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TIP PROJECT: R-5843

CONTRACT: DN00709

FINAL PLANS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5843	1	97

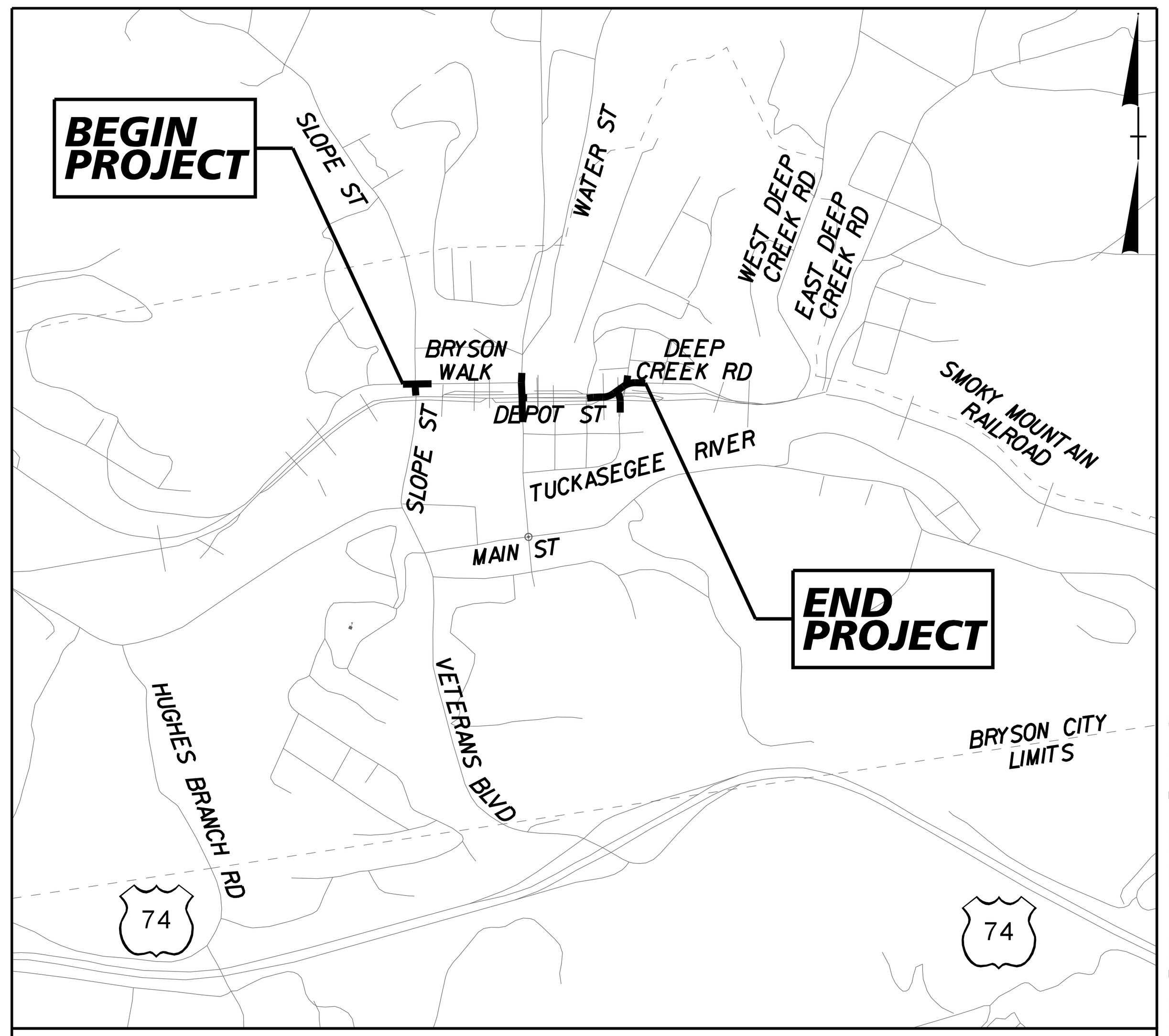
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
47085.1.1		P.E.
47085.2.1		RIGHT-OF-WAY
47085.2.1		UTILITIES
47085.3.1		CONSTRUCTION

Kimley»Horn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SWAIN COUNTY

See Sheet 1-B For Conventional Symbols

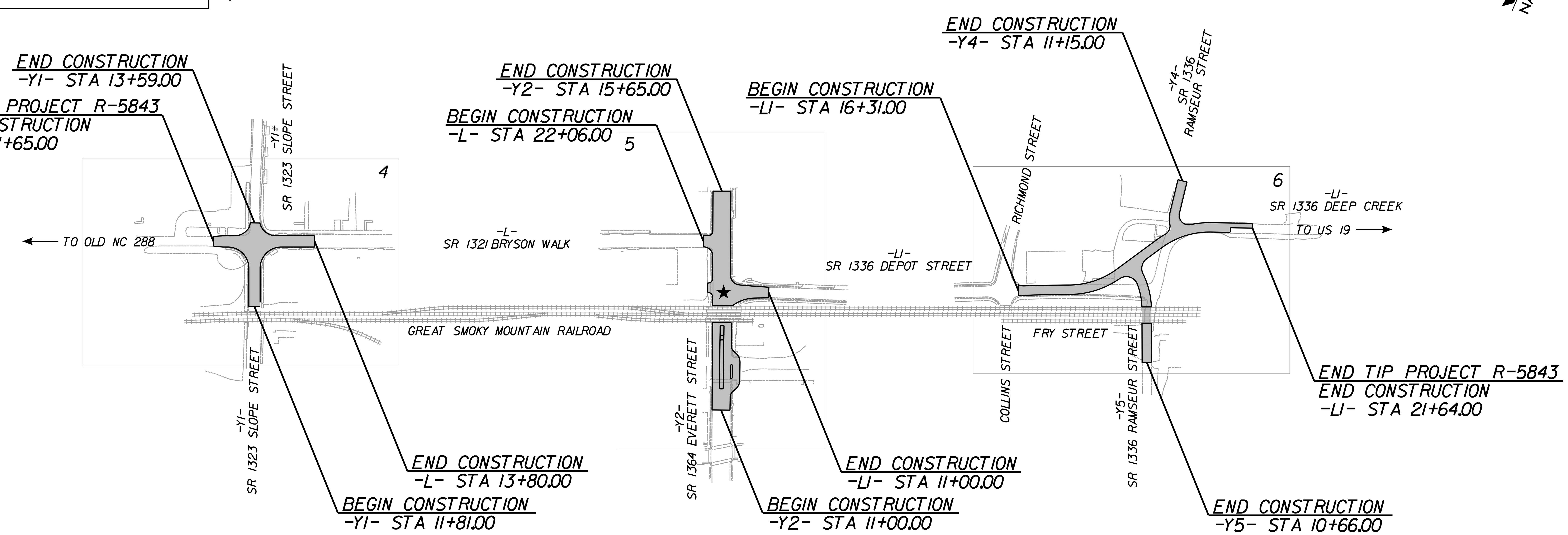


VICINITY MAP

LOCATION: INTERSECTIONS: SLOPE STREET (SR 1323) / BRYSON WALK (SR 1321)
EVERETT STREET (SR 1364) / DEPOT STREET (SR 1336)
DEPOT STREET (SR 1336) / RAMSEUR STREET (SR 1336)
DEEP CREEK ROAD (SR 1336) / RAMSEUR STREET (SR 1336)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, SIGNALS

NAD 83/11



★ TRAFFIC SIGNAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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11/11/2021

GRAPHIC SCALES

20 10 0 20 40
PLANS

20 10 0 20 40
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5843 = 0.343 MILES
TOTAL LENGTH TIP PROJECT R-5843 = 0.343 MILES

PLANS PREPARED FOR THE NCDOT BY:

Kimley»Horn
© 2018 Post Office Box 33068 Raleigh, North Carolina 27636 PE NO. F-0102

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 15, 2018

LETTING DATE:
JANUARY 11, 2021

CHARLES NUCKOLS, P.E.
PROJECT ENGINEER

CALEB LOWMAN, P.E.
PROJECT DESIGN ENGINEER

ANDREW BUCHANAN
NCDOT CONTACT

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 042551 ENGINEER BRYAN T. VICKERY
Bryan T. Vickery 11/11/2021
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL ENGINEER CHARLES A. NUCKOLS
Charles A. Nuckols II 11/11/2021
SIGNATURE: P.E.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-5843	1A

11/11/2021

INDEX OF SHEETS

GENERAL NOTES

2018 SPECIFICATIONS

EFFECTIVE: 01-16-18

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

SUPERELEVATION:

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

SHOULDER CONSTRUCTION:

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

SIDE ROADS:

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

SUBSURFACE DRAINS:

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

DRIVEWAYS:

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.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:
BALSAM WEST FIBER NET
BRYSON CITY - WATER AND SEWER
DUKE ENERGY
FRONTIER COMMUNICATIONS
DOMINION ENERGY
ZITO MEDIA

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:

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

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.
DETECTABLE DOME COLOR SHALL BE FEDERAL YELLOW (FS 33538)

EFF. 01-16-2018

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 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
815.02	Subsurface Drain
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.20	Frames and Wide Slot Flat Grates
840.24	Frames and Narrow Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
852.01	Concrete Islands
876.01	Rip Rap in Channels
876.04	Drainage Ditches with Class 'B' Rip Rap

PROJECT REFERENCE NO.	SHEET NO.
R-5843	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Computed Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil — S
- Potential Contamination Area: Soil — S
- Known Contamination Area: Water — W
- Potential Contamination Area: Water — W
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & 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 — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- New Control of Access — CA
- Existing Easement Line — E
- New Temporary Construction Easement — E
- New Permanent Sidewalk Easement — SWE
- New Permanent Drainage Easement — PDE
- New Permanent Retaining Wall Easement — RWE
- New Permanent Utility Easement — PUE
- New Temporary Utility Easement — TUE
- New Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

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

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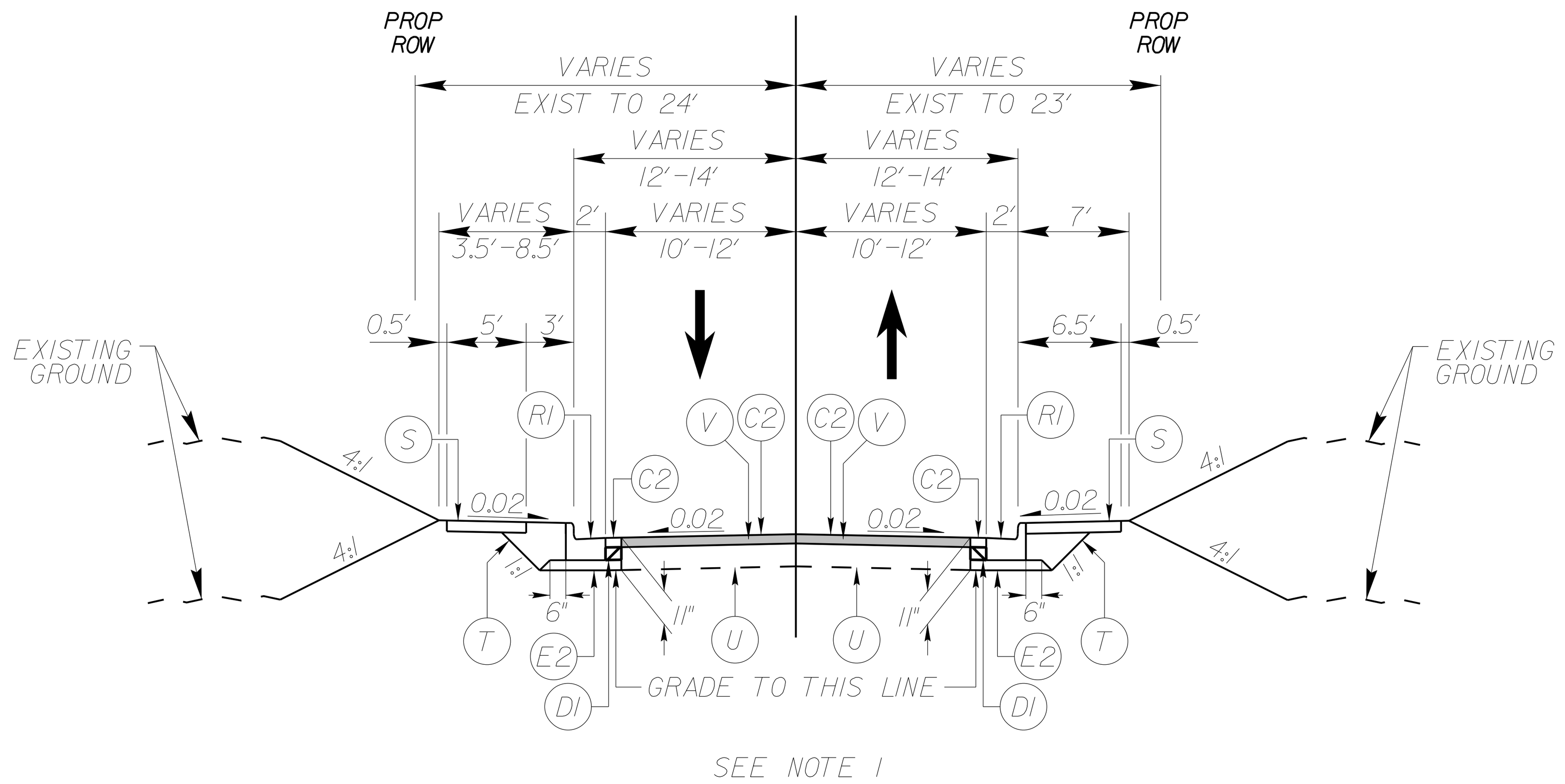
7/16/2019

PROJECT REFERENCE NO.	SHEET NO.
R-5843	2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Kimley»Horn

℄ -L- SR 1321 (BRYSON WALK)

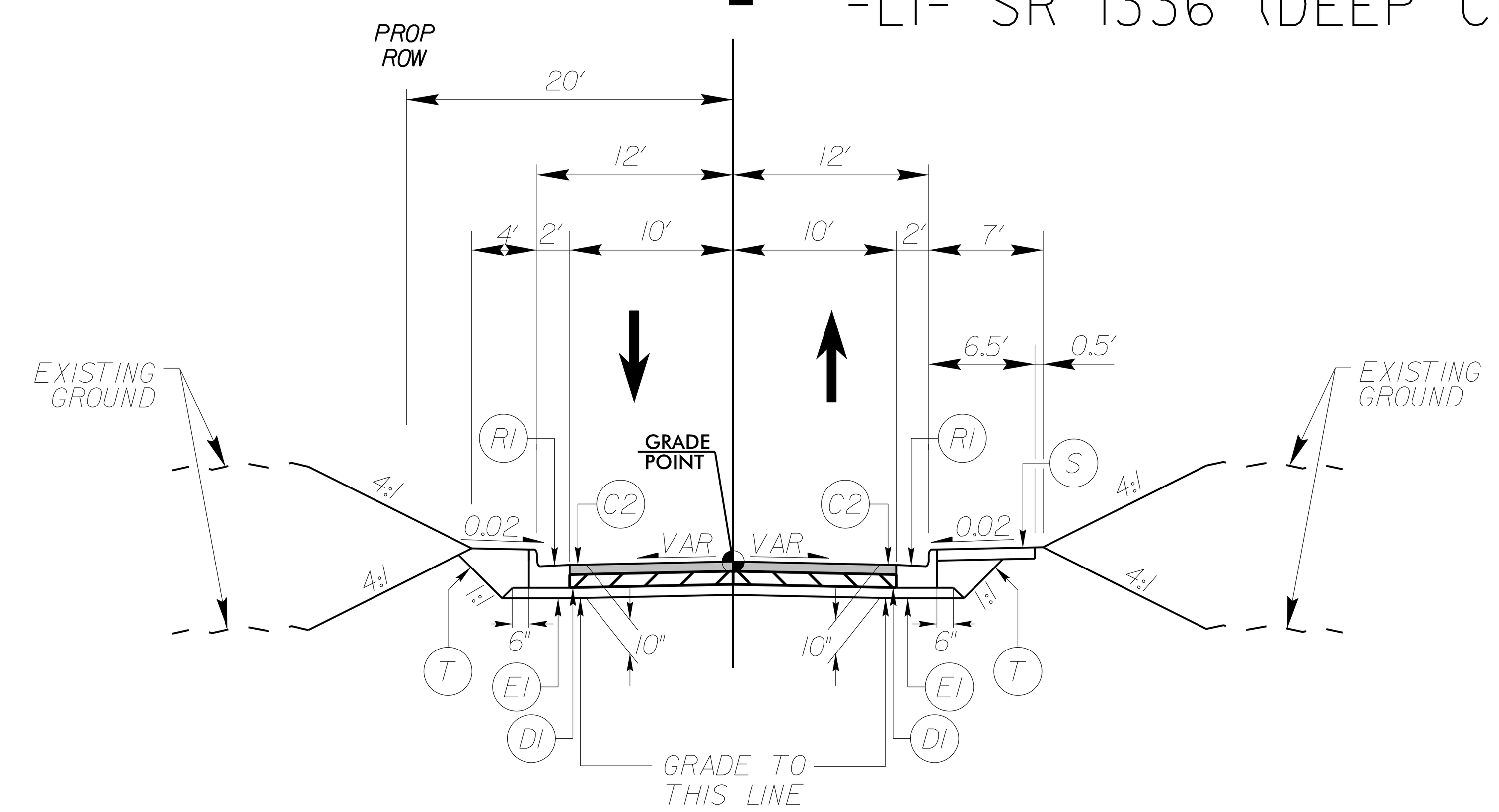


SEE NOTE 1

TYPICAL SECTION NO. 1

-L- STA 11+65.00 TO 13+80.00
-L- STA 22+06.00 TO 22+26.04

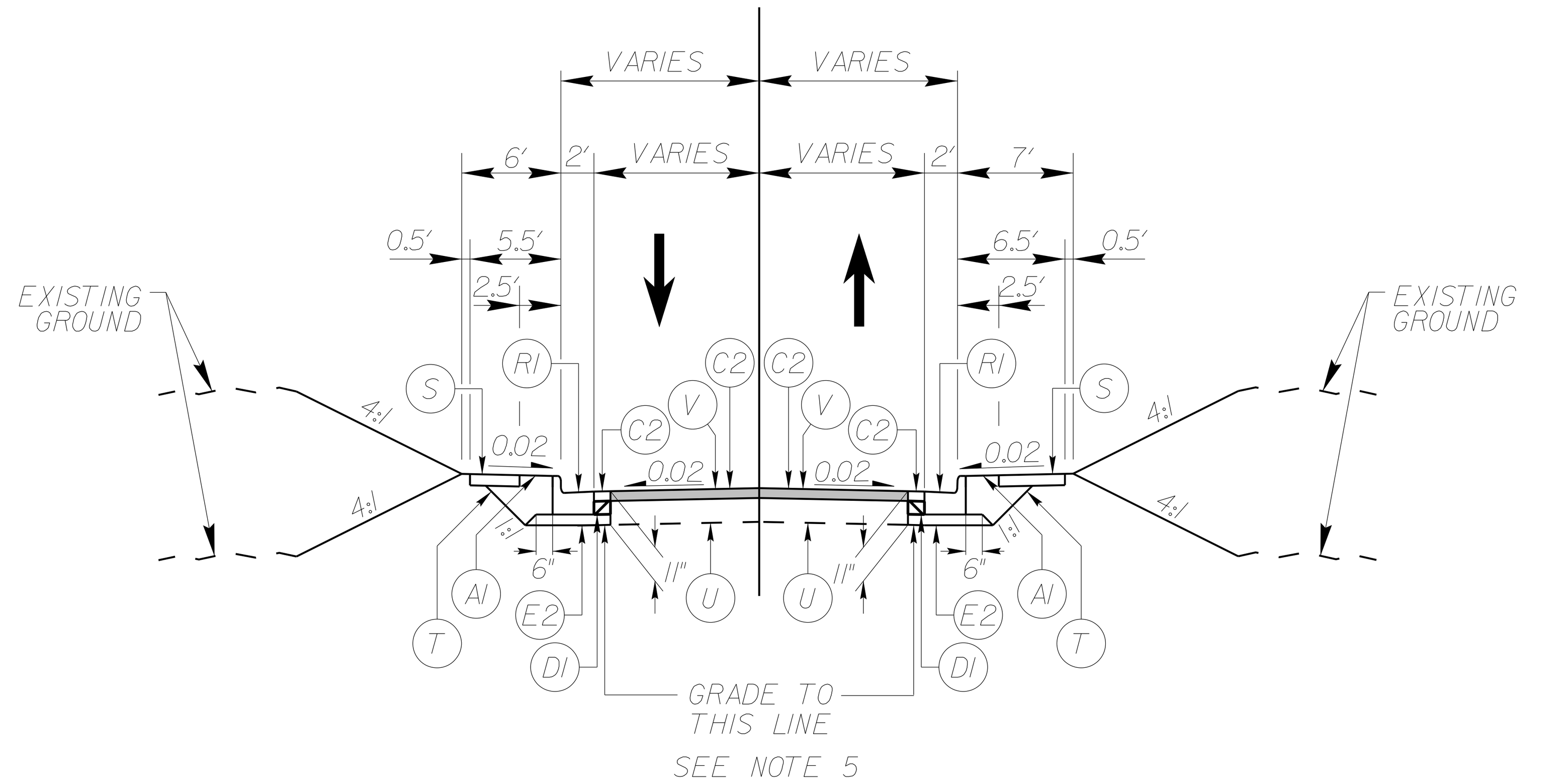
℄ -L1- SR 1336 (DEPOT STREET)
-L1- SR 1336 (DEEP CREEK ROAD)



TYPICAL SECTION NO. 4

-L1- STA 18+02.69 TO 19+69.86

℄ -L1- SR 1336 (DEPOT STREET)

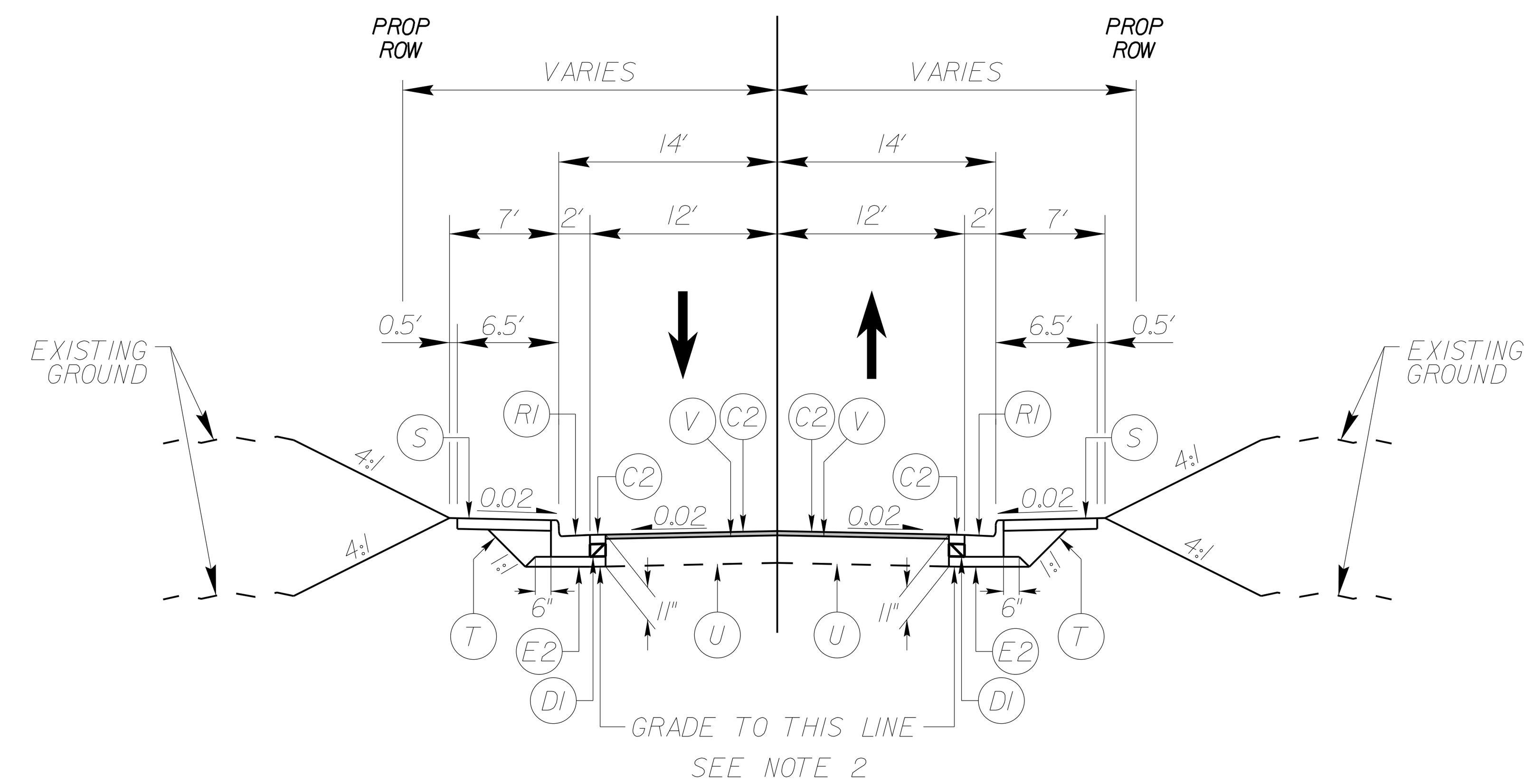


SEE NOTE 5

TYPICAL SECTION NO. 2

-L1- STA 10+17.85 TO 11+00.00

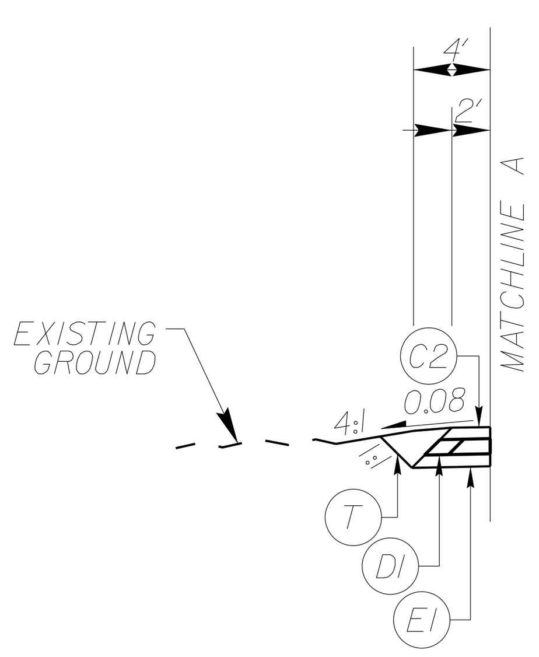
℄ -Y1- SR 1323 (SLOPE STREET)



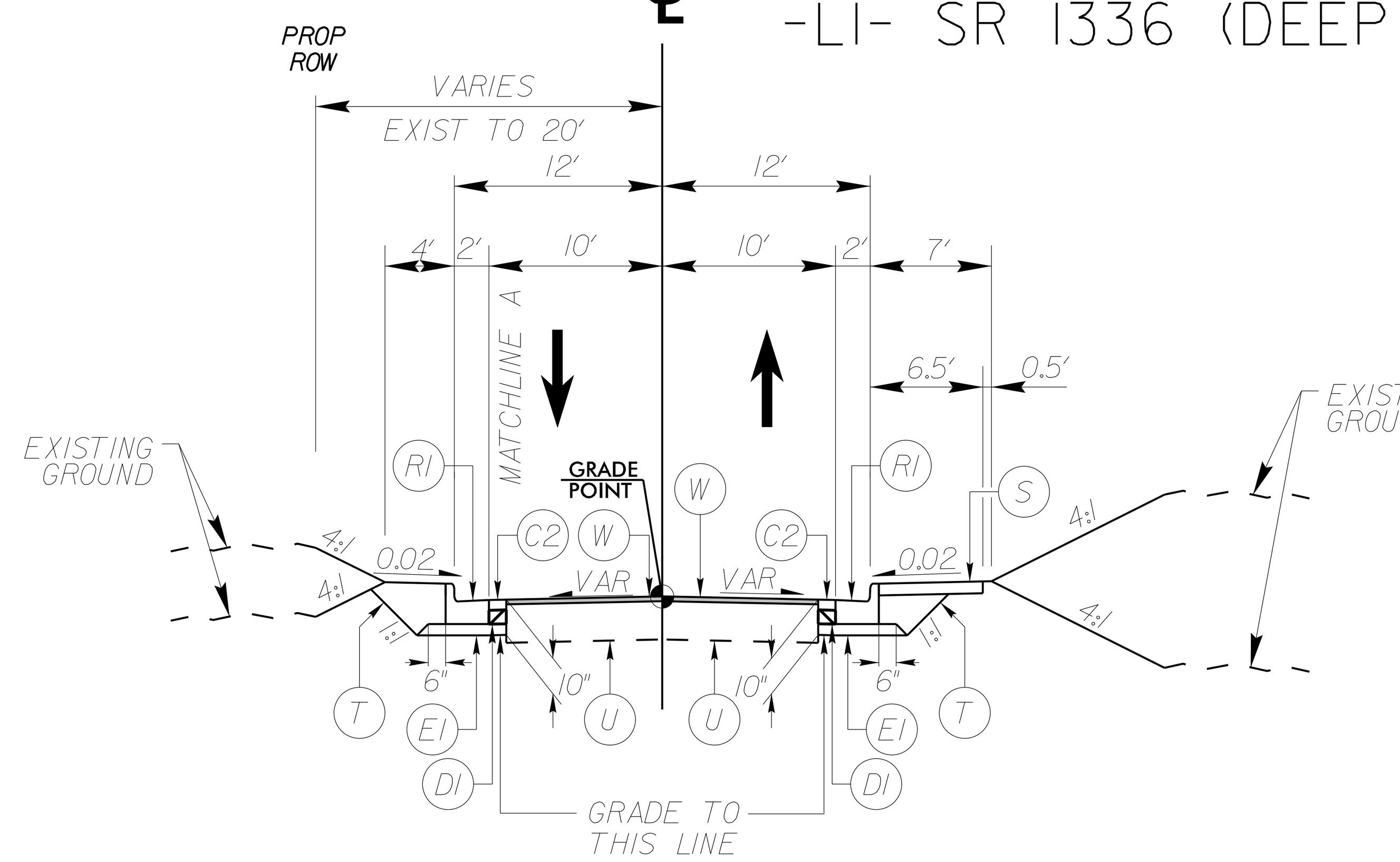
SEE NOTE 2

TYPICAL SECTION NO. 5

-Y1- STA 11+81.00 TO 13+07.76
-Y1- STA 13+31.52 TO 13+59.00



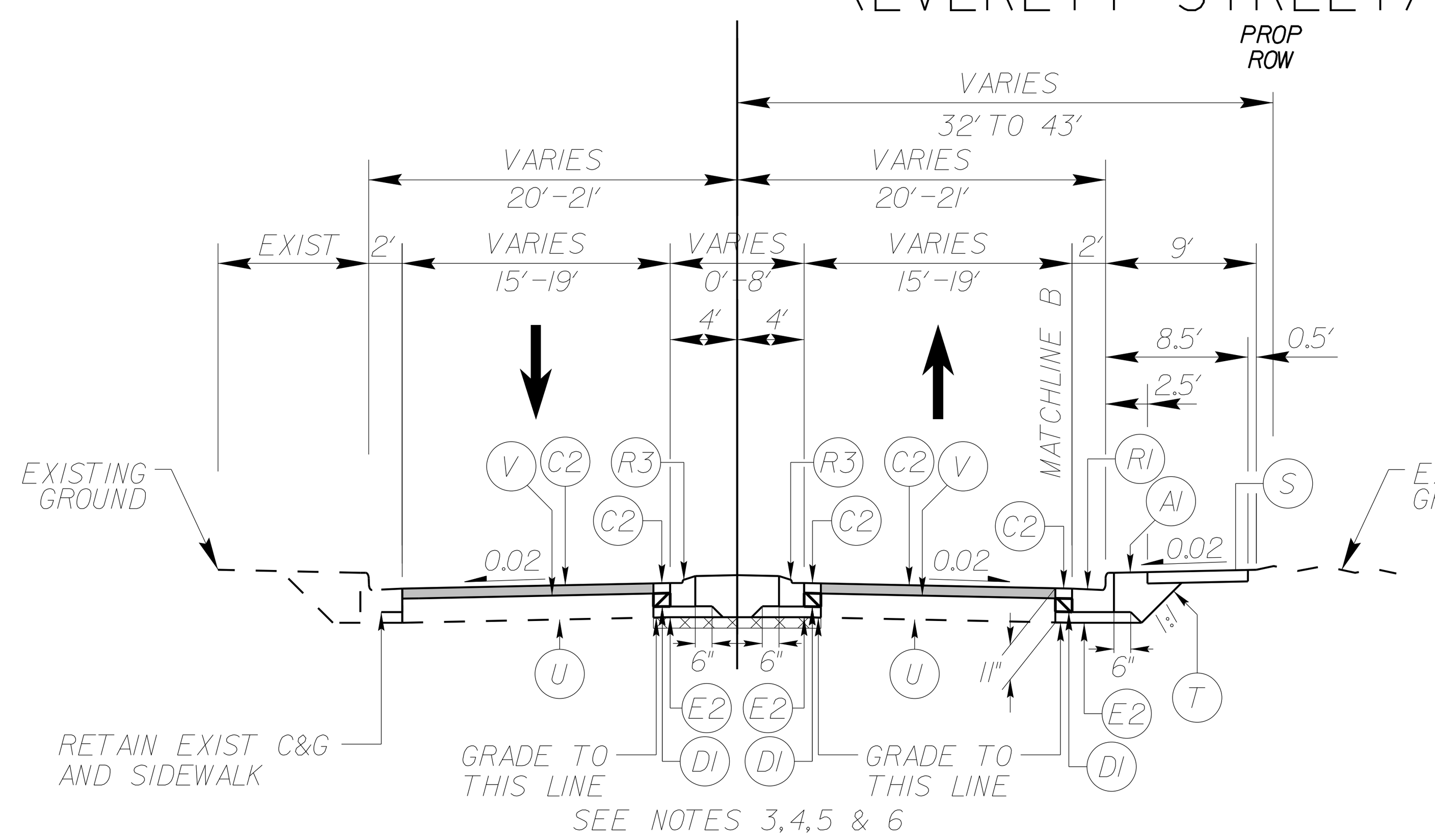
℄ -L1- SR 1336 (DEPOT STREET)
-L1- SR 1336 (DEEP CREEK ROAD)



TYPICAL SECTION NO. 3

-L1- STA 16+31.00 TO 18+02.69
-L1- STA 19+69.86 TO 21+17.00
-L1- STA 21+17.00 TO 21+64.00 LT

℄ -Y2- SR 1364 (EVERETT STREET)



SEE NOTES 3,4,5 & 6

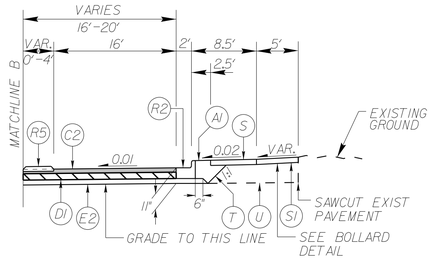
TYPICAL SECTION NO. 6

-Y2- STA 11+00.00 TO 11+27.90
-Y2- STA 12+37.05 TO 12+86.00

PAVEMENT SCHEDULE
(FINAL PAVEMENT DESIGN)

A1	BRICK PAVER (SEE DETAIL, SHEET 2B-1)
C1	PROPOSED APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROPOSED VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROPOSED APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROPOSED VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROPOSED APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E2	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E3	PROPOSED VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.
R1	PROPOSED 2'-6" CONCRETE CURB & GUTTER
R2	SPECIAL 2'-6" CONCRETE CURB & GUTTER (SPILL CURB) (SEE SHEET 2C-1)
R3	PROPOSED 1'-6" CONCRETE CURB & GUTTER
R4	PROPOSED 6" X 18" CONCRETE CURB
R5	PROPOSED 5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)
S	PROPOSED 4" CONCRETE SIDEWALK
S1	PROPOSED 4" CONCRETE
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING DETAIL FOR RESURFACING
V	MILLING EXISTING PAVEMENT (VAR.)

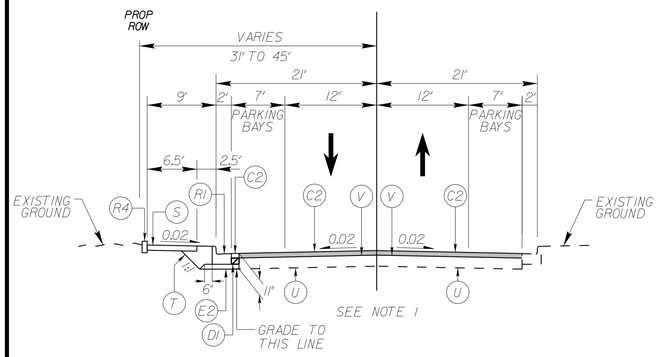
NOTES:
1. FOR -L- STA 11+65.00 TO 13+50.00 LT AND STA 11+65.00 TO 13+80.00 RT MAINTAIN CENTERLINE ELEVATION, VAR. DEPTH MILLING TO ESTABLISH 0.02 CROSS SLOPE.
2. FOR -Y1- STA 11+81.00 TO 13+07.75 AND STA 13+31.75 TO 13+59.00 MAINTAIN CENTERLINE ELEVATION, VAR. DEPTH MILLING TO ESTABLISH 0.02 CROSS SLOPE.
3. FOR -Y2- STA 11+27.90 TO 12+62.50 MAINTAIN CENTERLINE ELEVATION, VAR. DEPTH MILLING TO ESTABLISH 0.02 CROSS SLOPE.
4. SAWCUTS OF EXISTING PAVEMENT TO BE 1' (MINIMUM).
5. SEE PLAN VIEW FOR SPECIFIC LOCATIONS OF PROPOSED CURB AND GUTTER.
6. CONTRACTOR TO REMOVE ALL EXISTING PAVEMENT TO THE SUBGRADE WITHIN MEDIAN ISLAND AND REPLACE WITH TOPSOIL.
7. PAVEMENT EDGE SLOPES 1:1 UNLESS OTHERWISE INDICATED.



TYPICAL SECTION NO. 6A

-Y2- STA 11+27.90 TO 12+37.05 RT

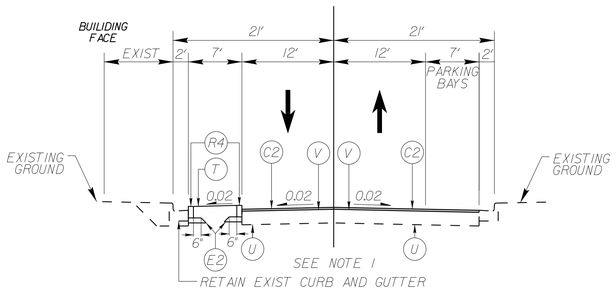
℄ -Y2- SR 1364 (EVERETT STREET)



TYPICAL SECTION NO. 7

-Y2- STA 13+22.00 TO 14+89.00

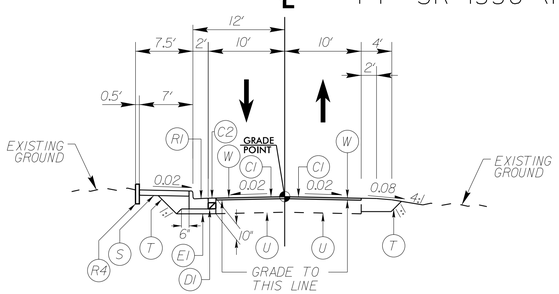
℄ -Y2- SR 1364 (EVERETT STREET)



TYPICAL SECTION NO. 7A

-Y2- STA 14+89.00 TO 15+65.00

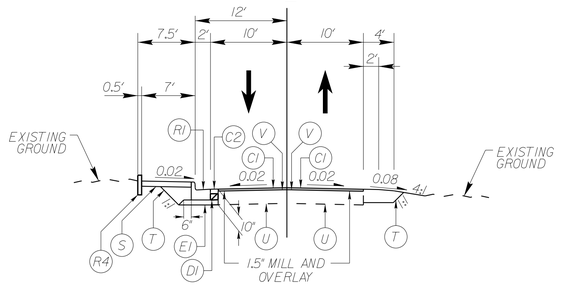
℄ -Y4- SR 1336 (RAMSEUR STREET)



TYPICAL SECTION NO. 8

-Y4- STA 10+10.00 TO 10+90.00

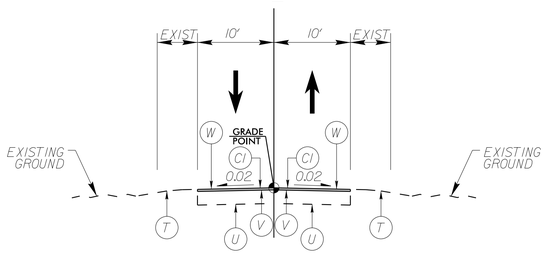
℄ -Y4- SR 1336 (RAMSEUR STREET)



TYPICAL SECTION NO. 9

-Y4- STA 10+90.00 TO 11+15.00

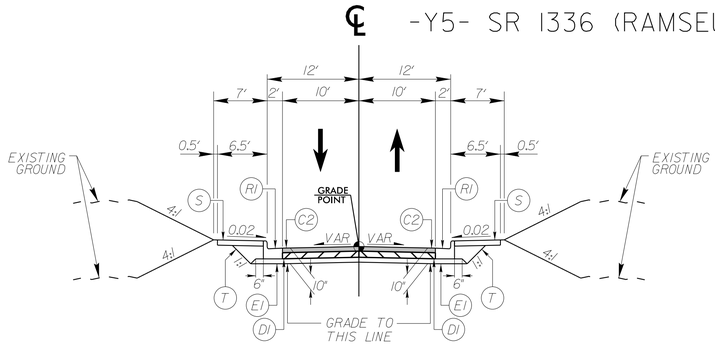
℄ -Y5- SR 1336 (RAMSEUR STREET)



TYPICAL SECTION NO. 10

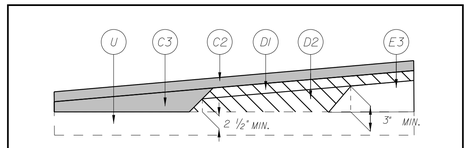
-Y5- STA 10+66.00 TO 11+49.74

℄ -Y5- SR 1336 (RAMSEUR STREET)

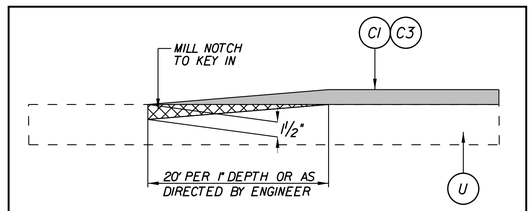


TYPICAL SECTION NO. 12

-Y5- STA 11+84.43 TO 12+72.18



WEDGING DETAIL (W) FOR RESURFACING



PROFILE KEY-IN DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-5843	2A-2

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 032480 ENGINEER CHARLES A. NUCKOLS
[DocuSigned by] Charles A. Nuckols III
3/16/2020

PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 032480 ENGINEER S.W. FARGHER
[DocuSigned by] S.W. Fargher
3/16/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Kimley»Horn

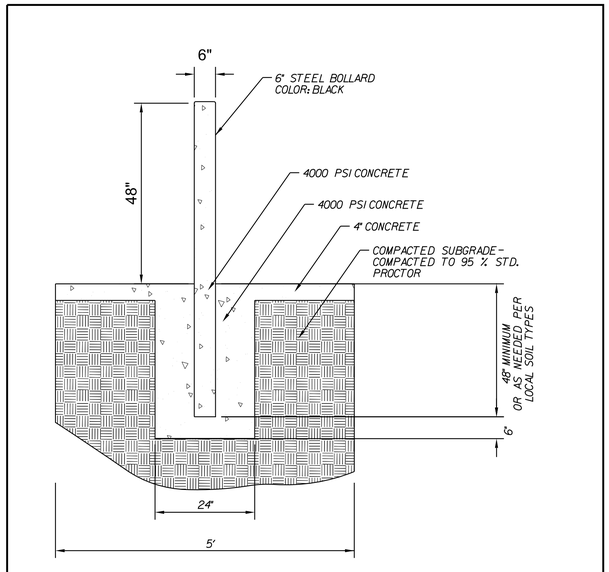
PAVEMENT SCHEDULE
(FINAL PAVEMENT DESIGN)

AI	BRICK PAVER (SEE DETAIL, SHEET 2B-1)
CI	1.5" S9.5C
C2	3" S9.5C
C3	VAR. DEPTH S9.5C
DI	4" ID9.0C
D2	VAR. DEPTH ID9.0C
EI	3" B25.0C
E2	4" B25.0C
E3	VAR. DEPTH B25.0C
RI	2'-6" CONCRETE CURB & GUTTER
R2	SPECIAL 2'-6" CONCRETE CURB & GUTTER (SPILL CURB) (SEE SHEET 2C-1)
R3	1'-6" CONCRETE CURB & GUTTER
R4	6" X 18" CONCRETE CURB
R5	5' MONOLITHIC CONCRETE ISLAND (KEYED-IN)
S	4" CONCRETE SIDEWALK
SI	4" CONCRETE
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING DETAIL FOR RESURFACING
V	MILLING EXISTING PAVEMENT (VAR.)

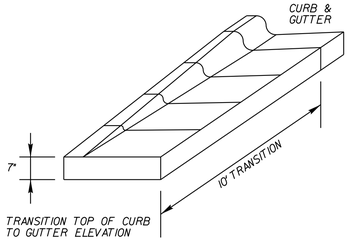
NOTES:
1. FOR -Y2- STA 11+27.90 TO 12+62.50 MAINTAIN CENTERLINE ELEVATION, VAR. DEPTH MILLING TO ESTABLISH 0.02 CROSS SLOPE.
2. FOR -Y2- STA 13+22.00 TO 15+48.00 MAINTAIN CENTERLINE ELEVATION, VAR. DEPTH MILLING TO ESTABLISH 0.02 CROSS SLOPE.
3. SAWCUTS OF EXISTING PAVEMENT TO BE 1' (MINIMUM).
4. SEE PLAN VIEW FOR SPECIFIC LOCATIONS OF PROPOSED CURB AND GUTTER.
5. PAVEMENT EDGE SLOPES 1:1 UNLESS OTHERWISE INDICATED.
6. SAWCUTS OF EXISTING PAVEMENT TO BE 1' (MINIMUM).

PROJECT REFERENCE NO.	SHEET NO.
R-5843	2B-1

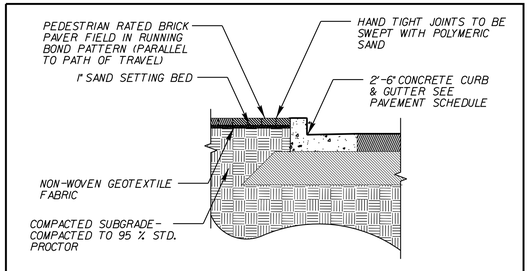
Kimley»Horn



STEEL BOLLARD DETAIL



CURB TRANSITION DETAIL



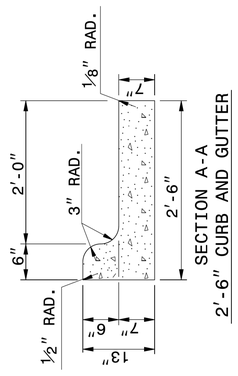
BRICK PAVER DETAIL

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

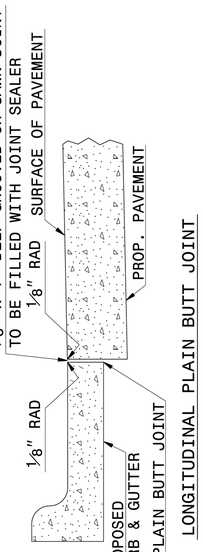
ENGLISH DETAIL DRAWING FOR
SPECIAL CURB & GUTTER
2'-6"

SHEET 1 OF 1
846d01

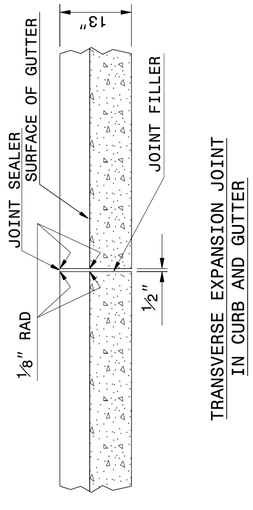
GENERAL NOTES:
-PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
-JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
-CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1½" DEEP.
-FILL ALL CONSTRUCTION JOINTS, WITH JOINT FILLER AND SEALER.
-SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



SECTION A-A
2'-6" CURB AND GUTTER



LONGITUDINAL PLAIN BUTT JOINT



TRANSVERSE EXPANSION JOINT
IN CURB AND GUTTER

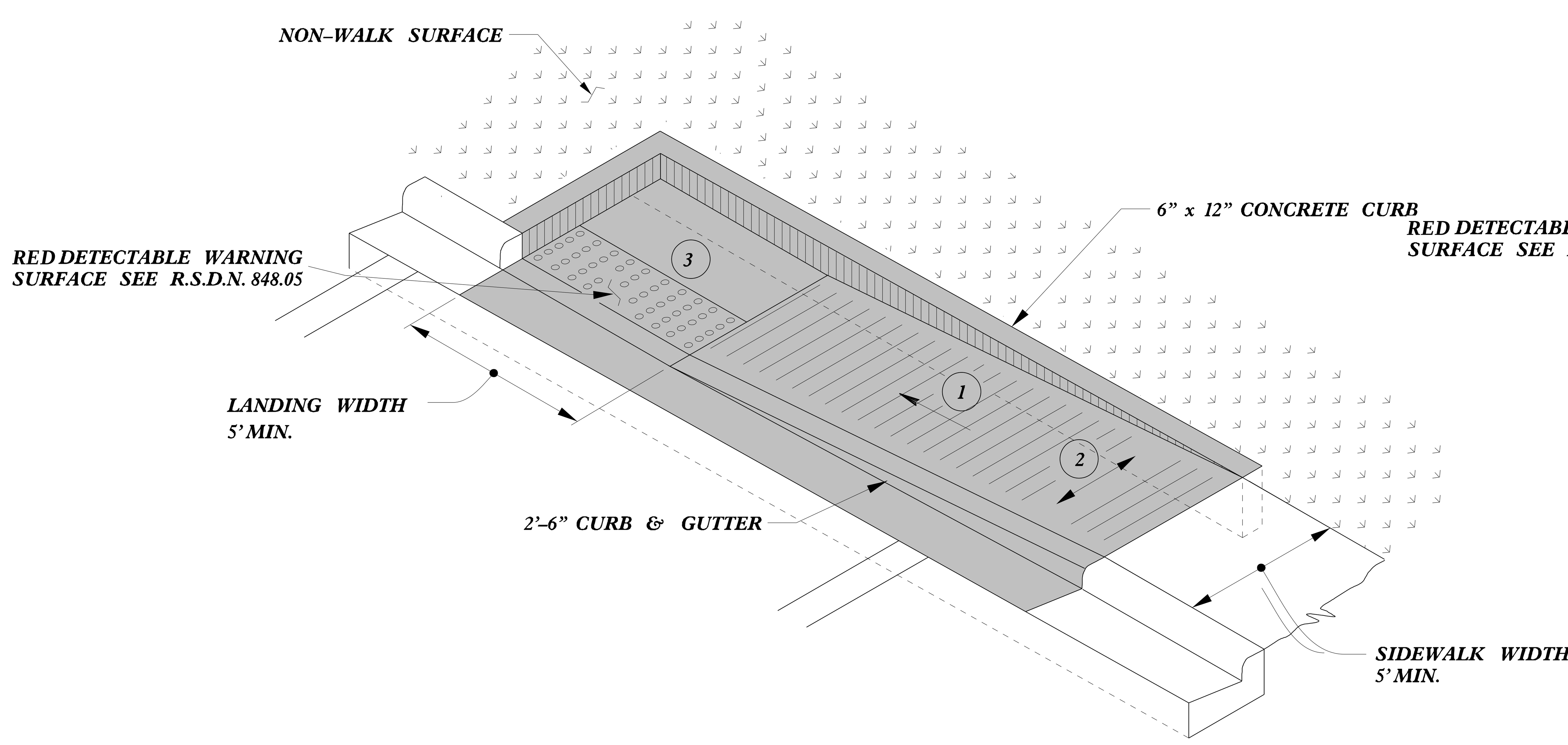
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
SPECIAL CURB & GUTTER
2'-6"

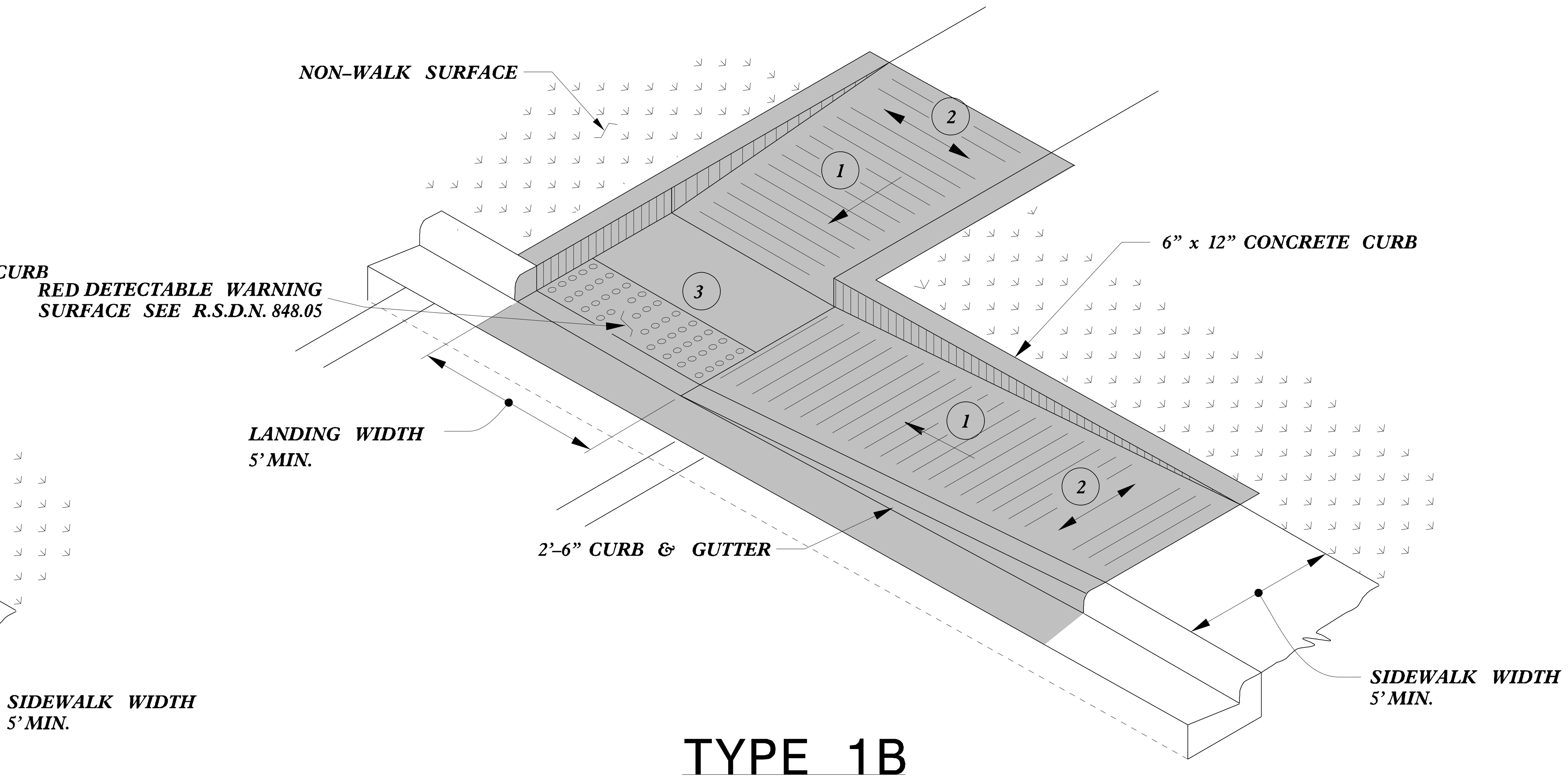
SHEET 1 OF 1
846d01

7/16/2019 K:\RAL_Roadway\DII036387 - Div 14 (R-5843 Bryson Int\Roadway\Pro\R-5843_rdy_2C-1.dgn

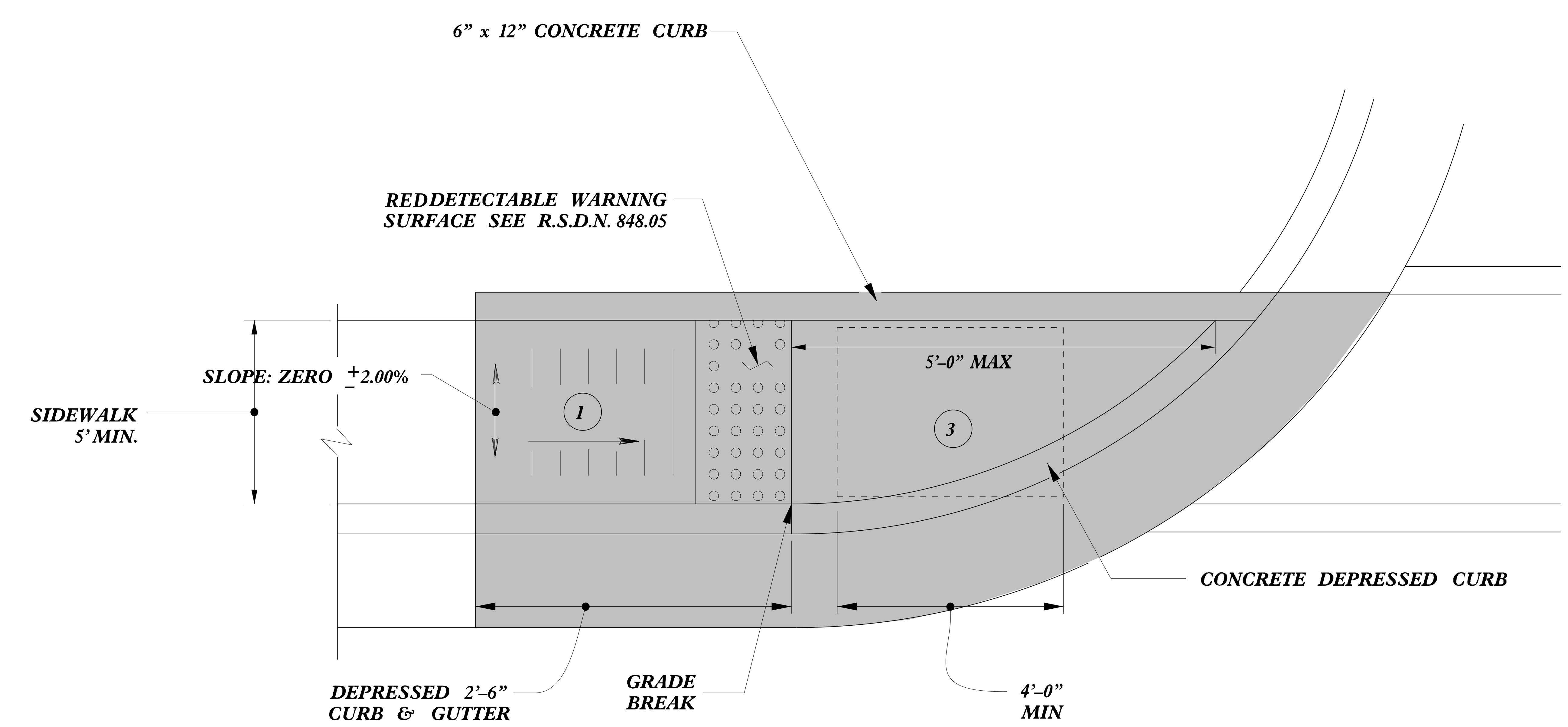
PROJECT REFERENCE NO.	SHEET NO.
R-5843	2C-1



TYPE 1A



TYPE 1B



TYPE 1

PAY LIMITS FOR 1 CURB RAMP

(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.*

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

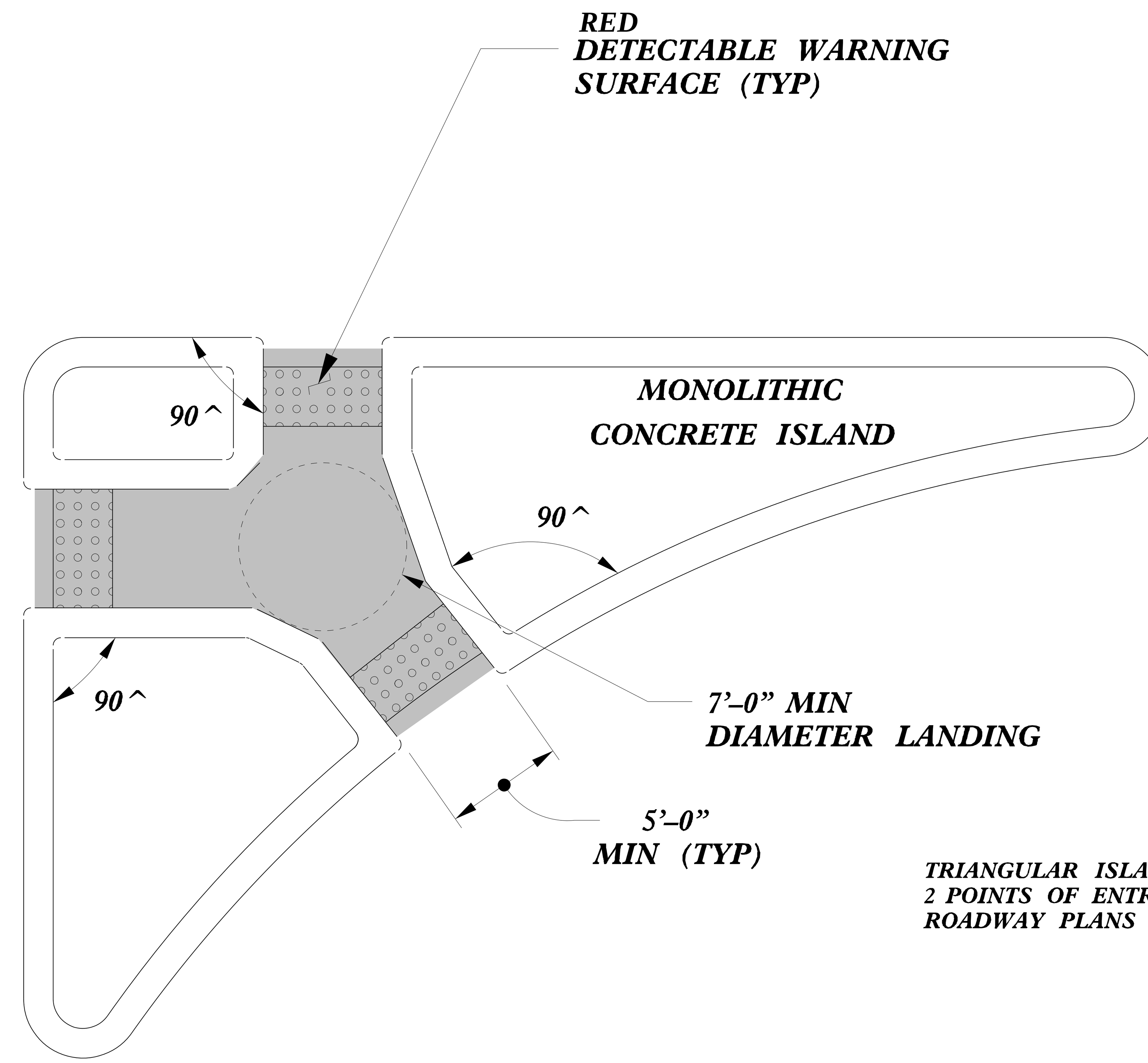
$$$$$$SYSTIME$$$$$$ $$$$$$DGN$$$$$$ $$$$$$USERNAME$$$$$$

5/14/99

5/14/99

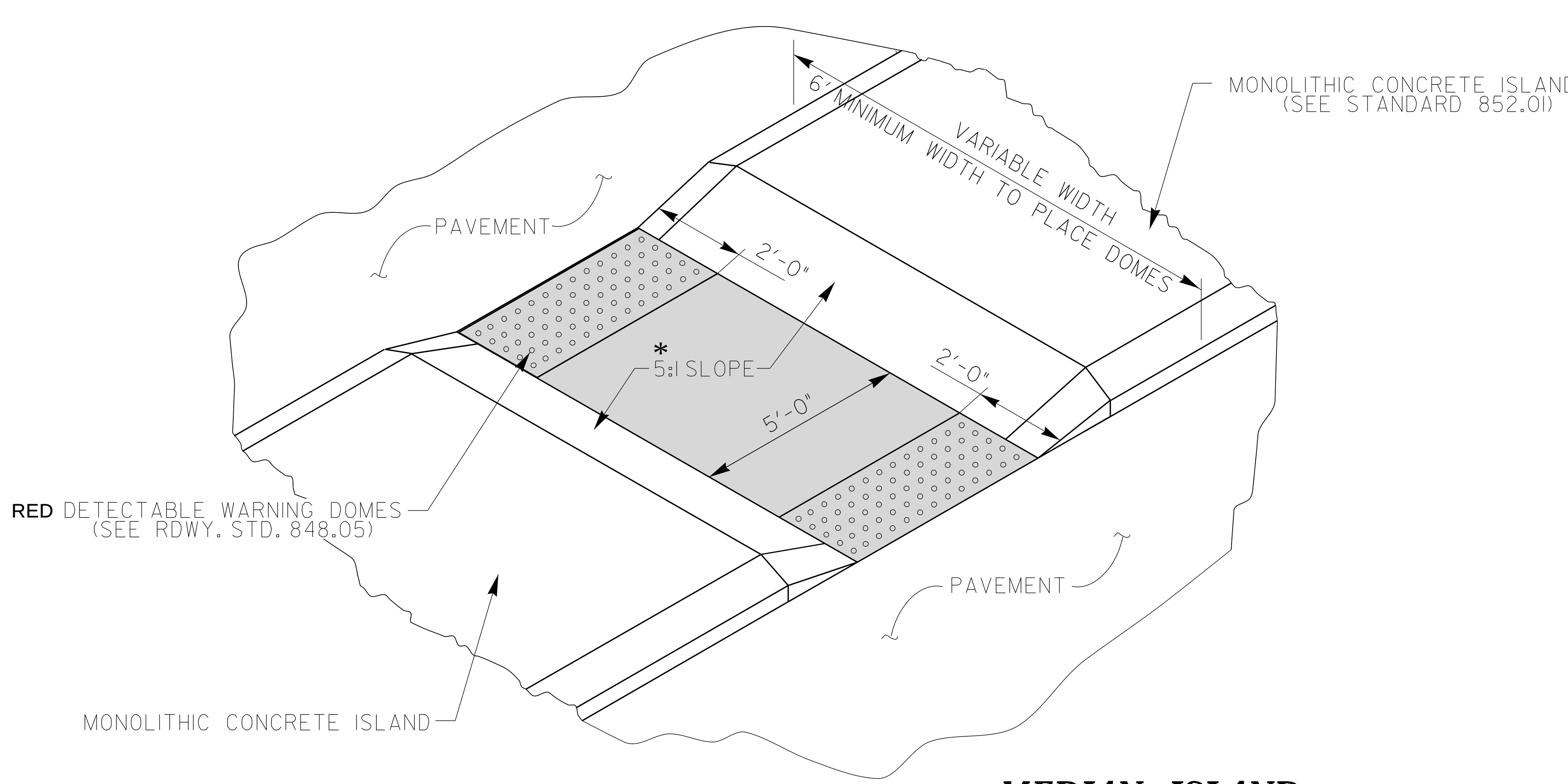
PROJECT REFERENCE NO.	SHEET NO.
R-5843	2C-2

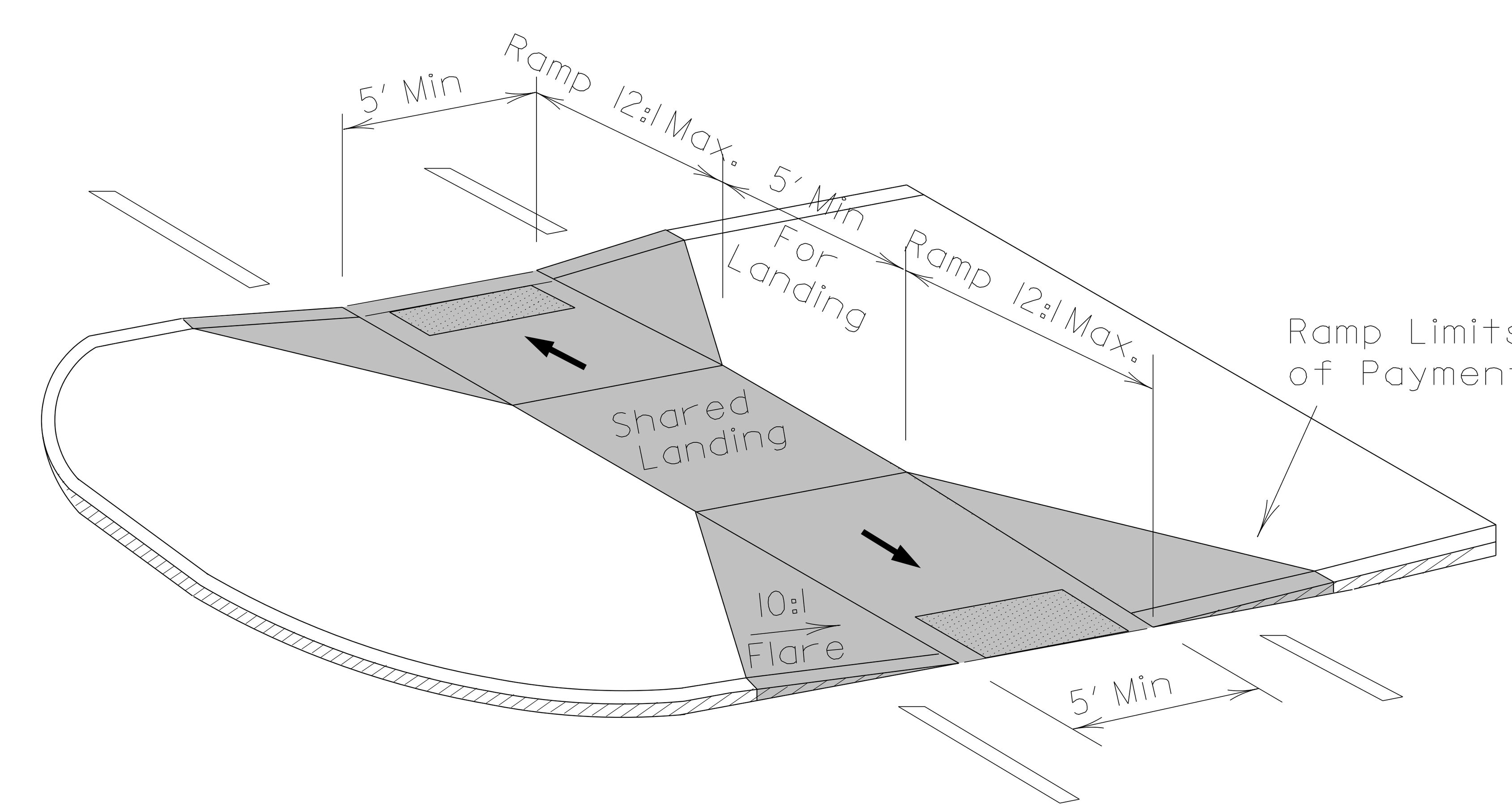
PAY LIMITS FOR 2 OR 3 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)



TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND WITH CUT THROUGH





MEDIAN ISLAND CURB RAMPS

* USE 8:1 SLOPES ON OUTER TRUCK APRON ON SW CORNER OF THE ROUNABOUT

MEDIAN ISLAND WITH CUT THROUGH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

CURB RAMPS

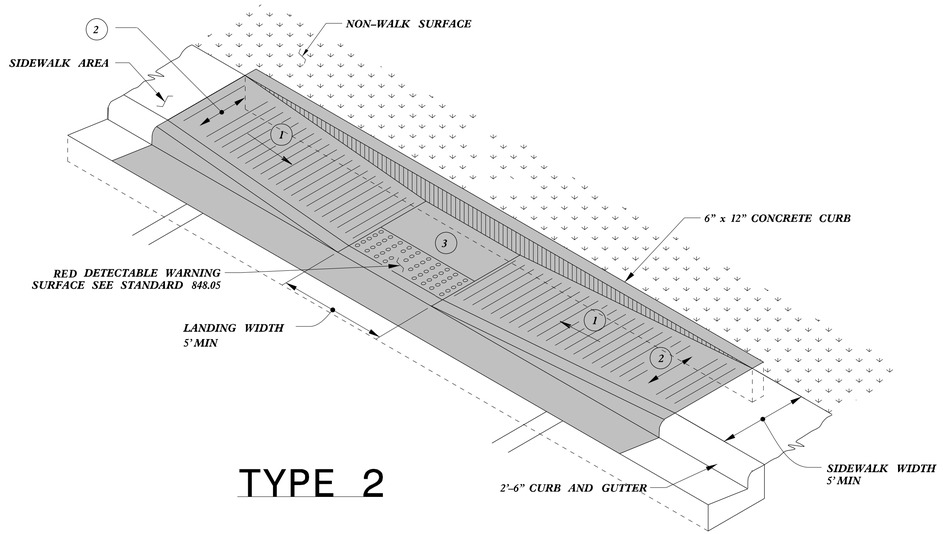
Median or Turn Lane Islands

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn

$$$$$SYSTIME$$$$ $$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$ $$$$USERNAME$$$$

5/14/99

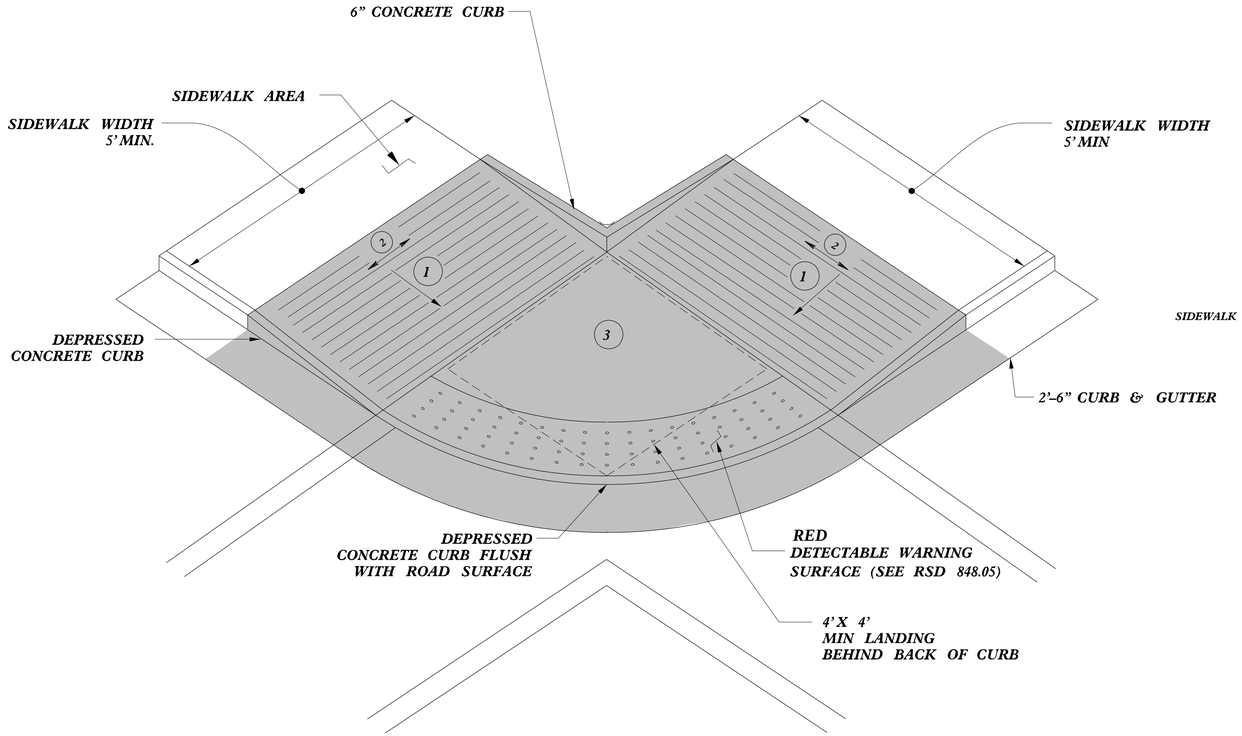
PROJECT REFERENCE NO.	SHEET NO.
R-5843	2C-3



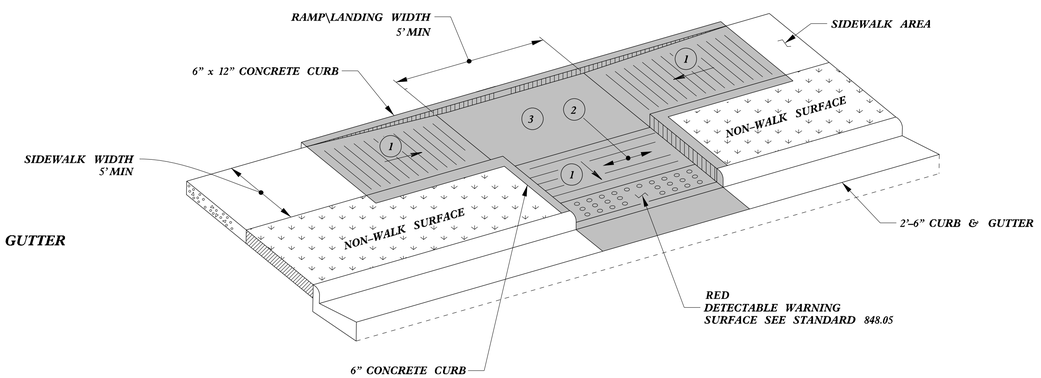
TYPE 2

PAY LIMITS FOR 1 CURB RAMP

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



TYPE 3

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

Parallel Ramps

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn

$$$$USERNAME$$$$
$$$$DGN$$$$
$$$$TIME$$$$
$$$$SYSTIME$$$$

COMPUTED BY: CDL DATE: 3/16/2020
CHECKED BY: CAN DATE: 3/16/2020

PROJECT REFERENCE NO.	SHEET NO.
R-5843	3B-1

Kimley»Horn

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT EXCAVATION	EMBANKMENT +15%	BORROW	TOTAL WASTE
SECTION 1					
-L- 11+65.00 TO 13+80.00	57		28		29
-L1- 10+17.85 TO 21+64.00	298	958	373	75	958
-Y1- 11+81.00 TO 13+59.00	61		23		38
-Y2- 11+00.00 TO 15+65.00	140		54		86
-Y4- 10+10.00 TO 11+15.00	9		17	8	
-Y5- 10+66.00 TO 12+69.44	32	242	44	12	242
TOTAL	597	1200	538	94	1353
WASTE IN LIEU OF BORROW				-94	-94
PROJECT TOTALS	597	1200	538		1259
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					
GRAND TOTALS	597	1200	538		1259
SAY	600	1200			1260
EST SHALLOW UNDERCUT	250 CY				

REMOVAL OF EXISTING ASPHALT PAVEMENT			
LINE	STATION TO STATION	LOCATION	SQ. YDS.
-L1-	18+13 TO 18+56	RT	76
-L1-	18+98 TO 19+75	RT	155
-Y1-	11+90 TO 12+23	LT	34
-Y1-	12+59 TO 12+65	LT	4
TOTAL			269

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT, WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

NOTE: ESP HAS DETERMINED THAT THERE IS NO PETROLEUM CONTAMINATED SOIL WITHIN THE PROJECT LIMITS.

NOTE: THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY ESP.

3/17/2020 K:\RAL_Roadway\011036387 - Div 14 (R-5843 Bryson Int\Roadway\Proj\R-5843_rdy_sum.dgn

D095622

COMPUTED BY: CDL DATE: 6/26/18
CHECKED BY: BTV DATE: 6/26/18

PROJECT NO.	SHEET NO.
R-5843	3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

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

LINE & STATION SIZE THICKNESS OR GAUGE	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	Drainage Pipe 15	Drainage Pipe 18	Drainage Pipe 24	C. S. PIPE 12 .064	C. S. PIPE 15 .064	C. S. PIPE 18 .064	C. S. PIPE 24 .064	R. C. PIPE CLASS III 12	R. C. PIPE CLASS III 15	R. C. PIPE CLASS III 18	R. C. PIPE CLASS III 24	R. C. PIPE CLASS IV 12	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV 36	R. C. PIPE CLASS V 12	R. C. PIPE CLASS V 15	R. C. PIPE CLASS V 18	R. C. PIPE CLASS V 24	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G	
L 11+91	14 RT	0402		1728.3																																			1	
L 11+93	14 LT	0403		1728.3																																		1		
L 11+93	21 LT	0404		1728.0																													1							
		0404	0403		1725.8	1725.5			8																															
L 11+63	14 RT	0405		1727.6																													1							
Y1 12+88	22 RT	0406		1728.2																													1			1	1			
L 13+09	14 RT	0407		1728.7																																				
L 13+00	14 LT	0408		1728.7																																				
L 12+84	40 RT	0415		1728.8																													1							
		0415	0406		1726.5	1726.2			12																															
L 13+13	29 RT	0416		1728.8																													1							
		0416	0407		1726.6	1725.3			16																															
L 13+25	28 LT	0417		1729.0																													1							
		0417	0408		1726.8	1726.1			28																															
Y2 13+86	21 LT	0502		1731.5																																				
L1 10+46	15 LT	0504		1731.8																																				
L1 10+46	21 RT	0505		1731.7																																				
L1 16+47	12 RT	0603		1733.8																													1			1			1	
L1 16+86	12 RT	0604		1734.1																																				
		0604	0608		1729.5	1729.1							12																											
L1 16+92	12 LT	0605		1734.3																													1			1		1		
		0605	0604		1729.9	1729.5															24																			
L1 16+51	18 LT	0606		1735.0																																				
L1 16+87	23 RT	0608		1734.2																													1	0.2						
L1 18+08	12 LT	0610		1734.3																													1			1		1		
		0610	0611		1730.0	1729.6																		24																
L1 18+00	12 RT	0611		1735.2																													1	0.6		1			1	
		0611	0609		1729.6	1729.1	0.3				24																													
L1 17+60	23 LT	0612		1733.3																													1							
		0612	0614		1731.1	1730.9			12																															
L1 18+65	12 LT	0613		1734.9																													1			1		1		
		0613	0623		1730.3	1730.1																		36																
L1 17+60	12 LT	0614		1734.1																													1			1		1		
		0614	0605		1730.9	1729.9															64																			
L1 19+22	12 RT	0615		1735.4																													1			1			1	
		0615	0620		1732.0	1731.3																76																		
L1 20+25	12 RT	0616		1736.0																													1			1			1	
		0616	0627		1733.0	1732.5	0.7														40																			
L1 20+27	22 LT	0617		1735.8																													1							
		0617	0616		1733.1	1733.0	0.7														32																			
Y5 12+34	12 LT	0618		1734.9																													1			1	1			
		0618	0619		1731.9	1731.4															32																			
Y5 11+98	12 LT	0619		1735.3																													1			1			1	
L1 18+45	12 RT	0620		1735.4																													1			1			1	
		0620	0611		1731.3	1730.1																48																		
Y5 11+95	30 RT	0621		1735.0																													1							
Y5 12+29	50 RT	0622		1735.1																																				
L1 18+25	12 LT	0623		1734.4																													1			1		1		
		0623	0610		1730.1	1730.0																		16																
L1 18+25	21 LT	0624		1734.1																													1							
SHEET TOTALS									76		24		12								192	124		76									23	0.8		13	2	6	7	

LINE & STATION	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO C.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	15" C.S. ELBOW	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 11+91	0402																																1									
L 11+93	0403																																1									
L 11+93	0404						1	1																																		
	0404	0403																																								
L 11+63	0405									1							1																									
Y1 12+88	0406																																									
L 13+09	0407																																		1							
L 13+00	0408																																		1							
L 12+84	0415						1	1																																		
	0415	0406																																								
L 13+13	0416						1	1																																		
	0416	0407																																								
L 13+25	0417						1	1																																		
	0417	0408																																								
Y2 13+86	0502																																		1							
L1 10+46	0504																																		1							
L1 10+46	0505																																		1							
L1 16+47	0603																																									
L1 16+86	0604																																		1							
	0604	0608																																			2					
L1 16+92	0605																																									
	0605	0604																																								
L1 16+51	0606							1																												1						
L1 16+87	0608																					1								1												
L1 18+08	0610																																									
	0610	0611																																								
L1 18+00	0611																																									
	0611	0609																																								
L1 17+60	0612						1	1																																		
	0612	0614																																								
L1 18+65	0613																																									
	0613	0623																																								
L1 17+60	0614																																									
	0614	0605																																								
L1 19+22	0615																																									
	0615	0620																																								
L1 20+25	0616																																									
	0616	0627																																								
L1 20+27	0617										1		1																													
	0617	0616																																								
Y5 12+34	0618																																									
	0618	0619																																								
Y5 11+98	0619																																									
L1 18+45	0620																																									
	0620	0611																																								
Y5 11+95	0621									1			1																													
Y5 12+29	0622																																									
L1 18+25	0623																																									
	0623	0610																																								
L1 18+25	0624						1	1																																		
SHEET TOTALS							6	7		2	1		2				1					1								1			2		6	1	2					

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT

LL20958

COMPUTED BY:	CDL	DATE:	6/26/18
CHECKED BY:	BTV	DATE:	6/26/18

PROJECT NO.	SHEET NO.
R-5843	3D-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

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

LINE & STATION	OFFSET	STRUCTURE NUMBER		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	MINIMUM REQUIRED SLOPE	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)				C. S. PIPE				R. C. PIPE CLASS III				R. C. PIPE CLASS IV						R. C. PIPE CLASS V				ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)	REINFORCED ENDWALLS	DRAINAGE STRUCTURE	QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)			C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03				CONCRETE TRANSITIONAL SECTION		OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO C.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	15" C.S. ELBOW	FLOWABLE FILL	CONCRETE COLLARS CL. "B" STD. 840.72	CONCRETE AND BRICK PIPE PLUG STD. 840.71	PIPE REMOVAL	REMARKS
SIZE THICKNESS OR GAUGE		FROM	TO	FT.	FT.	FT.	%	12	15	18	24	12 .064	15 .064	18 .064	24 .064	12	15	18	24	12	15	18	24	30	36	12	15	18	24	CY	CY	MASONRY CY	0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.		GRATE TYPE E	F	G		D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05																																		CY	CY	CY	LIN. FT.	
		0624	0623		1731.0	1730.9			8																																																																									
L1 18+66	22 LT	0625		1733.9																													1												1	1																																		
		0625	0613		1730.5	1730.3																		12																																																								
L1 19+28	104 LT	0626		1736.0																																																																												
L1 19+80	12 RT	0627		1735.6																													1			1			1																																												
		0627	0615		1732.3	1732.0																56																																																										
Y4 10+50	12 LT	0628		1736.7																													1			1		1																																													
		0628	0629		1733.7	1733.6															24																																																												
Y4 10+30	12 LT	0629		1736.6																													1			1		1																																													
		0629	0617		1733.6	1733.1															36																																																												
Y4 10+75	12 LT	0630		1736.9																													1			1		1																																													
		0630	0628		1733.9	1733.7															24																																																												
		0000																																																																													12	
		0000																																																																													44	
		0000																																																																													48	
		0000																																																																													16	
SHEET TOTALS									8												84	56		12									5			4		3	1						1	1																																		120	
PROJECT TOTALS									84		24		12								276	180		88									28	0.8		17	2	9	8						7	8		2	1		2				1					1							1	1			2		6	1	2				120	

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT

COMPUTED BY: CDL DATE: 3/16/2020
CHECKED BY: CAN DATE: 3/16/2020

PROJECT REFERENCE NO.	SHEET NO.
R-5843	3G-1

Kimley»Horn

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT	Drain Type* UD/BD/SD	LF
–L1–	18+03	19+69	LT	SD	180
–Y5–	12+35	12+92	LT	SD	60
CONTINGENCY				SD	200
				TOTAL LF	440
				SAY	440

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE / STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
–L1–	17+85	18+30			80	80	56		
–L1–	18+30	19+50					592		
–L1–	19+50	20+75			35	35	156		
–Y4–	10+10	10+40			35	35	38		
–Y5–	12+35	12+67					158		
CONTINGENCY					100	100	300		
			TOTAL CY/TONS/SY		250	250**	1300**	0	0
				SAY	250	250**	1300**		

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Geotextile for Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

THE FOLLOWING QUANTITIES ARE PER THE "GEOTECHNICAL REPORT – RECOMMENDATIONS" LETTER (DATED JUNE 2018)

ESTIMATED SHALLOW UNDERCUT = 250 CY
ESTIMATED CLASS IV SUBGRADE STABILIZATION = 250 TONS
ESTIMATED UNDERCUT EXCAVATION = 1,200 CY
ESTIMATED SELECT GRANULAR MATERIAL = 950 CY

3/17/2020 K:\RAL_Roadway\011036387 - Div 14 (R-5843 Bryson Int\Roadway\Proj\R-5843_rdy_sum.dgn

PROJ. REFERENCE NO.	SHEET NO.
R-5843	3P-1

Kimley»Horn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK
1	4	GAMBILL PROFESSIONAL PROPERTIES, LLC	DB 439 - PG 114
2	4	JOHNNY D. ENSLEY AND DENA L. ENSLEY	DB 377 - PG 868 TRACT 1-A
3	4	STEVEN AND TODD MATZ	DB 351 - PG 38 MB 1 PG 26B
4	4	MAX GENE MCLEOD	DB 204 - PG 618 MB 1 PG 26B
5	4	VALERIE L. ZMUDA AND BROOK J. STILLMAN	DB 421 - PG 011 MB 1 PG 26B
6	5	RAILROAD REALTY OF NORTH CAROLINA, LLC	DB 264 - PG 478 TRACT ONE
6	5	RAILROAD REALTY OF NORTH CAROLINA, LLC	DB 258 - PG 1 DB 461 - PG 268 DB 82 - PG 493
8	5	GREAT SMOKY MOUNTAIN RAILROAD, LLC (SOUTHERN RAILWAY COMPANY)	DB 74 - PG 360 DB 461 - PG 268
9	5	RICHARD ANGEL, LLC (A NORTH CAROLINA LIMITED LIABILITY COMPANY)	DB 371 - PG 870 TRACT ONE
10	5	P.C. DRAKE, LLC (A NORTH CAROLINA LIMITED LIABILITY COMPANY)	DB 411 - PG 62
11	5	THERESA SMITH WHITE	DB 320 - PG 180
12	6	WHISTLEPIG ALLEY, LLC (A NORTH CAROLINA LIMITED LIABILITY COMPANY)	DB 422 - PG 99 DB 405 - PG 439 DB 285 - PG 767
13	6	PATRICIA B. MONTEITH AND KIRISTIE MILLSAPS MONTEITH	DB 433 - PG 492 DB 402 - PG 48 DB 169 - PG 319
14	6	NBC HOLDING, LLC	DB 436 - PG 647 MB 4 PG 3017
15	6	SMOKY MOUNTAIN PROPERTIES, LLC (A NORTH CAROLINA LIMITED LIABILITY COMPANY)	DB 350 - PG 106 DB 34 - PG 528
16	6	MISSIONARY BAPTIST CHURCH	DB 49 - PG 314 DB 34 - PG 528
16Z	6	MISSIONARY BAPTIST CHURCH	DB 49 - PG 314 DB 34 - PG 528

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK

PROJECT REFERENCE NO.	SHEET NO.
R-5843	4

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042551 ENGINEER CHARLES I NUCKOLS JR
DocuSigned by: Charles I Nuckols III
3/16/2020

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042551 ENGINEER BRYAN T VICKERY
DocuSigned by: Bryan T Vickery
3/16/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Kimley»Horn

NAD 83/NA 2011

-Y1-		
PI Sta 10+84.24	PI Sta 14+06.11	PI Sta 15+74.77
△ = 4° 29' 14.7" (LT)	△ = 2° 46' 05.2" (RT)	△ = 2° 45' 05.6" (LT)
D = 2° 39' 53.7"	D = 1° 25' 56.6"	D = 1° 54' 35.5"
L = 168.39'	L = 193.25'	L = 144.07'
T = 84.24'	T = 96.64'	T = 72.05'
R = 2,150.00'	R = 4,000.00'	R = 3,000.00'
	DS = 25 MPH	
	-RR-	
	PI Sta 10+64.71	
	△ = 2° 54' 08.0" (RT)	
	D = 2° 14' 34.4"	
	L = 129.40'	
	T = 64.71'	
	R = 2,554.54'	

NOTE:
1. RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
2. CONTRACTOR TO STOP MILL AND OVERLAY AT EXISTING PAVEMENT JOINT AT EXISTING RAILROAD CROSSING
3. DURING PAVING OPERATIONS AND SIDEWALK CONSTRUCTION CONTRACTOR TO ADJUST WATER VALVES AS NECCESSARY
4. DURING CONSTRUCTION CONTRACTOR TO ADJUST WATER METERS AS NECESSARY

CONCRETE SIDEWALK

-R5843-2

PROJECT REFERENCE NO.	SHEET NO.
R-5843	5

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042255 ENGINEER CHARLES A. NUCKOLS, II
DocuSigned by: Charles A. Nuckols II
3/16/2020

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042255 ENGINEER BRYAN T. VICKERY
DocuSigned by: Bryan Vickery
3/16/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Kimley»Horn

NAD 83/NA 2011

GREAT SMOKY MOUNTAIN RAILROAD R/W -- 200 FEET WIDE -- D.B.199-PG.513 AS PER SOUTHERN RAILROAD VALUATION MAP V53-16 DATED MAY 5, 1948

GREAT SMOKY MOUNTAIN RAILROAD

20+00

15+00

JEREMY DANIEL BAILEY
DB 414 PG 962
DB 129 PG 381

PATRICIA HARRIS TAGLIARINI
DB 458 PG 171

DAVID E. GENTRY AND WIFE BELINDA GENTRY
DB 270 PG 946

⑥ RAILROAD REALTY OF NORTH CAROLINA, LLC
DB 264 PG 478
TRACT ONE

⑨ RICHARD ANGEL, LLC A NORTH CAROLINA LIMITED LIABILITY COMPANY
DB 371PG 870
TRACT ONE

ENTWOOD ENTERPRISES, LLC
DB 414 PG 901
DB 136 PG 91

⑪ THERESA SMITH WHITE
DB 320 PG 180

EDWARD H. J. KING AND WIFE DEBORA L. KING
DB 226 PG 370

TOOT HOLLOW BRANCH

-Y2- SR 1364 EVERETT STREET N 24° 18' 30.6" W

-Y2- PINC Sta. 12+86.38

BEGIN CONSTRUCTION -Y2- STA 11+00.00

-Y2- SR 1364 EVERETT STREET N 22° 38' 49.7" W

100' TRANS.LT

BEGIN CONSTRUCTION -Y2- STA 13+22.00

SR 1321 BRYSON WALK N 66° 36' 54.7" E

BEGIN CONSTRUCTION -L- STA 22+06.00

BM #2
-Y2- STA 14+81.29 38.30' LT
ELEV. 1736.4
USGS MON. J37-1932

-Y2- SR 1364 EVERETT STREET N 23° 10' 27.4" W

END CONSTRUCTION -Y2- STA 15+65.00

END CONSTRUCTION -Y2- STA 12+86.00

END CONSTRUCTION -LI- STA 11+00.00

-L- POT Sta. 22+45.15 = -Y2- POT Sta. 14+58.75
Δ = 90°12'38.0"

-LI- POT Sta. 10+00.00 = -Y2- PINC Sta. 13+53.96
Δ= 86°50'03.9"

-Y2- POT Sta. 16+75.03

-LI- SR 1336 DEPOT STREET N 68° 51' 25.6" E

-RR- N 66° 42' 58.0" E

FRY STREET

BEGIN 1'-6" C&G -Y2- STA.11+45.00

BEGIN 2'-6" SPILL C&G
BEGIN SIDEWALK -Y2- STA 11+27.90
TIE TO EXIST
SEE DETAIL SHEET 2B-1

END 1'-6" C&G -Y2- STA.12+80.00

BEGIN 1'-6" C&G -Y2- STA.12+34.00

END 1'-6" C&G -Y2- STA.12+24.00

END 2'-6" SPILL C&G -Y2- STA 12+37.05 TIE TO EXIST SEE DETAIL SHEET 2B-1

PLACE BOLLARDS -Y2- STA 11+65 TO 12+10 AT 5' SPACING SEE DETAIL SHEET 2B-1

DO NOT DISTURB BUILDING

SODDING

1'-6" C&G

4' MONO ISLAND

2'-6" SPILL CURB

TIE TO EXIST RAILROAD CROSSING

RAILROAD GATE AND SIGNAL WORK TO BE COMPLETED BY OTHERS

RETAIN

PROP MAST ARM (SEE SIGNAL PLANS)

TIE 2'-6" C&G TO 8"x18" HEADER CURB

8"x18" HEADER CURB

END 2'-6" C&G -L- STA 22+06.00 TIE TO EXIST

REMOVE AND RESET WHEEL STOPS (TYP)

6.5' CONC SIDEWALK

ADJUST CB

2'-6" C&G

END 2'-6" C&G -Y2- STA 14+83.00 TIE TO EXIST

RETAIN EXISTING WOODEN CANOPY SUPPORTS

MAINTAIN EXISTING CURB AND GUTTER
PLACE HEADER CURB ON EXISTING EDGE OF TRAVEL

-BY2-13

END C&G TRANS. -LI- STA 10+25.22

RETAIN EXIST JB

BEGIN C&G TRANS. -LI- STA 10+33.49

6' CONC SIDEWALK

8"x18" HEADER CURB

END 2'-6" C&G LT END SIDEWALK -LI- STA 10+60.50 TIE TO EXIST

END 2'-6" C&G RT END SIDEWALK -LI- STA 10+60.50 TIE TO EXIST

END 2'-6" C&G -Y2- STA 13+86.01 TIE TO EXIST RETAIN CB

8"x18" HEADER CURB TIE TO EXIST STEPS

DO NOT DISTURB BUILDING OR LANDSCAPING

P.C. DRAKE, LLC A NORTH CAROLINA LIMITED LIABILITY COMPANY ⑩
DB 411 PG 62

NO ASSOCIATED LINE OR RECORD AVAILABLE FOR THIS STRUCTURE

SMITH & COMPANY ACCOUNTANTS INC.
DB 309 PG 312
DB 120 PG 469

300 EVERETT STREET, INC A NORTH CAROLINA CORPORATION
DB 391PG 1043
DB 51PG 333
DB 51PG 138
MB 1PG 38

ANTHONY VISCUSI
DB 286 PG 45

ROLLON SMITH AND WIFE SHERRY W. SMITH
DB 21PG 339
TRACT 1-A

⑧ GREAT SMOKY MOUNTAINS RAILROAD, LLC (SOUTHERN RAILWAY COMPANY)
DB 74 PG 360
DB 461 PG 268

⑥ RAILROAD REALTY OF NORTH CAROLINA, LLC
DB 258 PG 1
DB 82 PG 493
DB 461 PG 268

TR5843-1

TRAFFIC SIGNAL

NOTES:
1. RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
2. CONTRACTOR TO INSTALL CONCRETE PARKING BUMPERS 3' FROM FACE OF CURB FROM -L- STA 30+25 TO 33+25 (RT)
3. CONTRACTOR TO STOP MILL AND OVERLAY AT EXISTING PAVEMENT JOINT AT EXISTING RAILROAD CROSSING
4. DURING PAVING OPERATIONS AND SIDEWALK CONSTRUCTION CONTRACTOR TO ADJUST WATER VALVES AS NECESSARY.
5. DURING CONSTRUCTION CONTRACTOR TO ADJUST WATER METERS AS NECESSARY
6. CONTRACTOR TO PLACE BRICK PAVERS ALONG PROJECT LIMITS OUTSIDE OF CURB RAMPS PER DETAIL
7. CONTRACTOR TO REMOVE PAVEMENT AND SUBGRADE IN LANDSCAPE BEDS
8. CONTRACTOR TO AVOID IMPACTING DOLLAR GENERAL SIGN

BRICK PAVERS

CONCRETE SIDEWALK

5" MONOLITHIC CONCRETE ISLAND

DocuSign Envelope ID: B231273D-9A14-4B7F-97FF-73D1B25764AE

PROJECT REFERENCE NO.	SHEET NO.
R-5843	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041845 ENGINEER CHARLES A. NUCKOLS, II 3/16/2020	NORTH CAROLINA PROFESSIONAL SEAL 042553 ENGINEER BRYAN T. VICKERY 3/16/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

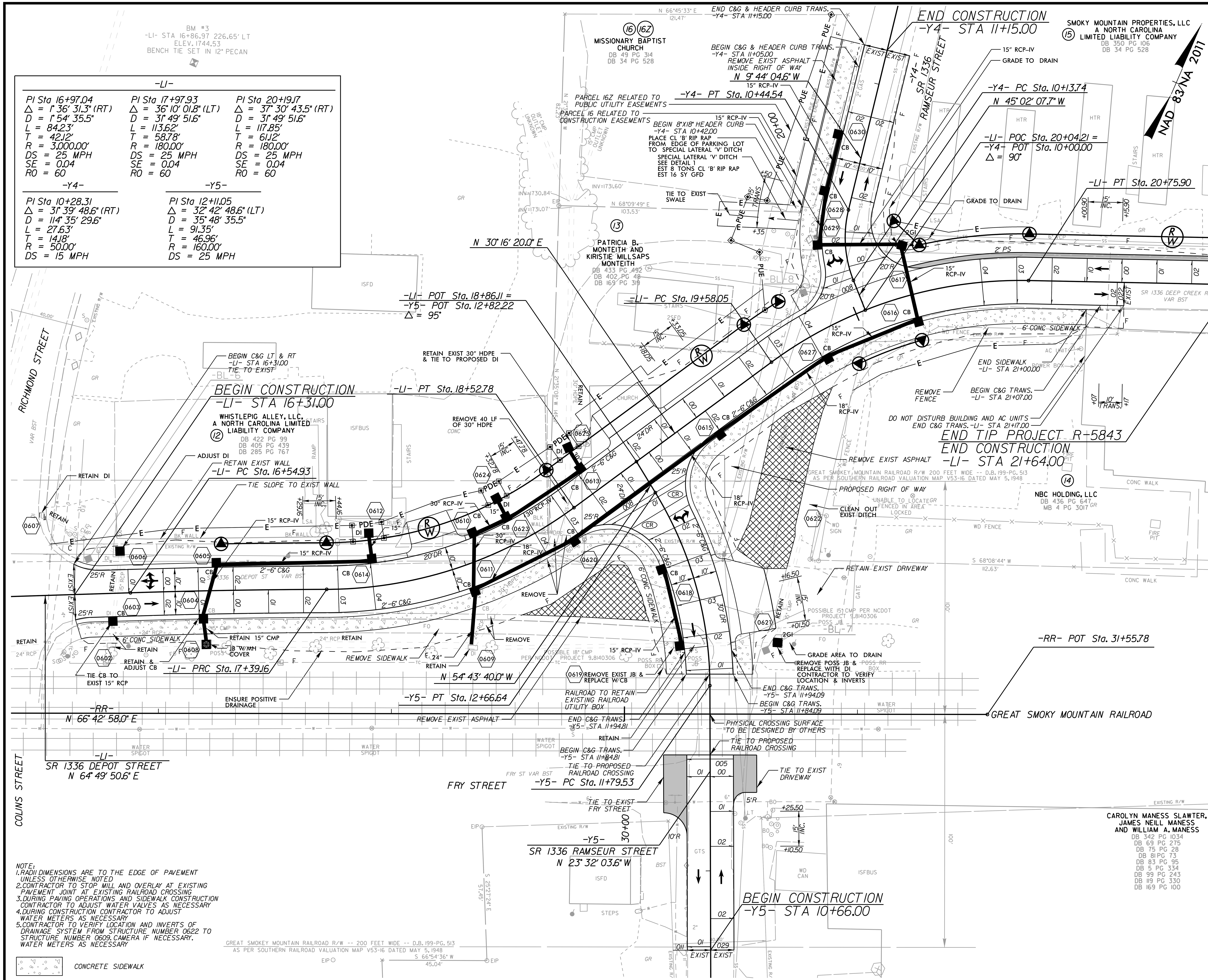
Kimley»Horn

BM #3
-L1- STA 16+86.97 226.65' LT
ELEV. 1744.53
BENCH TIE SET IN 12" PECAN

-L1-

PI Sta 16+97.04	PI Sta 17+97.93	PI Sta 20+19.17
Δ = 1° 36' 31.3" (RT)	Δ = 36° 10' 01.8" (LT)	Δ = 37° 30' 43.5" (RT)
D = 1° 54' 35.5"	D = 31° 49' 51.6"	D = 31° 49' 51.6"
L = 84.23'	L = 113.62'	L = 117.85'
T = 42.12'	T = 58.78'	T = 61.12'
R = 3,000.00'	R = 180.00'	R = 180.00'
DS = 25 MPH	DS = 25 MPH	DS = 25 MPH
SE = 0.04	SE = 0.04	SE = 0.04
RO = 60	RO = 60	RO = 60

-Y4-	-Y5-
PI Sta 10+28.31	PI Sta 12+11.05
Δ = 31° 39' 48.6" (RT)	Δ = 32° 42' 48.6" (LT)
D = 114° 35' 29.6"	D = 35° 48' 35.5"
L = 27.63'	L = 91.35'
T = 14.18'	T = 46.96'
R = 50.00'	R = 160.00'
DS = 15 MPH	DS = 25 MPH

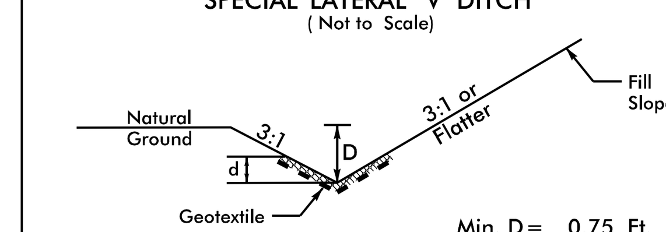


END CONSTRUCTION -Y4- STA 11+15.00
END C&G & HEADER CURB TRANS. -Y4- STA 11+15.00
BEGIN C&G & HEADER CURB TRANS. -Y4- STA 11+05.00
REMOVE EXIST ASPHALT INSIDE RIGHT OF WAY
N 9° 44' 04.6" W
-Y4- PT Sta. 10+44.54
-Y4- PC Sta. 10+13.74
N 45° 02' 07.7" W
-L1- POC Sta. 20+04.21 = -Y4- POT Sta. 10+00.00
Δ = 90°
-L1- PT Sta. 20+75.90
NAD 83/NA 2011
SMOKY MOUNTAIN PROPERTIES, LLC A NORTH CAROLINA LIMITED LIABILITY COMPANY DB 350 PG 106 DB 34 PG 528
MISSIONARY BAPTIST CHURCH DB 49 PG 314 DB 34 PG 528
PARCEL 16Z RELATED TO PUBLIC UTILITY EASEMENTS
PARCEL 16 RELATED TO CONSTRUCTION EASEMENTS
BEGIN 8"X18" HEADER CURB -Y4- STA 10+42.00
PLACE CL 'B' RIP RAP FROM EDGE OF PARKING LOT TO SPECIAL LATERAL 'V' DITCH
SPECIAL LATERAL 'V' DITCH SEE DETAIL 1 EST 8 TONS CL 'B' RIP RAP EST 16 SY GFD
TIE TO EXIST SWALE
-Y4- SR 1336 RAMSEUR STREET
PATRICIA B. MONTEITH AND KIRISTIE MILLSAPS MONTEITH DB 433 PG 492 DB 402 PG 48 DB 169 PG 319
N 30° 16' 20.0" E
-L1- PC Sta. 19+58.05
-L1- POT Sta. 18+86.11 = -Y5- POT Sta. 12+82.22 Δ = 95°
-L1- SR 1336 DEEP CREEK RD N 67° 47' 03.5" E
BRYSON INVESTMENT GROUP LLC DB 437 PG 234 MB 4 PG 3017
RICHMOND STREET
BEGIN C&G LT & RT -L1- STA 16+31.00 TIE TO EXIST
BEGIN CONSTRUCTION -L1- STA 16+31.00
WHISTLEPIG ALLEY, LLC, A NORTH CAROLINA LIMITED LIABILITY COMPANY DB 422 PG 99 DB 405 PG 439 DB 285 PG 767
RETAIN EXIST 30" HDPE & TIE TO PROPOSED DI
-L1- PT Sta. 18+52.78
REMOVE 40 LF OF 30" HDPE
ADJUST DI
RETAIN DI
RETAIN EXIST WALL
-L1- PC Sta. 16+54.93
TIE SLOPE TO EXIST WALL
END SIDEWALK -L1- STA 21+00.00
BEGIN C&G TRANS. -L1- STA 21+07.00
REMOVE FENCE
DO NOT DISTURB BUILDING AND AC UNITS END C&G TRANS. -L1- STA 21+17.00
END TIP PROJECT R-5843
END CONSTRUCTION -L1- STA 21+64.00
REMOVE EXIST ASPHALT
GREAT SMOKEY MOUNTAIN RAILROAD R/W 200 FEET WIDE -- D.B. 199-PG. 513 AS PER SOUTHERN RAILROAD VALUATION MAP V53-16 DATED MAY 5, 1948
PROPOSED RIGHT OF WAY
NBC HOLDING, LLC DB 436 PG 647 MB 4 PG 3017
CLEAN OUT EXIST DITCH
RETAIN EXIST DRIVEWAY
GRADE AREA TO DRAIN
REMOVE POSS JB & REPLACE WITH DI CONTRACTOR TO VERIFY LOCATION & INVERTS
-RR- POT Sta. 31+55.78
RETAIN 15" CMP
JB W/MH COVER
RETAIN & ADJUST CB
TIE CB TO EXIST 15" RCP
REMOVE SIDEWALK
-L1- PRC Sta. 17+39.16
N 54° 43' 40.0" W
-Y5- PT Sta. 12+66.64
REMOVE EXIST JB & REPLACE W/CB
RAILROAD TO RETAIN EXISTING RAILROAD UTILITY BOX
END C&G TRANS. -Y5- STA 11+94.09
BEGIN C&G TRANS. -Y5- STA 11+84.09
ENSURE POSITIVE DRAINAGE
-RR- N 66° 42' 58.0" E
REMOVE EXIST ASPHALT
END C&G TRANS. -Y5- STA 11+94.81
BEGIN C&G TRANS. -Y5- STA 11+84.81
PHYSICAL CROSSING SURFACE TO BE DESIGNED BY OTHERS
TIE TO PROPOSED RAILROAD CROSSING
GREAT SMOKY MOUNTAIN RAILROAD
-L1- SR 1336 DEPOT STREET N 64° 49' 50.6" E
FRY STREET
-Y5- PC Sta. 11+79.53
TIE TO EXIST FRY STREET
TIE TO EXIST DRIVEWAY
COLINS STREET
-Y5- SR 1336 RAMSEUR STREET N 23° 32' 03.6" W
CAROLYN MANESS SLAWTER, JAMES NEILL MANESS AND WILLIAM A. MANESS DB 342 PG 1034 DB 69 PG 275 DB 75 PG 28 DB 81 PG 73 DB 83 PG 95 DB 5 PG 334 DB 99 PG 243 DB 119 PG 330 DB 169 PG 100
BEGIN CONSTRUCTION -Y5- STA 10+66.00

NOTE:
1. RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
2. CONTRACTOR TO STOP MILL AND OVERLAY AT EXISTING PAVEMENT JOINT AT EXISTING RAILROAD CROSSING
3. DURING PAVING OPERATIONS AND SIDEWALK CONSTRUCTION CONTRACTOR TO ADJUST WATER VALVES AS NECESSARY
4. DURING CONSTRUCTION CONTRACTOR TO ADJUST WATER METERS AS NECESSARY
5. CONTRACTOR TO VERIFY LOCATION AND INVERTS OF DRAINAGE SYSTEM FROM STRUCTURE NUMBER 0622 TO STRUCTURE NUMBER 0609. CAMERA IF NECESSARY. WATER METERS AS NECESSARY

CONCRETE SIDEWALK

DETAIL 1
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Type of Liner = Type 'B' Rip-Rap

AT -Y4- STA. 10+35

SEE SHEET 7 FOR -L1- PROFILE
SEE SHEET 7 FOR -Y4- PROFILE
SEE SHEET 7 FOR -Y5- PROFILE

5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-5843	7

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042551 ENGINEER CHARLES I NUCKOLS II
3/16/2020

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 042551 ENGINEER BRYAN T VICKERY
3/16/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Kimley»Horn

BM#3
ELEV = 1744.53
N 641799 E 676203
-LI- STATION 16+86.97
226.55' LEFT
SET IN 12" PECAN

BEGIN MILLING FOR KEY-IN
TIE TO EXIST PAVEMENT
-LI- STA 16+31.00
ELEV = 1734.28'

END MILLING FOR KEY-IN
BEGIN GRADE
-LI- STA 16+61.00
ELEV = 1734.34'

PI = 18+00.00
EL = 1734.90'
VC = 60'
K = 150
DS = 60

(+)0.4029%

-LI- STA 18+86.11 =
-Y5- STA 12+82.22
ELEV = 1735.59'

(+)0.8014%

-LI- STA 20+04.21 =
-Y4- STA 10+00.00
ELEV = 1736.53'

END MILLING FOR KEY-IN
BEGIN MILL AND OVERLAY (LT)
-LI- STA 21+17.00
ELEV = 1737.45'

END GRADE
BEGIN MILLING FOR KEY-IN
-LI- STA 20+87.00
ELEV = 1737.20'

END MILL AND OVERLAY (LT)
TIE TO EXIST PAVEMENT
-LI- STA 21+64.00
ELEV = 1738.06'

1,744 1,742 1,740 1,738 1,736 1,734 1,732 1,730 1,728

-LI- SR 1336 DEEP CREEK RD/DEPOT STREET

SEE SHEET NO. 6 FOR -LI- PLAN

17 18 19 20 21

-Y4- STA 10+00.00 =
-LI- STA 20+04.21
ELEV = 1736.53'

BEGIN GRADE
-Y4- STA 10+10.00 =
-LI- STA 20+04.21 (10' LT)
ELEV = 1736.93'

(+)0.7571%

(+)4.0%

END GRADE
BEGIN MILLING & RESURFACING
-Y4- STA 10+90.00
ELEV = 1737.53'

END MILLING & RESURFACING
MILL NOTCH TO KEY-IN
TIE TO EXIST PAVEMENT
-Y4- STA 11+15.00

1,744 1,742 1,740 1,738 1,736 1,734 1,732 1,730 1,728

-Y4- SR 1336 RAMSEUR STREET

SEE SHEET NO. 6 FOR -Y4- PLAN

BEGIN MILL AND OVERLAY
-Y5- STA 10+66.00
ELEV = 1734.36'

END MILL AND OVERLAY
BEGIN GRADE
-Y5- STA 10+79.00
ELEV = 1734.64'

PI = 11+19.00
EL = 1735.50'
VC = 20'
K = 13
DS = 25

(+)2.1549%

(+)1.3000%

END GRADE
TIE TO RAILROAD
-Y5- STA 11+49.39
ELEV = 1735.89'

TIE TO RAILROAD
BEGIN GRADE
-Y5- STA 11+84.78
ELEV = 1735.89'

(-)1.1700%

PI = 12+31.00
EL = 1735.35'
VC = 60'
K = 31
DS = 25

(+)0.7818%

(-)0.50%

END GRADE
-Y5- STA 12+69.44 =
-LI- STA 18+85.24 (10' RT)
ELEV = 1735.65'

-Y5- STA 12+82.22 =
-LI- STA 18+86.11
ELEV = 1735.59'

1,744 1,742 1,740 1,738 1,736 1,734 1,732 1,730 1,728

-Y5- SR 1336 RAMSEUR STREET

SEE SHEET NO. 6 FOR -Y5- PLAN

10 11 11 12

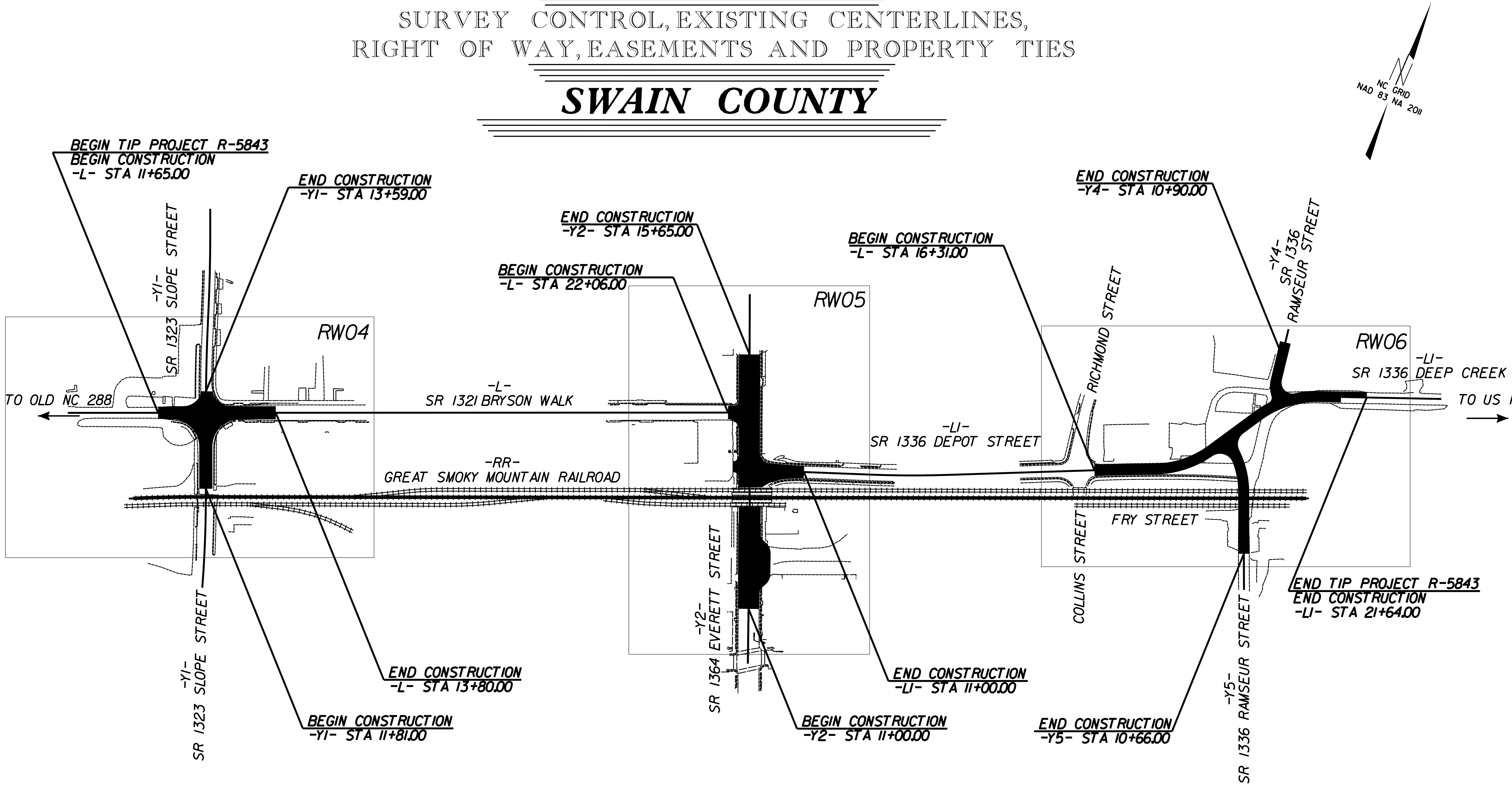
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5843	RW01	

TIP PROJECT: R-5843

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

SWAIN COUNTY



GRAPHIC SCALE

50 25 0 50 100

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "R5843-1"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 641,315.6552(ft) EASTING: 675,727.5648(ft)
ELEVATION: 1,732.55(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999799256
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5843-1" TO -L- STATION 11+65.00 IS
S 73°17'12" W 1,140.69(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared In the Office of:

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-4234 JEFFREY D. AKER

SIGNATURE: Jeffrey D. Aker Date: 5/13/2019

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$

09/08/99

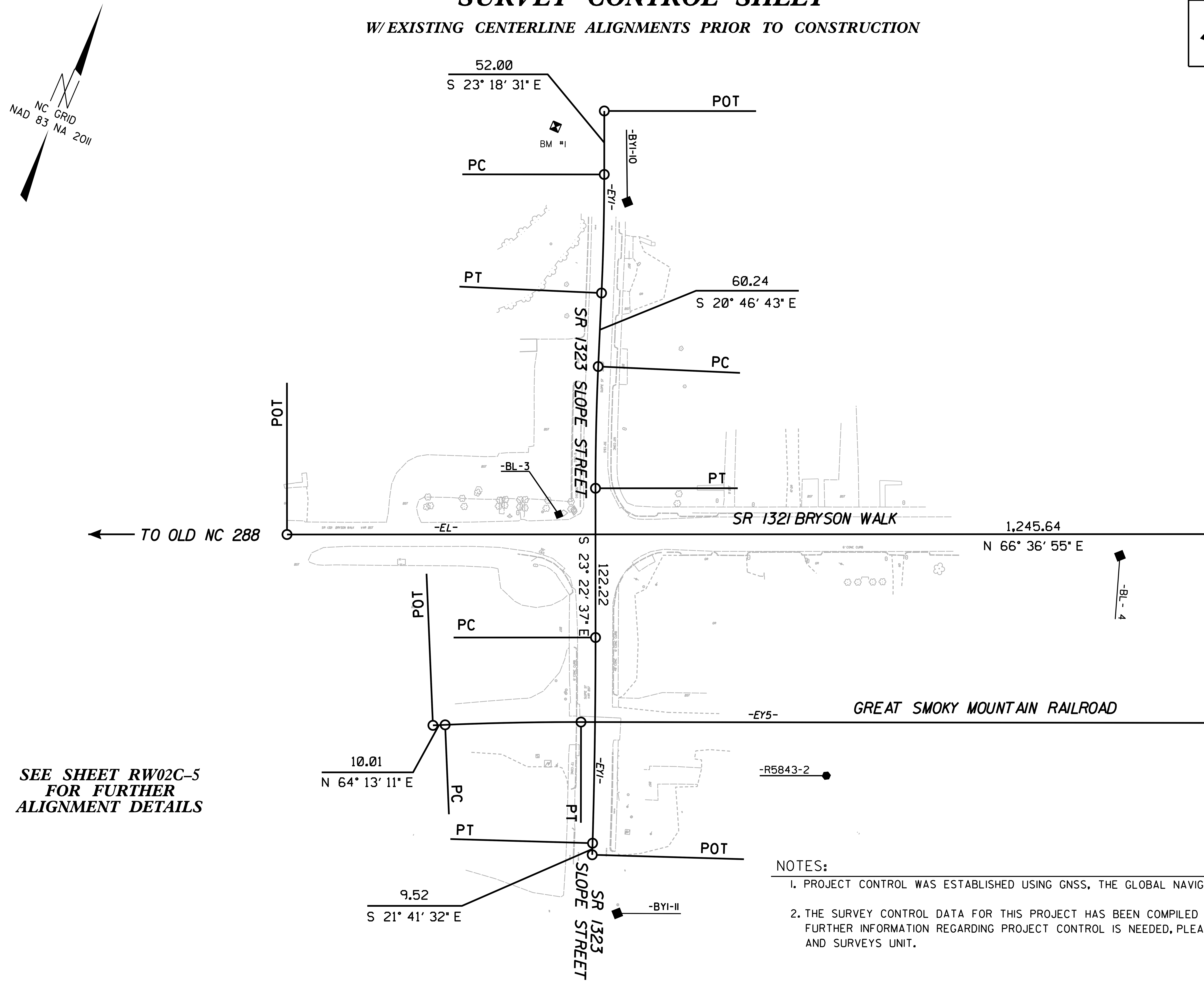
PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW02C-1

Location and Surveys

McKIM & CREED

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

14-MAY-2019 11:30

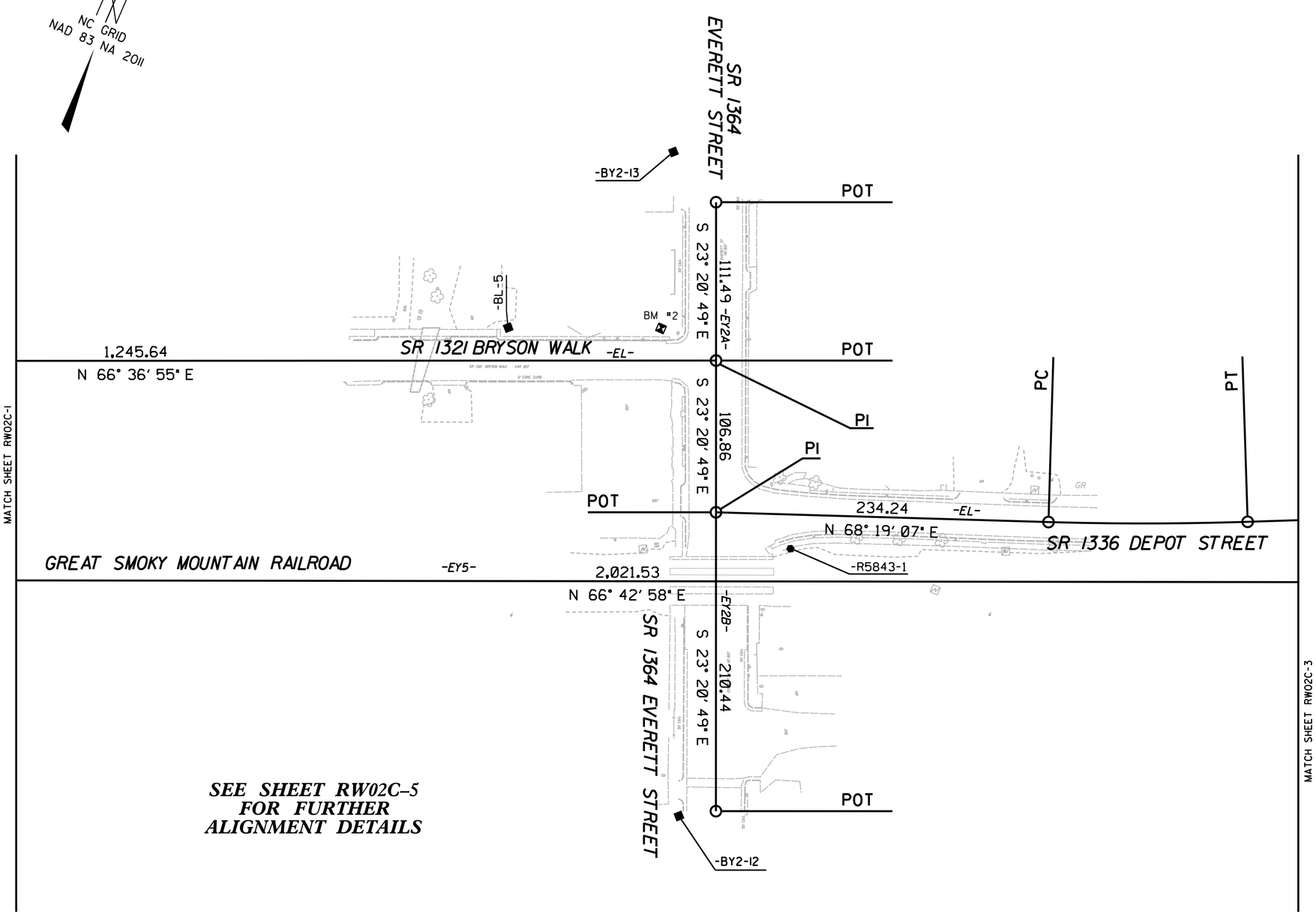
PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW02C-2
Location and Surveys	

McKIM&CREED

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

NC GRID
NAD 83 NA 2011



SEE SHEET RW02C-5 FOR FURTHER ALIGNMENT DETAILS

NOTES:

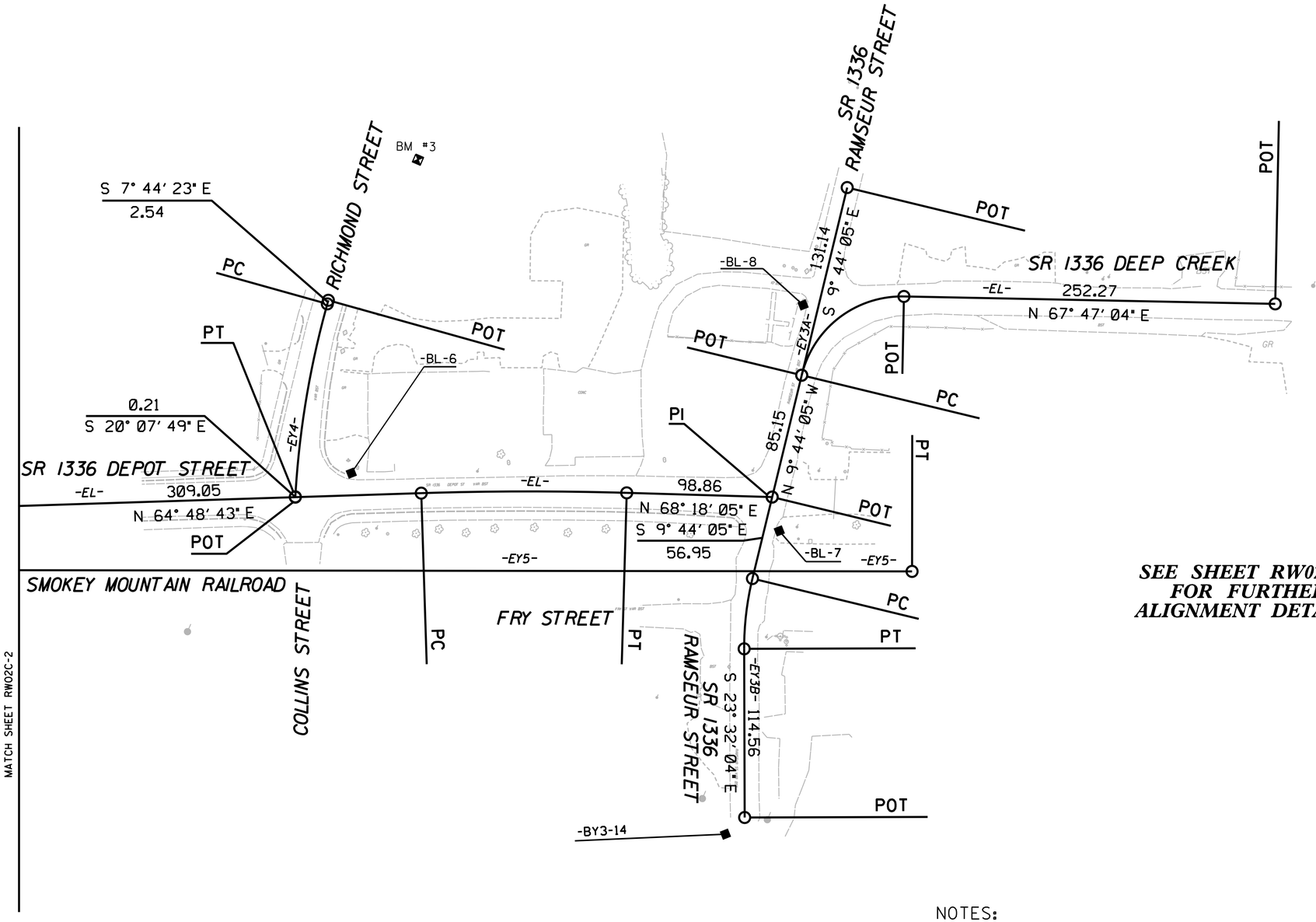
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW02C-3
Location and Surveys	

McKIM&CREED

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-5 FOR FURTHER ALIGNMENT DETAILS

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW02C-4

Location and Surveys

McKIM&CREED

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL

POINT	DESC.	NORTH	EAST	ELEVATION
2	(R5843-2)	640915.9105	674967.4137	1731.53
3	(BL-3)	641025.5050	674681.2920	1728.80
4	(BL-4)	641176.5690	675116.7280	1730.09
5	(BL-5)	641379.7530	675483.3260	1731.65
1	(R5843-1)	641315.6552	675727.5648	1732.55
6	(BL-6)	641585.8750	676246.2530	1734.13
7	(BL-7)	641665.1280	676528.7370	1736.13
8	(BL-8)	641812.4260	676482.7280	1735.96
9	(BL-9)	641953.2050	676838.9290	1739.43

BY1

POINT	DESC.	NORTH	EAST	ELEVATION
10	(BY1-10)	641282.7070	674631.4570	1731.92
A3	(BL-3)	641025.5050	674681.2920	1728.80
11	(BY1-11)	640744.4700	674854.9180	1730.93

BY3

POINT	DESC.	NORTH	EAST	ELEVATION
A7	(BL-7)	641665.1280	676528.7370	1736.13
14	(BY3-14)	641461.5380	676576.8000	1733.39

BY2

POINT	DESC.	NORTH	EAST	ELEVATION
13	(BY2-13)	641539.4770	675541.1290	1732.86
A1	(R5843-1)	641315.6552	675727.5648	1732.55
12	(BY2-12)	641111.7350	675730.1180	1729.03

BM1 ELEVATION = 1733.14
N 641316 E 674553
BENCH TIE SET IN 18" HICKORY

BM2 ELEVATION = 1736.14
N 641422 E 675582
USGS MON J37-1932

BM3 ELEVATION = 1744.53
N 641799 E 676203
BENCH TIE SET IN 12" PECAN

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW02C-5

Location and Surveys

McKIM&CREED

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	640922.122	674483.615							
LINE			N 66°36'54.7" E	1245.64					
POT	641416.523	675626.939							
LINE			S 23°20'48.9" E	106.86					
POT	641318.411	675669.288							
LINE			N 68°19'07.2" E	234.24					
PC	641404.949	675886.954							
CURVE			N 66°33'54.9" E	140.26	03°30'24.6"(LT)	02°29'59.7"	140.28	70.16	2291.91
PT	641460.729	676015.641							
LINE			N 64°48'42.6" E	309.05					
PC	641592.258	676295.305							
CURVE			N 66°33'24.0" E	139.57	03°29'22.8"(RT)	02°29'59.7"	139.59	69.82	2291.91
PT	641647.785	676423.354							
LINE			N 68°18'05.4" E	98.86					
POT	641684.337	676515.212							
LINE			N 09°44'04.6" W	85.15					
PC	641768.260	676500.815							
CURVE			N 29°01'29.5" E	87.65	77°31'08.1"(RT)	81°51'04.0"	94.71	56.20	70.00
PT	641844.899	676543.340							
LINE			N 67°47'03.5" E	252.27					
POT	641940.283	676776.887							

EY1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	641343.613	674584.626							
LINE			S 23°18'30.8" E	52.00					
PC	641295.855	674605.202							
CURVE			S 22°02'36.8" E	97.14	02°31'48.0"(RT)	02°36'15.7"	97.15	48.58	2200.00
PT	641205.819	674641.659							
LINE			S 20°46'42.8" E	60.24					
PC	641149.500	674663.028							
CURVE			S 22°04'39.8" E	99.76	02°35'54.0"(LT)	02°36'15.7"	99.77	49.89	2200.00
PT	641057.055	674700.524							
LINE			S 23°22'36.8" E	122.22					
PC	640944.865	674749.019							
CURVE			S 22°32'04.3" E	168.47	01°41'05.2"(RT)	01°00'00.0"	168.48	84.24	5729.58
PT	640789.257	674813.584							
LINE			S 21°41'31.7" E	9.52					
POT	640780.410	674817.103							

EY2A

POINT	N	E	BEARING	DIST
POT	641518.886	675582.755		
LINE			S 23°20'48.9" E	111.49
POT	641416.523	675626.939		

EY2B

POINT	N	E	BEARING	DIST
POT	641318.411	675669.288		
LINE			S 23°20'48.9" E	210.44
POT	641125.201	675752.685		

EY3A

POINT	N	E	BEARING	DIST
POT	641897.516	676478.640		
LINE			S 09°44'04.6" E	131.14
POT	641768.260	676500.815		

EY3B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	641684.337	676515.212							
LINE			S 09°44'04.6" E	56.95					
PC	641628.211	676524.841							
CURVE			S 16°38'04.1" E	48.05	13°47'59.0"(LT)	28°38'52.4"	48.17	24.20	200.00
PT	641582.168	676538.597							
LINE			S 23°32'03.6" E	114.56					
POT	641477.138	676584.340							

EY4

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	641687.477	676185.437							
LINE			S 07°44'22.7" E	2.54					
PC	641684.958	676185.779							
CURVE			S 13°56'05.9" E	132.85	12°23'26.4"(LT)	09°18'32.4"	133.10	66.81	615.49
PT	641556.022	676217.771							
LINE			S 20°07'49.1" E	0.21					
POT	641555.827	676217.843							

EY5

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	640826.014	674655.303							
LINE			N 64°13'10.8" E	10.01					
PC	640830.366	674664.314							
CURVE			N 65°28'04.4" E	111.30	02°29'47.3"(RT)	02°14'34.4"	111.31	55.66	2554.54
PT	640876.577	674765.563							
LINE			N 66°42'58.0" E	2021.53					
POT	641675.662	676622.456							

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

14-MAY-2019 11:40

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW02D-1
Location and Surveys	

PROPOSED ALIGNMENT CONTROL SHEET

L

TYPE	STATION	NORTH	EAST
POT	10·00.00	640922.1222	674483.6151
POT	22·45.15	641416.3292	675626.4912

L1

TYPE	STATION	NORTH	EAST
POT	10·00.00	641319.9951	675667.7288
PC	12·21.88	641400.0264	675874.6732
PT	13·62.43	641455.2836	676003.8712
PC	16·54.93	641579.6810	676268.5974
PRC	17·39.16	641614.4292	676345.3241
PT	18·52.78	641688.6844	676428.8300
PC	19·58.05	641779.6018	676481.8987
PT	20·75.90	641855.5002	676569.2969
POT	23·00.14	641940.2827	676776.8875

RR

TYPE	STATION	NORTH	EAST
PC	10·00.00	640822.4407	674648.0519
PT	11·29.40	640876.5769	674765.5633
POT	31·55.78	641677.5793	676626.9116

Y1

TYPE	STATION	NORTH	EAST
PC	10·00.00	640726.2546	674835.8457
PT	11·68.39	640883.2775	674775.1510
PC	13·09.47	641012.7764	674719.1738
PRC	15·02.72	641191.9464	674646.8105
PT	16·46.79	641325.5288	674592.8815
POT	16·92.72	641367.6991	674574.6674

Y2

TYPE	STATION	NORTH	EAST
POT	10·00.00	640994.1070	675805.8207
POT	12·86.38	641258.4023	675695.5500
POT	13·53.96	641319.9951	675667.7288
POT	16·75.03	641615.1531	675541.3808

Y4

TYPE	STATION	NORTH	EAST
POT	10·00.00	641816.0626	676509.9960
PC	10·13.74	641825.7703	676500.2763
PT	10·44.54	641852.6932	676486.3296
POT	11·10.00	641917.2077	676475.2619

Y5

TYPE	STATION	NORTH	EAST
POT	10·00.00	641477.1379	676584.3401
PC	11·79.53	641641.7320	676512.6553
PT	12·66.64	641708.4710	676458.3579
POT	12·82.22	641717.4714	676445.6330

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

6/2/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW03E-1

McKIM&CREED

PROJECT SURVEYOR

SEAL
L-4234
JEFFREY D. AKER

RIGHT OF WAY AND PERMANENT EASEMENT CONTROL SHEET

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11·65.00	19.23	640969.9630	674642.6986
L	11·65.00	-16.00	641002.2980	674628.7134
L	11·65.00	-21.00	641006.8886	674626.7303
L	11·65.00	19.00	640970.1712	674642.6009
L	12·99.00	-24.00	641062.8253	674748.5295
L	13·17.99	23.00	641027.2232	674784.6143
L	13·55.00	-22.00	641083.2163	674800.7234
L	13·55.00	-24.00	641085.0520	674799.9296
L	13·55.00	16.00	641048.3376	674815.8058
L	13·55.00	23.00	641041.9126	674818.5842
L	22·06.00	16.00	641386.1034	675596.9046

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L1	16·94.23	-20.00	641614.3727	676296.0068
L1	19·74.09	-20.00	641804.6497	676474.2796
L1	20·33.00	-20.00	641850.9300	676520.1617
L1	21·70.39	-20.00	641909.7403	676649.2074
L1	20·75.90	-20.00	641874.0156	676561.7351
L1	18·52.78	-20.00	641698.7666	676411.5572
L1	17·39.16	-20.00	641632.7620	676337.3298
L1	20·24.30	20.00	641813.8362	676537.4465
L1	19·91.92	20.00	641793.9463	676516.7001
L1	21·68.96	-11.00	641900.8695	676651.2906
L1	19·58.05	-20.00	641789.6840	676464.6259

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	13·50.00	-24.76	641040.4705	674680.4574
Y1	13·62.00	19.11	641068.4839	674716.2875
Y1	12·73.00	-44.55	640961.6259	674692.7502
Y1	12·90.00	50.45	641014.9243	674773.2069

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	13·34.08	-45.40	641283.1858	675634.5361
Y2	12·37.00	32.12	641225.2009	675744.2062
Y2	12·16.38	50.00	641213.0555	675768.6473
Y2	11·48.00	50.00	641149.9481	675794.9773
Y2	11·31.00	32.35	641127.4626	675785.2341
Y2	13·87.00	-31.00	641338.1685	675626.2285
Y2	13·87.00	-45.00	641332.6591	675613.3581
Y2	14·35.00	-31.00	641382.2955	675607.3391

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10·44.54	20.00	641856.0749	676506.0417

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

$$$$$$SYSTIME$$$$$
$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

I, Jeffrey D. Aker, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 26th day of April, 2019.

DocuSigned by:
Jeffrey D. Aker
Jeffrey D. Aker L-4234
13883A59F70E41D...

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	12·03.00	-36.00	641035.7368	674655.6521
L	12·03.00	-26.76	641027.2578	674659.3186
L	13·08.00	-24.00	641066.3975	674756.7902
L	13·09.00	33.00	641014.4801	674780.3286
L	13·17.99	33.00	641018.0437	674788.5791
L	13·24.00	-35.00	641082.8444	674767.1100
L	13·32.00	-35.00	641086.0197	674774.4529
L	13·32.00	-24.00	641075.9232	674778.8189

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L1	17·52.00	-20.00	641637.6946	676347.6228
L1	17·52.00	-27.00	641643.8953	676344.3745
L1	17·67.00	-27.00	641650.2754	676355.4091
L1	17·67.00	-20.00	641644.3666	676359.1623
L1	18·20.00	-20.00	641675.0752	676394.6651
L1	18·20.00	-27.00	641679.6405	676389.3586
L1	18·30.00	-27.00	641686.2347	676394.7203
L1	18·30.00	-20.00	641681.9711	676400.2721
L1	18·60.00	-20.00	641705.0028	676415.1973
L1	18·60.00	-27.00	641708.5316	676409.1518
L1	18·70.00	-27.00	641717.1680	676414.1929
L1	18·70.00	-20.00	641713.6392	676420.2384
L1	19·68.00	-20.00	641799.0718	676470.4592

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	13·58.00	-24.85	641047.8599	674677.2634

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10·29.00	-37.00	641820.9139	676458.4718
Y4	10·32.00	-49.00	641820.7104	676445.2447
Y4	10·42.00	-43.50	641840.6735	676444.3789
Y4	10·42.00	-35.00	641842.5348	676452.6726
Y4	11·24.24	-26.93	641926.6859	676446.3088

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW04

Location and Surveys

McKIM&CREED

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4234 LAND SURVEYOR JEFFREY D. AKER

I, Jeffrey D. Aker, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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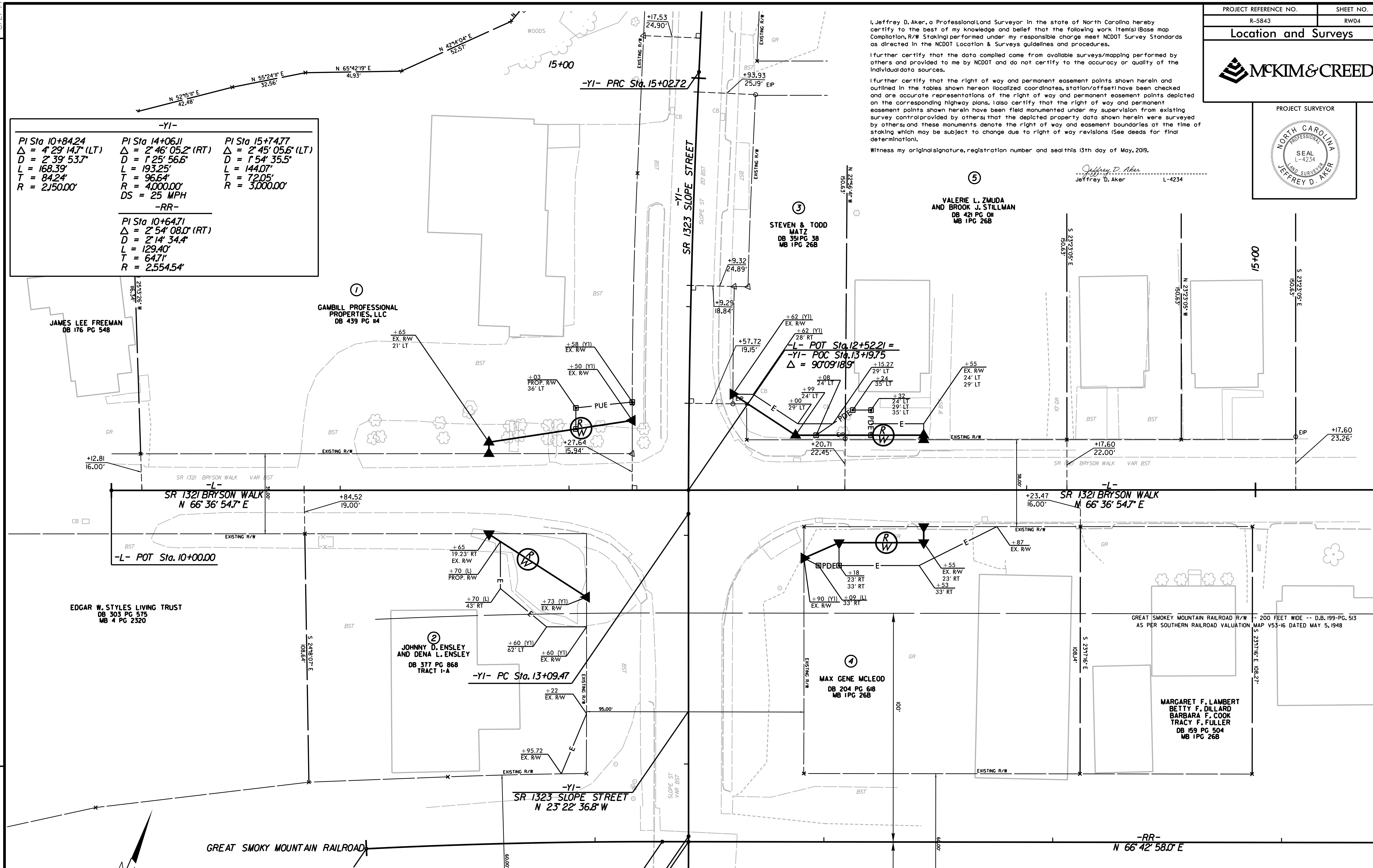
Witness my original signature, registration number and seal this 13th day of May, 2019.

Jeffrey D. Aker
Jeffrey D. Aker L-4234



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

13-MAY-2019 13:06
R:\0482\0977\R5843 Revised Right of Way\80-Drawings\r5843_ls_rw04.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW05

Location and Surveys

McKIM & CREED

I, Jeffrey D. Aker, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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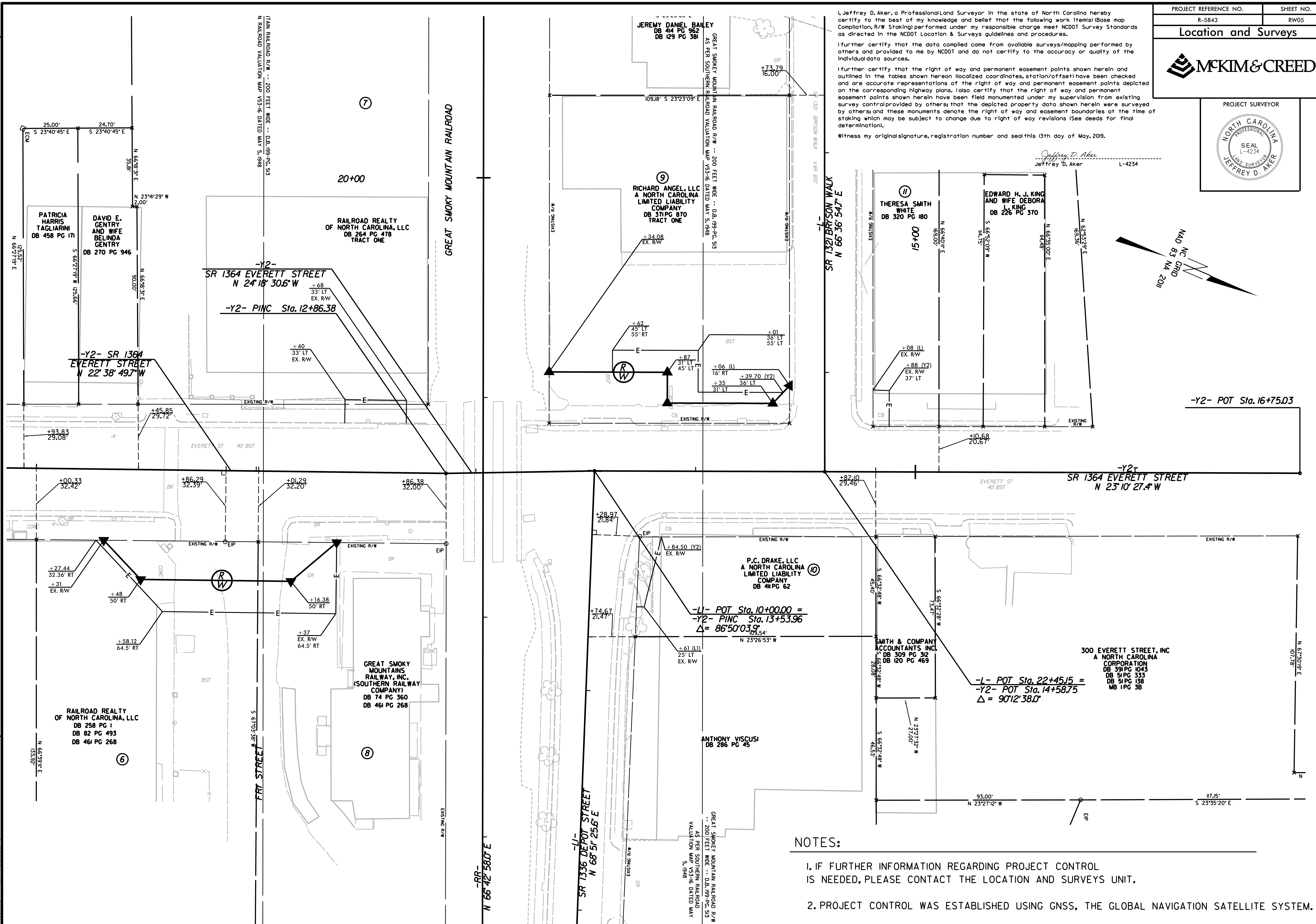
Jeffrey D. Aker
Jeffrey D. Aker L-4234

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4234 LAND SURVEYOR JEFFREY D. AKER



NOTES:

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PROJECT REFERENCE NO.	SHEET NO.
R-5843	RW06

Location and Surveys

McKIM&CREED

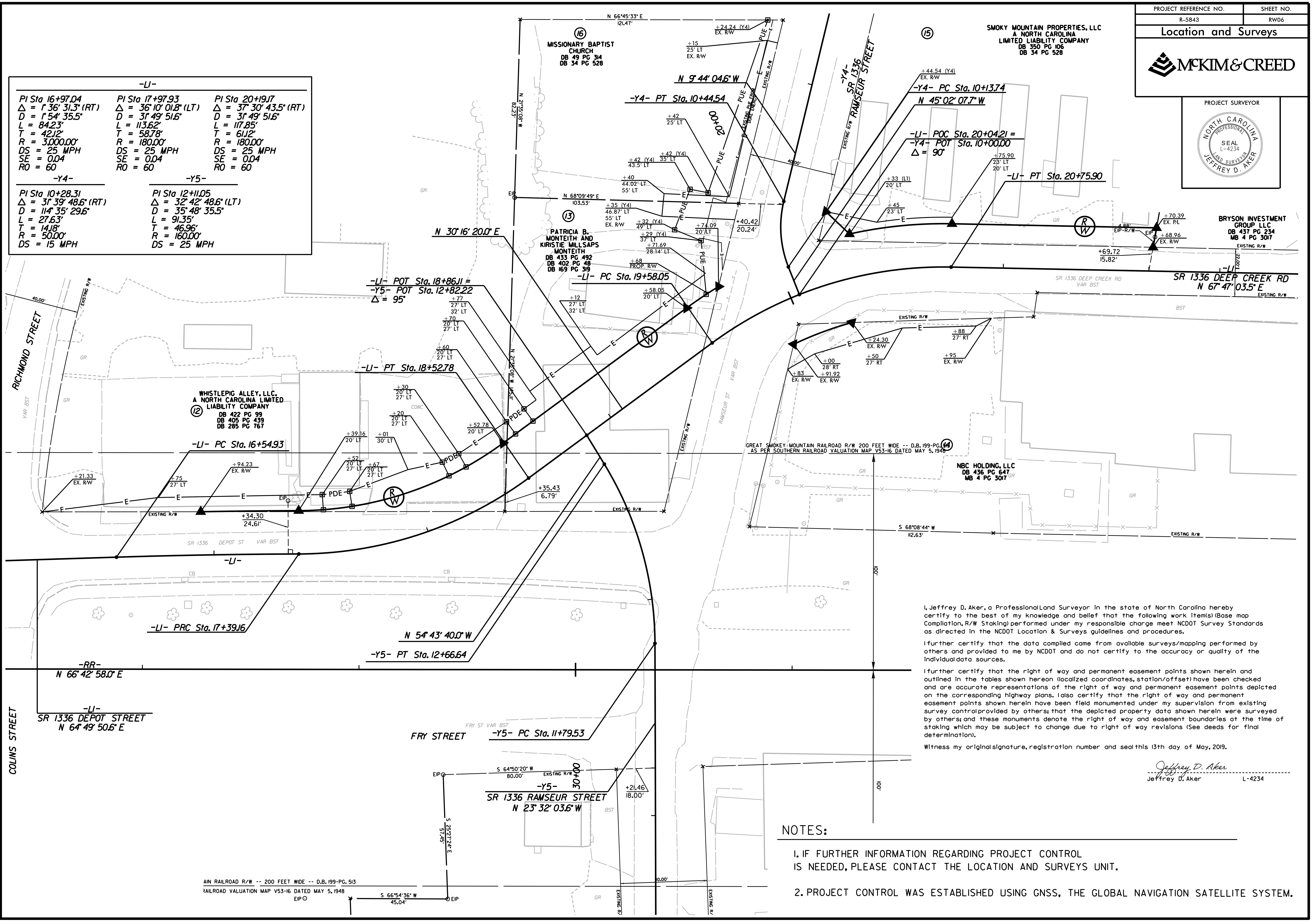
PROJECT SURVEYOR

SEAL L-4234 — NORTH CAROLINA PROFESSIONAL LAND SURVEYOR — JEFFREY D. AKER

-L1-

PI Sta 16+97.04	PI Sta 17+97.93	PI Sta 20+19.17
Δ = 1° 36' 31.3" (RT)	Δ = 36° 10' 01.8" (LT)	Δ = 37° 30' 43.5" (RT)
D = 1° 54' 35.5"	D = 31° 49' 51.6"	D = 31° 49' 51.6"
L = 84.23'	L = 113.62'	L = 117.85'
T = 42.12'	T = 58.78'	T = 61.12'
R = 3,000.00'	R = 180.00'	R = 180.00'
DS = 25 MPH	DS = 25 MPH	DS = 25 MPH
SE = 0.04	SE = 0.04	SE = 0.04
RO = 60	RO = 60	RO = 60

-Y4-	-Y5-
PI Sta 10+28.31	PI Sta 12+11.05
Δ = 31° 39' 48.6" (RT)	Δ = 32° 42' 48.6" (LT)
D = 114° 35' 29.6"	D = 35° 48' 35.5"
L = 27.63'	L = 91.35'
T = 14.18'	T = 46.96'
R = 50.00'	R = 160.00'
DS = 15 MPH	DS = 25 MPH



I, Jeffrey D. Aker, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Jeffrey D. Aker L-4234

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

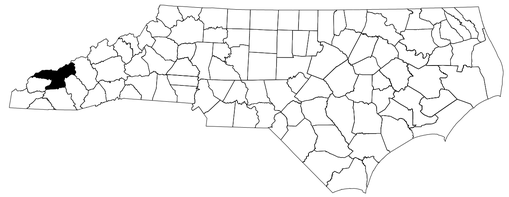
REVISIONS

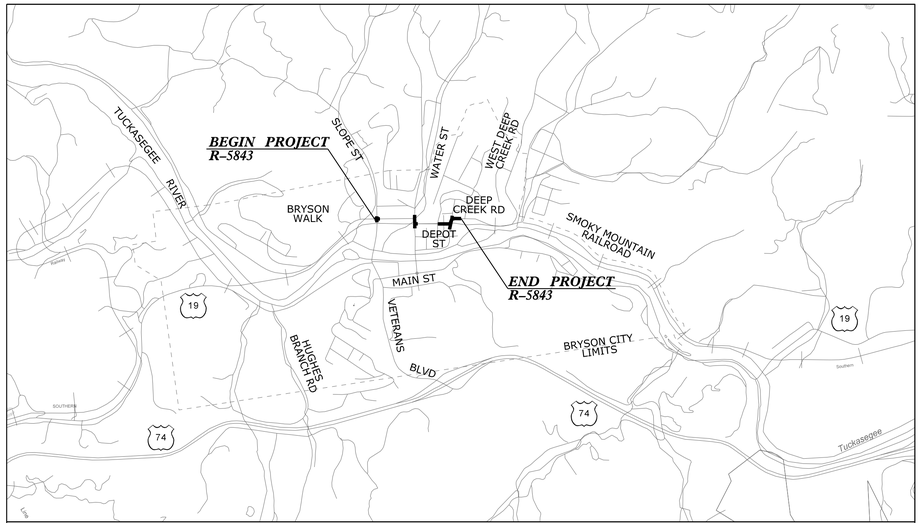
13-MAY-2019 13:13 R:\0482\0917\R-5843 Revised Right of Way\80-Drawings\r5843_ls_rw06.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

SWAIN COUNTY





VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A TO TMP-1C	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, TEMPORARY PAVEMENT MARKING, AND GENERAL NOTES
TMP-2	N/A
TMP-3	PHASING
TMP-4	PHASE I DETAILS
TMP-5	PHASE II DETAILS
TMP-6 TO TMP-8	PHASE III DETAILS

SHEET NO.
TMP-1

TIP PROJECT: R-5843

CONTRACT: DN00709

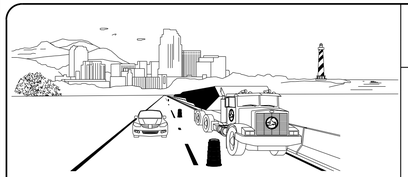
07/19/19 DATE SUBMITTED
SUBMITTAL:
- [ ] STAGING CONCEPT
- [ ] MIDPOINT
- [ ] PRE-FINAL
- [X] FINAL

DO NOT USE FOR CONSTRUCTION

Kimley»Horn

CHUCK NUCKOLS, P.E. *TRAFFIC CONTROL PROJECT ENGINEER*

CALEB LOWMAN, P.E. *TRAFFIC CONTROL PROJECT DESIGN ENGINEER*



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

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

JOSEPH E. HUMMER *STATE TRAFFIC MANAGEMENT ENGINEER*
DON PARKER, P.E. *TRAFFIC CONTROL PROJECT ENGINEER*
KENNETH THORNEWELL, P.E. *TRAFFIC CONTROL PROJECT DESIGN ENGINEER*

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

APPROVED: _____
DATE: _____

NORTH CAROLINA PROFESSIONAL SEAL 036387 ENGINEER CHARLES A NUCKOLS
Charles A Nuckols III
7/19/2019

K:\RAL_Roadway\Dll\036387 - Div 14 IR-5843 Bryson Int\Traffic\TrafficControl\TCP\Plan Sheets\R-5843_tcp_tshdgn
7/17/2019

PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-1A

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE 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 - TYPE III
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION - REFLECTION END TREATMENT
1165.01	TRUCK MOUNTED ATTENUATOR - DELINEATION
1170.01	POSITIVE PROTECTION - PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

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

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMP TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

PAVEMENT MARKING LINES

PA - PAINT (4" WHITE, 2X) EDGELINE
PB - PAINT (4" YELLOW, 2X) EDGELINE
PE - PAINT (4" WHTIE, 2X) SOLID LANE LINE
PI - PAINT (4" YELLOW, 2X) DOUBLE CENTER LINE
PP - PAINT (8" YELLOW, 2X) DIAGONAL
PQ - PAINT (8" WHTIE, 2X) CROSSWALK LINE
P2 - PAINT (24" WHITE, 2X) STOPBAR
P3 - PAINT (24" WHITE, 2X) CROSSWALK LINE

PAVEMENT MARKING SYMBOLS

QF - PAINT 2X (COMBINATION LEFT & RIGHT TURN ARROW)
QG - PAINT 2X (COMBINATION STRAIGHT, RIGHT, & LEFT TURN ARROW)

Kimley»Horn

APPROVED:__________ DATE:________

7/19/2019

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

ROADWAY STANDARD DRAWINGS & LEGEND

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7/16/2019

MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS IN BRYSON CITY WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS TEMPORARY LANE CLOSURES. LOCAL ACCESS TO RESIDENTS AND BUSINESSES WILL BE MAINTAINED AT ALL POSSIBLE TIMES DURING CONSTRUCTION.

GENERAL NOTES

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

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- SR 1321 BRYSON WALK	MONDAY THRU FRIDAY
-L1- SR 1336 DEPOT STREET / DEEP CREEK ROAD	6:00 AM TO 9:00 AM
-Y1- SR 1323 SLOPE STREET	AND 2:30 PM TO 6:00 PM
-Y2- SR 1364 EVERETT STREET	
-Y4- SR 1364 RAMSEUR STREET	
-Y5- SR 1364 RAMSEUR STREET	

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

ROAD NAME

-L- SR 1321 BRYSON WALK
-L1- SR 1336 DEPOT STREET
-Y1- SR 1323 SLOPE STREET
-Y2- SR 1364 EVERETT STREET
-Y4- SR 1364 RAMSEUR STREET
-Y5- SR 1364 RAMSEUR STREET

TIME RESTRICTIONS (CONT.)

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 6:00 A.M. DECEMBER 31st TO 7:00 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 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. EVERETT STREET FOR ALL GREAT SMOKY MOUNTAIN RAILROAD ANNUAL EVENTS AND ALL OTHER SPECIAL EVENTS OCCURRING IN DOWNTOWN BRYSON CITY OR AT THE GREAT SMOKY MOUNTAIN RAILROAD DEPOT BETWEEN 3 HOURS BEFORE THE START AND 3 HOURS AFTER THE END OF THE EVENT.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- SR 1321 BRYSON WALK	ANYTIME
-L1- SR 1336 DEPOT STREET	
-Y1- SR 1323 SLOPE STREET	
-Y2- SR 1364 EVERETT STREET	
-Y4- SR 1364 RAMSEUR STREET	
-Y5- SR 1364 RAMSEUR STREET	

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 WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON:

ROAD NAME

-L- SR 1321 BRYSON WALK
-L1- SR 1336 DEPOT STREET
-Y1- SR 1323 SLOPE STREET
-Y2- SR 1364 EVERETT STREET
-Y4- SR 1364 RAMSEUR STREET
-Y5- SR 1364 RAMSEUR STREET

K) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

Kimley»Horn

APPROVED:________________ DATE:________

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER CHARLES A. NUCKOLS
Charles A. Nuckols II
11/29/2021

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

TRANSPORTATION OPERATIONS PLAN

PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-1C

GENERAL NOTES (CONT.)

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

M) 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) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

N) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

O) 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.

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

Q) INSTALL BLACK ON ORANGE ''DIP'' SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

R) PROVIDE PERMANENT SIGNING.

TRAFFIC CONTROL DEVICES

S) 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.

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

U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY

W) 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.

X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

MISCELLANEOUS

Z) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE ''PAVEMENT ENDS'' SIGNS (W8-3) 500 ' AND 1000' RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

AA) 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.

BB) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

LOCAL NOTES

CC) THE CONTRACTOR SHALL COORDINATE WITH THE BRYSON CITY SPECIAL EVENTS OFFICE FOR EVENTS OCCURING ON OR NEAR EVERETT STREET. WORK ZONE ACCOMMODATIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

SPECIAL ANNUAL EVENTS INCLUDE BUT ARE NOT LIMITED TO:

ARTS & CRAFTS STUDIO TOUR
JULY 4 FREEDOM FEST
FALL IN THE SMOKIES
SMOKY MOUNTAIN FLY FISHING FESTIVAL
CHRISTMAS IN THE SMOKIES

THE CONTRACTOR SHALL MINIMIZE IMPACTS TO BUSINESS ENTRANCES AND DRIVEWAYS. MAINTAIN ACCESS AT ALL POSSIBLE TIMES AND COORDINATE ANY ACCESS RESTRICTION TO OCCUR WHILE BUSINESS IS CLOSED. IN THE EVENT A BUSINESS ACCESS IS TEMPORARILY RELOCATED, PROVIDE SIGNING INDICATING THAT THE BUSINESS IS OPEN AND DIRECTING PEDESTRIANS ACCORDINGLY.

DD) THE CONTRACTOR SHALL COORDINATE WITH THE GREAT SMOKY MOUNTAIN RAILROADS LOCAL RAILMASTER OR TRACK SUPERVISOR FOR THE SCHEDULE OF SLOW MOVING OR STOPPED EQUIPMENT OVER AT-GRADE CROSSINGS ALONG THE PROJECT CORRIDOR.

Kimley»Horn

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL 18197 ENGINEER CHARLES A NUCKOLS II
DocuSigned by: Charles A Nuckols II
7/19/2019

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

TRANSPORTATION OPERATIONS PLAN

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7/17/2019

PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-3

PHASING

NOTES:
-WORK IN ONE INTERSECTION AT A TIME, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
-THE AVAILABILITY DATE OF TREE CLEARING OPERATIONS AND PHASE 1 STEP 1 IS FEBRUARY 7, 2022.
THE AVAILABILITY DATE FOR ALL OTHER WORK REQUIRED OF THE CONTRACT IS JUNE 1, 2022.
-COMPLETE ALL WORK REQUIRED OF PHASE 1 STEP 1, AS DESCRIBED BELOW AND IN ICT#1 OF THE CONTRACT PROPOSAL, BY FEBRUARY 28, 2022.

PHASE I

STEP 1: TEMPORARY CLOSE -Y5- SR 1336 RAMSEUR STREET IN ACCORDANCE WITH RSD 1101.03USING LOCAL DETOUR ALONG FRY STREET AND COLLINS STREET TO DIRECT TRAFFIC BACK TO -L1- SR 1336 (DEPOT STREET). MAINTAIN TRAFFIC ON LOCAL DETOUR OF FRY STREET AND COLLINS STREET WHILE WORK IS COMPLETED TO INSTALL RAIL CROSSING BY RAIL CONTRACTOR.

STEP 2: PRIOR TO BEGINNING CONSTRUCTION, INSTALL ADVANCE WARNING SIGNS ALONG -L- SR 1321 (BRYSON WALK), -L1- SR 1336 (DEPOT STREET), -Y1- (SLOPE STREET), -Y2- (EVERETT STREET), -Y4- SR 1364 (RAMSEUR STREET), -Y5- SR 1364 (RAMSEUR STREET) IN ACCORDANCE WITH RSD 1101.01

STEP 3: WHILE MAINTAINING TRAFFIC USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, CONSTRUCT THE FOLLOWING AWAY FROM TRAFFIC AS SHOWN ON SHEET TMP-4;

- NEW LOCATION -L1- SR 1336 DEPOT STREET - NEW LOCATION -Y5- SR 1336 RAMSEUR STREET

STEP 4: WHILE MAINTAINING TRAFFIC USING RSD 1101.02 FOR FLAGGER OPERATIONS, WEDGE AS NEEDED FOR POSITIVE DRAINAGE AND TO ENSURE SMOOTH TRANSITIONS. TIE IN NEW LOCATION AREAS AND WIDENING TO EXISITNG.

NOTE: MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES. CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES DURING CONSTRUCTION.

PHASE II

WHILE MAINTAINING TRAFFIC USING RSD 1101.02 FOR TEMPORARY LANE CLOSURES, AND RSD 1101.03 FOR TEMPORARY ROAD CLOSURES PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-5.

STEP 1: WHILE MAINTAINING TRAFFIC USING RSD 1101.02 FOR FLAGGER OPERATIONS, INSTALL TEMPORARY PAVEMENT MARKINGS AND SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED -L1- SR 1336 DEPOT STREET AND -Y5- SR 1336 RAMSEUR STREET

STEP 2: AWAY FROM TRAFFIC REMOVE EXISTING PAVEMENT ALONG -L1- SR 1336 DEPOT STREET AND -Y5- SR 1336 RAMSEUR STREET. CONSTRUCT REMAINING PORTIONS OF -L1- SR 1336 DEPOT STREET AND -Y5- SR 1336 RAMSEUR STREET WITH EXCEPTION TO THE RAILROAD CROSSING.

NOTE: MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES. CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES DURING CONSTRUCTION.

PHASE III

WHILE MAINTAINING TRAFFIC USING RSD 1101.02 FOR TEMPORARY LANE CLOSURES, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-6 THRU TMP-8.

STEP 1: INSTALL CURB AND GUTTER, SHOULDER, SIDEWALK, DRAINAGE AND DRIVEWAYS:

- ***-L- SR 1321 BRYSON WALK***
- ***-L1- SR 1336 DEPOT STREET***
- ***-Y1- SR 1323 SLOPE STREET***
- ***-Y2- SR 1364 EVERETT STREET***
- ***-Y4- SR 1336 RAMSEUR STREET***

STEP 2: COMPLETE MEDIAN CONSTRUCTION ALONG -Y2- SR 1364 EVERETT STREET.

STEP 4: INSTALL FINAL SIGNALS AT THE INTERSECTION OF -L1- SR 1336 DEPOT STREET AND -Y2- SR 1364 EVERETT STREET, DO NOT ACTIVATE.

STEP 5: WHILE MAINTAINING TRAFFIC USING RSD 1101.02 FOR FLAGGER OPERATIONS, PLACE FINAL LIFT OF ASPHALT AND FINAL PAVEMENT MARKINGS. ACTIVATE SIGNAL. REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN ALL LANES TO TRAFFIC.

NOTE: MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES. CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES DURING CONSTRUCTION.

Kimley»Horn

APPROVED:_____ DATE:_____

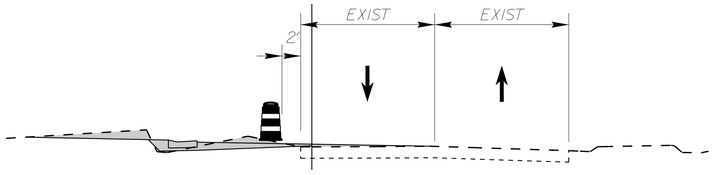
NORTH CAROLINA PROFESSIONAL SEAL 18154 ENGINEER CHARLES A NUCKOLS
Digitally signed by Charles A Nuckols III
11/29/2021

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

PHASING

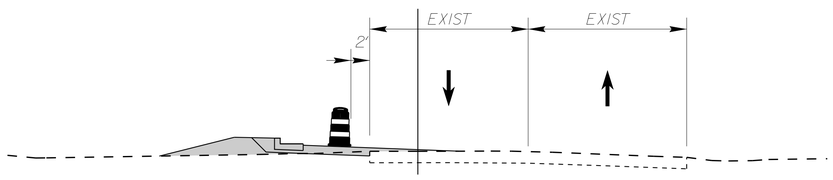
PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-4

℄ -L1- SR 1336 DEPOT STREET



PHASE 1
SECTION A–A
STA. 18+00.00

℄ -L1- SR 1336 DEPOT STREET



PHASE 1
SECTION B–B
STA. 19+75.00

-Y4-
SR 1336
RAMSEUR STREET

20

-L1-
SR 1336 DEEP CREEK RD

RICHMOND STREET

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE(S)

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE(S)

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE
R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE

10' 10'

0610 0611 0613 0615 0620 0623 0624 0625 0627 0609

COVER CB WITH TEMPORARY STEEL PLATE

RR AREA WORK TO BE COMPLETED UNDER ROAD CLOSURE. (REFER TO PHASE 1, STEP 1 IN PHASING NOTES)

-L1-
SR 1336 DEPOT STREET

GREAT SMOKY MOUNTAIN RAILROAD

COLINS STREET

FRY STREET

R11-2
48" x 30"
ROAD CLOSED
DETOUR
M4-10L
48" x 18"
TYPE III BARRICADE

30

-Y5-
SR 1336 RAMSEUR STREET

WORK AREA
PAVEMENT REMOVAL
WEDGING

Kimley»Horn

APPROVED:_____ DATE:_____

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER CHARLES A. NUCKOLS II
DocuSigned by: Charles A. Nuckols II
11/16/2021

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

PHASE 1
TRAFFIC CONTROL DETAILS

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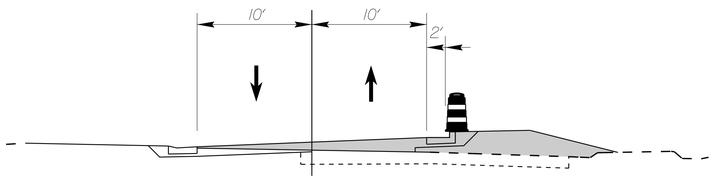
11/16/2021

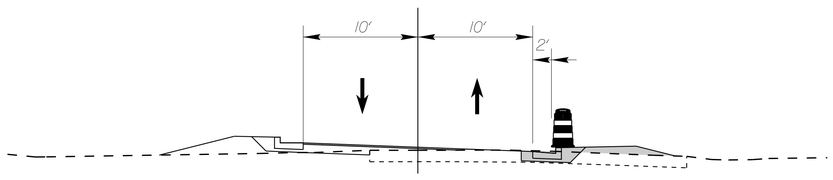
PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-5

℄ -L1- SR 1336 DEPOT STREET



PHASE 2
SECTION C–C
STA. 18+00.00

℄ -L1- SR 1336 DEPOT STREET



PHASE 2
SECTION D–D
STA. 19+75.00

R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE(S)

R1-1
36" X 36"
-Y4- Sta. 10+18

W1-2L
36" X 36"
-L- STA. 20+75.50

W23-2
36" X 36"
-L- STA. 21+55.50

NEW TRAFFIC PATTERN AHEAD

W23-2
36" X 36"
-L- STA. 16+39.50

W1-2L
36" X 36"
-L- STA. 17+20.00

R11-2
48" X 30"
ROAD CLOSED
DETOUR
M4-10L
48" x 18"
TYPE III BARRICADE

R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

-Y4-
SR 1336 RAMSEUR STREET

-L1-
SR 1336 DEEP CREEK RD

-L1-
SR 1336 DEPOT STREET

-Y5-
SR 1336 RAMSEUR STREET

RICHMOND STREET

COLINS STREET

FRY STREET

GREAT SMOKY MOUNTAIN RAILROAD

0603 0604 0605 0606 0608 0612 0614 0616 0617 0618 0619 0621 0627 0628 0629 0630

PA PI P2 QF

WORK AREA
PAVEMENT REMOVAL
WEDGING

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11/16/2021

Kimley»Horn

APPROVED: _____ DATE: _____

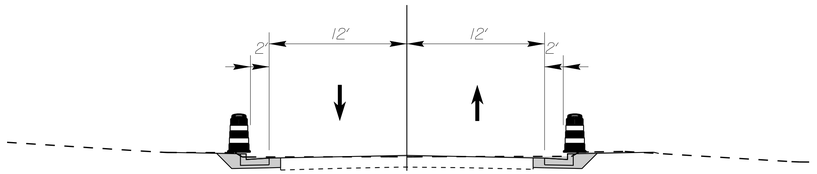
NORTH CAROLINA PROFESSIONAL SEAL 038387 ENGINEER CHARLES A NUCKOLS
DocuSigned by: Charles A Nuckols III
11/16/2021

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

PHASE 2
TRAFFIC CONTROL DETAILS

PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-6

℄ -Y1- SR 1323 SLOPE STREET



PHASE 3
SECTION E-E
STA. 12+00.00

NOTE: DO NOT WIDEN SIMULTANEOUSLY ON BOTH SIDES OF THE ROAD

15

15

-Y1-
SR 1323 SLOPE STREET

STOP
R1-1
36" X 36"
-Y1- Sta. 13+48

R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

-L-
SR 1321 BRYSON WALK

-L-
SR 1321 BRYSON WALK

STOP
R1-1
36" X 36"
-Y1- Sta. 12+85

R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

-Y1-
SR 1323
SLOPE STREET

GREAT SMOKY MOUNTAIN RAILROAD

WORK AREA
PAVEMENT REMOVAL
WEDGING

APPROVED: _____ DATE: _____

NORTH CAROLINA PROFESSIONAL SEAL 19151 ENGINEER CHARLES A NUCKOLS II
DocuSigned by: Charles A Nuckols II
7/19/2019

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

PHASE 3
TRAFFIC CONTROL DETAILS

Kimley»Horn

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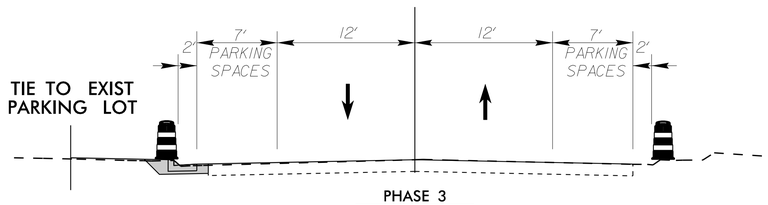
7/17/2019

PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-7

℄ -Y2- SR 1364 EVERETT STREET



PHASE 3
SECTION F-F
STA. 14+00.00

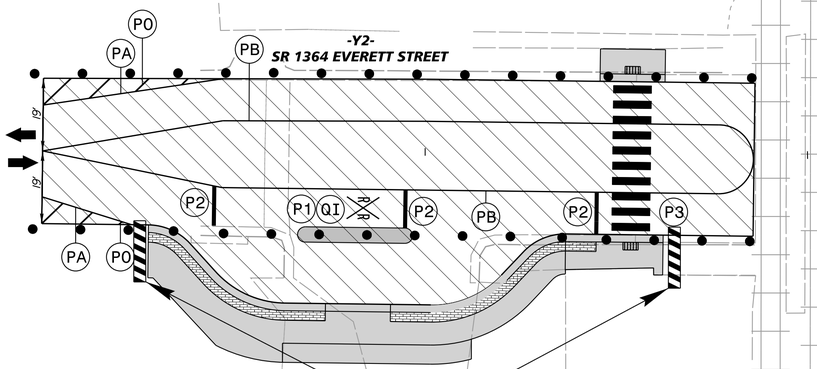
20

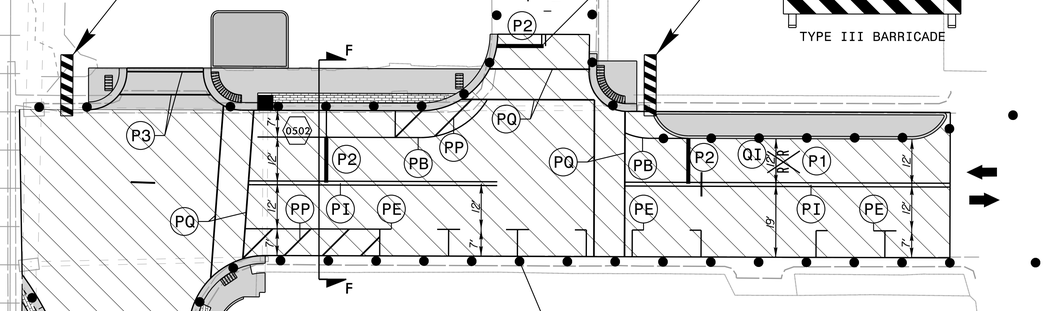
GREAT SMOKY MOUNTAIN RAILROAD

-L- SR 1321 BRYSON WALK

15

-Y2- SR 1364 EVERETT STREET





R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

R9-9
24" X 12"
SIDEWALK CLOSED
TYPE III BARRICADE

-Y2- SR 1364 EVERETT STREET

FRY STREET

-L1- SR 1336 DEPOT STREET

WORK AREA
PAVEMENT REMOVAL
WEDGING

K:\RAL_Roadway\DII\036387 - Div I4 IR-5843 Bryson Int\Traffic\Traffic Control\TCP-Plan Sheets\R-5843_tcp_psh_7.dgn

7/16/2019

Kimley»Horn

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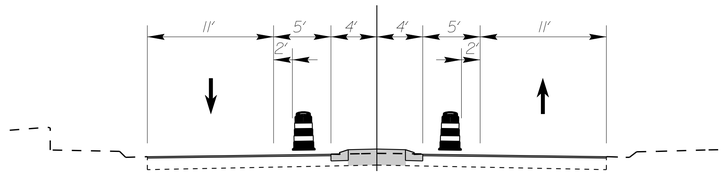
NORTH CAROLINA PROFESSIONAL SEAL 036387 ENGINEER CHARLES A. NUCKOLS
DocuSigned by: Charles A. Nuckols II
7/19/2019

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

PHASE 3
TRAFFIC CONTROL DETAILS

PROJ. REFERENCE NO.	SHEET NO.
R-5843	TMP-8

℄ -Y2- SR 1364 EVERETT STREET



PHASE 3 STEP 2
SECTION G-G
STA. 12+50.00

20

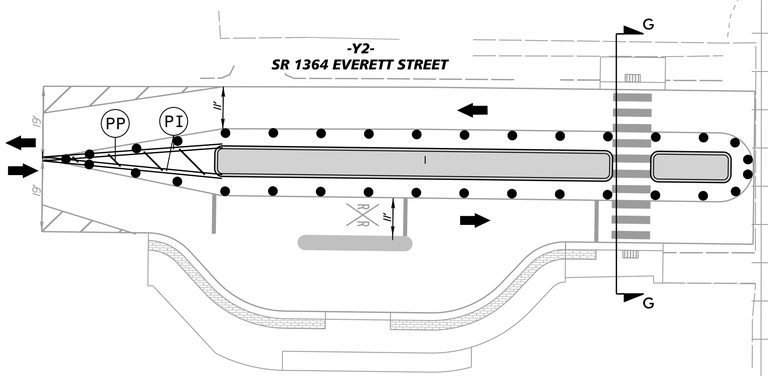
GREAT SMOKY MOUNTAIN RAILROAD

-L-
SR 1321 BRYSON WALK

15

-Y2-
SR 1364 EVERETT STREET

G



FRY STREET

-L1-
SR 1336 DEPOT STREET

WORK AREA
PAVEMENT REMOVAL
WEDGING

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NORTH CAROLINA PROFESSIONAL SEAL 032615 ENGINEER CHARLES A. NUCKOLS III
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7/19/2019

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

PHASE 3 STEP 2 TRAFFIC CONTROL DETAILS

TIP PROJECT: R-5843

CONTRACT: DN00709

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11/18/2021

PROJECT REFERENCE NO.	SHEET NO.
R-5843	PMP-1

APPROVED:

DATE:

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — CHARLES A. NUCKOLS II — 11/19/2021

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SWAIN COUNTY

LOCATION: INTERSECTIONS: SLOPE STREET (SR 1323) /BRYSON WALK (SR 1321)
EVERETT STREET (SR 1364) /DEPOT STREET (SR 1336)
DEPOT STREET (SR 1336) /RAMSEUR STREET (SR 1336)
DEEP CREEK ROAD (SR 1336) /RAMSEUR STREET (SR 1336)

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN COVER SHEET
PMP-2	N/A
PMP-3 THRU PMP-5	PAVEMENT MARKING DETAILS

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 - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	THERMOPLASTIC SYMBOLS (90 MILS)
UF	COMBO LEFT/RIGHT ARROW
UG	COMBO LEFT/RIGHT/STRAIGHT ARROW
	THERMOPLASTIC CHAR. (90 MILS)
UI	ALPHANUMERIC CHAR.
	THERMOPLASTIC (90 MILS)
DC	DECORATIVE CROSSWALK (RED)
	THERMOPLASTIC (4", 50 MILS)
TA	WHITE EDGELINE
TB	YELLOW EDGELINE
TI	YELLOW DOUBLE CENTER LINE
T9	2 FT. - 6 FT./SP YELLOW MINISKIP
	THERMOPLASTIC (8", 90 MILS)
TO	WHITE DIAGONAL
TP	YELLOW DIAGONAL
TQ	WHITE CROSSWALK LINE
	THERMOPLASTIC (16", 90 MILS)
T1	WHITE LINE RR
	THERMOPLASTIC (24", 90 MILS)
T2	WHITE STOPBAR
T3	WHITE CROSSWALK LINE

GENERAL NOTES

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

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS USING 60 MIL ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
-L-	THERMOPLASTIC	N/A
-L1-	THERMOPLASTIC	N/A
-Y1-	THERMOPLASTIC	N/A
-Y2-	THERMOPLASTIC	N/A
-Y4-	THERMOPLASTIC	N/A
-Y5-	THERMOPLASTIC	N/A

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

F) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

G) USE 50 MIL THERMOPLASTIC WHEN INDICATED ON PAVEMENT MARKING SCHEDULE

H) SEE SPECIAL PROVISIONS FOR STAMPED DECORATIVE CROSSWALK. LOCATIONS CALLED OUT ON THE PLANS

PLAN PREPARED BY: Kimley-Horn and Associates
P.O. BOX 33068
RALEIGH, NC 27636
PE NO. F-0102

Charles A. Nuckols P.E. — PROJECT ENGINEER
Caleb D. Lowman P.E. — PROJECT DESIGN ENGINEER

Kimley»Horn

Kimley»Horn ©2019
421 FAYETTEVILLE ST, SUITE 600
RALEIGH, N.C. 27601

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
R-5843	PMP-3

APPROVED: _____

DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 049893 ENGINEER CHARLES A. NUCKOLS III
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11/19/2021

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15

15

-L- STA. 12+10 +/-

BEGIN R-5843 PAVEMENT MARKINGS
TIE TO EXISTING
-L- STA. 11+65 +/-

-Y1- STA. 13+59 +/-

-Y1- STA. 13+48 +/-

-L- STA. 12+80 +/-
CURB RAMP (TYPE 2A)

-L- STA. 12+86 +/-

-L- STA. 19+80 +/-
TIE TO EXISTING

-L-
SR 1321 BRYSON WALK

-L-
SR 1321 BRYSON WALK

-L- STA. 12+21 +/-
CURB RAMP (TYPE 2A)

-Y1- STA. 12+86 +/-

-L- STA. 12+80 +/-
CURB RAMP (TYPE 2A)

-Y1-
SR 1323 SLOPE STREET

GREAT SMOKY MOUNTAIN RAILROAD

-Y1- STA. 11+81 +/-

12'

SYMBOL AND PAVEMENT MARKING LEGEND

THERMOPLASTIC:
- (UF) COMBO LEFT/RIGHT
- (UG) COMBO LEFT/RIGHT/STRAIGHT

THERMOPLASTIC:
- (T1) WHITE LINE RR (16")
- (T2) WHITE STOPBAR (24")
- (T3) WHITE CROSSWALK LINE (24")
- (T4) 2 FT. - 6 FT./SP YELLOW WINISKIP (4")

THERMOPLASTIC:
- (TA) WHITE EDGELINE (4")
- (TB) YELLOW EDGELINE (4")
- (TI) YELLOW DOUBLE CENTER (4")
- (TQ) WHITE DIAGONAL (8")
- (TP) YELLOW DIAGONAL (8")
- (TQ) WHITE CROSSWALK LINE (8")

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RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
R-5843	PMP-4

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11/19/2021

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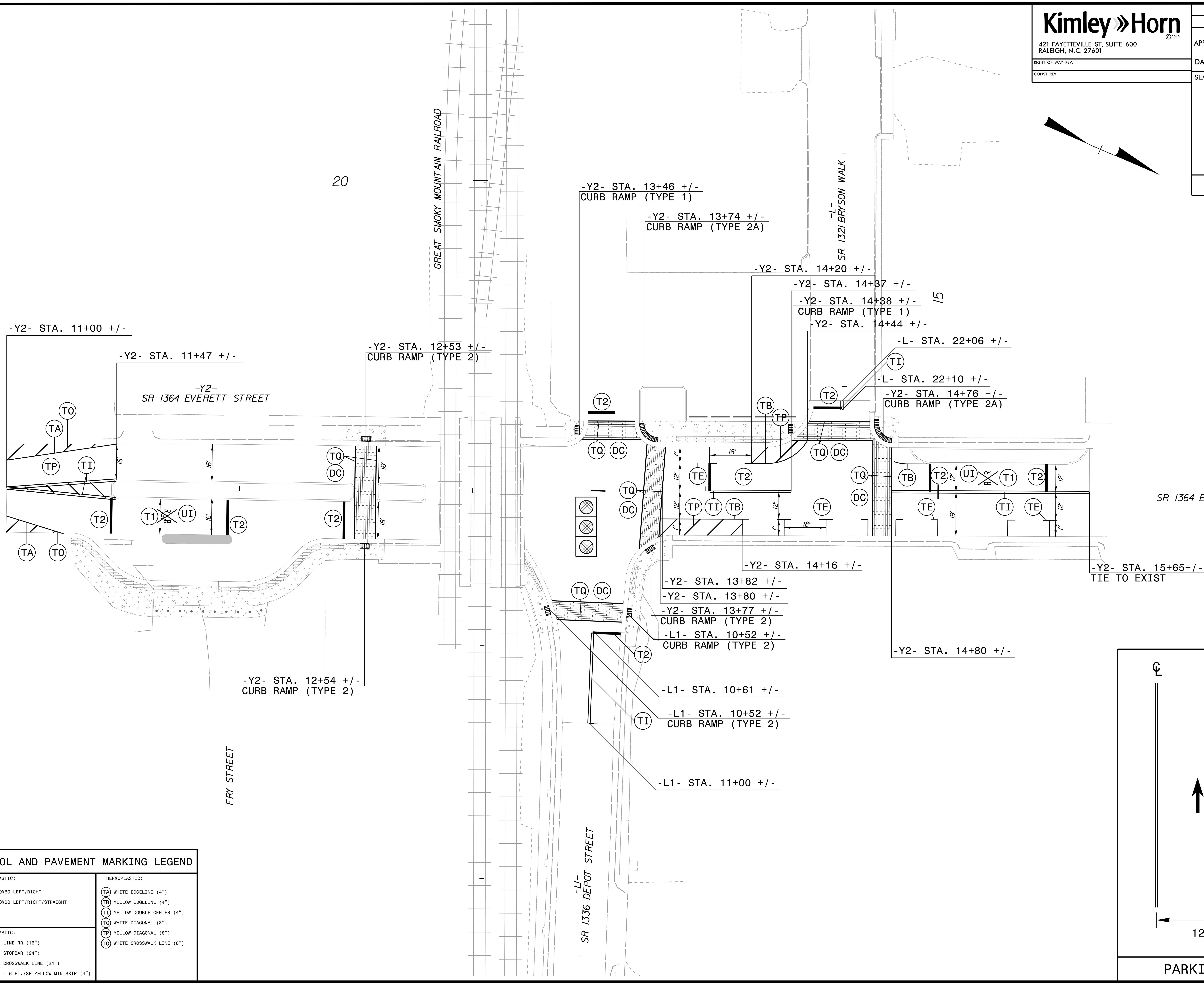
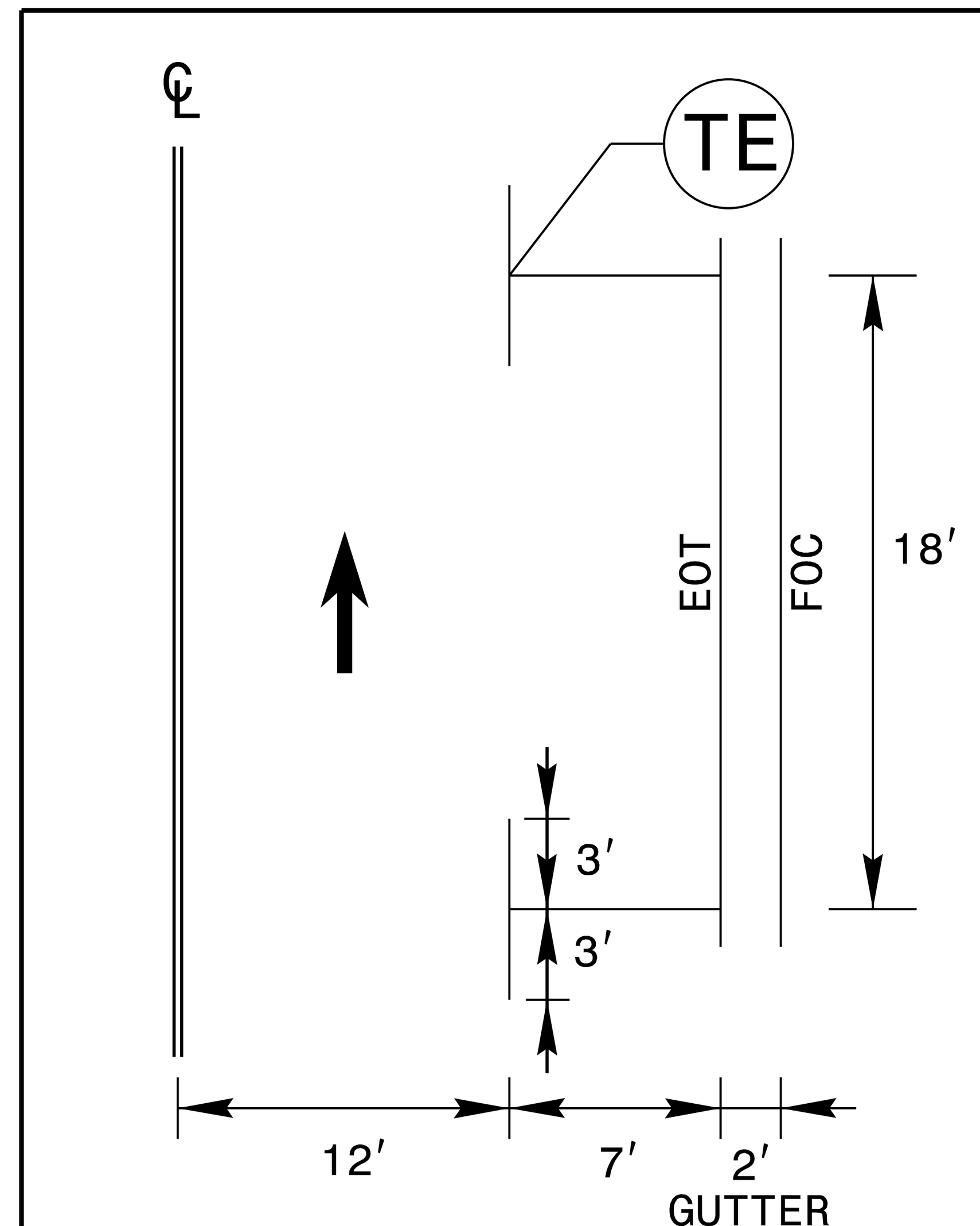


SYMBOL AND PAVEMENT MARKING LEGEND

THERMOPLASTIC:
- (UF) COMBO LEFT/RIGHT
- (UG) COMBO LEFT/RIGHT/STRAIGHT

THERMOPLASTIC:
- (T1) WHITE LINE RR (16")
- (T2) WHITE STOPBAR (24")
- (T3) WHITE CROSSWALK LINE (24")
- (T4) 2 FT. - 6 FT./SP YELLOW MINISKIP (4")

THERMOPLASTIC:
- (TA) WHITE EDGELINE (4")
- (TB) YELLOW EDGELINE (4")
- (TI) YELLOW DOUBLE CENTER (4")
- (TO) WHITE DIAGONAL (8")
- (TP) YELLOW DIAGONAL (8")
- (TQ) WHITE CROSSWALK LINE (8")



PARKING SPACE DETAIL

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RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
R-5843	PMP-5

APPROVED: ______
DATE: ______

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 18154 ENGINEER CHARLES A. NUCKOLS, II
DocuSigned by: Charles A. Nuckols II 1D848932F9D84A1...
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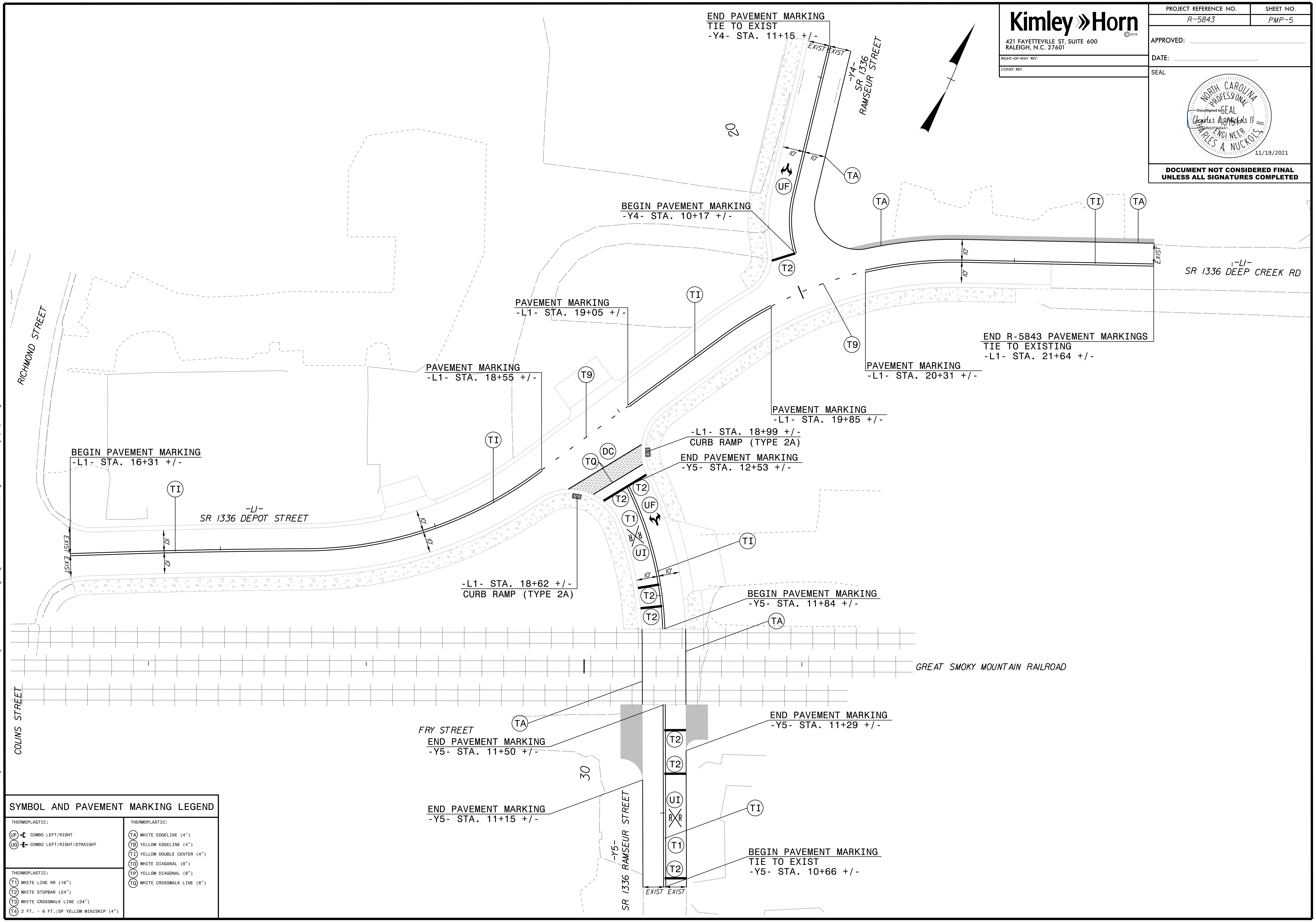

END PAVEMENT MARKING
TIE TO EXIST
-Y4- STA. 11+15 +/-
EXIST EXIST
-Y4-
SR 1336
RAMSEUR STREET
20
10'
10'
UF
TA
BEGIN PAVEMENT MARKING
-Y4- STA. 10+17 +/-
T2
TI
-LI-
SR 1336 DEEP CREEK RD
EXIST
PAVEMENT MARKING
-L1- STA. 19+05 +/-
T9
END R-5843 PAVEMENT MARKINGS
TIE TO EXISTING
-L1- STA. 21+64 +/-
PAVEMENT MARKING
-L1- STA. 20+31 +/-
RICHMOND STREET
PAVEMENT MARKING
-L1- STA. 18+55 +/-
PAVEMENT MARKING
-L1- STA. 19+85 +/-
-L1- STA. 18+99 +/-
CURB RAMP (TYPE 2A)
END PAVEMENT MARKING
-Y5- STA. 12+53 +/-
BEGIN PAVEMENT MARKING
-L1- STA. 16+31 +/-
DC
TQ
T1
UI
-LI-
SR 1336 DEPOT STREET
EXIST EXIST
-L1- STA. 18+62 +/-
CURB RAMP (TYPE 2A)
BEGIN PAVEMENT MARKING
-Y5- STA. 11+84 +/-
GREAT SMOKY MOUNTAIN RAILROAD
COLINS STREET
FRY STREET
END PAVEMENT MARKING
-Y5- STA. 11+50 +/-
END PAVEMENT MARKING
-Y5- STA. 11+29 +/-
30
END PAVEMENT MARKING
-Y5- STA. 11+15 +/-
-Y5-
SR 1336 RAMSEUR STREET
BEGIN PAVEMENT MARKING
TIE TO EXIST
-Y5- STA. 10+66 +/-
EXIST EXIST

SYMBOL AND PAVEMENT MARKING LEGEND

THERMOPLASTIC:

- (UF) COMBO LEFT/RIGHT
- (UG) COMBO LEFT/RIGHT/STRAIGHT

THERMOPLASTIC:

- (T1) WHITE LINE RR (16")
- (T2) WHITE STOPBAR (24")
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