

09/28/09

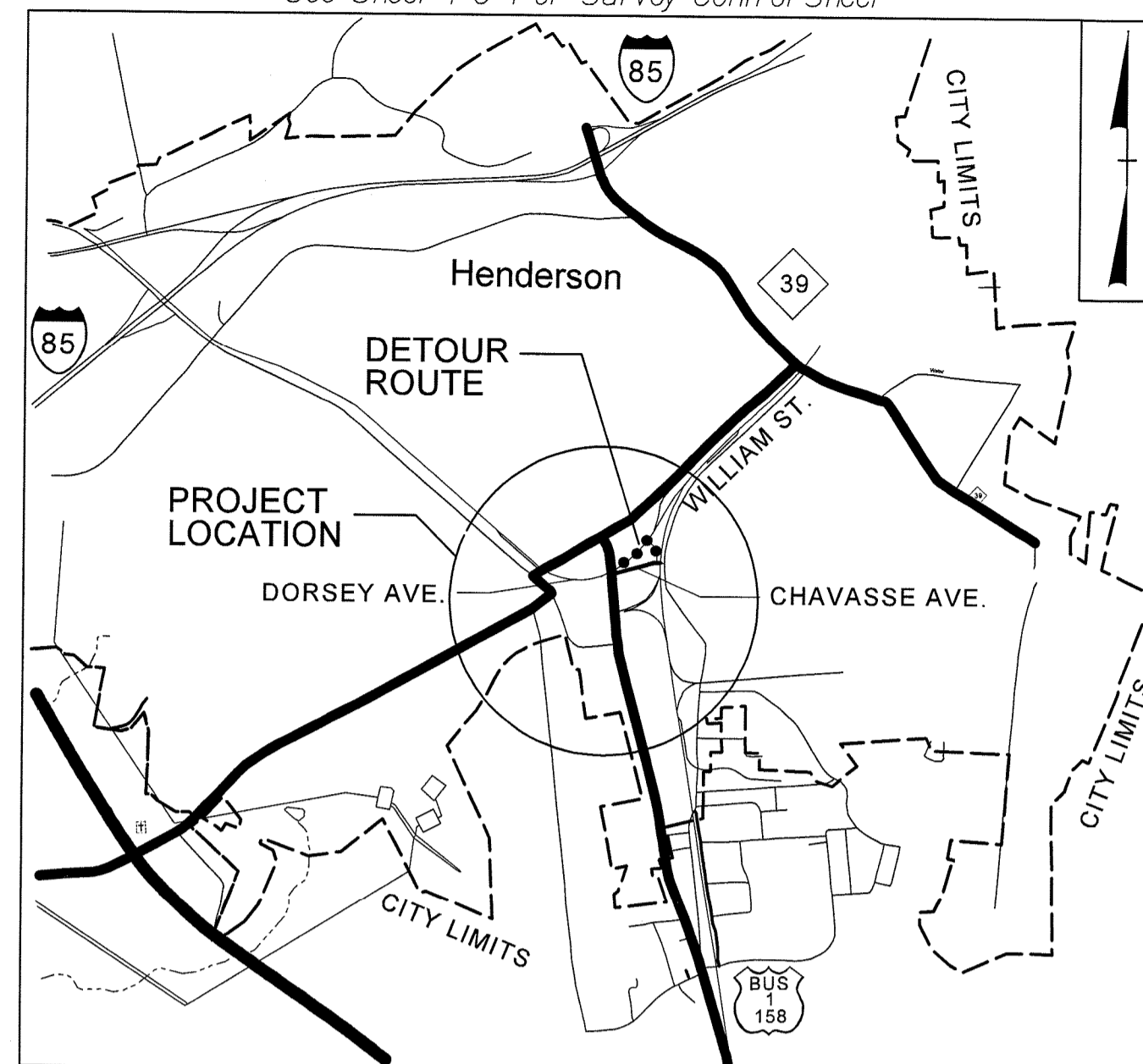
See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional symbols
 See Sheet 1-C For Survey Control Sheet

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
VANCE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	38404	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38404	N/A	PE	
38404	N/A	RW & UTIL	
38404	N/A	CONST.	

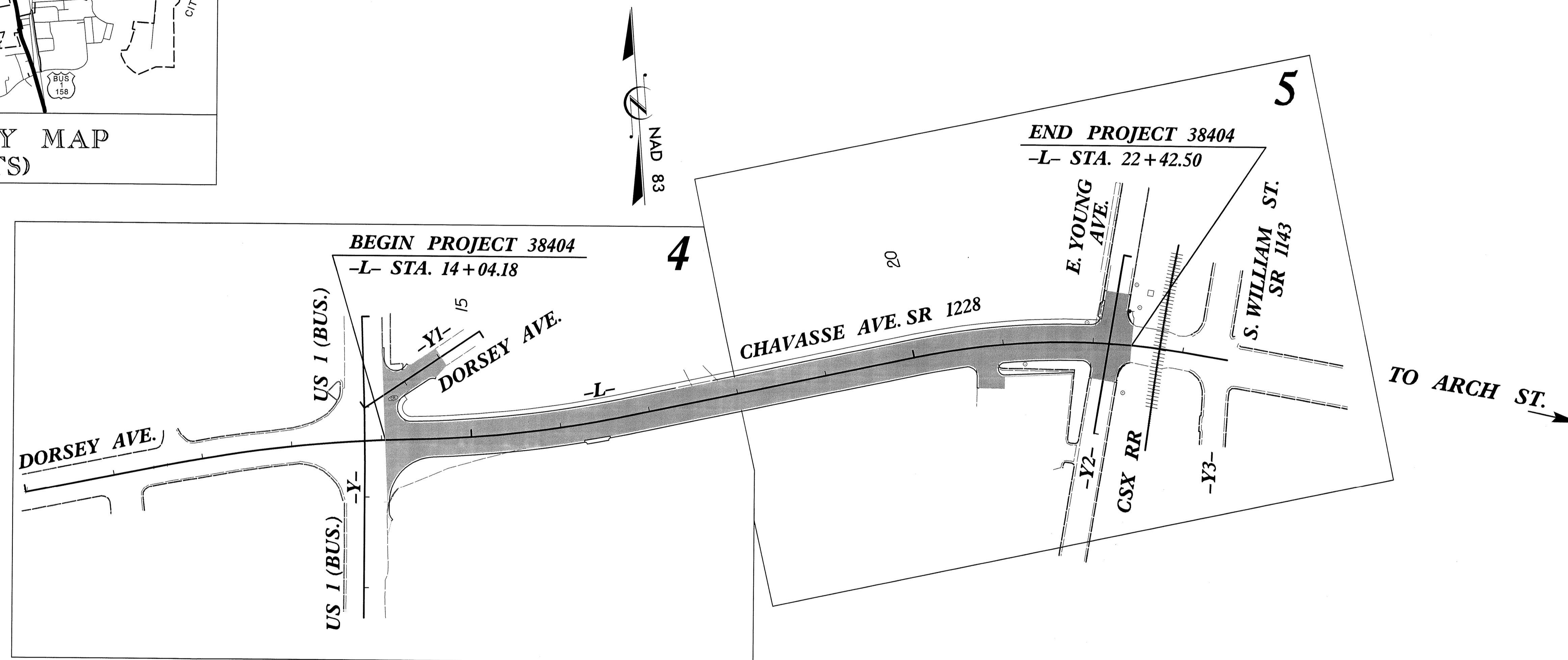
**LOCATION: WIDENING OF SR 1228 (CHAVASSE AVENUE) FROM
 US 1 (BUSINESS) TO SR 1143 (S. WILLIAM STREET)**

**TYPE OF WORK: GRADING, CURB & GUTTER, WIDENING, DRAINAGE,
 PAVING AND PAVEMENT MARKINGS**



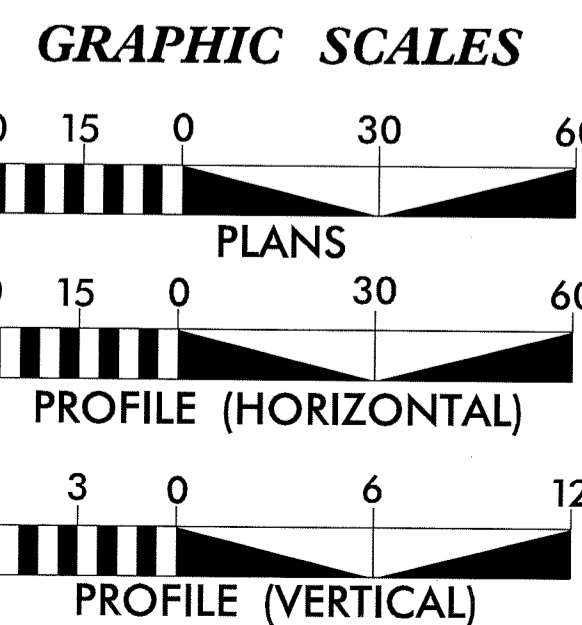
VICINITY MAP
(NTS)

OFF-SITE DETOUR ROUTE



PROJECT: 38404

CONTRACT: DE00095



DESIGN DATA
 V = 40 MPH -L-

PROJECT LENGTH
 LENGTH ROADWAY PROJECT 38404 = 0.159 Mile

Prepared in the Office of:
SEPI
 ENGINEERING & CONSTRUCTION
 1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-788-9977
 Fax: 919-788-9591
 License: C-2197

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: _____

LETTING DATE: _____

STEVE SCOTT, P.E.
PROJECT ENGINEER

AGNIESZKA NAU, P.E.
PROJECT DESIGN ENGINEER

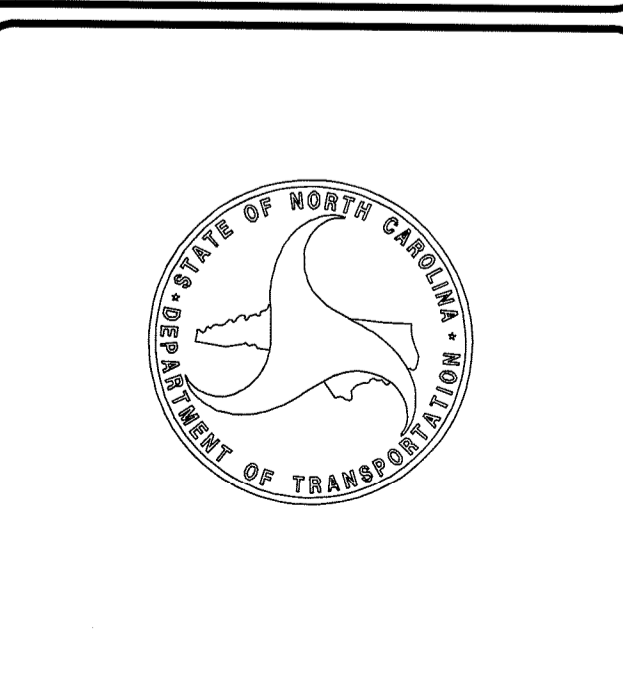
MICHAEL KNEIS, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: *David S. Webb* 5-19-14 P.E.

ROADWAY DESIGN ENGINEER


SIGNATURE: *Agneska Nau* 05-19-14 P.E.



\$\$\$ C:\SYSTEM32\\$\$\$
 \$\$\$ USER\NAME\\$\$\$

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS

PROJECT REFERENCE NO.	SHEET NO.
38404	1-A
RW SHEET NO.	
	
1025 Wade Avenue Raleigh, NC 27605 Tel: 919-789-9977 Fax: 919-789-9591 License: C-2197	

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAIL
2A	INTERSECTION DETAIL
3A	SUMMARY OF EARTHWORK, RIGHT OF WAY QUANTITIES & SUMMARY OF PAVEMENT REMOVAL.
3B	SUMMARY OF DRAINAGE QUANTITIES
4 THRU 5	PLAN SHEETS
6	PROFILE SHEET
TMP-1 THRU TMP-5	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
X-1	CROSS-SECTION INDEX SHEET
X-2 THRU X-6	CROSS-SECTIONS
UC-1 THRU UC-3	UTILITY CONSTRUCTION PLANS
UD-1 THRU UD-2	UTILITY BY OTHERS PLANS
SIG-1 THRU SIG-12	SIGNAL PLANS

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

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 II.

SUPERELEVATION:

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

SHOULDER CONSTRUCTION:

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

SIDE ROADS:

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

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

UNDERDRAINS:

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

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

UTILITIES:

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 CONTRACT.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

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

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 II
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
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.03	Cross Pipe End Section - Precast Concrete Section for 18" to 30" Pipe
310.04	Parallel Pipe End Section - Prefabricated Steel Section for 15" to 24" Pipe
310.05	Cross Pipe End Section - Prefabricated Steel Section for 18" to 30" Pipe
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	
806.01	Concrete Right-of-Way Marker
815.02	Subsurface Drain
815.03	Pipe Underdrain and Blind Drain
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	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
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.05	Curb Ramp - Proposed Curb & Gutter
866.01	Chain Link Fence - 4', 5' and 6' High Fence
866.04	Barbed Wire Fence with Wood Posts (2 - 7 Strands)
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets

5/14/99

12/05/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for boundaries and property: 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 Endangered Animal Boundary, Existing Endangered Plant Boundary, Known Soil Contamination: Area or Site, Potential Soil Contamination: Area or Site.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for buildings and other culture: 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 hydrology: Stream or Body of Water, Hydro, Pool or Reservoir, Jurisdictional Stream, Buffer Zone 1, Buffer Zone 2, Flow Arrow, Disappearing Stream, Spring, Wetland, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

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

RIGHT OF WAY:

Table listing symbols for 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 RW Marker, Proposed Control of Access Line with Concrete CA 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 Drainage / Utility Easement, Proposed Permanent Utility Easement, Proposed Temporary Utility Easement, Proposed Aerial Utility Easement, Proposed Permanent Easement with Iron Pin and Cap Marker.

ROADS AND RELATED FEATURES:

Table listing symbols for roads and related features: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Curb Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line.

Table listing symbols for orchard and vineyard.

EXISTING STRUCTURES:

Table listing symbols for existing structures: MAJOR: Bridge, Tunnel or Box Culvert, Bridge Wing Wall, Head Wall and End Wall; MINOR: 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 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, Designated U/G Power Line (S.U.E.*); 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, 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: 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: 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:

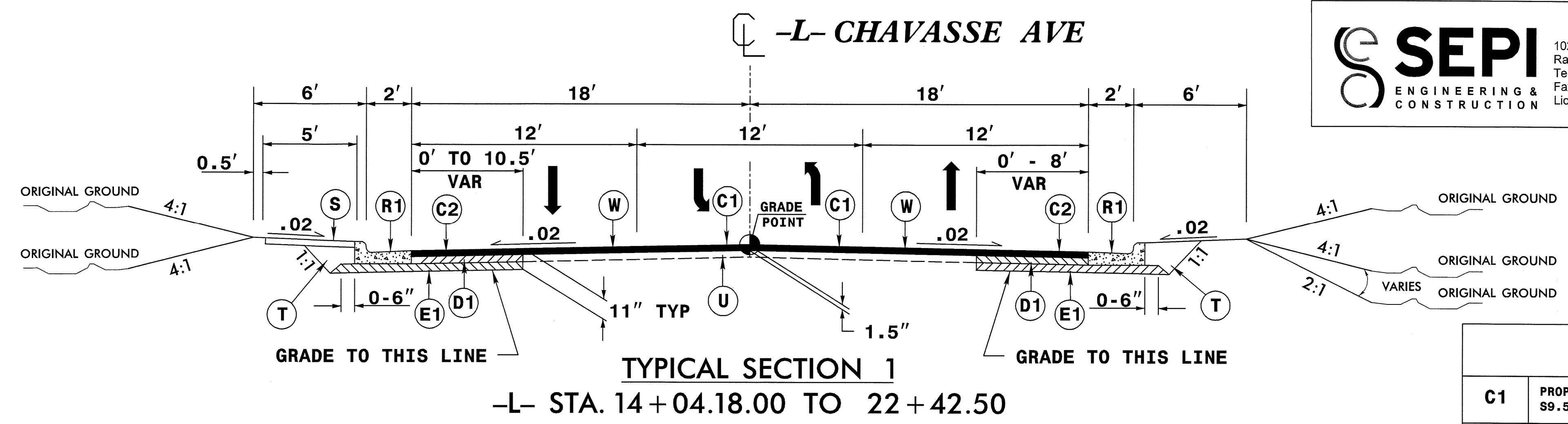
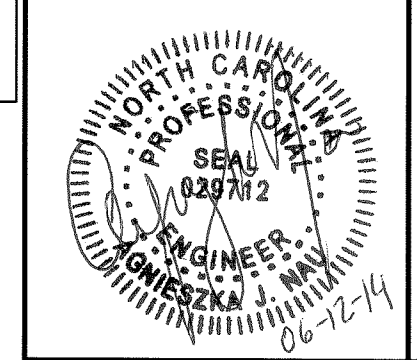
Table listing symbols for gas: Gas Valve, Gas Meter, Recorded U/G Gas Line, Designated U/G Gas Line (S.U.E.*), Above Ground Gas Line.

SANITARY SEWER:

Table listing symbols for sanitary sewer: 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.*).

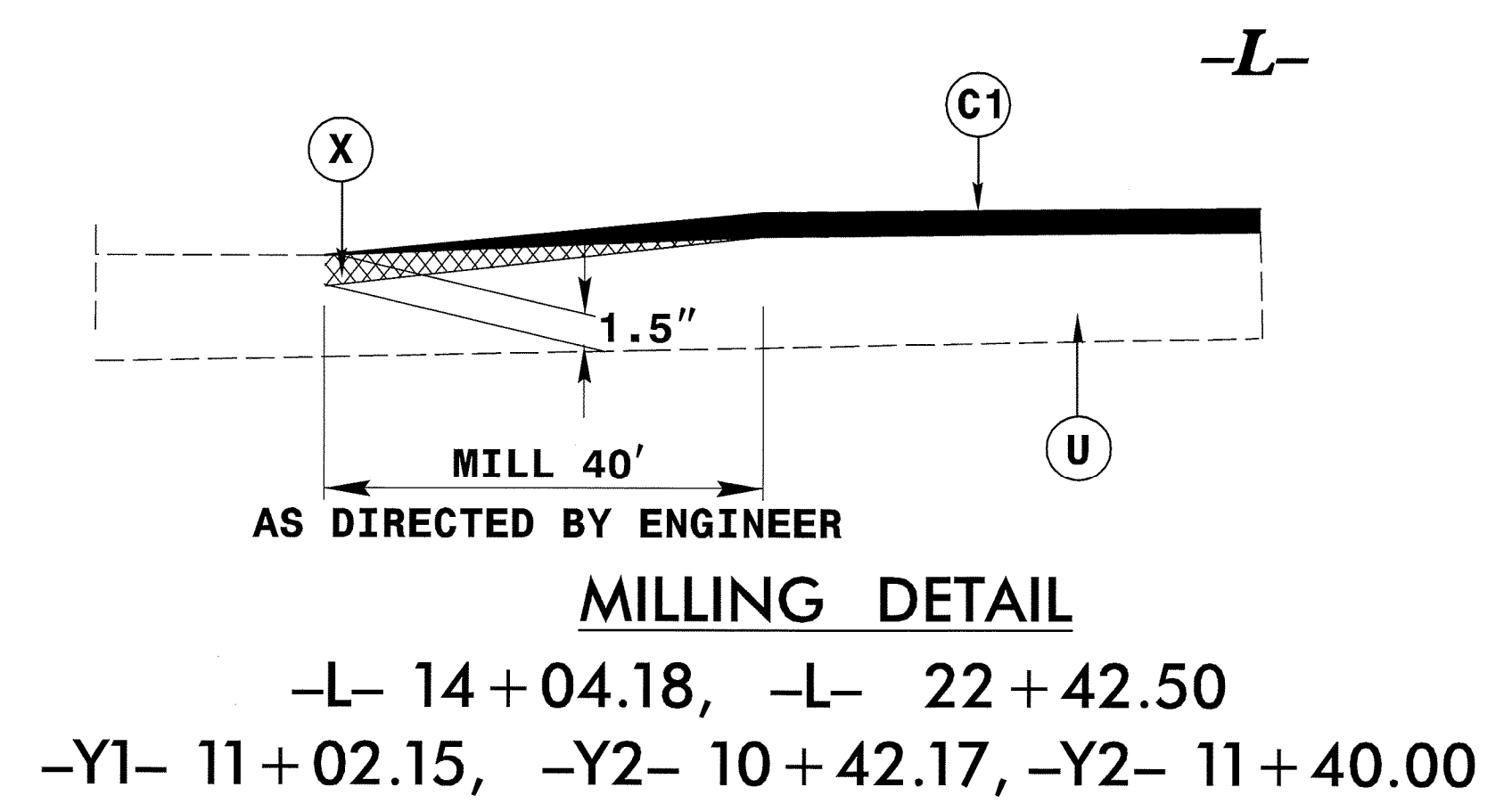
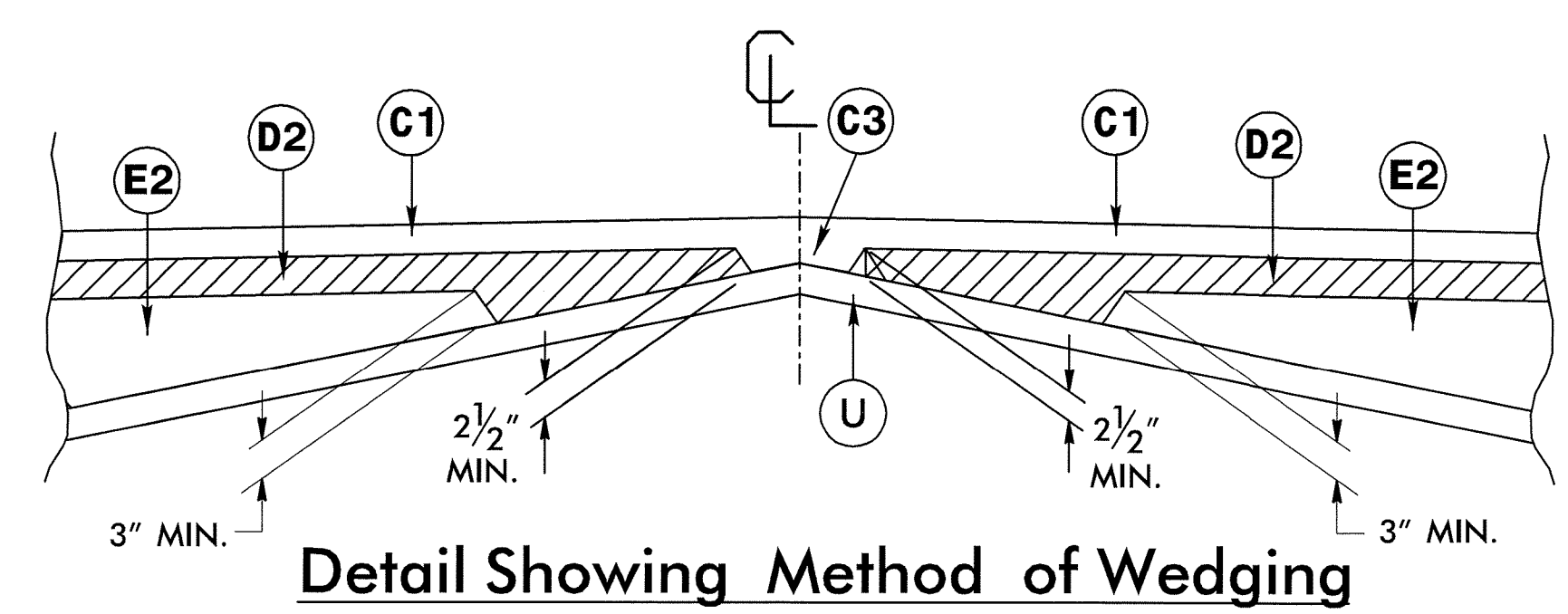
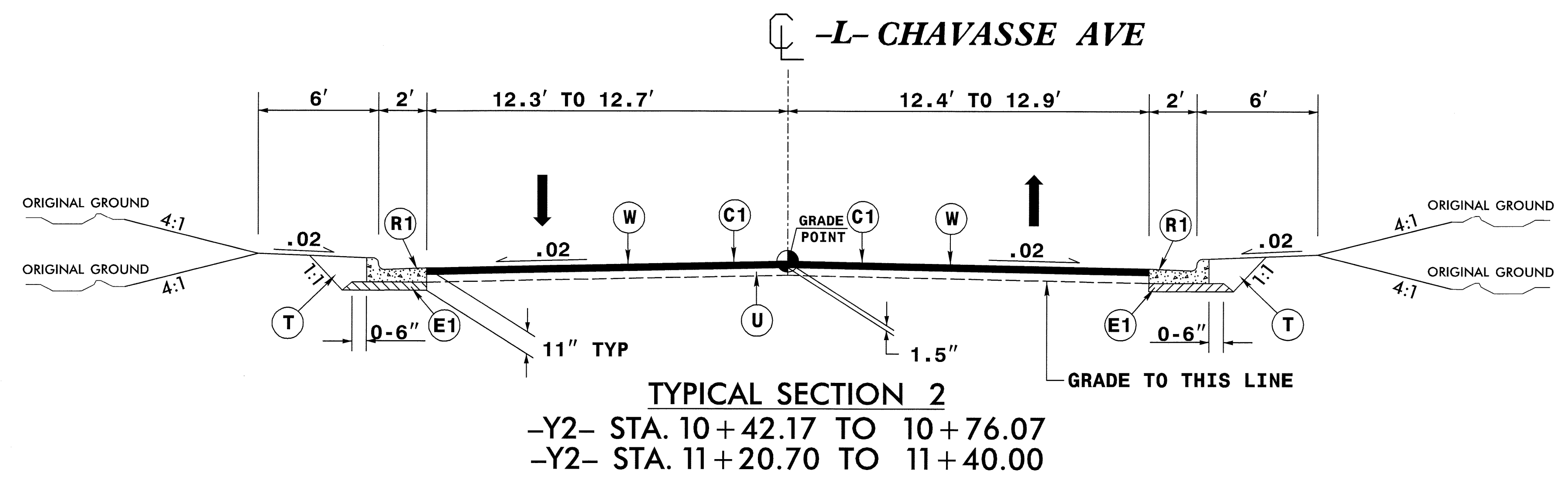
MISCELLANEOUS:

Table listing symbols for miscellaneous: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown U/G Line, U/G Tank; Water, Gas, Oil, Underground Storage Tank, Approx. Loc., A/G Tank; Water, Gas, Oil, Geoenvironmental Boring, U/G Test Hole (S.U.E.*), Abandoned According to Utility Records, End of Information.



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
R1	2'-6" CONCRETE CURB AND GUTTER
S	CONCRETE SIDEWALK
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	WEDGING
X	MILLING

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



REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
38404	2A
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEPI
ENGINEERING & CONSTRUCTION

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Raleigh, NC 27605
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Fax: 919-789-9591
License: C-2197

INTERSECTION DETAIL SHEET

BEGIN 2'-6" C&G
-Y2- Sta. 10+42.17

END 2'-6" C&G
-L- Sta. 22+42.50

BEGIN CONSTRUCTION
-Y2- Sta. 10+42.17

TIE TO EXISTING C&G
-Y2- Sta. 10+42.17

-L- STA. 22+17.58 =
-Y2- STA. 10+99.37

PROP. C&G
TIE TO EXISTING C&G
-L- Sta. 21+79.45

TIE TO EXISTING C&G
-Y2- Sta. 11+40.00

END CONSTRUCTION
-Y2- Sta. 11+40.00

-Y2- POT Sta. 12+00.01

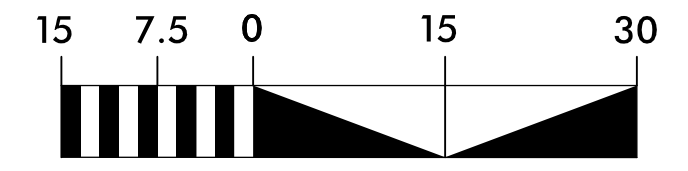
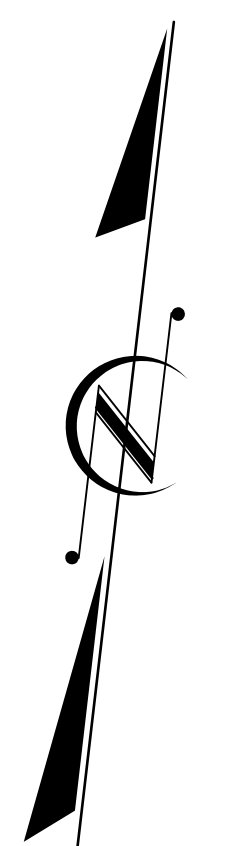
TIE TO EXISTING C&G
-Y2- Sta. 11+40.00

END 2'-6" C&G
-L- Sta. 22+42.50

END CONSTRUCTION
-L- Sta. 22+42.50

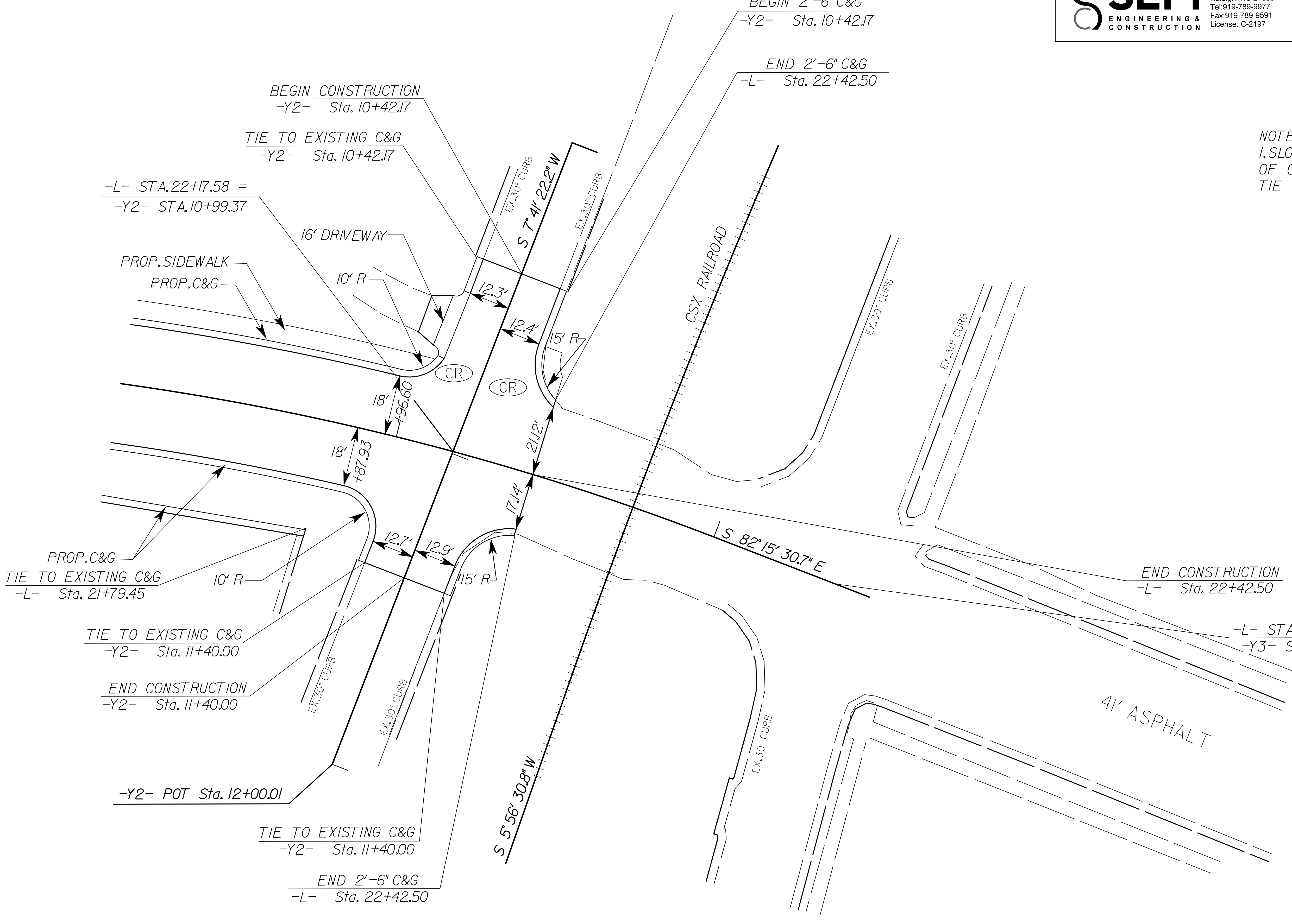
-L- STA. 23+39.05 =
-Y3- STA. 10+96.45

NOTES:
1. SLOPE SIDEWALK & TOP OF CURB AT 1/2" PER 1' TO TIE TO PAVED SHOULDER ELEV.



REVISIONS

8/17/99



6/21/00
 COMPUTED BY: JFP DATE: 9/10/07
 CHECKED BY: SLS DATE: 9/11/07

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.
 38404 3A

RIGHT OF WAY AREA DATA SHEET

SUMMARY OF EARTHWORK IN CUBIC YARDS

PARCEL NO.	PROPERTY OWNERS NAME	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RIGHT	AREA REMAINING LEFT	CONSTR. EASEMENT	PERMANENT DRAINAGE EASEMENT	TEMPORARY DRAINAGE EASEMENT	LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
									-L- STA. 14+00.00 TO 22+42.50					
									SUBTOTAL	257		1318	1061	
1	BOBBY L HOUSE & WIFE	0.16 AC	-		0.16 AC	-	-	-						
2	CITY OF HENDERSON	0.03 AC	1122.19 SF		0	-	-	-						
3	WILLIAM E. PARRISH	0.55 AC	863.63 SF		0.53 AC	3075.23 SF	-	-						
4	HISTORIC MISTLETOE VILLA, LLC	2.39 AC	906.64 SF		2.37 AC	3031.27 SF	-	-	EST. 5% TO REP. TOP SOIL ON BORROW PIT					
5	WILCO HOLDING, LLC	2.64 AC	-	2.64 AC		4372.96 SF	293.81 SF	-						
6	WILCO HOLDING, LLC	?? AC	-	?? AC		1677.68 SF	-	-						
7	WILCO HOLDING, LLC	0.72 AC	-	0.72 AC		1903.25 SF	-	-						
8	John Michael Franklin	0.79 AC	229.82 SF		0.78 AC	2147.75 SF	369.08 SF	-						
									PROJECT TOTAL	257		1318	1061	
									GRAND TOTAL	257		1318	1114	
									SAY	300		1350	1150	

NOTE: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	14+13.27	14+71.02	RT	48.35
TOTAL:				48.35
SAY:				50

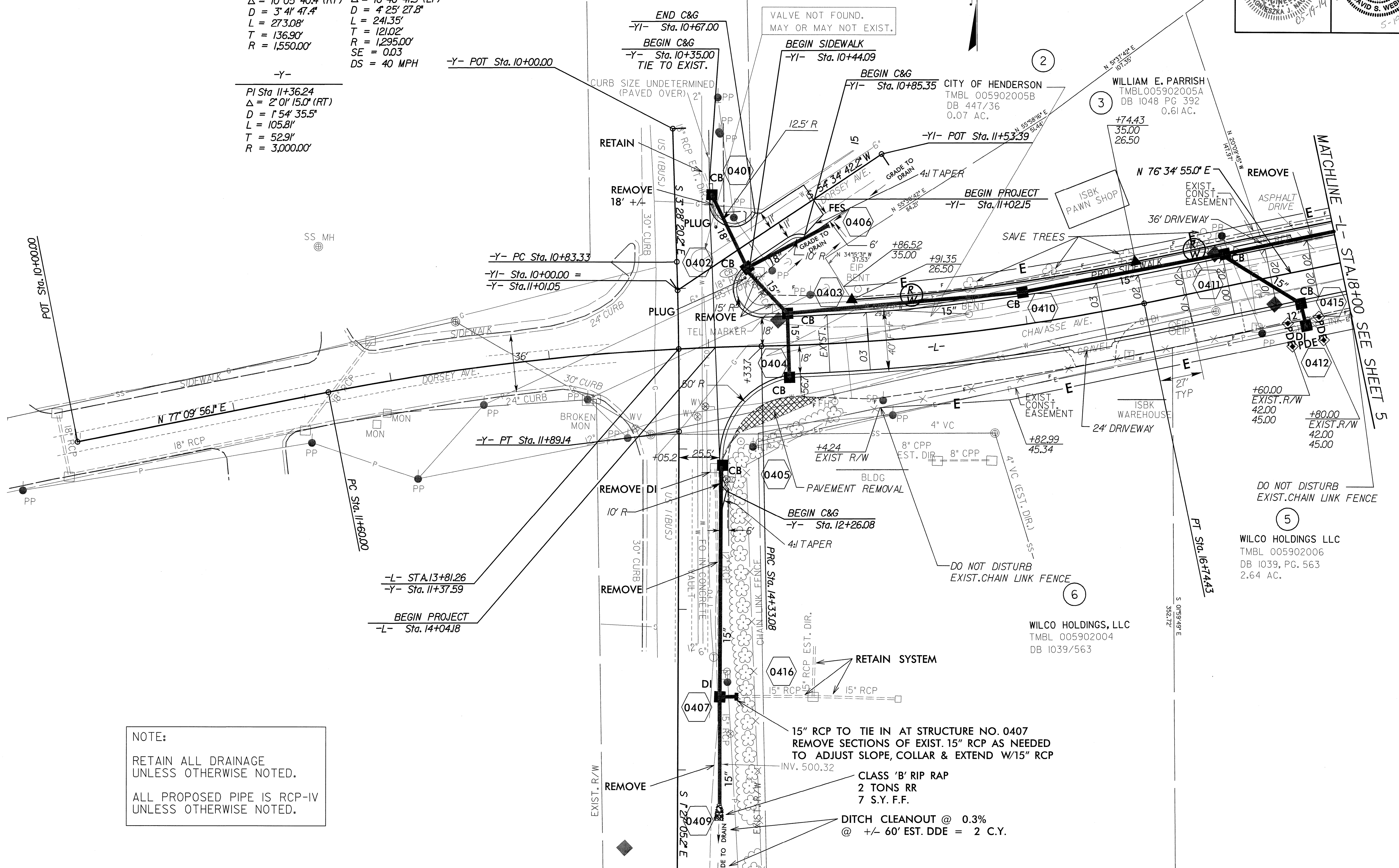
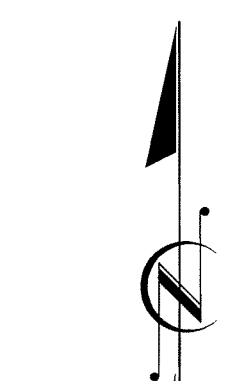
SYSTEMS & SOFTWARE CONSULTANTS, INC.

SEPI
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-L-
PI Sta 12+96.90 Δ = 10° 05' 40.4" (RT) D = 3' 4" 47.4" L = 273.08' T = 136.90' R = 1,550.00'
PI Sta 15+54.11 Δ = 10° 40' 41.5" (LT) D = 4' 25' 27.8" L = 241.35' T = 121.02' R = 1,295.00' SE = 0.03 DS = 40 MPH

-Y-
PI Sta 11+36.24 Δ = 2° 01' 15.0" (RT) D = 1' 54" 35.5" L = 105.81' T = 52.91' R = 3,000.00'

BOBBY L HOUSE & WIFE
TMBL005902006
DB 607/58
0.16 AC.



NOTE:
RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED.
ALL PROPOSED PIPE IS RCP-IV UNLESS OTHERWISE NOTED.

15" RCP TO TIE IN AT STRUCTURE NO. 0407
REMOVE SECTIONS OF EXIST. 15" RCP AS NEEDED TO ADJUST SLOPE, COLLAR & EXTEND W/15" RCP

CLASS 'B' RIP RAP
2 TONS RR
7 S.Y. F.F.

DITCH CLEANOUT @ 0.3%
@ +/- 60' EST. DDE = 2 C.Y.

NOTE: SEE PLAN SHEET 6 FOR PROFILE

REVISIONS

8/17/95

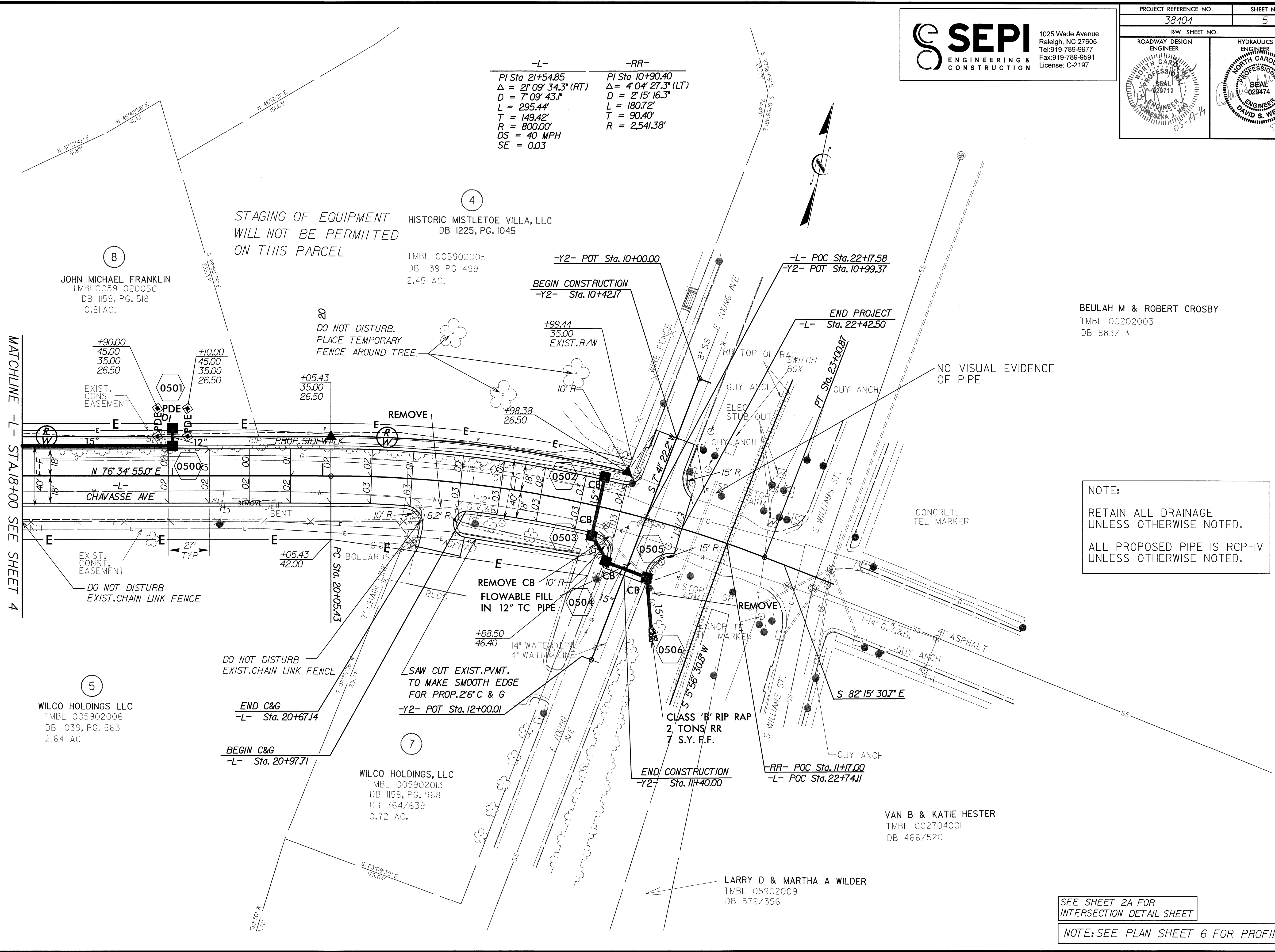
8/17/99

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PROJECT REFERENCE NO. 38404	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER DAVID S. WEBB 028712	HYDRAULICS ENGINEER DAVID S. WEBB 028474

-L-	-RR-
PI Sta 21+54.85	PI Sta 10+90.40
$\Delta = 2^\circ 09' 34.3" (RT)$	$\Delta = 4^\circ 04' 27.3" (LT)$
D = 7' 09' 43.1"	D = 2' 15' 16.3"
L = 295.44'	L = 180.72'
T = 149.42'	T = 90.40'
R = 800.00'	R = 2,541.38'
DS = 40 MPH	
SE = 0.03	



MATCHLINE -L- STA. 18+00 SEE SHEET 4

REVISIONS

8
JOHN MICHAEL FRANKLIN
TMBL0059 02005C
DB 1159, PG. 518
0.81 AC.

4
HISTORIC MISTLETOE VILLA, LLC
DB 1225, PG. 1045
TMBL 005902005
DB 1139 PG 499
2.45 AC.

5
WILCO HOLDINGS LLC
TMBL 005902006
DB 1039, PG. 563
2.64 AC.

7
WILCO HOLDINGS, LLC
TMBL 005902013
DB 1158, PG. 968
DB 764/639
0.72 AC.

VAN B & KATIE HESTER
TMBL 002704001
DB 466/520

LARRY D & MARTHA A WILDER
TMBL 05902009
DB 579/356

BEULAH M & ROBERT CROSBY
TMBL 00202003
DB 883/113

NOTE:
RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED.
ALL PROPOSED PIPE IS RCP-IV UNLESS OTHERWISE NOTED.

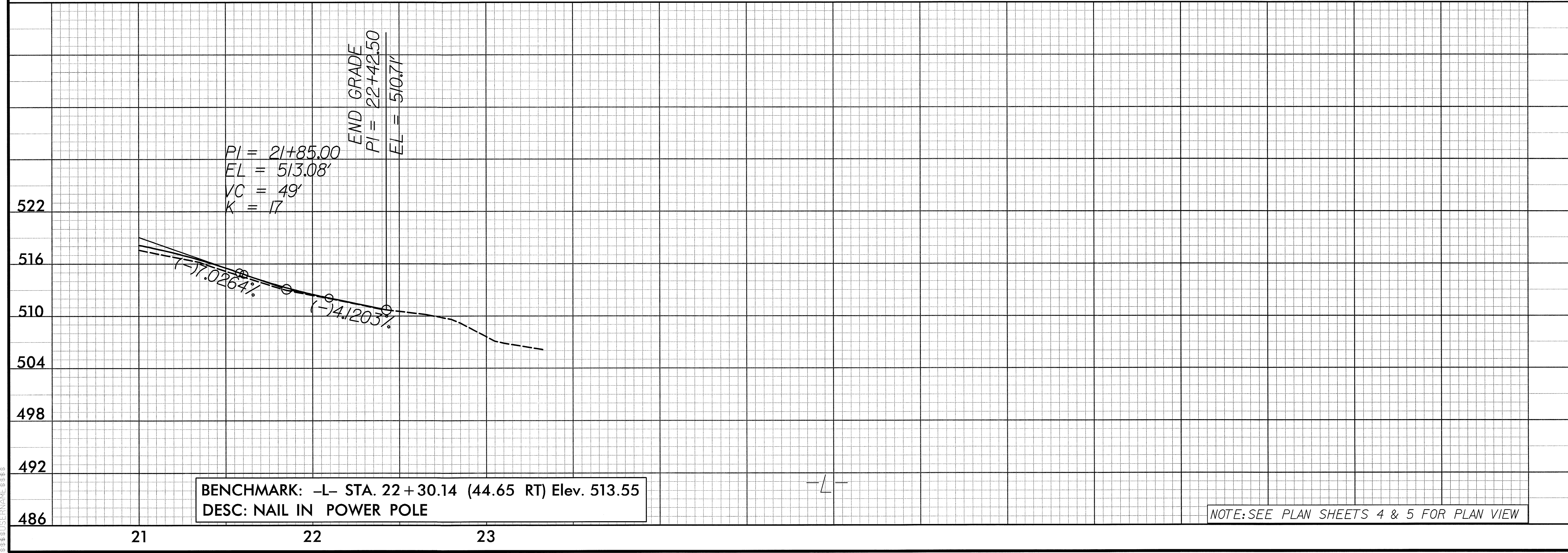
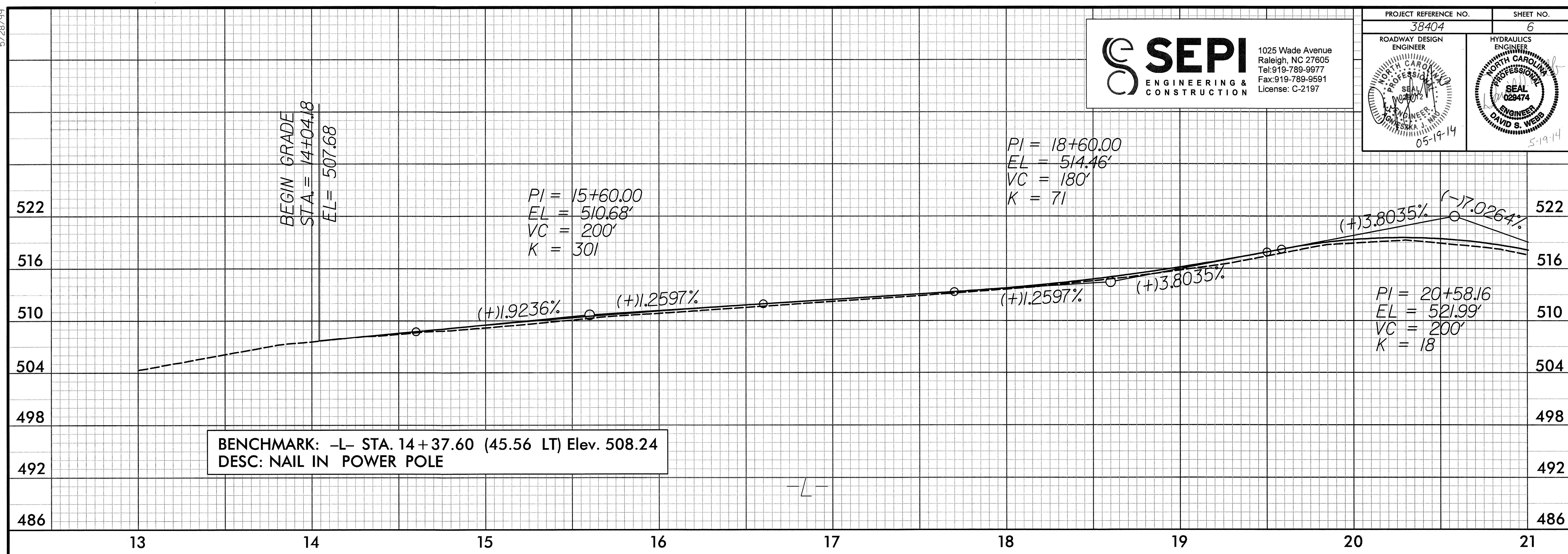
SEE SHEET 2A FOR INTERSECTION DETAIL SHEET

NOTE: SEE PLAN SHEET 6 FOR PROFILE

PROJECT REFERENCE NO. 38404	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEPI
ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197



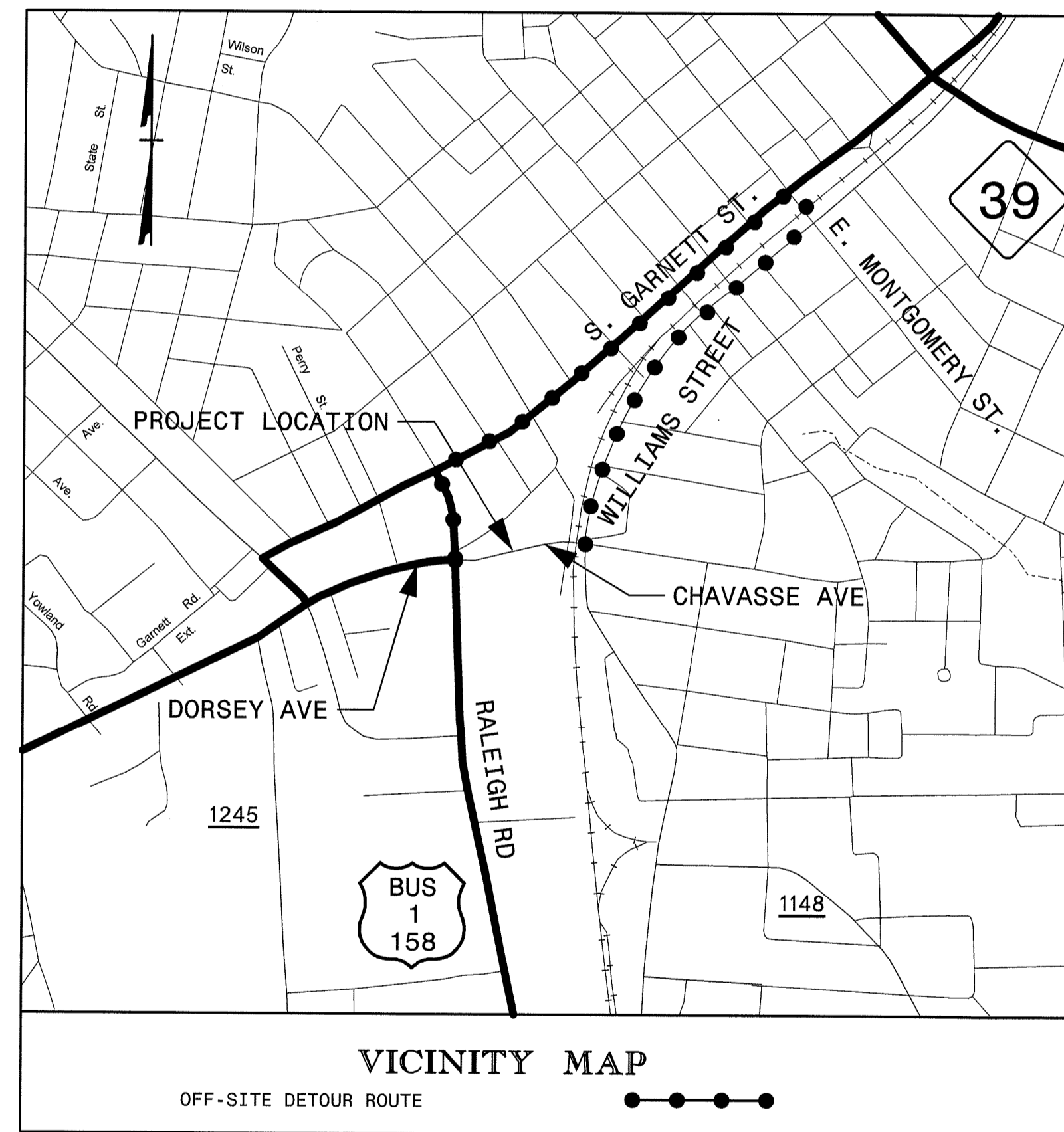
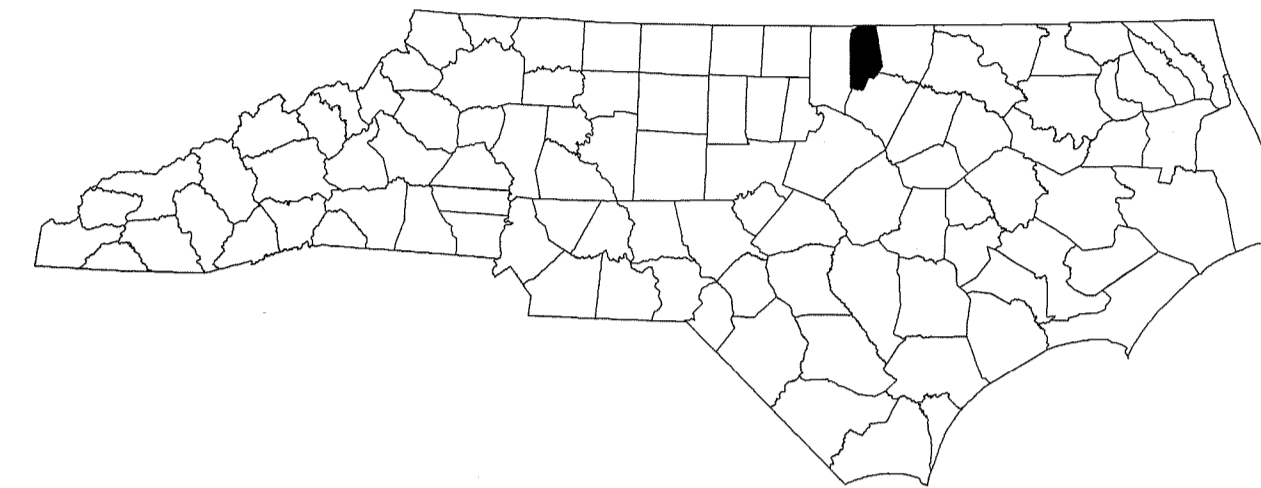
NOTE: SEE PLAN SHEETS 4 & 5 FOR PLAN VIEW

5/28/14
 DATE: 5/28/14
 TIME: 10:00 AM
 DRAWN BY: J. W. WOOD
 CHECKED BY: J. W. WOOD
 PROJECT: 38404

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

VANCE COUNTY



**LOCATION: WIDENING OF SR 1228 (CHAVASSE AVENUE)
FROM US 1 (BUSINESS) TO SR 1143
(S. WILLIAM STREET)**

**TYPE OF WORK: GRADING, CURB & GUTTER, WIDENING,
DRAINAGE, PAVING, AND PAVEMENT
MARKINGS**

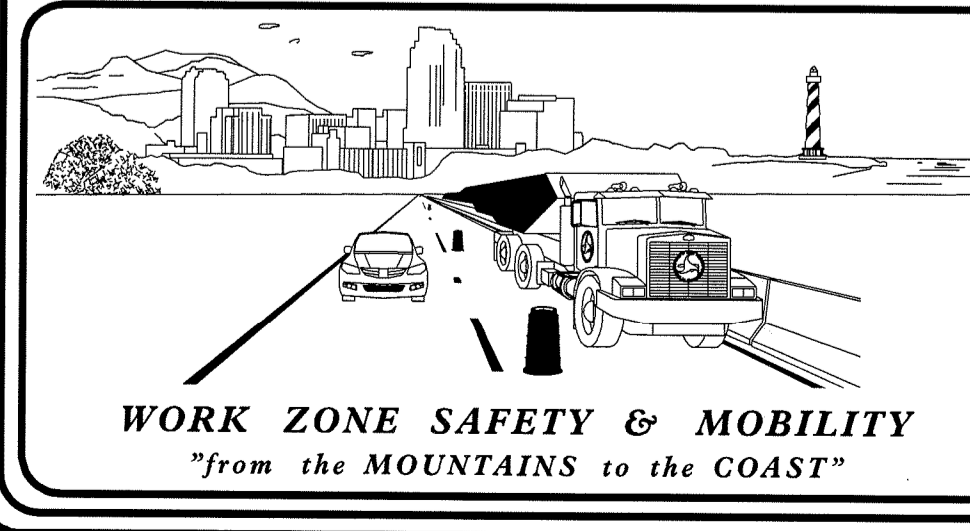
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND PHASING)
TMP-2	SIGN DESIGN
TMP-3	OFF-SITE DETOUR
TMP-4	ROAD CLOSURE
TMP-5	TEMPORARY PAVEMENT MARKING DETAIL

SHEET NO.
TMP-1

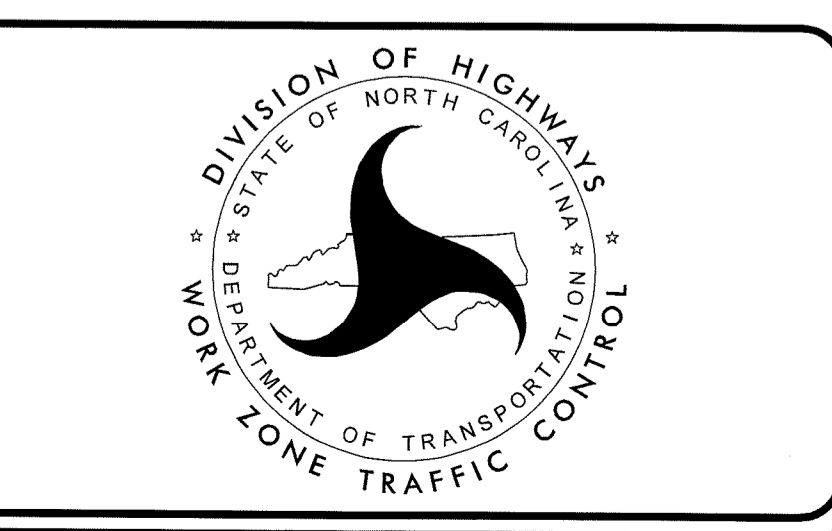
PROJECT: 38404

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DONS\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J.S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
JOSEPH ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
MIKE STEELMAN TRAFFIC CONTROL PROJECT DESIGN ENGINEER
TRAFFIC CONTROL DESIGN ENGINEER



Prepared in the Office of:
SEPI ENGINEERING & CONSTRUCTION
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

APPROVED: *St. Miller*
DATE: 5-15-14

SEAL

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGERS
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

- WORK AREA
- REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	TEMPORARY PAVEMENT MARKINGS
	PAINT(4")
PI	YELLOW DOUBLE CENTER
	PAINT(8")
PN	WHITE GORELINE
PO	WHITE DIAGONAL
PP	YELLOW DIAGONAL
	PAINTMARKING SYMBOLS
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW

\$\$\$SYTIME\$\$\$\$
 \$\$\$CONDN\$\$\$\$
 \$\$\$USERAME\$\$\$\$

APPROVED: DATE: 5-15-14		
ROADWAY STANDARD DRAWINGS & LEGEND		

MANAGEMENT STRATEGIES

- CLOSE SR 1228 (CHAVASSE AVENUE) AND DETOUR TRAFFIC OFF-SITE
- LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES WILL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION
- PROVIDE ONE MONTH NOTICE TO THE ENGINEER, VANCE COUNTY EMERGENCY SERVICES, AND VANCE COUNTY SCHOOL OFFICIALS PRIOR TO ROAD CLOSURES

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 1 BUS.	MON. THRU FRI. 7:00AM - 8:30AM & 4:30PM - 6:00PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME	
US 1 BUS. AND YOUNG ST.	

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY AND 6:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 1 BUS.	MON. THRU FRI. 7:00AM - 8:30AM 4:30PM - 6:00PM	15 MIN. FOR PAVING

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

- J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- K) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- P) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUM), 1135 (CONES) AND 1180 (SKINNY-DRUM) FOR ADDITIONAL REQUIREMENTS.

- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- R) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- S) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

PHASING

STEP 1: USING ROADWAY STANDARD DRAWING (RSD) 1101.01 SHEET 3 OF 3, INSTALL ADVANCE WARNING SIGNS ON -L- AND -Y- LINES. INSTALL CHANGEABLE MESSAGE SIGNS (CMS) INDICATING THE ADVANCE NOTICE OF THE ROAD CLOSURE.

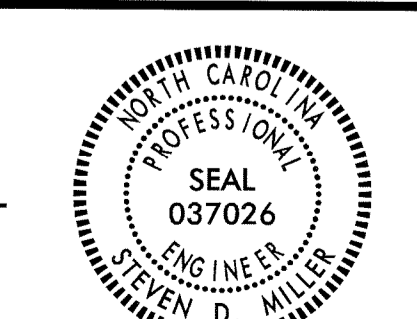
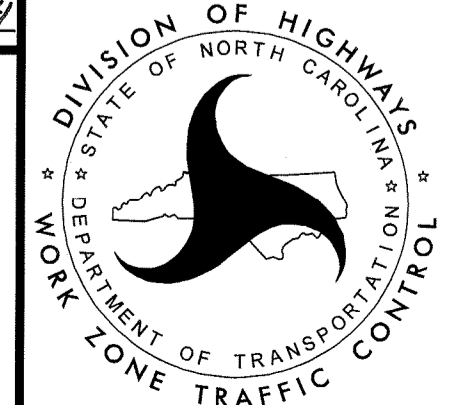
STEP 2: USING RSD 1101.02, SHEETS 1 AND 3 OF 15, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-5 AND IN ACCORDANCE WITH THE TEMPORARY PAVEMENT MARKING SCHEDULE ON TMP-1A. REMOVE CONFLICTING EXISTING MARKINGS. PLACE A YELLOW DOUBLE CENTER LINE ON EAST MONTGOMERY STREET BETWEEN GARNETT STREET AND WILLIAM STREET.
AS SHOWN ON TMP-3 AND TMP-4, USE RSD 1101.03, SHEETS 1 AND 2 OF 9, TO CLOSE CHAVASSE AVENUE (SR 1228) AND DETOUR TRAFFIC OFFSITE. MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES BETWEEN CLOSURES. ACTIVATE TEMPORARY SIGNAL CONFIGURATION. REMOVE CMS.

STEP 3: USING RSD 1101.02, SHEETS 1 AND 3 OF 15, CONSTRUCT -L- AND -Y- LINE IMPROVEMENTS.

STEP 4: PLACE FINAL PAVEMENT MARKINGS AND MARKERS ACCORDING TO THE PAVEMENT MARKING PLANS. REMOVE TEMPORARY MARKINGS AND RETURN TO PRECONSTRUCTION CONDITIONS.

STEP 5: ACTIVATE FINAL SIGNAL CONFIGURATION AND OPEN CHAVASSE AVENUE (SR 1228) TO TRAFFIC AND REMOVE ALL WORK ZONE TRAFFIC CONTROL DEVICES.

PROJ. REFERENCE NO. 38404	SHEET NO. TMP-1B
------------------------------	---------------------

APPROVED: <i>[Signature]</i> DATE: 5-15-14 		<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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PROJECT: SR 1228
 DRAWING: TMP-1B
 DATE: 5-15-14
 DESIGNED BY: [Name]
 CHECKED BY: [Name]
 SUBMITTED BY: [Name]

SIGN NUMBER: SP-1 BACKG COLOR: Fluorescent Orange
 TYPE: STATIONARY COPY COLOR: Black
 QUANTITY: SEE PLANS

DESIGN BY: R DRAYTON
 PROJECT ID: 38404

CHECKED BY: S MILLER
 DIV: 5

DATE: Mar 15, 2013

SIGN WIDTH: 42"
 HEIGHT: 24"
 TOTAL AREA: 7.0 Sq.Feet

BORDER TYPE: RECESSED
 RECESS: 0.5"
 WIDTH: 0.75"
 RADII: 1.38"

MAT'L: 0.125" (3.2 mm) ALUMINUM
 0.079" COMPOSITE



USE NOTES:

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

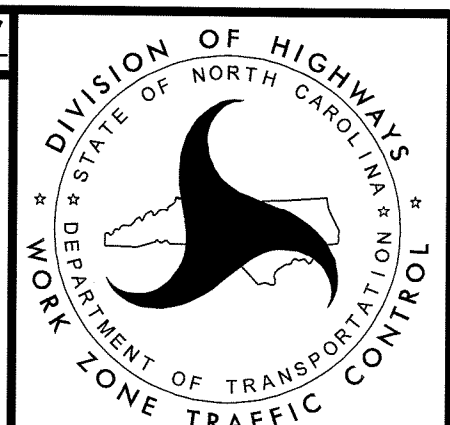
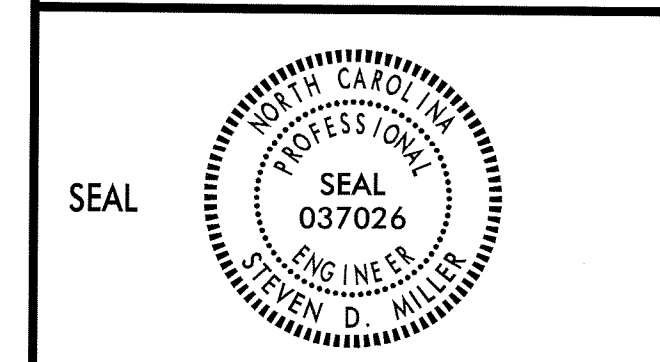
Letter locations are panel edge to lower left corner											Series/Size
C	H	A	V	A	S	S	E				Text Length
4.53	9.09	13.29	17.49	21.57	25.95	30.03	34.41				C 2000
											32.94
A	V	E	N	U	E						Text Length
8.37	12.57	17.13	21.21	25.89	30.57						C 2000
											25.26

FILENAME: sign designs

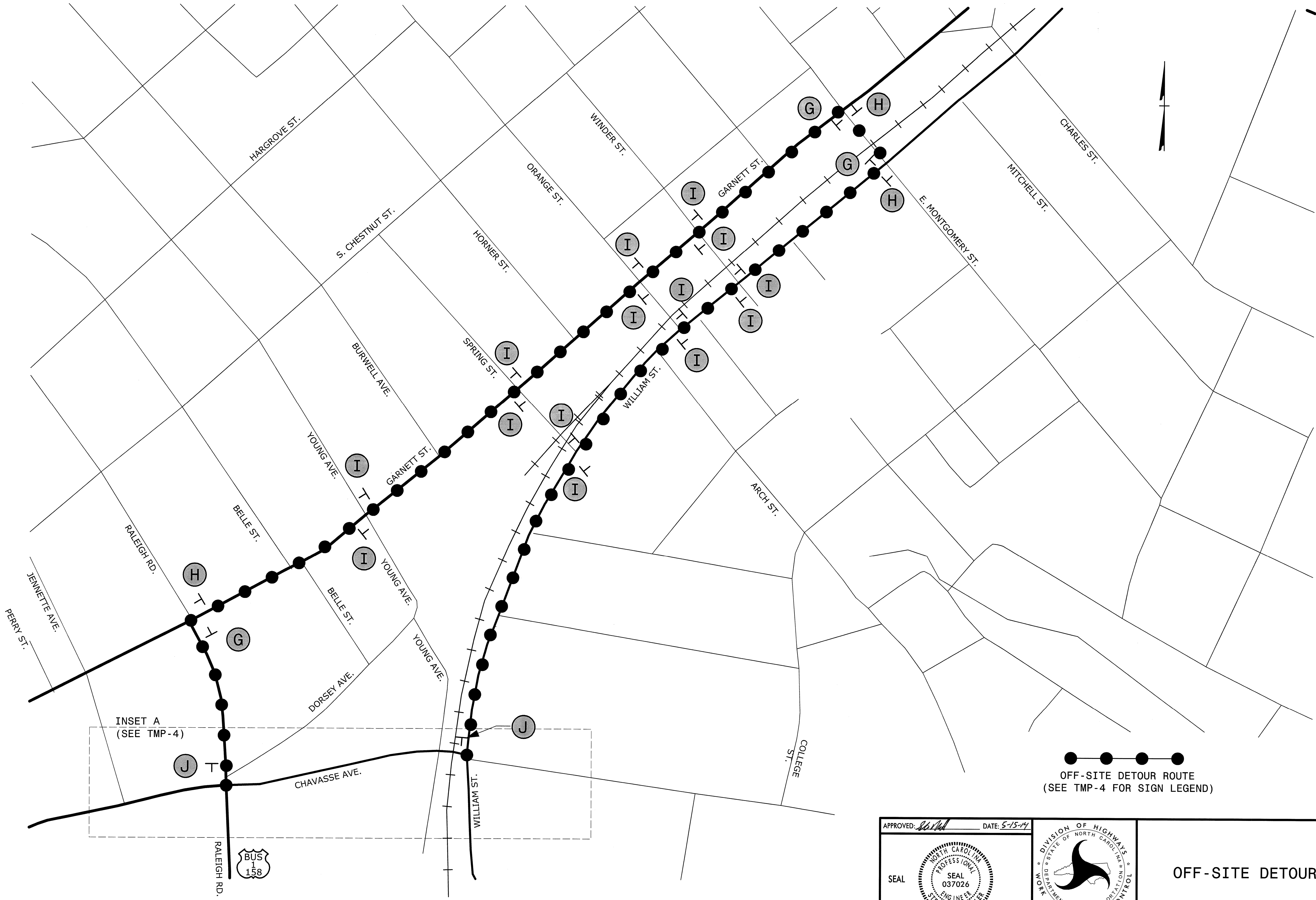
SEPI ENGINEERING & CONSTRUCTION SIGN DETAIL

\$\$\$SYSTEM\$\$\$\$\$\$\$
 \$\$\$\$\$\$DCN\$\$\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$\$\$

APPROVED: *S. Miller* DATE: 5-15-14



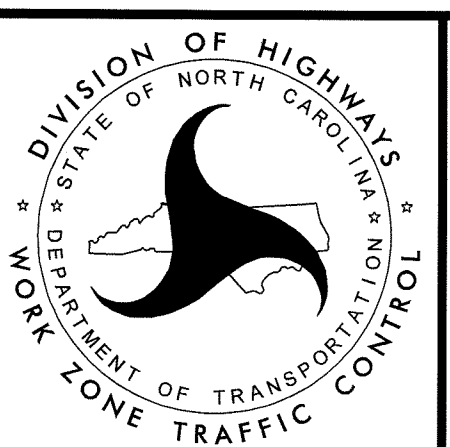
SIGN DESIGN



●●●●●
 OFF-SITE DETOUR ROUTE
 (SEE TMP-4 FOR SIGN LEGEND)

APPROVED: *[Signature]* DATE: 5-15-14

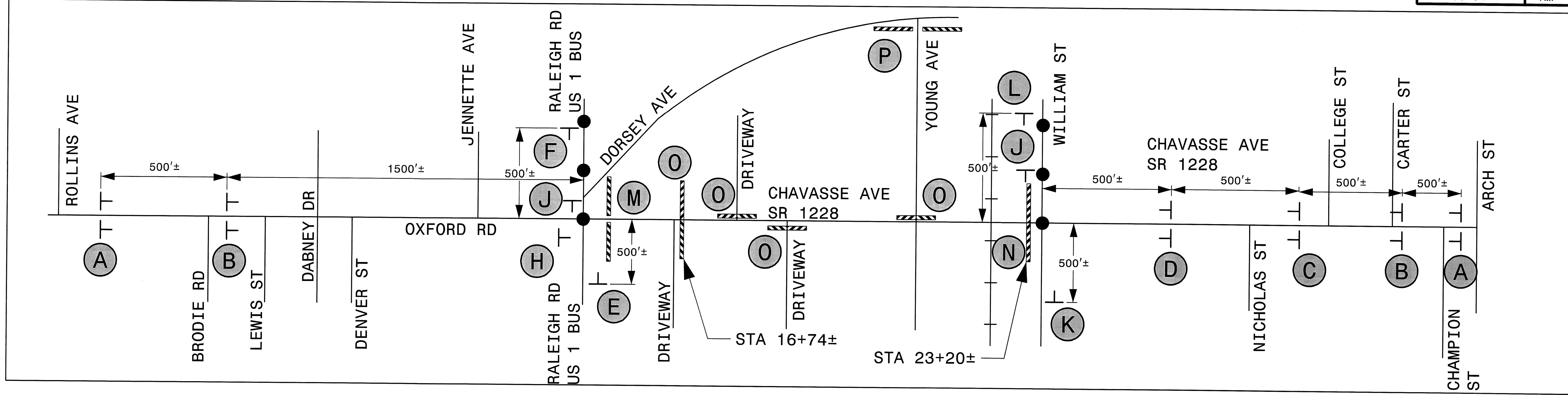
SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 037026
 STEVEN D. MILLER



OFF-SITE DETOUR

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$USERNAME\$\$\$

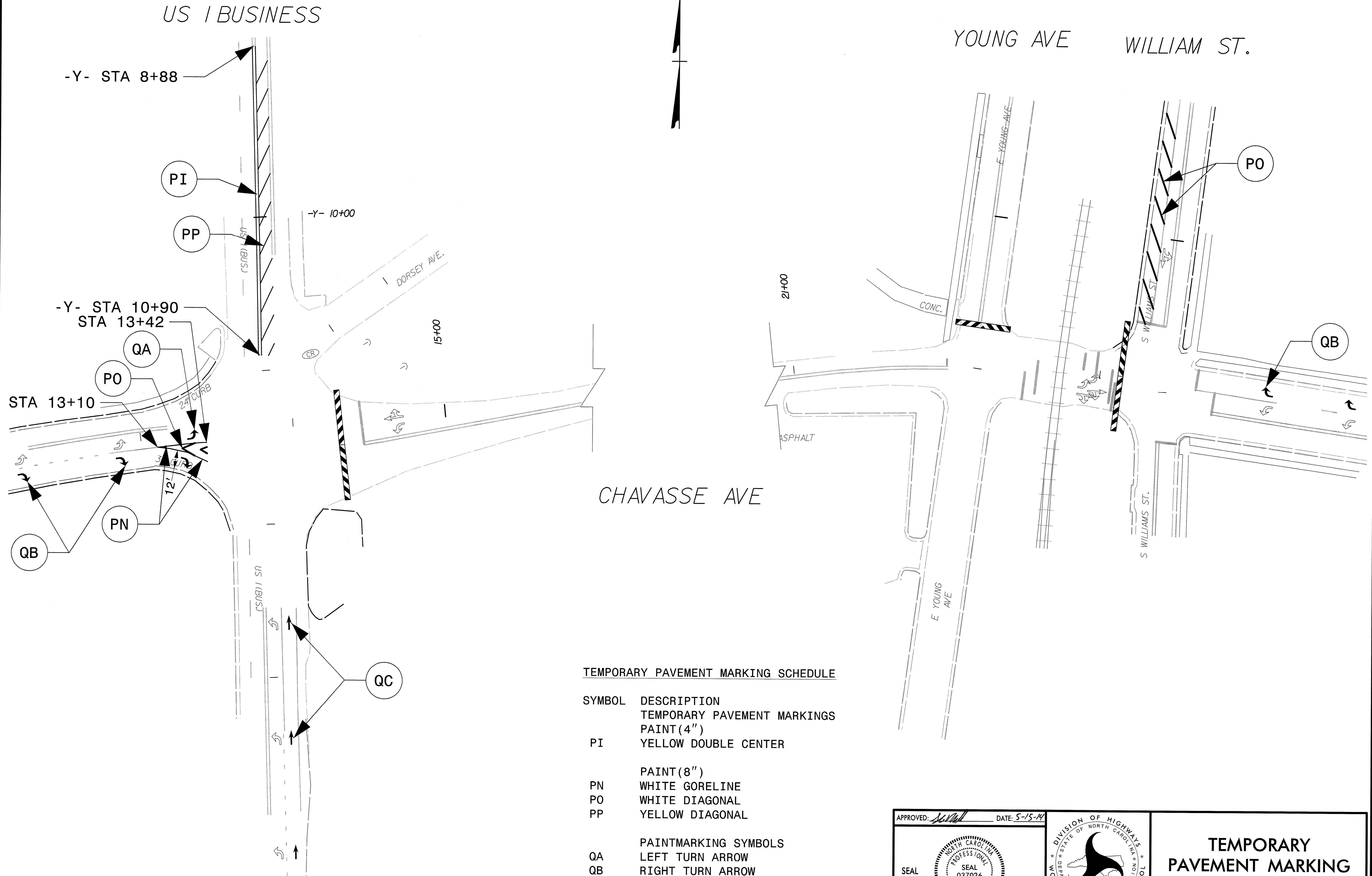
INSET A



 W20-3 48" X 48"	 W20-2 48" X 48"	 W20-3 48" X 48"	 W20-3 48" X 48"	 W20-3 48" X 48" SP-4R 48" X 12"	 W20-3 48" X 48" SP-4L 48" X 12"	 SP-1 42" X 24" M4-8 24" X 12" M6-1 21" X 15"	 SP-1 42" X 24" M4-8 24" X 12" M6-1 L 21" X 15"	 SP-1 42" X 24" M4-8 24" X 12" M6-3 21" X 15"	 SP-1 42" X 24" M4-8 A 24" X 18"
 W20-3 48" X 48" R3-2 24" X 24"	 W20-3 48" X 48" R3-1 24" X 24"	 R11-4 60" X 30" M4-10L 48" X 18"		 R11-2 48" X 30" M4-10R 48" X 18"		 R11-2 48" X 30"			
 R11-4 60" X 30"									

\$\$\$SYTIME\$\$\$\$
 \$\$\$DONR\$\$\$\$
 \$\$\$USERNAME\$\$\$\$

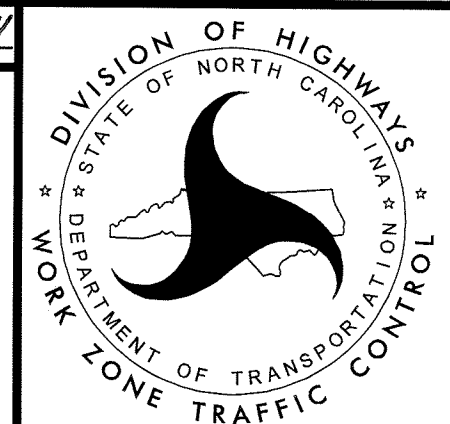
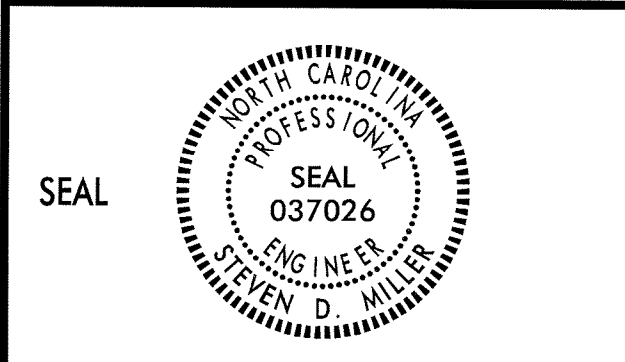
APPROVED: <i>[Signature]</i> DATE: 5-15-14 SEAL 	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL 	ROAD CLOSURE
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TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	TEMPORARY PAVEMENT MARKINGS PAINT (4")
PI	YELLOW DOUBLE CENTER
	PAINT (8")
PN	WHITE GORELINE
PO	WHITE DIAGONAL
PP	YELLOW DIAGONAL
	PAINTMARKING SYMBOLS
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW

APPROVED: *[Signature]* DATE: 5-15-14



TEMPORARY PAVEMENT MARKING DETAIL

PROJECT: 38404

CONTRACT:

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
VANCE COUNTY**

**LOCATION: WIDENING OF SR 1228 (CHAVASSE AVENUE)
FROM US 1 (BUSINESS) TO SR 1143
(S. WILLIAM STREET)**

PROJECT NO. 38404	SHEET NO. PMP - 1
APPROVED:	
DATE: 5-15-14	
SEAL	

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING
PMP-3	PAVEMENT MARKING DETAIL

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
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1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
T1	WHITE LINE, RR X <u>THERMOPLASTIC(16", 120 MILS)</u>
T2	WHITE STOPBAR <u>THERMOPLASTIC(24", 120 MILS)</u>
T8	2 FT. - 6 FT./SP WHITE MINISKIP <u>THERMOPLASTIC(4", 120 MILS)</u>
TD	3 FT. - 9 FT./SP WHITE MINISKIP
TE	WHITE SOLID LANE LINE
TF	10 FT. YELLOW SKIP
TH	YELLOW SINGLE CENTER
TI	YELLOW DOUBLE CENTER
UI	ALPHANUMERIC CHAR. <u>THERMOPLASTICPAVEMENT MARKING CHARACTER (120 MILS)</u>
UA	LEFT TURN ARROW <u>THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)</u>
UE	COMBO.STRAIGHT/RIGHT
MA	YELLOW & YELLOW <u>PERMANENT RAISED PAVEMENT MARKERS</u>
MB	CRYSTAL & RED

GENERAL NOTES

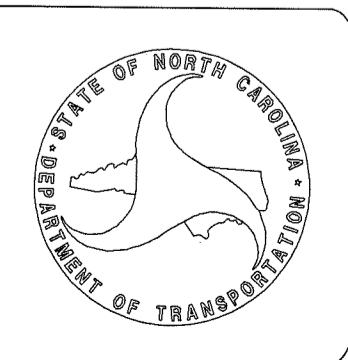
THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
CHAVASSE	THERMOPLASTIC	PERMANENT RAISED
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- F) MARKERS SHALL BE INSTALLED ACCORDING TO THE NCDOT ROADWAY STANDARD DRAWING 1250.01.
- G) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

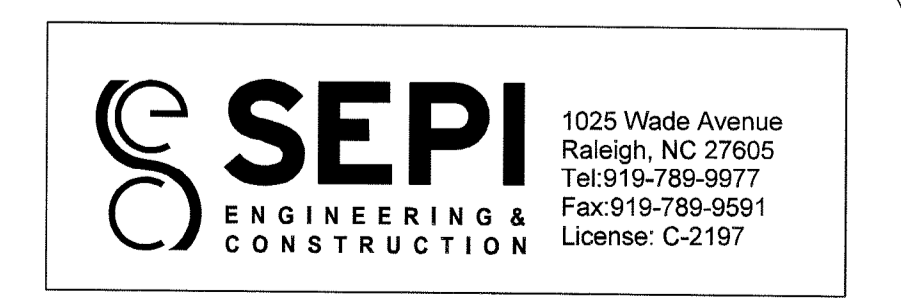
PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

<u>SUSAN KUNZ</u>	SIGNING & DELINEATION STANDARDS ENGINEER
_____	SIGNING & DELINEATION PROJECT DESIGN ENGINEER




PLAN PREPARED BY: SEPI ENGINEERING & CONSTRUCTION

<u>STEVE MILLER, PE</u>	TRANSPORTATION ENGINEER
<u>RICHARD DRAYTON</u>	TRANSPORTATION DESIGN ENGINEER

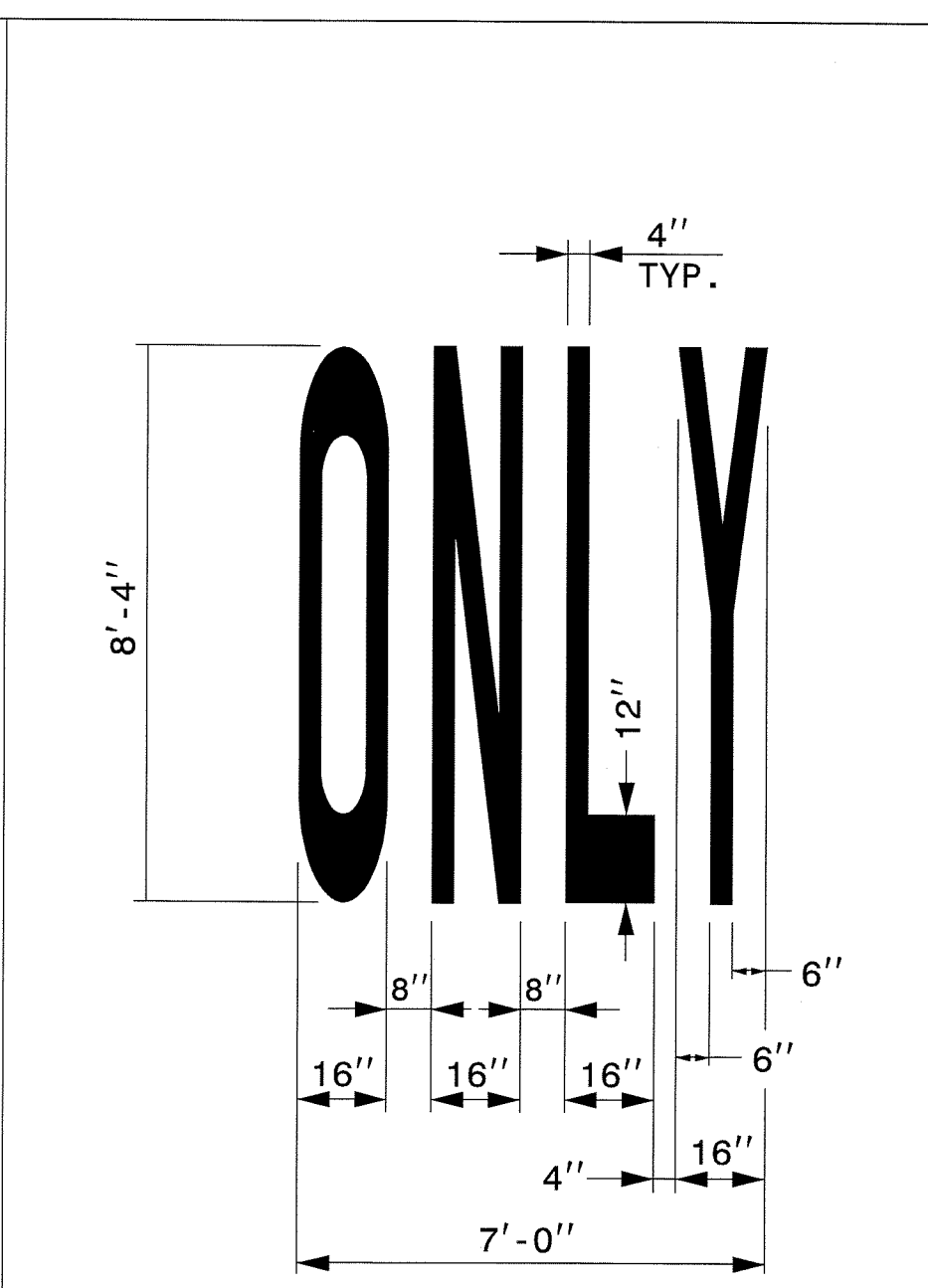
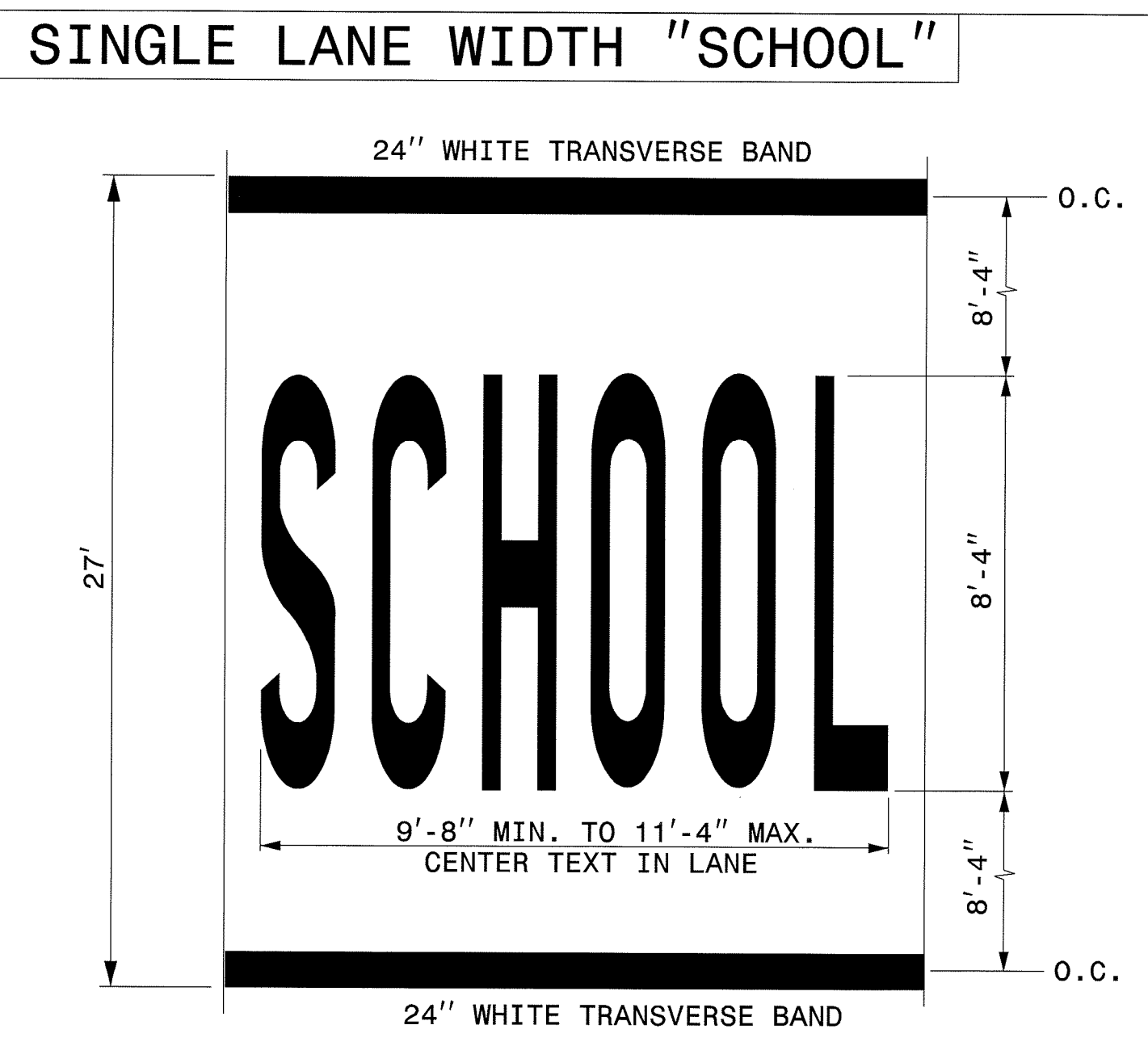
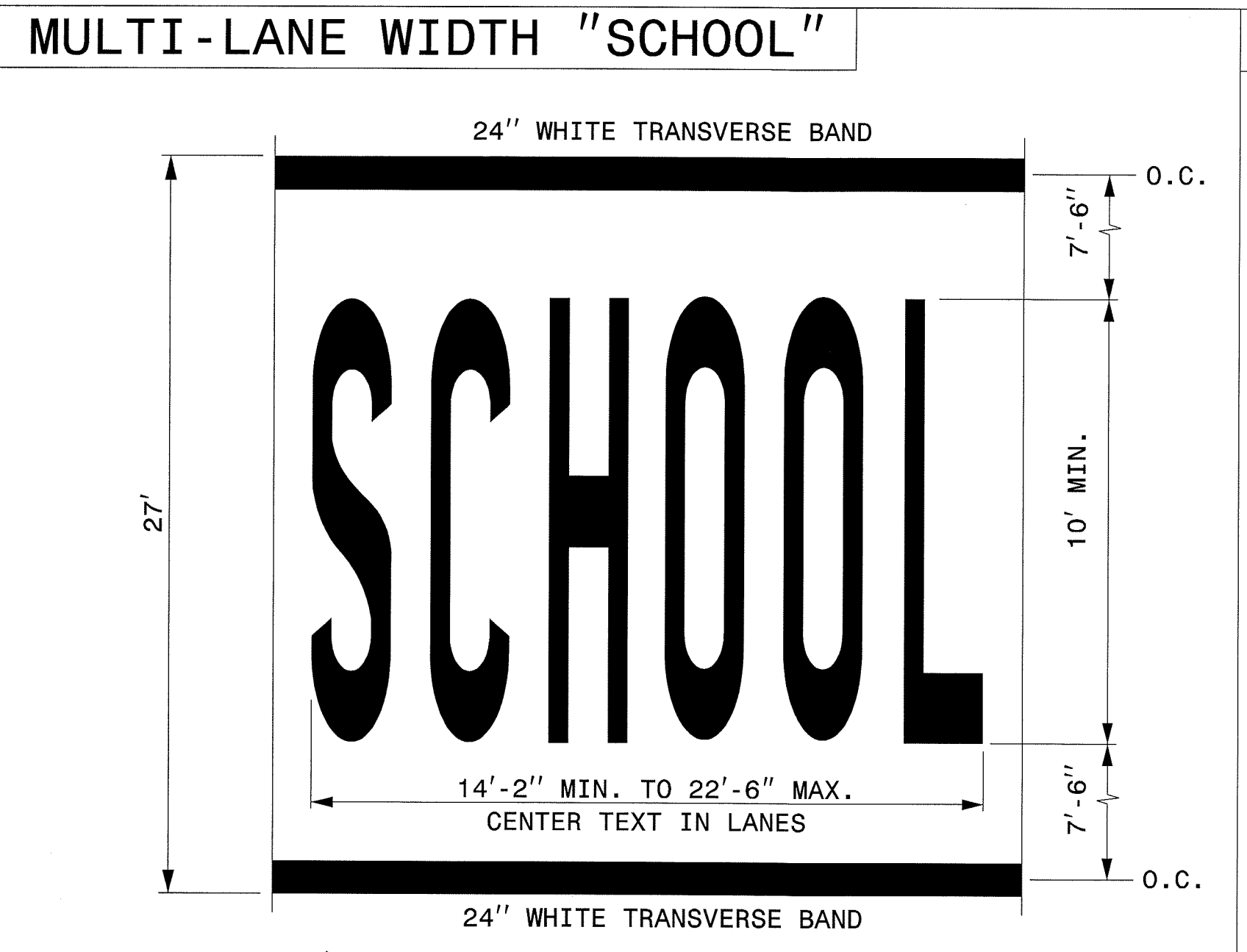


SYSTEMS
 DESIGN
 CONSULTING
 INC.

PROJECT NO.	SHEET NO.
38404	PMP - 2
APPROVED: <i>St M</i>	
DATE: 5-15-14	
SEAL	



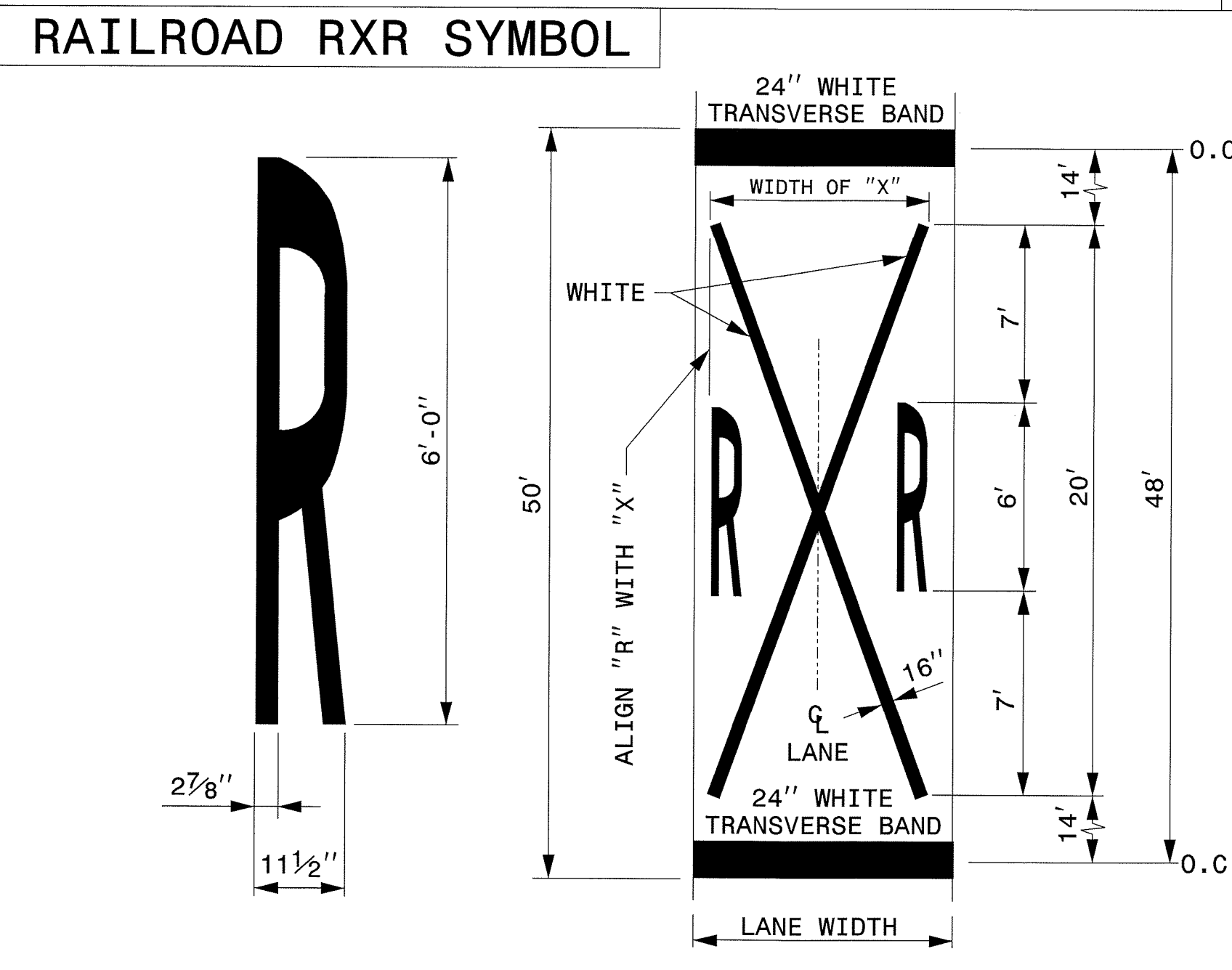
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.



LETTER HEIGHT = 10' MIN.
 LETTER WIDTH = 20"
 SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)
 NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

LETTER HEIGHT = 8'-4"
 LETTER WIDTH = 16"
 SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 SYMBOLS AND WORD MESSAGES



LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
8' ≤ W ≤ 9'	7'
9' < W ≤ 12'	8'
W > 12'	10'

- GENERAL NOTES:
- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
 - 2- PAVEMENT MARKING IN ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID FOR UNDER TWO SEPARATE PAY ITEMS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

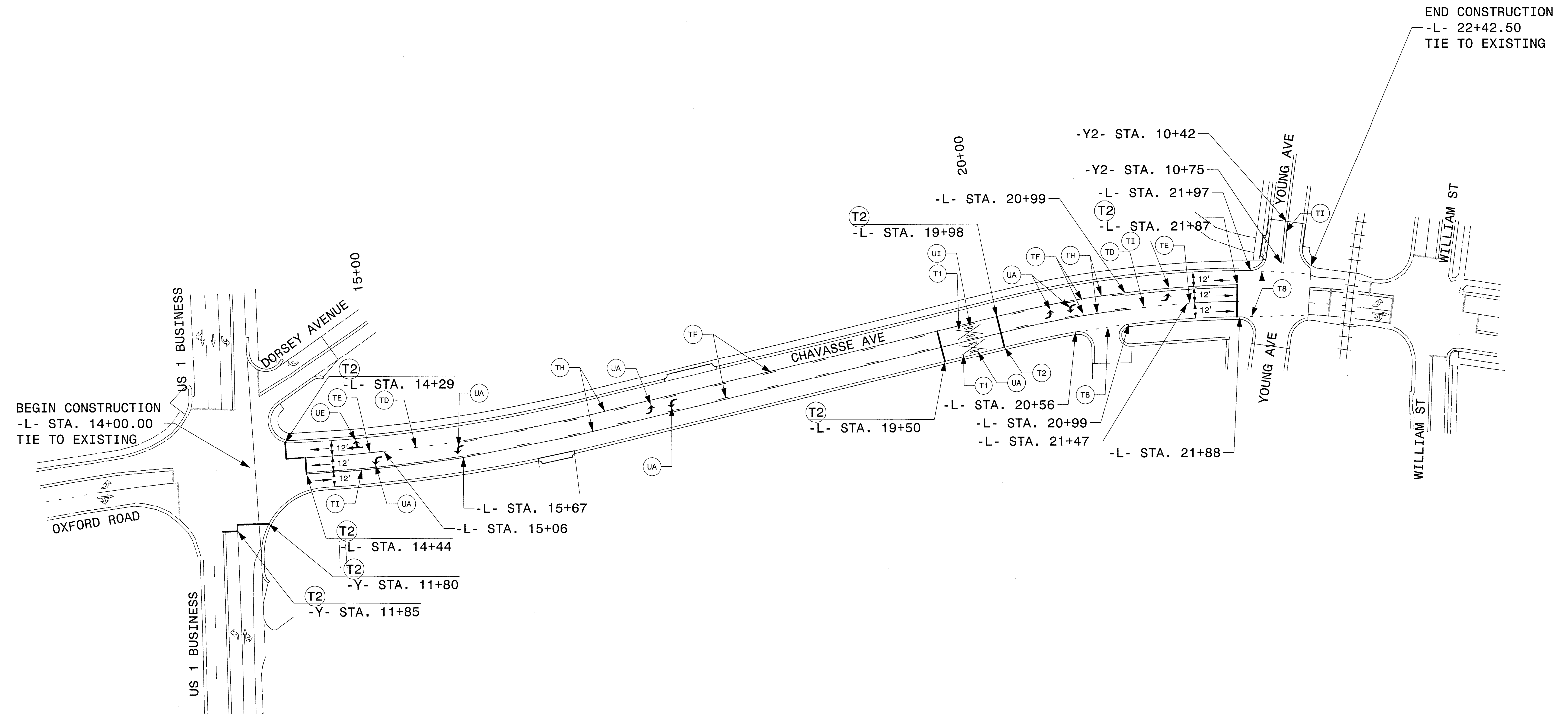
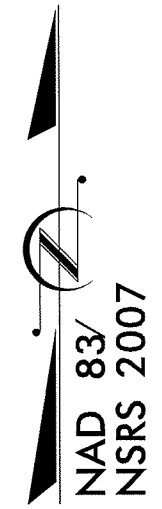
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 SYMBOLS AND WORD MESSAGES

 SYSTEMS *****

 USER *****

APPROVED: *[Signature]*
 DATE: 5-15-14



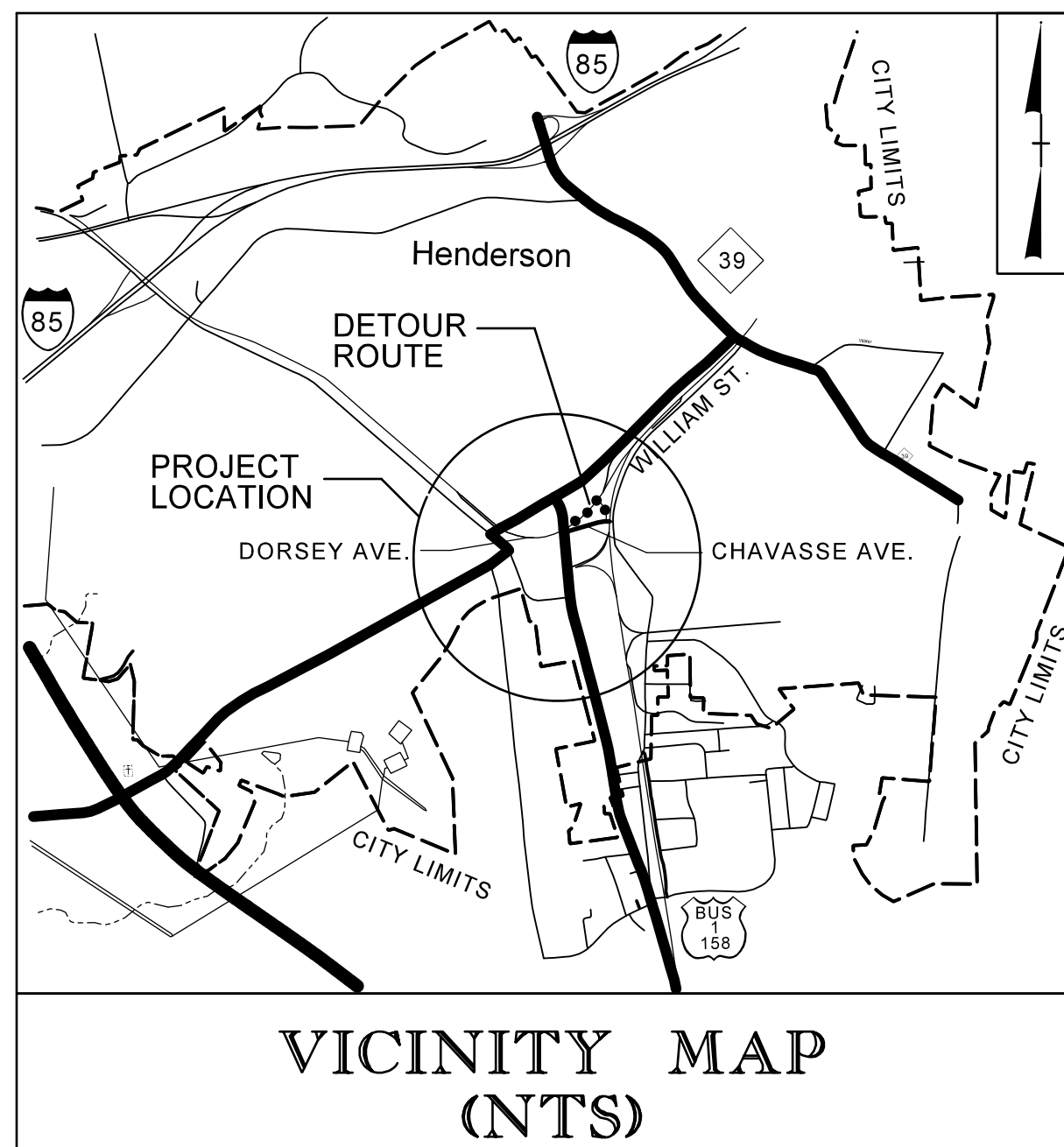
BEGIN CONSTRUCTION
 -L- STA. 14+00.00
 TIE TO EXISTING

END CONSTRUCTION
 -L- 22+42.50
 TIE TO EXISTING



PROPOSED PAVEMENT MARKING DETAIL

TIP PROJECT: 38404

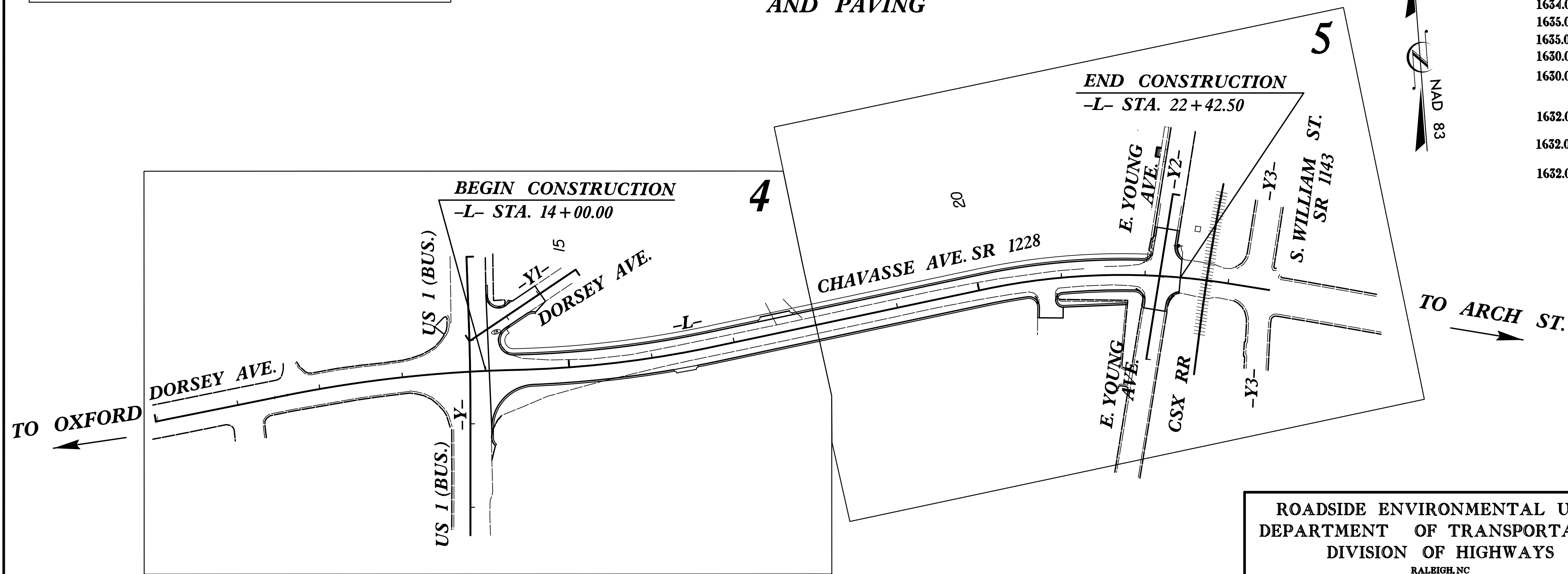


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

VANCE COUNTY

**LOCATION: WIDENING OF SR 1228 (CHAVASSE AVENUE) FROM
US 1 (BUSINESS) TO SR 1143 (S. WILLIAM STREET)**
**TYPE OF WORK: GRADING, DRAINAGE, EROSION CONTROL
AND PAVING**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	38404	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38404	N/A	PE	
38404	N/A	RW & UTIL	
38404	N/A	CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

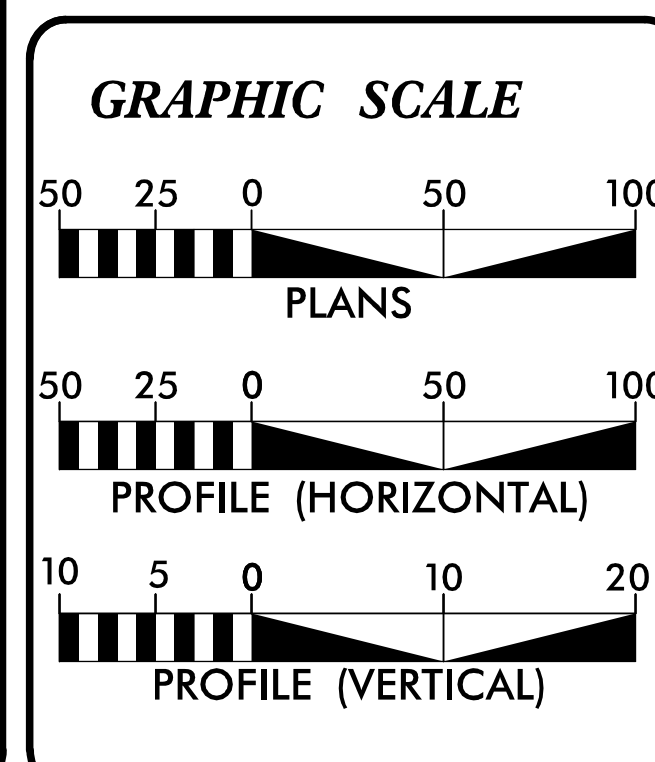
Sed. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WF
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1655.01	Rock Pipe Inlet Sediment Trap Type-A	RPIST-A
1655.02	Rock Pipe Inlet Sediment Trap Type-B	RPIST-B
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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

David S. Webb, PE
LEVEL III NAME

3244
LEVEL III CERTIFICATION NO.

ROADSIDE ENVIRONMENTAL UNIT
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, NC
2012 STANDARD SPECIFICATIONS



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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

Prepared In the Office of:

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

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

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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. 38404	SHEET NO. EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

8/17/99

REVISIONS

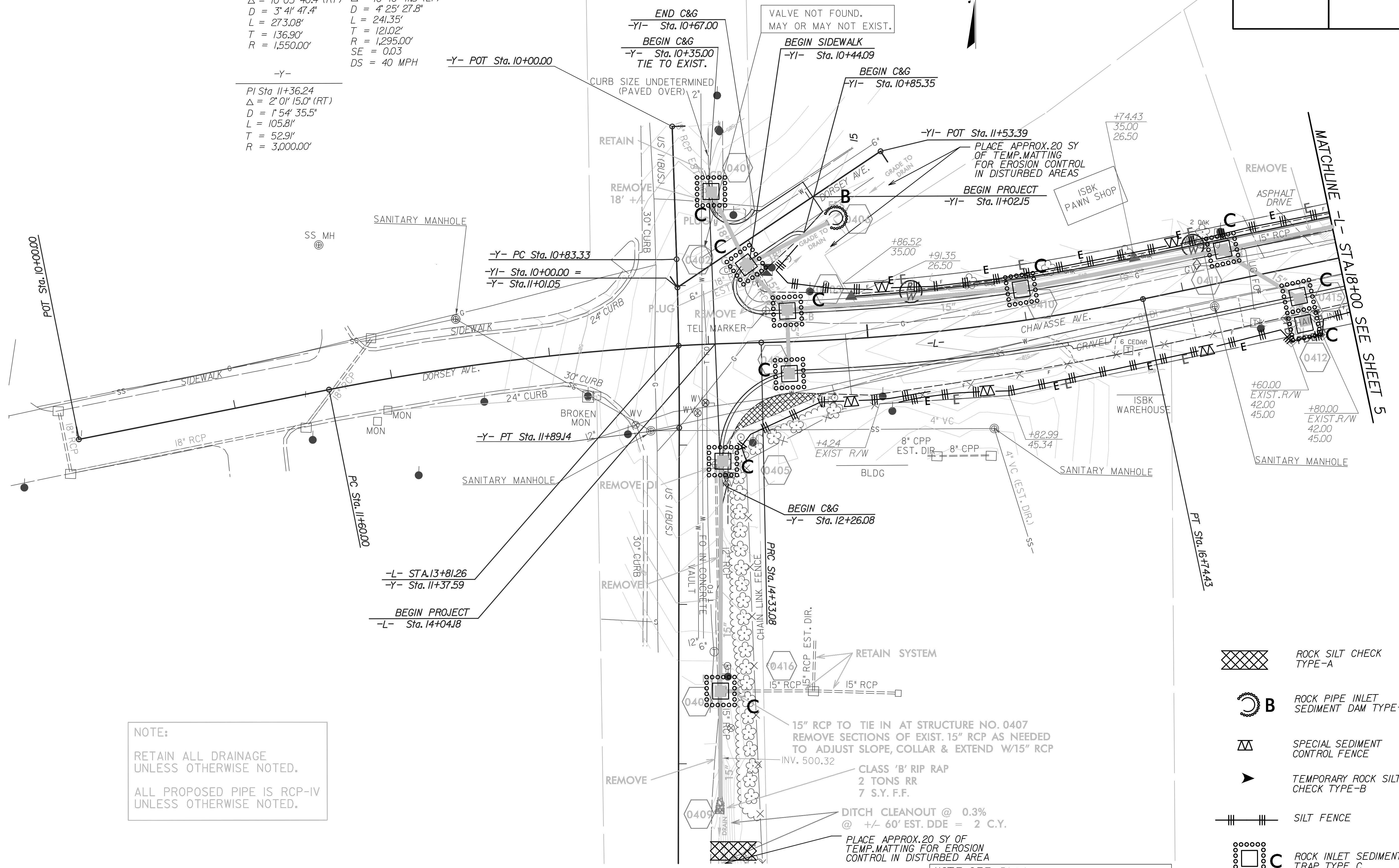
SEPI ENGINEERING & CONSTRUCTION
 1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

PROJECT REFERENCE NO. 38404	SHEET NO. EC-3/CONST.4
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 12+96.90 Δ = 10° 05' 40.4" (RT)
 D = 3' 4" 47.4" L = 273.08'
 T = 136.90' R = 1,550.00'

PI Sta 15+54.11 Δ = 10° 40' 41.5" (LT)
 D = 4' 25" 27.8" L = 241.35'
 T = 121.02' R = 1,295.00'
 SE = 0.03 DS = 40 MPH

-Y-
 PI Sta 11+36.24 Δ = 2° 01' 15.0" (RT)
 D = 1' 54" 35.5" L = 105.81'
 T = 52.91' R = 3,000.00'



NOTE:
 RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED.
 ALL PROPOSED PIPE IS RCP-IV UNLESS OTHERWISE NOTED.

- ROCK SILT CHECK TYPE-A
- ROCK PIPE INLET SEDIMENT DAM TYPE-B
- SPECIAL SEDIMENT CONTROL FENCE
- TEMPORARY ROCK SILT CHECK TYPE-B
- SILT FENCE
- ROCK INLET SEDIMENT TRAP TYPE C

NOTE: SEE PLAN SHEET 6 FOR PROFILE

8/17/99

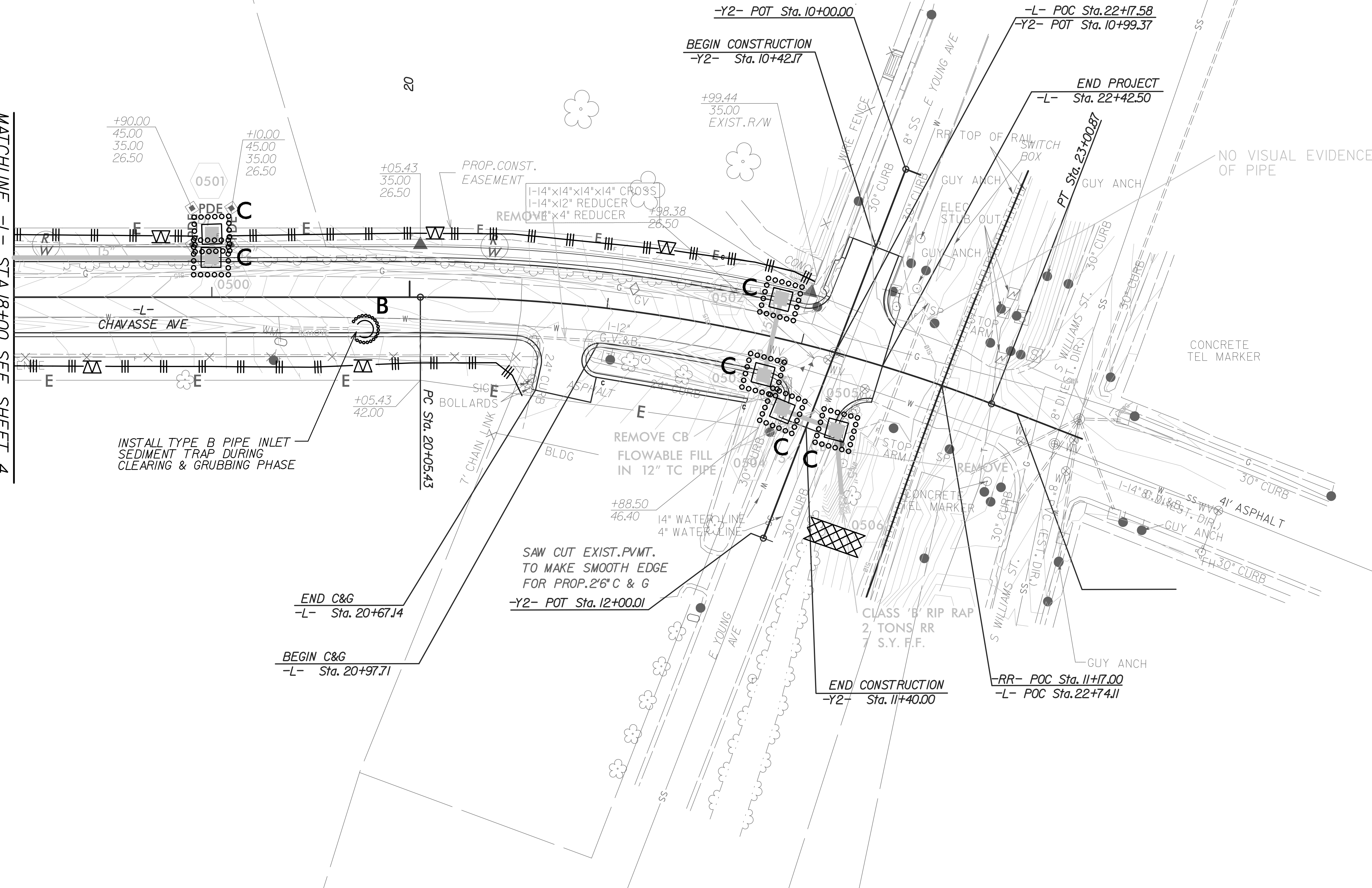
SEPI
ENGINEERING & CONSTRUCTION

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Raleigh, NC 27605
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License: C-2197

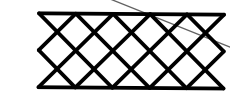
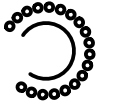


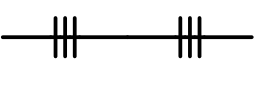
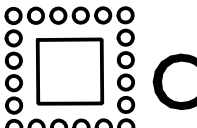
PROJECT REFERENCE NO. 38404	SHEET NO. EC-4/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

MATCHLINE -L- STA. 18+00 SEE SHEET 4



NOTE:
RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED.
ALL PROPOSED PIPE IS RCP-IV UNLESS OTHERWISE NOTED.

-  ROCK SILT CHECK TYPE-A
-  B ROCK PIPE INLET SEDIMENT DAM TYPE-B
-  SPECIAL SEDIMENT CONTROL FENCE
-  TEMPORARY ROCK SILT CHECK TYPE-B
-  SILT FENCE
-  C ROCK INLET SEDIMENT TRAP TYPE C

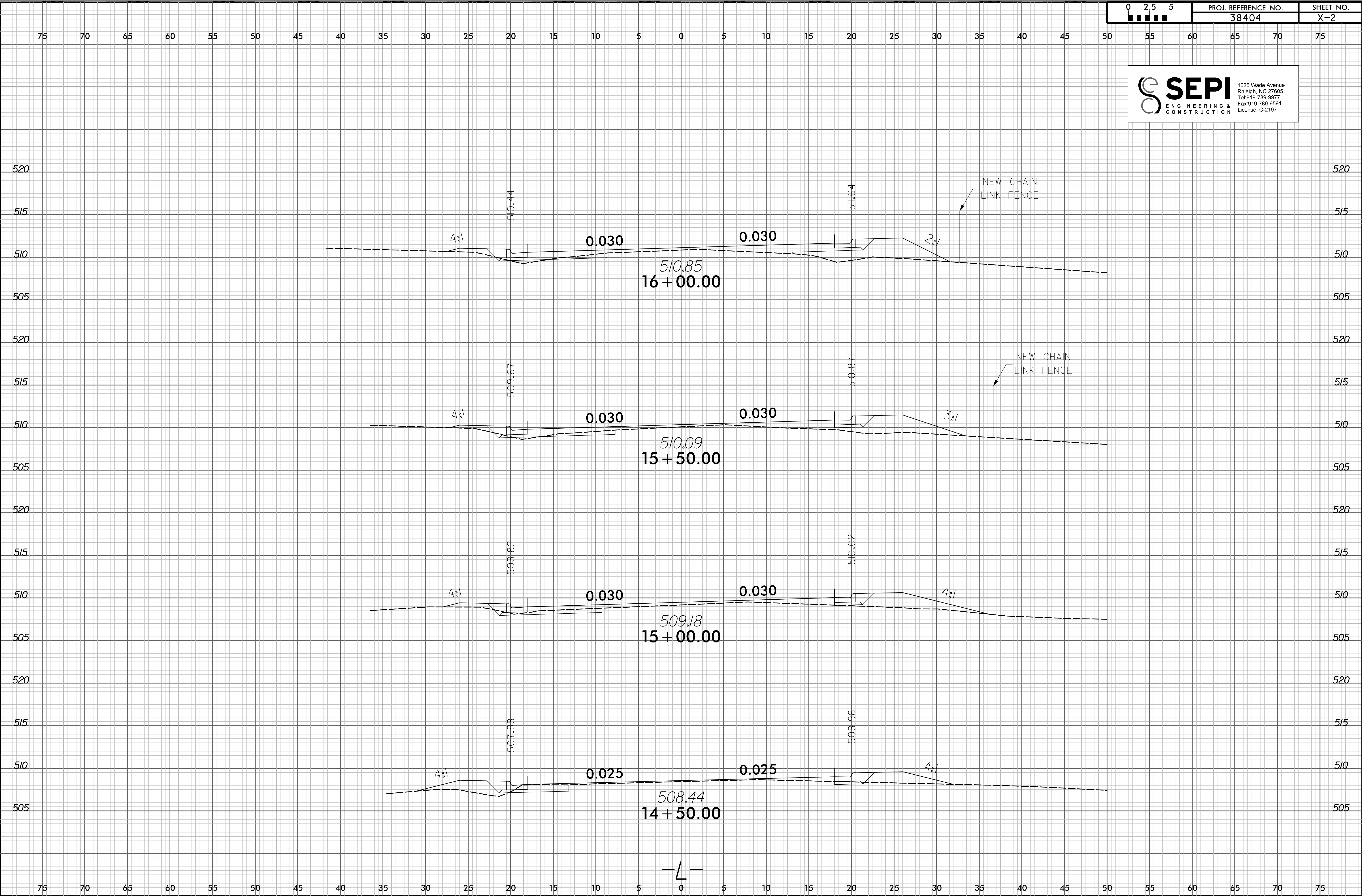
NOTE: SEE PLAN SHEET 6 FOR PROFILE

8/23/99



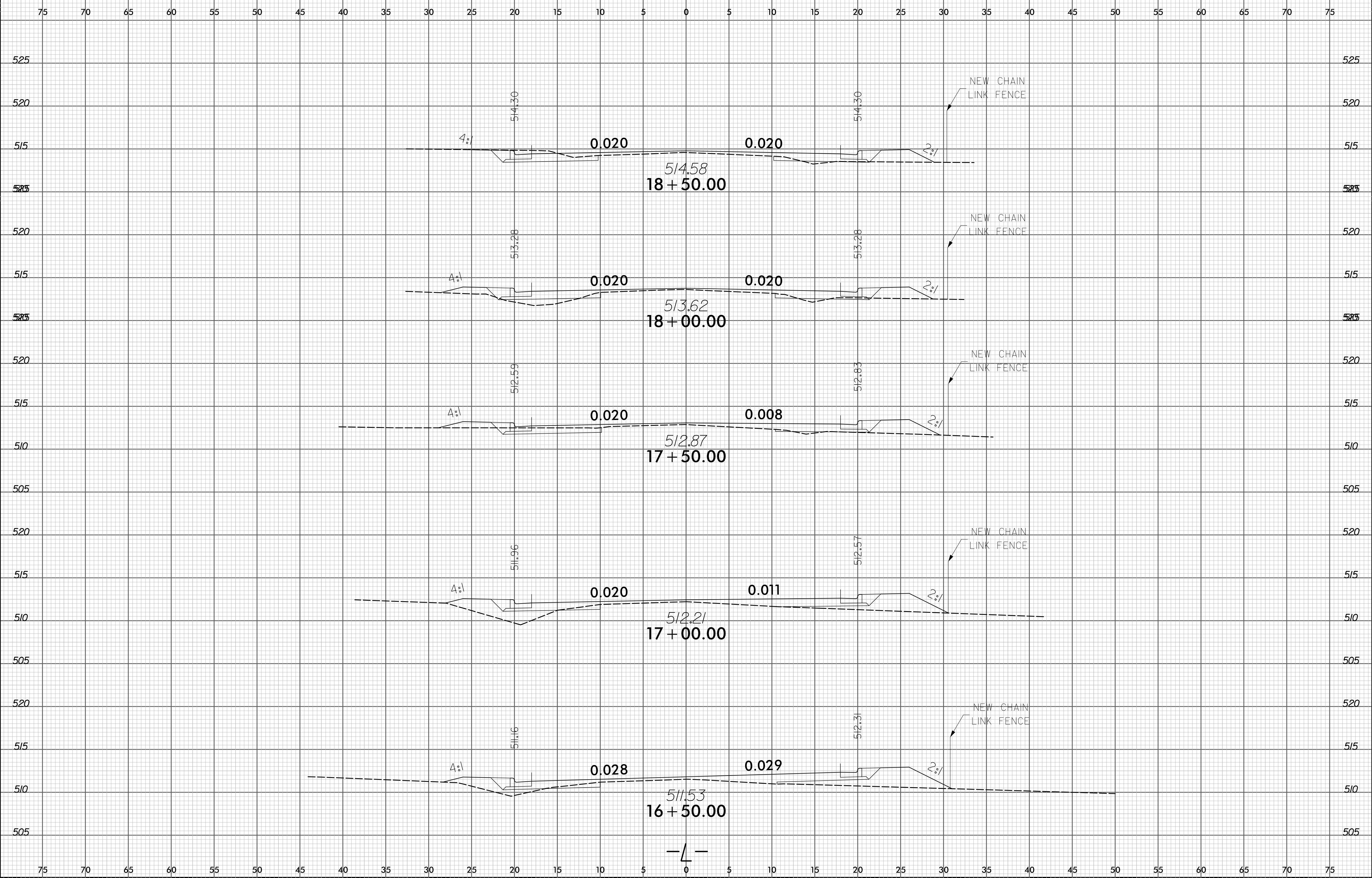
PROJ. REFERENCE NO.
38404

SHEET NO.
X-2



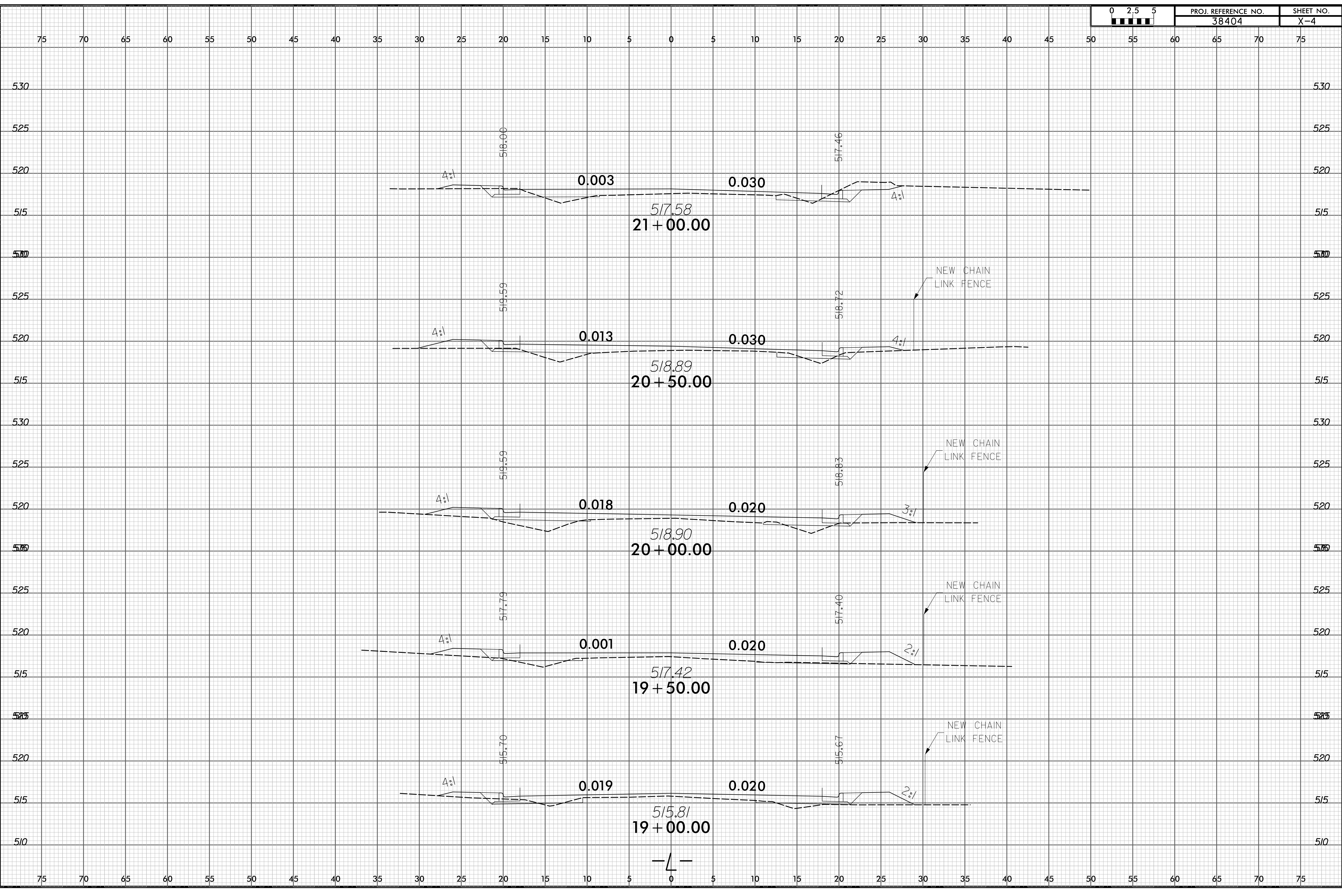
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DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS SHOWN
PROJECT: [illegible]

8/23/99



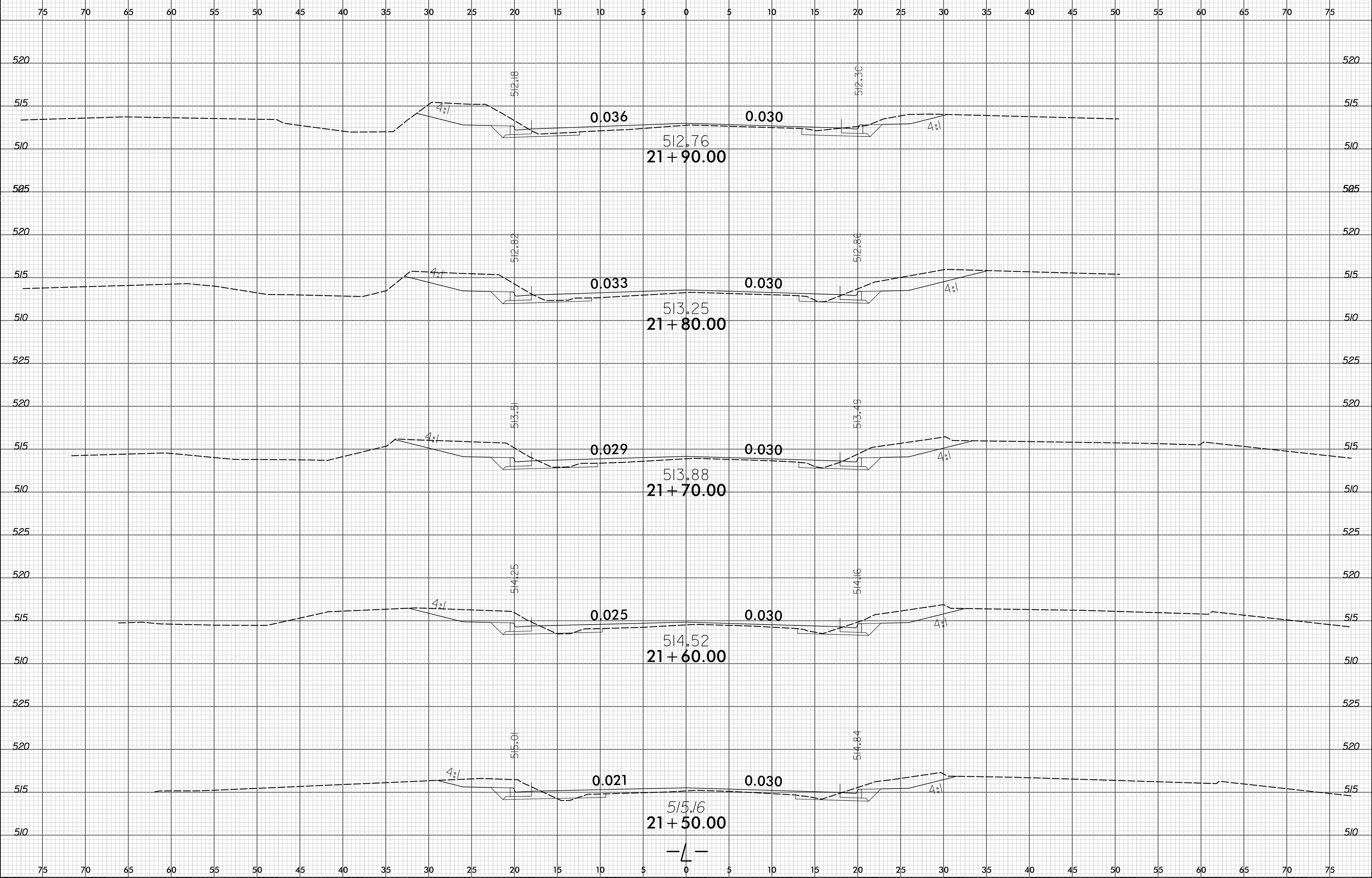
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SCALE: AS SHOWN

8/23/99



8/23/99

8/23/99



DATE: 8/23/99
BY: [illegible]
CHECKED: [illegible]
APPROVED: [illegible]

8/23/99



PROJ. REFERENCE NO.
38404

SHEET NO.
X-6

75

70

65

60

55

50

45

40

35

30

25

20

15

10

5

0

5

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15

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25

30

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40

45

50

55

60

65

70

75

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515

510

505

500

515

510

505

520

515

510

505

520

515

510

505

520

515

510

505

520

515

510

505

507.61
23 + 00.00

510.54
22 + 50.00

512.38
22 + 00.00

511.59

511.57

4%

0.040

0.030

4%

—L—

SYTIME
SHEET
NO. 1
DATE
8/23/99

8/17/99

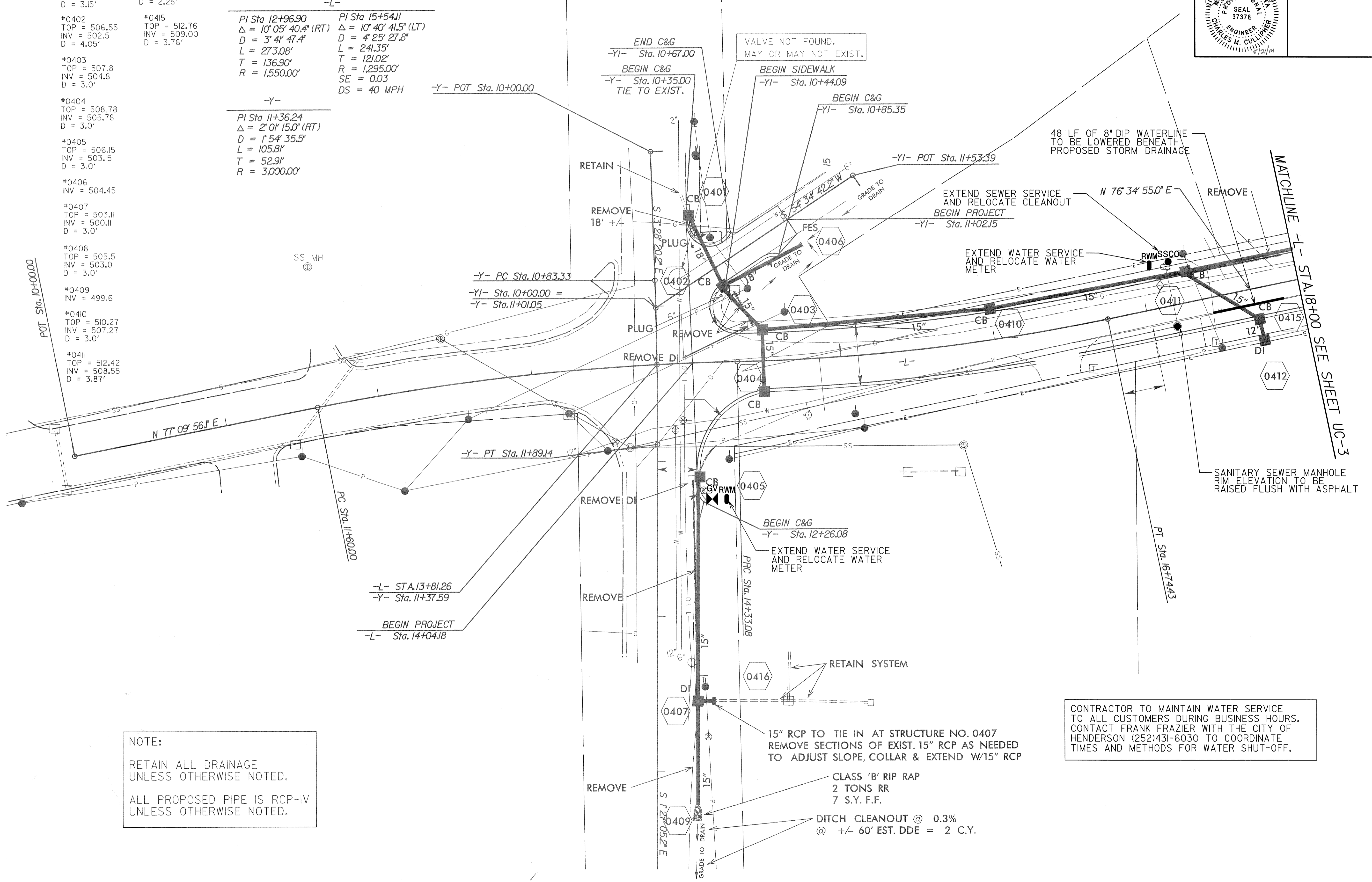
SEPI ENGINEERING & CONSTRUCTION
 1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

PROJECT REFERENCE NO. 38404	SHEET NO. UC-1
RW SHEET NO.	
UTILITY DESIGN ENGINEER	HYDRAULICS ENGINEER

- #0401
TOP = 505.1
INV = 501.95
D = 3.15'
- #0402
TOP = 506.55
INV = 502.5
D = 4.05'
- #0403
TOP = 507.8
INV = 504.8
D = 3.0'
- #0404
TOP = 508.78
INV = 505.78
D = 3.0'
- #0405
TOP = 506.15
INV = 503.15
D = 3.0'
- #0406
INV = 504.45
- #0407
TOP = 503.11
INV = 500.11
D = 3.0'
- #0408
TOP = 505.5
INV = 503.0
D = 3.0'
- #0409
INV = 499.6
- #0410
TOP = 510.27
INV = 507.27
D = 3.0'
- #0411
TOP = 512.42
INV = 508.55
D = 3.87'

-L-
 PI Sta 12+96.90 Δ = 10° 05' 40.4" (RT) D = 3' 4" 47.4" L = 273.08' T = 136.90' R = 1,550.00'
 PI Sta 15+54.11 Δ = 10° 40' 41.5" (LT) D = 4' 25" 27.8" L = 241.35' T = 121.02' R = 1,295.00' SE = 0.03 DS = 40 MPH

-Y-
 PI Sta 11+36.24 Δ = 2° 0' 15.0" (RT) D = 1' 54" 35.5" L = 105.81' T = 52.91' R = 3,000.00'



NOTE:
 RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED.
 ALL PROPOSED PIPE IS RCP-IV UNLESS OTHERWISE NOTED.

CONTRACTOR TO MAINTAIN WATER SERVICE TO ALL CUSTOMERS DURING BUSINESS HOURS. CONTACT FRANK FRAZIER WITH THE CITY OF HENDERSON (252)431-6030 TO COORDINATE TIMES AND METHODS FOR WATER SHUT-OFF.

15" RCP TO TIE IN AT STRUCTURE NO. 0407 REMOVE SECTIONS OF EXIST. 15" RCP AS NEEDED TO ADJUST SLOPE, COLLAR & EXTEND W/15" RCP

CLASS 'B' RIP RAP
 2 TONS RR
 7 S.Y. F.F.

DITCH CLEANOUT @ 0.3%
 @ +/- 60' EST. DDE = 2 C.Y.

REVISIONS

MATCHLINE -L- STA. 18+00 SEE SHEET UC-3

PROJECT REFERENCE NO. 38404	SHEET NO. UC-2
RW SHEET NO.	
UTILITY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEPI
ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

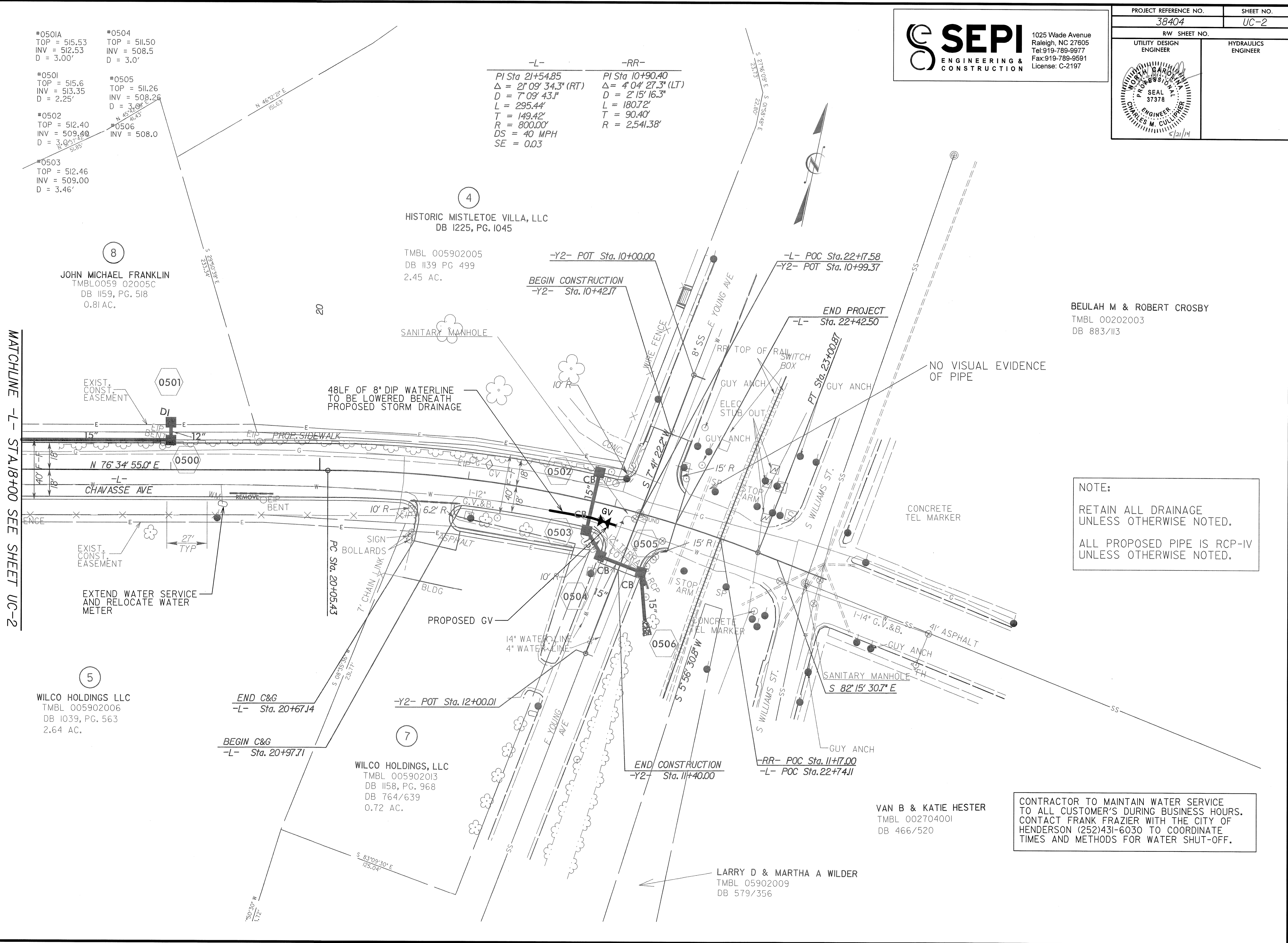
- #0501A
TOP = 515.53
INV = 512.53
D = 3.00'
- #0501
TOP = 515.6
INV = 513.35
D = 2.25'
- #0502
TOP = 512.40
INV = 509.40
D = 3.00'
- #0503
TOP = 512.46
INV = 509.00
D = 3.46'
- #0504
TOP = 511.50
INV = 508.5
D = 3.0'
- #0505
TOP = 511.26
INV = 508.26
D = 3.00'
- #0506
TOP = 508.0
INV = 508.0
D = 0.0'

-L- -RR-
 PI Sta 21+54.85 PI Sta 10+90.40
 $\Delta = 21^{\circ} 09' 34.3''$ (RT) $\Delta = 4^{\circ} 04' 27.3''$ (LT)
 D = 7' 09' 43.1" D = 2' 15' 16.3"
 L = 295.44' L = 180.72'
 T = 149.42' T = 90.40'
 R = 800.00' R = 2,541.38'
 DS = 40 MPH
 SE = 0.03

MATCHLINE -L- STA. 18+00 SEE SHEET UC-2

REVISIONS

8/17/19



BEULAH M & ROBERT CROSBY
 TMBL 00202003
 DB 883/113

NOTE:
 RETAIN ALL DRAINAGE UNLESS OTHERWISE NOTED.
 ALL PROPOSED PIPE IS RCP-IV UNLESS OTHERWISE NOTED.

CONTRACTOR TO MAINTAIN WATER SERVICE TO ALL CUSTOMER'S DURING BUSINESS HOURS. CONTACT FRANK FRAZIER WITH THE CITY OF HENDERSON (252)431-6030 TO COORDINATE TIMES AND METHODS FOR WATER SHUT-OFF.

VAN B & KATIE HESTER
 TMBL 002704001
 DB 466/520

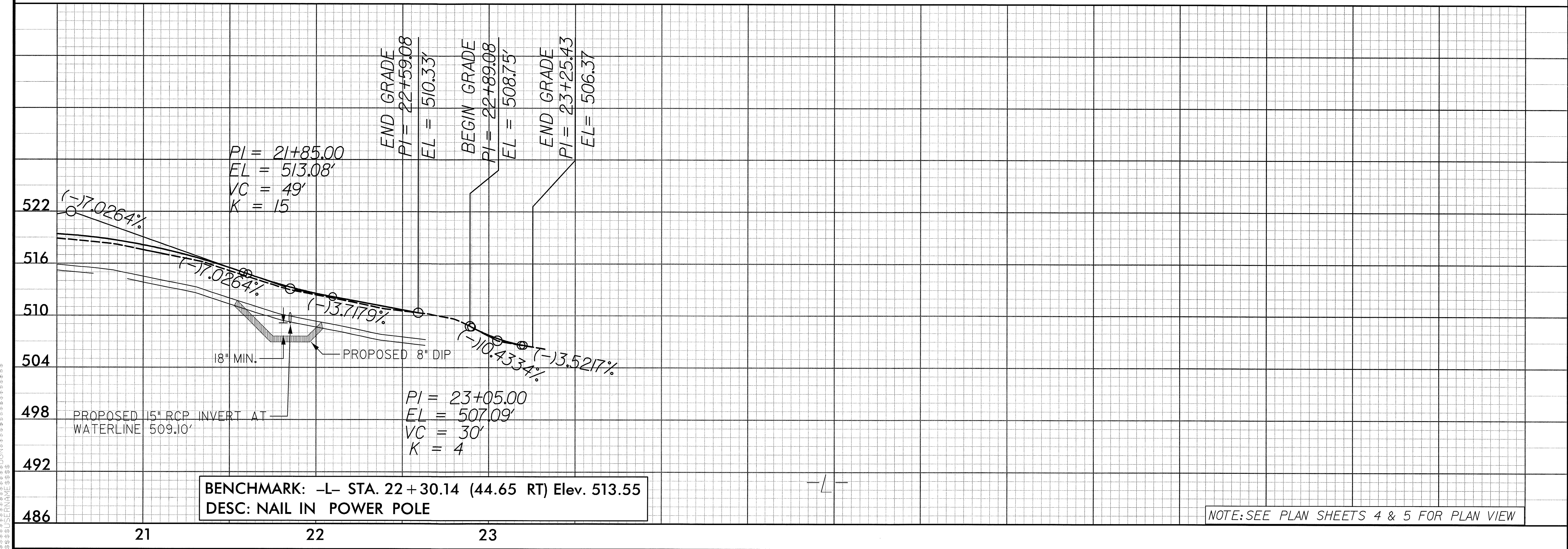
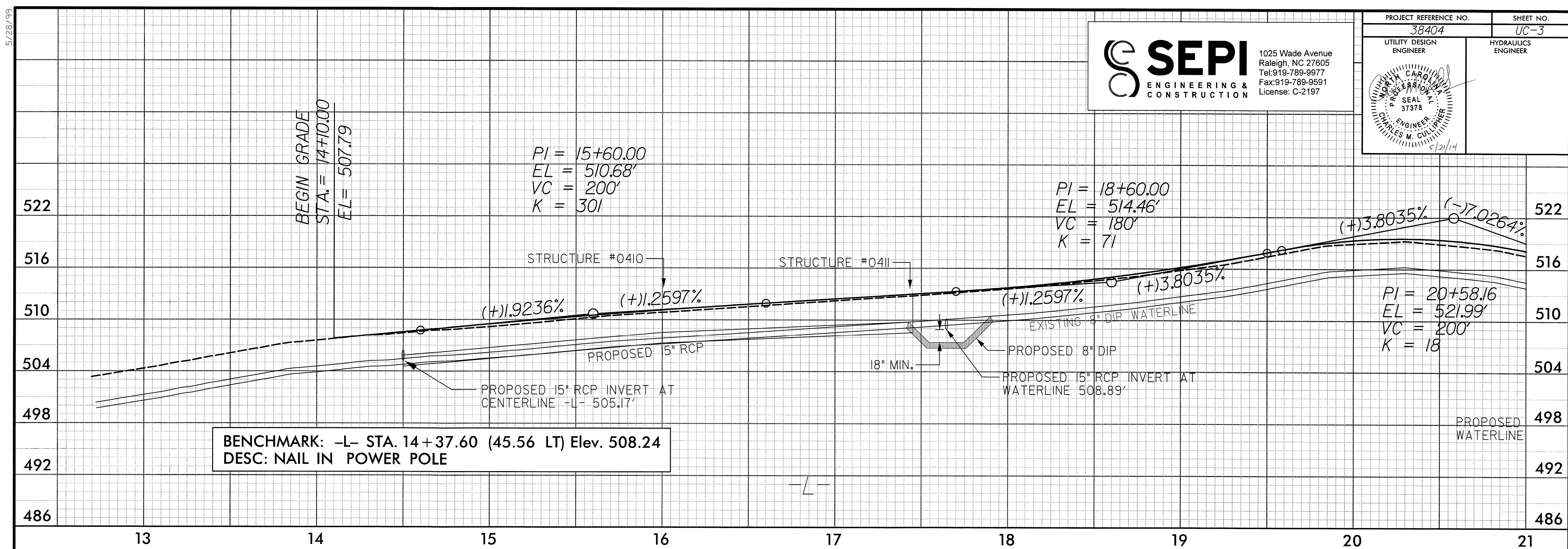
LARRY D & MARTHA A WILDER
 TMBL 05902009
 DB 579/356

8
 JOHN MICHAEL FRANKLIN
 TMBL 0059 02005C
 DB 1159, PG. 518
 0.81 AC.

4
 HISTORIC MISTLETOE VILLA, LLC
 DB 1225, PG. 1045
 TMBL 005902005
 DB 1139 PG 499
 2.45 AC.

5
 WILCO HOLDINGS LLC
 TMBL 005902006
 DB 1039, PG. 563
 2.64 AC.

7
 WILCO HOLDINGS, LLC
 TMBL 005902013
 DB 1158, PG. 968
 DB 764/639
 0.72 AC.



NOTE: SEE PLAN SHEETS 4 & 5 FOR PLAN VIEW

5/28/99
 DATE: 5/28/99
 TIME: 10:00 AM
 DRAWN BY: JMM
 CHECKED BY: JMM
 APPROVED BY: JMM
 PROJECT: 38404 UC-3

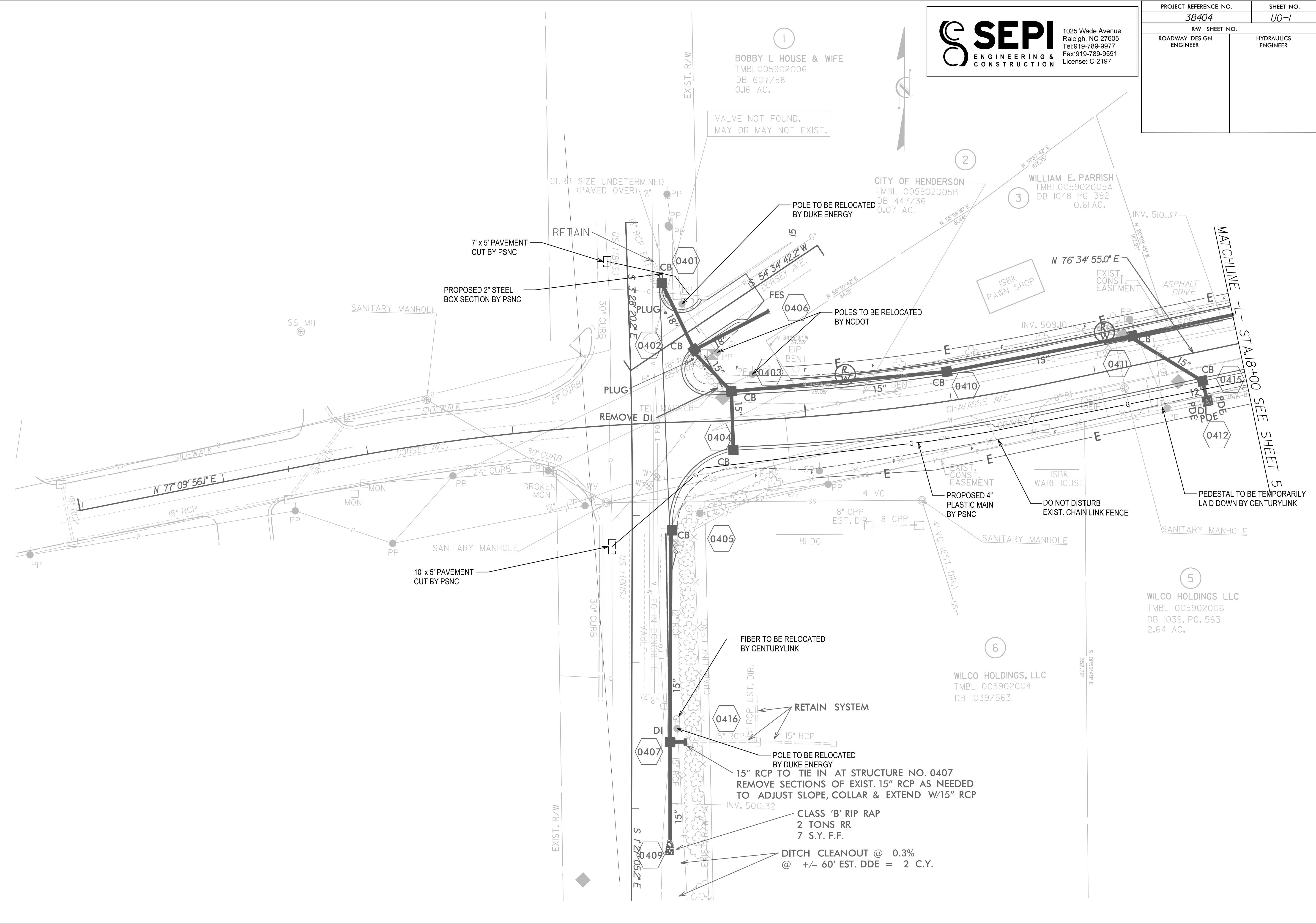
8/17/99

REVISIONS



1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

PROJECT REFERENCE NO. 38404	SHEET NO. U0-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BOBBY L HOUSE & WIFE
TMBL005902006
DB 607/58
0.16 AC.

CITY OF HENDERSON
TMBL 005902005B
DB 447/36
0.07 AC.

WILLIAM E. PARRISH
TMBL005902005A
DB 1048 PG 392
0.61 AC.

WILCO HOLDINGS LLC
TMBL 005902006
DB 1039, PG. 563
2.64 AC.

WILCO HOLDINGS, LLC
TMBL 005902004
DB 1039/563

VALVE NOT FOUND.
MAY OR MAY NOT EXIST.

POLE TO BE RELOCATED
BY DUKE ENERGY

POLES TO BE RELOCATED
BY NCDOT

FIBER TO BE RELOCATED
BY CENTURYLINK

RETAIN SYSTEM

POLE TO BE RELOCATED
BY DUKE ENERGY
15" RCP TO TIE IN AT STRUCTURE NO. 0407
REMOVE SECTIONS OF EXIST. 15" RCP AS NEEDED
TO ADJUST SLOPE, COLLAR & EXTEND W/15" RCP

CLASS 'B' RIP RAP
2 TONS RR
7 S.Y. F.F.

DITCH CLEANOUT @ 0.3%
@ +/- 60' EST. DDE = 2 C.Y.

7' x 5' PAVEMENT
CUT BY PSNC

PROPOSED 2" STEEL
BOX SECTION BY PSNC

10' x 5' PAVEMENT
CUT BY PSNC

MATCHLINE - STA. 18+00
SEE SHEET 5

DO NOT DISTURB
EXIST. CHAIN LINK FENCE

PEDESTAL TO BE TEMPORARILY
LAID DOWN BY CENTURYLINK

PROPOSED 4" PLASTIC MAIN
BY PSNC

SANITARY MANHOLE

ISBK WAREHOUSE

ISBK PAWN SHOP

INV. 510.37

INV. 509.10

INV. 500.32

S 01°59'49"E
352.17'

N 76°34'55.0" E

N 55°30'42" E
14.20'

N 55°58'19" E
91.44'

N 55°38'19" E
91.44'

N 57°37'42" E
107.35'

N 20°00'30" W
141.18'

N 20°00'30" W
141.18'

N 20°00'30" W
141.18'

N 20°00'30" W
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N 20°00'30" W
141.18'

8/17/09

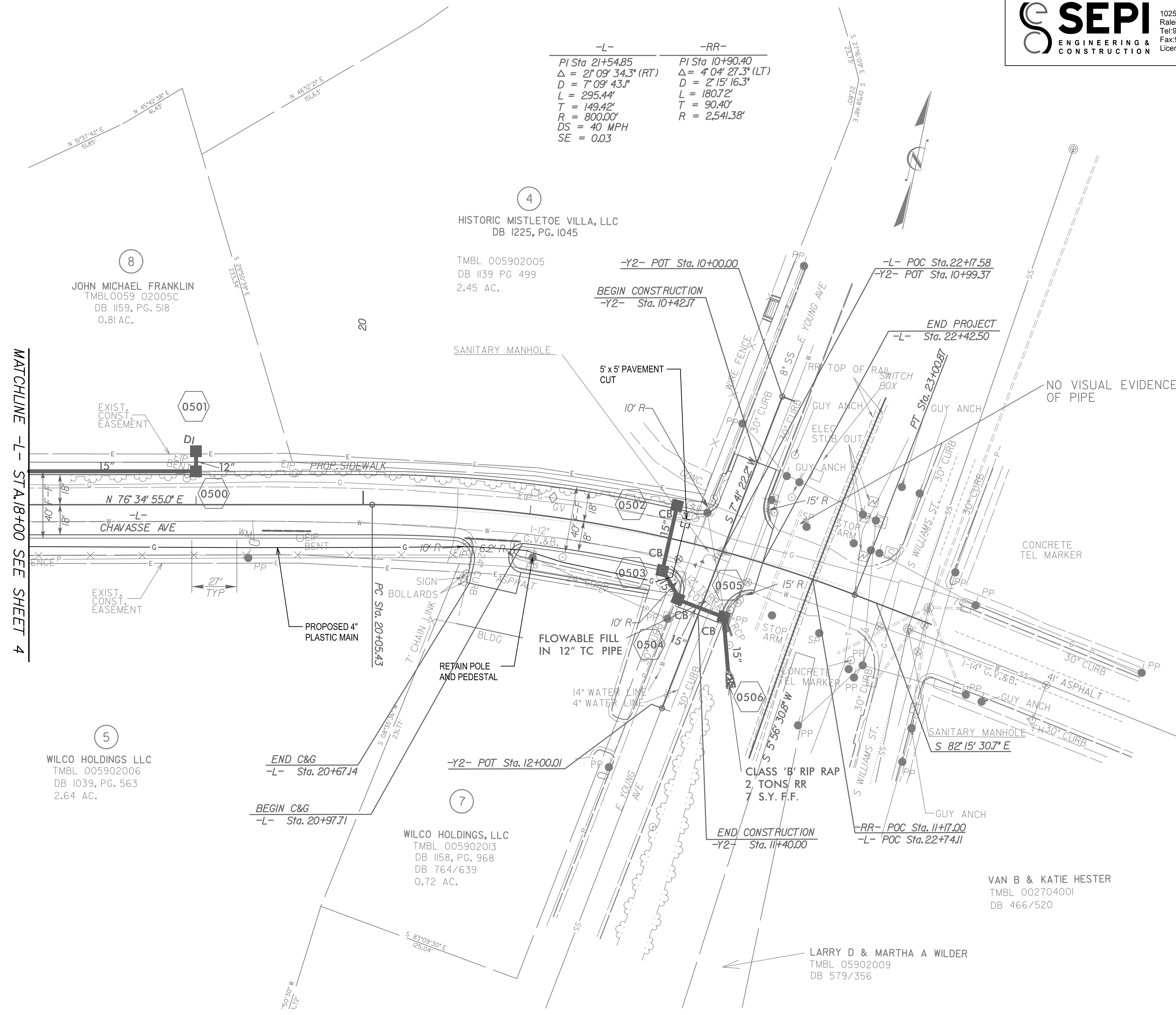
REVISIONS

SEPI
ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

PROJECT REFERENCE NO. 38404	SHEET NO. U0-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-	-RR-
PI Sta 21+54.85	PI Sta 10+90.40
$\Delta = 2^\circ 09' 34.3''$ (RT)	$\Delta = 4^\circ 04' 27.3''$ (LT)
D = 7' 09' 43.1"	D = 2' 15' 16.3"
L = 295.44'	L = 180.72'
T = 149.42'	T = 90.40'
R = 800.00'	R = 2,541.38'
DS = 40 MPH	
SE = 0.03	



MATCHLINE -L- STA. 18+00 SEE SHEET 4

8
JOHN MICHAEL FRANKLIN
TMBL0059 02005C
DB 1159, PG. 518
0.81 AC.

4
HISTORIC MISTLETOE VILLA, LLC
DB 1225, PG. 1045

TMBL 005902005
DB 1139 PG 499
2.45 AC.

BEULAH M & ROBERT CROSBY
TMBL 00202003
DB 883/113

5
WILCO HOLDINGS LLC
TMBL 005902006
DB 1039, PG. 563
2.64 AC.

7
WILCO HOLDINGS, LLC
TMBL 005902013
DB 1158, PG. 968
DB 764/639
0.72 AC.

VAN B & KATIE HESTER
TMBL 002704001
DB 466/520

LARRY D & MARTHA A WILDER
TMBL 05902009
DB 579/356

NOTE:
RETAIN ALL DRAINAGE
UNLESS OTHERWISE NOTED.
ALL PROPOSED PIPE IS RCP-IV
UNLESS OTHERWISE NOTED.