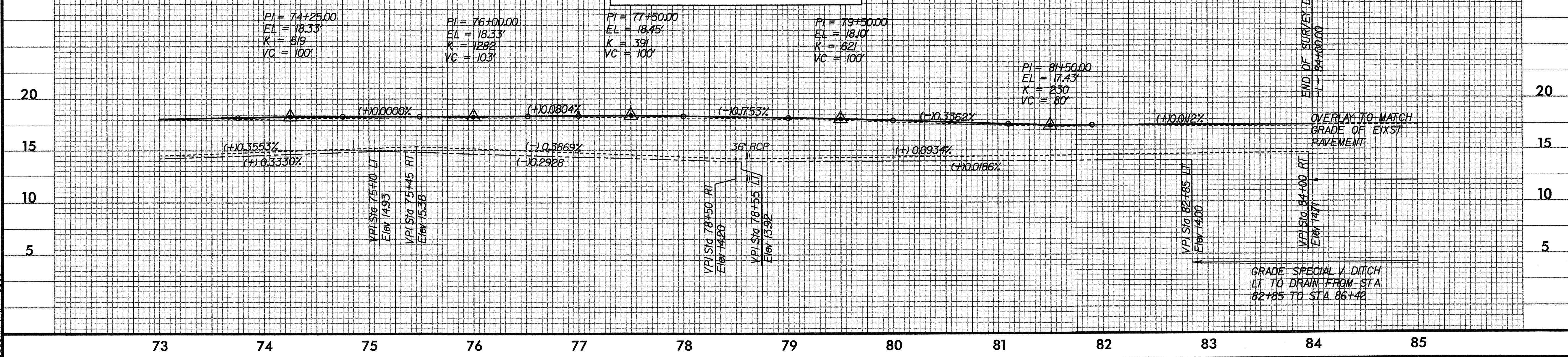
8/17/99

PROJECT REFERENCE NO. 39417	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028382 DAVID V. KIKER 1-7-08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027419 DAVID V. KIKER 1-7-08



FROM STA. 27+86.22 TO STA. 52+54 LEFT
 FROM STA. 64+74 TO STA. 84+00 LEFT
 FROM STA. 27+85 TO STA. 41+59.54 RIGHT
 FROM STA. 46+67.94 TO STA. 84+00 RIGHT

STA 78+60 PROP. 36\"/>	
DRAINAGE AREA	= 13.7 AC
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 9 CFS
DESIGN HW ELEV	= 14.8 FT
Q100 DISCHARGE	= 11 CFS
Q100 ELEVATION	=
OVERTOPPING FREQUENCY	=
OVERTOPPING DISCHARGE	=
OVERTOPPING ELEVATION	=

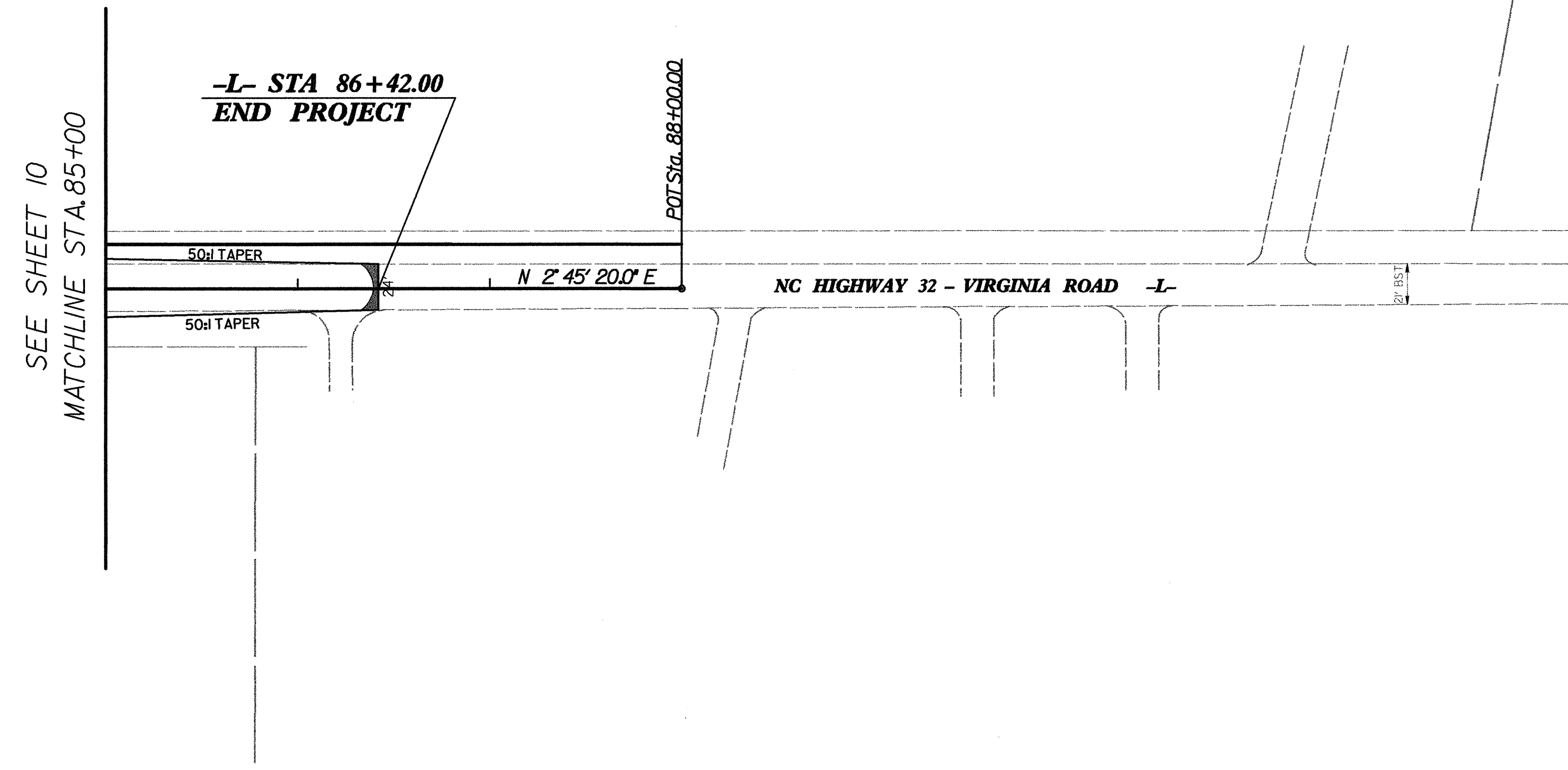


GRADE SPECIAL V DITCH
 LT TO DRAIN FROM STA
 82+85 TO STA 86+42

8/17/99

64
EDWIN MORRIS SMALL
DB 240 PG 387
PIN 6896-00-81-7269

PROJECT REFERENCE NO. 39417	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028382 DAVID J. KIKERY 2/22/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027418 DAVID J. KIKERY 2-22-08



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