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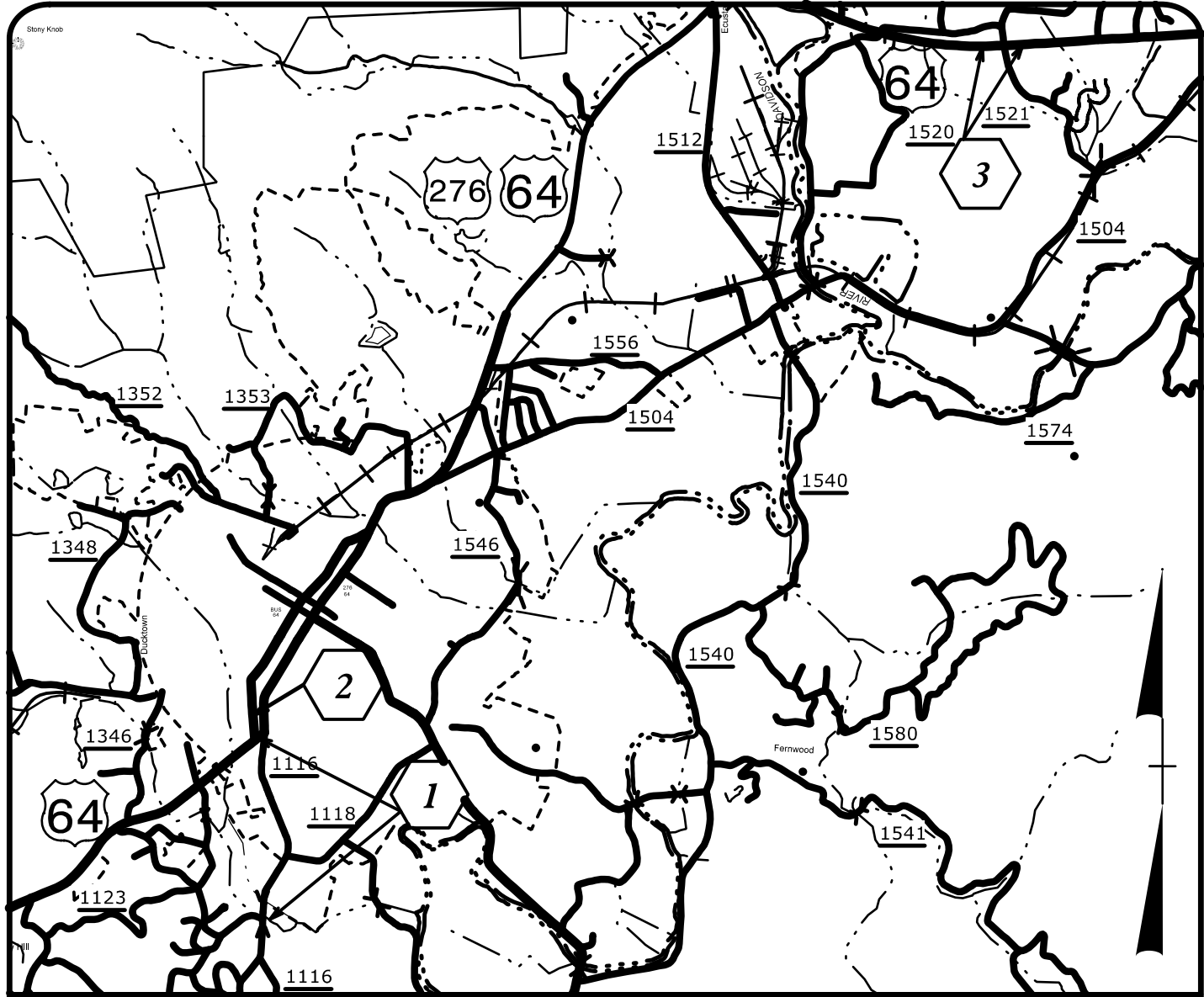
09/08/99

3/30/2021
C:\Users\smelvin\Documents\Projects\Division 14 combined\47850_Rdy_tsh.dgn
User:smelvin

PROJECT: 47850, U-510, 44883

CONTRACT: DN00751

See Sheet 1A For Index of Sheets



VICINITY MAP

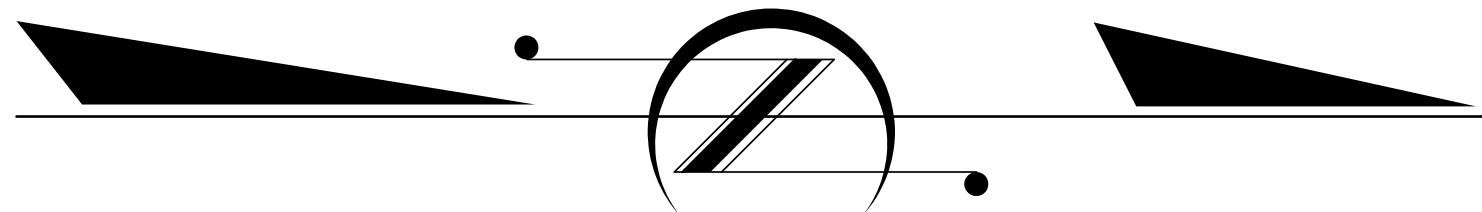
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSYLVANIA COUNTY

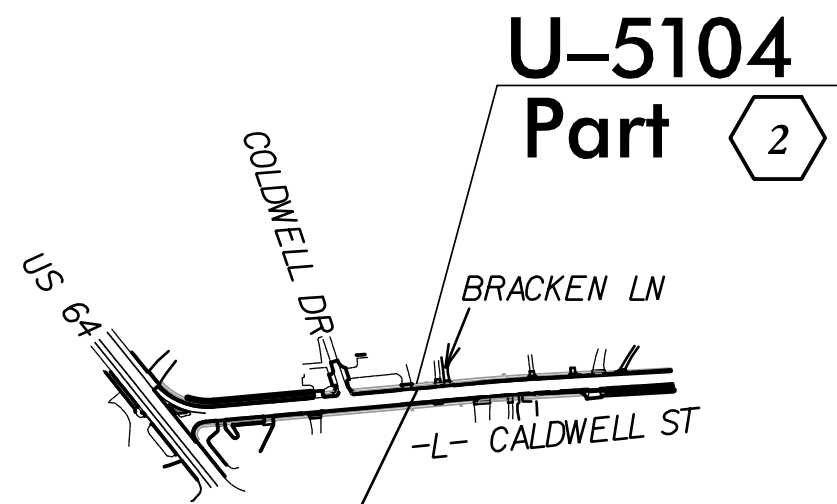
LOCATION: 47850: NORTH COUNTY CLUB RD (SR 1116) BETWEEN WOODLAND TERRACE AND US 64
U-5104: CALDWELL ST SOUTH OF BRACKEN LN
44883: ALONG US 64 FROM WEST OF BREVARD ACADEMY TO 300' EAST OF
GLADE CREEK RD (SR 1521)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, MILLING, RESURFACING, SIDEWALK,
SIGNALS, WALLS, AND PAVING MARKINGS

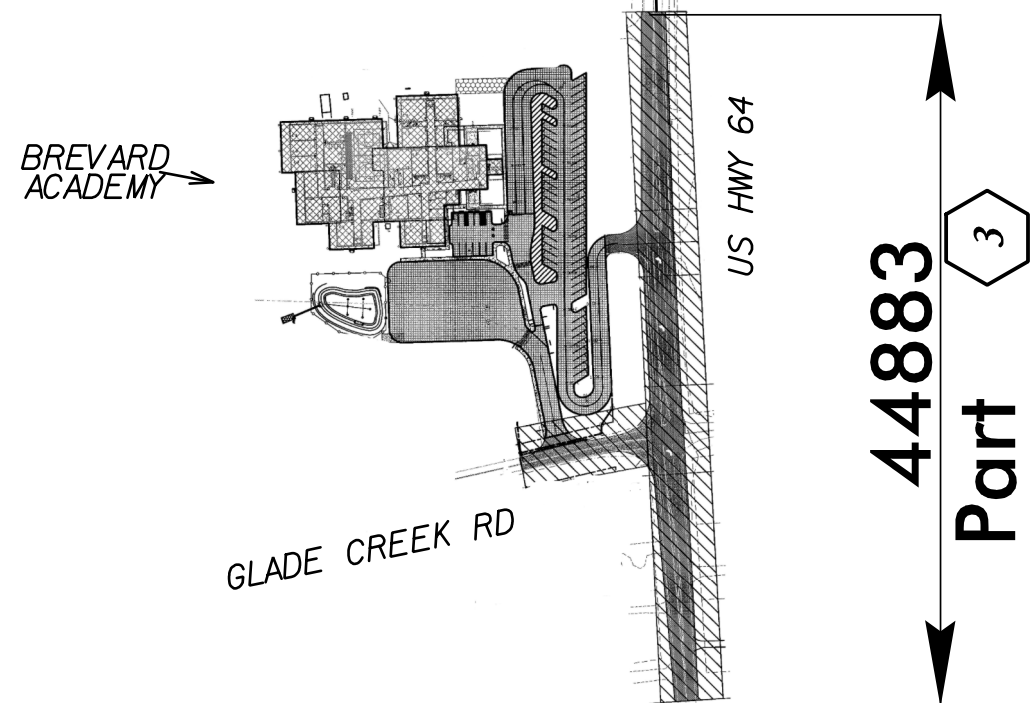
STATE	STATE PROJECT REFERENCE NO.	NO.	TOTAL SHEETS
N.C.	47850, U-5104, 44883	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47850		CONST.	
44910.3.11	TAP-1420(010)	CONST.	
41902.1.1	STP-064B(3)	PE	
41902.2.1	STP-064(3)	RW/UTIL.	
41902.3.FR1	STP-064B(3)	CONST.	
44883			



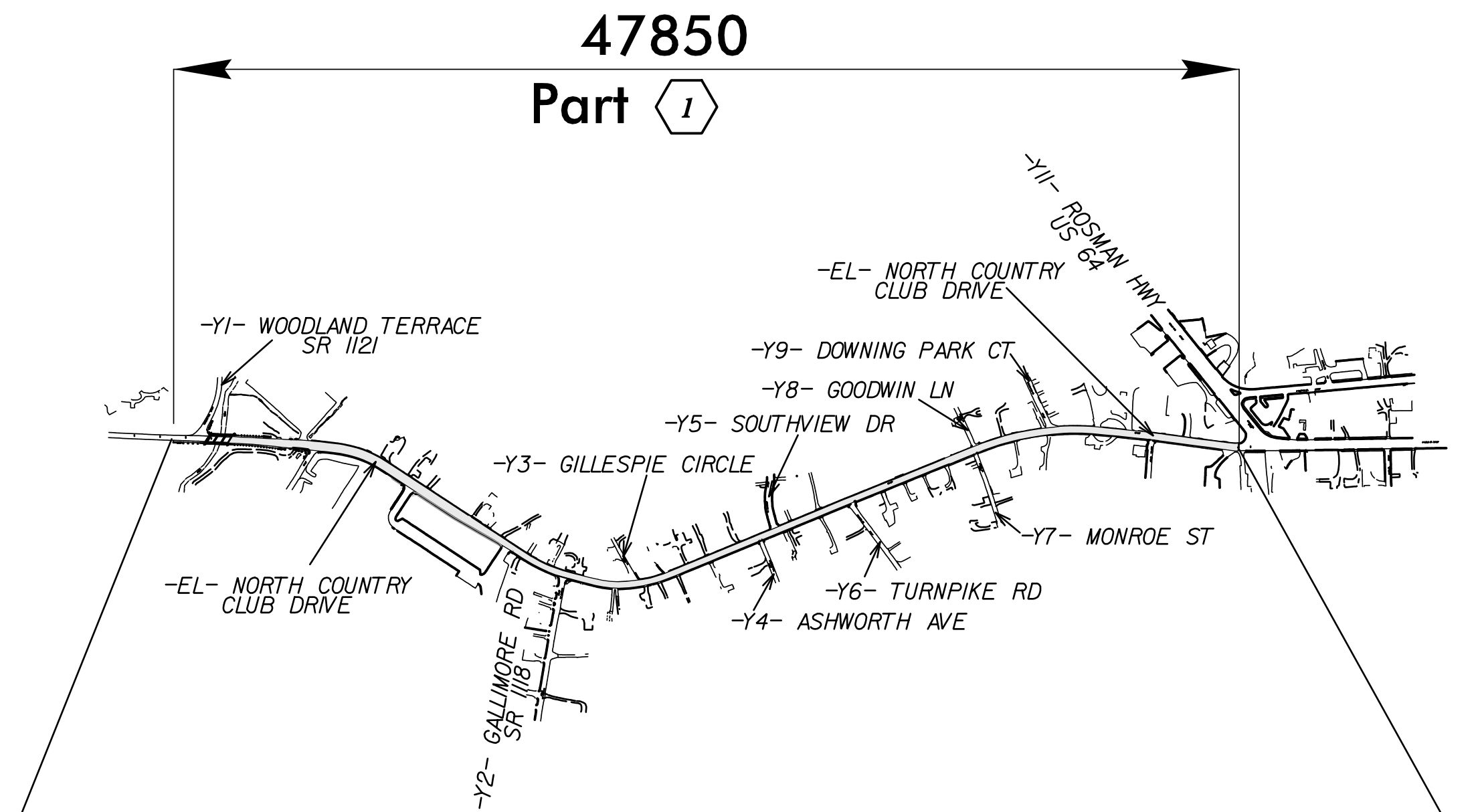
BEGIN PROJECT 44883
-L- STA. 0 + 00.00



LOCATION OF PROJECT U-5104
-L- STA. 15 + 70



END PROJECT 44883
-L- STA. 9 + 40.00



BEGIN PROJECT 47850
-EL- STA. 12 + 46.43

END PROJECT 47850
-EL- STA. 56 + 50.00

GRAPHIC SCALES



PROJECT LENGTH

LENGTH ROADWAY PROJECT 47850	=	0.834 MILES
TOTAL LENGTH PROJECT 47850	=	0.834 MILES
LENGTH ROADWAY PROJECT U-5104	=	0.000 MILES
TOTAL LENGTH PROJECT U-5104	=	0.000 MILES
LENGTH ROADWAY PROJECT 44883	=	0.178 MILES
TOTAL LENGTH PROJECT 44883	=	0.178 MILES

NCDOT CONTACT: SEE INDIVIDUAL PLANS

PLANS PREPARED BY:	PLANS PREPARED FOR:
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 14 252 Webster Rd Sylva, NC 28779

RIGHT OF WAY DATE:
SEE INDIVIDUAL PLANS
PROJECT ENGINEER

LETTING DATE:
MAY 25, 2021
SEE INDIVIDUAL PLANS
PROJECT DESIGN ENGINEER

2018 STANDARD SPECIFICATIONS

HYDRAULICS ENGINEER

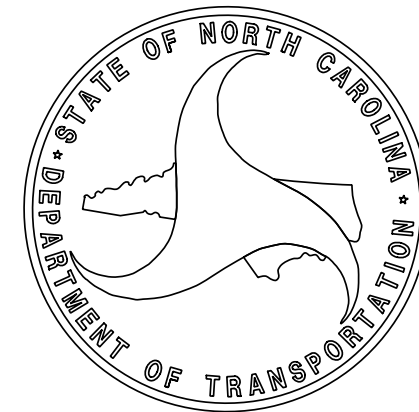
SEE INDIVIDUAL PLANS

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SEE INDIVIDUAL PLANS

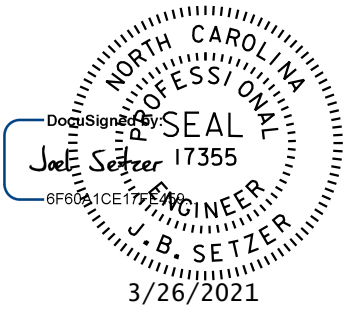
SIGNATURE: P.E.



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT: DN00751



PROJECT REFERENCE NO.	SHEET NO.
U-5104	1A
ROADWAY DESIGN ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX OF SHEETS

SHEET NUMBER

SHEET

1

TITLE SHEET

1A

INDEX OF SHEETS

1B

CONVENTIONAL SYMBOLS

4

PLAN SHEET

2018 ROADWAY ENGLISH STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH -
N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY, 2018 ARE APPLICABLE TO THIS PROJECT
AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.

TITLE

- DIVISION 3 - PIPE CULVERTS
- 300.01 METHOD OF PIPE INSTALLATION
- DIVISION 6 - ASPHALT BASES AND PAVEMENTS
- 654.01 PAVEMENT REPAIRS
- DIVISION 8 - INCIDENTALS
- 840.02 CONCRETE CATCH BASIN - 12" THRU 54" PIPE
- 840.03 FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
- 840.72 PIPE COLLAR
- 846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER
- DIVISION 11 - WORK ZONE TRAFFIC CONTROL
- 1101.01 WORK ZONE ADVANCE WARNING SIGNS
- 1101.02 TEMPORARY LANE CLOSURES
- 1101.04 TEMPORARY SHOULDER CLOSURES

04/16/11

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-5/04	I-B

CONVENTIONAL PLAN SHEET SYMBOLS

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:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

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:

Standard Gauge	
RR Signal Milepost	
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	
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:

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:	
Single Tree	
Single Shrub	
Hedge	
Woods Line	

Orchard	
Vineyard	

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:

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:

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:

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:

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

SANITARY SEWER:

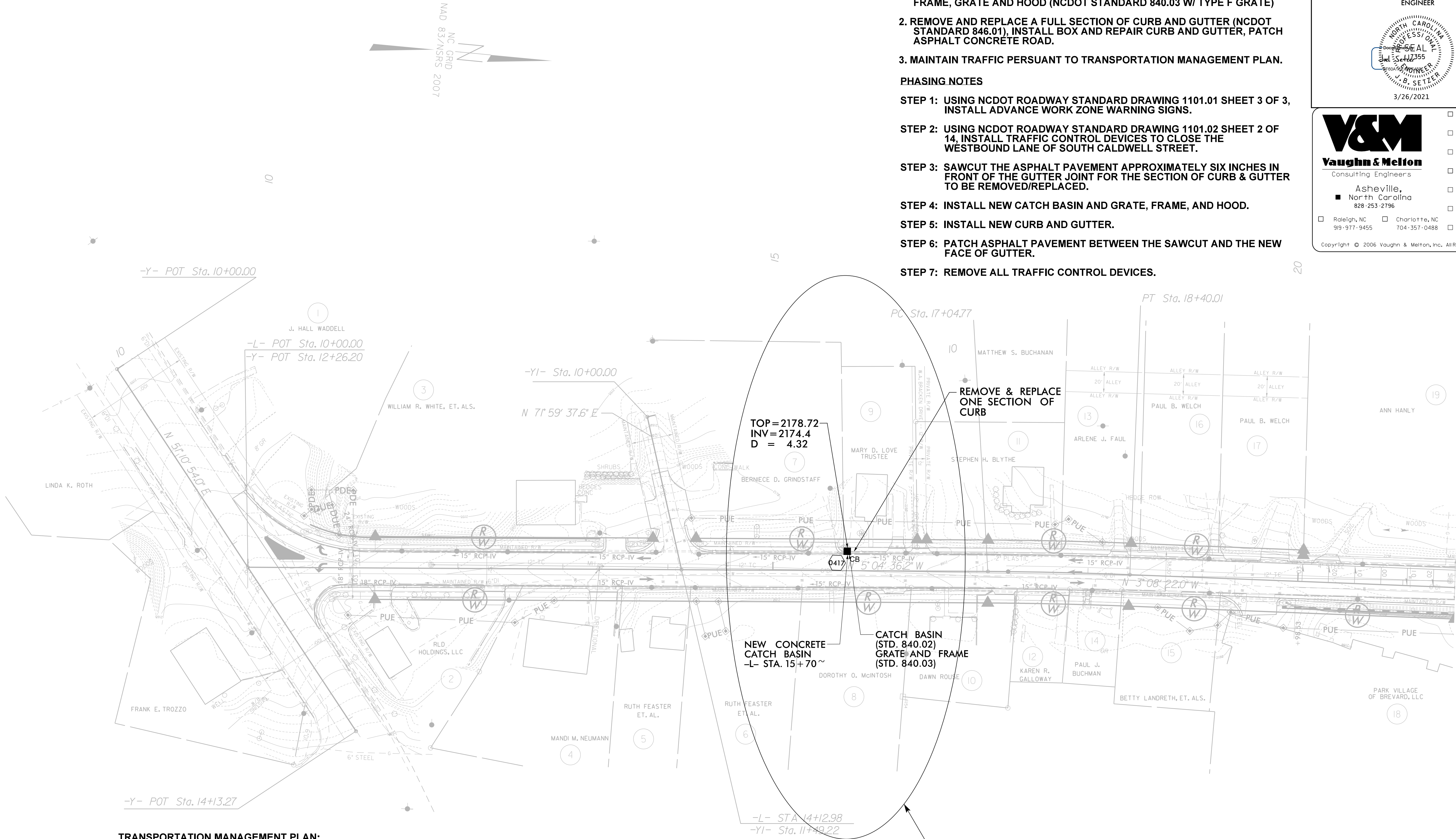
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
Recorded SS Forced Main Line	
Designated SS Forced Main Line (S.U.E.*)	

MISCELLANEOUS:

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	

REVISIONS

8/17/99
8/25/2021 11:22:54 AM
\\nas01\projects\station\031732-16 S Caldwell St Drainage\Design\CADD\5104_rdy.psh04 REV.dgn
User:draydort



TRANSPORTATION MANAGEMENT PLAN:

MANAGEMENT STRATEGIES:

DRIVEWAY ACCESS WITHIN PROJECT LIMITS WILL BE MAINTAINED.

LANE AND SHOULDER CLOSURE REQUIREMENTS:

1. 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.
2. 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.
3. 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.
4. 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.

SCOPE OF WORK:

1. CONSTRUCT CONCRETE CATCH BASIN (NCDOT STANDARD 840.02) WITH FRAME, GRATE AND HOOD (NCDOT STANDARD 840.03 W/ TYPE F GRATE)
2. REMOVE AND REPLACE A FULL SECTION OF CURB AND GUTTER (NCDOT STANDARD 846.01), INSTALL BOX AND REPAIR CURB AND GUTTER, PATCH ASPHALT CONCRETE ROAD.
3. MAINTAIN TRAFFIC PERSUANT TO TRANSPORTATION MANAGEMENT PLAN.

PHASING NOTES

- STEP 1: USING NCDOT ROADWAY STANDARD DRAWING 1101.01 SHEET 3 OF 3, INSTALL ADVANCE WORK ZONE WARNING SIGNS.
- STEP 2: USING NCDOT ROADWAY STANDARD DRAWING 1101.02 SHEET 2 OF 14, INSTALL TRAFFIC CONTROL DEVICES TO CLOSE THE WESTBOUND LANE OF SOUTH CALDWELL STREET.
- STEP 3: SAWCUT THE ASPHALT PAVEMENT APPROXIMATELY SIX INCHES IN FRONT OF THE GUTTER JOINT FOR THE SECTION OF CURB & GUTTER TO BE REMOVED/REPLACED.
- STEP 4: INSTALL NEW CATCH BASIN AND GRATE, FRAME, AND HOOD.
- STEP 5: INSTALL NEW CURB AND GUTTER.
- STEP 6: PATCH ASPHALT PAVEMENT BETWEEN THE SAWCUT AND THE NEW FACE OF GUTTER.
- STEP 7: REMOVE ALL TRAFFIC CONTROL DEVICES.

PROJECT REFERENCE NO.	SHEET NO.
U-5104	4

ROADWAY DESIGN ENGINEER

V&M
Vaughn & Melton
Consulting Engineers

Asheville,
■ North Carolina
828-253-2795

□ Raleigh, NC 919-977-9455 □ Charlotte, NC 704-357-0488 □ Atlanta, GA 770-627-3590

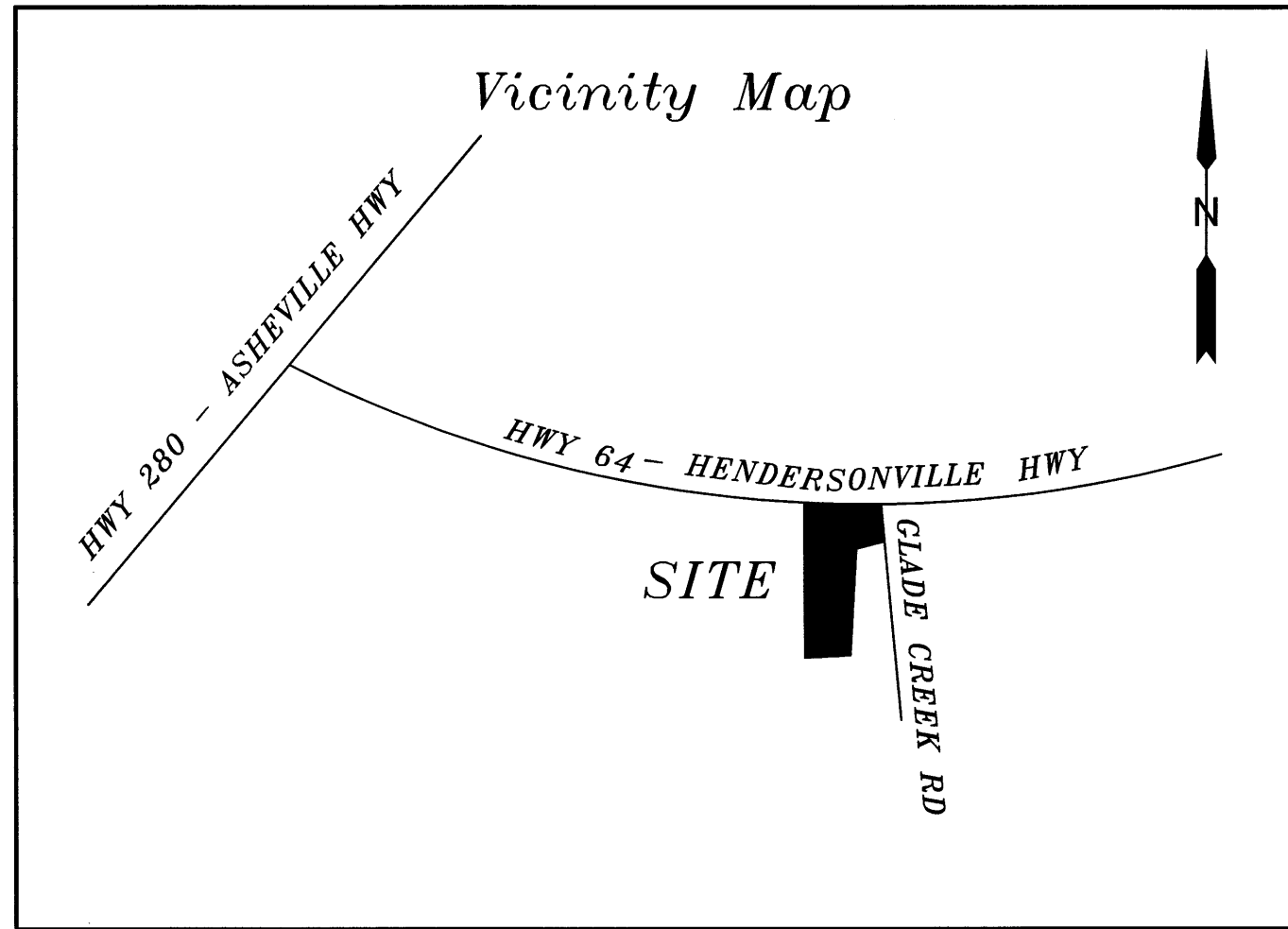
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□ Boone, NC 828-355-9933
□ Tri-Cities, TN 423-467-8401
□ Knoxville, TN 865-546-5800
□ Spartanburg, SC 864-574-4775
□ Charleston, SC 843-974-5650
□ Middlesboro, KY 606-248-6600

BREVARD ACADEMY ADDITIONS & RENOVATIONS

NCDOT NCDOT ROAD WIDENING PLANS

TRANSYLVANIA COUNTY, NORTH CAROLINA



PROJECT LOCATION MAP

NTS

GENERAL CONSTRUCTION NOTES

A. NO CONSTRUCTION SHALL COMMENCE PRIOR TO A PRECONSTRUCTION MEETING WITH THE PROJECT ENGINEER, THE CONTRACTOR AND A REPRESENTATIVE OF THE COUNTY ENVIRONMENTAL HEALTH DEPARTMENT PRESENT.

B. ALL WORK AND MATERIALS MUST MEET OR EXCEED THE STANDARDS SET FORTH IN THE LAWS OF SEWAGE TREATMENT AND DISPOSAL SYSTEMS SET FORTH BY THE N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES 15A NCAC 18A .1900.

C. ALL ELECTRICAL & PLUMBING WORK SHALL MEET OR EXCEED N.C. BUILDING CODE AND BE APPROVED BY THE COUNTY HEALTH DISTRICT IN ADDITION TO APPLICABLE BUILDING INSPECTIONS.

D. ANY ALTERATIONS TO THE PLANS MUST BE APPROVED BY THE PROJECT ENGINEER AND THE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.

E. CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO COMMENCEMENT OF WORK.

F. THE CONTRACTOR SHALL OBTAIN AND PAY FOR, PRIOR TO THE BEGINNING OF ANY WORK, ALL PERMITS AND LICENSES NECESSARY TO ACCOMPLISH THE WORK. PERMITS CAN INCLUDE, BUT ARE NOT LIMITED TO NCDOT ENCRoACHMENT PERMIT, GRADING PERMIT, AND UTILITY COMPANY'S PERMIT FOR THE WORK TO BE PERFORMED ON THEIR RESPECTIVE FACILITIES.

G. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE JOB SITE AND LOCATION OF ALL EXISTING FACILITIES AND UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR WILL BE UNILATERALLY RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING FACILITIES AND UNDERGROUND UTILITIES THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS; AND IF DAMAGED, SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT NO COST TO THE OWNER.

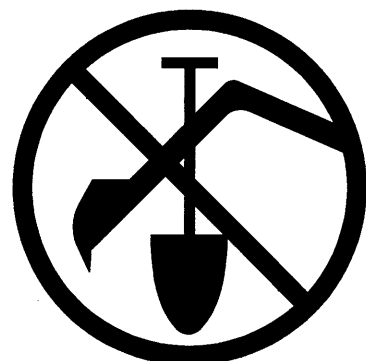
H. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.

1. THE CONTRACTOR SHALL REPAIR ANY EXISTING SITE IMPROVEMENTS DISTURBED BY THE CONSTRUCTION PROCESS TO THE ORIGINAL CONDITIONS.

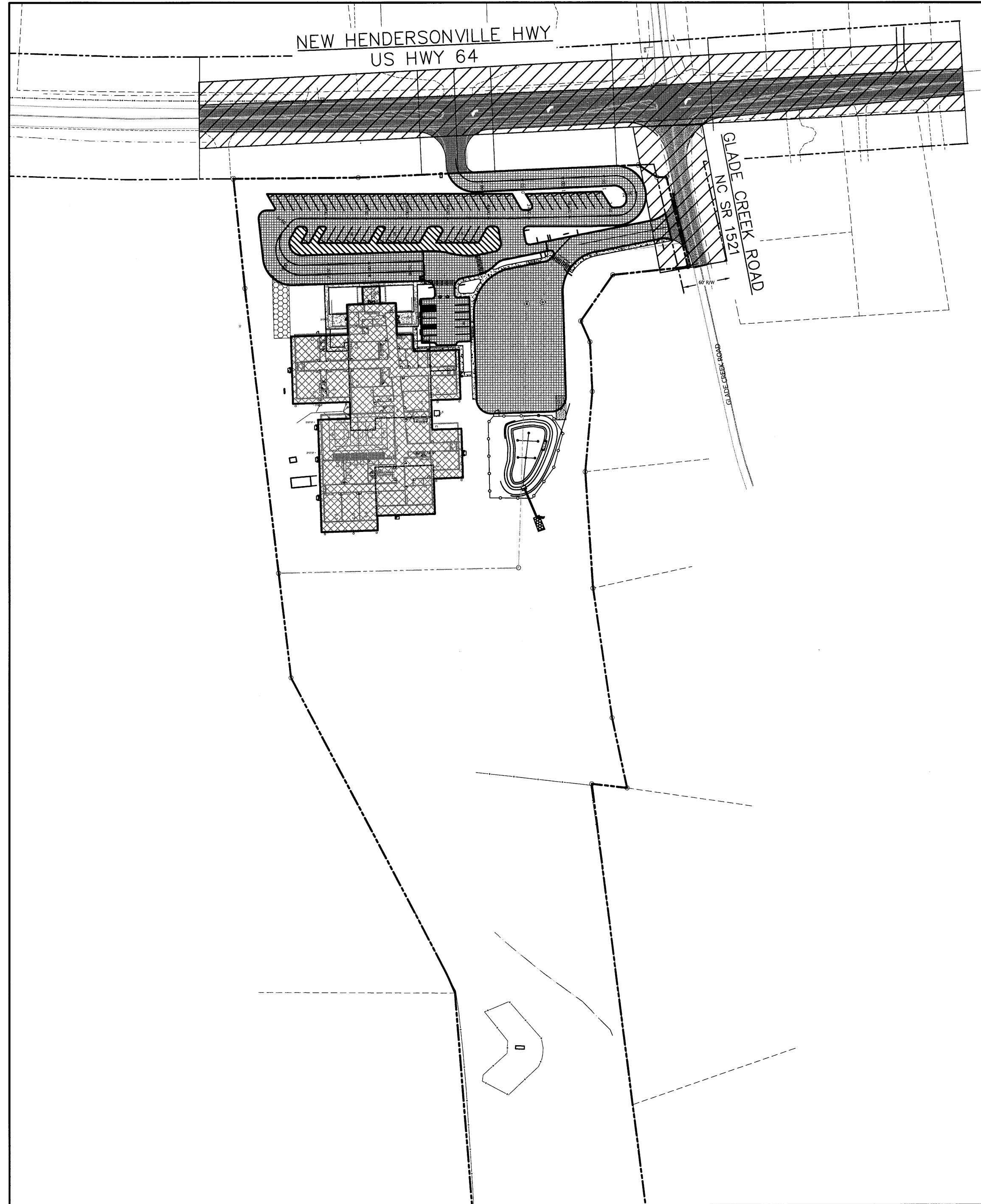
1. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ADEQUATE SUPERVISION TO PREVENT DAMAGE AND MOVEMENT FROM EQUIPMENT WORKING AROUND CONSTRUCTION STAKES. THESE CONSTRUCTION STAKES SHALL REMAIN IN PLACE AND BE PROTECTED UNTIL OWNER APPROVES THEIR REMOVAL. ANY STAKES THAT HAVE BEEN DISPLACED AS A RESULT OF CONSTRUCTION ACTIVITY ARE TO BE REPLACED BY A LICENSED LAND SURVEYOR ENGAGED BY THE CONTRACTOR AT NO COST TO THE OWNER.

J. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN THE ENTIRE SITE OF ALL CONSTRUCTION RELATED MATERIAL OR DEBRIS TO THE OWNERS SATISFACTION.

K. THE ENGINEER WILL NOT BE CONTINUOUSLY PRESENT IN THE FIELD. IT IS SPECIFICALLY UNDERSTOOD THAT HE DOES NOT UNDERTAKE NOR ASSUME ANY OBLIGATION FOR SUPERVISION OF CONSTRUCTION, SAFETY MEASURES TAKEN DURING THE COURSE OF CONSTRUCTION, RESPONSIBILITY FOR SCHEDULING THE WORK FOR INSURING COMPLETE COMPLIANCE WITH THE CONTRACT DOCUMENTS AND/OR ALL CODE REQUIREMENTS, RULES AND REGULATION OF ANY PUBLIC OR PRIVATE AUTHORITY HAVING JURISDICTION OVER THE WHOLE OR ANY PART OF THE WORK. IN ADDITION, THE ENGINEER NEITHER UNDERTAKES, ASSUMES, NOR GUARANTEES THE WORK AND/OR PERFORMANCE OF THE CONTRACTOR.



BEFORE YOU DIG !
CALL 1-800-632-4949
N.C. ONE-CALL CENTER
IT'S THE LAW !



PROJECT NOTES

1. PROJECT ADDRESS: 1155 NEW HENDERSONVILLE RD. CITY OF PISGAH FOREST
2. PARCEL ID: 9507-02-3957 AND 9507-02-3649
3. DISTURBED AREA: 5.50 ACRES
4. PROJECT LOCATION: LAT: 35.27014 N. LONG: -82.68519 W.
5. TOPOGRAPHY IN RIGHT-OF-WAY PROVIDED BY PAUL SEXTON PE, PLS.
6. THE PROJECT IS LOCATED IN THE FRENCH BROAD RIVER BASIN.
7. SITE FLOWS TO WEST PRONG GLADE CREEK, C, S
8. SOIL TYPE: AUGUSTA, DILLARD, AND BRADDOCK
9. MICHAEL HARRINGTON IS THE CONTACT FOR EROSION CONTROL ISSUES. HIS INFORMATION IS IN PROJECT INFO.
10. APPROXIMATELY 5.50 ACRES WILL BE STABILIZED WITH HYDRAMAX FGM AT 3500 LBS/AC.

STABILIZATION

CONTRACTOR MUST PROVIDE GROUNDCOVER IN ACCORDANCE WITH NPDES CONSTRUCTION STORMWATER GENERAL PERMIT NCG010000 AND PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT

PROJECT INFO

CLIENT:	ADDRESS:
CHALLENGE FOUNDATION PROPERTIES OF BREVARD, LLC	MICHAEL HARRINGTON 3324 LINCOLN LN. GASTONIA, NC 28056 P: 704-853-8510

ARCHITECT:	ADDRESS:
LANCER & BEEBE, LLC	MARK BEEBE, AIA 212 N. DELAWARE ST INDIANAPOLIS, IN 46202 P: 317-750-5373

MECHANICAL:	ADDRESS:
JORDAN & SKALA ENGINEERING	4001 CHARLOTTE PARK DR. SUITE 100 CHARLOTTE, NC 28217 P: 704-599-4377

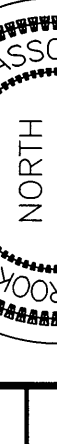
ENGINEER:	ADDRESS:
BROOKS ENGINEERING ASSOCIATES	TRAVIS MAXWELL, PE 17 ARLINGTON STREET ASHEVILLE, NC 28801 P: 828-232-4700

SURVEYOR:	ADDRESS:
BROOKS ENGINEERING ASSOCIATES	PAUL SEXTON, PLS, PE 17 ARLINGTON STREET ASHEVILLE, NC 28801 P: 828-232-4700

REGISTERED AGENT:	ADDRESS:
CT CORPORATION SYSTEM	150 FAYETTEVILLE ST. BOX 1011 RALEIGH, NC 27601

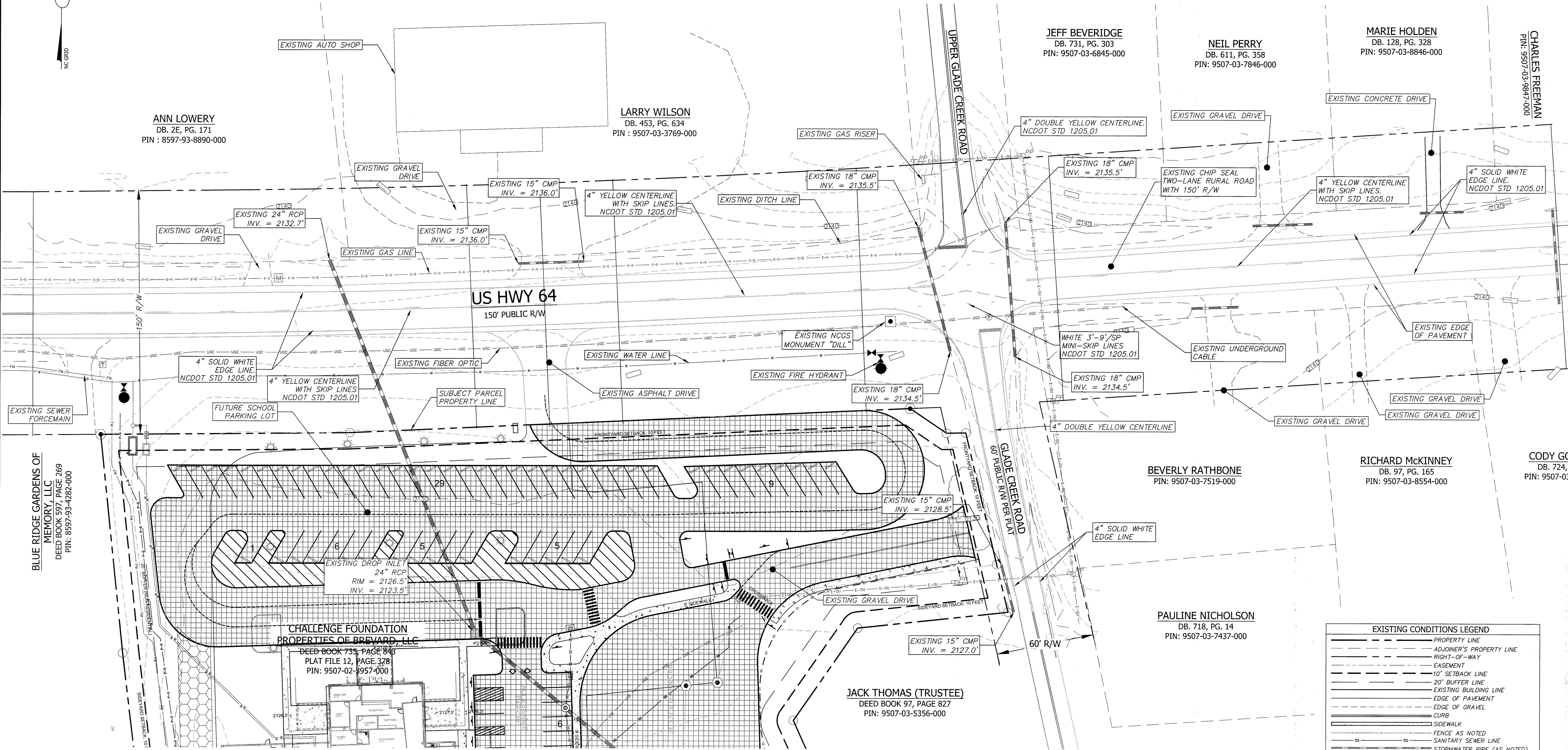
SHEET INDEX

SHEET NO.:	SHEET TITLE
CT-0	COVER SHEET
CT-1.1	EXISTING CONDITIONS
CT-2.1	NCDOT WIDENING PLAN
CT-3.1	STRIPING PLAN
CT-4.1	EROSION CONTROL PLAN
CT-5.1	CROSS-SECTIONS
CT-5.2	CROSS-SECTIONS
CT-6.1	TRAFFIC CONTROL DETAILS
CT-6.2	STRIPING DETAILS
CT-6.3	EROSION CONTROL DETAILS
CT-7.0	SIGHT DISTANCE EXHIBIT

Project No: 421515	BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS BREVARD NORTH CAROLINA		Designed: TMM Drawn: TMM Titled: TMM Checked: TMM Date: 1/12/16	Reviewed: TMM Scale: AS NOTED Date: 1/12/16			No. 1 2	REVISIONS/SUBMISSIONS SUBMISSION TO NCDOT SUBMISSION TO NCDOT/OWNER	Date 4/29/16 5/18/16
Drawing Title: COVER SHEET		Planning • Engineering • Surveying • Environmental Services •		17 Arlington Street Asheville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com		CONSTRUCTION DOCUMENTS			



NC GRID



BLUE RIDGE GARDENS OF
MEMORY, LLC
DEED BOOK 597, PAGE 269
PIN: 8597-93-4282-000

ANN LOWERY
DB. 2E, PG. 171
PIN : 8597-93-8890-000

LARRY WILSON
DB. 453, PG. 634
PIN : 9507-03-3769-000

JEFF BEVERIDGE
DB. 731, PG. 303
PIN: 9507-03-6845-000

NEIL PERRY
DB. 611, PG. 358
PIN: 9507-03-7846-000

MARIE HOLDEN
DB. 128, PG. 328
PIN: 9507-03-8846-000

CHARLES FREEMAN
PIN: 9507-03-9847-000

BEVERLY RATHBONE
PIN: 9507-03-7519-000

RICHARD McKINNEY
DB. 97, PG. 165
PIN: 9507-03-8554-000

CODY GORDON
DB. 724,
PIN: 9507-03-

PAULINE NICHOLSON
DB. 718, PG. 14
PIN: 9507-03-7437-000

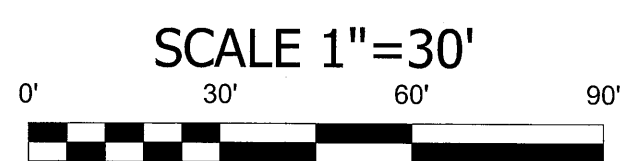
JACK THOMAS (TRUSTEE)
DEED BOOK 97, PAGE 827
PIN: 9507-03-5356-000

CHALLENGE FOUNDATION
PROPERTIES OF BREVARD, LLC
DEED BOOK 735, PAGE 843
PLAT FILE 12, PAGE 378
PIN: 9507-02-9957-000

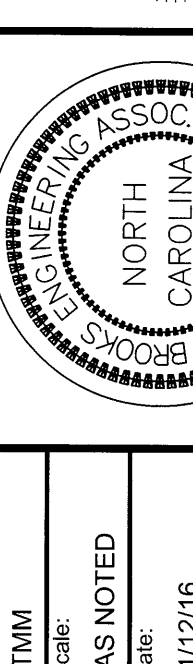
EXISTING CONDITIONS LEGEND	
	PROPERTY LINE
	ADJOINER'S PROPERTY LINE
	RIGHT-OF-WAY
	EASEMENT
	10' SETBACK LINE
	20' BUFFER LINE
	EXISTING BUILDING LINE
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	CURB
	SIDEWALK
	FENCE AS NOTED
	SANITARY SEWER LINE
	STORMWATER PIPE (AS NOTED)
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND CABLE LINE
	EXISTING GAS LINE
	TREE LINE
	REBAR FOUND (AS DESCRIBED)
	IRON PIPE FOUND (AS NOTED)
	C.O.
	SEWER CLEANOUT
	SEPTIC TANK RISER
	SEWER MANHOLE
	STORM MANHOLE
	STORM DRAIN DROP INLET
	COMMUNICATIONS PEDESTAL
	TELEPHONE MANHOLE
	ELECTRICAL STUB OUT
	ELECTRICAL TRANSFORMER
	LIGHT POLE
	POWER POLE
	TRAFFIC SIGNAL BOX
	STREET SIGN
	MAIL BOX



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- PLAT NOTES:
- The purpose of this map is to show existing conditions and topographic information at the time of the survey. This map should not be used for the conveyance of property.
 - Full legal descriptions of property found at Transylvania County Register in DB. 735, PG. 843; DB. 735, PG. 846; & PF 12, PG. 378.
 - Elevation datum based on NCGS Monument "Dills".
 - By graphic determination, the Subject Parcels are located in zone "X" per FIRM map number 37009507001 dated November 2, 2010.
 - Transylvania County GIS was used to determine ownership information.
 - Property subject to all easements, rights-of-way and restrictions of record.
 - Underground utility locations based on marks made by others. The surveyor assumes no responsibility for the accuracy of these marks.

Project No: 421515		BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS		NORTH CAROLINA				Designed: TMM		Reviewed: TMM						No.		REVISIONS/SUBMISSIONS		Date	
CT-1.1		BREVARD		NORTH CAROLINA				Drawn: TAS		AS NOTED				1		SUBMISSION TO NCDOT		4/29/16			
								Checked: TMM		11/21/16				2		SUBMISSION TO NCDOT/OWNER		5/18/16			
Drawing Title:		EXISTING CONDITIONS				Planning • Engineering • Surveying • Environmental Services •		17 Arlington Street Asheville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brookssea.com				CONSTRUCTION DOCUMENTS									
																				Revision/Submission number with a triangle indicates changes made on this sheet	



SITE SUMMARY

500 STUDENTS
40 TOTAL PARKING SPACES
(66 FACULTY PARKING & 5 H/C)
FRONTYARD SETBACK: 10 FEET
SIDEYARD SETBACK: 10 FEET
REARYARD SETBACK: 10 FEET
15' FIRE ACCESS LANE (GRAVEL)
20' BUFFER (NON-RESIDENTIAL)
ADA ACCESS: 1" PER FOOT (8.67% MAX)
ADA ACCESS GUIDELINES ARE MET

CONSTRUCTION NOTES:

A. EXISTING TOPOGRAPHICAL INFORMATION SHOWN HEREON WAS OBTAINED FROM A SURVEY BY BROOKS ENGINEERING ASSOCIATES.

B. CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNERS FACILITIES AND SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL DAMAGES WHICH OCCUR DURING CONSTRUCTION.

C. LOCATION OF ALL EXISTING UTILITIES, AS SHOWN HEREON, ARE APPROXIMATE ONLY. NO GUARANTEE IS MADE OR IMPLIED BY THE LOCATION REFLECTED IN THE PLANS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE TYPE, SIZE AND LOCATION OF ALL UTILITIES AND OTHER FEATURES WHICH MAY EFFECT CONSTRUCTION OR THE INTENDED FUNCTION OF THE DESIGN. CONTRACTOR SHALL NOTIFY DESIGNER PRIOR TO CONSTRUCTION IF EXISTING CONDITIONS DIFFER FROM THAT INDICATED IN THE PLANS.

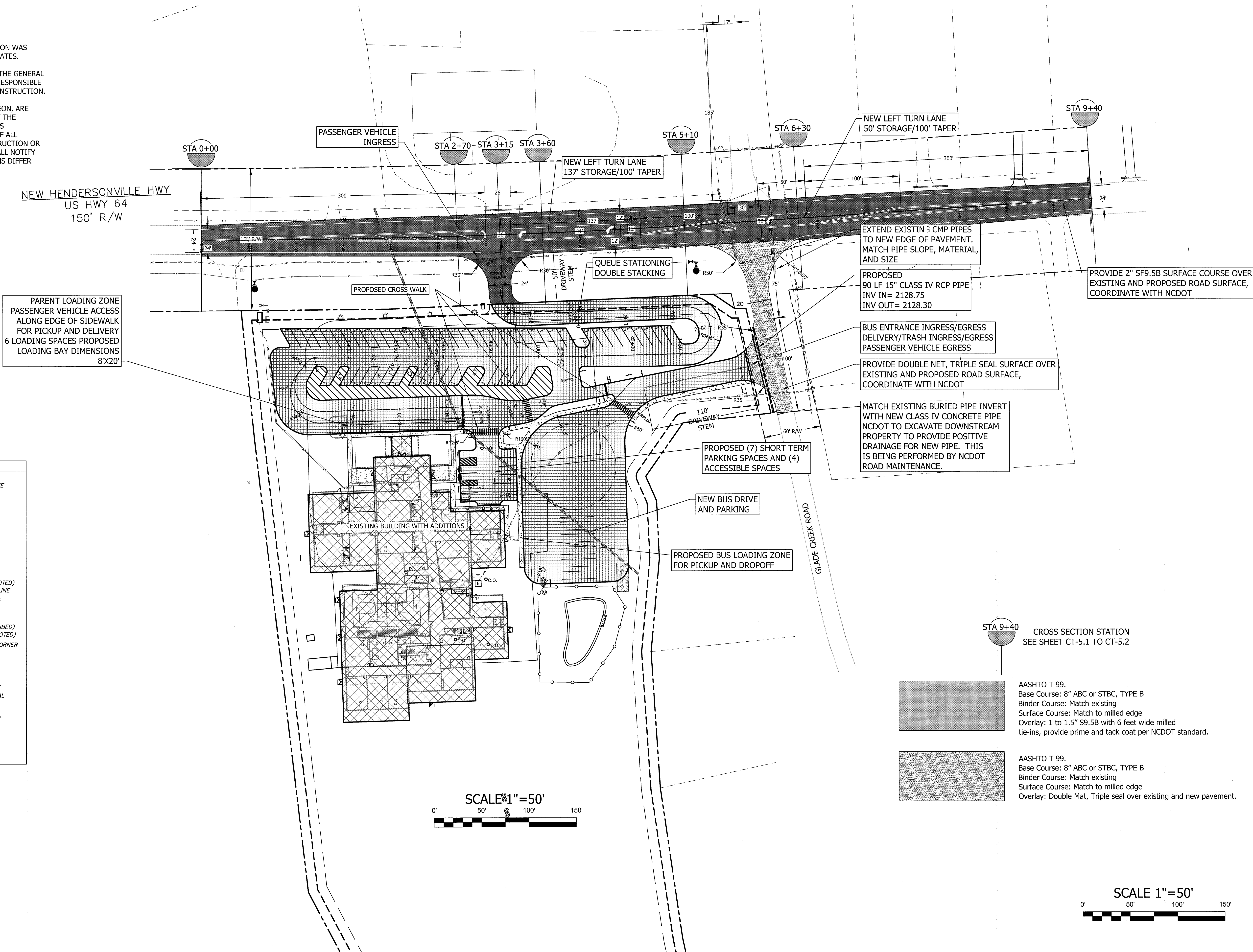
D. REFER TO SHEET C820 FOR SITE WORK DETAILS.

CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING AND EROSION CONTROL PERMIT FROM NCDENR.
2. SCHEDULE PRE-CONSTRUCTION MEETING WITH REPRESENTATIVE OF NCDENR, ENGINEER, AND OWNER REPRESENTATIVE.
3. INSTALL ALL INLET PROTECTION ON EXISTING STORM DRAINAGE STRUCTURES AS SHOWN.
4. INSTALL SILT FENCE, CONSTRUCTION ENTRANCE, AND ALL OTHER EROSION CONTROL STRUCTURES.
5. BEGIN GRADING SITE.
6. INSTALL INLET PROTECTION ON NEW STORM STRUCTURES.
7. SEED AND STABILIZE SITE.
8. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SITE IS STABILIZED.

NC DOT NOTES:

1. THE SCHOOL ANTICIPATES 500 STUDENTS.
2. THE SCHOOL WILL PROVIDE ELEMENTARY EDUCATION, GRADES K - 8.
3. THE SCHOOL PLANS TO USE TRADITIONAL ATTENDANCE (NOT YEAR ROUND).
4. TOTAL QUE LENGTH IS AS FOLLOWS:
725 OF DOUBLE STACKING= 1450 FEET
PER MSTA, REQUIRED STACKING IS 1430 FEET



EXISTING CONDITIONS LEGEND	
	PROPERTY LINE
	ADJOINER'S PROPERTY LINE
	RIGHT-OF-WAY
	EASEMENT
	10' SETBACK LINE
	20' BUFFER LINE
	EXISTING BUILDING LINE
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	CURB
	SIDEWALK
	FENCE AS NOTED
	SANITARY SEWER LINE
	STORMWATER PIPE (AS NOTED)
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND CABLE LINE
	EXISTING GAS LINE
	TREE LINE
	REBAR FOUND (AS DESCRIBED)
	IRON PIPE FOUND (AS NOTED)
	CALCULATED PROPERTY CORNER
	SEWER CLEANOUT
	SEPTIC TANK RISER
	SEWER MANHOLE
	STORM MANHOLE
	STORM DRAIN DROP INLET
	COMMUNICATIONS PEDESTAL
	TELEPHONE MANHOLE
	ELECTRICAL STUB OUT
	ELECTRICAL TRANSFORMER
	LIGHT POLE
	POWER POLE
	TRAFFIC SIGNAL BOX
	STREET SIGN
	MAIL BOX

SCALE 1"=50'

STA 9+40 CROSS SECTION STATION
SEE SHEET CT-5.1 TO CT-5.2

AASHTO T 99.
Base Course: 8" ABC or STBC, TYPE B
Binder Course: Match existing
Surface Course: Match to milled edge
Overlay: 1 to 1.5" S9.5B with 6 feet wide milled tie-ins, provide prime and tack coat per NCDOT standard.

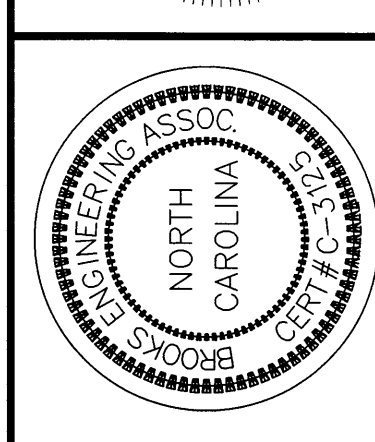
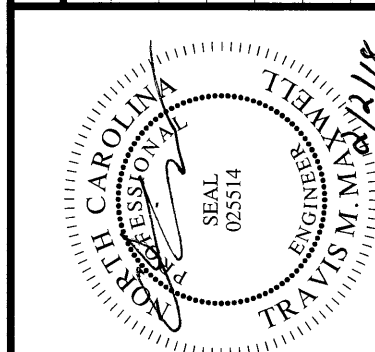
AASHTO T 99.
Base Course: 8" ABC or STBC, TYPE B
Binder Course: Match existing
Surface Course: Match to milled edge
Overlay: Double Mat, Triple seal over existing and new pavement.

SCALE 1"=50'



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REVISIONS/SUBMISSIONS		Date
No.	1	4/29/16
	2	5/18/16
SUBMISSION TO NCDOT		
SUBMISSION TO NCDOT/OWNER		

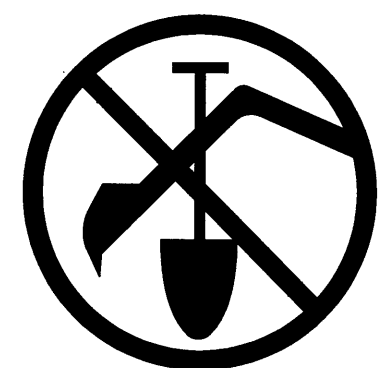
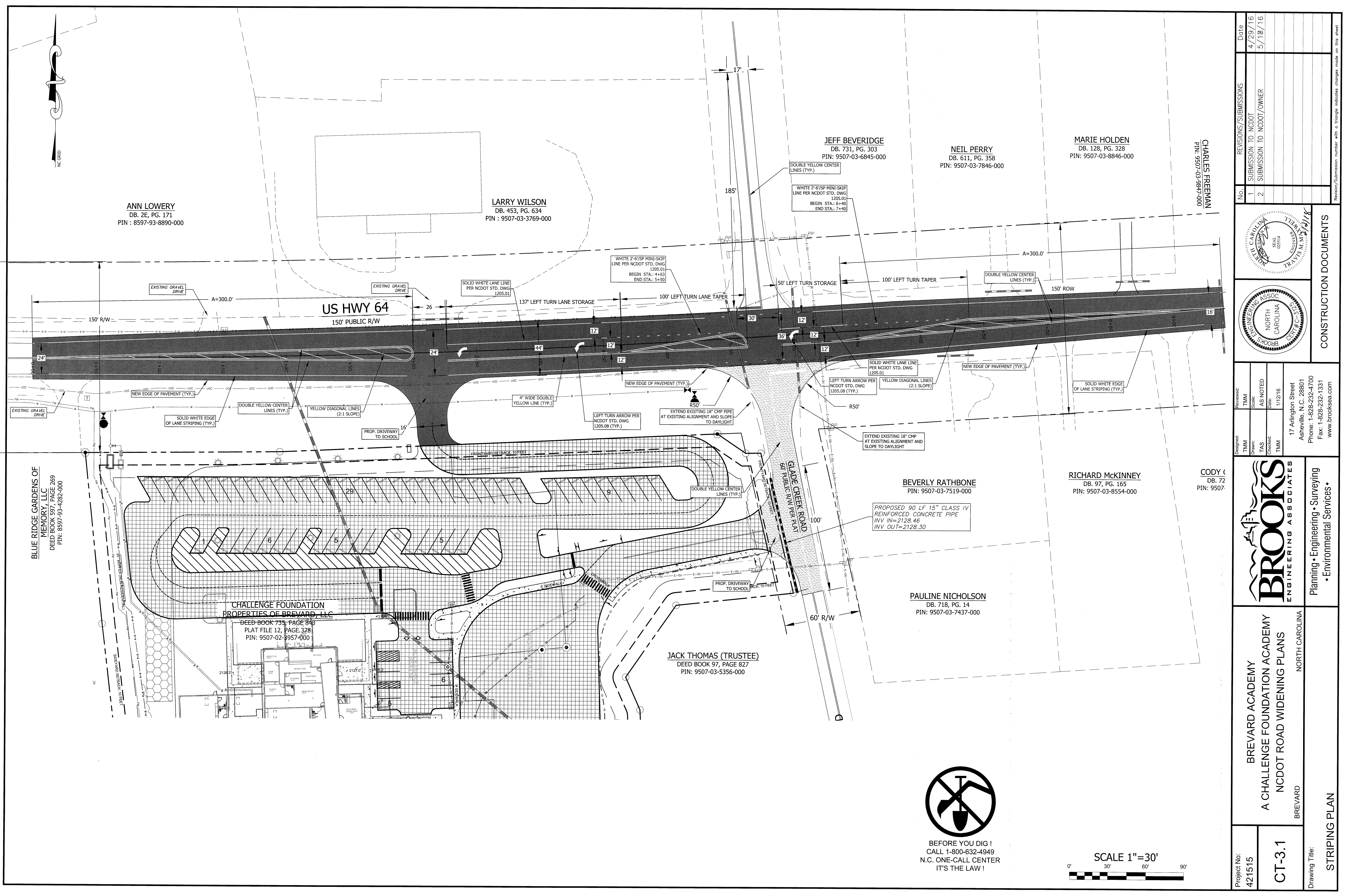


Reviewed:	TMM	Scale:	AS NOTED
Drawn:	TAS	Date:	1/12/16
Checked:	TMM		
17 Arlington Street Asheville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com			

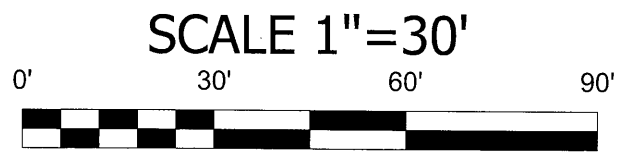
BROOKS
ENGINEERING ASSOCIATES

Planning • Engineering • Surveying
• Environmental Services •

BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS		NORTH CAROLINA	
BREVARD		NCDOT WIDENING PLAN	
Project No:	421515	Drawing Title:	CT-2.1



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Project No: 421515	BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS BREVARD NORTH CAROLINA	Drawing Title: STRIPING PLAN	No.	REVISIONS/SUBMISSIONS	Date
				1 SUBMISSION TO NCDOT	4/29/16
CT-3.1				2 SUBMISSION TO NCDOT/OWNER	5/18/16
					CONSTRUCTION DOCUMENTS
			Designed: TMM	Reviewed: TMM	17 Arlington Street Asheville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com
			Drawn: TAS	Scale: AS NOTED	
			Checked: TMM	Date: 1/12/16	
			Planning • Engineering • Surveying • Environmental Services •		



ANN LOWERY
DB. 2E, PG. 171
PIN : 8597-93-8890-000

LARRY WILSON
DB. 453, PG. 634
PIN : 9507-03-3769-000

JEFF BEVERIDGE
DB. 731, PG. 303
PIN: 9507-03-6845-000

NEIL PERRY
DB. 611, PG. 358
PIN: 9507-03-7846-000

MARIE HOLDEN
DB. 128, PG. 328
PIN: 9507-03-8846-000

CHARLES FREEMAN
PIN: 9507-03-9847-000

BLUE RIDGE GARDENS OF
MEMORY, LLC
DEED BOOK 597 PAGE 269
PIN: 8597-93-4282-000

CHALLENGE FOUNDATION
PROPERTIES OF BREVARD, LLC
DEED BOOK 733 PAGE 846
PLAT FILE 12, PAGE 328
PIN: 9507-02-9857-000

BEVERLY RATHBONE
PIN: 9507-03-7519-000

RICHARD McKINNEY
DB. 97, PG. 165
PIN: 9507-03-8554-000

CODY G
DB. 724
PIN: 9507-0

PAULINE NICHOLSON
DB. 718, PG. 14
PIN: 9507-03-7437-000

STANDARD GRADING NOTES:

- A PRECONSTRUCTION CONFERENCE BETWEEN THE OWNER, THE CONTRACTOR AND THE DESIGN ENGINEER SHALL BE CONDUCTED PRIOR TO START OF ANY CONSTRUCTION. THE ONLY SITE WORK TO BE ALLOWED TO TAKE PLACE PRIOR TO THE FULL INSTALLATION OF EROSION CONTROL MEASURES WILL BE THE CUTTING OF TREES. CLEARING, TREE REMOVAL OPERATIONS CANNOT BEGIN UNTIL PERMITS ARE SECURED AND EROSION CONTROL MEASURES ARE IN PLACE.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED.
- THE SITE SHALL RECEIVE TEMPORARY/PERMANENT SEEDING WITHIN 15 DAYS OF COMPLETION OF GRADING OPERATIONS. ALL GRADED SLOPES INCLUDING TOPSOIL ARE TO HAVE A GROUND COVER APPLIED WITHIN 21 CALENDAR DAYS OF INACTIVITY. G.C. TO MAINTAIN SEEDED AREA THROUGHOUT DURATION OF CONSTRUCTION.
- THE OWNER SHALL ENGAGE A GEOTECHNICAL ENGINEER TO REVIEW AND CERTIFY STABILITY OF CUT SLOPES GREATER THAN 1.5:1 AND FILL SLOPES STEEPER THAN 2:1.
- EXISTING DRAINAGE SYSTEM SHALL BE MAINTAINED AT ALL TIMES WITH INLET PROTECTION.
- PROPOSED INLET PROTECTION TO BE CLEANED OF SEDIMENT AFTER EACH RAIN EVENT. SEDIMENT SHALL BE CONTROLLED AND DETAINED ON SITE PRIMARILY WITH INLET PROTECTION THE PROPOSED AND EXISTING STORM DRAINAGE SYSTEM. INLET PROTECTION MUST BE DILIGENTLY REPAIRED AND INSPECTED.

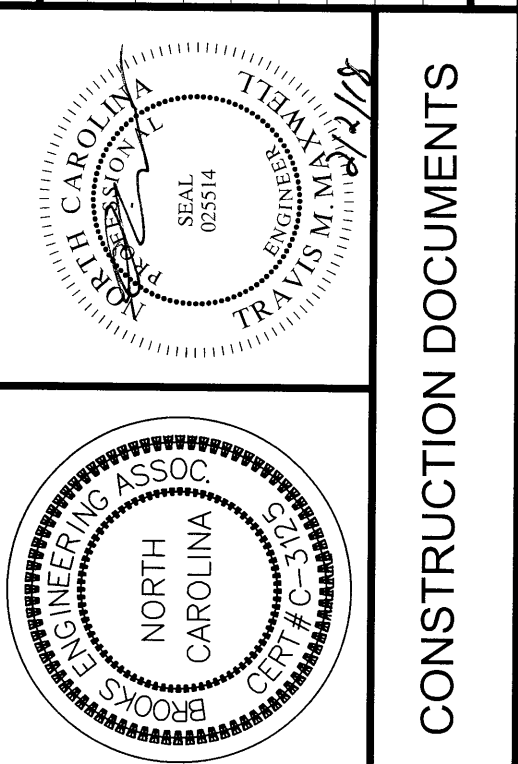


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EROSION CONTROL LEGEND	
	PROPERTY LINE
	ADJOINER'S PROPERTY LINE
	RIGHT-OF-WAY
	EASEMENT
	EXISTING BUILDING LINE
	EXISTING EDGE OF GRAVEL
	EXISTING CURB
	EXISTING SIDEWALK
	EXISTING STORM PIPE
	NEW EDGE OF PAVEMENT
	NEW SILT FENCE
	NEW TEMPORARY SILT DITCH
	NEW LIMITS OF DISTURBANCE
	NEW INLET PROTECTION
	NEW RIP RAP FLUME

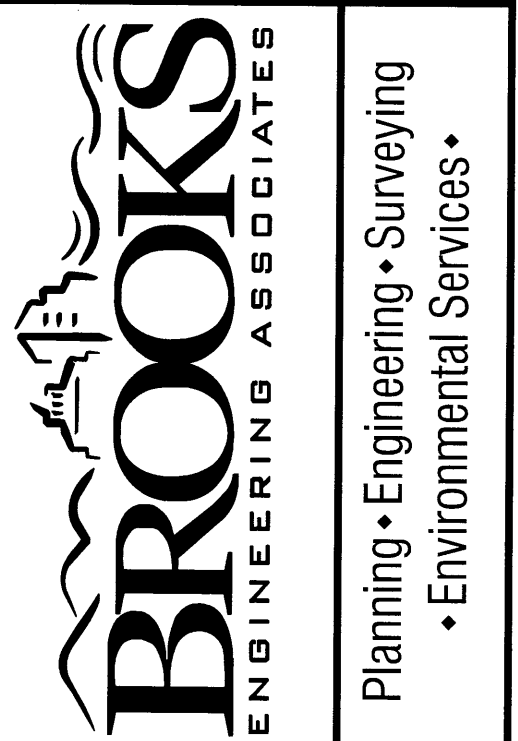
SCALE 1"=30'
0' 30' 60' 90'

REVISIONS/SUBMISSIONS		Date
No.	1	4/29/16
	2	5/18/16
SUBMISSION TO NCDOT		
SUBMISSION TO NCDOT/OWNER		

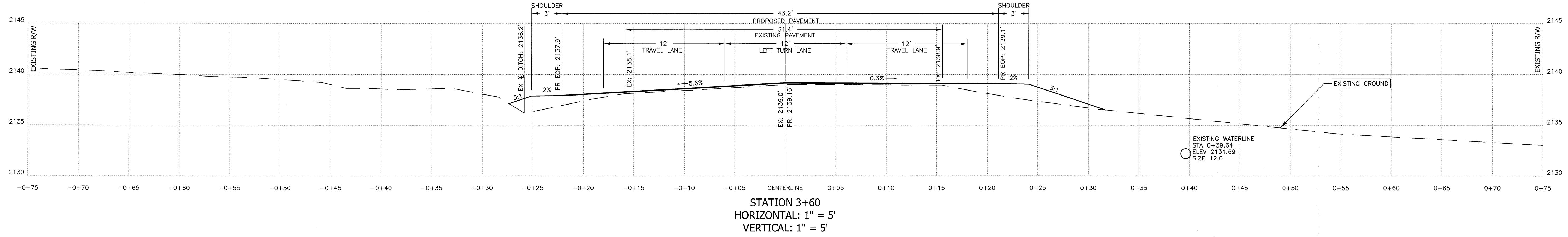


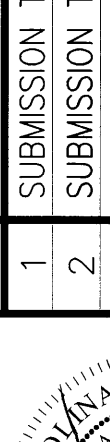
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Drawn:	TAS	Date:	1/12/16
Checked:	TMM		

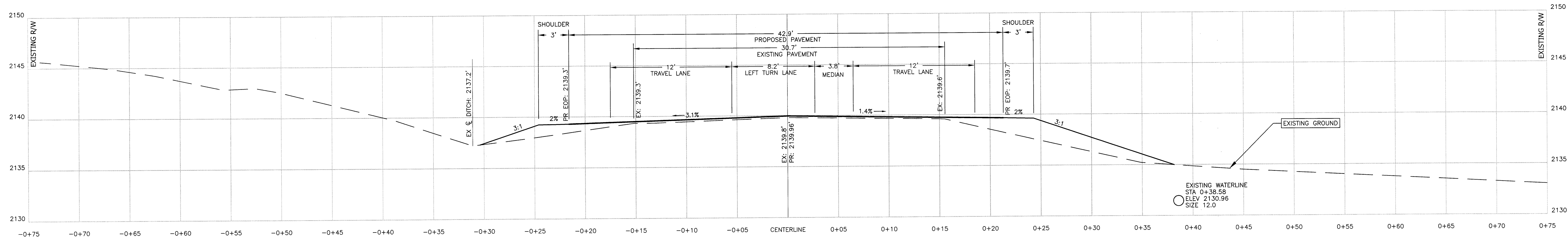
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Asheville, N.C. 28801
Phone: 1-828-232-4700
Fax: 1-828-232-1331
www.brooksea.com



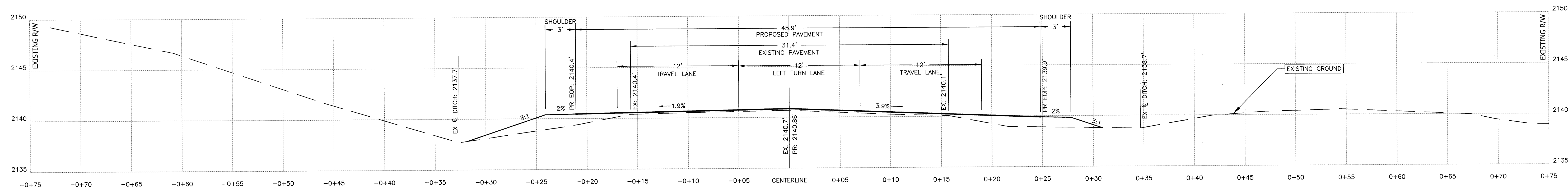
BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS		NORTH CAROLINA BREVARD
Project No: 421515	CT-4.1	EROSION CONTROL PLAN
Drawing Title:		



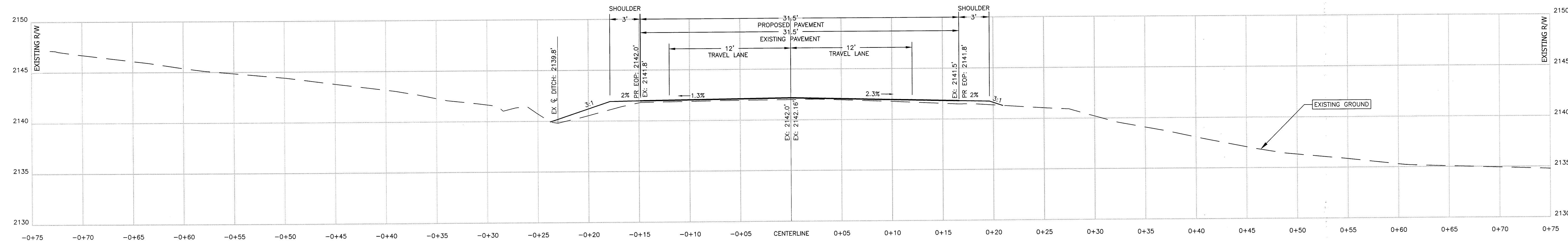
Project No: 421515	BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS BREVARD NORTH CAROLINA	 BROOKS ENGINEERING ASSOCIATES	Planning • Engineering • Surveying • Environmental Services •	CONSTRUCTION DOCUMENTS			No. REVISIONS/SUBMISSIONS 1 SUBMISSION TO NCDOT 2 SUBMISSION TO NCDOT/OWNER 4/29/16 5/18/16	Date
CT-5.1								
Drawing Title:	CROSS SECTIONS	Designed: TMM Reviewed: TMM Drawn: TAS Scale: AS NOTED Checked: TMM Date: 1/12/16 17 Arlington Street Asheville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com						



STATION 5+10
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'

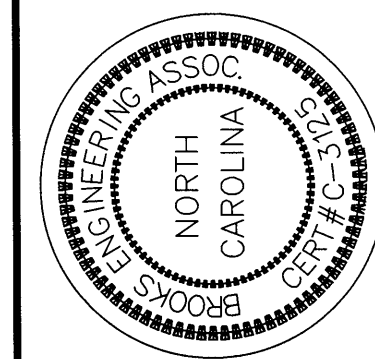
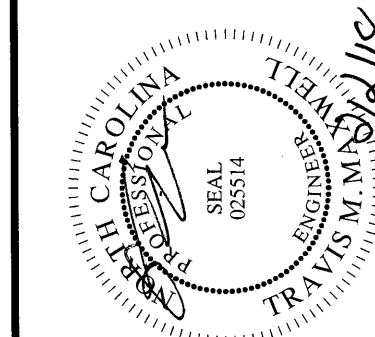


STATION 6+30
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'



STATION 9+40
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'

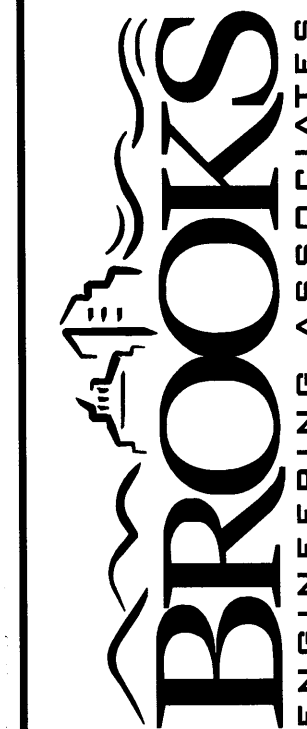
REVISIONS/SUBMISSIONS		Date
No.	1	SUBMISSION TO NCDOT 4/29/16
	2	SUBMISSION TO NCDOT/OWNER 5/18/16



CONSTRUCTION DOCUMENTS

Designed:	TMM	Reviewed:	TMM
Drawn:	TAS	Scale:	AS NOTED
Checked:	TMM	Date:	1/12/16

17 Arlington Street
Asheville, N.C. 28801
Phone: 1-828-232-4700
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BREVARD ACADEMY
A CHALLENGE FOUNDATION ACADEMY
NCDOT ROAD WIDENING PLANS
BREVARD
NORTH CAROLINA

Project No:	421515
Drawing Title:	CT-5.2 CROSS SECTIONS

NORTH CAROLINA
DIVISION OF HIGHWAYS
RALEIGH, N.C.

TRAFFIC CONTROL DESIGN TABLES

SPACING OF TEMPORARY SIGNS IN SERIES

ENGLISH STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES
SPACING OF TEMPORARY SIGNS IN SERIES

SECTION 101-1.11

ADVANCE WARNING SIGN
SPACING CHART

PERIOD DAILY LIMIT (Vehicles)	Minimum Spacing Between Signs		
	(A)	(B)	(C)
1-30	300	240	200
30-50	300	240	200
50-100	300	240	200
100-200	300	240	200
200-400	300	240	200
400-600	300	240	200
600-800	300	240	200
800-1000	300	240	200
1000-1500	300	240	200
1500-2000	300	240	200
2000-3000	300	240	200
3000-4000	300	240	200
4000-5000	300	240	200
5000-6000	300	240	200
6000-8000	300	240	200
8000-10000	300	240	200
10000-15000	300	240	200
15000-20000	300	240	200
20000-30000	300	240	200
30000-40000	300	240	200
40000-50000	300	240	200
50000-60000	300	240	200
60000-80000	300	240	200
80000-100000	300	240	200
100000-150000	300	240	200
150000-200000	300	240	200
200000-300000	300	240	200
300000-400000	300	240	200
400000-500000	300	240	200
500000-600000	300	240	200
600000-800000	300	240	200
800000-1000000	300	240	200
1000000-1500000	300	240	200
1500000-2000000	300	240	200
2000000-3000000	300	240	200
3000000-4000000	300	240	200
4000000-5000000	300	240	200
5000000-6000000	300	240	200
6000000-8000000	300	240	200
8000000-10000000	300	240	200
10000000-15000000	300	240	200
15000000-20000000	300	240	200
20000000-30000000	300	240	200
30000000-40000000	300	240	200
40000000-50000000	300	240	200
50000000-60000000	300	240	200
60000000-80000000	300	240	200
80000000-100000000	300	240	200
100000000-150000000	300	240	200
150000000-200000000	300	240	200
200000000-300000000	300	240	200
300000000-400000000	300	240	200
400000000-500000000	300	240	200
500000000-600000000	300	240	200
600000000-800000000	300	240	200
800000000-1000000000	300	240	200
1000000000-1500000000	300	240	200
1500000000-2000000000	300	240	200
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3000000000-4000000000	300	240	200
4000000000-5000000000	300	240	200
5000000000-6000000000	300	240	200
6000000000-8000000000	300	240	200
8000000000-10000000000	300	240	200
10000000000-15000000000	300	240	200
15000000000-20000000000	300	240	200
20000000000-30000000000	300	240	200
30000000000-40000000000	30		

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ALBANY, N.Y.	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ALBANY, N.Y.	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ALBANY, N.Y.	EXAMPLE OF "L" AND "W" DESIGNATIONS 	QUICK REFERENCE - "L" DISTANCE TABLE BASED ON MINIMUM DESIGN SPEED (MPH) LATERAL CLEARANCE (FEET) (FRT) <table> <tr> <th>DESIGN SPEED 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GENERAL NOTES

1. ADVANCE WARNING SIGN (TYPE I) SHALL BE PLACED 100 FEET BEFORE THE BEGINNING OF THE WORK AREA. ADVANCE WARNING SIGN (TYPE II) SHALL BE PLACED 50 FEET BEFORE THE BEGINNING OF THE WORK AREA.
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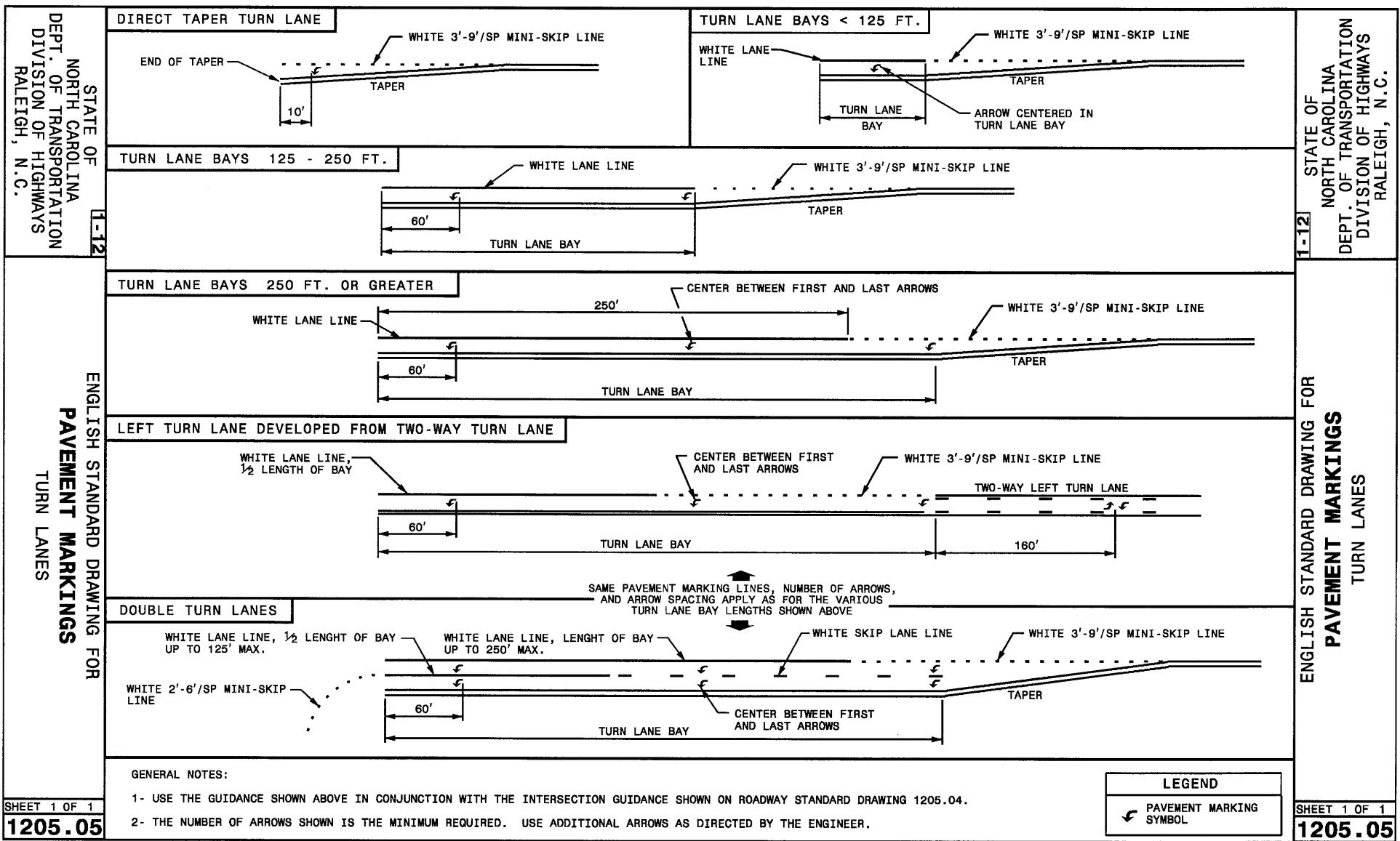
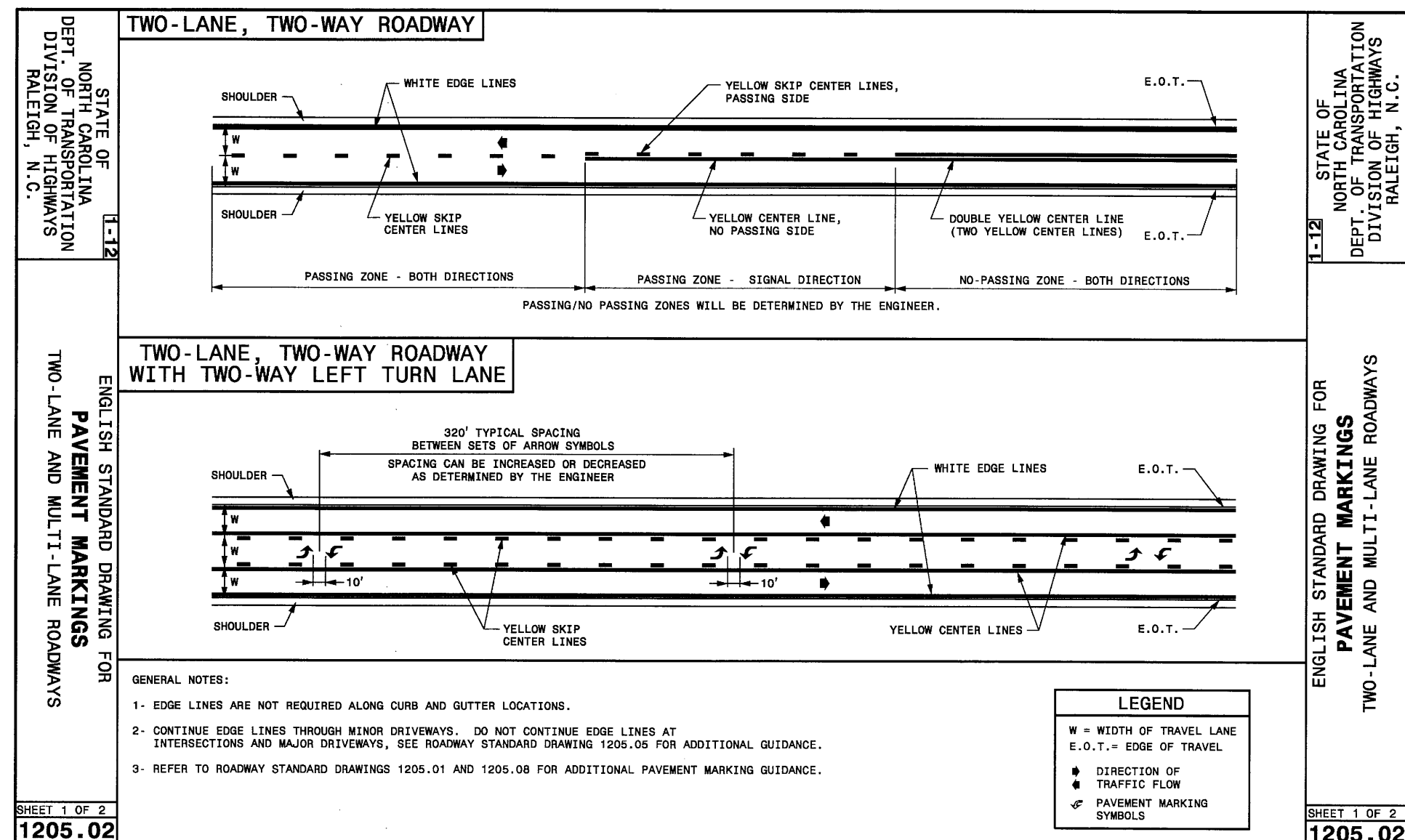
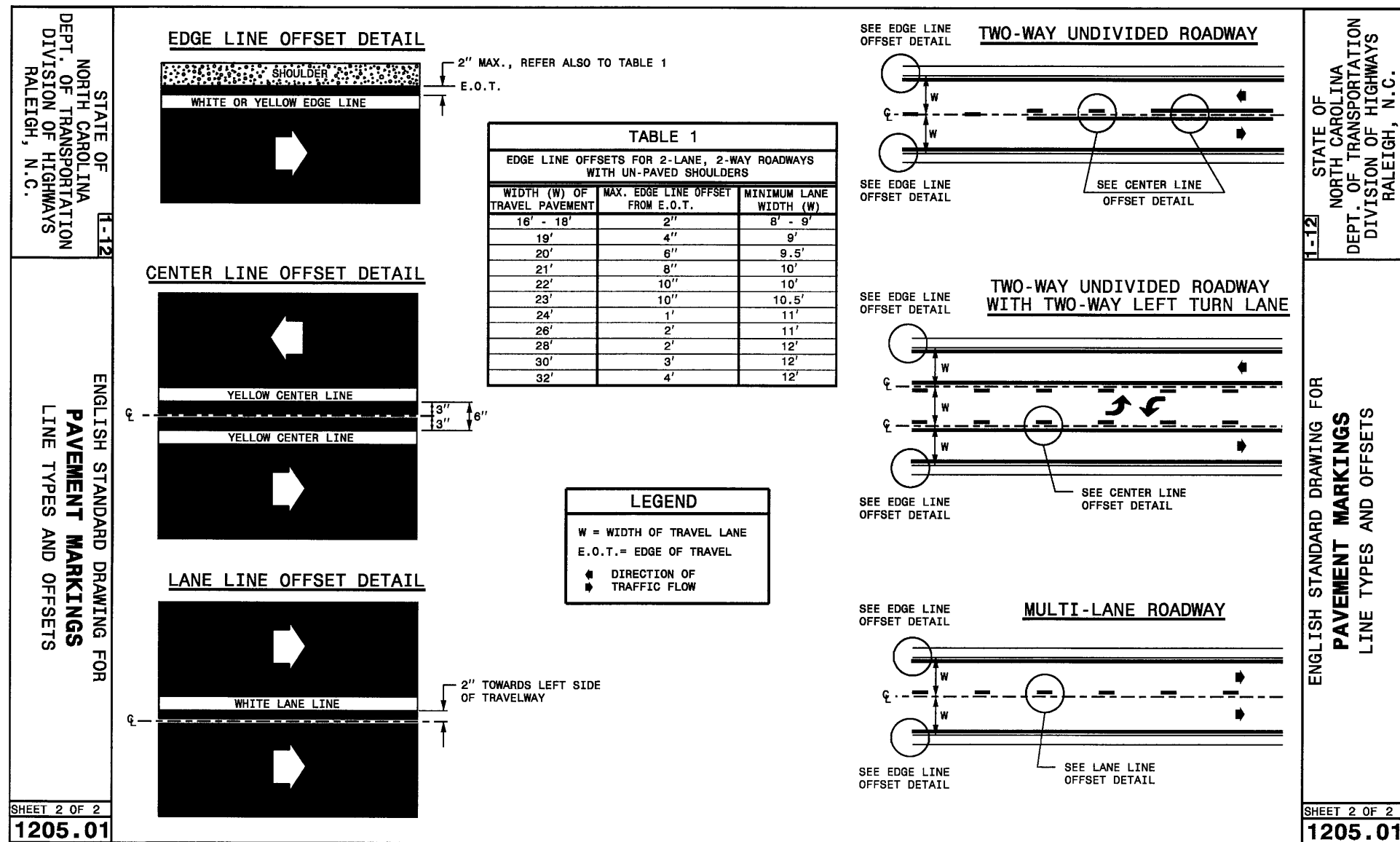
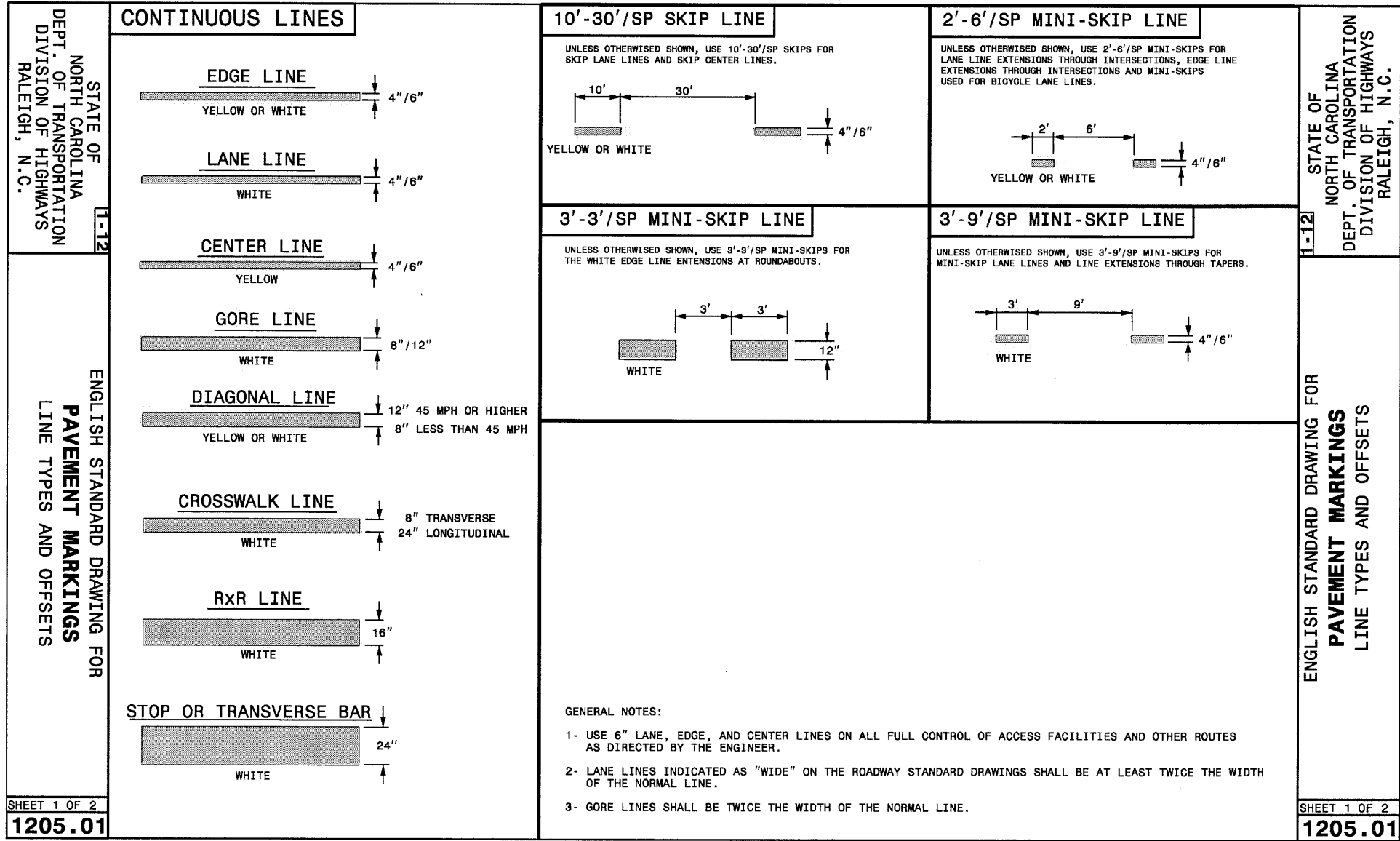
LEGEND

- ▲ CORNER OR RADIUS SIGN
- ADVANCE WARNING SIGN (TYPE I) OR ADVANCE WARNING SIGN (TYPE II)
- PORTABLE MESSAGE SIGN
- DIRECTION OF TRAFFIC FLOW

STATE OF NEW YORK
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
AUTOMATIC FLAGGING ASSISTANCE SYSTEM (AFAS)
TEMPORARY LANE CLOSURES USING YELLOW FLAG (TYPE I) AND YELLOW FLAG (TYPE II) ADVANCE WARNING SIGNS

1101.02

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]



Project No: 421515	BREVARD ACADEMY A CHALLENGE FOUNDATION ACADEMY NCDOT ROAD WIDENING PLANS NORTH CAROLINA BREVARD	Drawing Title: STRIPING DETAILS	No.	REVISIONS / SUBMISSIONS	Date
				1 SUBMISSION TO NCDOT	4/29/16
CT-6.2			2 SUBMISSION TO NCDOT/OWNER	5/18/16	
			Revision/Submission number with a triangle indicates changes made on this sheet		
			CONSTRUCTION DOCUMENTS		
			Reviewed: TMM Scale: AS NOTED Drawn: TMS Checked: TMM Date: 1/12/16 17 Arlington Street Asheville, N.C. 28801 Phone: 1-828-232-4700 Fax: 1-828-232-1331 www.brooksea.com		
			BROOKS ENGINEERING ASSOCIATES Planning • Engineering • Surveying • Environmental Services •		

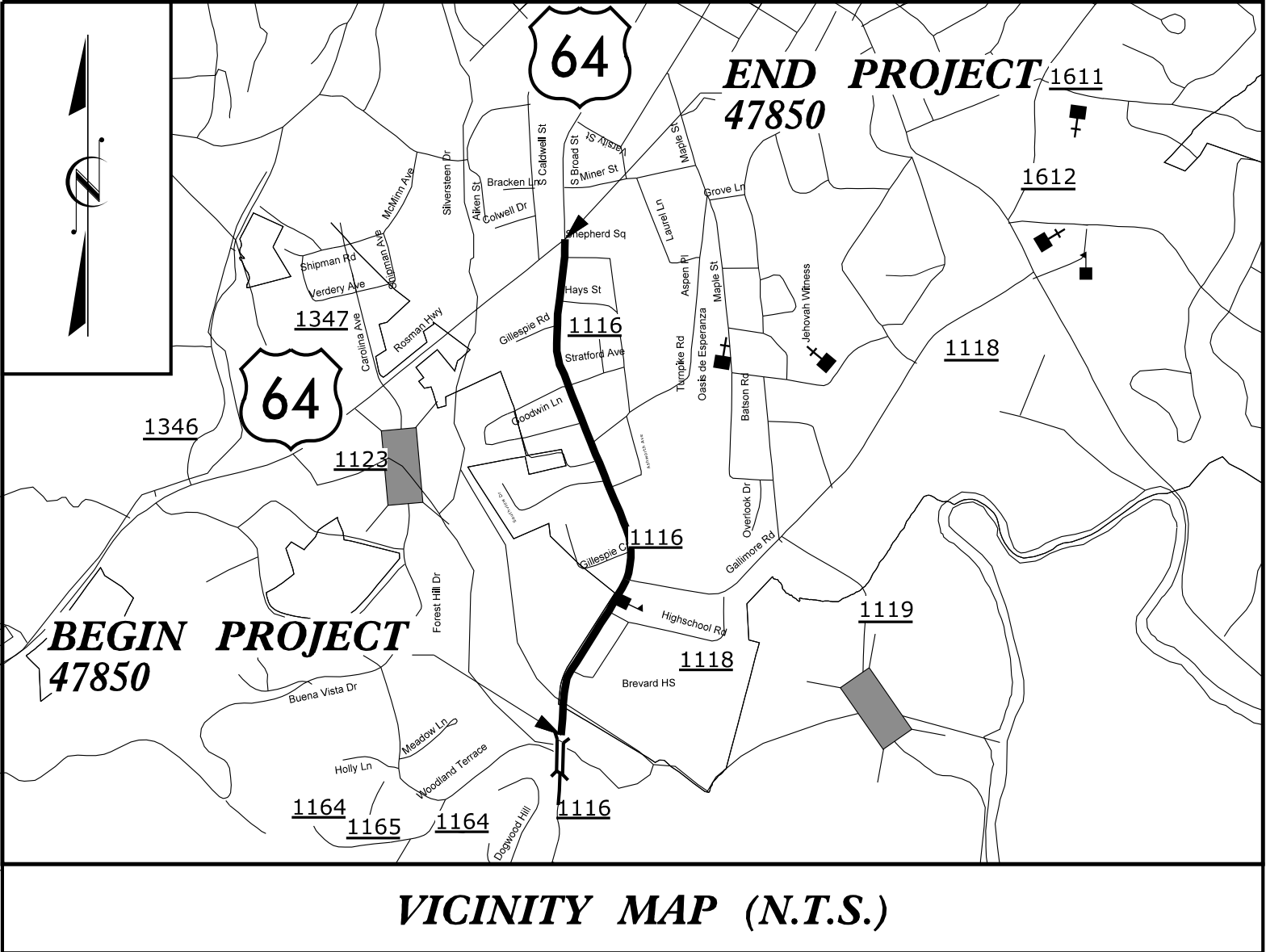
09/08/2019

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R-5794I

CONTRACT: DN0075I

See Sheet 1A For Index of Sheets
See Sheet 1B For Standard Symbology Sheet



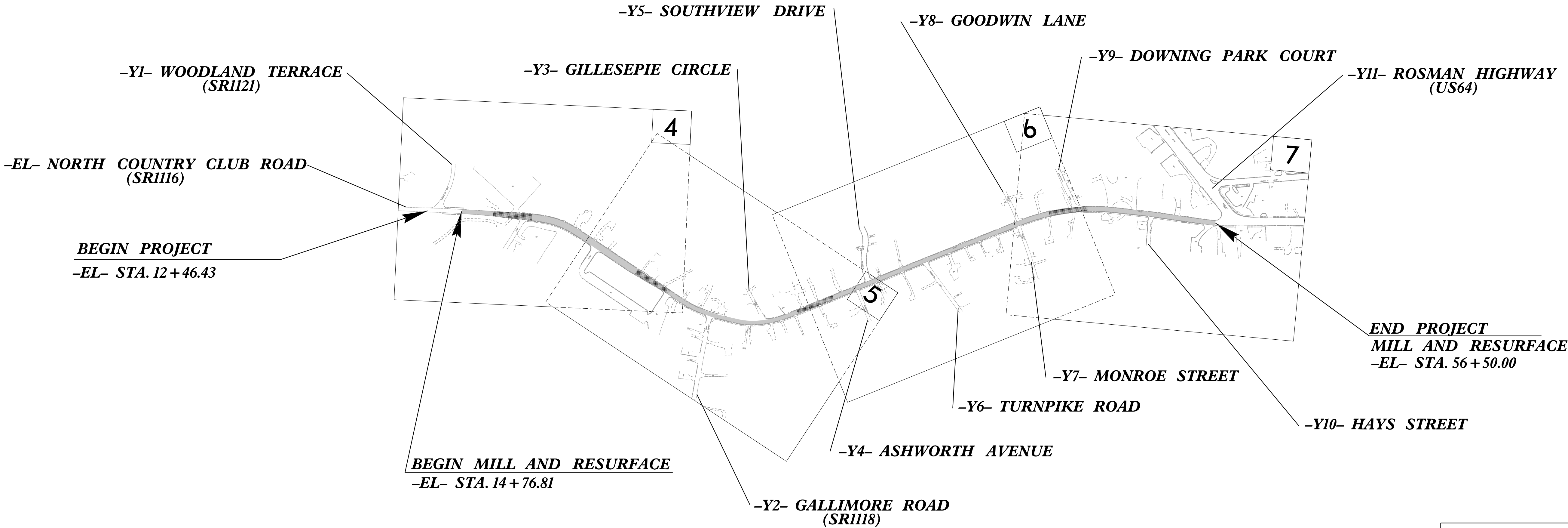
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSYLVANIA COUNTY

LOCATION: NORTH COUNTRY CLUB ROAD (SR1116)
BETWEEN WOODLAND TERRACE ROAD AND US 64

TYPE OF WORK: GRADING, MILLING, RESURFACING, AND SIDEWALK

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47850	1	
STATE PROJ. NO.	P. A. PROJ. NO.	DESCRIPTION	
47850	TAP-1420(010)	CONSTRUCTION	
44910.3.11		CONSTRUCTION	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 5900
V = 35 MPH
FUNC CLASS = MAJOR COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY PROJECT 47850 = 0.834 MILES
TOTAL LENGTH OF PROJECT 47850 = 0.834 MILES

CONTACT: JOSH DEYTON
DIVISION 14 DESIGN CONSTRUCTION ENGINEER

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 15, 2018

JOEL SETZER, PE
PROJECT ENGINEER

JARED PHILPOT
PROJECT DESIGN ENGINEER

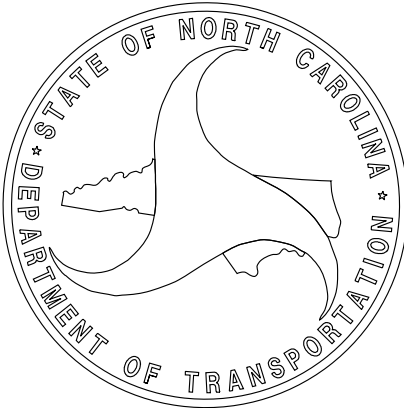
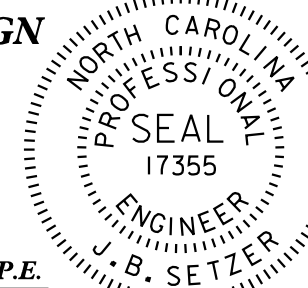
HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

DocuSigned by:
J.B. Setzer
4723/2021 17FE459

SIGNATURE:



INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	PAVEMENT SCHEDULE, TYPICAL SECTIONS
2C-1 THRU 2C-2	CURB RAMPS DETAIL SHEET
RW-1	RIGHT OF WAY CONTROL SHEET
4 THRU 7	PLAN SHEETS
TMP-1 THRU TMP-7	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-5	PAVEMENT MARKING PLANS
EC-1 THRU EC-6	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-2	SIGNING PLANS

GENERAL NOTES

1. THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
2. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.
4. NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

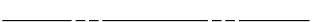
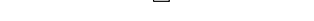
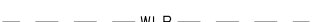
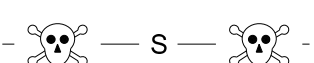
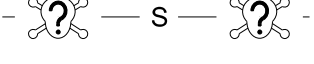
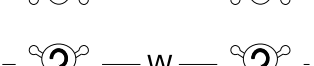
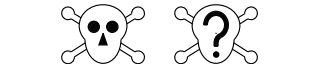
ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

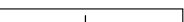
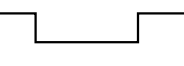
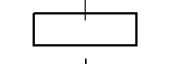
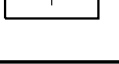
700.05	TYING PROPOSED PAVEMENT TO EXISTING PAVEMENT
848.01	CONCRETE SIDEWALKS
862.01	GUARDRAIL PLACEMENT
862.02	GUARDRAIL INSTALLATION
862.03	STRUCTURE ANCHOR UNITS
1101.01	WORK ZONE TRAFFIC SIGNS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1250.01	PAVEMENT MARKINGS - PAVEMENT MARKER SPACING

CONVENTIONAL PLAN SHEET SYMBOLS

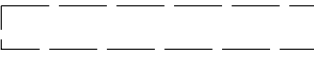
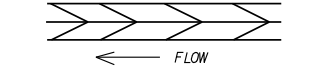
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed 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	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

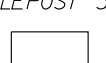
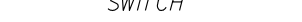
BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

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	

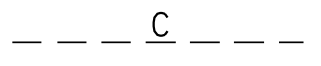
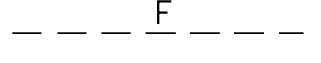
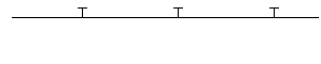
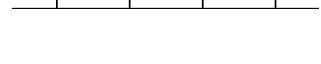
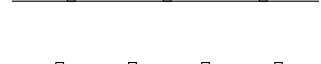
RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete C/A Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage /Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:

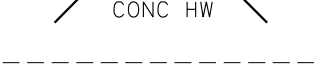
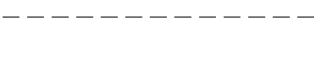
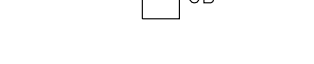
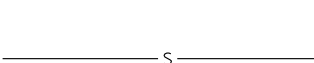
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

Single Tree	
Single Shrub	

Hedge	
Woods Line	
Orchard	
Vineyard	

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:

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	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

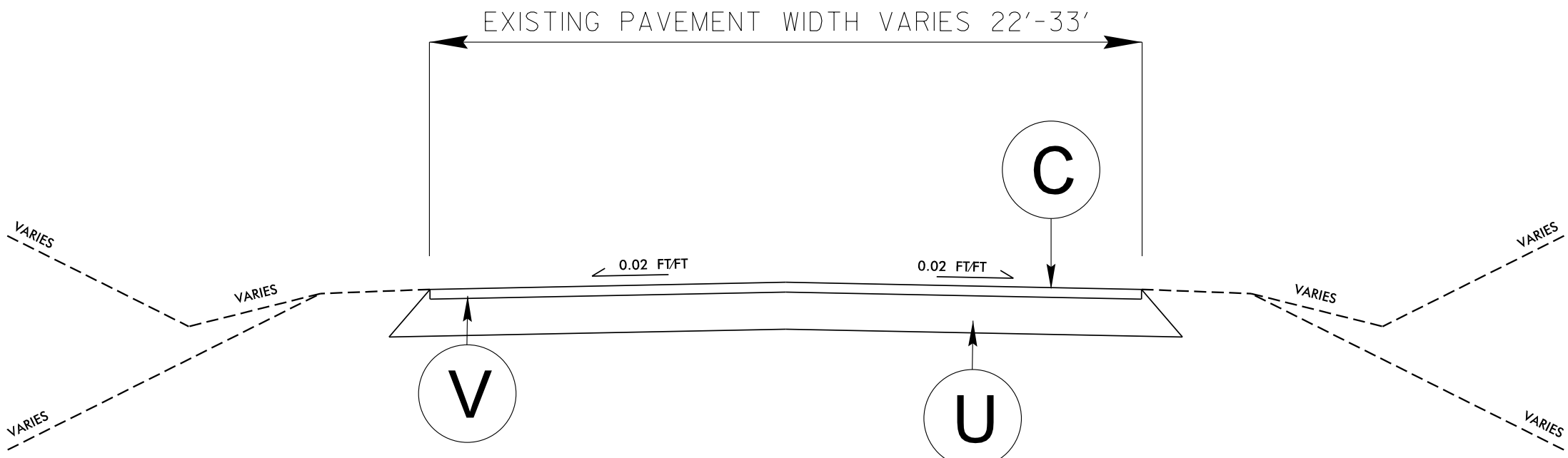
MISCELLANEOUS:

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

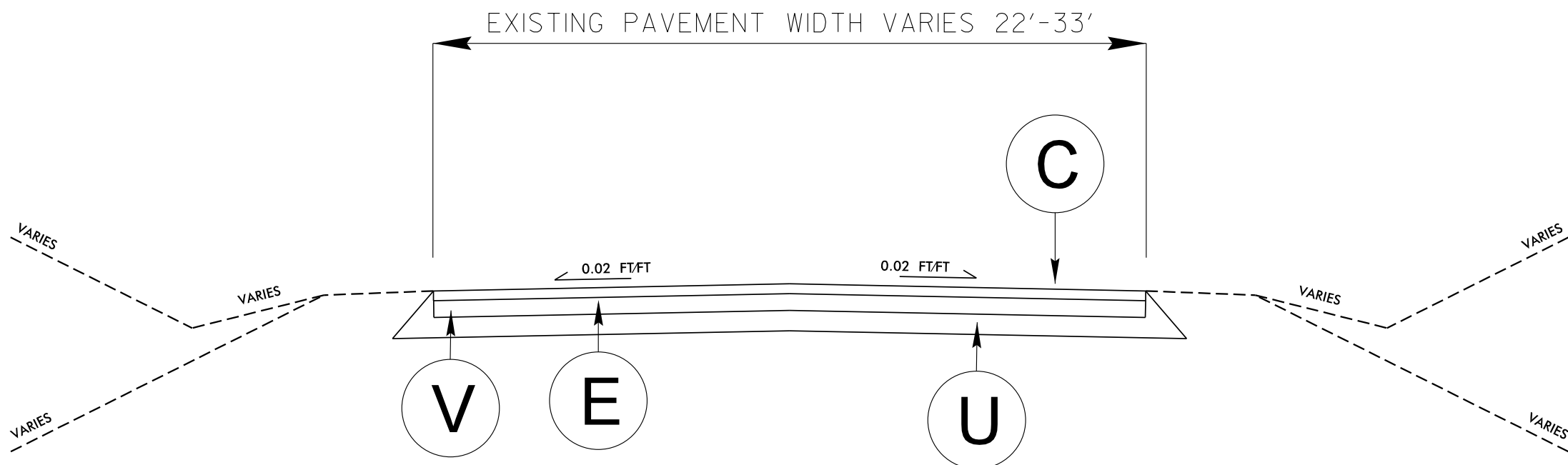
6/2/19

3/13/2019 12:55:07 PM
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User: jsetzer

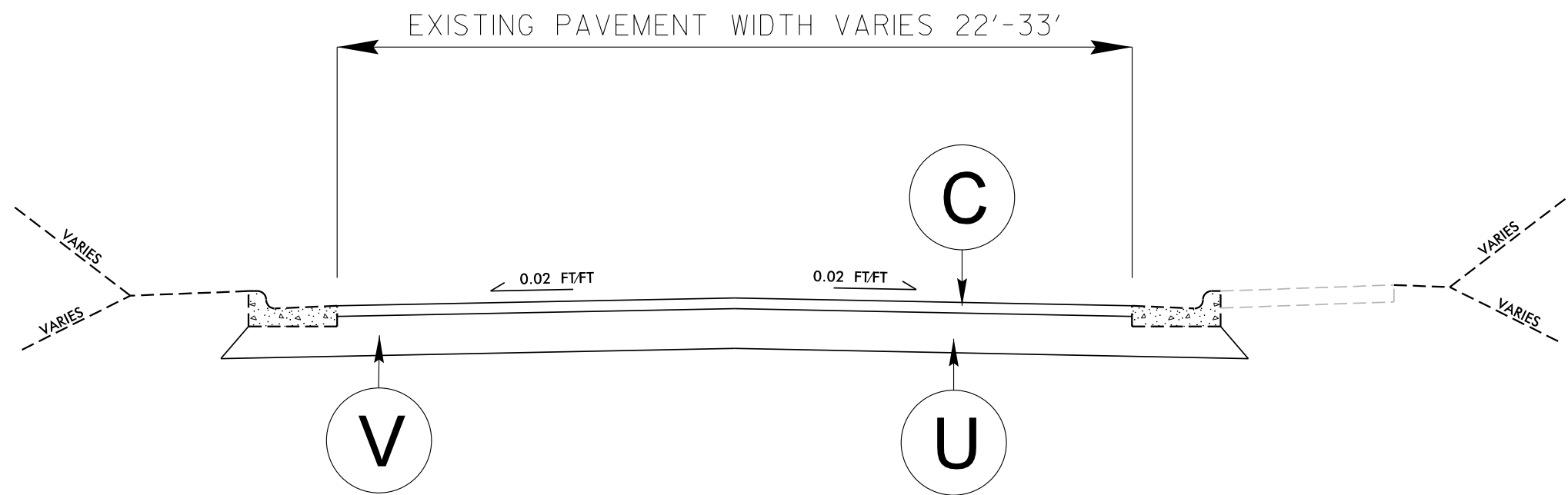
PAVEMENT SCHEDULE	
C	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. SQ. YD. IN EACH OF TWO LAYERS
E	PROP. APPROX. 4" ASPHALT CONCRETE SURFACE COURSE. TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
S	4" CONCRETE SIDEWALK
U	EXISTING PAVEMENT
J	PROPOSED 4" AGGREGATE BASE COURSE
T	EARTH MATERIAL
V	VARIABLE MILLING PAVEMENT, 3" TO 7"



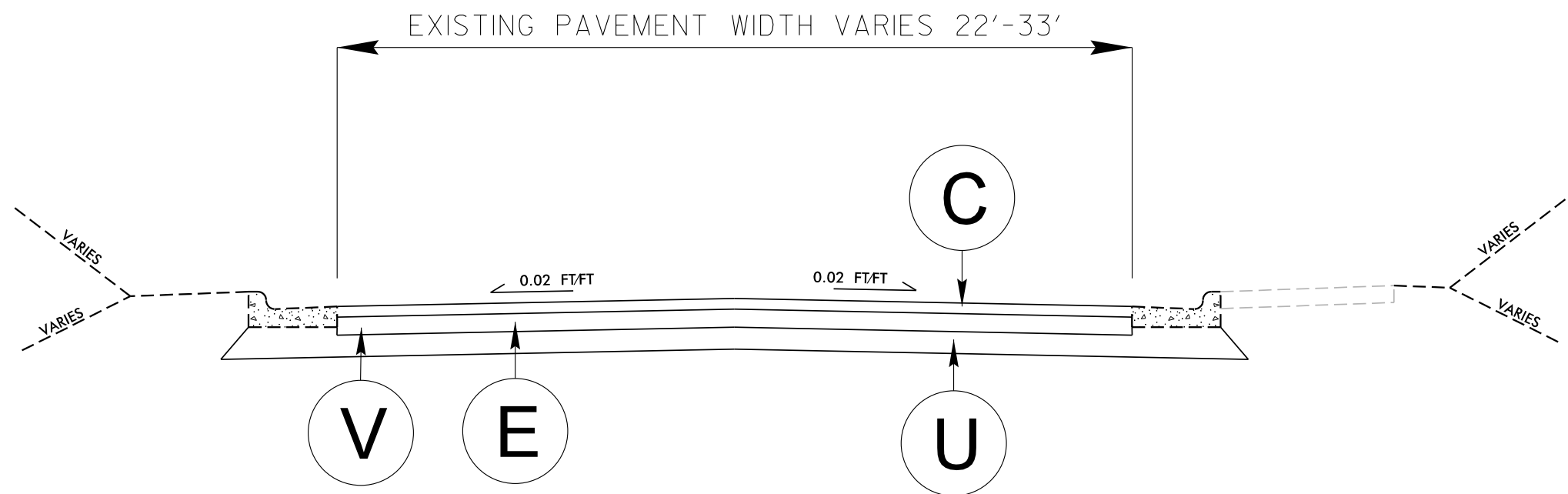
TYPICAL SECTION NO. 1
-EL- STA. 14+74.88 TO 16+39.19



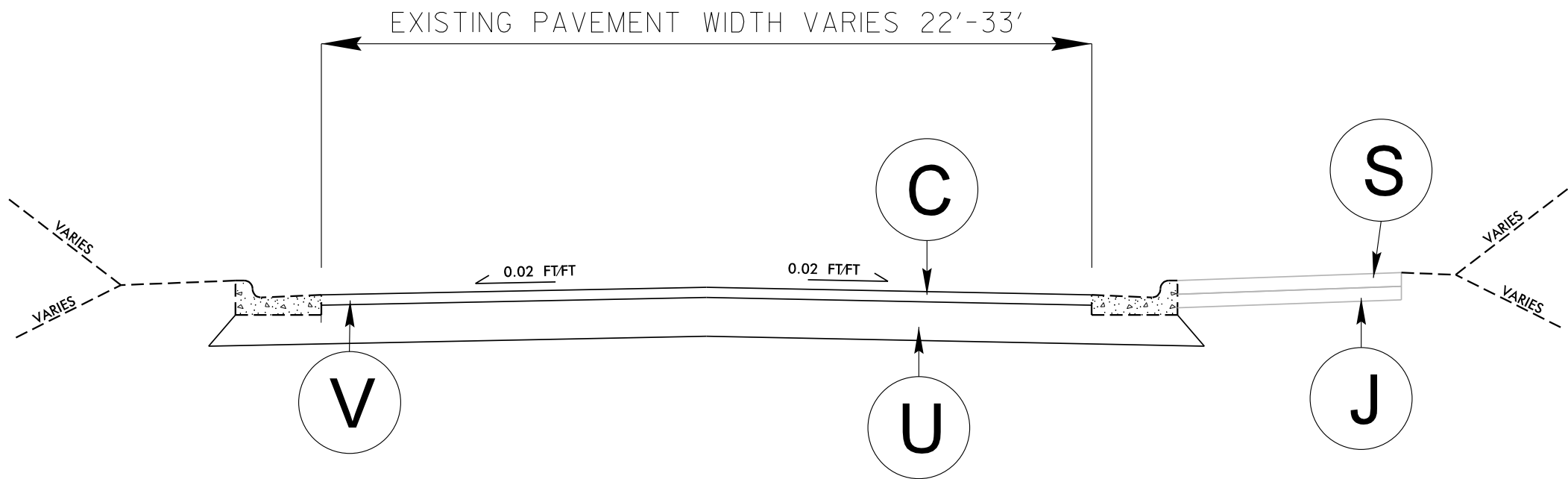
TYPICAL SECTION NO. 2
-EL- STA. 16+39.19 TO 17+66.00



TYPICAL SECTION NO. 3
-EL- STA. 18+39.19 TO STA. 21+24.33
-EL- STA. 26+67.83 TO STA. 33+69.15
-EL- STA. 35+69.15 TO STA. 41+92.00



TYPICAL SECTION NO. 4
-EL- STA. 17+66.00 TO STA. 18+39.19
-EL- STA. 26+39.35 TO STA. 26+67.83
-EL- STA. 33+69.15 TO STA. 35+69.15



TYPICAL SECTION NO. 5
-EL- STA. 21+24.33 TO STA. 24+67.83
-EL- STA. 17+01.84 TO STA. 17+82.47

PROJECT REFERENCE NO.	SHEET NO.
47850	2A-1

ROADWAY DESIGN
ENGINEER

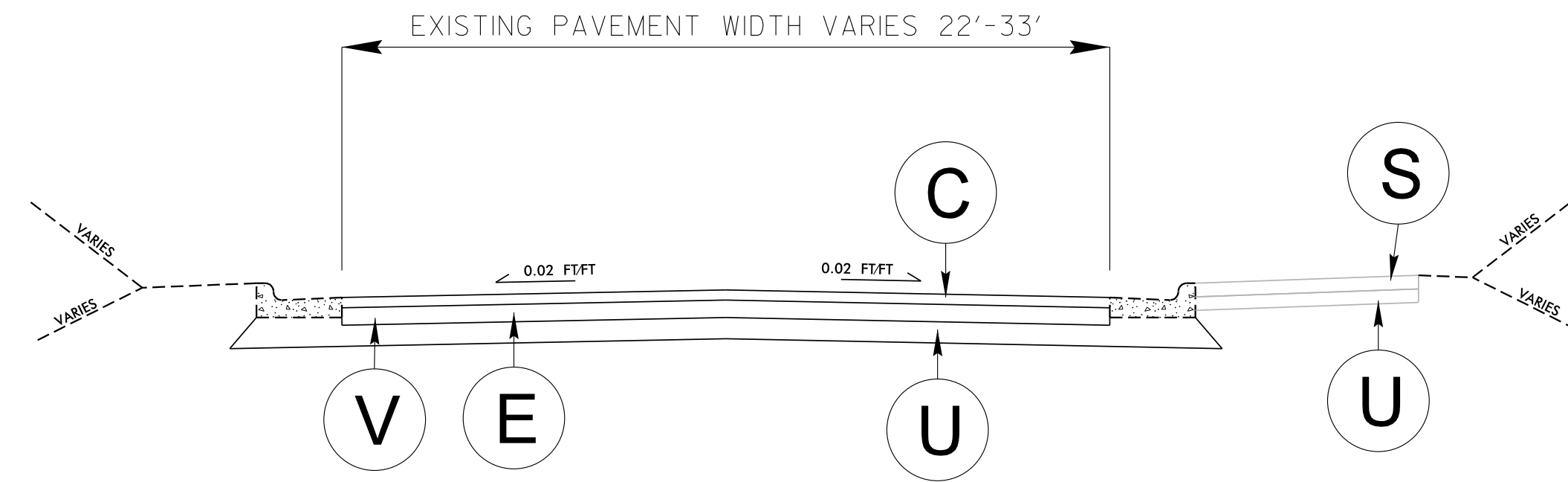
DocuSigned by:
J.B. Setzer
5F00A1CE17FE459

PROFESSIONAL
SEAL
17355
ENGINEER
J.B. SETZER

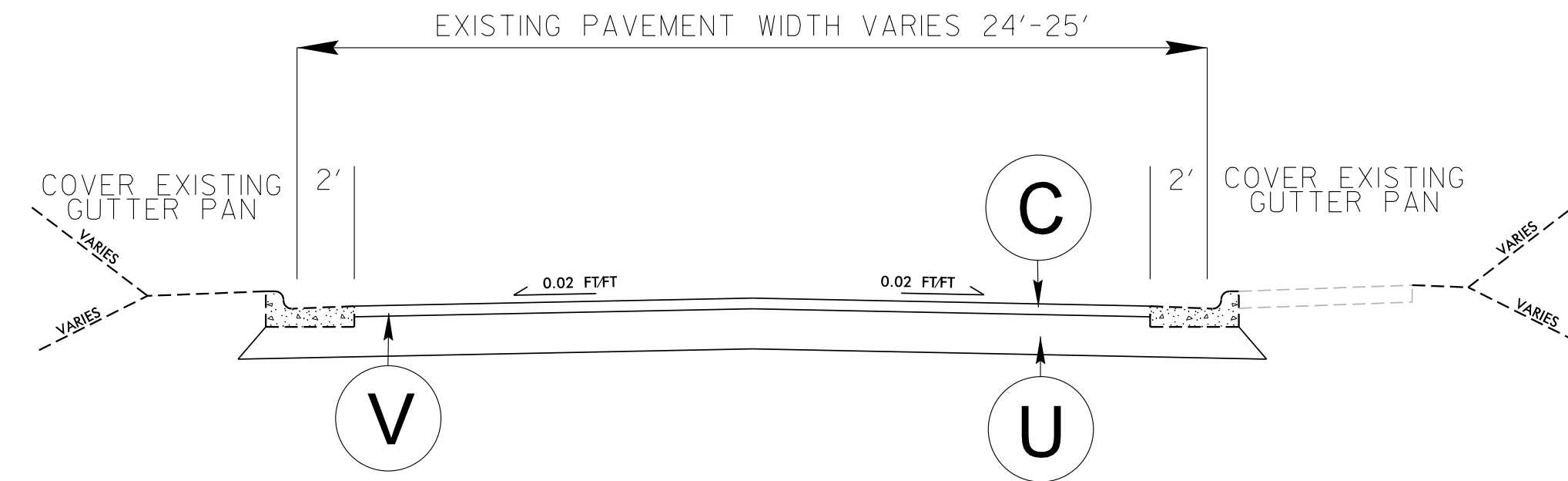
3/13/2019

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UNLESS ALL SIGNATURES COMPLETED

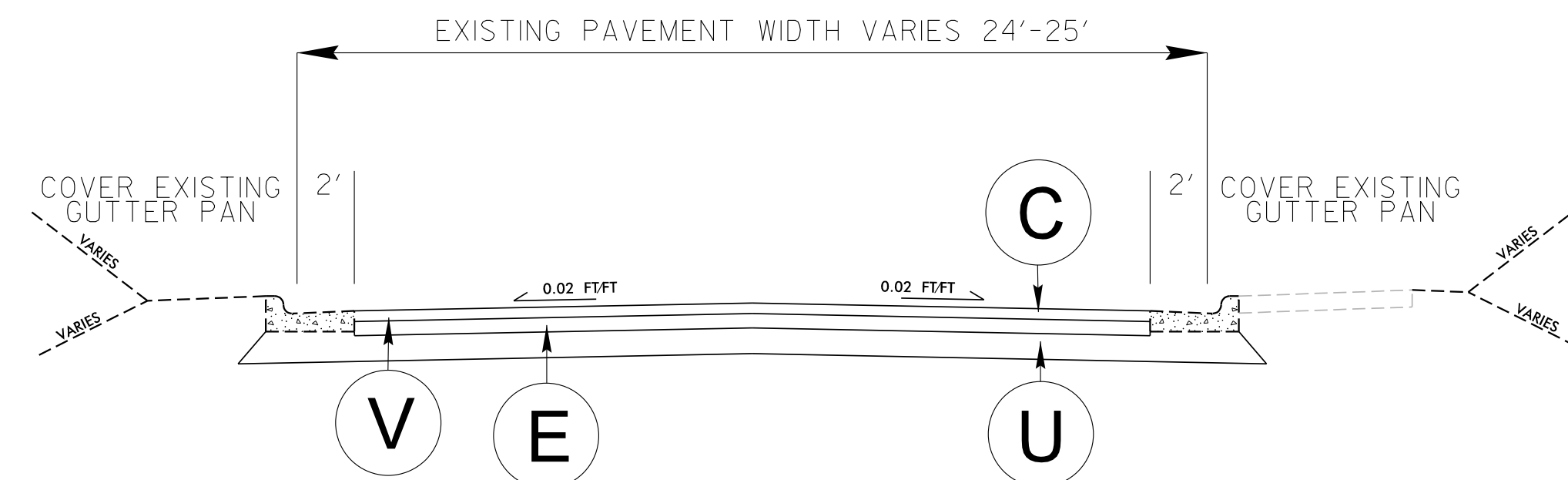
C	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. SQ. YD. IN EACH OF TWO LAYERS
E	PROP. APPROX. 4" ASPHALT CONCRETE SURFACE COURSE. TYPE B25.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
S	4" CONCRETE SIDEWALK
U	EXISTING PAVEMENT
J	PROPOSED 4" AGGREGATE BASE COURSE
T	EARTH MATERIAL
V	VARIABLE MILLING PAVEMENT, 3" TO 7"



TYPICAL SECTION NO. 6
-EL- STA. 24+67.83 TO STA. 26+39.35



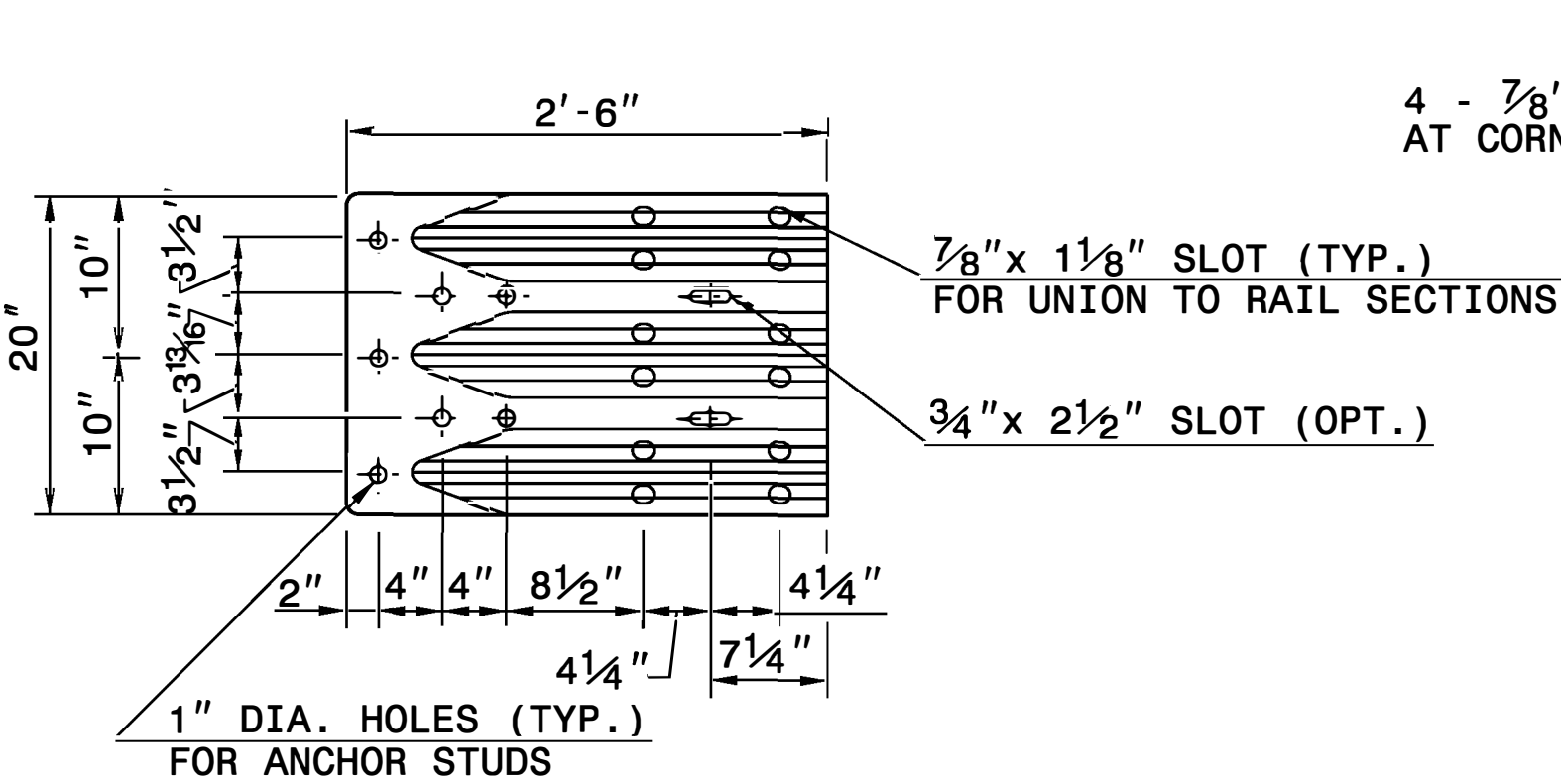
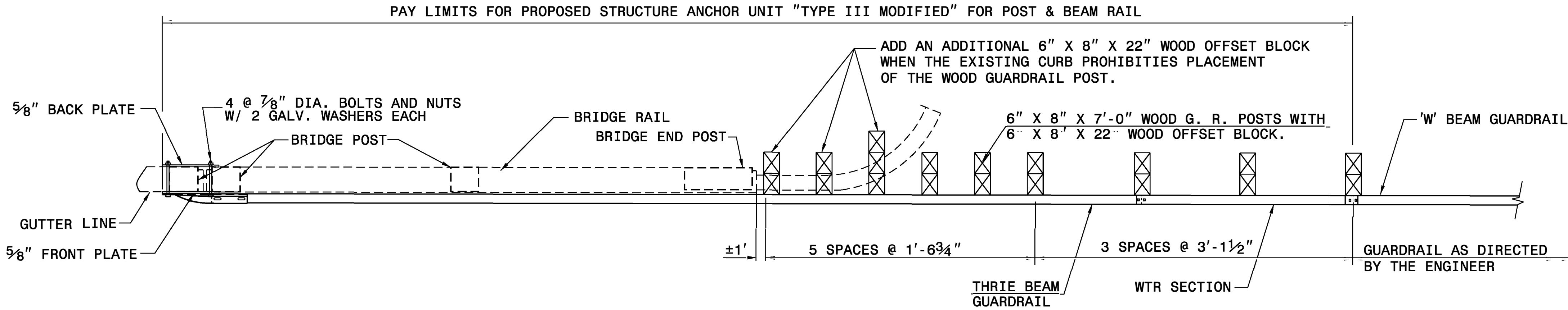
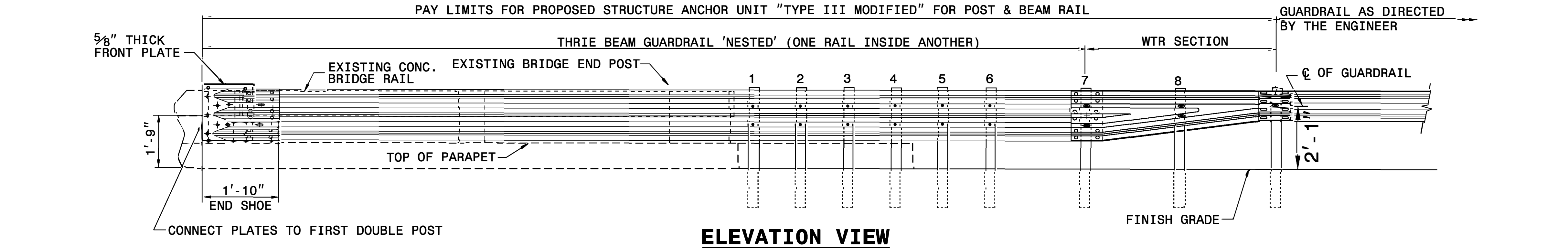
TYPICAL SECTION NO. 7
 -EL- STA. 41+92.00 TO 47+98.19
 -EL- STA. 49+98.19 TO 56+50.00



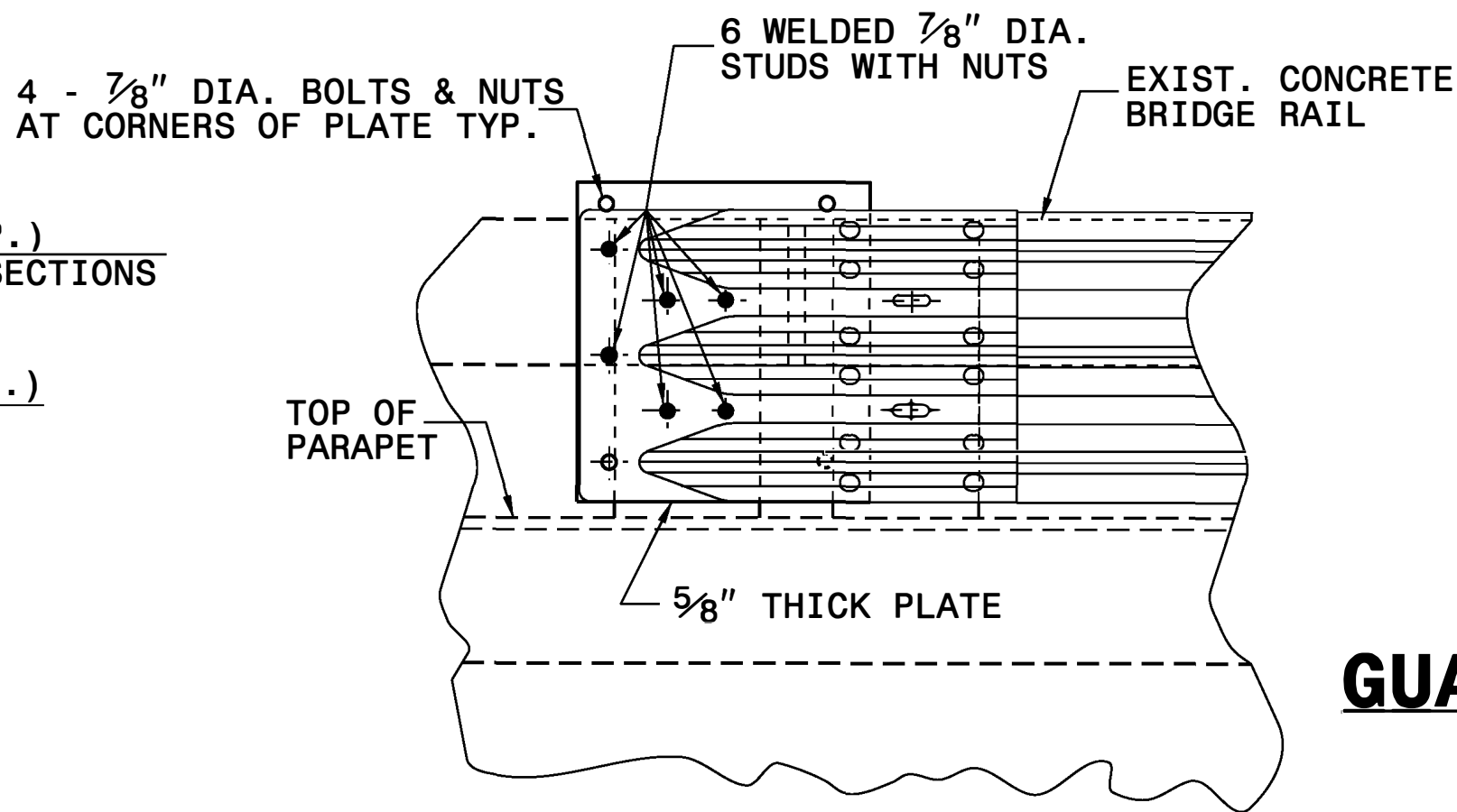
TYPICAL SECTION NO. 8
-EL- STA. 47+98.19 TO 49+98.19

PROJECT REFERENCE NO.	SHEET NO.
47850	2A-2
ROADWAY DESIGN ENGINEER  DocuSigned by: J.B. Setzer #F60A1CE17FE459... 3/13/2019	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROJECT REFERENCE NO.	SHEET NO.
47850	2B-1

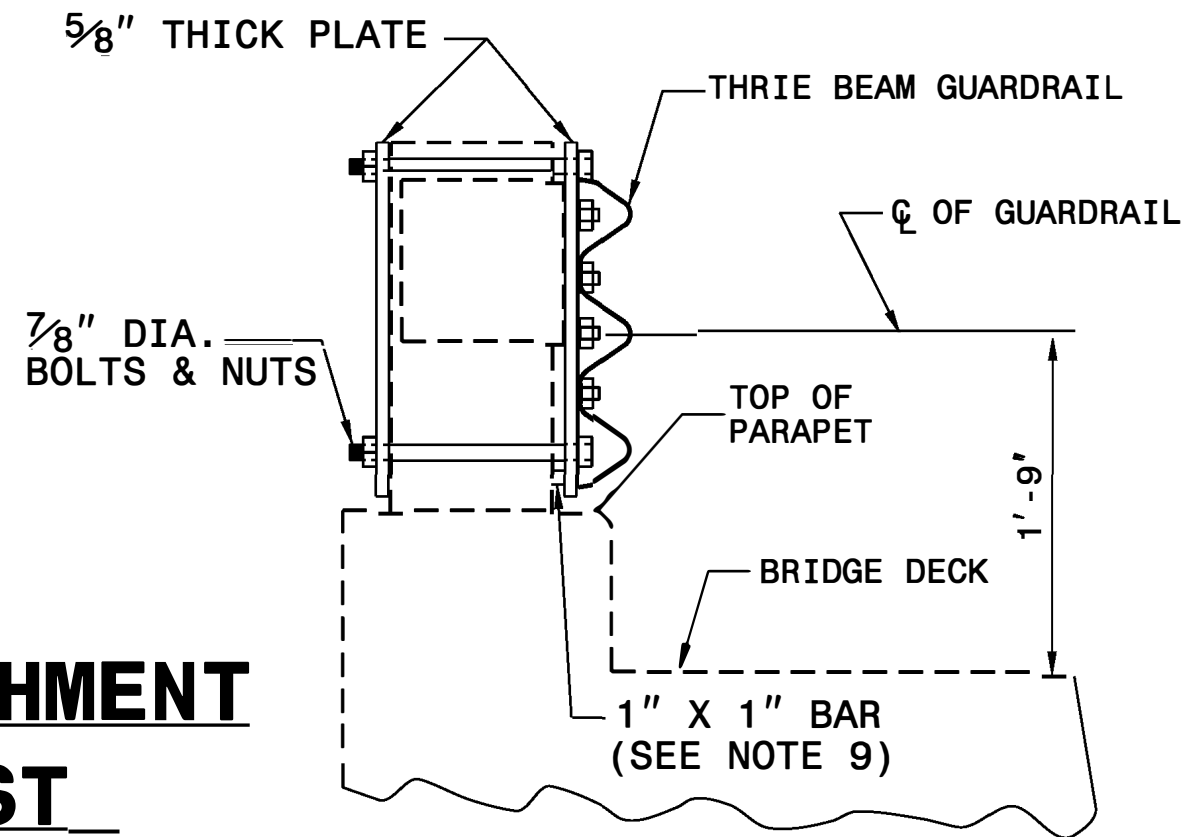


END SHOE



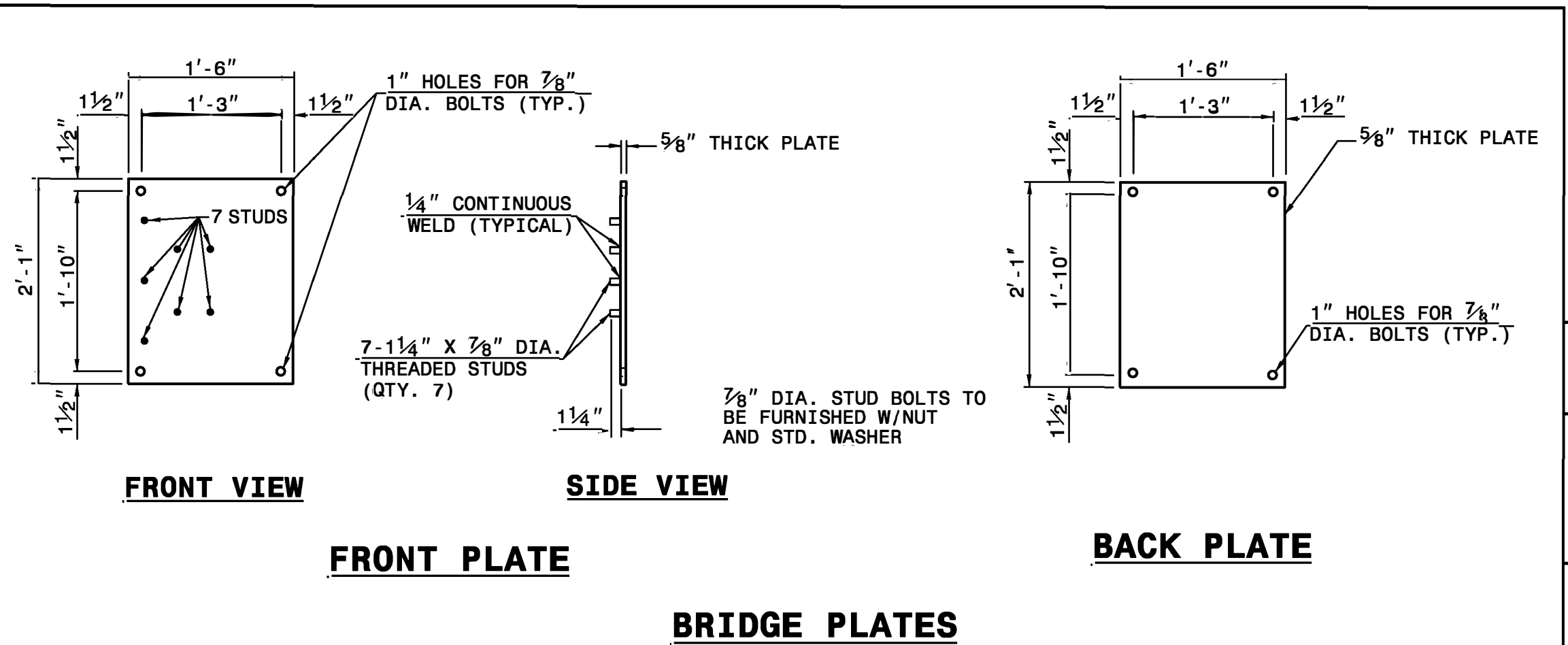
ELEVATION VIEW

GUARDRAIL ATTACHMENT TO BRIDGE POST



SECTION VIEW

- GENERAL NOTES:
1. USE NUTS, BOLTS, AND WASHERS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-307 AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
 2. TAP NUTS FOR THE 7/8" DIA. STUDS AND BOLTS AFTER GALVANIZING SEE A.S.T.M. A-563.
 3. USE PLATES AND TUBES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
 4. ADDITIONAL FIELD HOLES MAY BE DRILLED IN STEEL RAIL AS DIRECTED BY THE ENGINEER.
 5. INSTALL FACE OF GUARDRAIL AS NEAR AS POSSIBLE TO PLUMB WITH THE PARAPET FACE AT BRIDGE END POST SPACER TUBE LOCATION BY USING STANDARD OR ALTERED SPACER TUBES OR A COMBINATION THEREOF OR AS DIRECTED BY THE ENGINEER. FOR VERY SMALL PARAPET WIDTHS, GUARDRAIL MAY BE INSTALLED AGAINST BRIDGE RAIL WITHOUT SPACER TUBES.
 6. DO NOT DRILL BRIDGE RAIL IN ORDER TO INSTALL GUARDRAIL ANCHOR UNIT.
 7. USE THIS DETAIL ONLY FOR BRIGES WITH POST AND BEAM TYPE RAIL.
 8. ATTACH 1" X 1" BAR AND THREADED STUDS TO PLATE WITH 1/4" WELDS ALL AROUND.
 9. 1" X 1" BAR MAY NOT BE NEEDED ON BRIDGE RAILS WHERE FACE OF RAIL DOES NOT PROJECT BEYOND FACE OF POST.
 10. PROVIDE SHOP DRAWINGS OF THE PLATES TO THE ENGINEER FOR APPROVAL BEFORE FABRICATING THE PLATES.
 11. LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
 12. SEE ROADWAY STARDARD DRAWING 862.03 SHEET 3 FOR ADDITIONAL INFORMATION ON THE TYPE III ANCHOR UNIT



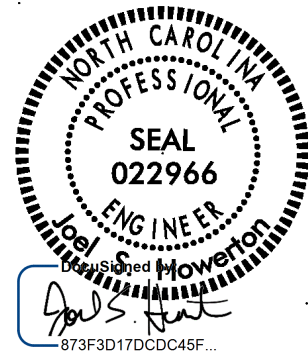
FRONT VIEW

SIDE VIEW

FRONT PLATE

BACK PLATE

BRIDGE PLATES



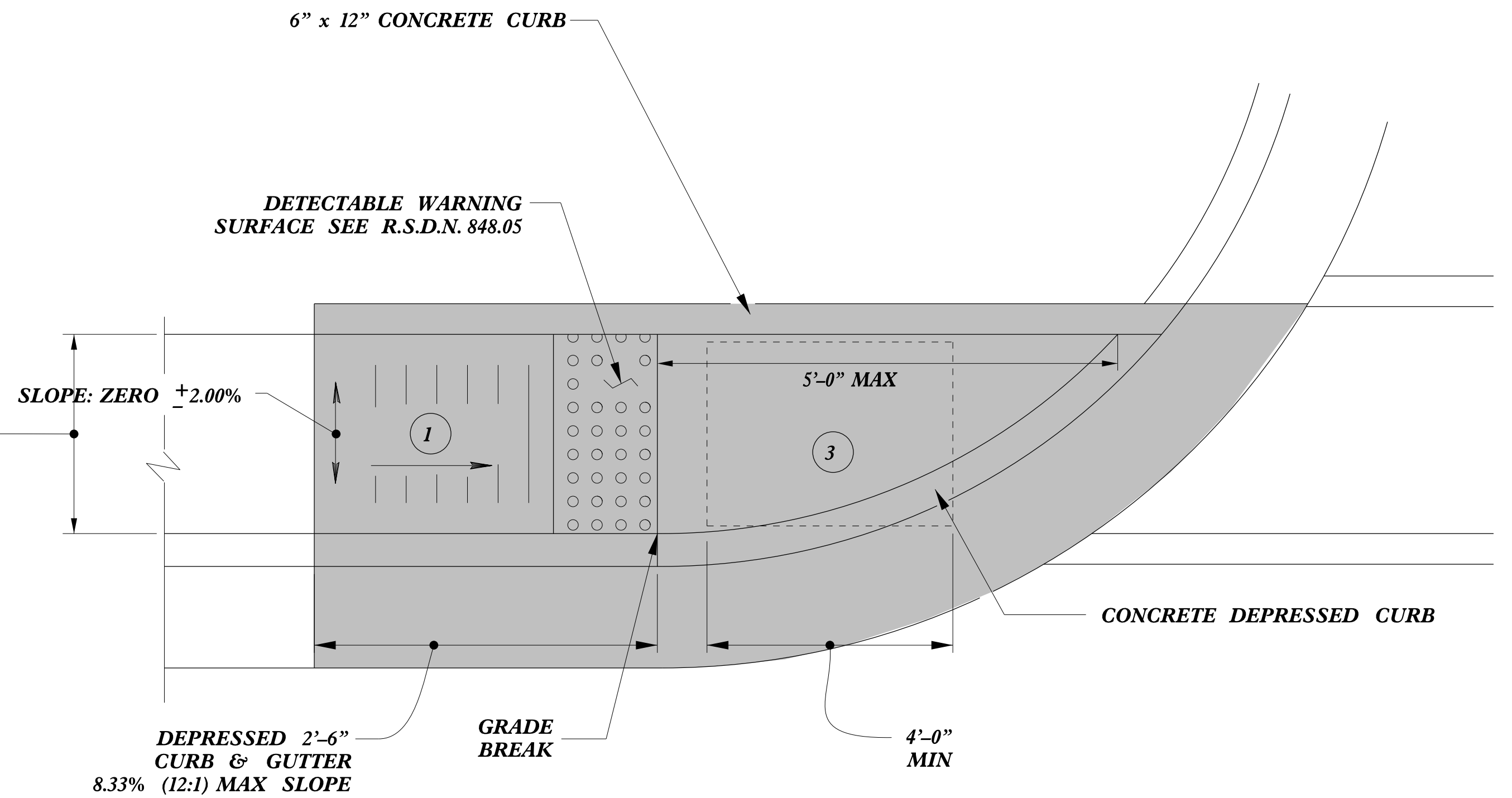
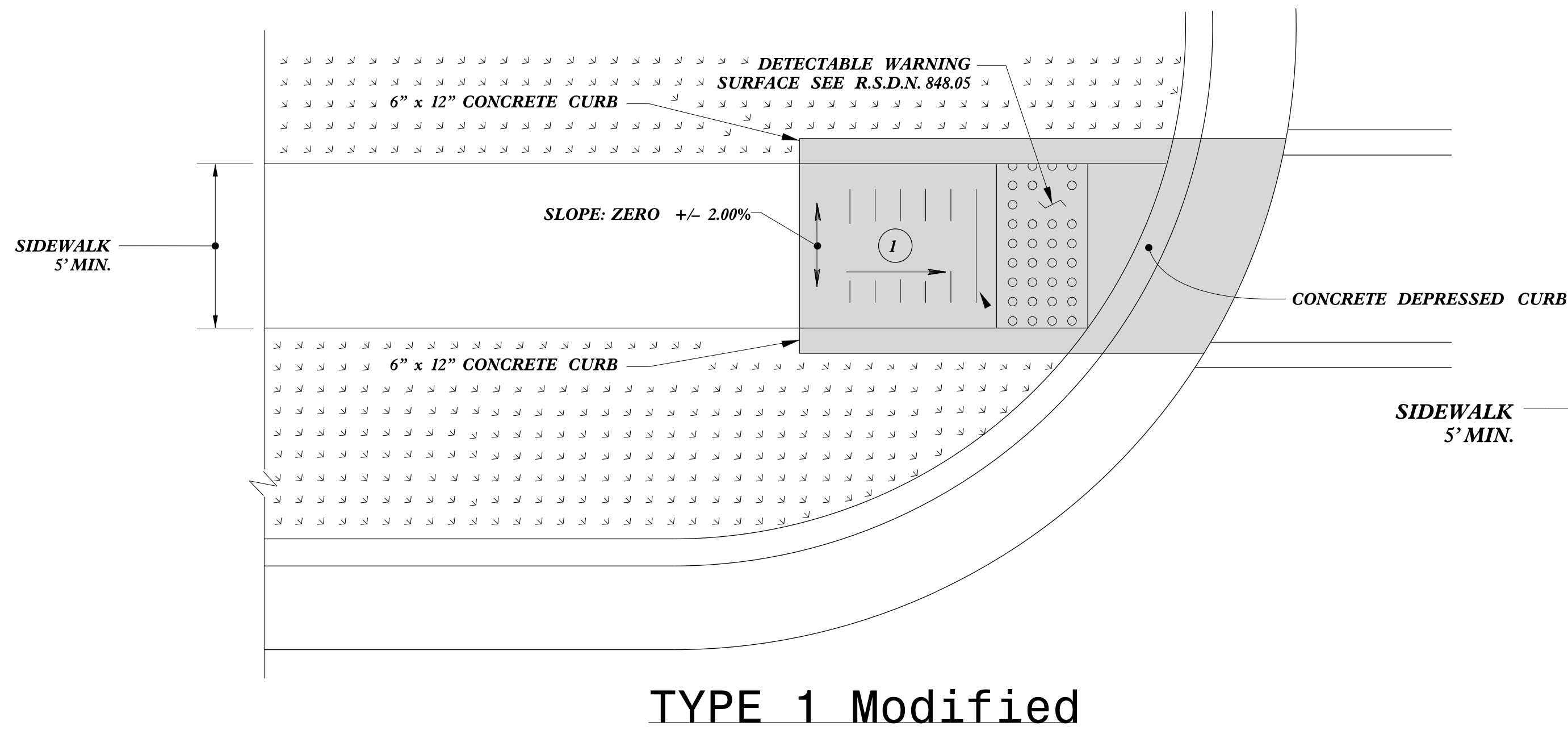
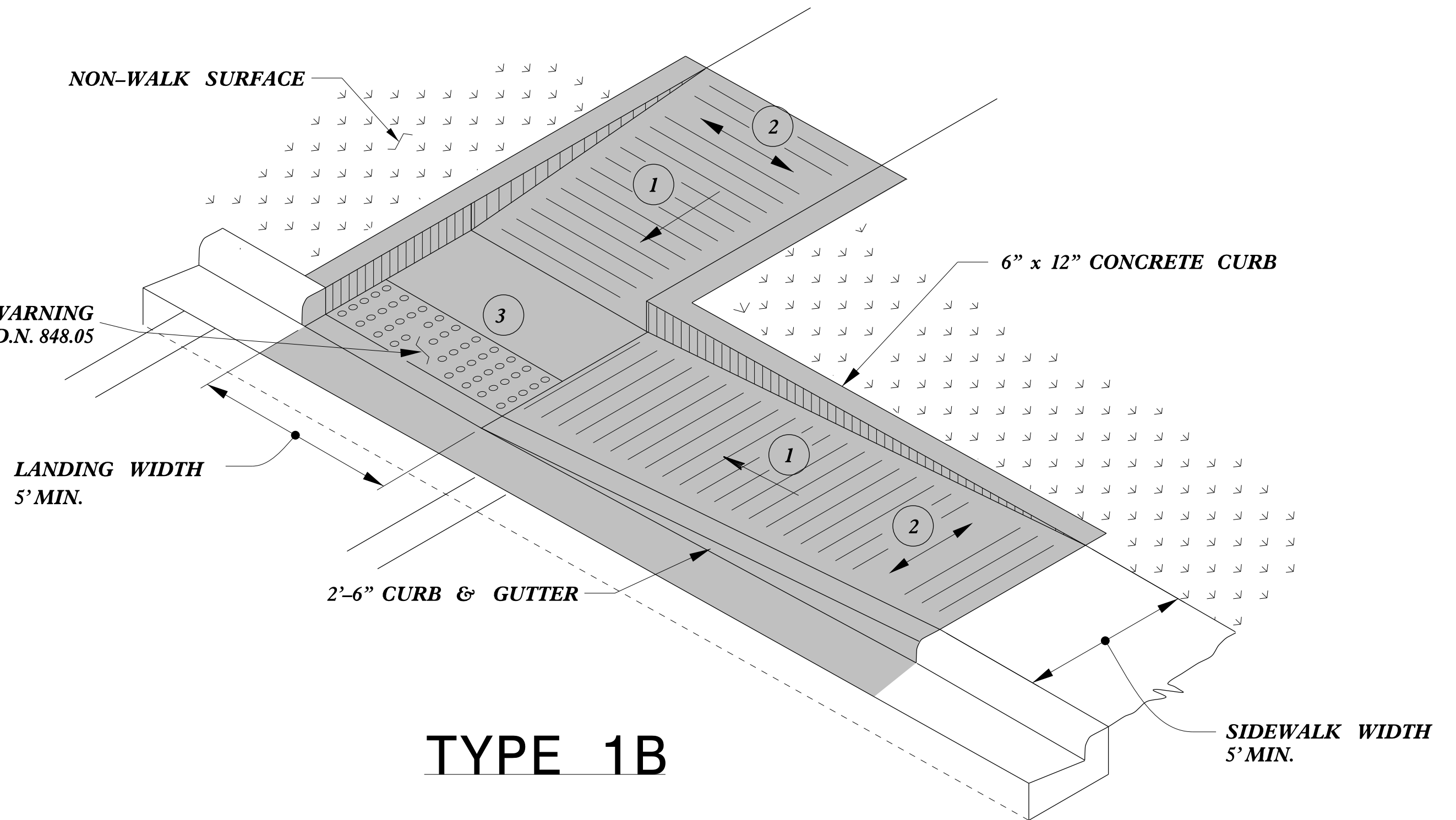
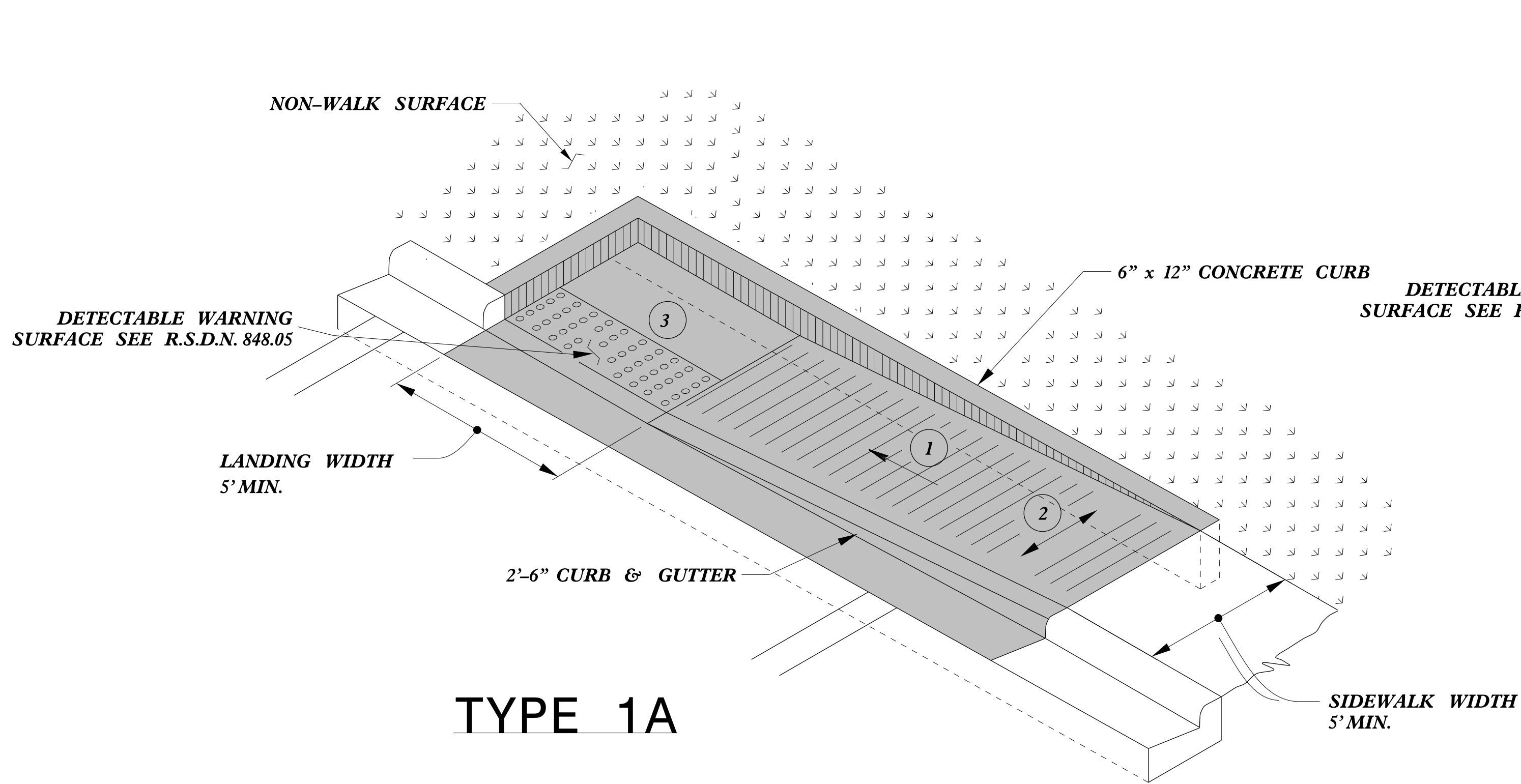
3/13/2019

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

**STRUCTURE ANCHOR UNIT
TYPE III MODIFIED**

ORIGINAL BY: C.O. CUEVAS DATE: 12-00
MODIFIED BY: JS HOWERTON DATE: 01-18
CHECKED BY: DATE:
FILE SPEC.: \usr\details\stand\bp111.dgn



- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

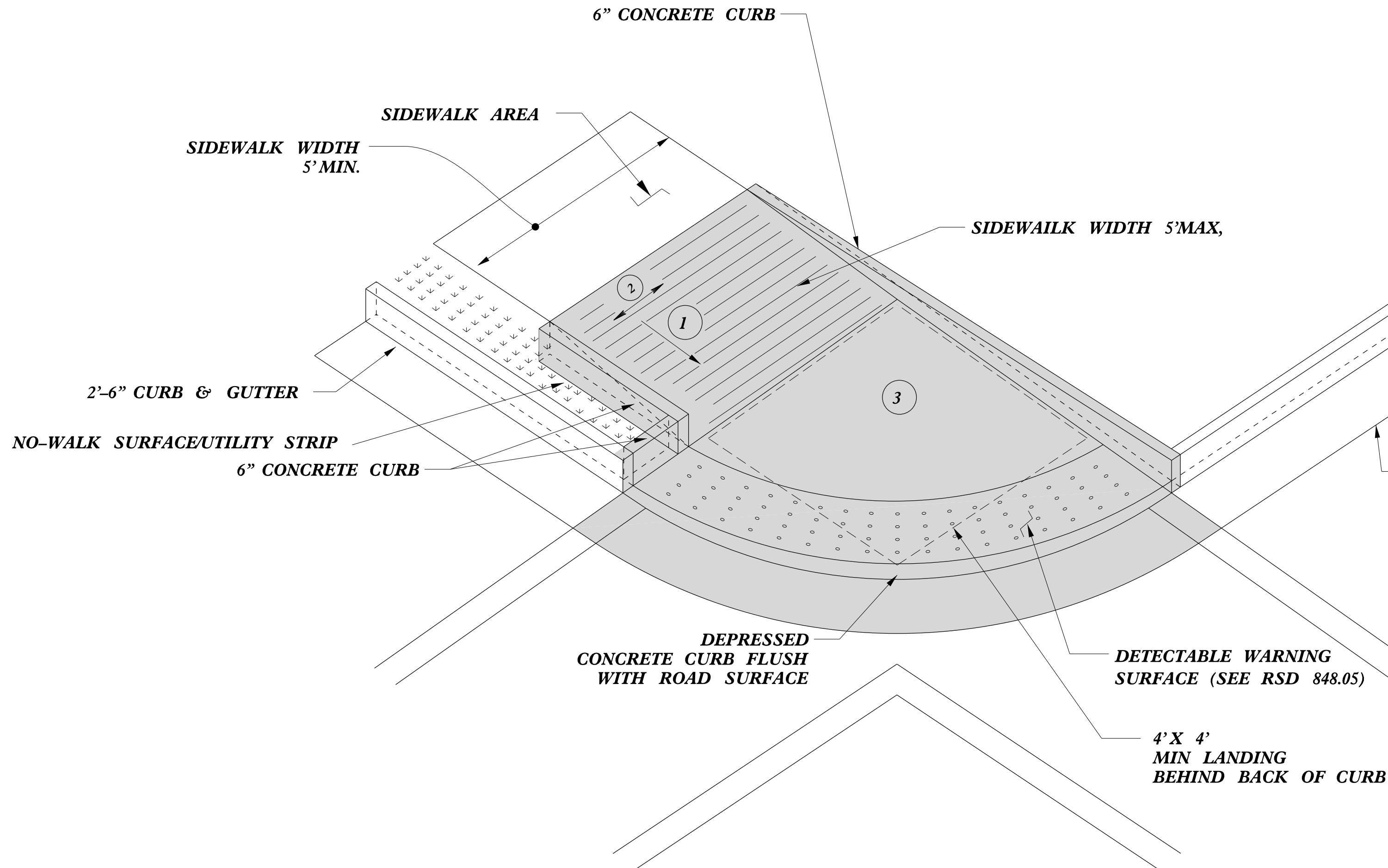
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES



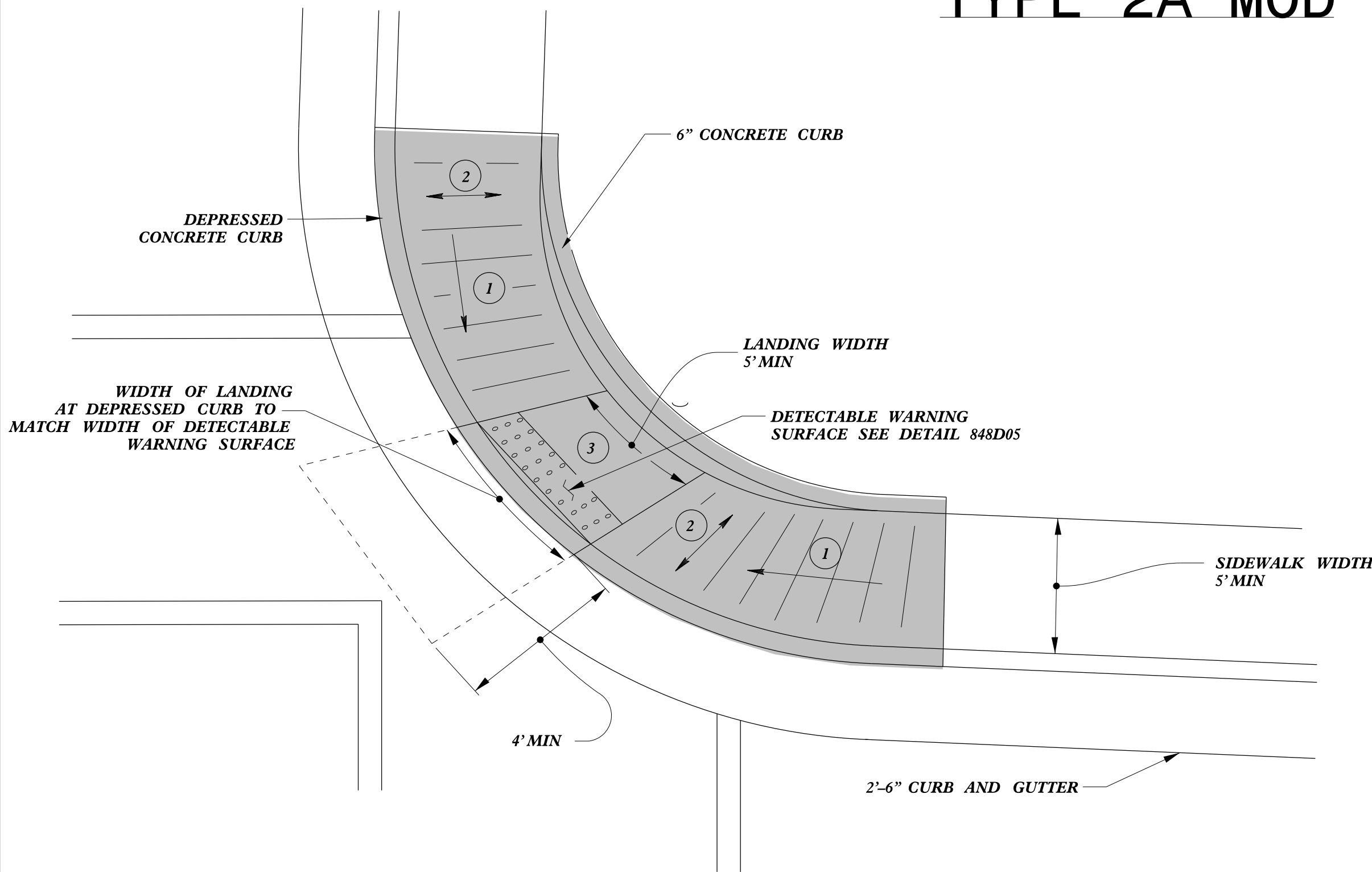
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119	
CURB RAMPS Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
47850	2C-2

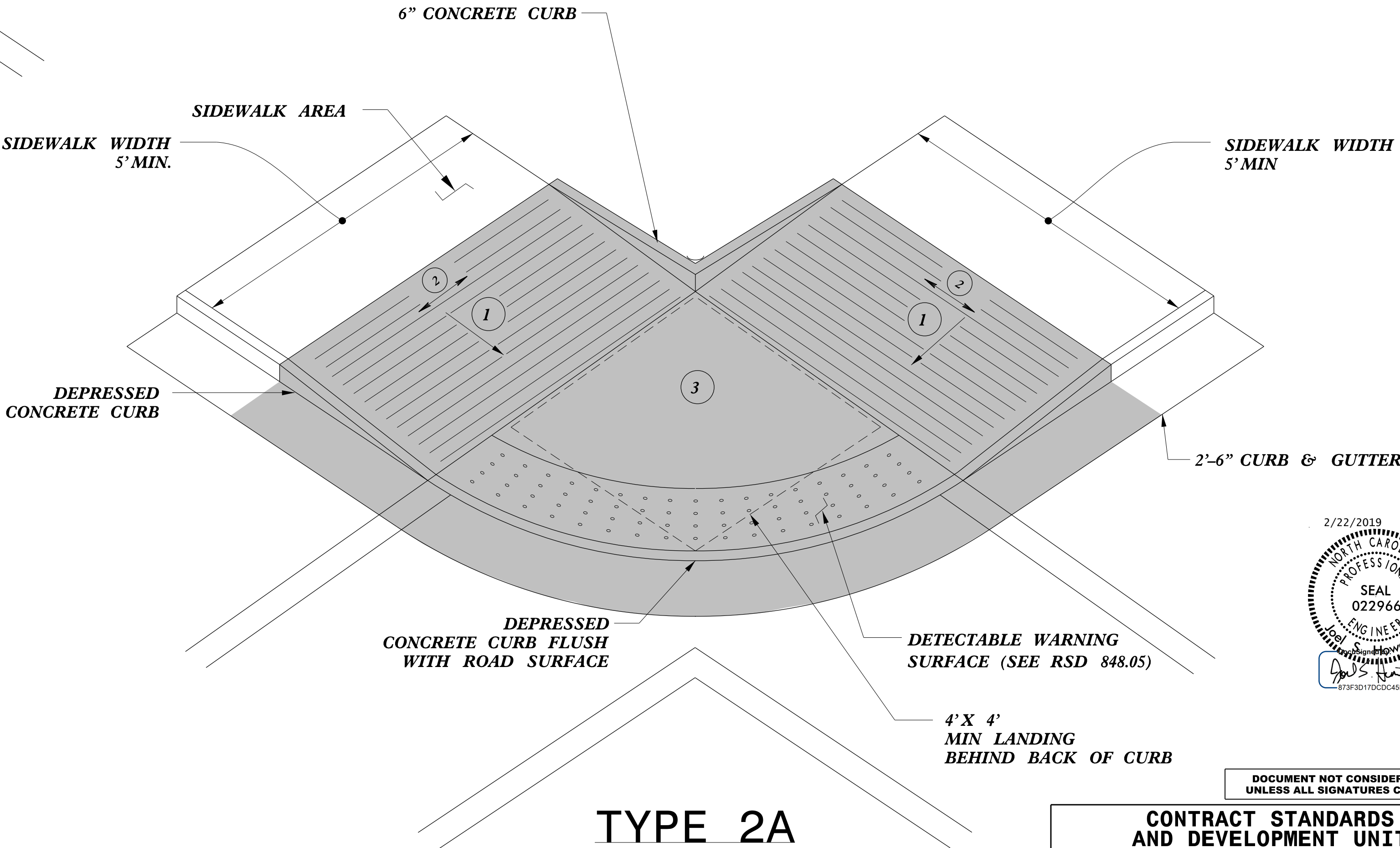


TYPE 2A MOD



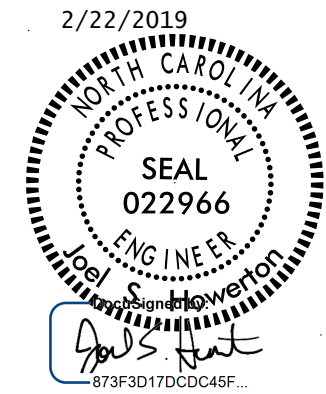
TYPE 2B

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



TYPE 2A

PAY LIMITS FOR 1 CURB RAMP



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

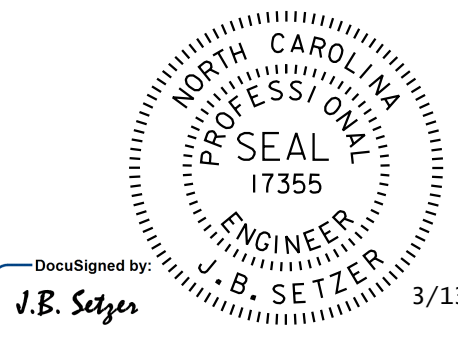
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

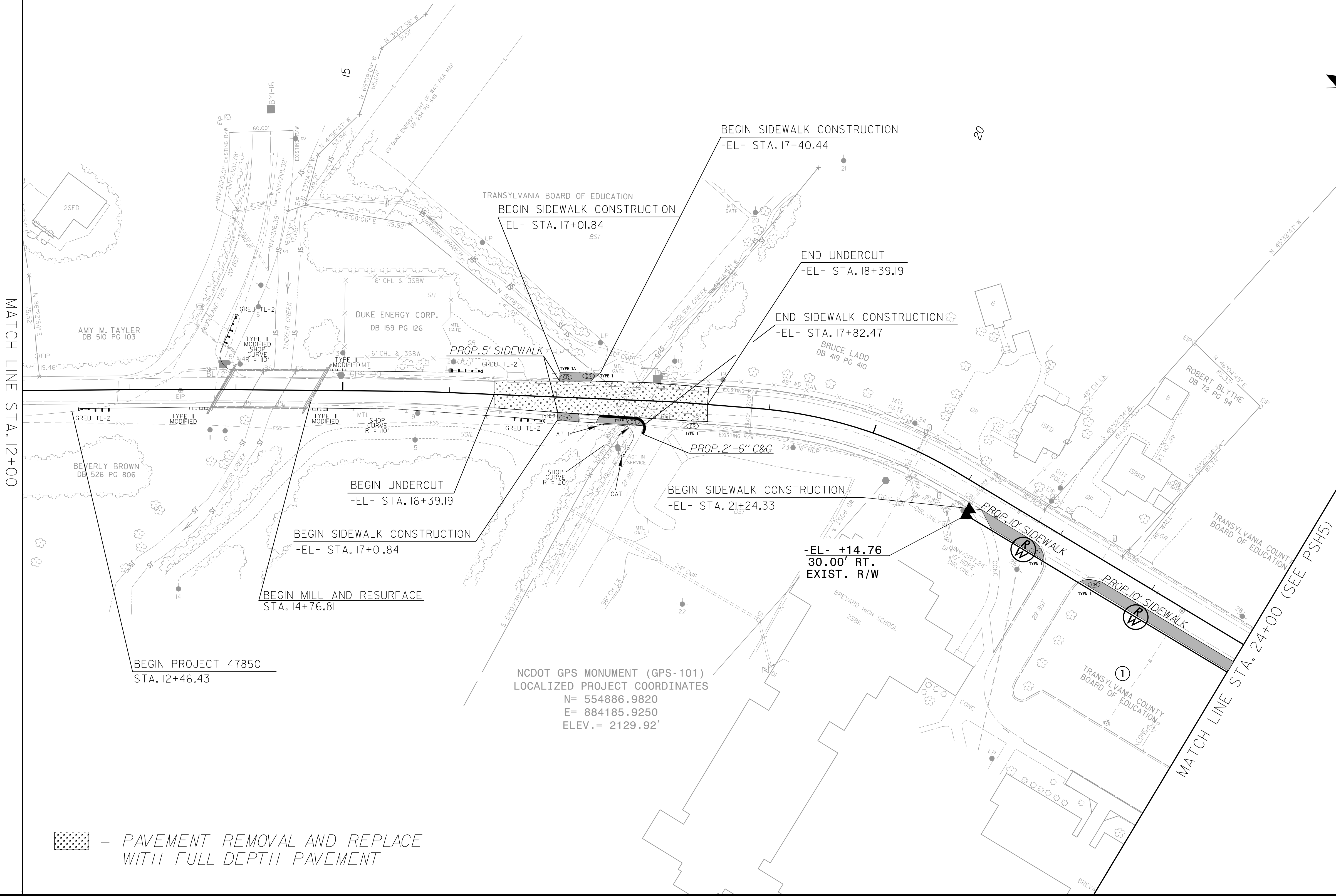
<i>PARCEL NO.1</i> <i>BEVERLY BROWN</i> <i>DB 526 PG 806</i>		
TYPE OF EASEMENT	AREA	
	SQ. FT.	ACRES
PROPOSED RIGHT OF WAY	8,258.40'	0.1129
TOTAL	8,258.40'	0.1129

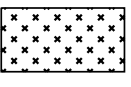
ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
-EL -	21+14.76	23.36	554964.2089	884216.0319
-EL -	21+14.76	30.00	554960.9177	884221.0548
-EL -	26+44.50	12.00	555416.9571	884491.4660
-EL -	26+44.50	30.00	555407.0835	884506.5167

5/14/99

SEE DETAIL SHEET 2B-1 FOR
TYPE III MODIFIED ANCHOR UNIT

PROJECT REFERENCE NO.	SHEET NO.
47850	4
ROADWAY DESIGN ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

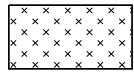


 = PAVEMENT REMOVAL AND REPLACE
WITH FULL DEPTH PAVEMENT

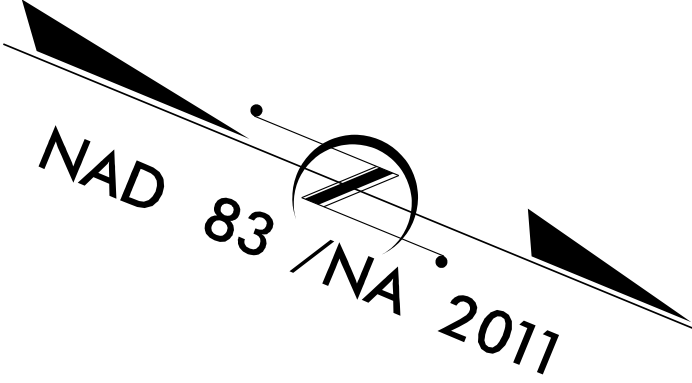
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3/13/2019 4:06:14 PM
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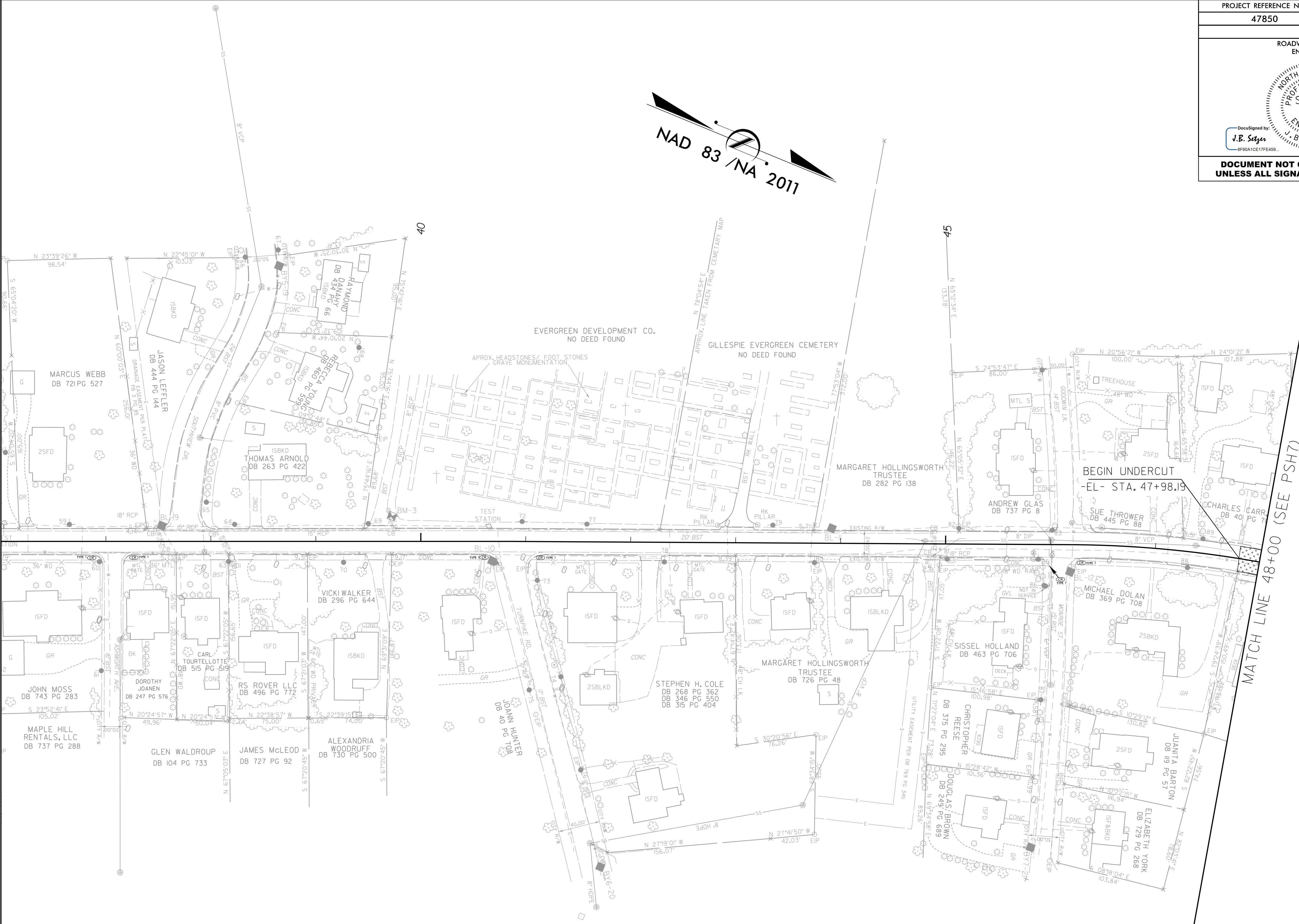
MATCH LINE 36+00 (SEE PSH5)



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WITH FULL DEPTH PAVEMENT

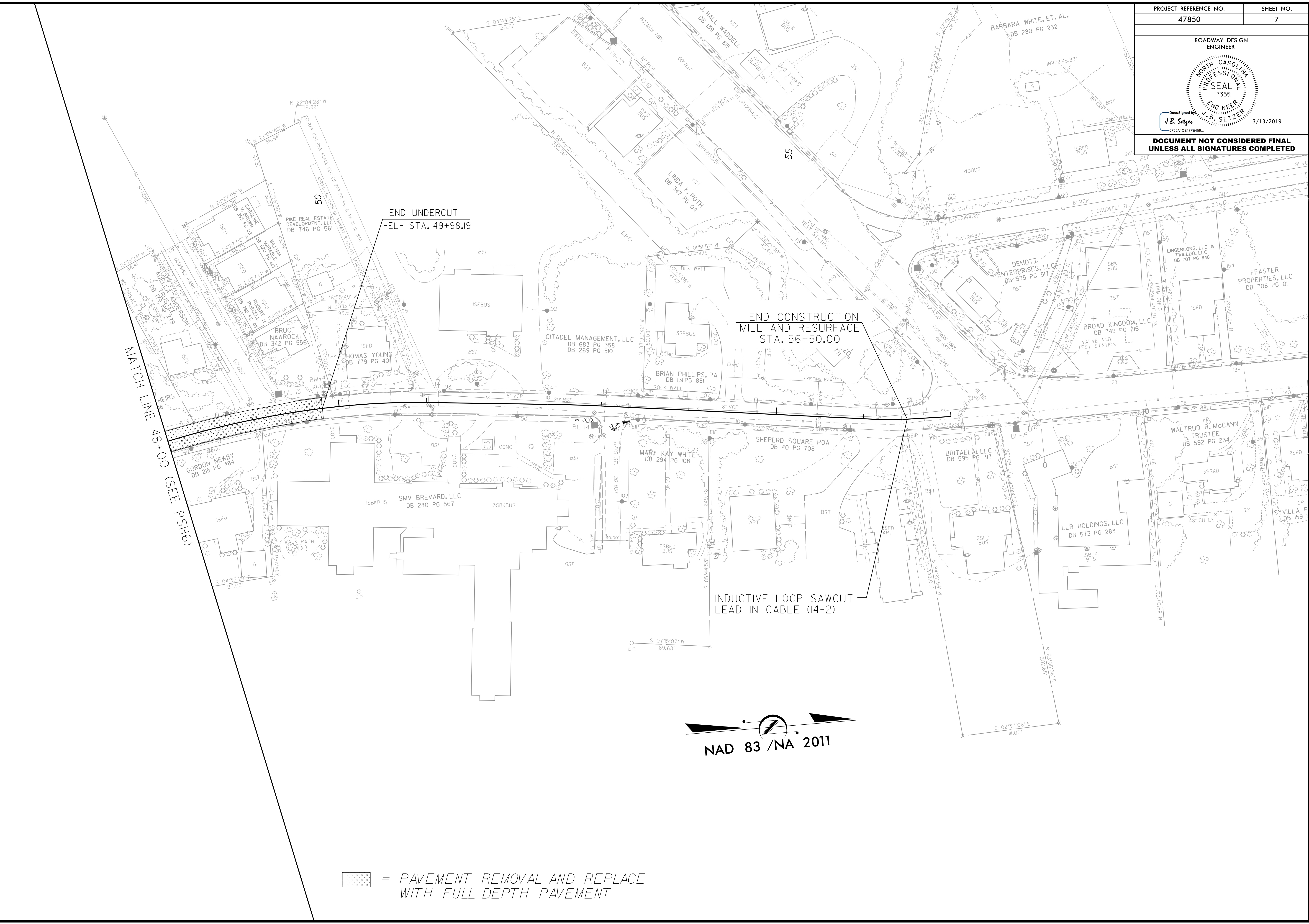


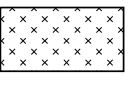
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47850	6
ROADWAY DESIGN ENGINEER	
	
3/13/2019	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE 48+00 (SEE PSH7)

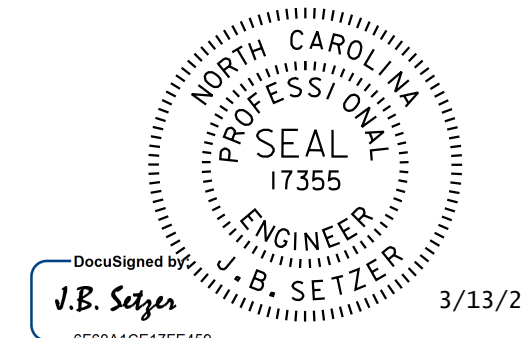
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115621001001



 = PAVEMENT REMOVAL AND REPLACE WITH FULL DEPTH PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
47850	7

ROADWAY DESIGN ENGINEER



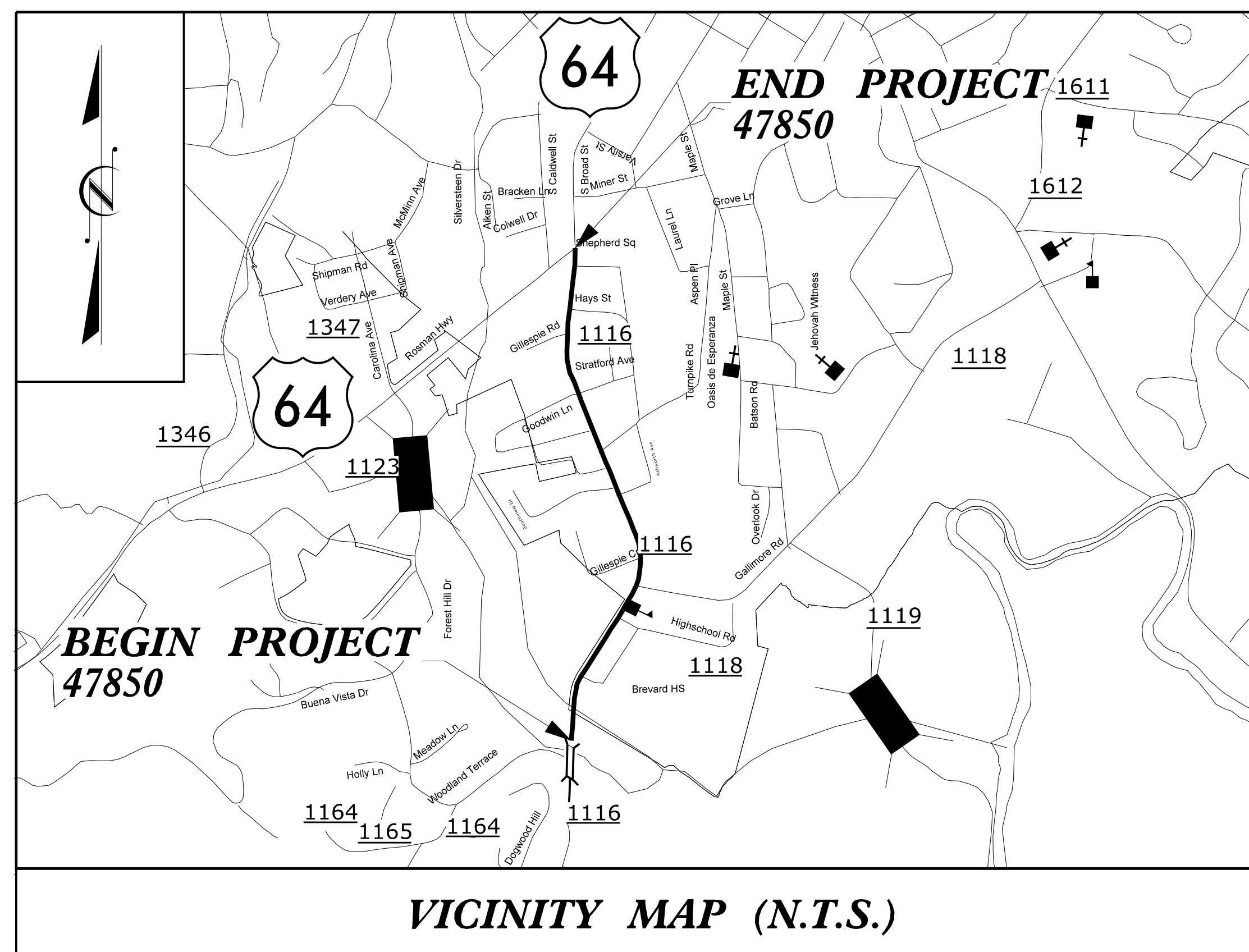
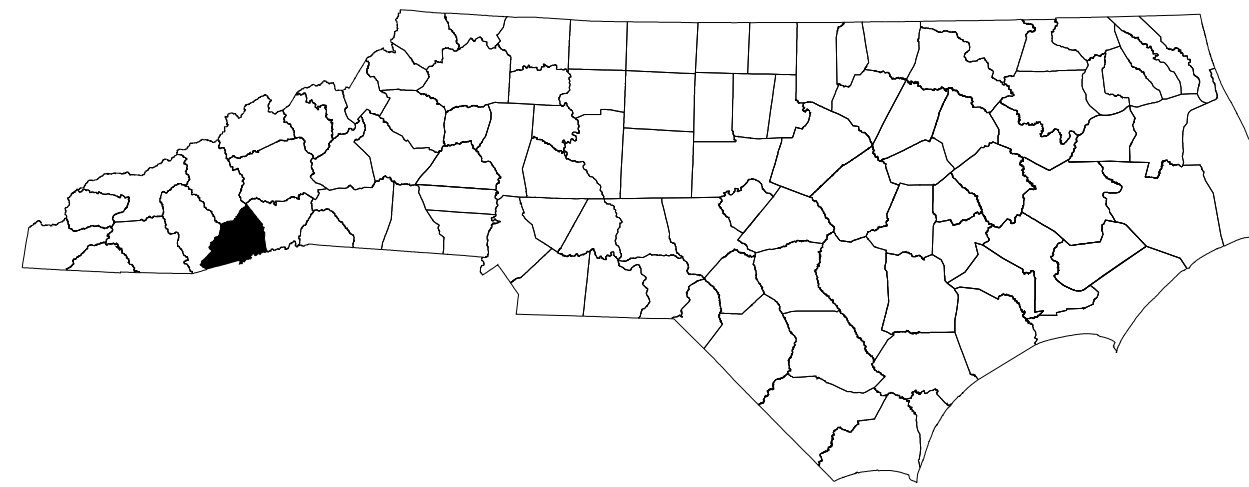
DocuSigned by
J.B. Setzer
6F80A1CE17FE459

3/13/2019

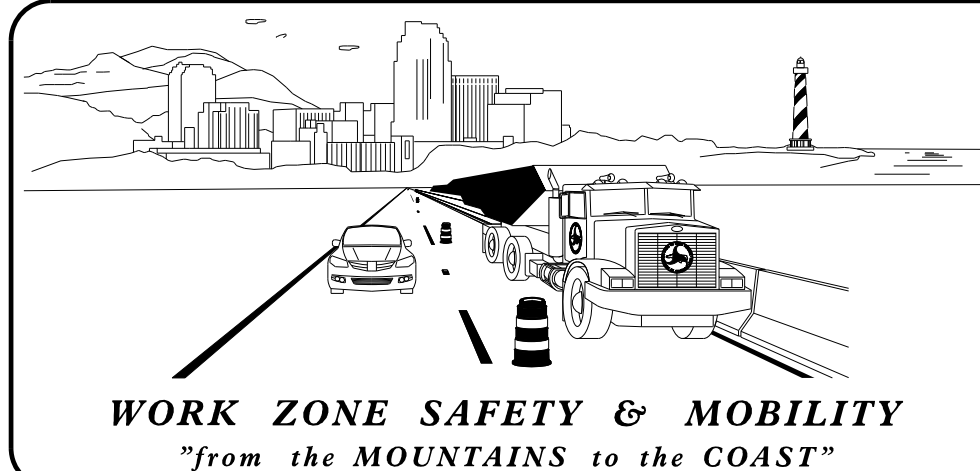
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UNLESS ALL SIGNATURES COMPLETED**

TRANSYLVANIA COUNTY

DIVISION 14

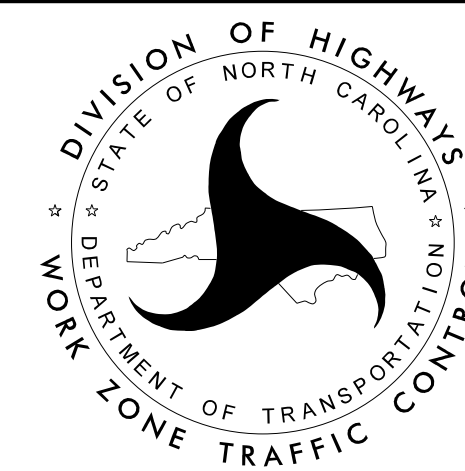


DESCRIPTION: GRADING, MILLING, RESURFACING, AND STRUCTURES



CHRIS MARTELL
PROJECT DESIGN ENGINEER

PROJECT DESIGN ENGINEER



TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT
TMP-4 THRU TMP-5	MILLING AND RESURFACING PHASE I
TMP-6 THRU TMP-7	MILLING AND RESURFACING PHASE II

TMP-1

SEAL



PROJECT: 47850

ROADWAY STANDARD DRAWINGS

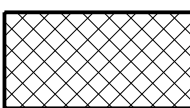
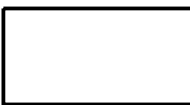
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER 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
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUMS
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
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

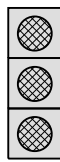
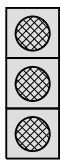
LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.

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

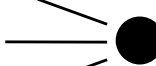
SIGNALS

-  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

PAVEMENT MARKERS

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

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
	WHITE STOPBAR (24")
	2FT. - 6FT./SP WHITE MINISKIP (4")
	WHITE EDGELINE (4")
	YELLOW EDGELINE (4")
	10 FT. WHITE SKIP (4")
	3 FT. - 9 FT./SP WHITE MINISKIP (4")
	WHITE SOLID LANE LINE (4")
	WHITE CROSSWALK LINE (8")

PAINT SYMBOL		
	LEFT TURN ARROW	
	RIGHT TURN ARROW	

APPROVED: 

DATE: 2/27/2019

SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED





ROADWAY STANDARD
DRAWINGS & LEGEND

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
47850	TMP - 1B

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 UNDESIRABLE 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:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>
STATE ROAD 1116	MONDAY THRU FRIDAY, 6:00 AM TO 9:00 AM 2:00 PM TO 4:00 PM

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

ROAD NAME

STATE ROAD 1116

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 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 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 8:00 P.M. THE TUESDAY AFTER
INDEPENDENCE DAY.

6. FOR LABOR DAY BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

<u>ROAD NAME</u>	<u>DAY AND TIME RESTRICTIONS</u>	<u>DURATION AND OPERATION</u>
STATE ROAD 1116	MONDAY THRU SUNDAY, 7:00AM TO 8:00PM	10 MIN., TIE-INS, MARKING PLACEMENT, TRAFFIC SHIFTS

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) 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.
- F) 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.

- G) 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.

- H) 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.

- I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 64.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- 0) 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 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
STATE ROAD 1116	PAINT	NONE

- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

- U) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

MISCELLANEOUS

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

- W) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

LOCAL NOTES:

- 1) EMERGENCY VEHICLE ACCESS MUST BE MAINTAINED AT ALL TIMES.
- 2) NOTIFY THE TRANSYLVANIA COUNTY SCHOOL BOARD 30 DAYS BEFORE ANY LANE CLOSURES.

APPROVED: _____ 13954DF17F5746B... DATE: 2/27/2019	DocuSigned by:  	 TRANSPORTATION OPERATIONS PLAN
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PROJ. REFERENCE NO.	SHEET NO.
47850	TMP-2

USE STATIONARY ADVANCE WARNING SIGN FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT
ON SHEET TMP-3 AND NCDOT RSD NO. 1101.01, SHEET 3 OF 3 TO INSTALL WORK ZONE
ADVANCE WARNING SIGNS.

CONTRACTOR MAY WORK MULTIPLE SEGMENTS AND TYPES OF WORK OPERATIONS
SIMULTANEOUSLY AS APPROVED BY THE ENGINEER.

NOTE: REPEAT PHASE I, STEPS 1 THRU 3 UNTIL ENTIRE NB SR 1116 (N. COUNTRY CLUB RD.) HAS BEEN MILLED AND RESURFACED.

STEP 1: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, CLOSE THE NB SR 1116 (N. COUNTRY CLUB RD.) (SEE SHEETS TMP-4 THRU TMP-5).

STEP 2: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, CONDUCT MILLING & PAVING OPERATIONS OF EXISTING NB SR 1116 (N. COUNTRY CLUB RD.), CONSTRUCT PROPOSED SIDEWALK FROM -EL- STA. 16 + 93 +/- (RT.) TO -EL- STA. 17 + 82 +/- (RT.) AND -EL- STA. 21 + 24 +/- (RT.) TO -EL- STA. 26 + 39 +/- (RT.), AND CONSTRUCT PROPOSED 2' - 6" CURB & GUTTER FROM -EL- STA. 17 + 40 +/- (RT.) TO -EL- STA. 17 + 81 +/- (RT.) (SEE ROADWAY PLANS AND SHEETS TMP-4 THRU TMP-5).

STEP 3: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, PLACE TEMPORARY PAVEMENT MARKINGS, AND OPEN TO THE EXISTING TRAFFIC PATTERN.

NOTE: REPEAT PHASE II, STEPS 1 THRU 3 UNTIL ENTIRE SB SR 1116 (N. COUNTRY CLUB RD.) HAS BEEN MILLED AND RESURFACED.

STEP 1: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, CLOSE THE SB SR 1116 (N. COUNTRY CLUB RD.) (SEE SHEETS TMP-6 THRU TMP-7).

STEP 2: USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEET 1 OF 14, CONDUCT MILLING & PAVING OPERATIONS OF EXISTING SB SR 1116 (N. COUNTRY CLUB RD.) AND CONSTRUCT PROPOSED SIDEWALK FROM -EL- STA. 16 + 93 +/- (LT.) TO -EL- STA. 17 + 37 +/- (LT.). (SEE ROADWAY PLANS AND SHEETS TMP-6 THRU TMP-7).

STEP 3: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 1 OF 14, PLACE FINAL PAVEMENT MARKINGS, REMOVE ALL TRAFFIC DEVICES AND SIGNS, AND OPEN ROAD TO ITS FINAL TRAFFIC PATTERN.

APPROVED: _____ DocuSigned by: L. Duggan Brown 039543F17F5746B8 DATE: 2/27/2019  SEAL 2019 ENGINEER LLOYD D. BROWN		PHASING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

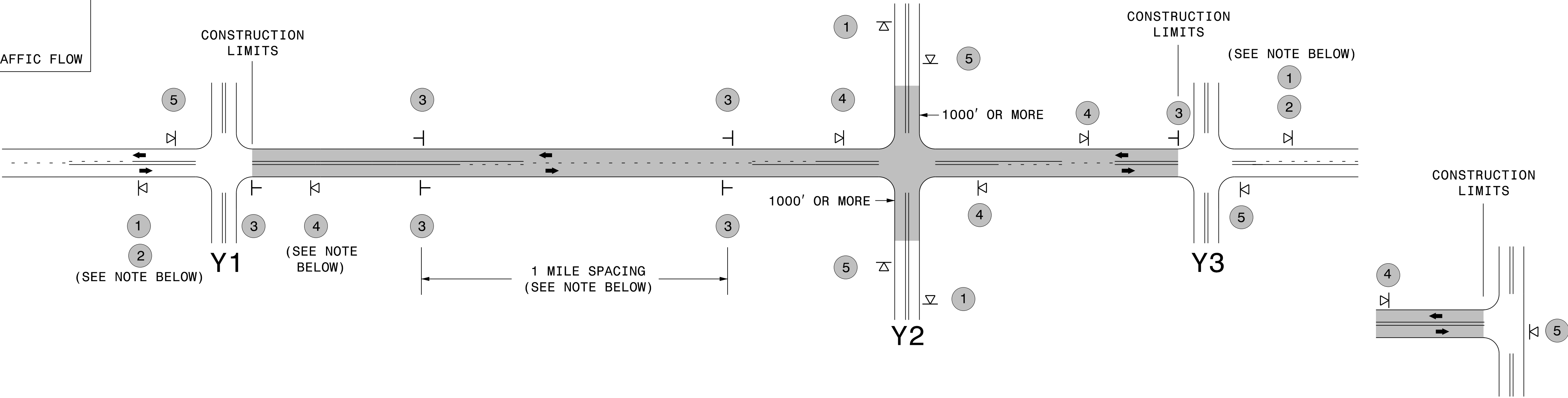
SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND

 PORTABLE SIGN

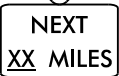
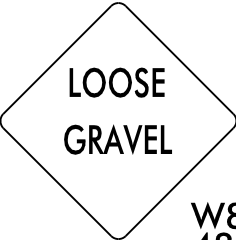
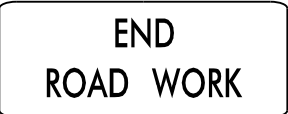
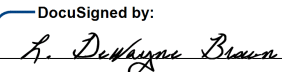
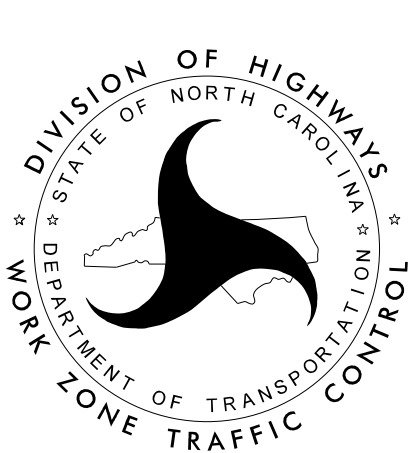
 STATIONARY SIGN

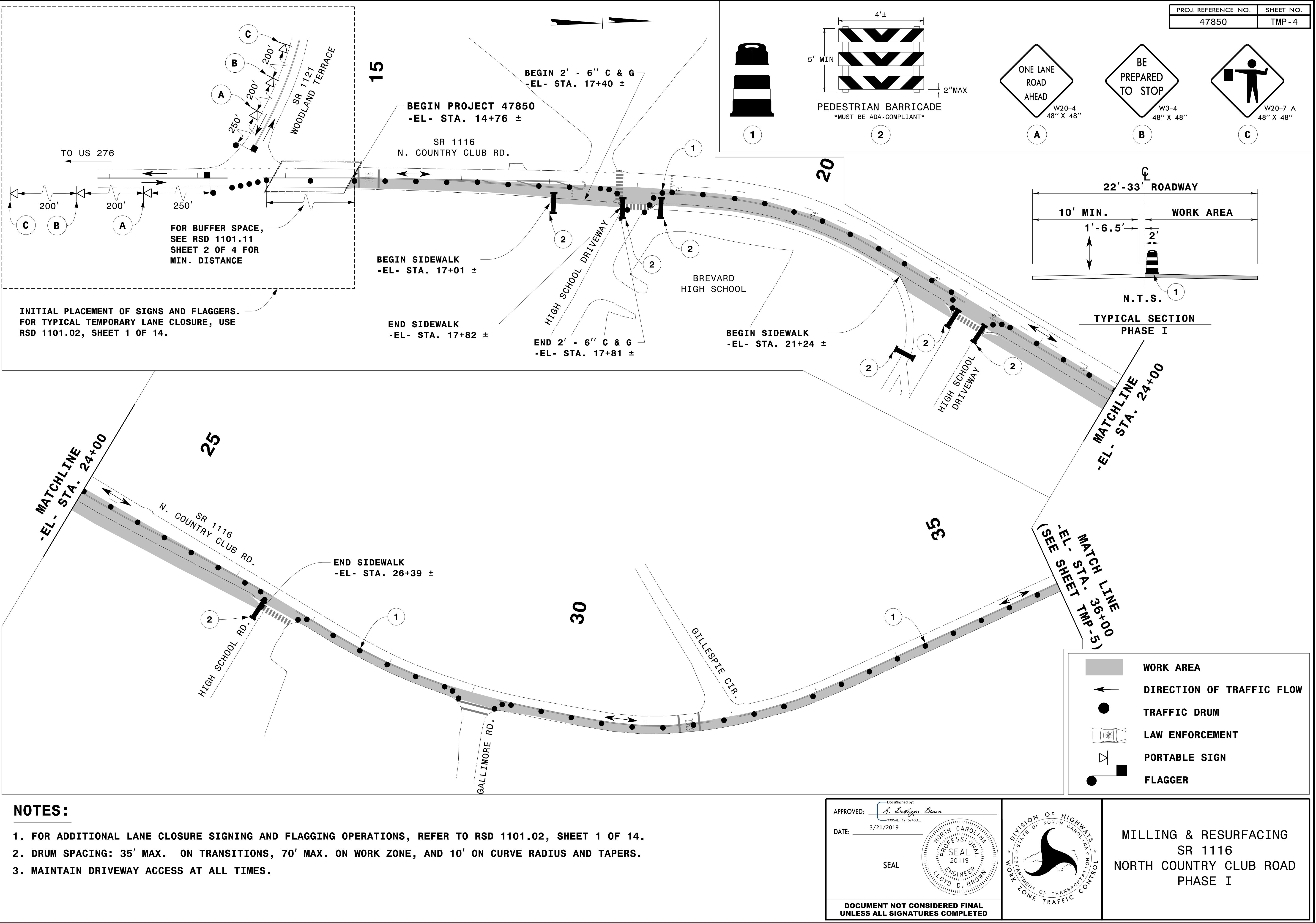
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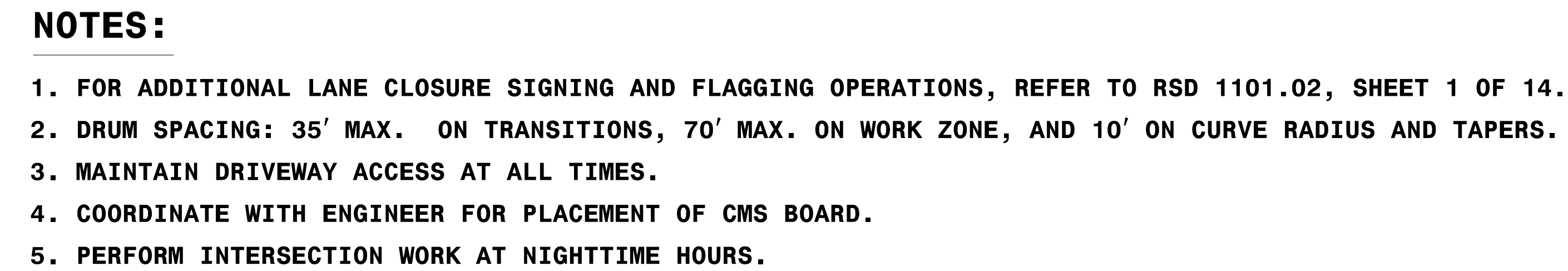
MAINLINE (-L-) SIGNING

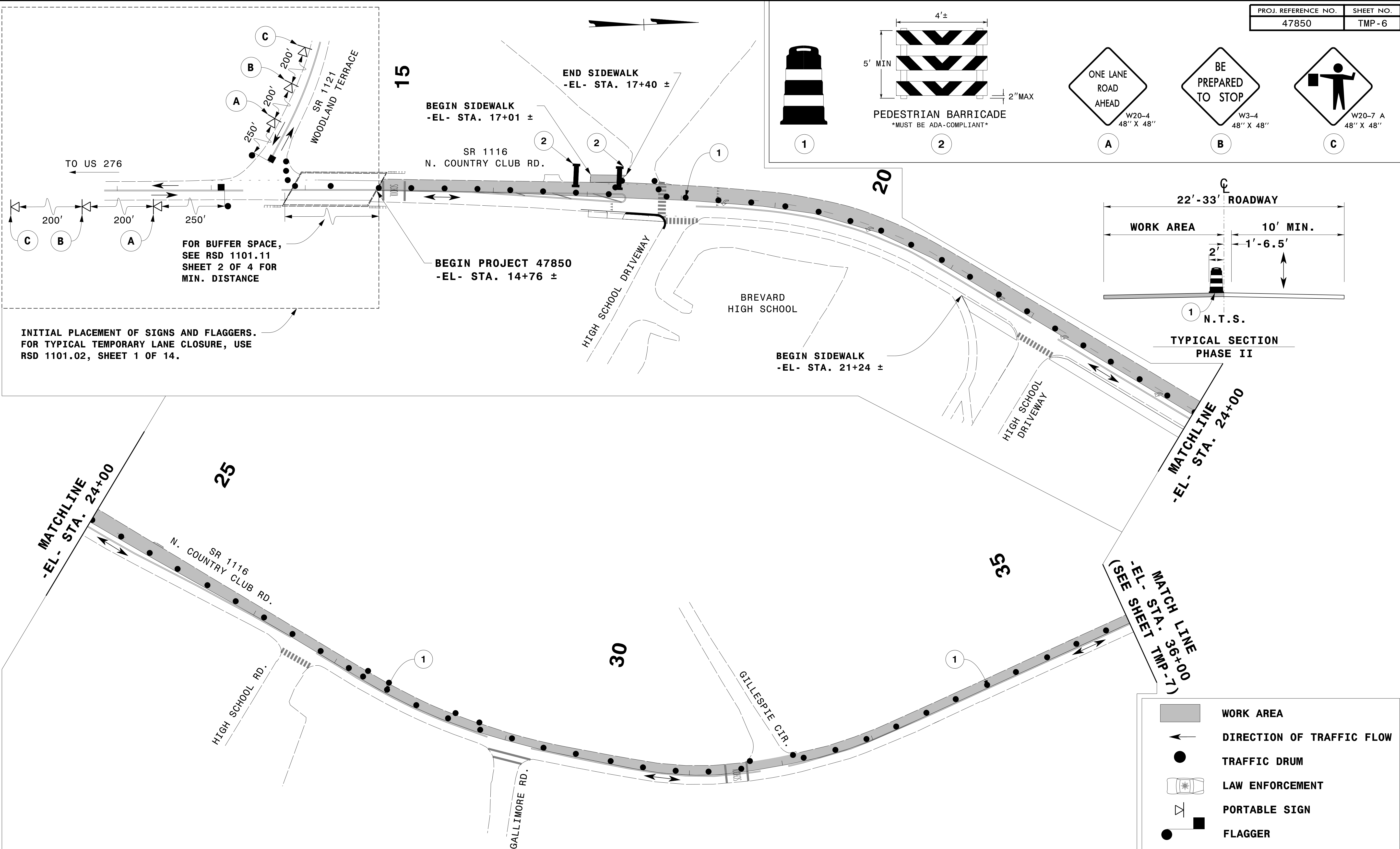
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1  W20-1 48" X 48" 2  W7-3qP 24" X 18" - PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. - SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.	STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS: 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALLE BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.  W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER.  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.
	3  W8-7 48" X 48"  SP 48" X 48" - ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4  SP 13106 48" X 48" - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	
	5  G20-2 A 48" X 24" PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.	
MAPS LESS THAN 2 MILES	FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.	APPROVED:  338540F17F5746B DATE: 2/27/2019 SEAL  DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

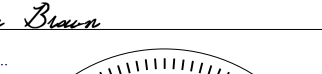


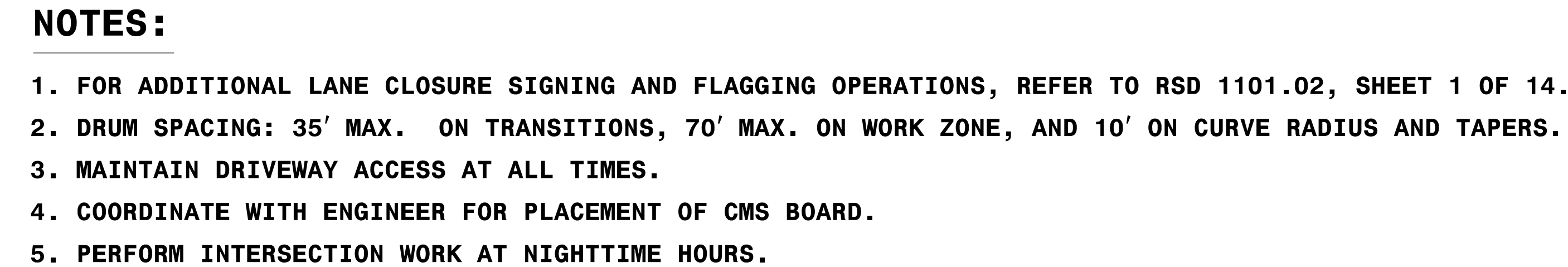
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User:icphibot





1. FOR ADDITIONAL LANE CLOSURE SIGNING AND FLAGGING OPERATIONS, REFER TO RSD 1101.02, SHEET 1 OF 14.
2. DRUM SPACING: 35' MAX. ON TRANSITIONS, 70' MAX. ON WORK ZONE, AND 10' ON CURVE RADIUS AND TAPERS.
3. MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

APPROVED: <u><i>L. Duggan Brown</i></u>			MILLING & RESURFACING SR 1116 NORTH COUNTRY CLUB ROAD PHASE II
DATE: <u>3/21/2019</u>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



09/08/19

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN
TRANSYLVANIA COUNTY

LOCATION : SR 1116 /NORTH COUNTRY CLUB ROAD

PROJECT REFERENCE NO.
47850

SHEET NO.
PMP-1

ROADWAY DESIGN
ENGINEER

NORTH CAROLINA
PROFESSIONAL
SEAL
17355
ENGINEER
J.B. SETZER

DocuSigned by
J.B. Setzer
6F60A1CE17FE450

5/14/2019

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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 2018 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 & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES

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 ON THE FINAL SURFACE
ROAD NAME: SR 1116 (NORTH COUNTRY CLUB ROAD) MARKING THERMOPLASTIC

- 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) RECORD EXISTING PAVEMENT MARKINGS/MARKERS CONFIGURATION PRIOR TO CONSTRUCTION. THIS RECORD SHALL BE UTILIZED TO PLACE THE FINAL PAVEMENT MARKINGS/MARKERS.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2	PAVEMENT MARKING DETAIL
PMP-3	PAVEMENT MARKING DETAIL
PMP-4	PAVEMENT MARKING DETAIL
PMP-5	PAVEMENT MARKING DETAIL

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Consulting Engineers

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ENGINEER

TRANSPORTATION
DESIGN
ENGINEER

JOEL B. SETZER, PE

JARED PHILPOT

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User: jcp@philpot

5/14/2019

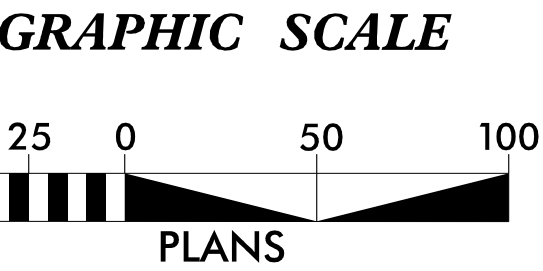
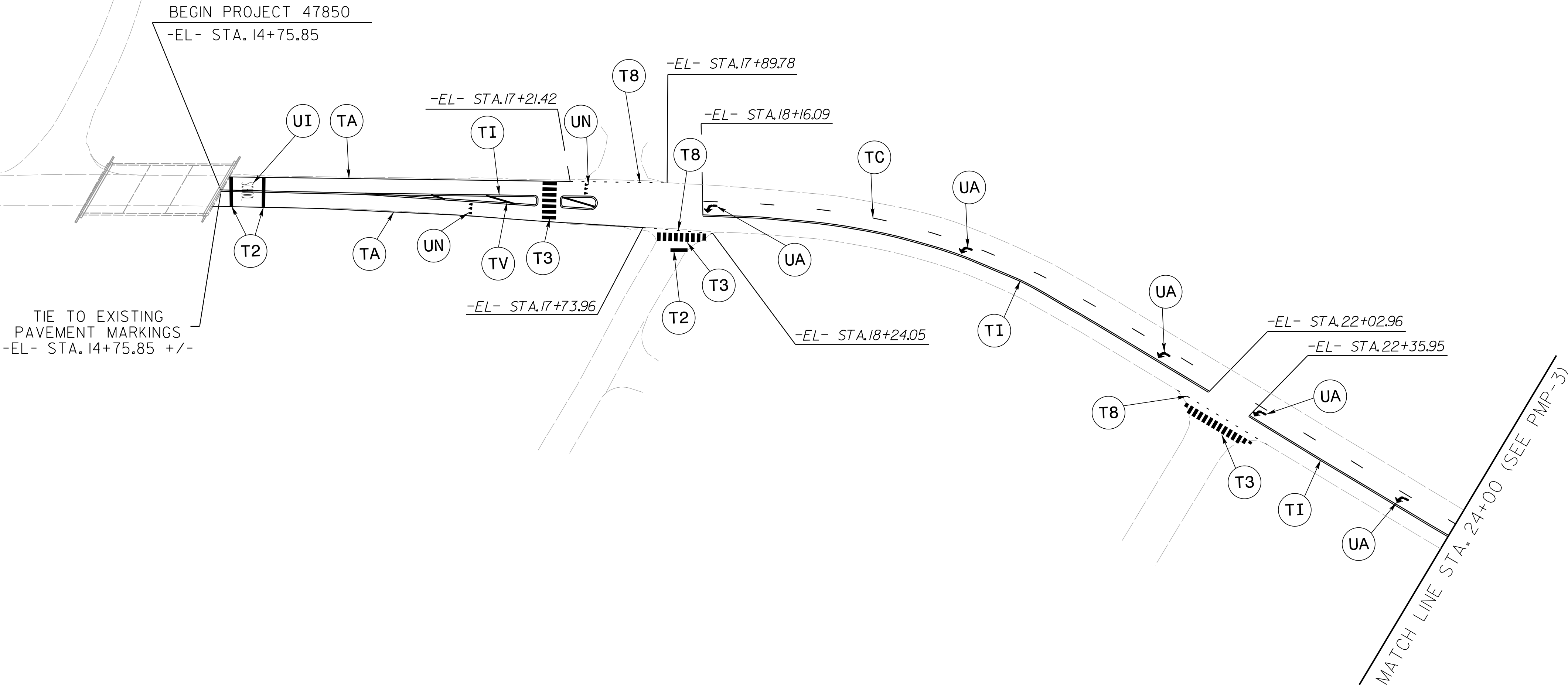
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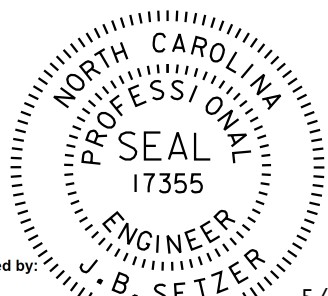


PAVEMENT MARKING PLAN

SYMBOL	DESCRIPTION
(TA)	WHITE SOLID EDGE LINE (4",60 MIL)
(T8)	2 FT. - 6 FT./SP WHITE MINISKIP (4",60 MIL)
(TV)	YELLOW DIAGONAL LINE (12",60 MIL)
(UN)	YIELD LINE TRIANGLE (24",120 MIL)
(TC)	10 FT WHITE SKIP (4",60 MIL)
(UA)	LEFT TURN ARROW (60 MIL)
(T2)	WHITE STOPBAR (24",120 MIL)
(T3)	WHITE CROSSWALK LINE (24",120 MIL)
(UI)	ALPHANUMERIC CHARACTER (120 MIL)
(TI)	YELLOW DOUBLE CENTER LINE (4",60 MIL)

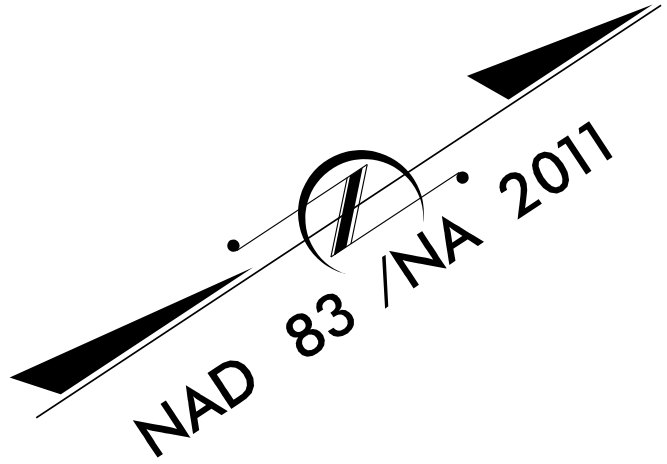
WOODLAND TERRACE
SR1121



PROJECT REFERENCE NO.	SHEET NO.
47850	PMP-2
ROADWAY DESIGN ENGINEER	
	
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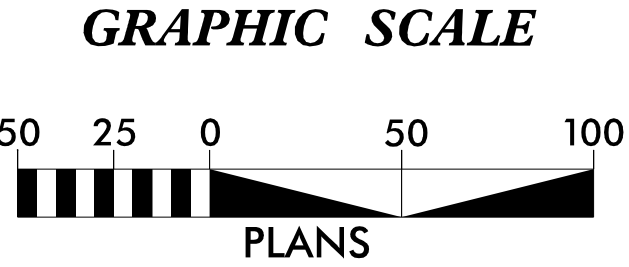
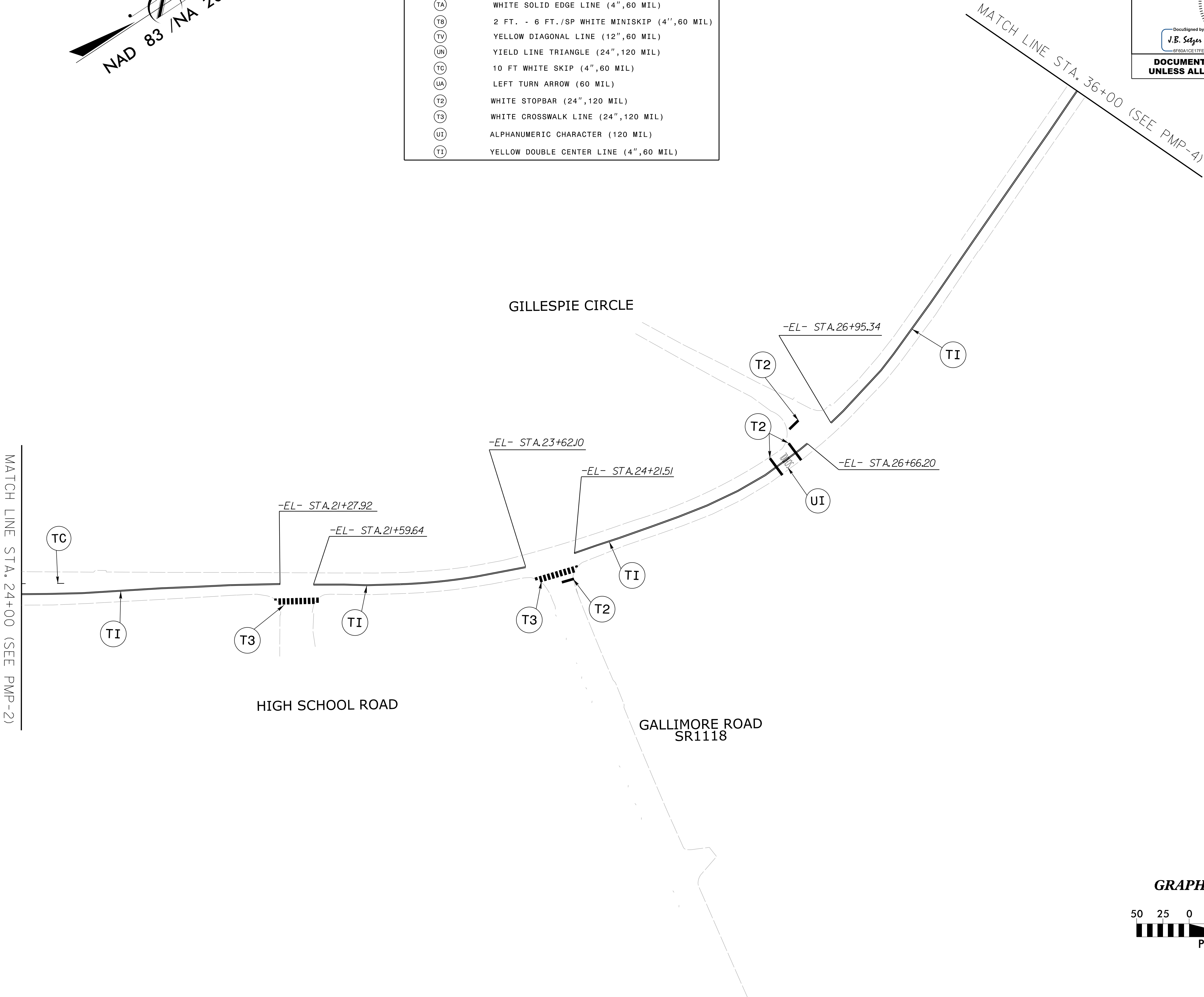
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jsetzer



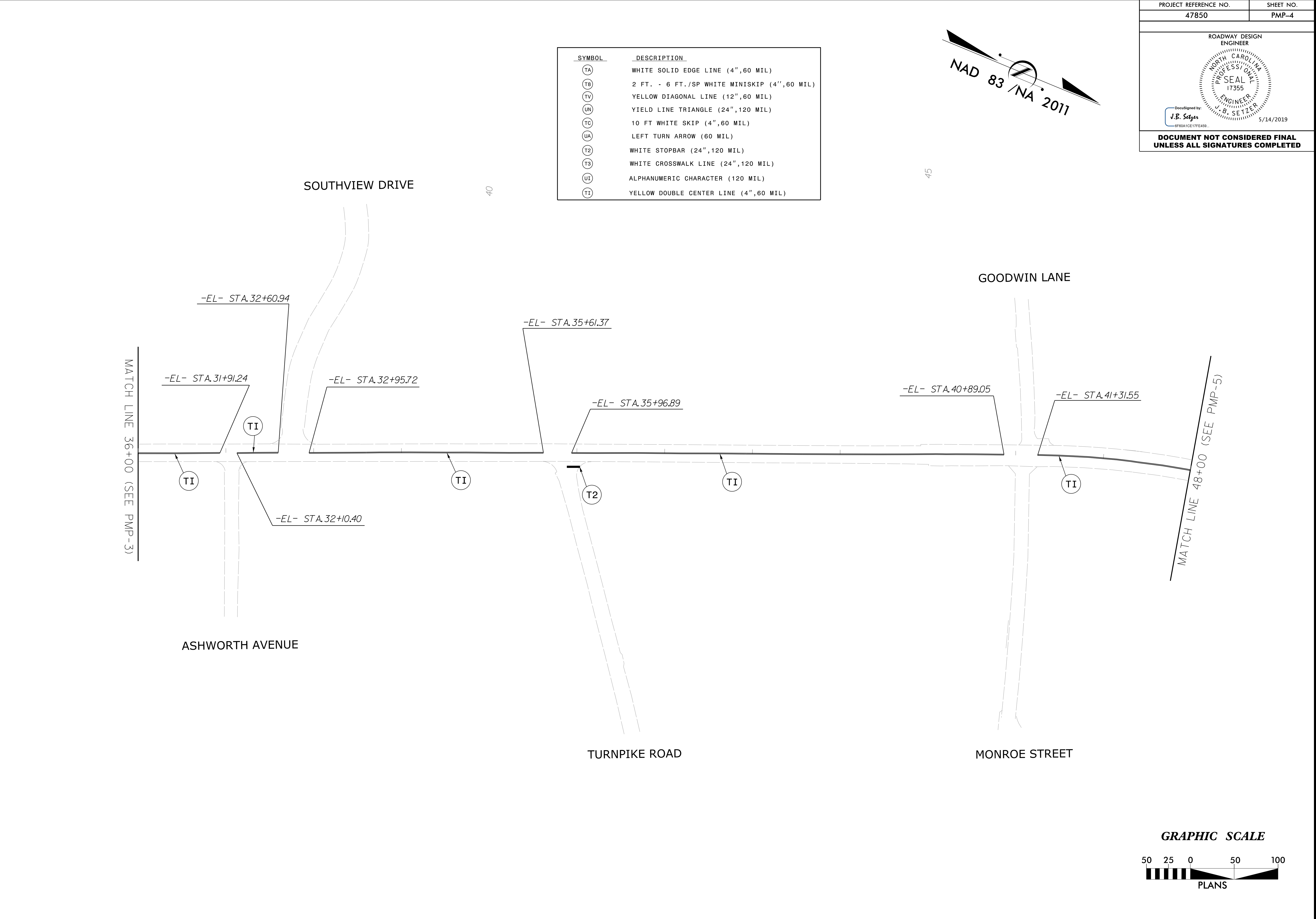
SYMBOL	DESCRIPTION
(TA)	WHITE SOLID EDGE LINE (4",60 MIL)
(TB)	2 FT. - 6 FT./SP WHITE MINISKIP (4",60 MIL)
(TV)	YELLOW DIAGONAL LINE (12",60 MIL)
(UN)	YIELD LINE TRIANGLE (24",120 MIL)
(TC)	10 FT WHITE SKIP (4",60 MIL)
(UA)	LEFT TURN ARROW (60 MIL)
(T2)	WHITE STOPBAR (24",120 MIL)
(T3)	WHITE CROSSWALK LINE (24",120 MIL)
(UI)	ALPHANUMERIC CHARACTER (120 MIL)
(TI)	YELLOW DOUBLE CENTER LINE (4",60 MIL)

PROJECT REFERENCE NO.	SHEET NO.
47850	PMP-3
ROADWAY DESIGN ENGINEER	
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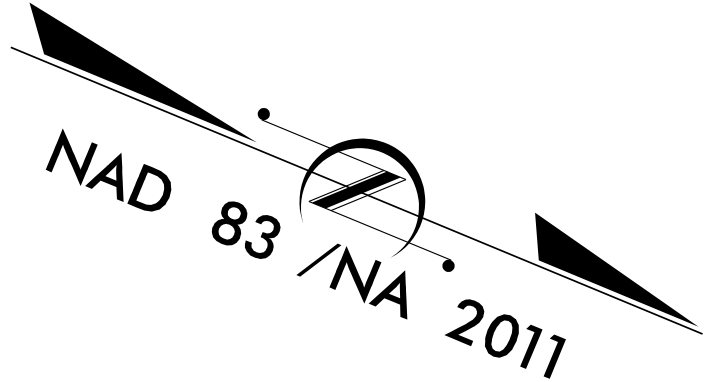


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jsetzer



SYMBOL	DESCRIPTION
TA	WHITE SOLID EDGE LINE (4",60 MIL)
TB	2 FT. - 6 FT./SP WHITE MINISKIP (4",60 MIL)
TV	YELLOW DIAGONAL LINE (12",60 MIL)
UN	YIELD LINE TRIANGLE (24",120 MIL)
TC	10 FT WHITE SKIP (4",60 MIL)
UA	LEFT TURN ARROW (60 MIL)
T2	WHITE STOPBAR (24",120 MIL)
T3	WHITE CROSSWALK LINE (24",120 MIL)
UI	ALPHANUMERIC CHARACTER (120 MIL)
TI	YELLOW DOUBLE CENTER LINE (4",60 MIL)



PROJECT REFERENCE NO.	SHEET NO.
47850	PMP-4

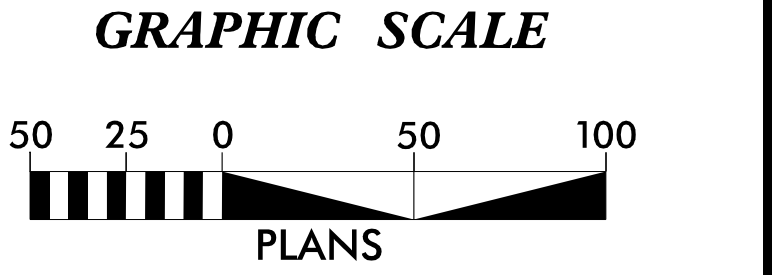
ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 17355

ENGINEER J. B. SETZER

DocuSigned by: J.B. Setzer 5F60A1CE17FE459... 5/14/2019

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5/14/99

5/13/2018 10:50:14 AM
transportation\cc Rd Brevard\Traffic\PMF\47850_PMF5.dgn

DOWNING PARK COURT

MATCH LINE 48+00 (SEE PMF-4)

-EL- STA.49+00.63

-EL- STA.49+43.73

-EL- STA.52+90.01

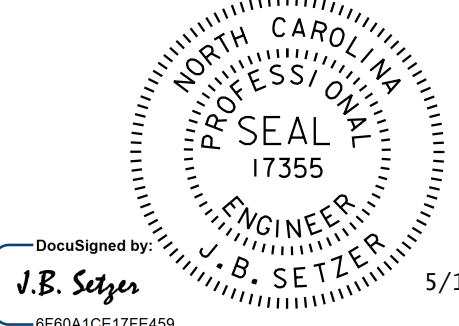
-EL- STA.53+22.33

END PROJECT 47850

-EL- STA. 56+50.00

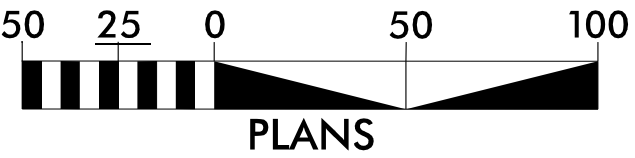
TIE TO EXISTING
PAVEMENT MARKINGS
-EL- STA. 56+50.00

NAD 83 /NA 2011

PROJECT REFERENCE NO.	SHEET NO.
47850	PMP-5
ROADWAY DESIGN ENGINEER	
	
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SYMBOL	DESCRIPTION
TA	WHITE SOLID EDGE LINE (4",60 MIL)
TB	2 FT. - 6 FT./SP WHITE MINISKIP (4",60 MIL)
TV	YELLOW DIAGONAL LINE (12",60 MIL)
UN	YIELD LINE TRIANGLE (24",120 MIL)
TC	10 FT WHITE SKIP (4",60 MIL)
UA	LEFT TURN ARROW (60 MIL)
T2	WHITE STOPBAR (24",120 MIL)
T3	WHITE CROSSWALK LINE (24",120 MIL)
UT	ALPHANUMERIC CHARACTER (120 MIL)
TI	YELLOW DOUBLE CENTER LINE (4",60 MIL)

GRAPHIC SCALE

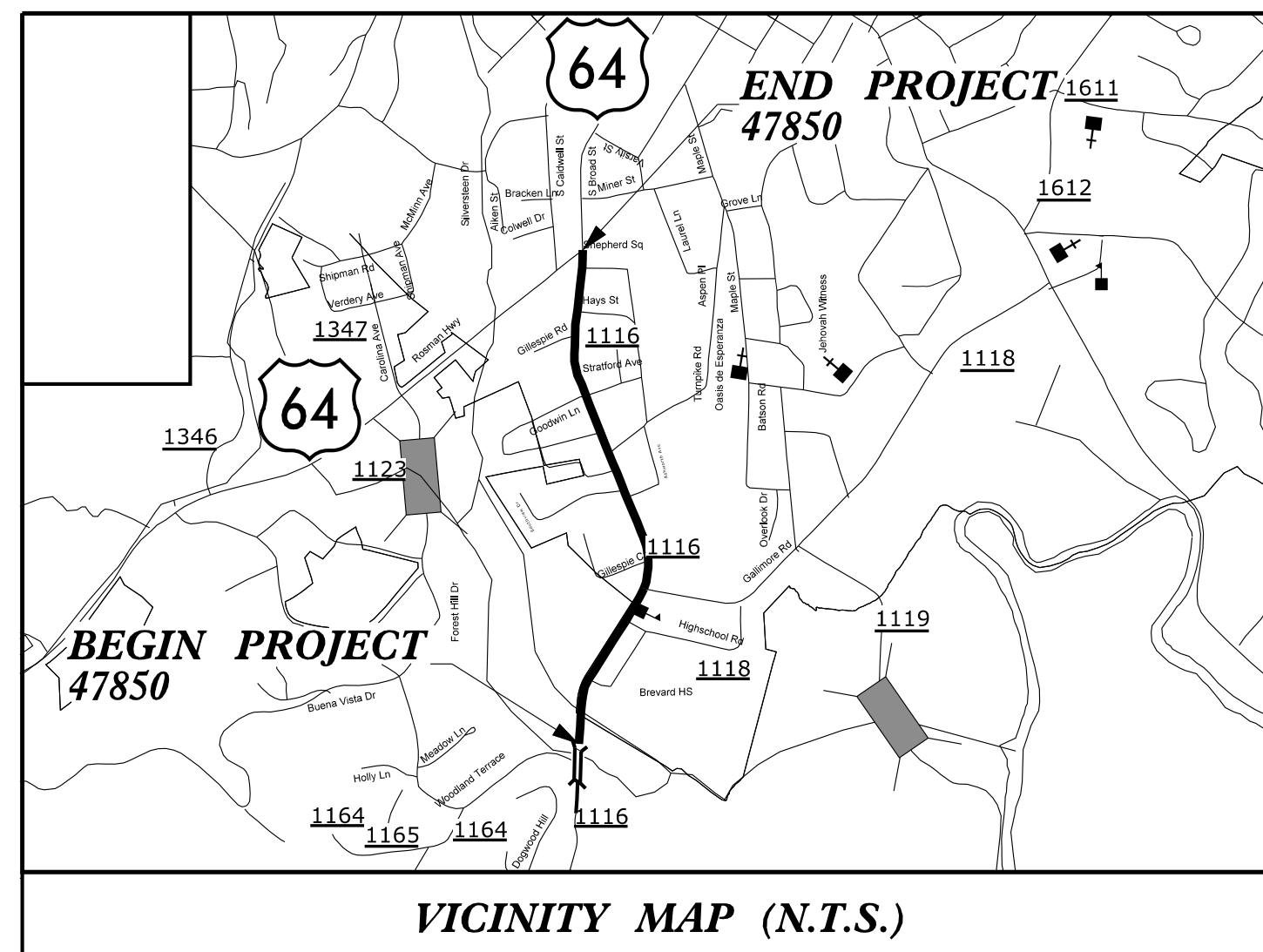
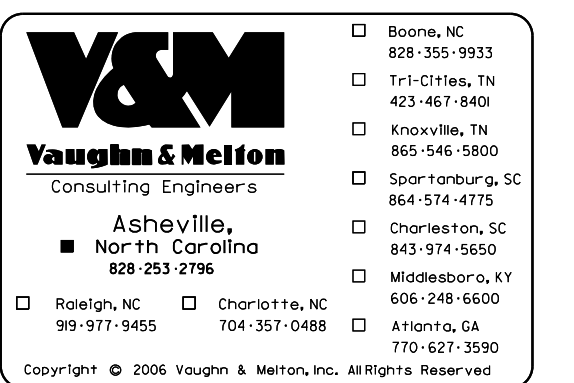


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	47850	EC-1	6
STATE PROJ.NO.	F. A. PROJ.NO.	DESCRIPTION	
47850		CONSTRUCTION	
44910.3.6	TAP-1420(010)	CONSTRUCTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/Coir Fiber Wattle	
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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



STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

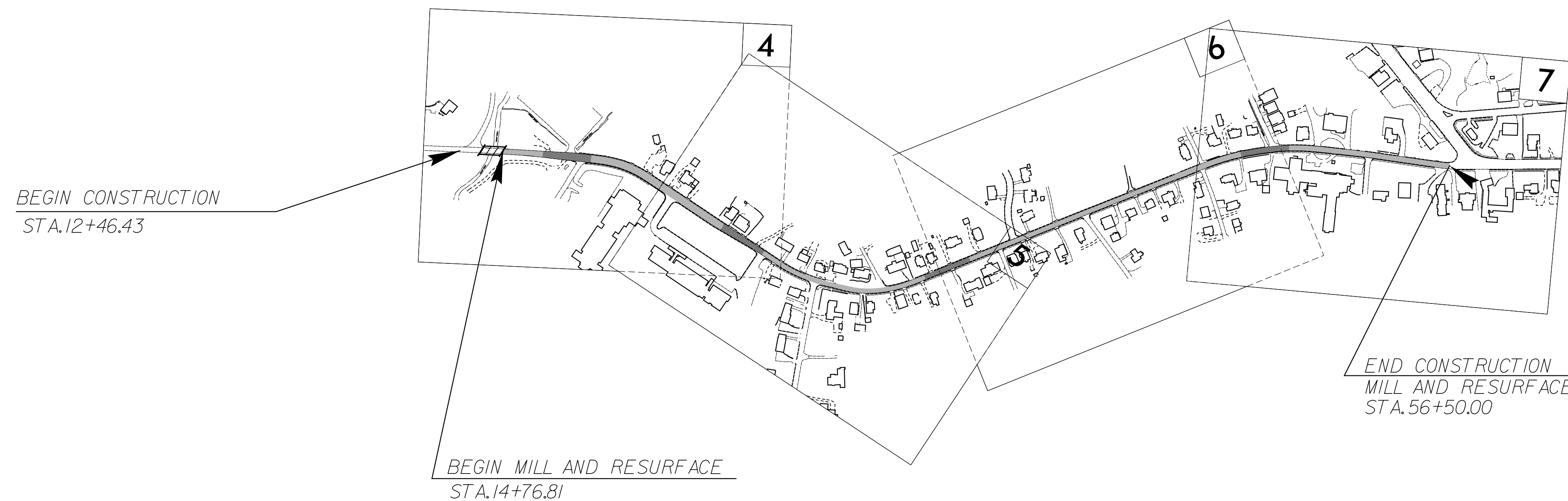
PLAN FOR PROPOSED

HIGHWAY EROSION CONTROL

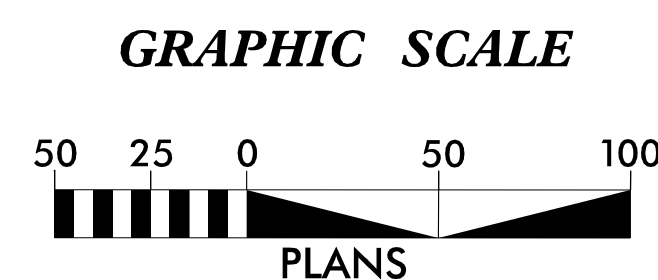
TRANSYLVANIA COUNTY

**LOCATION: NORTH COUNTRY CLUB ROAD (SR1116)
BETWEEN WOODLAND TERRACE ROAD AND US 64**

TYPE OF WORK: GRADING, MILLING, RESURFACING, AND STRUCTURES



NAD 83 /NA 2011



THESE EROSION AND SEDIMENT
CONTROL PLANS COMPLY WITH
THE REGULATIONS SET FORTH
BY THE NCG-010000 GENERAL
CONSTRUCTION PERMIT EFFECTIVE
DECEMBER 20, 2018 AND ISSUED BY
THE NORTH CAROLINA DEPARTMENT
OF ENVIRONMENT AND NATURAL
RESOURCES DIVISION OF WATER
RESOURCES.

Prepared in the Office of:

***Vaughn & Melton
Consulting Engineers***

1318-F Patton Avenue
Asheville, NC 28806

2018 STANDARD SPECIFICATIONS

Designed by:

CHRISTIAN GONZALEZ-MARTELL 3939
 NAME LEVEL III CERTIFICATION NO.

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Reviewed by:

REID WHITEHEAD, PE, CPESC

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 2018 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 Jerms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Jasin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Jasin 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 Jasin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Jaffle
1630.06	Special Stilling Jasin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
47850	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

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

8/17/99

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MATCH LINE STA. 24+00 (SEE EC-3)

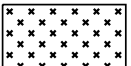
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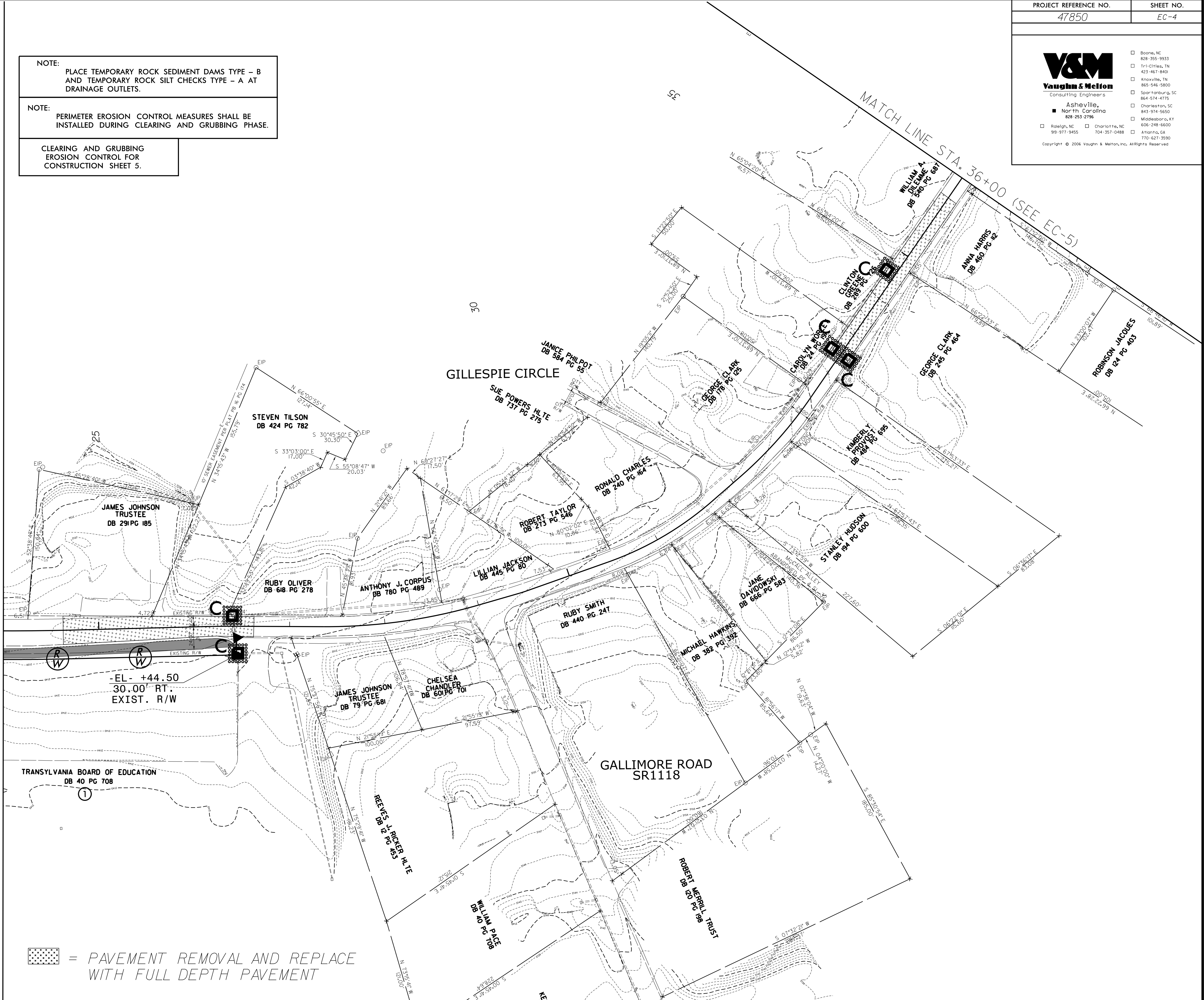
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B
AND TEMPORARY ROCK SILT CHECKS TYPE – A AT
DRAINAGE OUTLETS.

NOTE:

PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5.

 = PAVEMENT REMOVAL AND REPLACE
WITH FULL DEPTH PAVEMENT



PROJECT REFERENCE NO.

47850

SHEET NO.

EC-4


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☐ Charleston, SC
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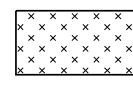
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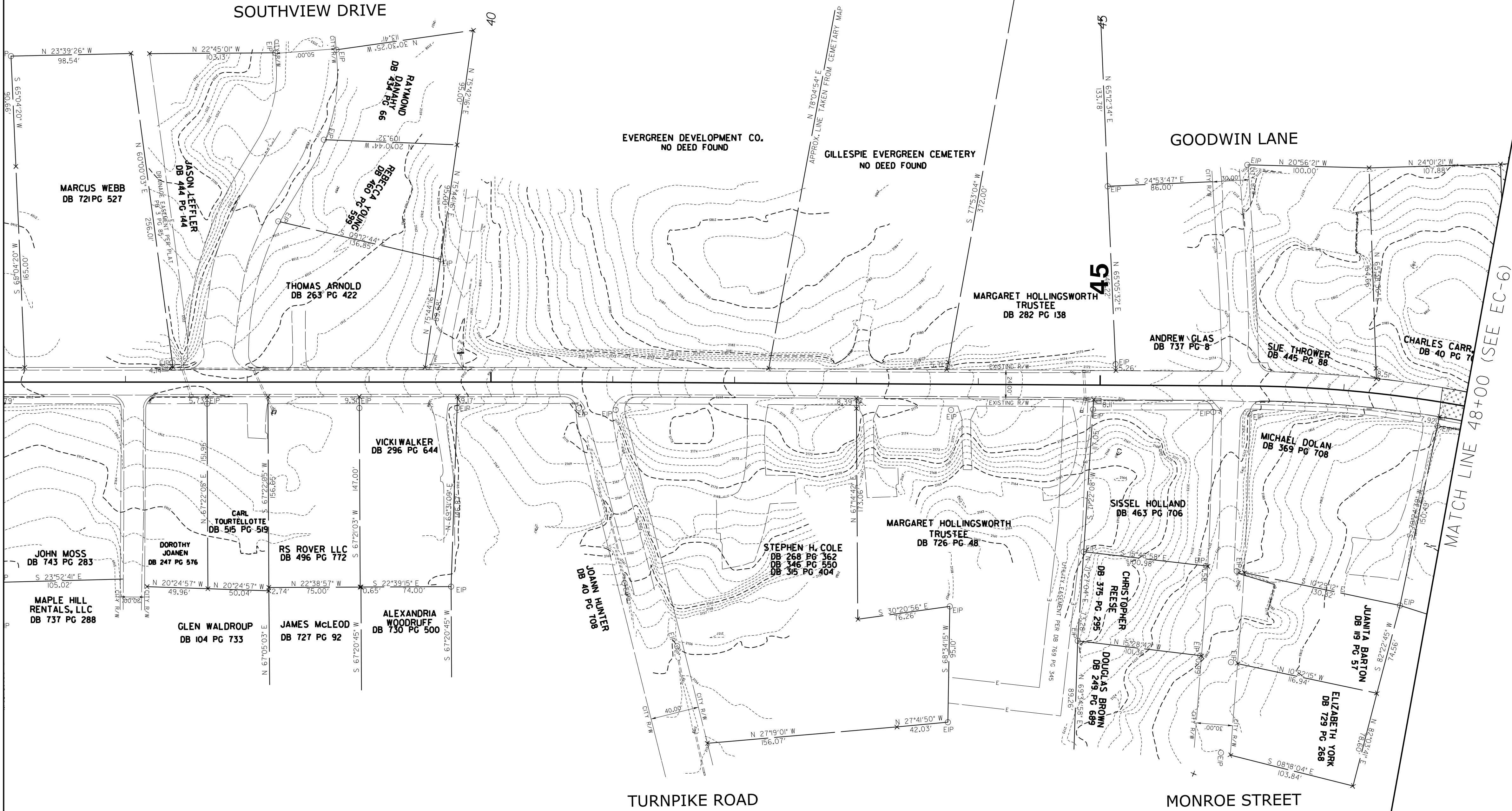
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NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6.

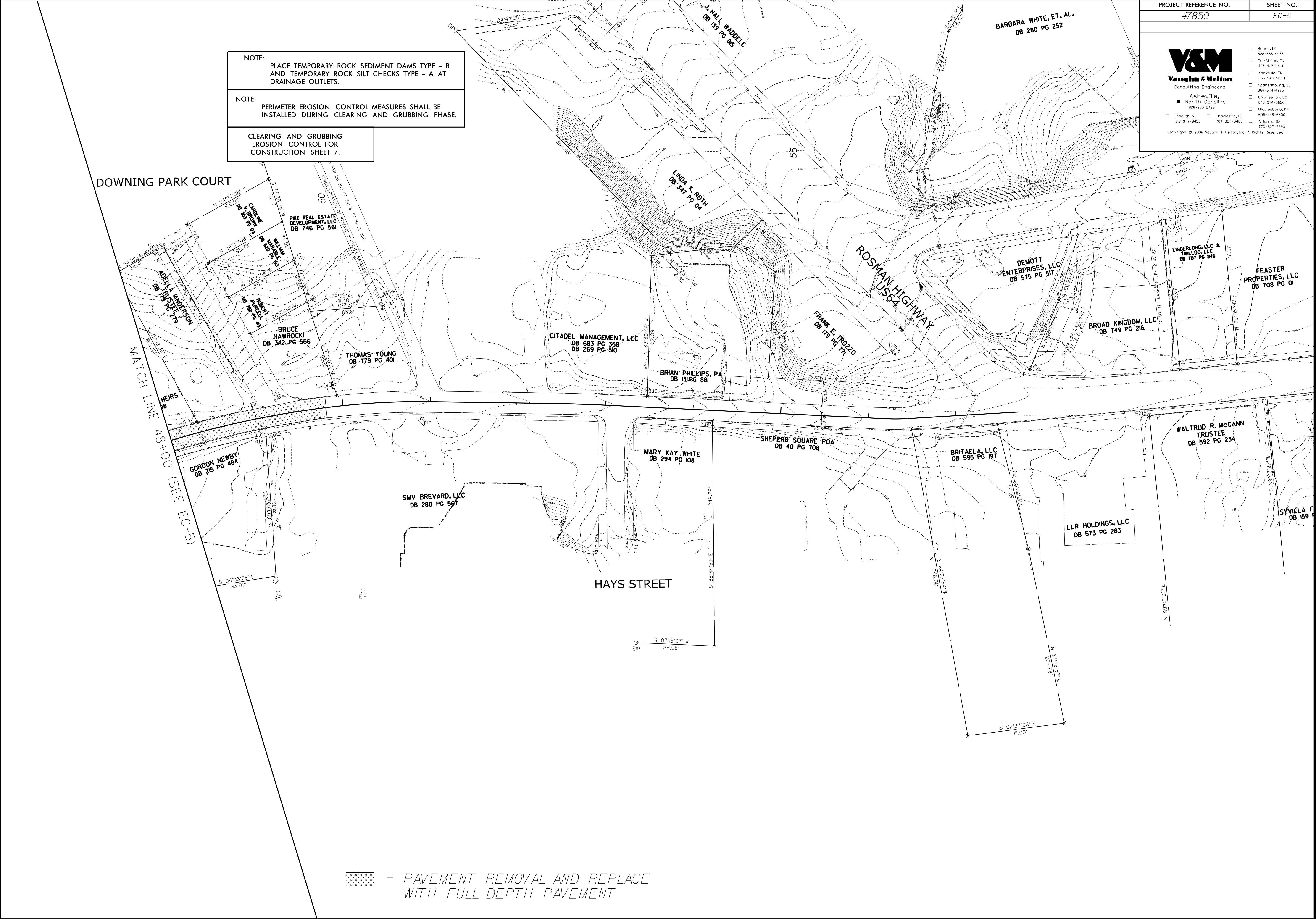
 = PAVEMENT REMOVAL AND REPLACE
WITH FULL DEPTH PAVEMENT



PROJECT REFERENCE NO.		SHEET NO.	
47850		EC-5	
 Asheville, North Carolina 888-253-2798 Raleigh, NC 919-377-9455 Charlotte, NC 704-357-0488 Atlanta, GA 770-627-3590 Boone, NC 828-355-9933 Tri-Cities, TN 423-467-8401 Knoxville, TN 865-546-5800 Spartanburg, SC 864-574-4775 Charleston, SC 843-974-5650 Middleboro, KY 606-248-6600 Copyright © 2006 Vaughn & Mellon, Inc. All Rights Reserved			

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last modified



PROJECT REFERENCE NO.	SHEET NO.
47850	EC-5

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☐ Tri-Cities, TN 423-467-8401	☐ Spartanburg, SC 864-574-4775
☐ Charleston, SC 843-974-5650	☐ Middleboro, KY 606-248-6600
☐ Atlanta, GA 770-627-3590	

5/20/2019 9:44:31AM
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User:Jophlpot

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
TRANSYLVANIA COUNTY

LOCATION: SR 1116 /NORTH COUNTRY CLUB ROAD

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 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
910.20	SCHOOL MARKED & UNMARKED CROSSWALKS / SPEED REDUCTION REQUIREMENTS
901.50	ARROWS AND SHIELDS
903.20	MOUNTING ON TYPE 'D', 'E' AND 'F' SIGNS ON WOOD POST
904.10	ORIENTATION OF GROUND MOUNTED SIGN
904.50	MOUNTING ON TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POST

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	PROPOSED SIGNS
SIGN-3	PROPOSED SIGNS

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	24.25	SF
4072000000	903	SUPPORT, 3-LB STEEL U-CHANNEL	49	LF
4082000000	903	SUPPORT, WOOD	16	LF
4102000000	904	SIGN ERECTION, TYPE E	4	EA
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)	3	EA
4141000000	907	DISPOSAL OF SUPPORT, WOOD	2	EA
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	3	EA
4360000000	SP	GENERIC SIGNING ITEM (REMOVE AND RELOCATE NO PARKING SIGN)	2	EA

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

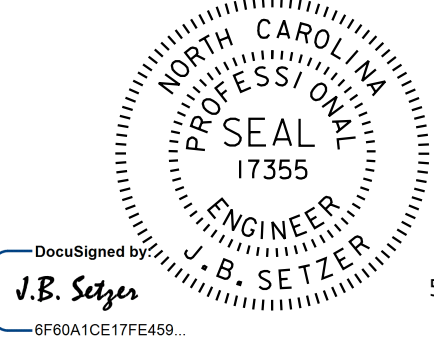
PLAN PREPARED BY: Vaughn & Melton Engineering

JOEL B. SETZER, PE PROJECT ENGINEER
JARED PHILPOT PROJECT DESIGN ENGINEER



Asheville,
North Carolina
828.253.4786

- ☐ Raleigh, NC
919.977-9455
- ☐ Charlotte, NC
704.357-0488
- ☐ Boone, NC
828.350-5833
- ☐ Tri-Cities, TN
423.487-8401
- ☐ Tri-Cities, TN
423.487-8401
- ☐ Knoxville, TN
865.548-5880
- ☐ Charleston, SC
843.974-5650
- ☐ Middletown, RI
606.248-6600
- ☐ Atlanta, GA
770.621-3559
- ☐ Spartanburg, SC
864.534-4715

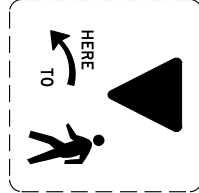
TIP NO.	SHEET NO.
47850	SIGN - 1
APPROVED: _____	
DATE: _____	
SEAL  DocuSigned by: J.B. Setzer 5/20/2019	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



WOODLAND TERRACE
SR1121

TO ROSMAN

SEE NOTE 1



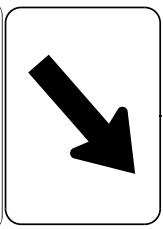
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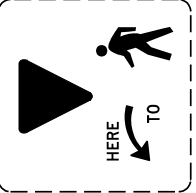
S1-1



S1-1



W16-7P



SEE NOTE 1

PROJECT NOTES

1. RELOCATION OF SIGN SYSTEM

PROPOSED SIGNS

TIP NO.	SHEET NO.
47850	SIGN-2
APPROVED: _____	
DATE: _____	
SEAL	
DocuSigned by: J.B. Setzer 6FBD0A1CE17FE45B	
5/20/2019	
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25

20

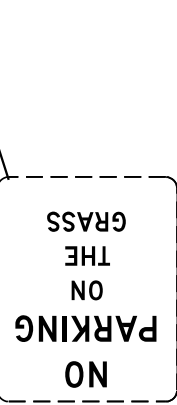
15

TO BREVARD

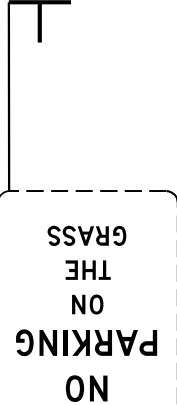


TIP NO.	SHEET NO.
47850	SIGN-3
APPROVED: _____	
DATE: _____	
SEAL	
DocuSigned by <i>J.B. Setzer</i> 8F60A1CE17FE459 NORTH CAROLINA PROFESSIONAL SEAL 17355 ENGINEER J.B. SETZER 5/20/2019	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCH LINE STA. 24+00 (SEE SIGN-2)



SEE NOTE 1



SEE NOTE 1

PROJECT NOTES

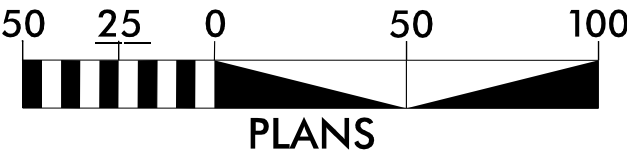
1. RELOCATION OF SIGN SYSTEM

GILLESPIE CIRCLE

GALLIMORE ROAD
SR1118

MATCH LINE STA. 36+00 (SEE SIGN-4)

GRAPHIC SCALE



PROPOSED SIGNS