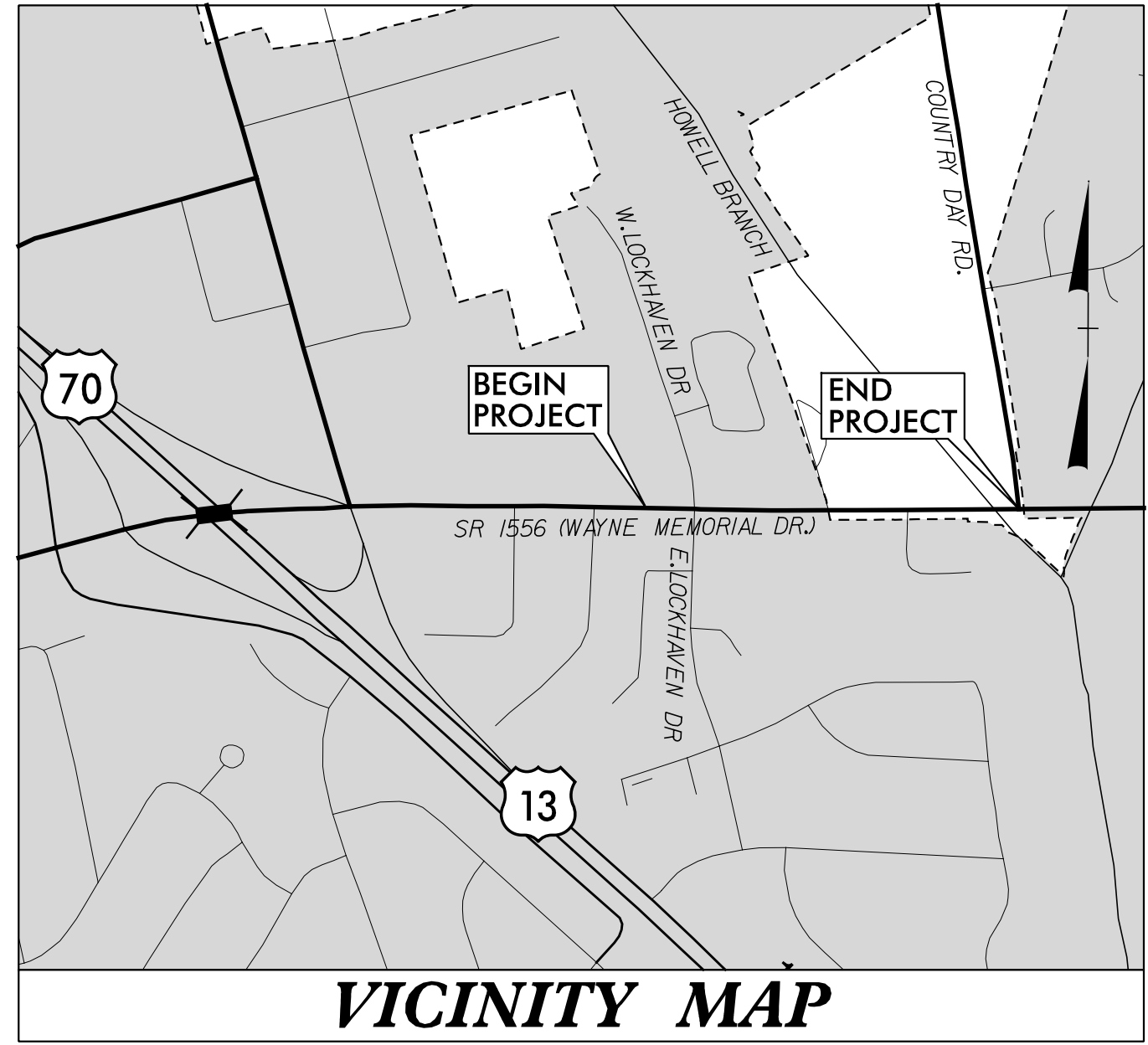


09_08/19

TIP PROJECT: U-5994

CONTRACT: DD00299

See Sheet 1A For Index of Sheets



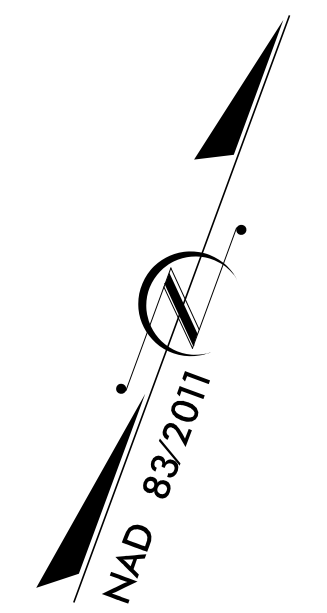
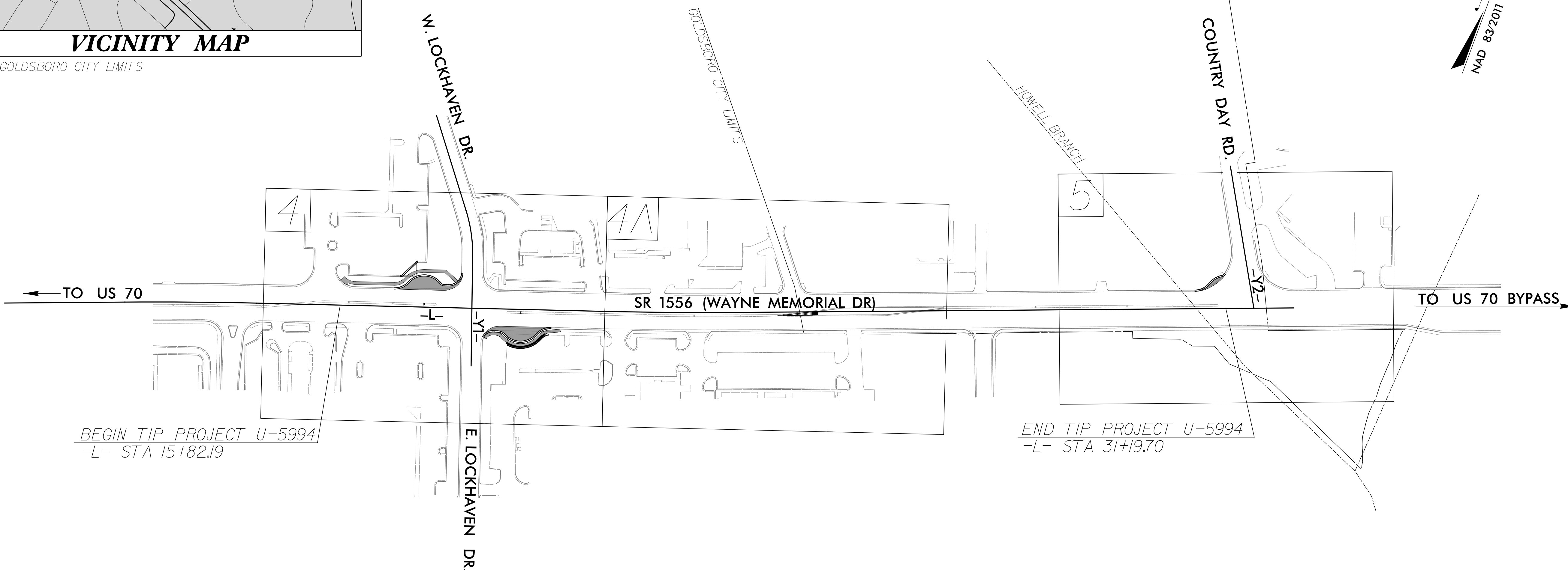
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

WAYNE COUNTY

**LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT
 E. LOCKHAVEN DRIVE AND COUNTRY DAY ROAD**

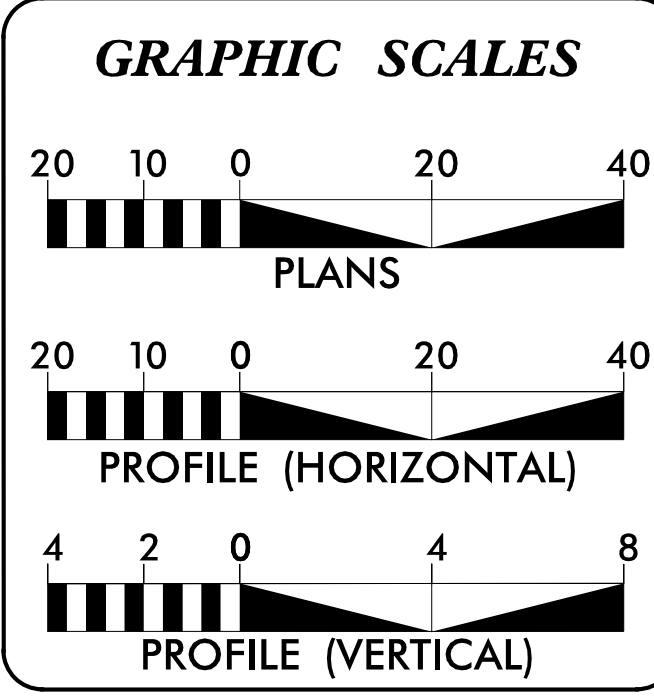
**TYPE OF WORK: GRADING, RETAINING WALL, DRAINAGE, UTILITIES, SIGNING,
 PAVING, PAVEMENT MARKING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5994	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47114.1.1		PE	
47114.2.1		ROW	
47114.3.1		CONST.	



THIS IS NOT A CONTROL OF ACCESS PROJECT.

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2018 =	27,000
ADT =	N/A
K =	N/A %
D =	N/A %
T =	N/A % *
V =	40 MPH
N/A * TTST =	N/A DUAL
FUNC CLASS =	ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5994.....	0.291 Miles
TOTAL LENGTH TIP PROJECT U-5994.....	0.291 Miles

Prepared in the Offices of:

LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 571-7111

SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL (919) 859-2243

For the North Carolina Department of Transportation

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 OCTOBER 12, 2018

LETTING DATE:
 MAY 24, 2022

BRIAN K. EASON, PE
 PROJECT ENGINEER

CHRISTINA L. YOKEY, PE
 PROJECT DESIGN ENGINEER

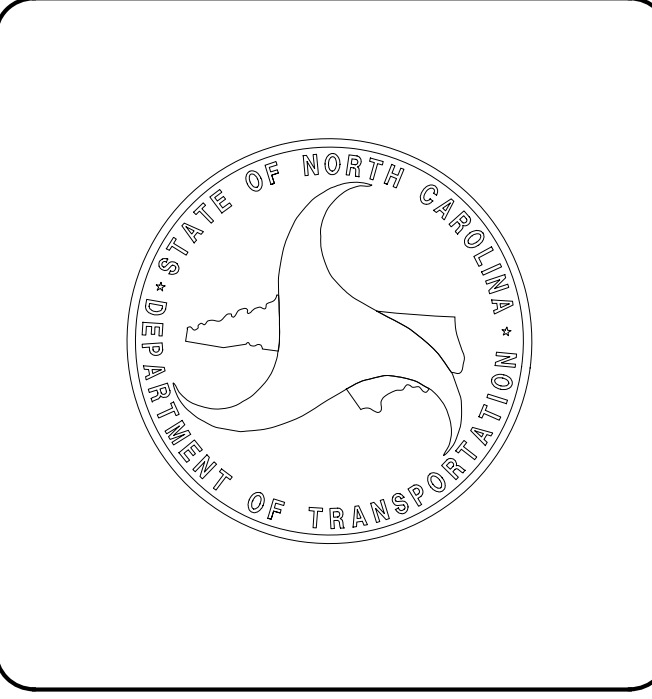
RACHEL EVANS, PE
 NCDOT CONTACT

HYDRAULICS ENGINEER

DocuSigned by:
 Joshua G Dalton
 1599A08C14994C3
 3/23/2022

ROADWAY DESIGN ENGINEER

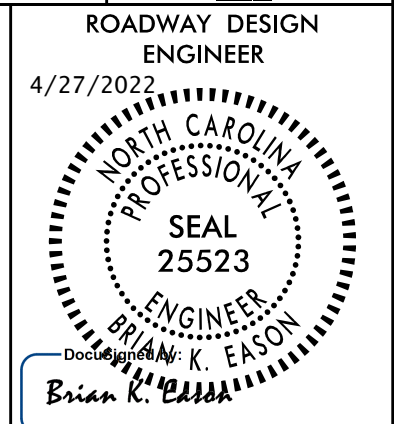
DocuSigned by:
 Brian K. Eason
 9AF015AD7AC48F
 3/23/2022



3/23/2022
 U-5994-rdy-tsh-01.dgn
 BEASON

B:17/99

PROJECT REFERENCE NO. <i>U-5994</i>	SHEET NO. <i>1A</i>
--	------------------------



**DOCUMENT NOT CONSIDERED FINAL
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INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS
1-B	CONVENTIONAL SYMBOLS
2A-1 thru 2A-3	PAVEMENT SCHEDULE, TYPICAL SECTIONS, and WEDGING DETAILS
2B-1	INTERSECTION DETAILS
2B-2	STANDARD CAST-IN-PLACE GRAVITY RETAINING WALL DETAIL
2B-3	DETAIL OF PIPE HANDRAIL MOUNTED ON A WALL
2B-4	DETAIL TO CONVERT CB TO TBJB
2B-5	MINIMUM DEPTH CATCH BASIN
2B-6	EMERGENCY VEHICLE ACCESS FOR CONCRETE ISLAND DETAIL
2N-1	RETAINING WALL DETAIL
3A-1	SUMMARY OF EARTHWORK, PAVEMENT REMOVAL, and METAL FENCE RAIL SUMMARY
3D-1	DRAINAGE SUMMARY
4 thru 5	ROADWAY PLANS
6 and 7	ROADWAY PROFILES
TMP-1 thru TMP-13	TRAFFIC MANAGEMENT PLANS
PMP-1 thru PMP-4	PAVEMENT MARKING PLANS
EC-1 thru EC-6	EROSION CONTROL PLANS
SIGN-1 thru SIGN-3	SIGNING PLANS
SIG-1 thru SIG-3.2	SIGNAL PLANS
U0-1 and U0-2	UTILITY BY OTHERS PLANS
X-1 thru X-12	CROSS-SECTIONS

	EFF. 01-16-2018
	REV.
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	
200.03	Method of Clearing - Method III
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 8 - INCIDENTALS	
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
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.54	Manhole Frame and Cover
848.01	Concrete Sidewalk
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
848.06	Curb Ramp - Existing Curb & Gutter

GENERAL NOTES: 2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

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

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

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

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

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE
Duke Energy, City of Goldsboro, Piedmont Natural Gas, AT&T, and Charter Communications.

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

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.

4/27/2022
16:54:26
1/5/24/2022
REASON

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	○ EIP
Computed Property Corner	_____ X
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-X-X-X-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- WLB ---
Proposed Wetland Boundary	WLB
Existing 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	▬
False Sump	▬

RAILROADS:

Standard Gauge	_____
RR Signal Milepost	○
Switch	□
RR Abandoned	_____
RR Dismantled	_____

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement 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	○ R W
New Right of Way Line with Pin and Cap	○ R W ◆
New Right of Way Line with Concrete or Granite R/W Marker	○ R W ◆
New Control of Access Line with Concrete C/A Marker	○ C/A
Existing Control of Access	○ C/A
New Control of Access	○ C/A
Existing Easement Line	--- E ---
New Temporary Construction Easement	--- E ---
New Temporary Drainage Easement	--- TDE ---
New Permanent Drainage Easement	--- PDE ---
New Permanent Drainage / Utility Easement	--- DUE ---
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	--- T ---
Proposed Guardrail	--- T ---
Existing Cable Guiderail	--- T ---
Proposed Cable Guiderail	--- T ---
Equality Symbol	⊕
Pavement Removal	▬

VEGETATION:

Single Tree	○
Single Shrub	○

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

Hedge	_____
Woods Line	_____
Orchard	_____
Vineyard	_____

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	_____
Footbridge	_____
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	_____
Storm Sewer Manhole	○ 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	□
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	_____
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	□
TV Tower	⊗
U/G TV Cable Hand Hole	_____
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:

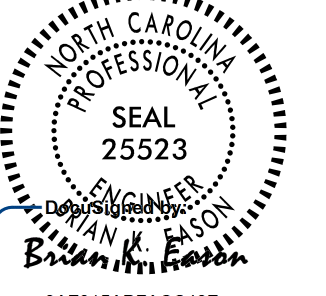
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown U/G Line LOS B (S.U.E.*)	--- 2UTL ---
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	□
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

5/14/99

LOCHNER

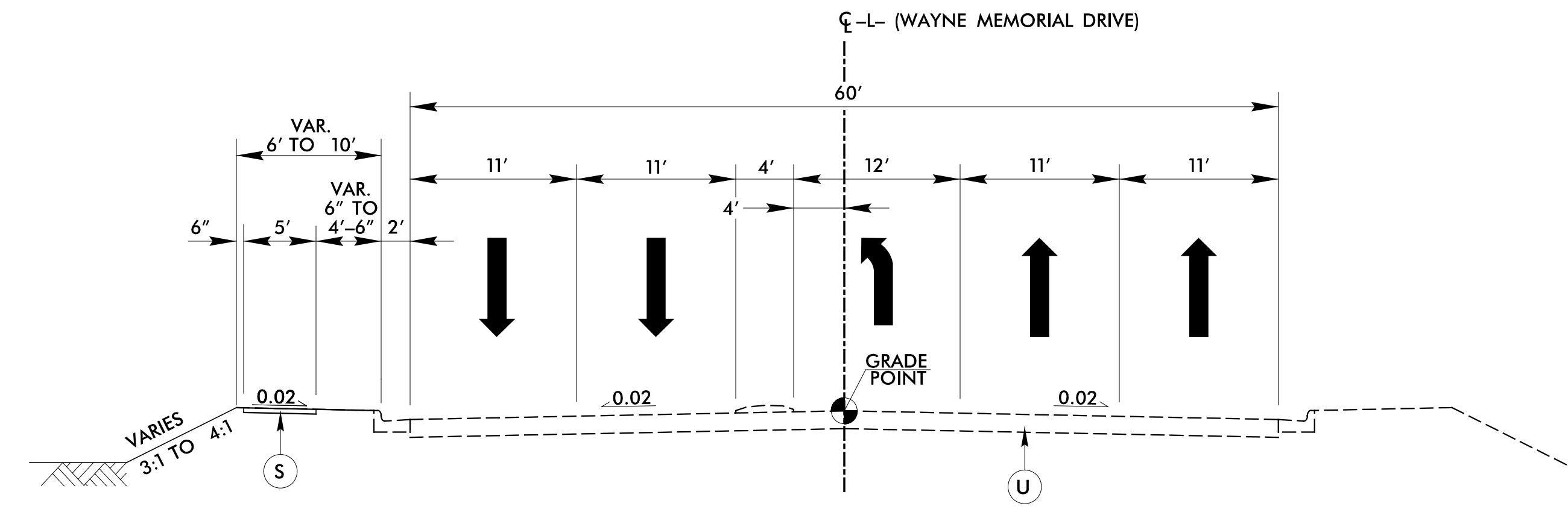
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111

NC License
Number F-0159

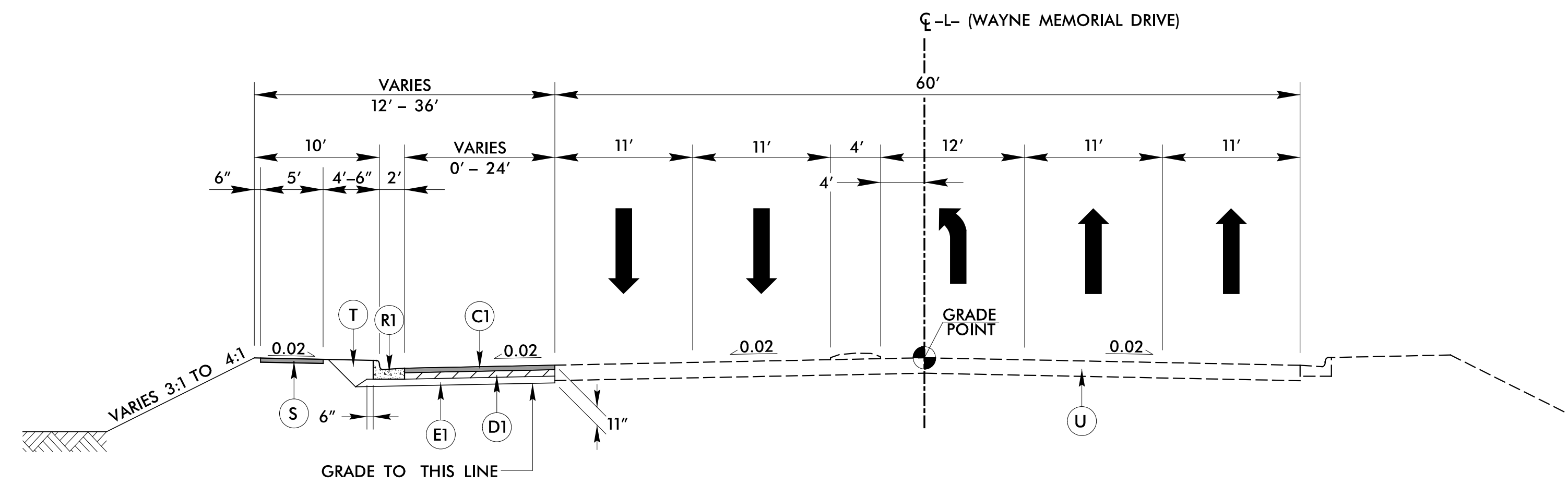
PROJECT REFERENCE NO. U-5994	SHEET NO. 2A-1
RW SHEET NO.	PAVEMENT DESIGN ENGINEER
ROADWAY DESIGN ENGINEER 4/18/2019	PAVEMENT DESIGN ENGINEER
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT SCHEDULE			
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	8"x18" CONCRETE CURB
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	T	EARTH MATERIAL.
R1	2'-6" CONCRETE CURB AND GUTTER.	U	EXISTING PAVEMENT.

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



TYPICAL SECTION 1
-L- STA. 15+82.19 TO STA. 16+75.00 (LT)



TYPICAL SECTION 2
-L- STA. 16+75.00 TO STA. 17+27.60 (LT)

2/4/2019
RPF:ASE
2/4/2019
4_rdy_tup_02A.dgn

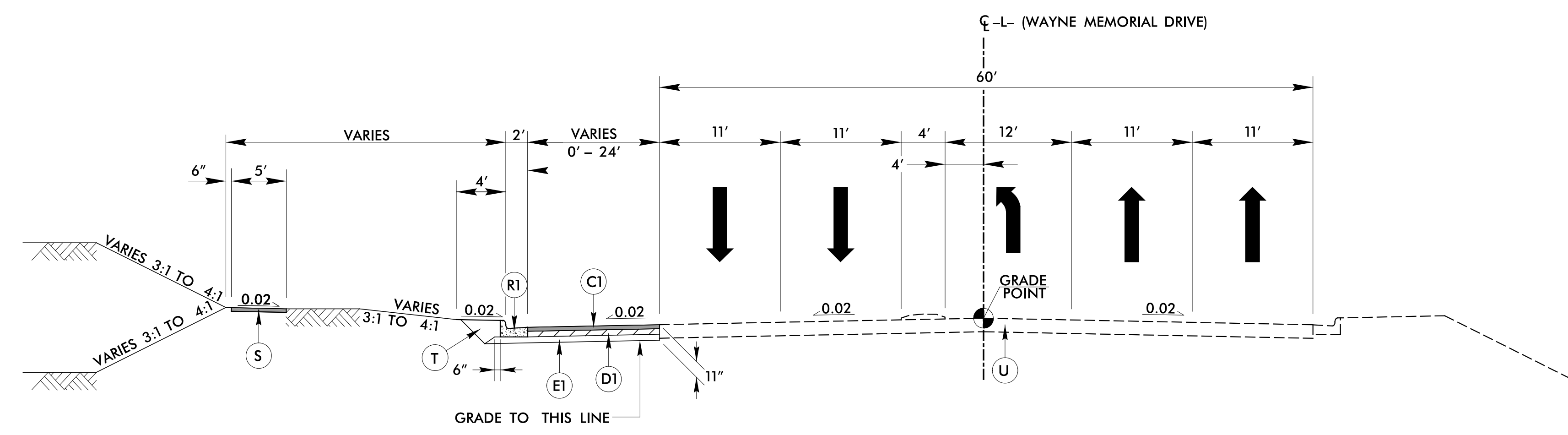
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LOCHNER

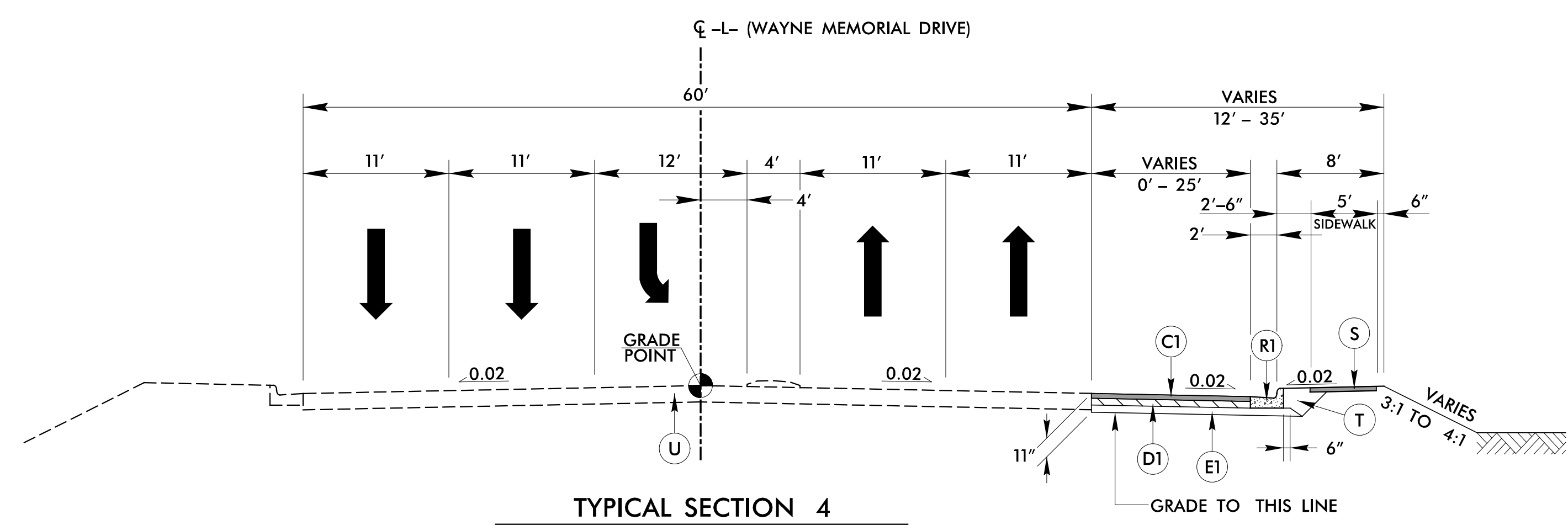
H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

NC License
 Number F-0159

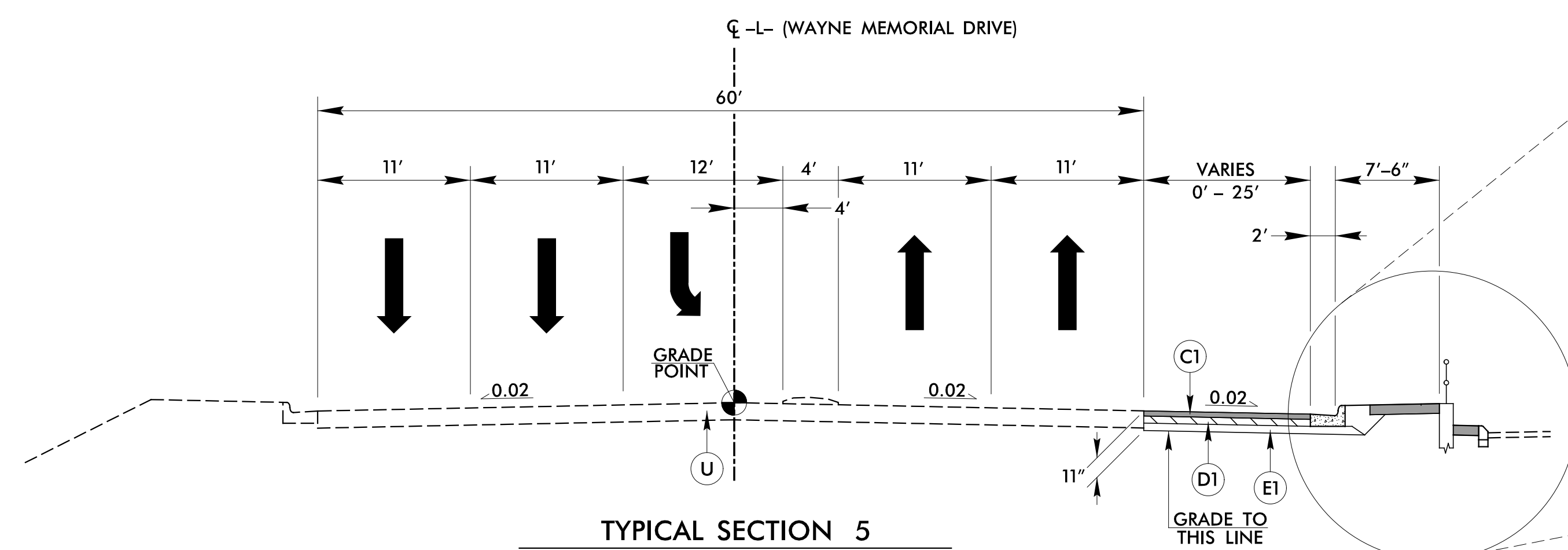
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER 4/18/2019	PAVEMENT DESIGN ENGINEER
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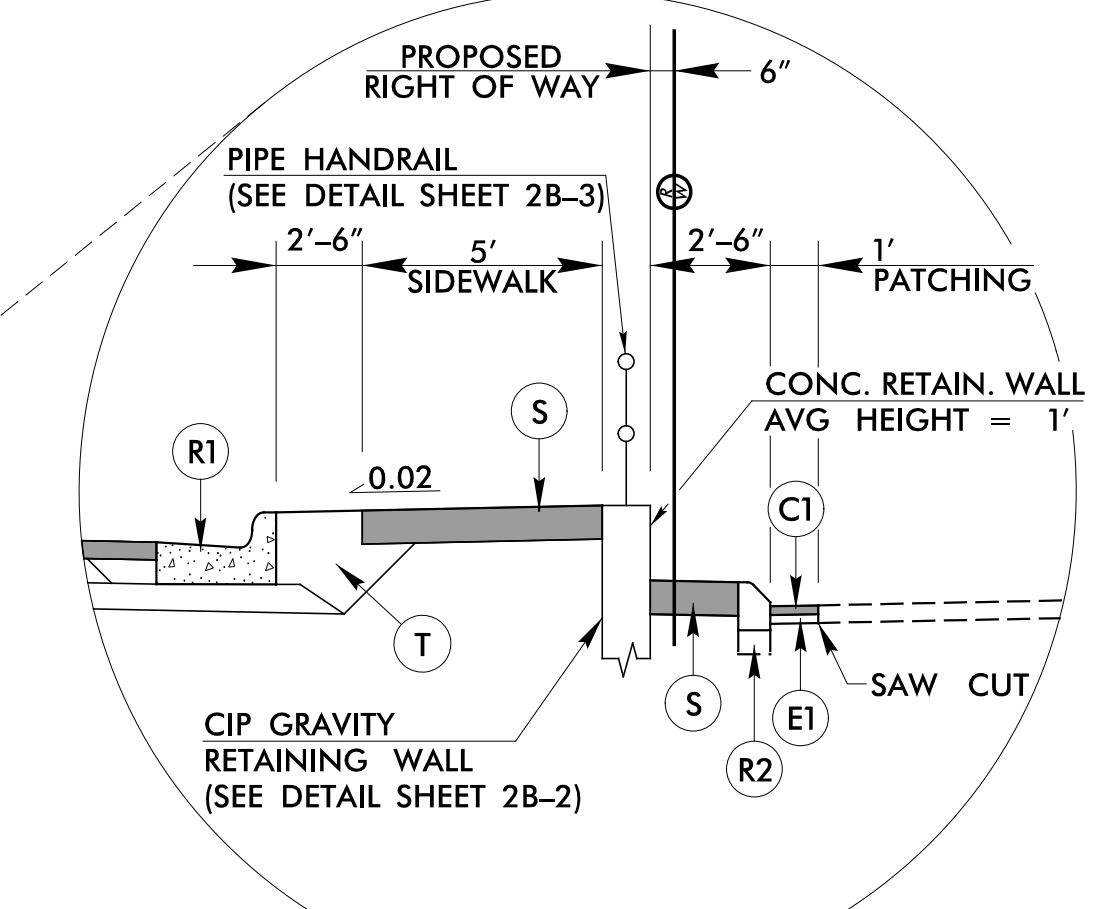
TYPICAL SECTION 3
 -L- STA. 17+27.60 TO STA. 17+94.01 (LT)



TYPICAL SECTION 4
 -L- STA. 18+30.45 TO STA. 18+73.27 (RT)
 -L- STA. 19+49.06 TO STA. 19+64.40 (RT)



TYPICAL SECTION 5
 -L- STA. 18+73.27 TO STA. 19+38.52



PAVEMENT SCHEDULE	
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
R1	2'-6" C&G
R2	8"x18" CURB
S	4" SIDEWALK
T	EARTH
U	EXIST. PVMT.

2/14/2019
 RPEASE

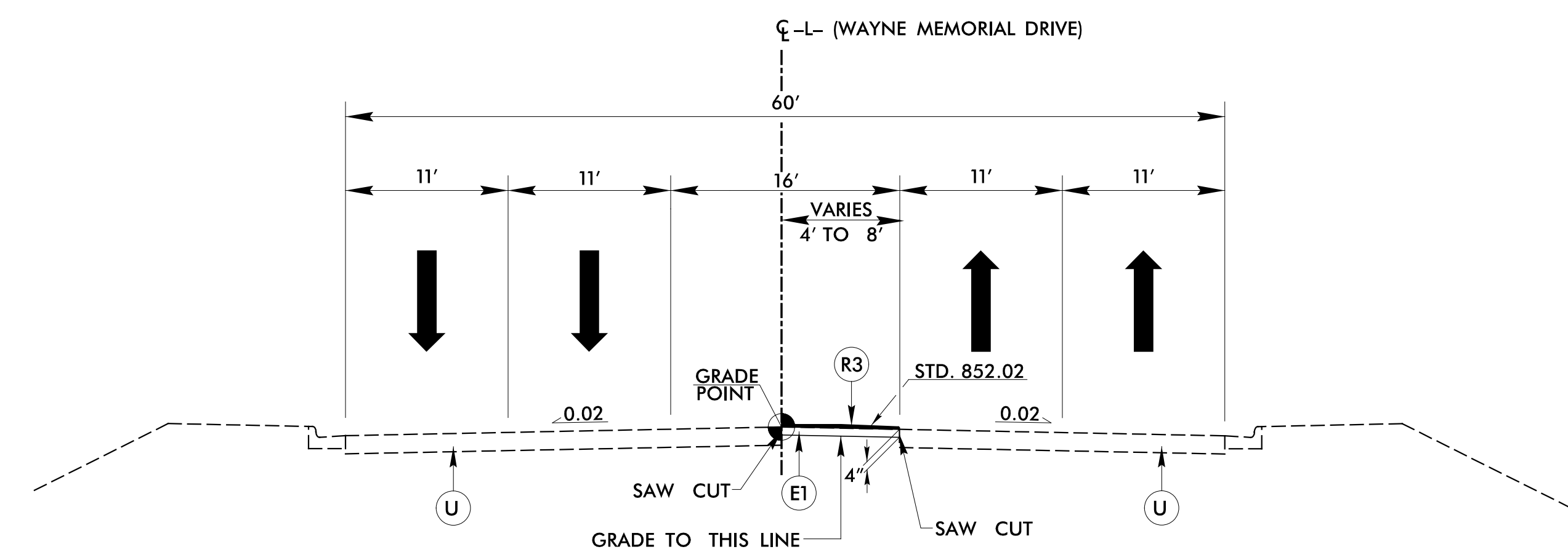
5/14/99

LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

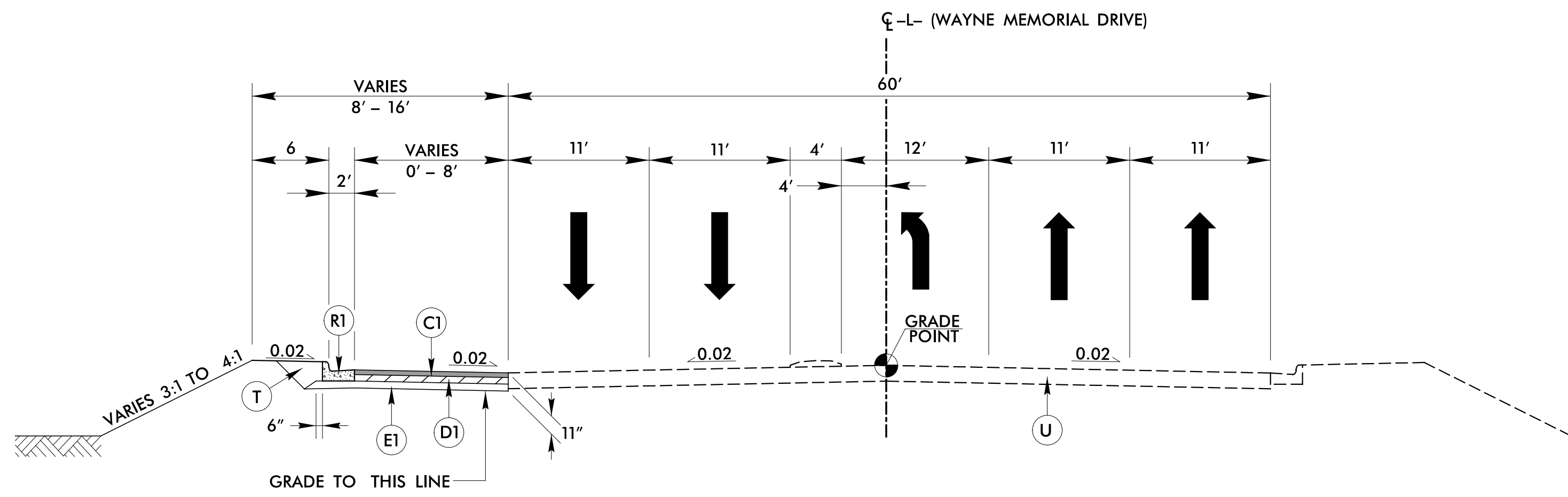
NC License
 Number F-0159
 2/28/2022

PROJECT REFERENCE NO. U-5994	SHEET NO. 2A-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 2/28/2022	PAVEMENT DESIGN ENGINEER

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



TYPICAL SECTION 6
 -L- STA. 23+56.50 TO STA. 23+91.00
 (EMERGENCY MEDIAN ACCESS)



TYPICAL SECTION 7
 -L- STA. 30+66.26 TO STA. 31+19.70 (LT)

PAVEMENT SCHEDULE	
C1	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
R1	2'-6" C&G
R2	8"x18" CURB
R3	CONC. ISLAND
S1	4" SIDEWALK
T	EARTH
U	EXIST. PVMT.

2/23/2022
 16:56:21_rdy_tup_02A.dgn
 REASON

INTERSECTION DETAILS

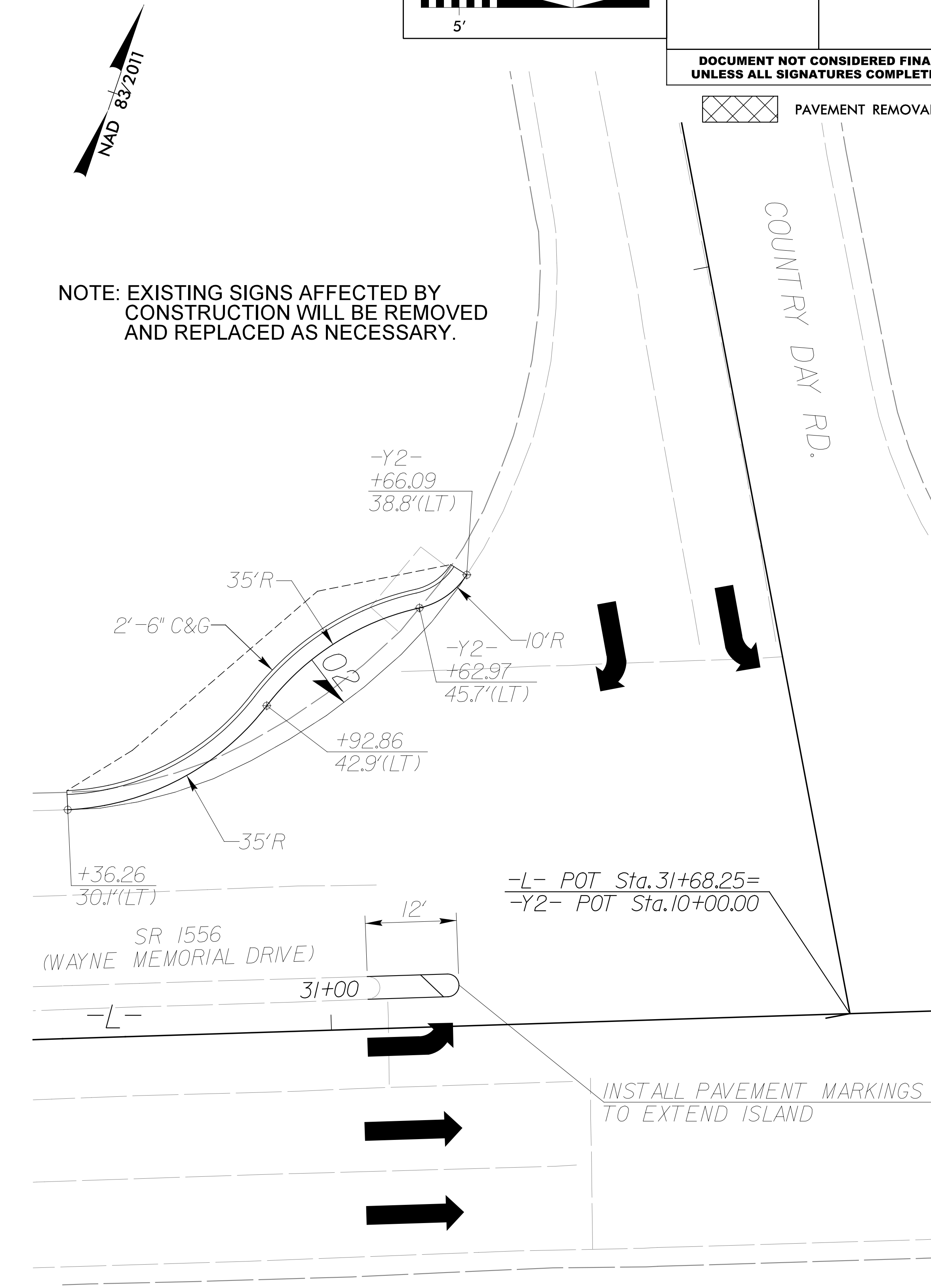
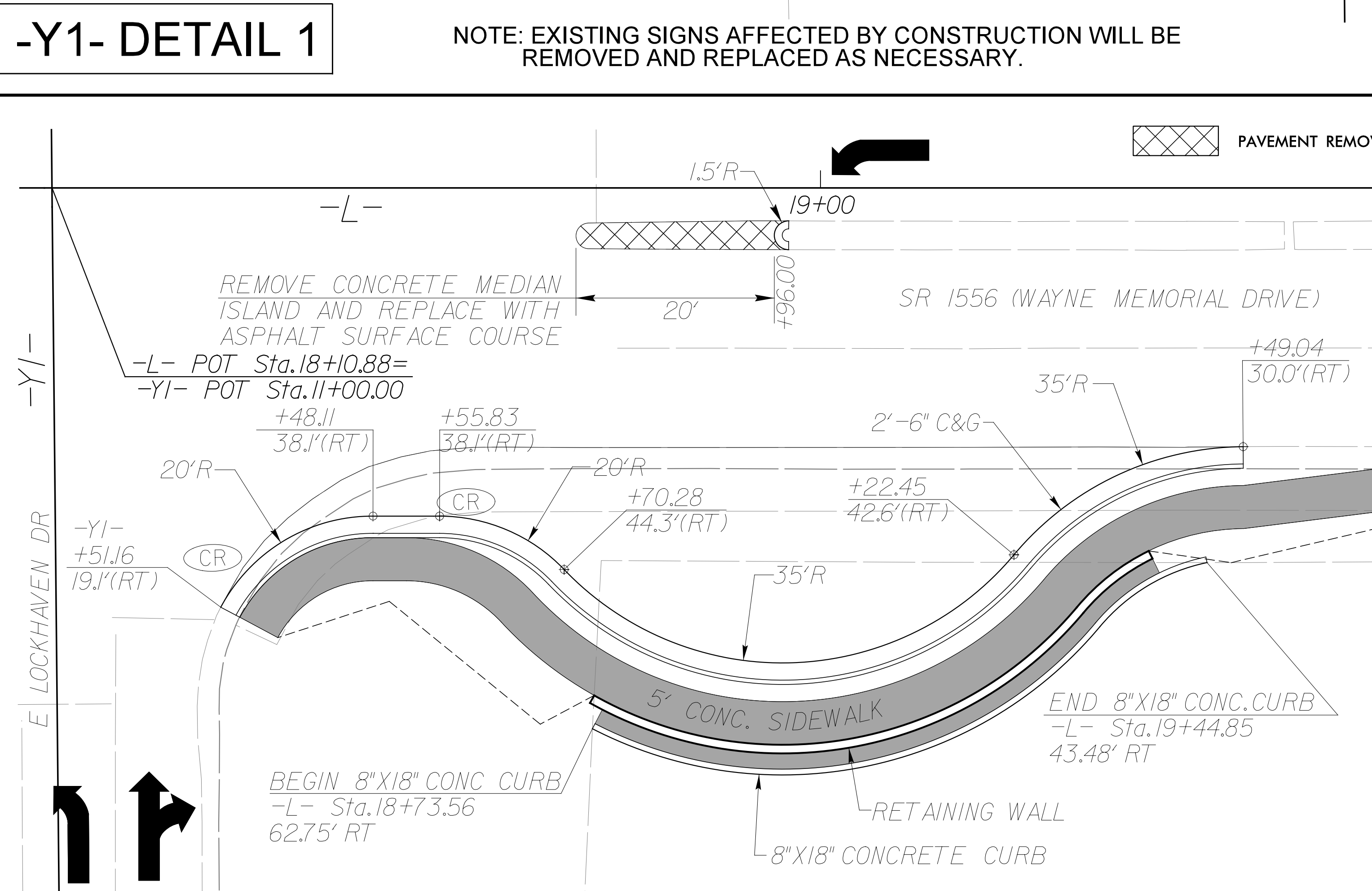
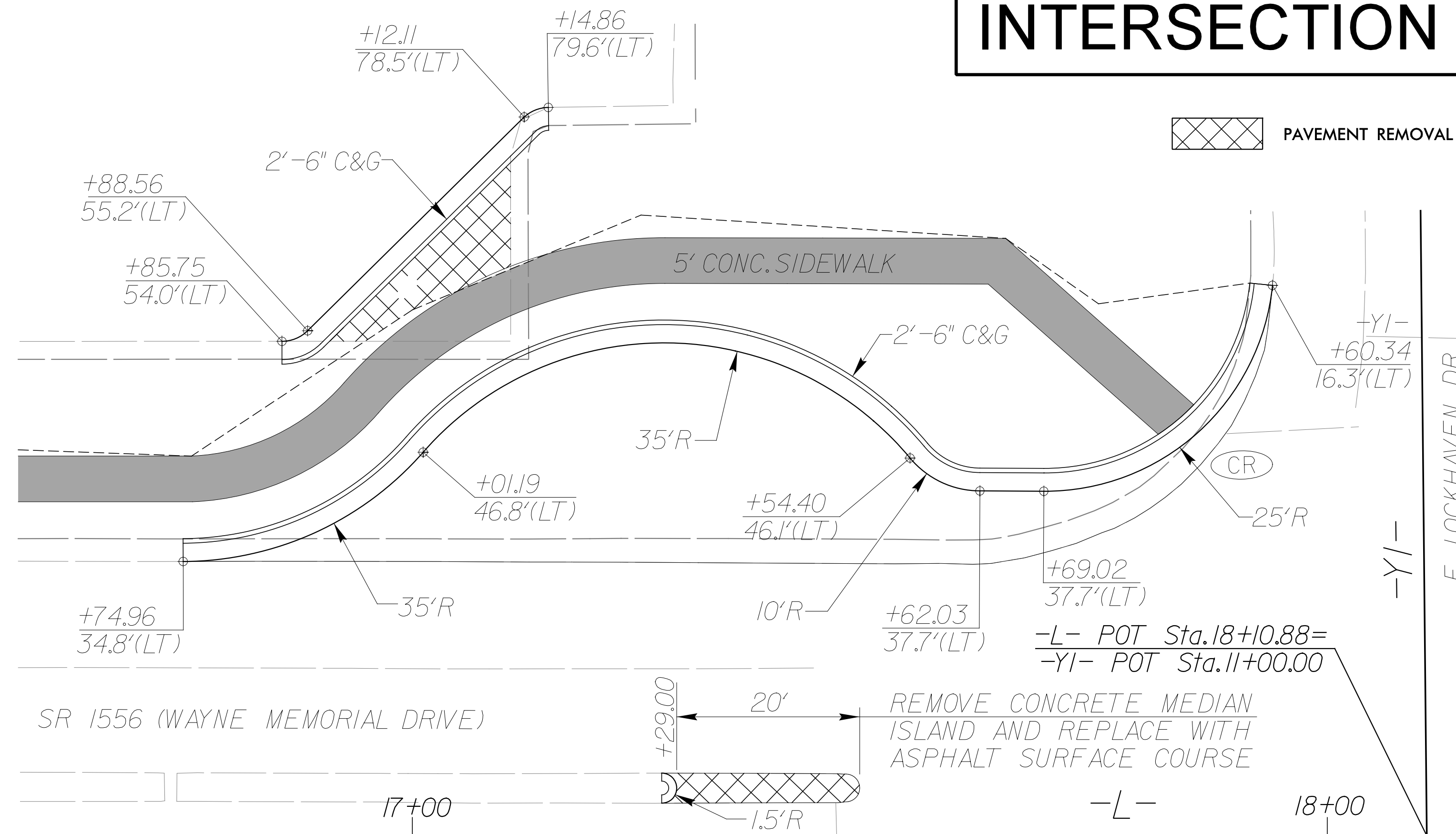
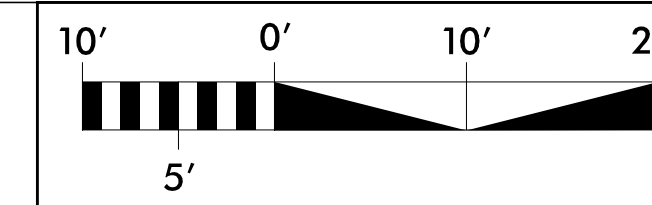
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 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

NC License Number F-0159

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 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL: (919) 859-2292
 NC FIRM LICENSE NO. C-890

PROJECT REFERENCE NO. U-5994	SHEET NO. 2B-1
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

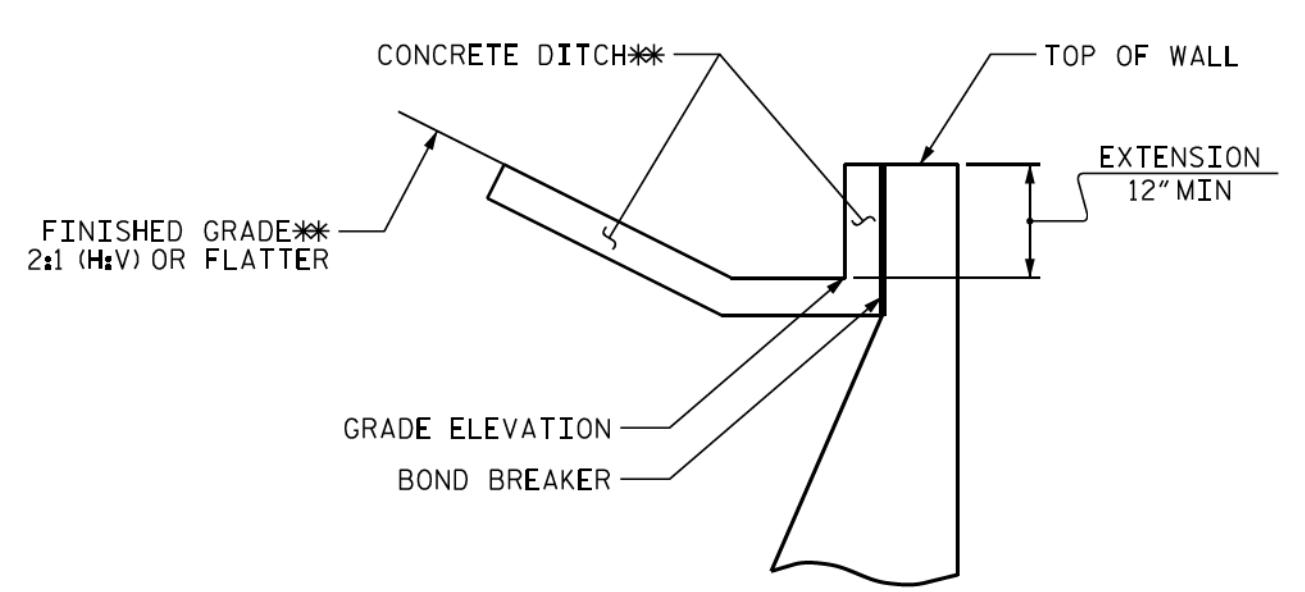
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UNLESS ALL SIGNATURES COMPLETED**



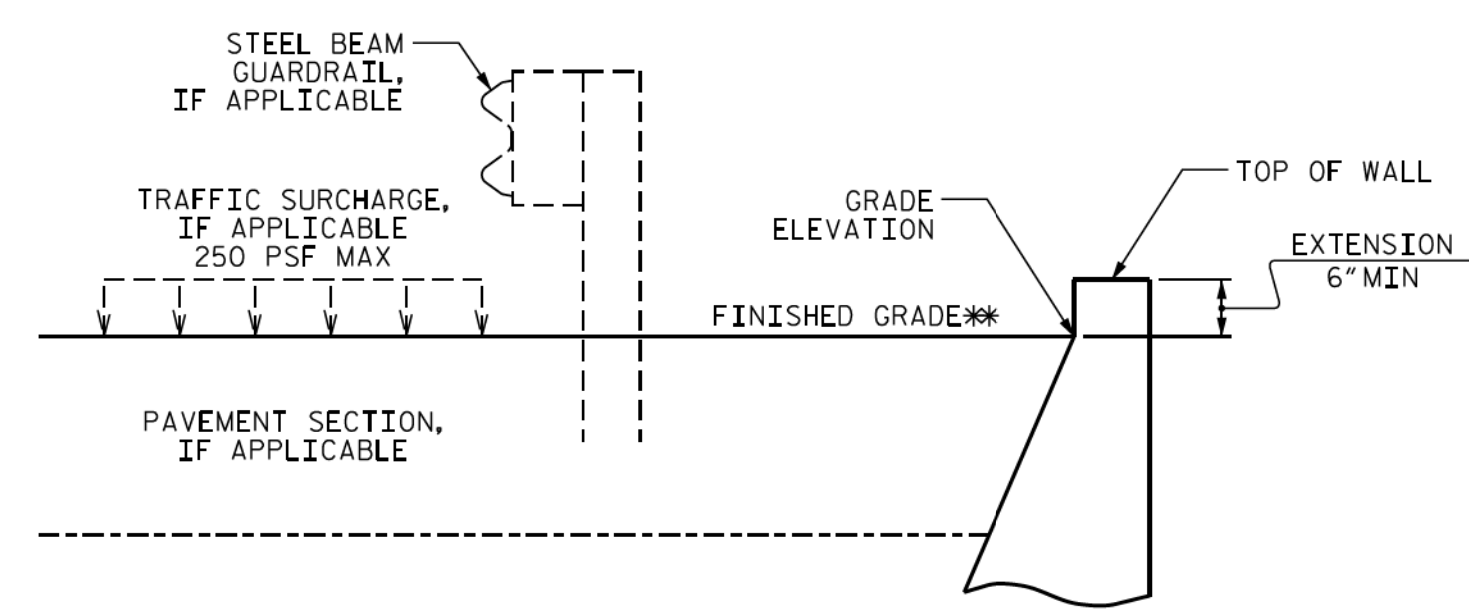
-Y2- DETAIL 1

FOR -L- PROFILE, SEE SHEET 6
 FOR -YI- PROFILE, SEE SHEET 7
 SEE SHEETS 4 & 5 FOR PLAN VIEW
 SEE SHEET 2N-1 FOR RETAINING WALL ENVELOPE

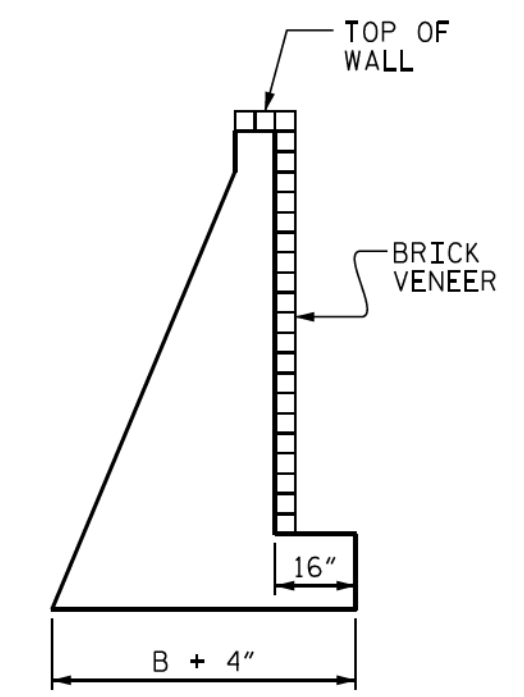
5/14/99
2/14/2008
RREF:CASE



SLOPE CASE
**SEE ROADWAY PLANS FOR CONCRETE DITCH AND FINISHED GRADE DETAILS.

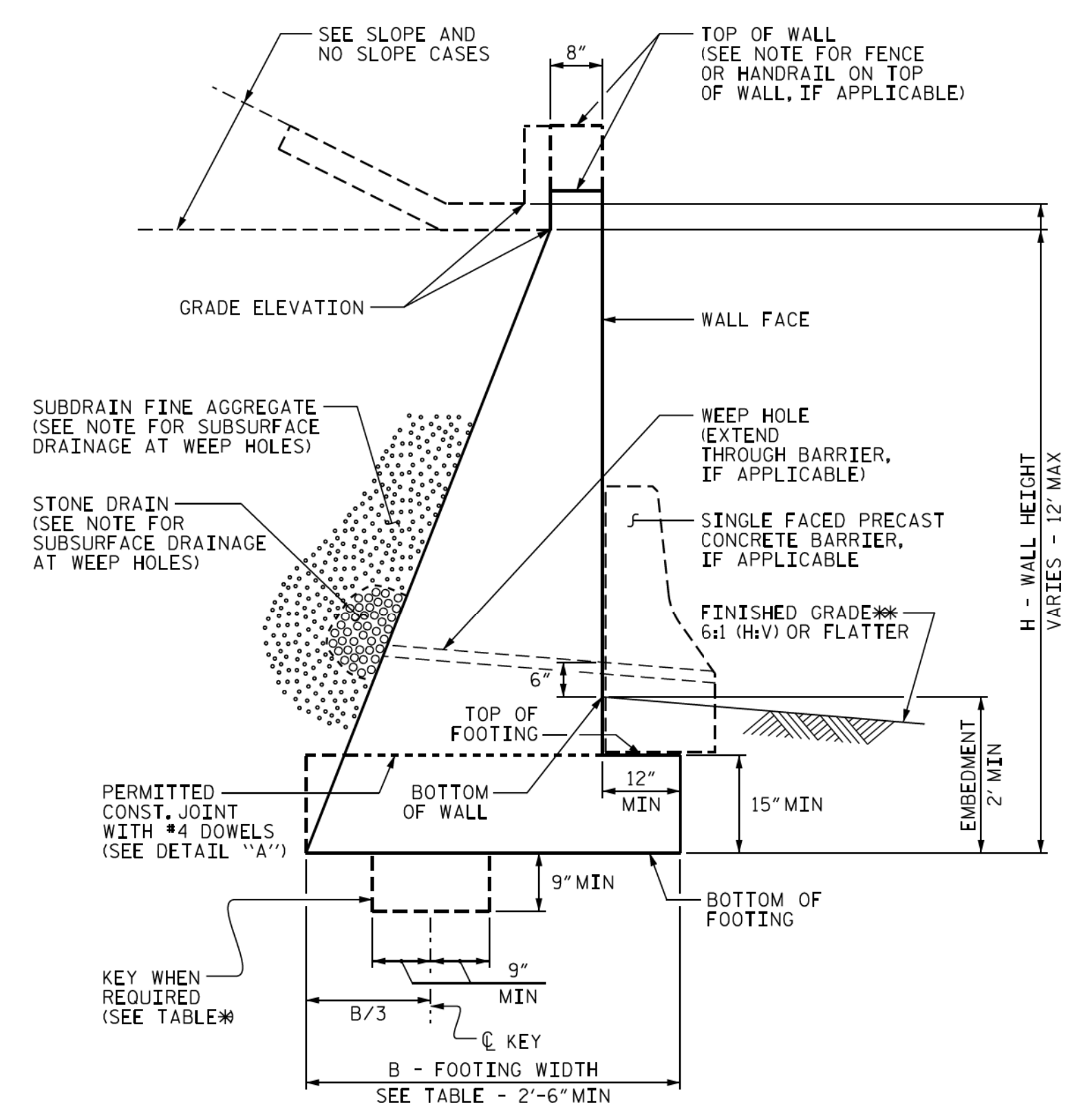


NO SLOPE CASE
**SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.

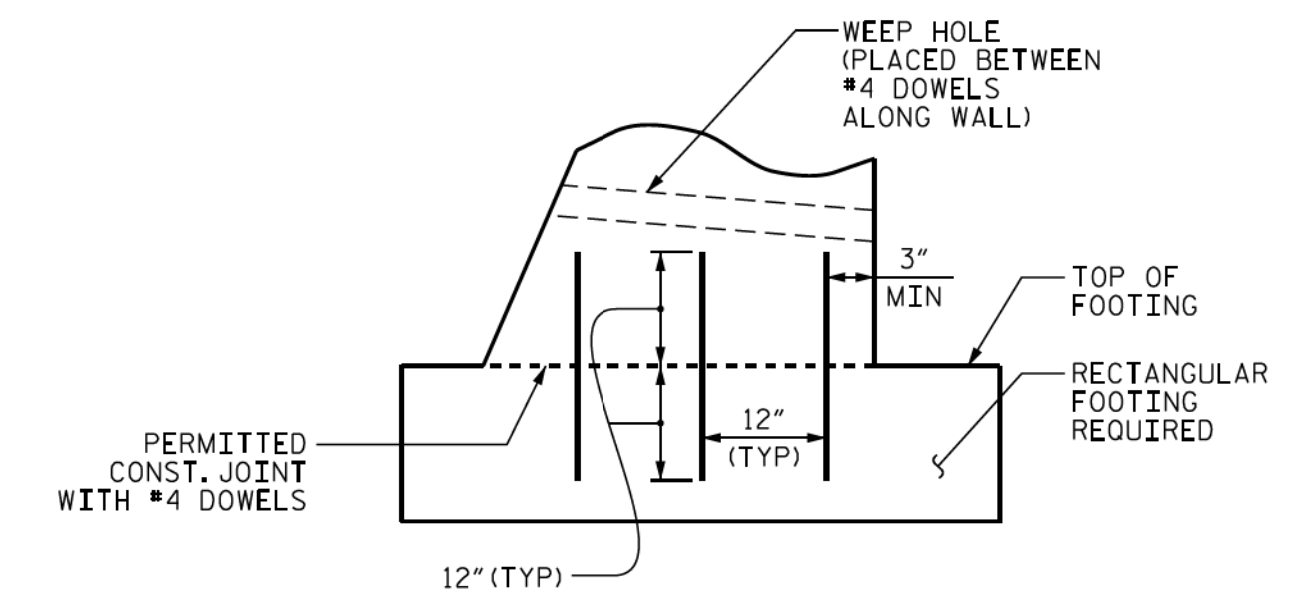


BRICK VENEER DETAIL
(WHEN APPLICABLE)

GEOTECHNICAL ENGINEER 2/11/2019 SIGNATURE DATE	ENGINEER SIGNATURE DATE
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



STANDARD CIP GRAVITY WALL
**SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



DETAIL "A"

H (FT)	3 - < 6	6 - 9	> 9 - 12
SLOPE CASE	.66	.70*	.75*
NO SLOPE CASE WITH TRAFFIC SURCHARGE	.80	.75*	.70*
NO SLOPE CASE WITHOUT TRAFFIC SURCHARGE	.60	.60	.60

B/H RATIO (B = 2'-6" MIN)
*KEY IS REQUIRED FOR "SLOPE CASE" OR "NO SLOPE CASE WITH TRAFFIC SURCHARGE" WHEN H IS 6' OR GREATER.

NOTES:

- FOR STANDARD CIP GRAVITY RETAINING WALLS, SEE SECTION 453 OF THE STANDARD SPECIFICATIONS.
- FOR STEEL BEAM GUARDRAIL, SEE ROADWAY PLANS AND SECTION 862 OF THE STANDARD SPECIFICATIONS.
- FOR SINGLE FACED PRECAST CONCRETE BARRIER, SEE ROADWAY PLANS AND SECTION 857 OF THE STANDARD SPECIFICATIONS.
- FOR FENCES OR HANDRAILS ON TOP OF WALLS, SEE ROADWAY PLANS FOR FENCE OR HANDRAIL ATTACHMENT DETAILS.
- FOR SUBSURFACE DRAINAGE AT WEEP HOLES, SEE ARTICLE 414-8 OF THE STANDARD SPECIFICATIONS.
- STANDARD CIP GRAVITY WALLS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
 UNIT WEIGHT, $\gamma = 120$ PCF
 FRICTION ANGLE, $\phi = 35$ DEGREES (GROUNDWATER WITHIN 7' OF BOTTOM OF FOOTING)
 FRICTION ANGLE, $\phi = 30$ DEGREES (GROUNDWATER MORE THAN 7' BELOW BOTTOM OF FOOTING)
 COHESION, $c = 0$ PSF
- DO NOT USE STANDARD CIP GRAVITY WALLS IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE OR GROUNDWATER IS ABOVE BOTTOM OF FOOTING.
- DO NOT USE STANDARD CIP GRAVITY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW WALLS.
- BEFORE BEGINNING STANDARD CIP GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND SUBMIT WALL PROFILE VIEWS (WALL ENVELOPES) FOR REVIEW. FOR WALL ENVELOPES, INCLUDE BOTTOM OF WALL, EXISTING GROUND AND GRADE ELEVATIONS AND OTHER ELEVATIONS AS NEEDED AT INTERVALS OF 25' OR LESS ALONG WALLS. DO NOT START WALL CONSTRUCTION UNTIL WALL ENVELOPES ARE ACCEPTED.
- FOR BRICK VENEERS, SUBMIT BRICK SAMPLES FOR APPROVAL BEFORE BEGINNING STANDARD CIP GRAVITY WALL CONSTRUCTION.
- DO NOT PLACE CONCRETE FOR FOOTINGS UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
- WHEN CONSTRUCTING STANDARD CIP GRAVITY WALLS WITH A CONSTRUCTION JOINT AS SHOWN IN DETAIL "A", PROVIDE A MINIMUM OF 3 EQUALLY SPACED #4 DOWELS AT INTERVALS OF 1'-6" ALONG WALLS.

PROJECT NO.: U-5994
 WAYNE COUNTY
 STATION: -L- STA. 18+80.00
 SHEET 1 OF 1

**NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS**
**GEOTECHNICAL
 ENGINEERING UNIT**

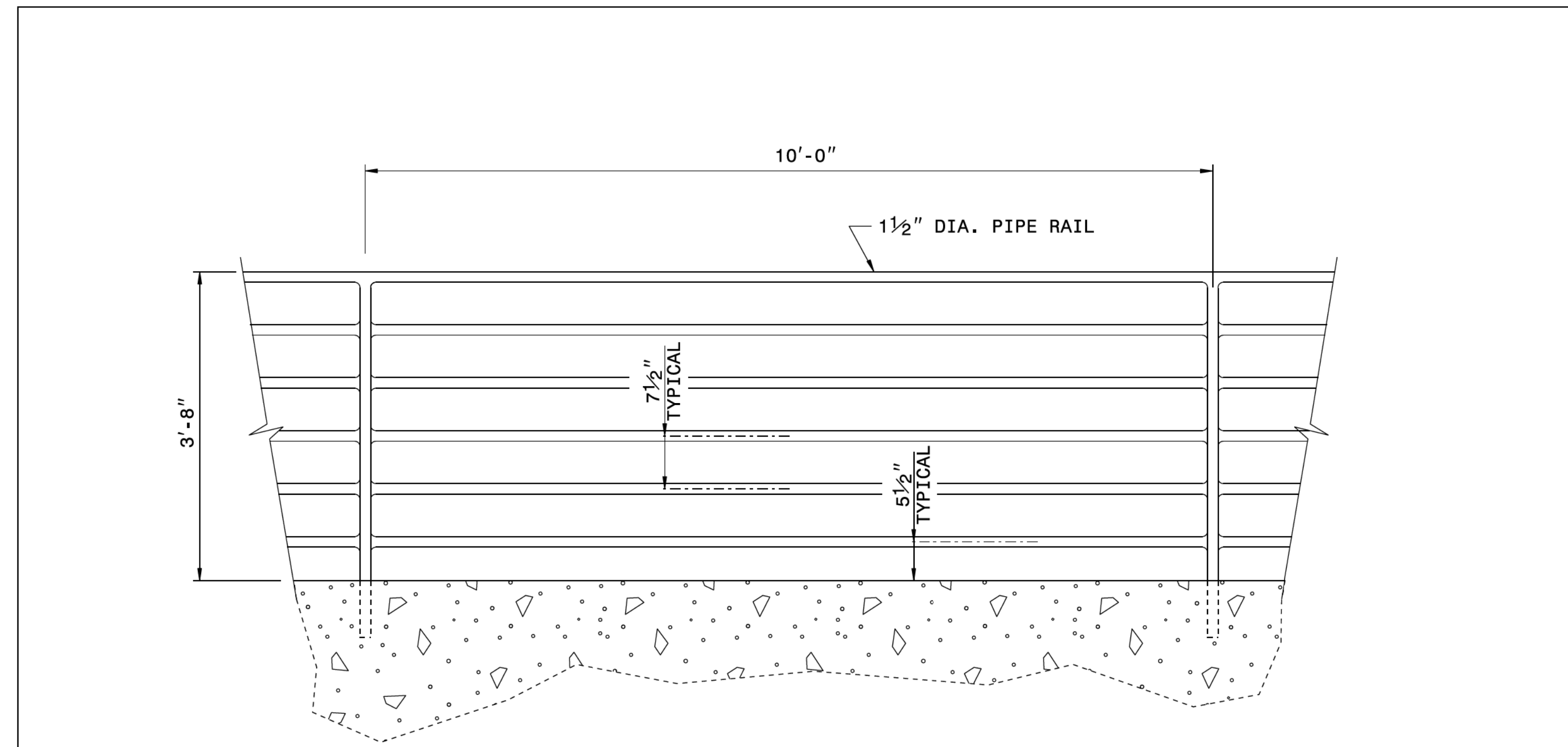
STANDARD DETAIL NO. 453.01
**STANDARD
 CAST-IN-PLACE (CIP)
 GRAVITY RETAINING WALL**
 DATE: 1-16-18
 SHEET NO. 2B-2

5/14/99

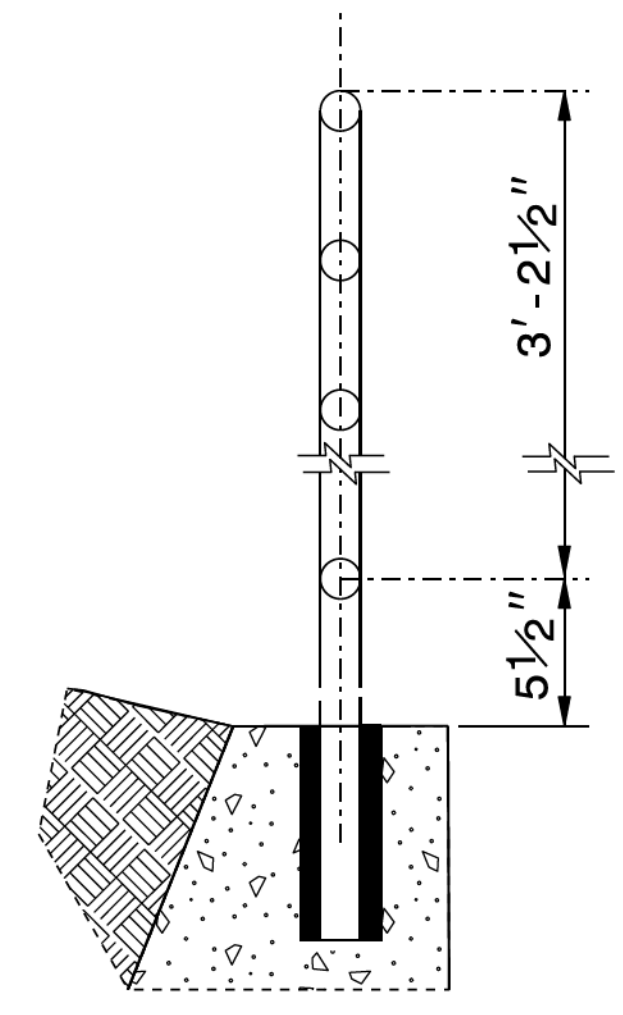
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 RPE/ASE

PROJECT REFERENCE NO.	SHEET NO.
U-5994	2B-3
RW SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

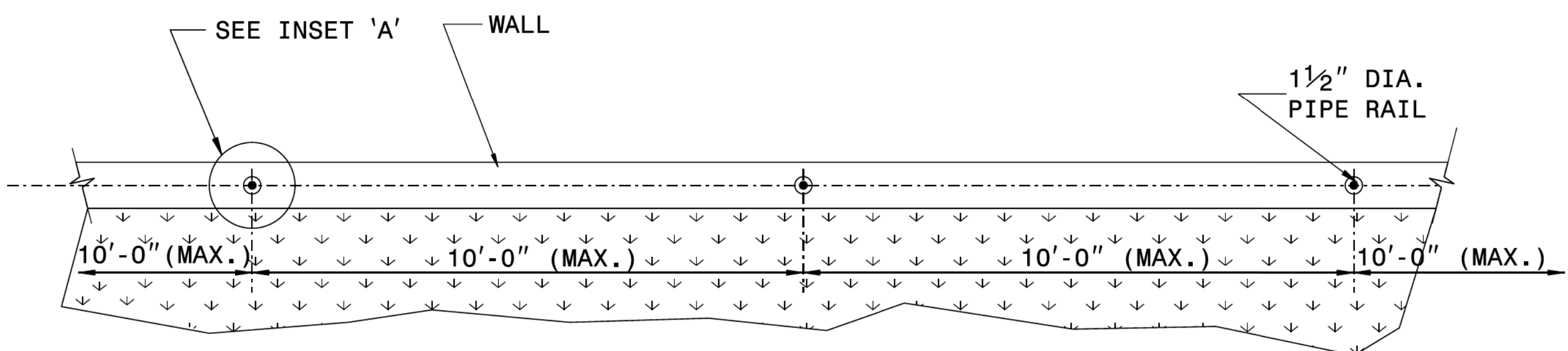
PROJECT REFERENCE NO.	SHEET NO.
-----------------------	-----------



ELEVATION OF HANDRAIL



INSET 'A'



PLAN VIEW

NOTES:

- CONSTRUCT PROPOSED STEEL PIPE RAIL 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.
- EMBED PIPE RAIL INTO PROPOSED WALL WITH CHEMICAL OR CONCRETE GROUT ANCHORING SYSTEM PER THE WALL MANUFACTURER'S RECOMMENDATIONS.
- REPAIR GALVANIZING IN ACCORDANCE WITH SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.
- BLACK PAINT, REQUIRED BY THE DIVISION, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS
- CENTER THE PROPOSED RAILING ON TOP OF THE WALL WITH POST SPACING SYMMETRICAL ABOUT THE CENTER-LINE OF THE WALL.
- WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.
- SUBMIT THE ATTACHMENT OF THE HANDRAIL TO THE RETAINING WALL TO THE CONTRACTS AND STANDARDS OFFICE FOR APPROVAL.

24 MAY 2008 10:08 AM S:\Contracts\Special Details\Howerton\Handrail on Retaining Wall.dgn jhowerton AT CSP-252595

4/17/2009 10:08 AM S:\Contracts\Special Details\Howerton\Handrail on Retaining Wall.dgn jhowerton AT CSP-252595



DocuSigned by: *S. Howerton*

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

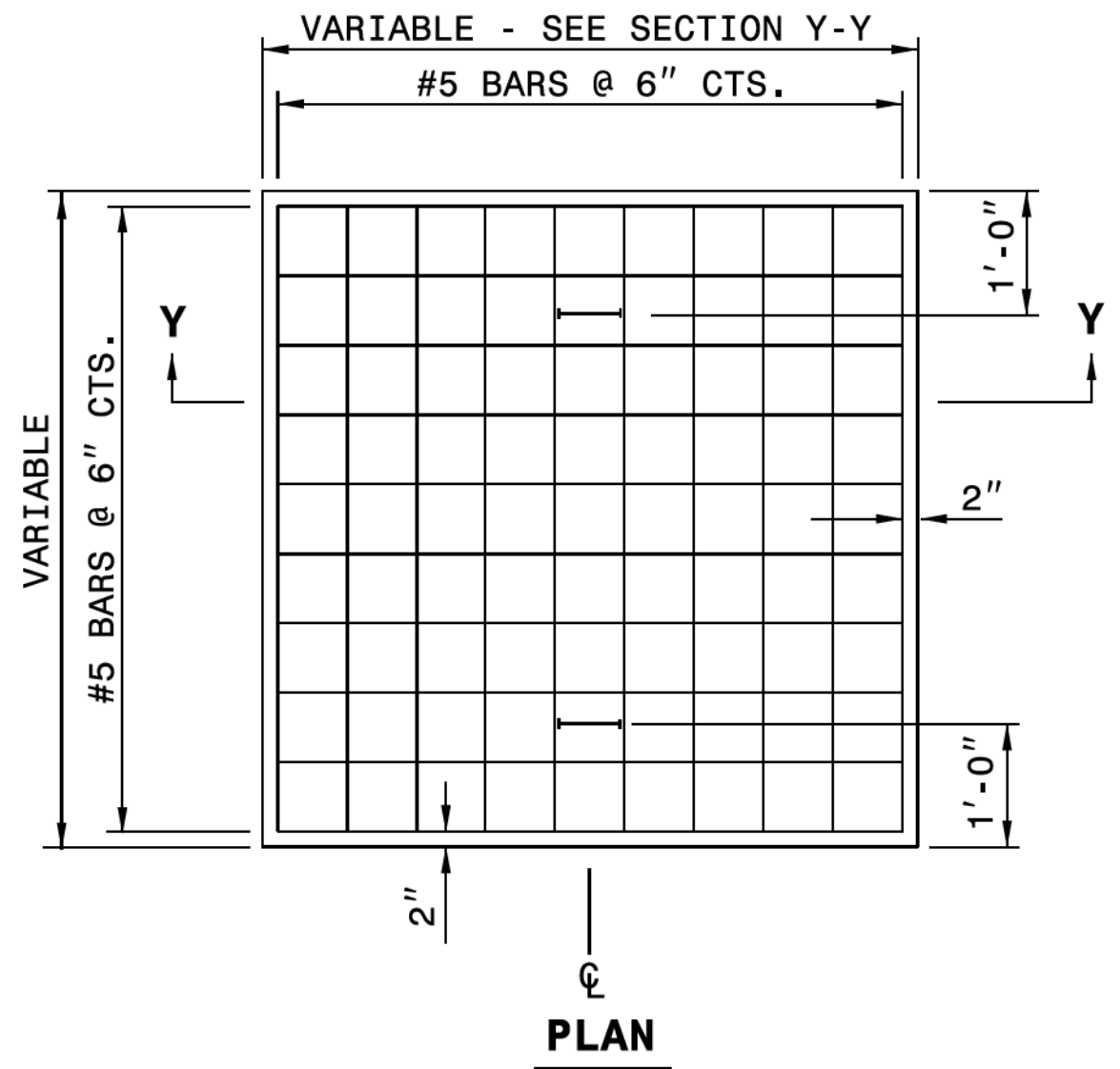
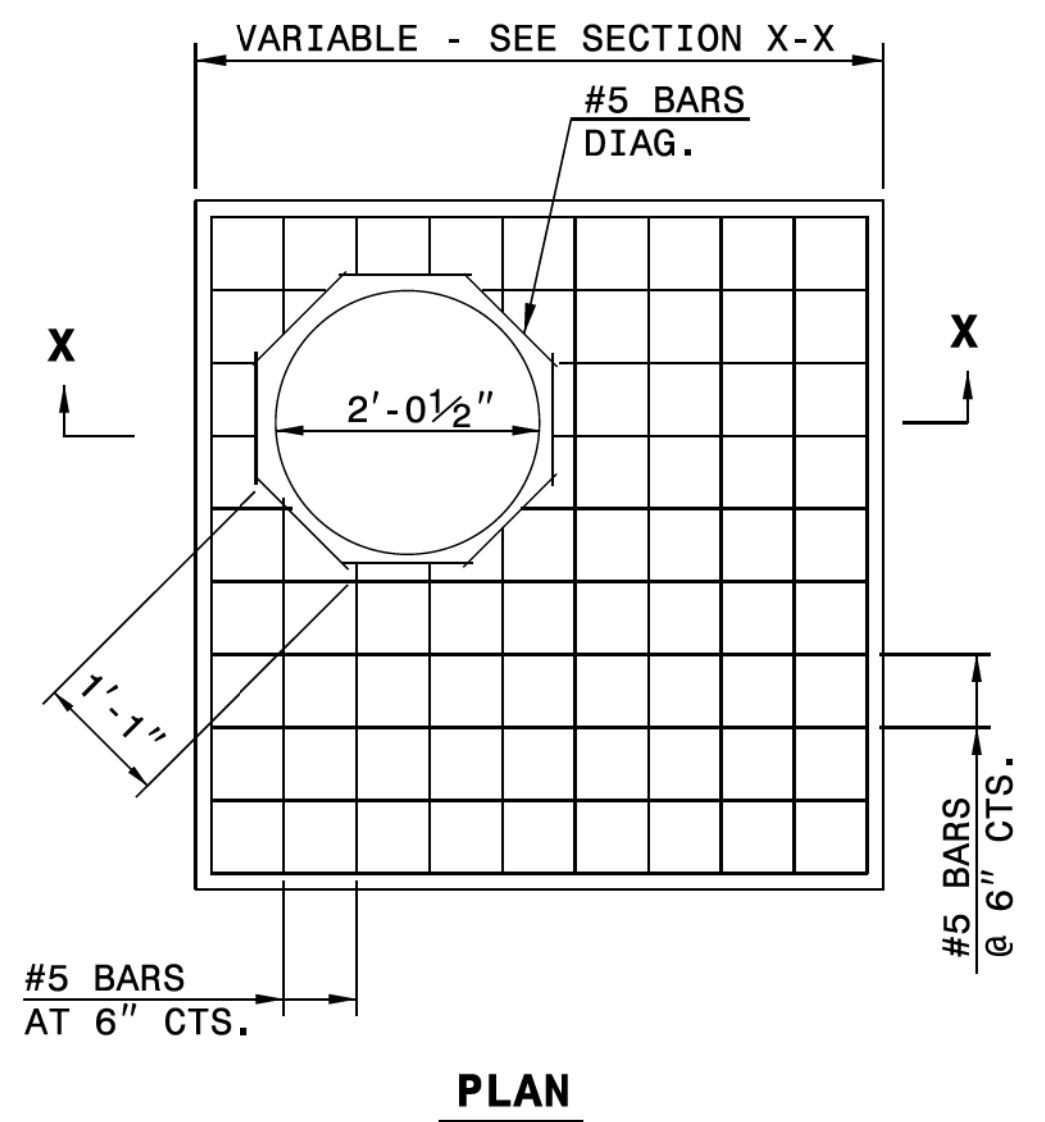
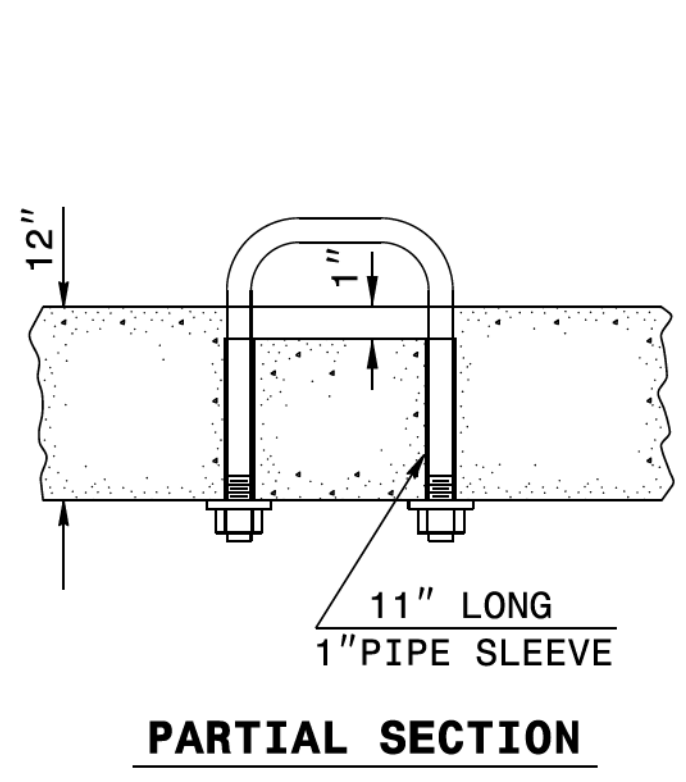
DETAIL OF PIPE HANDRAIL MOUNTED ON A WALL

ORIGINAL BY: E.E. WARD DATE: 12-99
 MODIFIED BY: DATE: _____
 CHECKED BY: DATE: _____
 FILE SPEC.: howerton/handrail on retaining wall.dgn

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-5994	2B-4
RW SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

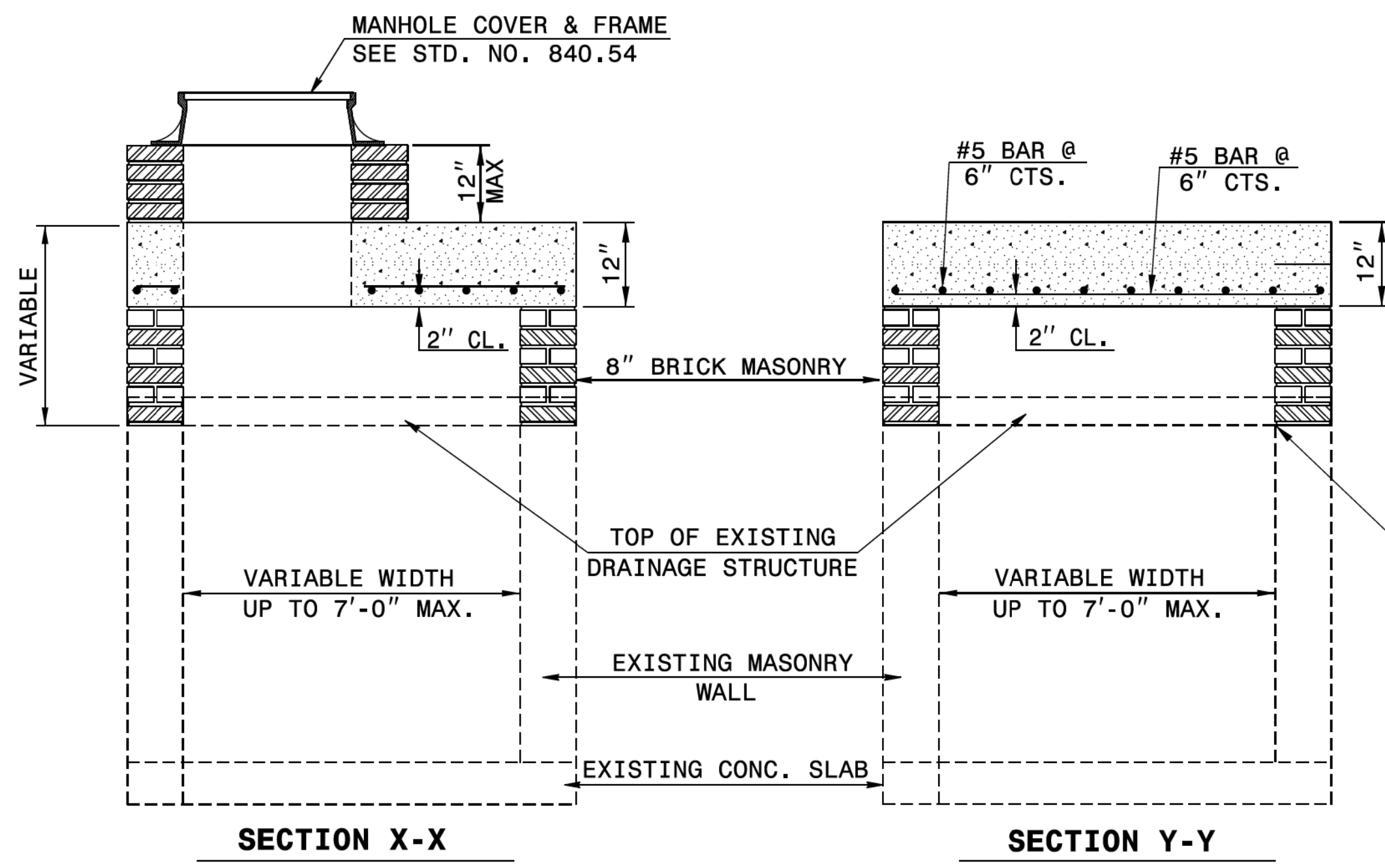
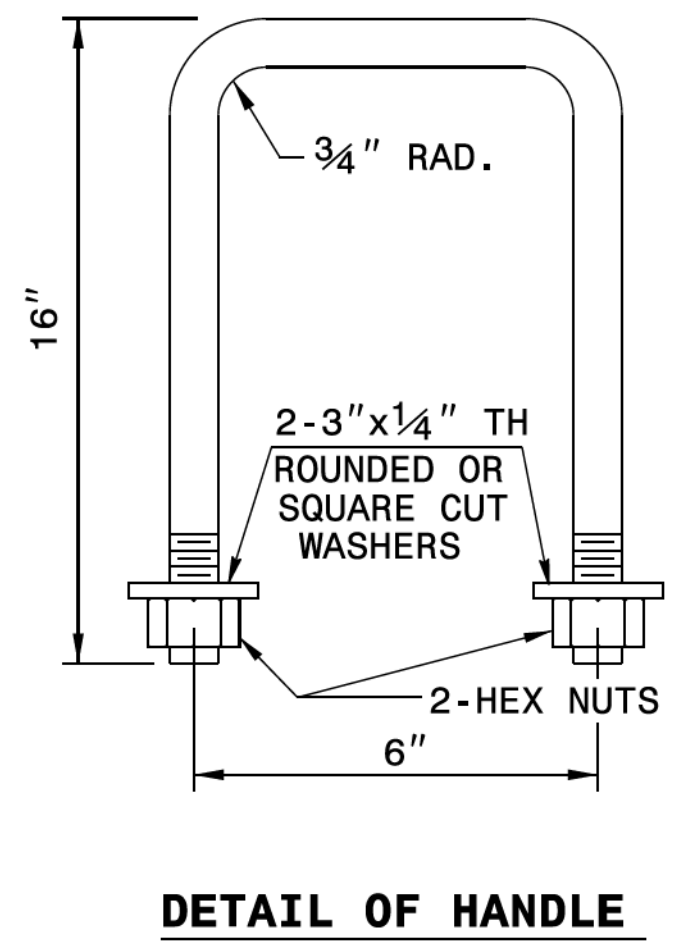
PROJECT REFERENCE NO.	SHEET NO.
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GENERAL NOTES:
 CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.
 FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOXES.

BILL OF MATERIALS			
MASONRY			
TOP SLAB CONCRETE CLASS "A"		.037YDS ³	PER FT ²
BRICK MASONRY		.025YDS ³	PER FT ²
REINFORCING STEEL		7.64LBS	PER FT ²
MANHOLE OPTION QUANTITIES			
SIZE	QTY.	LENGTH	REINF. STEEL LBS.
#5 DIAG.	8	1'-1"	9.04

NOTE:
 CONCRETE AND REINFORCING STEEL QUANTITIES BASED ON SQUARE FOOT AREA OF THE PROPOSED TOP SLAB FOR THE EXISTING DRAINAGE STRUCTURE.
 BRICK MASONRY QUANTITY IS BASED ON THE TOTAL SQUARE FOOTAGE OF EXTERIOR WALL SURFACE AREA TO BE CONSTRUCTED.



ALIGN PROPOSED BRICK VERTICAL ADJUSTMENT TO INNER FACE OF WALL

4/18/2019

Professional Engineer Seal for S. Howard

DocuSigned by: S. Howard

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
DETAIL TO CONVERT EXISTING TRAFFIC BEARING DROP INLET OR CATCH BASIN TO TRAFFIC BEARING JUNCTION BOX (MANHOLE OPTIONAL)			
ORIGINAL BY:	T.S.S.	DATE:	FEB. 2000
MODIFIED BY:	E.E.W.	DATE:	NOV. 2001
CHECKED BY:		DATE:	
FILE SPEC.:	w:\erloward\usr\details\stand\boxtotbjbe.dgn		

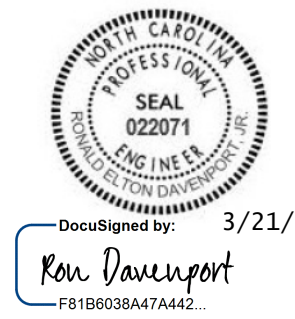
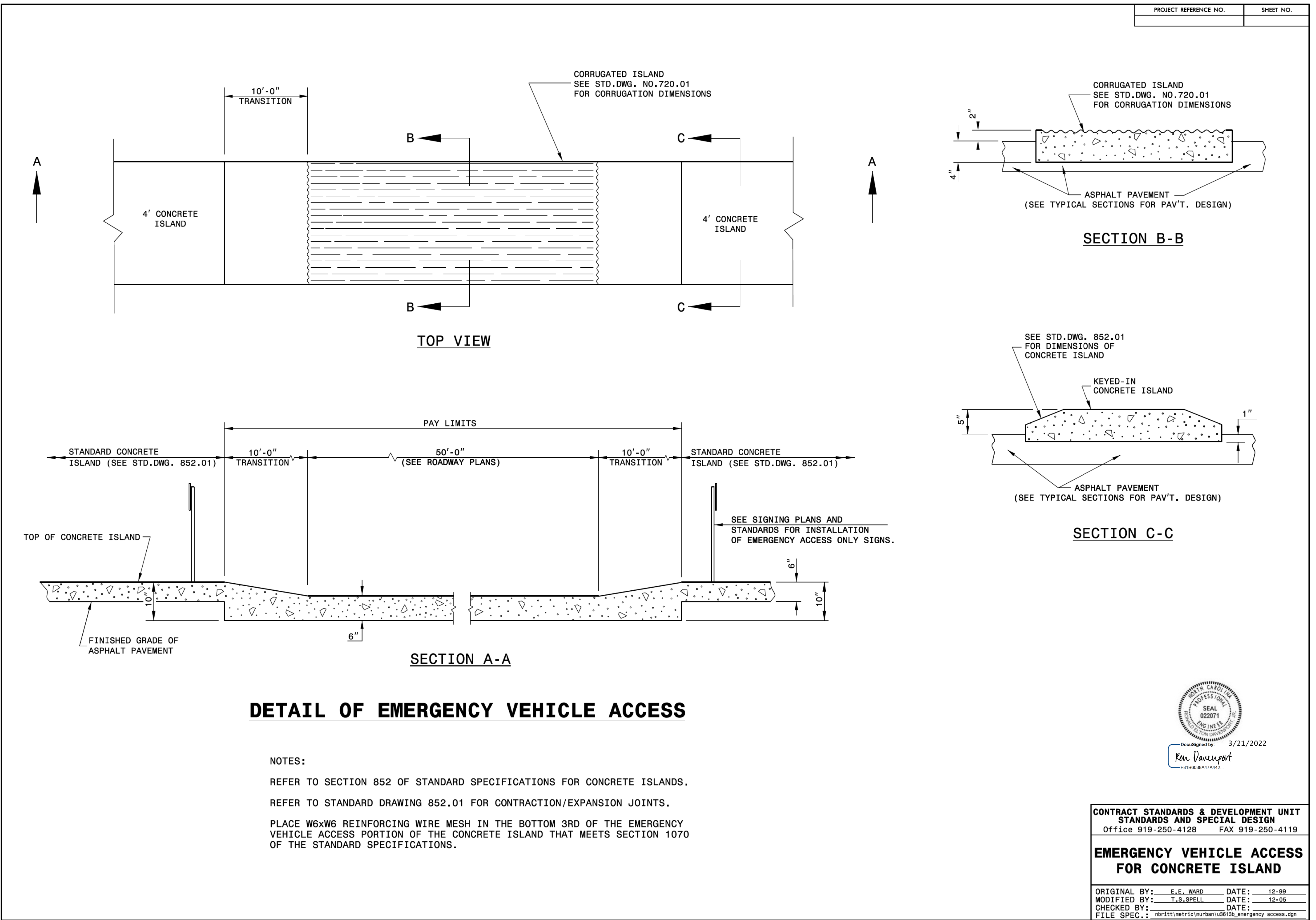
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UNLESS ALL SIGNATURES COMPLETED**

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 AT CSD-252595

2/1/2009 4:45:45 PM
 2B4.dgn
 RPEASE

5/14/99

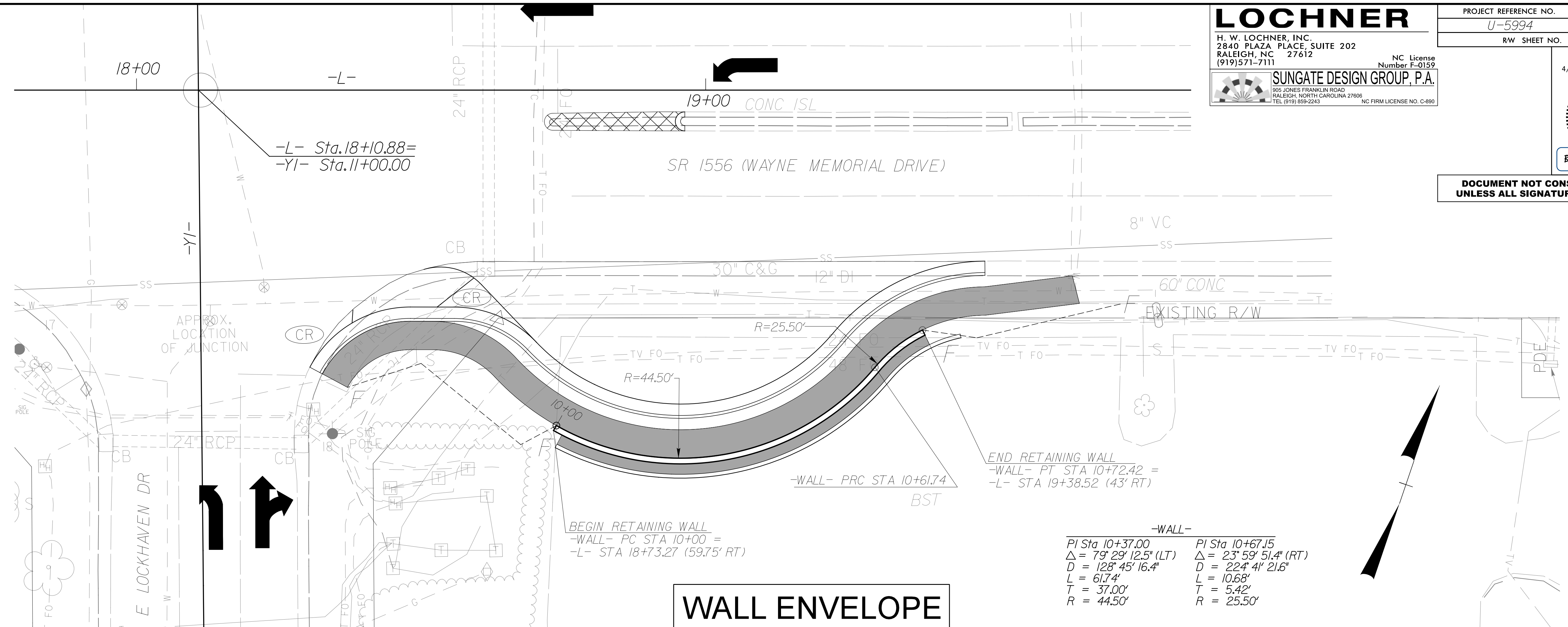
PROJECT REFERENCE NO.	SHEET NO.
U-5994	2B-6
RW SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CONTRACT STANDARDS & DEVELOPMENT UNIT STANDARDS AND SPECIAL DESIGN	
Office 919-250-4128	FAX 919-250-4119
EMERGENCY VEHICLE ACCESS FOR CONCRETE ISLAND	
ORIGINAL BY: E.E. WARD	DATE: 12-99
MODIFIED BY: T.S. SPELL	DATE: 12-05
CHECKED BY:	DATE:
FILE SPEC.: nbrittmetric\urban\us8130_emergency_access.dgn	

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RKN/CHT

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



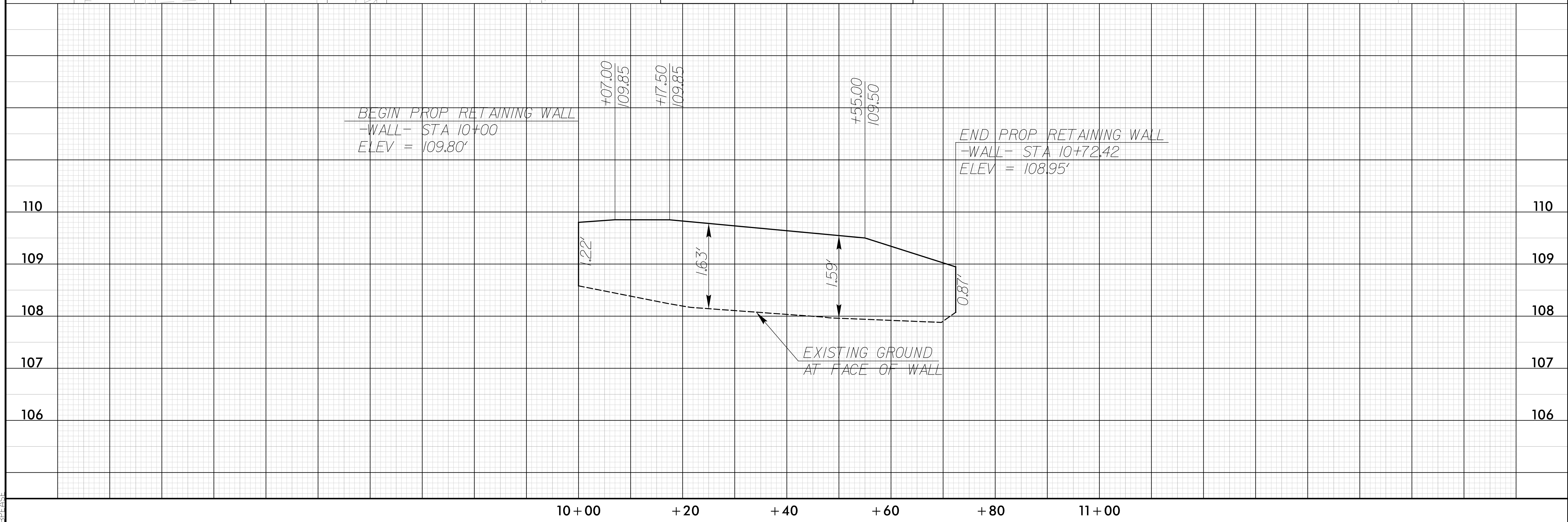
WALL ENVELOPE

-WALL-

PI Sta 10+37.00	PI Sta 10+67.15
$\Delta = 79^\circ 29' 12.5''$ (LT)	$\Delta = 23^\circ 59' 51.4''$ (RT)
$D = 128^\circ 45' 16.4''$	$D = 224^\circ 41' 21.6''$
$L = 617.4'$	$L = 10.68'$
$T = 37.00'$	$T = 5.42'$
$R = 44.50'$	$R = 25.50'$

BEGIN RETAINING WALL
 -WALL- PC STA 10+00 =
 -L- STA 18+73.27 (59.75' RT)

END RETAINING WALL
 -WALL- PT STA 10+72.42 =
 -L- STA 19+38.52 (43' RT)



REVISIONS

8.17.19
 2/14/2019
 165564.dwg det. 02N.dgn
 RELEASE

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +15%	BORROW	WASTE
15+90 -L-	17+90 -L-	181	1	-	180
18+40 -L-	19+60 -L-	56	30	-	26
23+60 -L-	23+90 -L-	8	-	-	8
30+70 -L-	31+10 -L-	15	-	-	15
SUBTOTALS:		260	31	-	228
GRAND TOTALS:		260	31	-	228
SAY:		260	35	-	230

**EXISTING ASPHALT
 PAVEMENT REMOVAL SUMMARY**

SURVEY LINE	STATION	STATION	LOCATION	YD ²
-L-	16+89	17+10	LT	16.0
TOTAL:				16.0
SAY:				20.0

**SUMMARY OF 1½" GALVANIZED STEEL
 PIPE HANDRAIL
 (MOUNTED ON RETAINING WALL)**

SURVEY LINE	STATION	STATION	LOCATION	LENGTH
-L-	18+74	19+38	RT	72.4'
TOTAL:				72.4'
SAY:				73'

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."

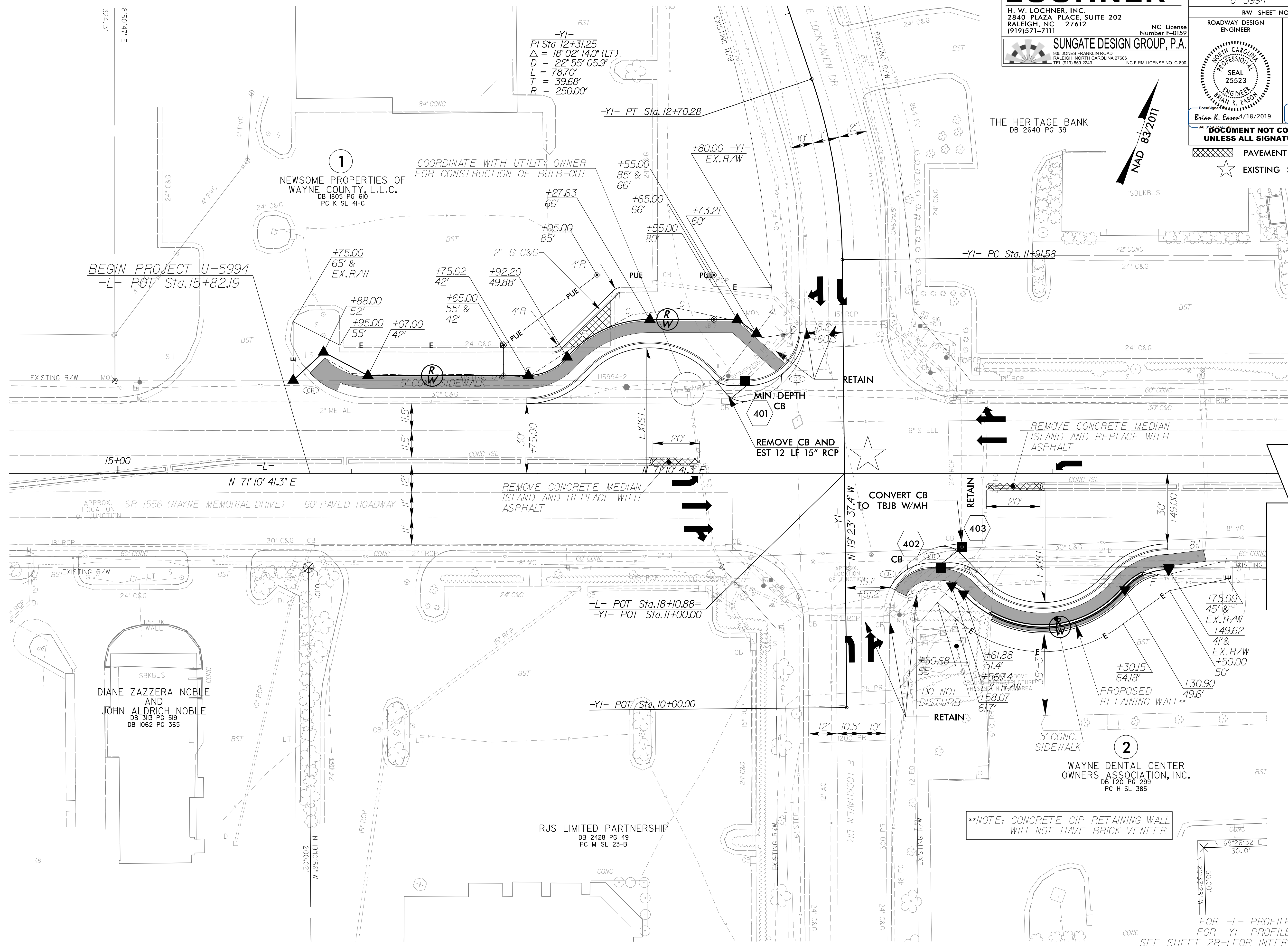
Earthwork quantities are calculated by Lochner. These Earthwork quantities are based in part on subsurface data provided by the Geotechnical Unit.

5/14/19

LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 571-7111

NC License Number F-0159
SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL: (919) 858-2262
 NC FIRM LICENSE NO. C-880

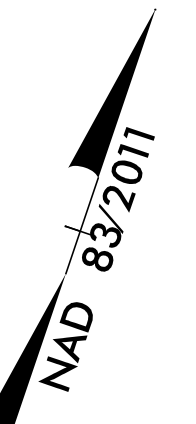
PROJECT REFERENCE NO. U-5994	SHEET NO. 4
ROADWAY DESIGN ENGINEER BRIAN K. EASON	HYDRAULICS ENGINEER JULIAN D. HAN
SEAL 25523 BRIAN K. EASON 4/18/2019	SEAL 26971 JULIAN D. HAN 4/18/2019



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PAVEMENT REMOVAL (hatched pattern)

EXISTING SIGNAL (star symbol)



BEGIN PROJECT U-5994
 -L- POT Sta. 15+82.19

COORDINATE WITH UTILITY OWNER
 FOR CONSTRUCTION OF BULB-OUT.

-YI-
 PI Sta. 12+31.25
 $\Delta = 18^{\circ} 02' 14.0''$ (LT)
 $D = 22^{\circ} 55' 05.9''$
 $L = 78.70'$
 $T = 39.68'$
 $R = 250.00'$

REMOVE CB AND
 EST 12 LF 15" RCP

REMOVE CONCRETE MEDIAN
 ISLAND AND REPLACE WITH
 ASPHALT

REMOVE CONCRETE MEDIAN
 ISLAND AND REPLACE WITH
 ASPHALT

CONVERT CB
 TO TBJB W/MH

PROPOSED
 RETAINING WALL**

**NOTE: CONCRETE CIP RETAINING WALL
 WILL NOT HAVE BRICK VENEER

WAYNE DENTAL CENTER
 OWNERS ASSOCIATION, INC.
 DB 1120 PG 299
 PC H SL 385

DIANE ZAZZERA NOBLE
 AND
 JOHN ALDRICH NOBLE
 DB 313 PG 519
 DB 1062 PG 365

RJS LIMITED PARTNERSHIP
 DB 2428 PG 49
 PC M SL 23-B

FOR -L- PROFILE, SEE SHEET 6
 FOR -YI- PROFILE, SEE SHEET 7
 SEE SHEET 2B-1 FOR INTERSECTION DETAIL
 SEE SHEET 2N-1 FOR RETAINING WALL ENVELOPE

4/17/2019
 4:59:04
 rdy_psh_04.dgn
 BPE:GSP

5/14/19

LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

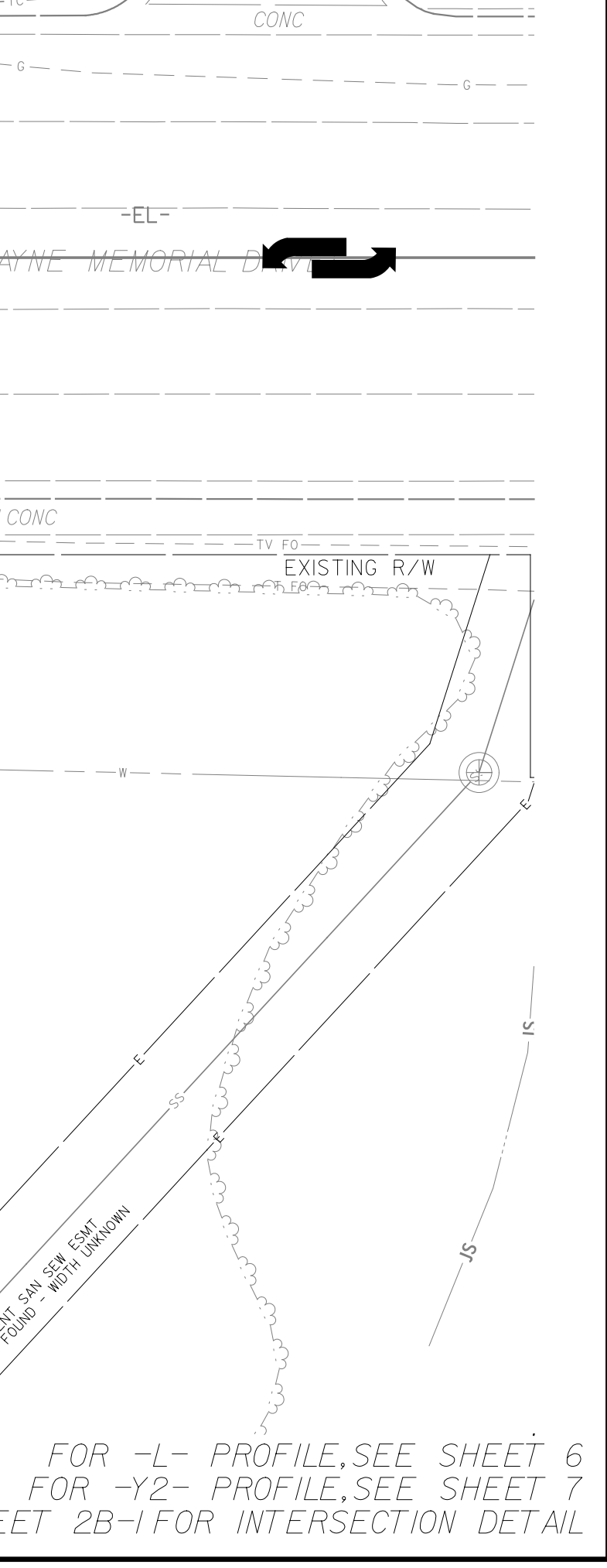
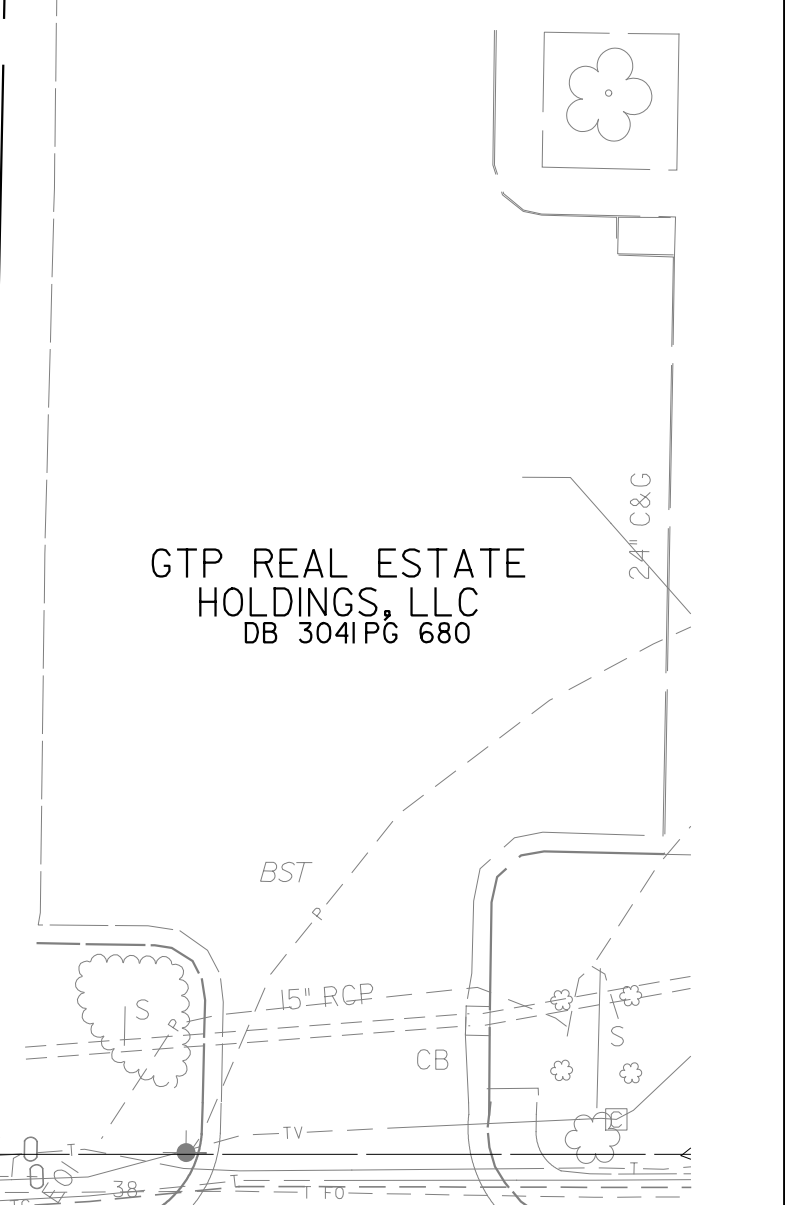
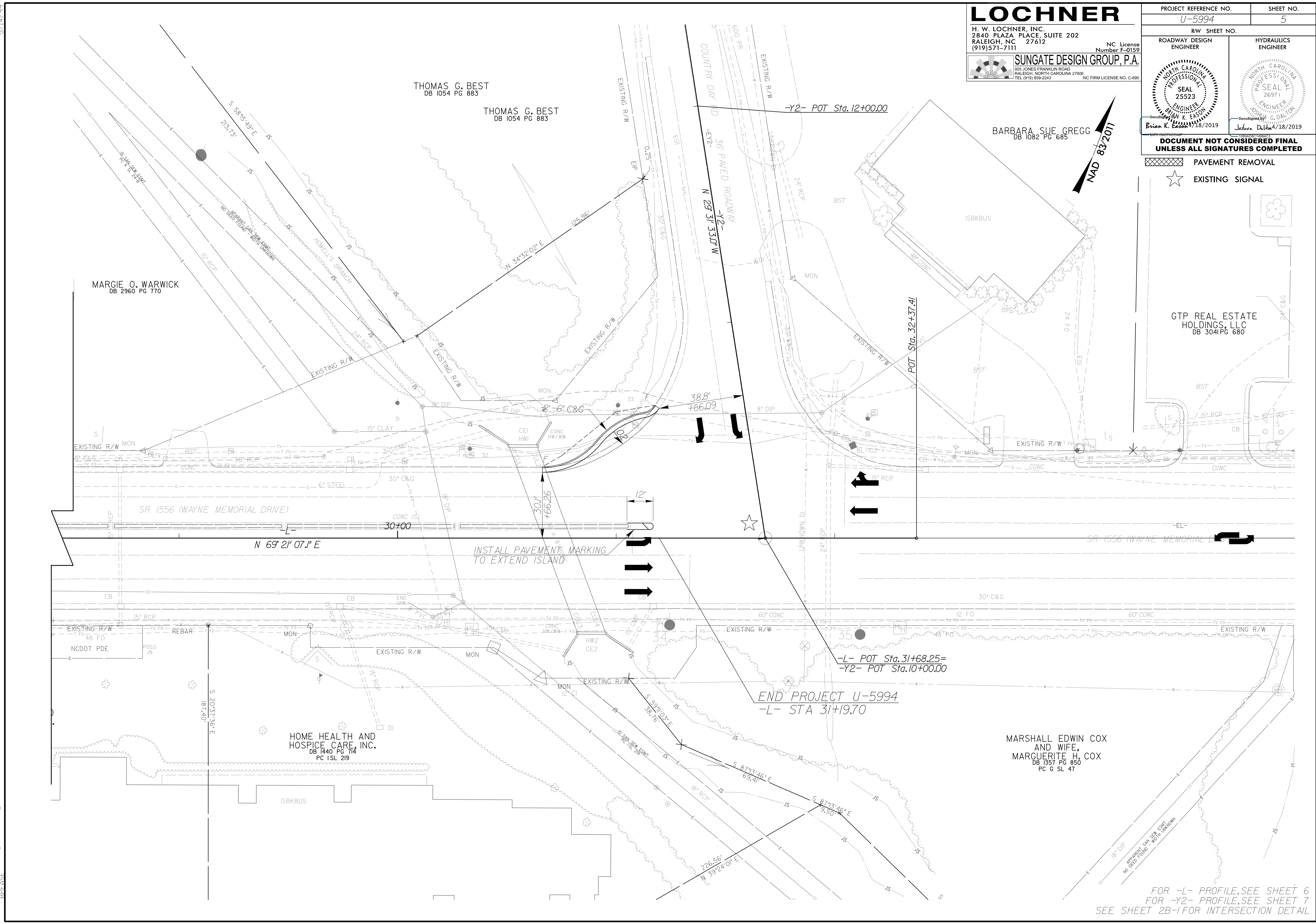
NC License
 Number F-0159

SUNGATE DESIGN GROUP, P.A.
 905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL: (919) 858-2262
 NC FIRM LICENSE NO. C-880

PROJECT REFERENCE NO. U-5994	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

- PAVEMENT REMOVAL
- EXISTING SIGNAL



FOR -L- PROFILE, SEE SHEET 6
 FOR -Y2- PROFILE, SEE SHEET 7
 SEE SHEET 2B-1 FOR INTERSECTION DETAIL

2/14/2019 10:59:14 AM rdy_psh_05.dgn

5/28/99

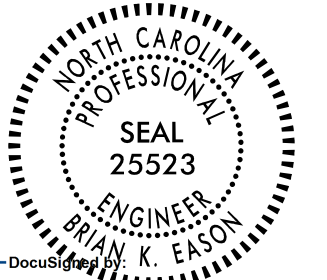
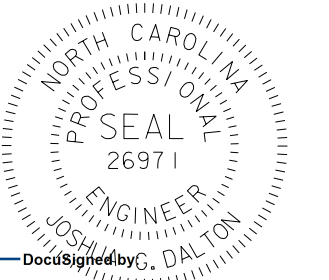
BM #1
ELEV. = 117.73
N 601,125 E 2,308,094
S 81°27'27"W
240.50' FROM U5994-1
BOLT IN SE CORNER
OF LP BASE

—L—
WAYNE MEMORIAL DR

LOCHNER

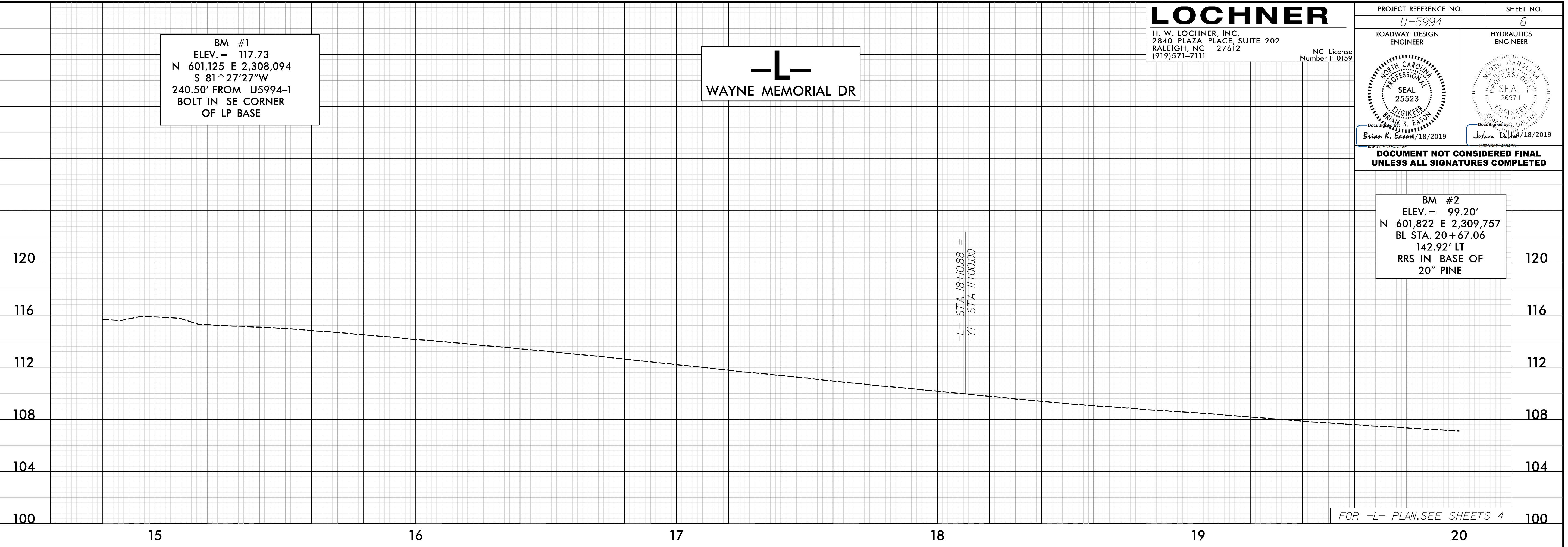
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111

NC License
Number F-0159

PROJECT REFERENCE NO. U-5994	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
Brian K. Eason/18/2019	Joshua D. Holt/18/2019

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

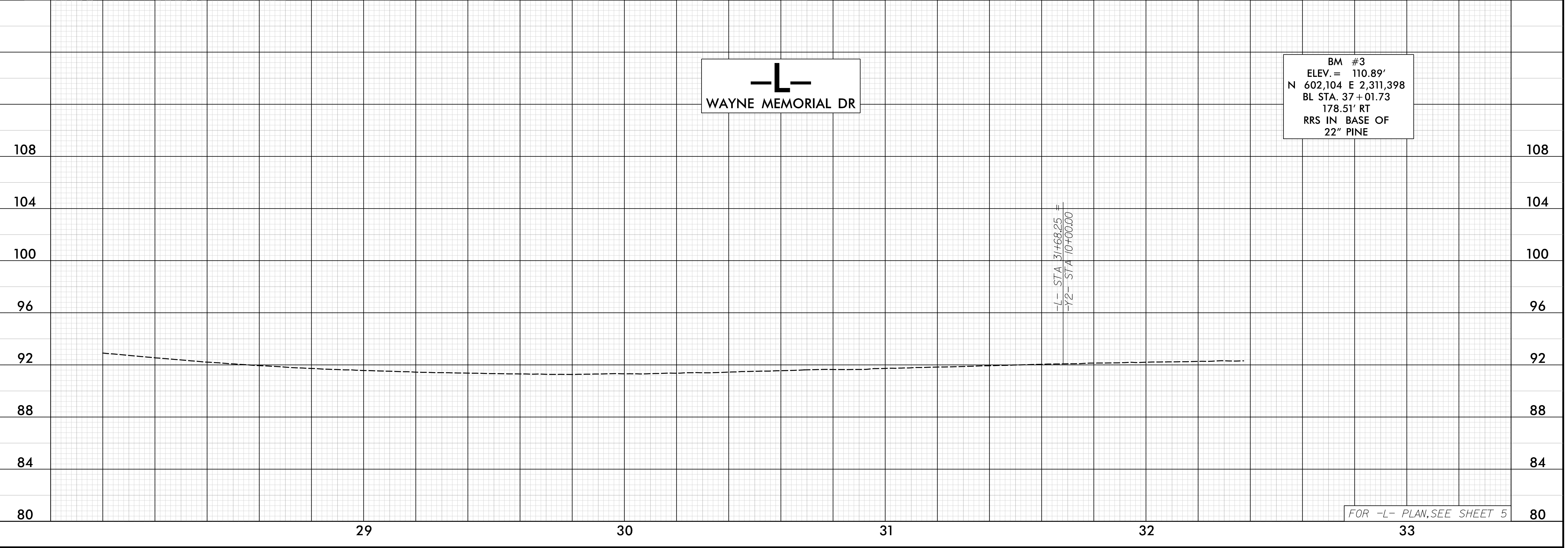
BM #2
ELEV. = 99.20'
N 601,822 E 2,309,757
BL STA. 20+67.06
142.92' LT
RRS IN BASE OF
20" PINE



FOR -L- PLAN, SEE SHEETS 4

—L—
WAYNE MEMORIAL DR

BM #3
ELEV. = 110.89'
N 602,104 E 2,311,398
BL STA. 37+01.73
178.51' RT
RRS IN BASE OF
22" PINE



FOR -L- PLAN, SEE SHEET 5

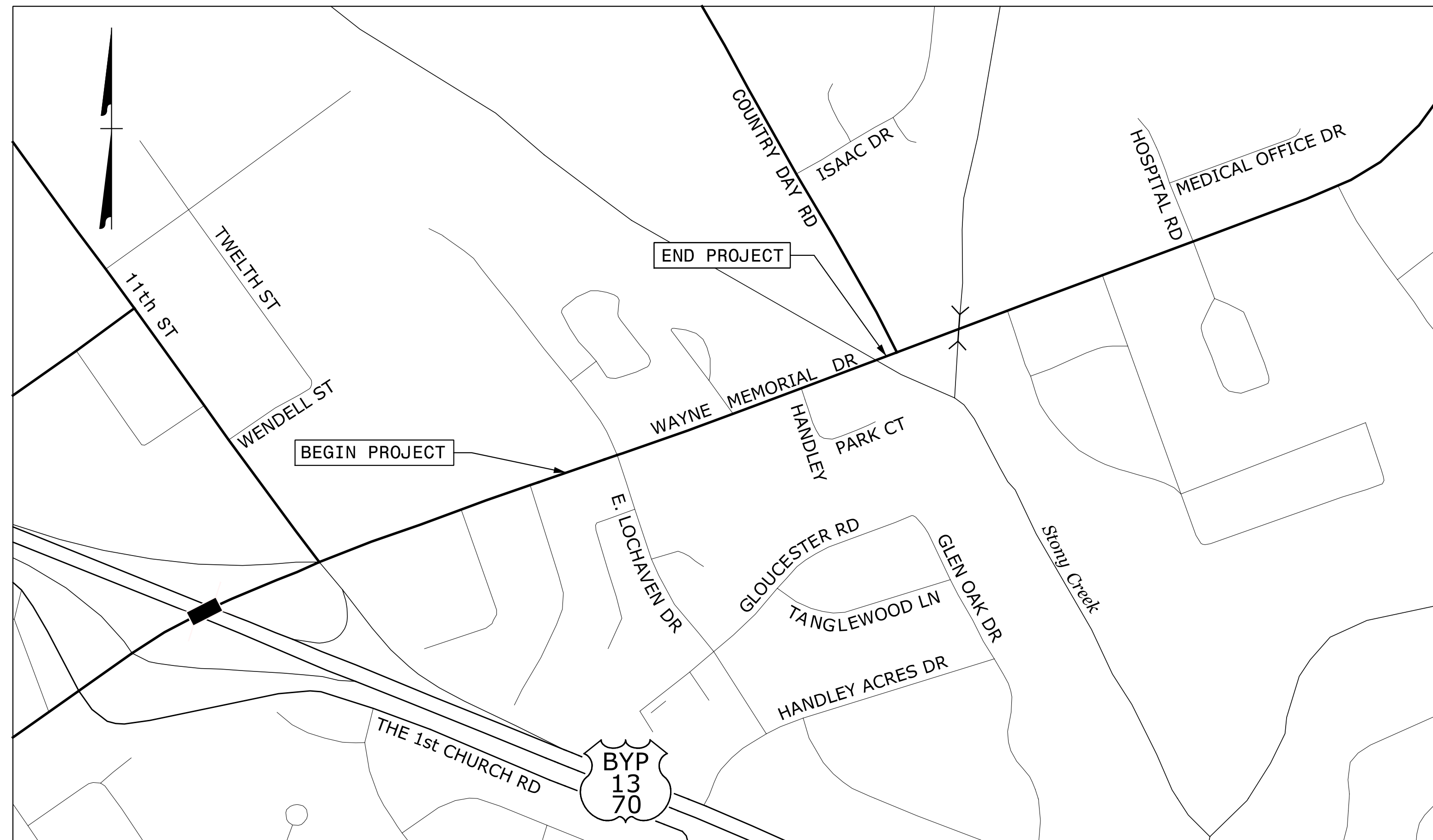
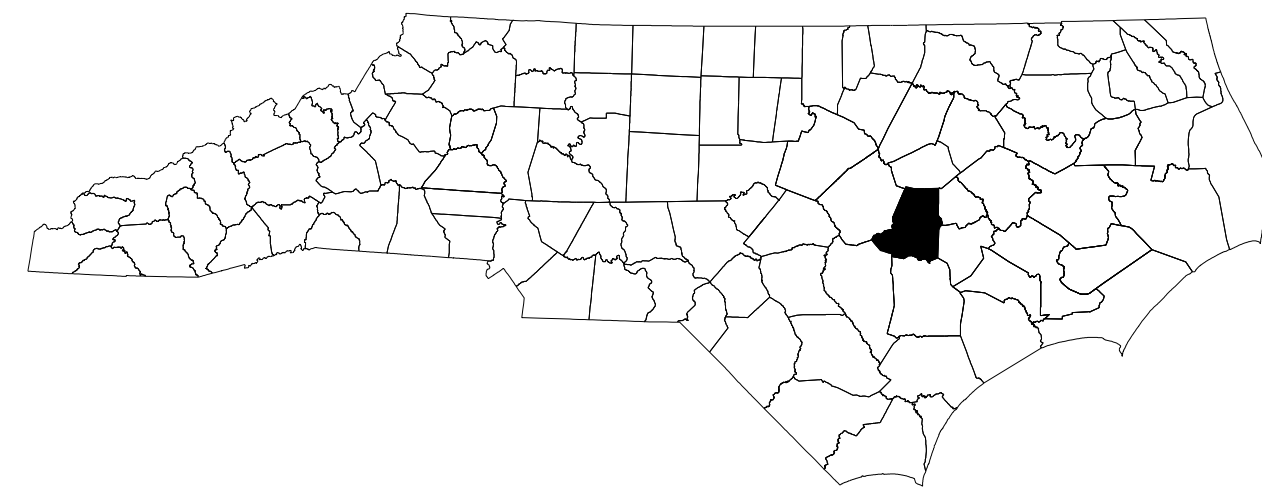
1/23/2019
155420.dwg
RELEASE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAYNE COUNTY

LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT E. LOCKHAVEN DRIVE AND COUNTRY DAY ROAD



VICINITY MAP

INDEX OF SHEETS

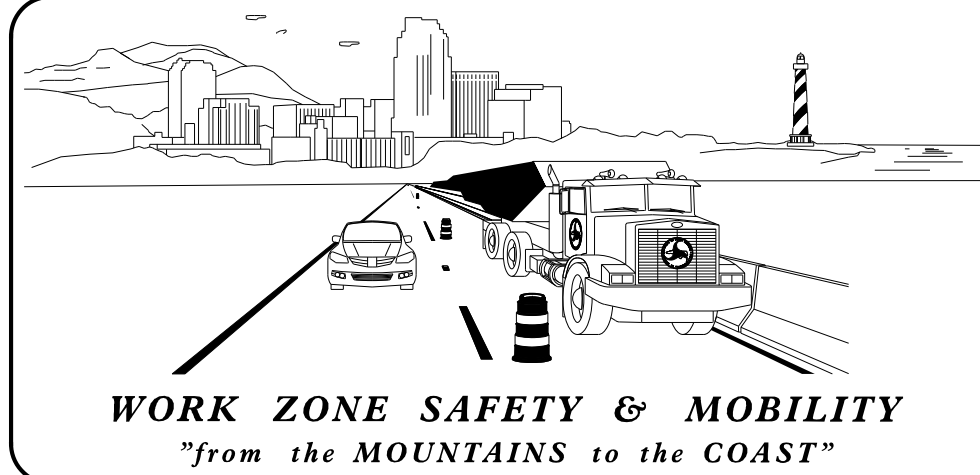
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3 THRU TMP-7	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-8 THRU TMP-10	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-11 THRU TMP-13	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL

SHEET NO.
TMP-1

U-5994

TIP PROJECT:

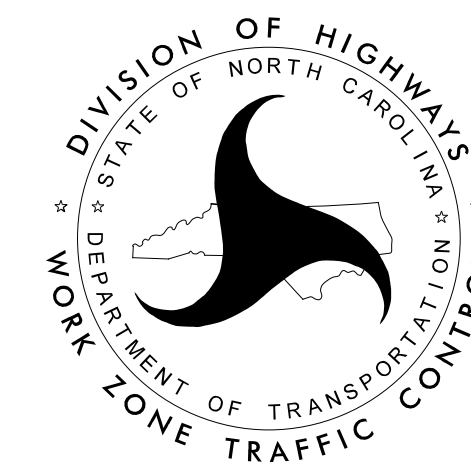
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL

1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

JOSEPH E. HUMMER	STATE TRAFFIC MANAGEMENT ENGINEER
DON A. PARKER, P.E.	TRAFFIC CONTROL PROJECT ENGINEER
MATT SPRINGER, PE	TRAFFIC CONTROL PROJECT DESIGN ENGINEER
SPENCER B. JENNINGS	TRAFFIC CONTROL DESIGN ENGINEER



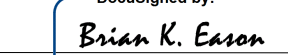
LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159

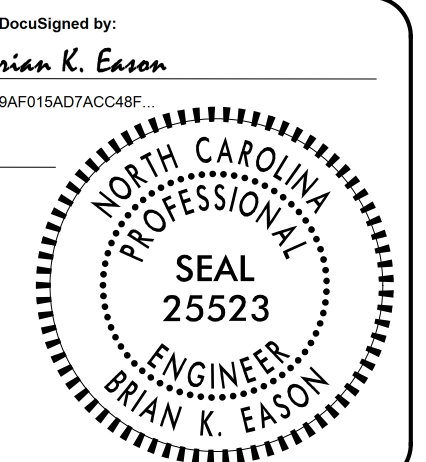
BRIAN EASON, PE
PROJECT ENGINEER

RODNEY KNIGHT
TRANSPORTATION DESIGNER

APPROVED: 

DATE: 2/28/2022

SEAL





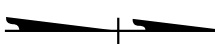
ROADWAY STANDARD DRAWINGS

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

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION

LEGEND

GENERAL

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

 WORK AREA

 REMOVAL


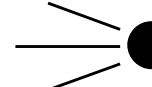

SIGNALS

 EXISTING

TEMPORARY PAVEMENT MARKINGS

 WHITE SOLID LANE LINE (4")

TRAFFIC CONTROL DEVICES

-  DRUM
-  FLASHING ARROW BOARD
-  TRUCK MOUNTED ATTENUATOR (TMA)


TEMPORARY SIGNING

 PORTABLE SIGN

02/25/22
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RKNIGHT

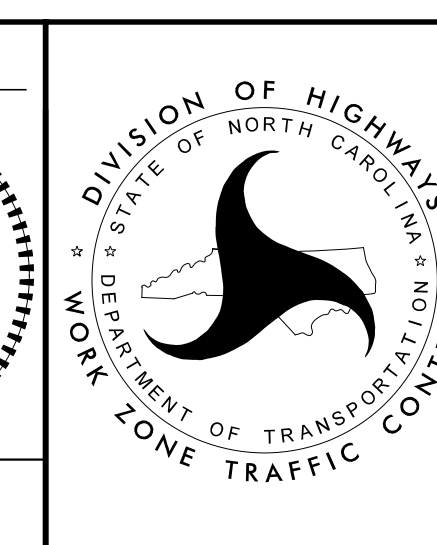
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H. W. LOCHNER, INC.
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RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159

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ROADWAY STANDARD
DRAWINGS & LEGEND

MANAGEMENT STRATEGIES

CONSTRUCTION

CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND DRIVEWAYS AT ALL TIMES FOR ALL PHASES WITHIN THE PROJECT LIMITS AND COORDINATE AS NECESSARY WITH PROPERTY OWNERS.

CONSTRUCT LEFT TURN BULB AND SIDEWALK AT THE NORTHWEST CORNER OF WEST LOHAVEN DRIVE AND WAYNE MEMORIAL DRIVE INTERSECTION. REMOVE PAVEMENT AND CURB AND GUTTER IN ADJACENT PARKING LOT AND CONSTRUCT CURB AND GUTTER.

CONSTRUCT LEFT TURN BULB, RETAINING WALL AND SIDEWALK AT THE SOUTHEAST CORNER OF EAST LOHAVEN ROAD AND WAYNE MEMORIAL DRIVE.

CONSTRUCT LEFT TURN BULB AT THE NORTHWEST CORNER OF COUNTRY DAY RD AND WAYNE MEMORIAL DRIVE.

REMOVE 22' AND 25' OF CONCRETE ISLANDS THE INTERSECTION OF WAYNE MEMORIAL DRIVE AND EAST AND WEST LOHAVEN DRIVE AND RECONSTRUCT THE RADIUS OF THE CONCRETE ISLANDS.

GENERAL NOTES / LOCAL 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 UNDESIRE 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
ALL ROADS	MONDAY THRU FRIDAY FROM 7:00 AM TO 9:00 AM & FROM 4:00 PM TO 6:00 PM

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

ROAD NAME

ALL ROADS

HOLIDAY

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

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

C) DO NOT 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

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.
- K) 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.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- M) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT. IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- N) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

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

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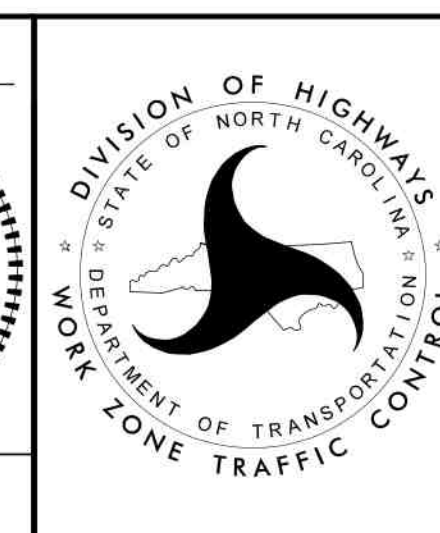
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Number F-0159

DocuSigned by:
Brian K. Eason
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APPROVED: _____
DATE: 4/28/2022

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MANAGEMENT
STRATEGIES &
GENERAL / LOCAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-2

PHASING NOTES

PHASE I

STEP 1

INSTALL ALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO RDWY. STD. NO. 1101.01, SHEET 2 OF 3 FOR WESTBOUND LANES.

STEP 2

INSTALL ADA COMPLIANT BARRICADES AS SHOWN ON TMP-3 TO CLOSE AND DETOUR THE SIDEWALK AND PROVIDE PEDESTRIAN TRANSPORT SERVICE FOR PEDESTRIAN TRAFFIC TO/FROM THE EAST ON E. LOCKHAVEN DR AND WAYNE MEMORIAL DR. ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.

STEP 3

INSTALL TEMPORARY LANE CLOSURE ACCORDING TO RDWY. STD. NO. 1101.02, SHEET 3 OF 14 ALONG WAYNE MEMORIAL DR AND AS SHOWN ON SHEETS TMP-4 THRU TMP-9 AND REMOVE PAVEMENT WHERE INDICATED, CONSTRUCT U-TURN BULBS, CURB AND GUTTER, DRAINAGE ITEMS AND SIDEWALK SHOWN ON SHEETS TMP-4 AND TMP-8 AS FOLLOWS:

FROM	TO
-L- STA. 16+74± LT	-L- STA. 17+94± LT
-L- STA. 30+66± LT	-L- STA. 31+20± LT

STEP 4

REMOVE TEMPORARY LANE CLOSURE AND OPEN TRAFFIC OPERATIONS TO ORIGINAL CONDITION.

PHASE II

STEP 1

INSTALL ALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO RDWY. STD. NO. 1101.01, SHEET 2 OF 3 FOR EAST BOUND LANES.

INSTALL TEMPORARY LANE CLOSURE ACCORDING TO RDWY. STD. NO. 1101.02, SHEET 3 OF 14 ALONG WAYNE MEMORIAL DR AND AS SHOWN ON SHEETS TMP-4 THRU TMP-6. CONSTRUCT U-TURN BULB, RETAINING WALL AND SIDEWALK AS SHOWN ON SHEETS TMP-5 AS FOLLOWS:

FROM	TO
-L- STA. 18+30± RT	-L- STA. 19+66± RT

STEP 2

REMOVE TEMPORARY LANE CLOSURE AND OPEN TRAFFIC OPERATIONS TO ORIGINAL CONDITION.

PHASE III

STEP 1

INSTALL ADA COMPLIANT BARRICADES AS SHOWN ON TMP-9 TO CLOSE AND DETOUR THE SIDEWALK AND PROVIDE PEDESTRIAN TRANSPORT SERVICE FOR PEDESTRIAN TRAFFIC TO/FROM THE WEST ON E. LOCKHAVEN DR AND WAYNE MEMORIAL DR. ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.

STEP 2

INSTALL TEMPORARY LANE CLOSURE ACCORDING TO RDWY. STD. NO. 1101.02, SHEET 3 OF 14, AND AS SHOWN ON TMP-11 THRU TMP-13, REMOVE 22' AND 25' OF EXISTING MEDIAN ISLAND AND REPLACE WITH ASPHALT PAVING AS SHOWN ON TMP-11 AS FOLLOWS:

FROM	TO
-L- STA. 17+27±	-L- STA. 17+49±
-L- STA. 18+71±	-L- STA. 18+96±

STEP 3

CONSTRUCT CONCRETE MOUNTABLE MEDIAN ISLAND AS SHOWN ON TMP-13 AS FOLLOWS:

FROM	TO
-L- STA. 23+56±	-L- STA. 23+91±

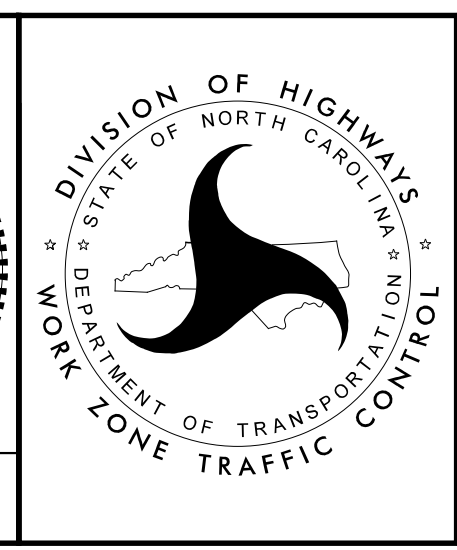
STEP 4

REMOVE TEMPORARY LANE CLOSURE AND OPEN TRAFFIC OPERATIONS TO ORIGINAL CONDITION.

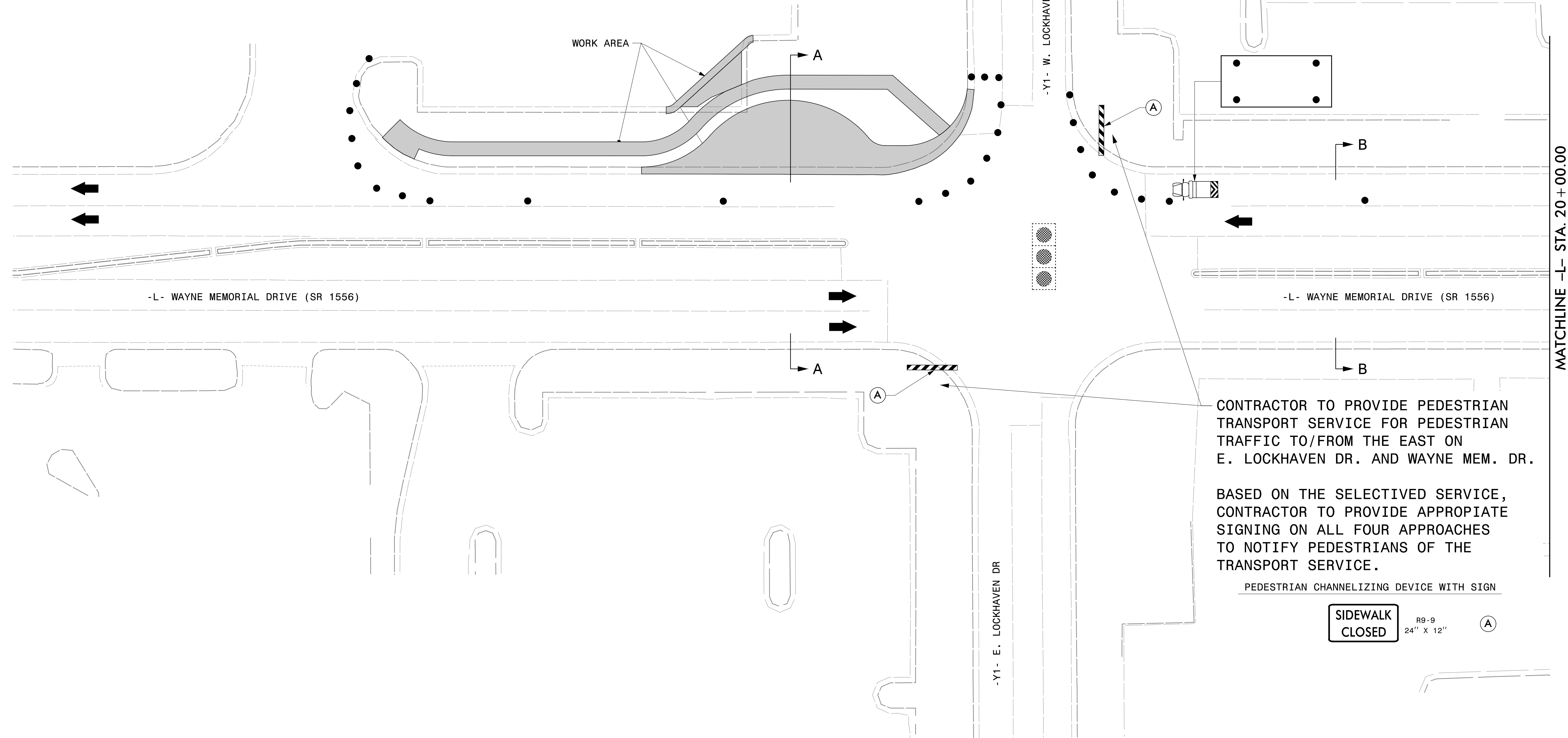
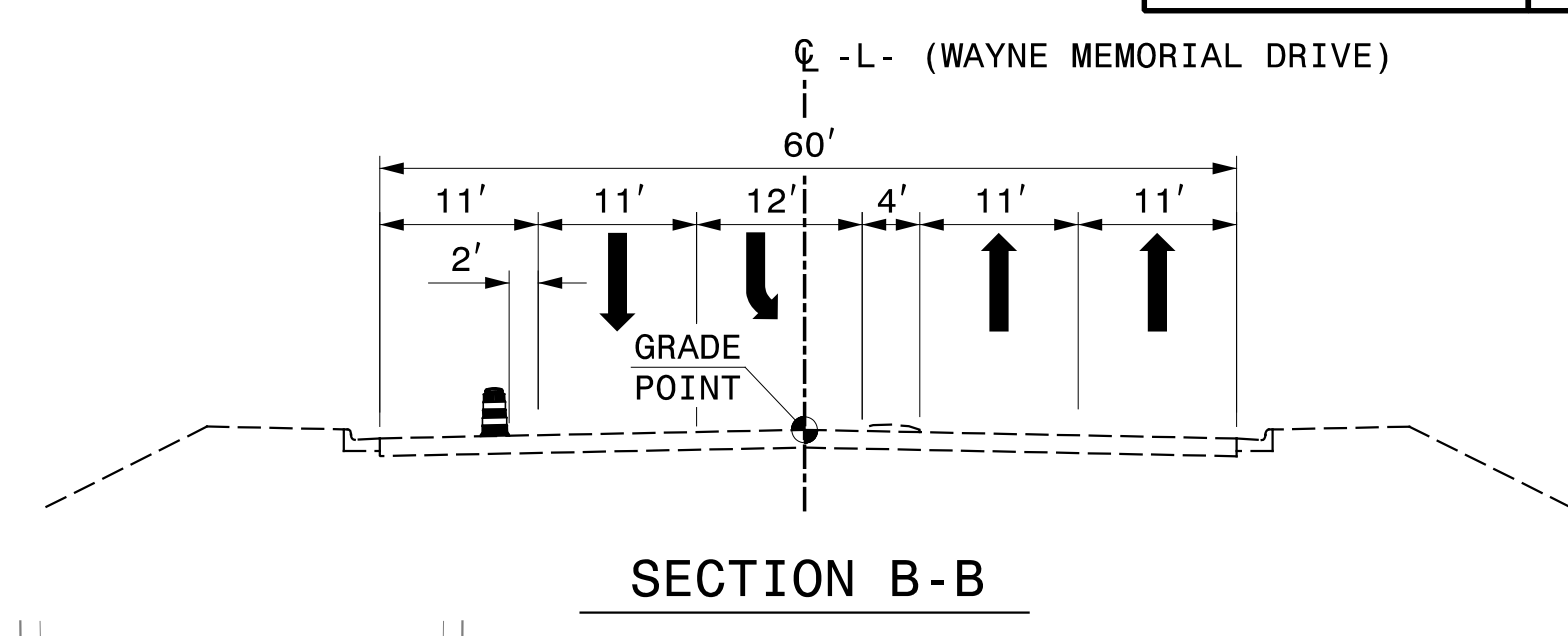
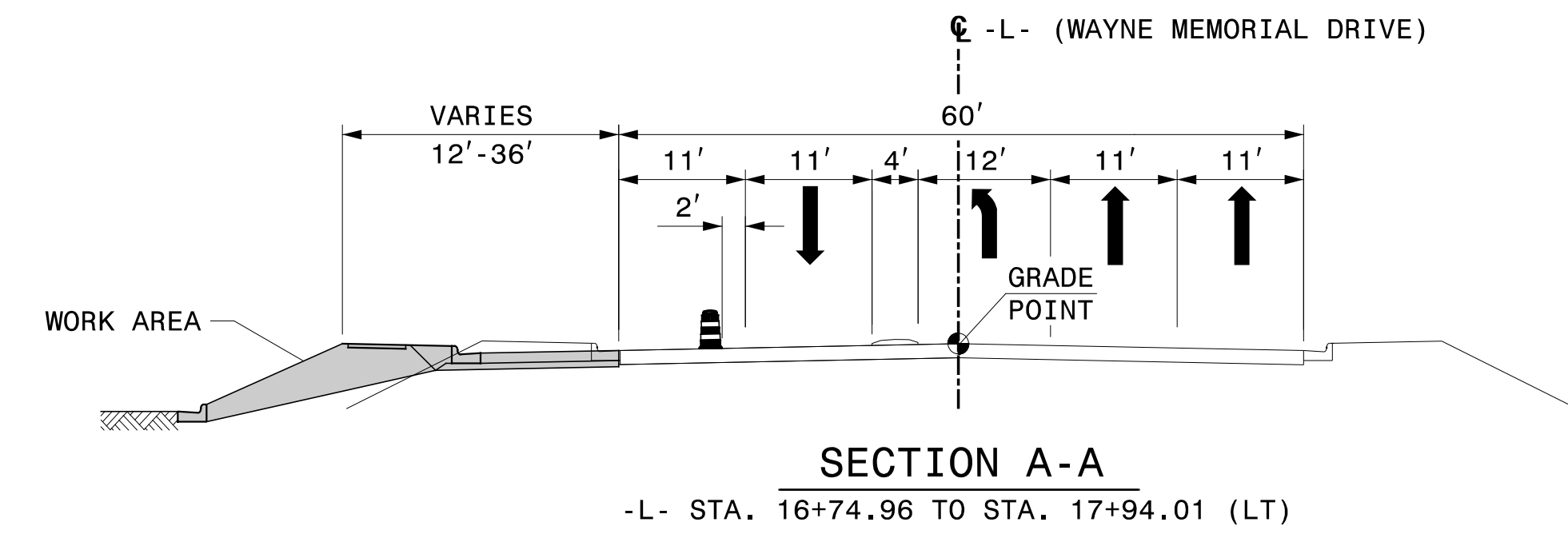
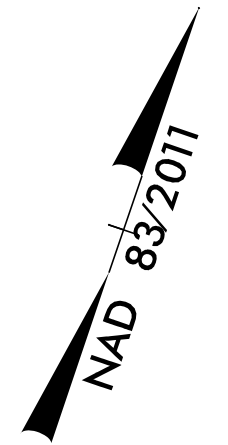
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APPROVED: *Brian K. Eason*
DATE: 4/25/2022
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 25523
BRIAN K. EASON
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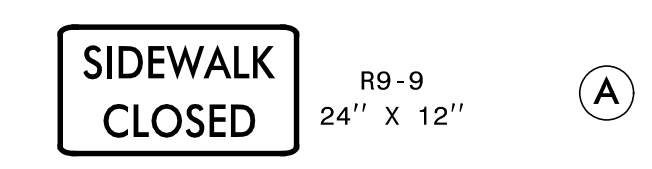
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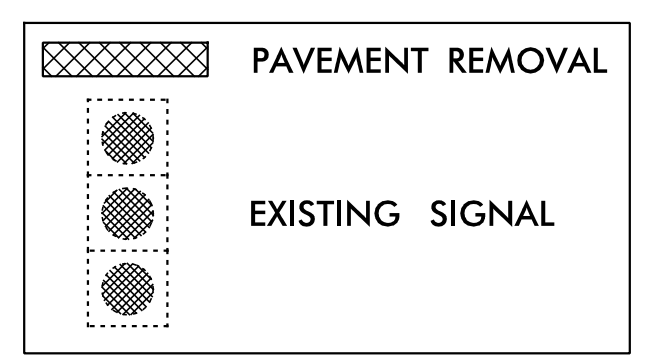
CONTRACTOR TO PROVIDE PEDESTRIAN TRANSPORT SERVICE FOR PEDESTRIAN TRAFFIC TO/FROM THE EAST ON E. LOCKHAVEN DR. AND WAYNE MEM. DR.

BASED ON THE SELECTED SERVICE, CONTRACTOR TO PROVIDE APPROPRIATE SIGNING ON ALL FOUR APPROACHES TO NOTIFY PEDESTRIANS OF THE TRANSPORT SERVICE.

PEDESTRIAN CHANNELIZING DEVICE WITH SIGN

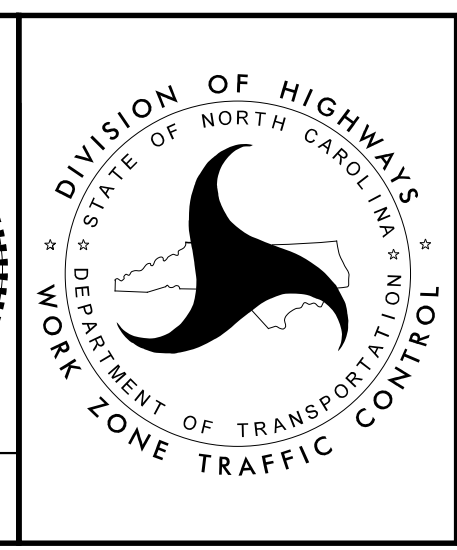


MATCHLINE -L- STA. 20+00.00
SEE SHEET TMP-6



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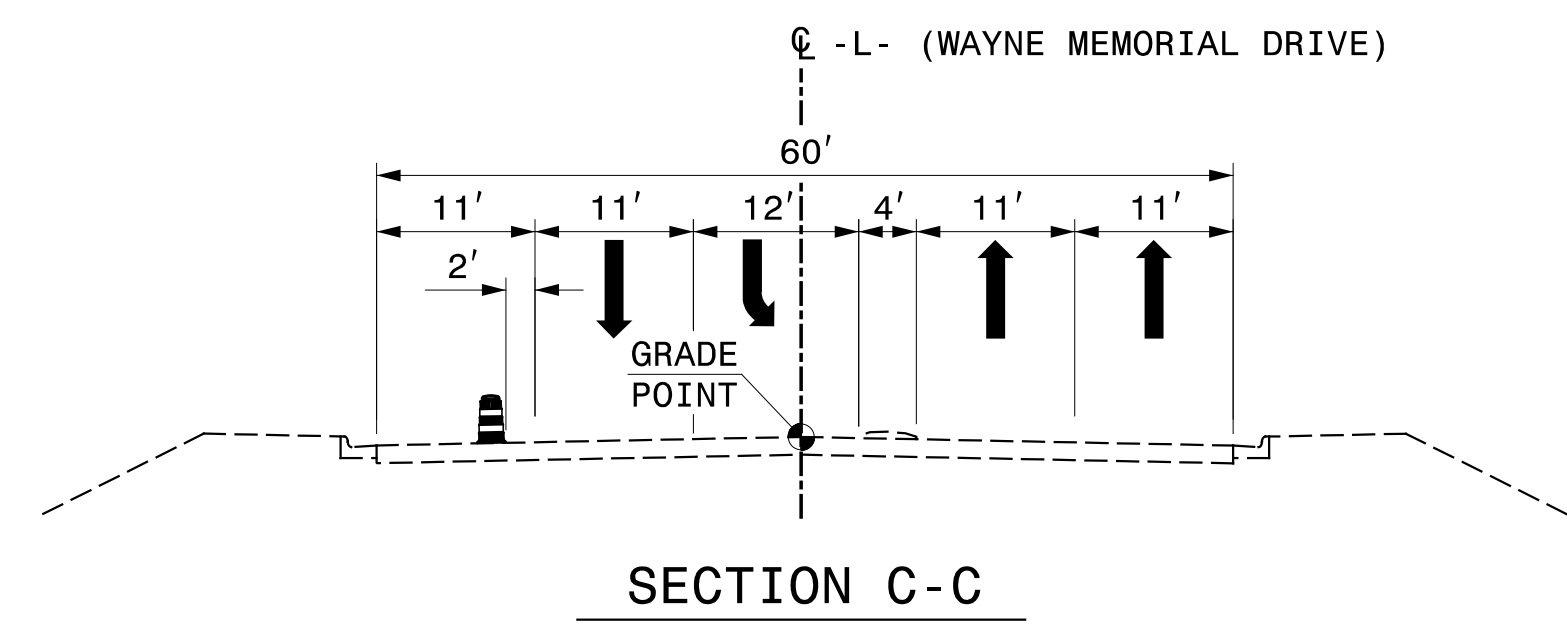
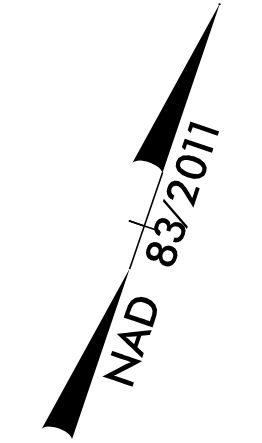
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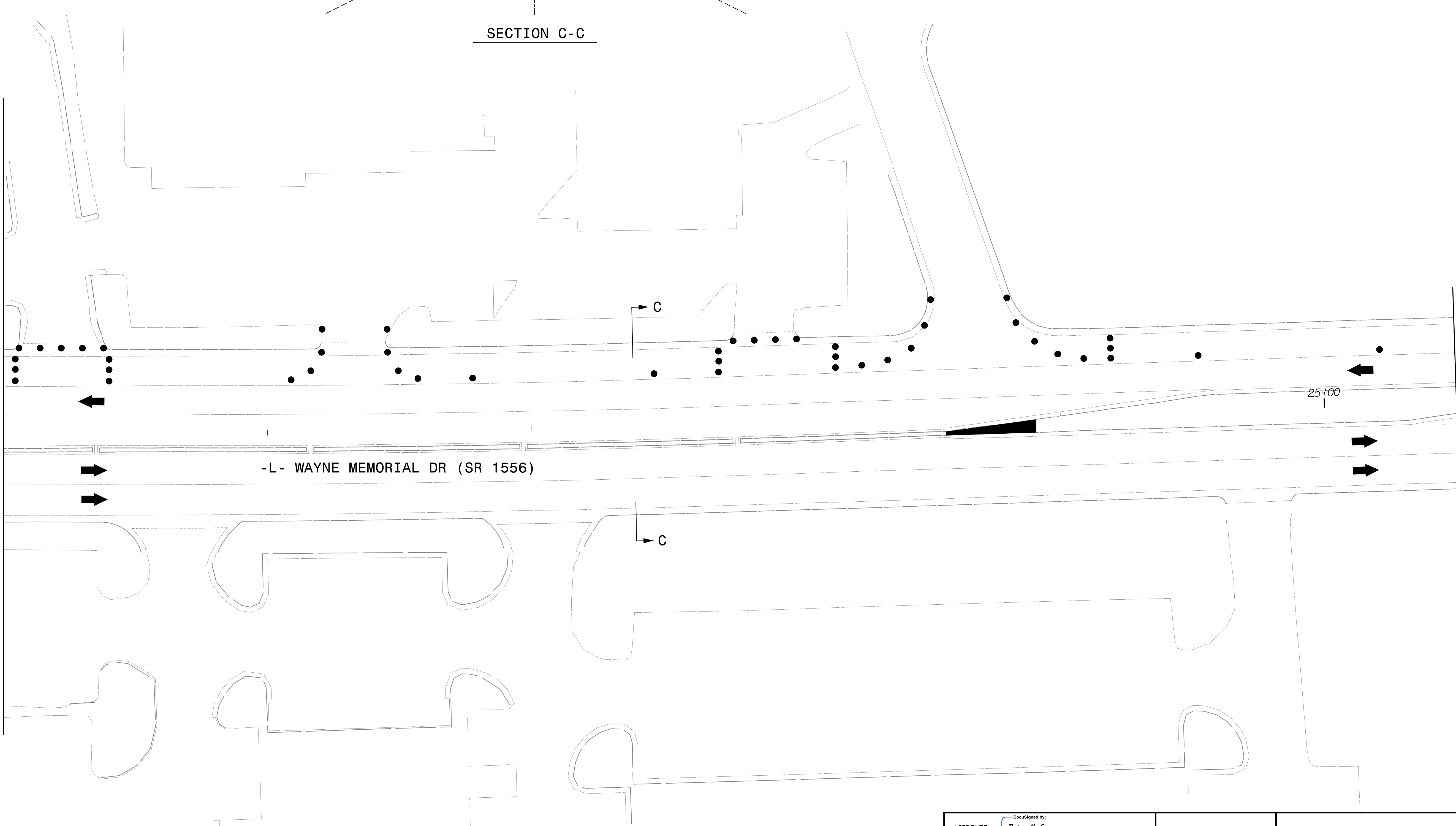
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RKNIGHT

PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-4



MATCHLINE -L- STA. 20+00.00
SEE SHEET TMP-3



MATCHLINE -L- STA. 25+50.00
SEE SHEET TMP-5

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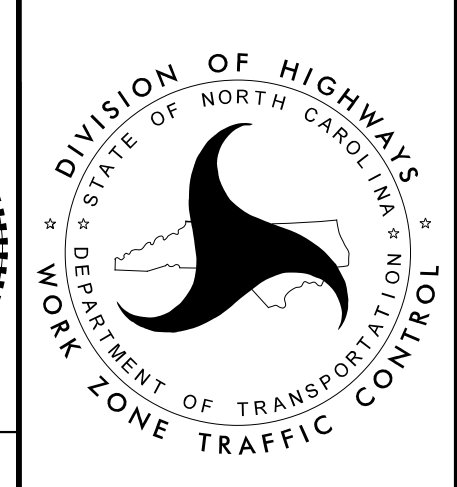
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Brian K. Eason
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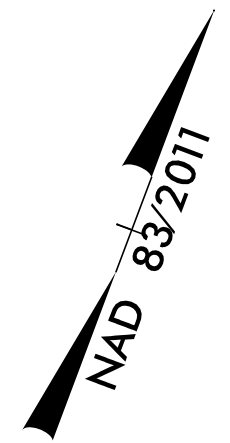
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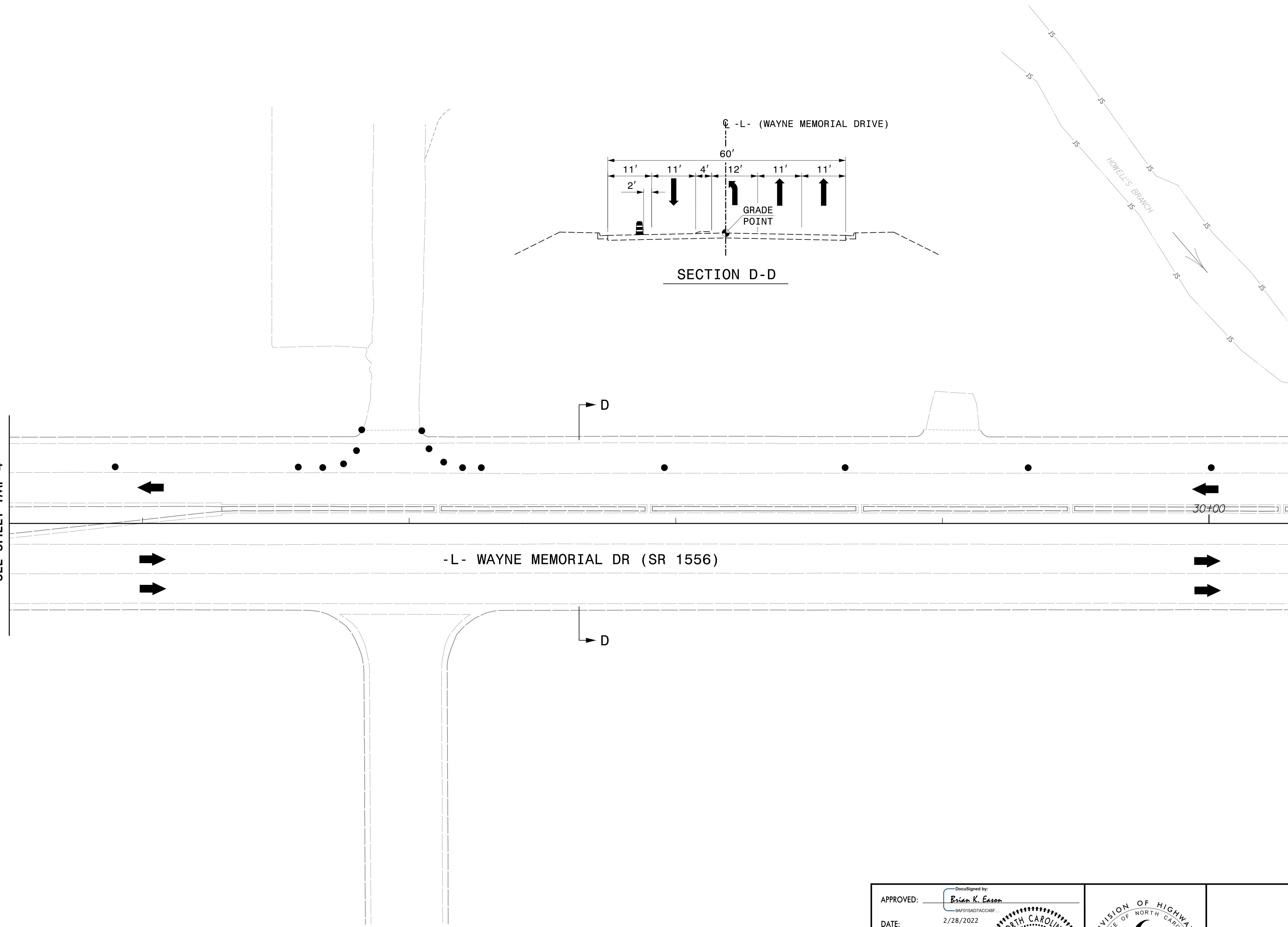


PHASE I DETAILS

PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-5



MATCHLINE -L- STA. 25 + 50.00
SEE SHEET TMP-4

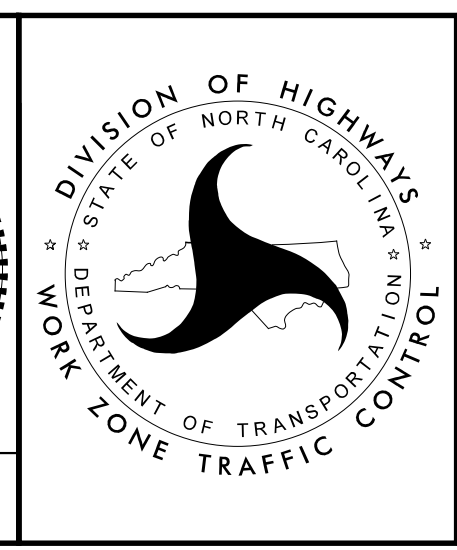


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SEE SHEET TMP-6

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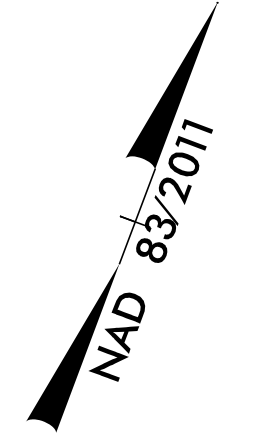
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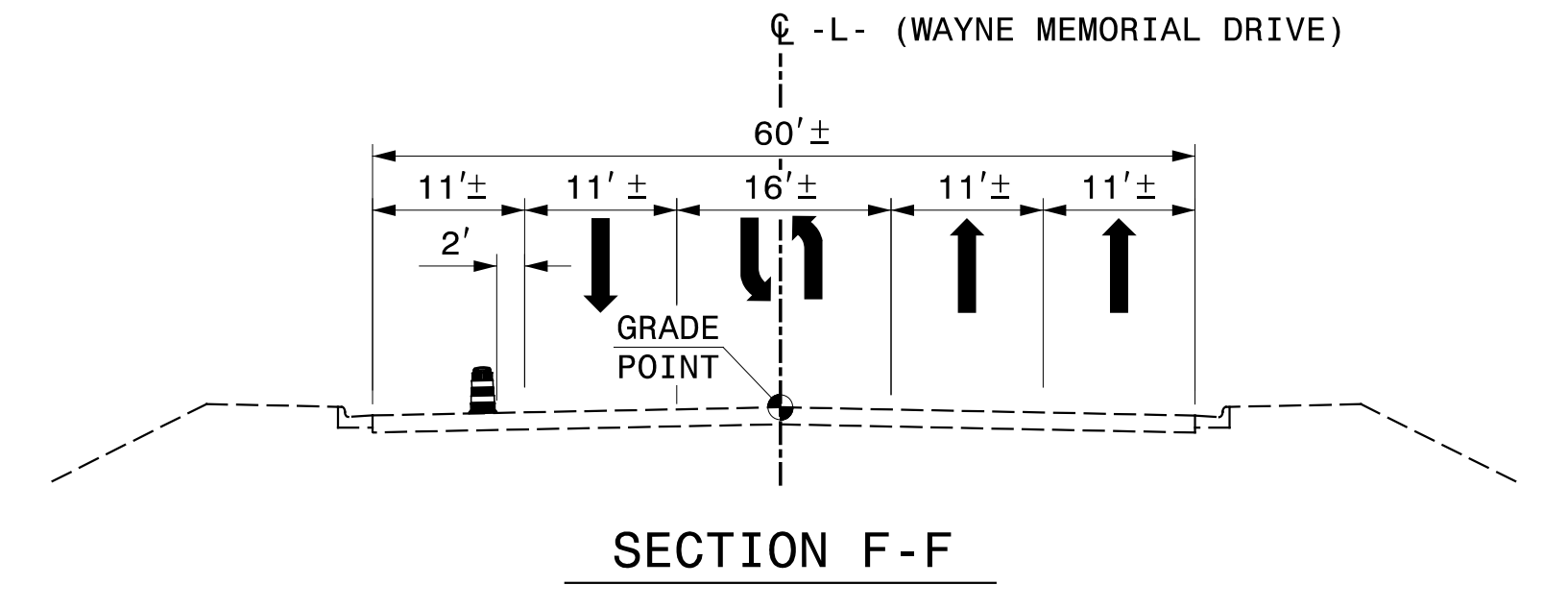
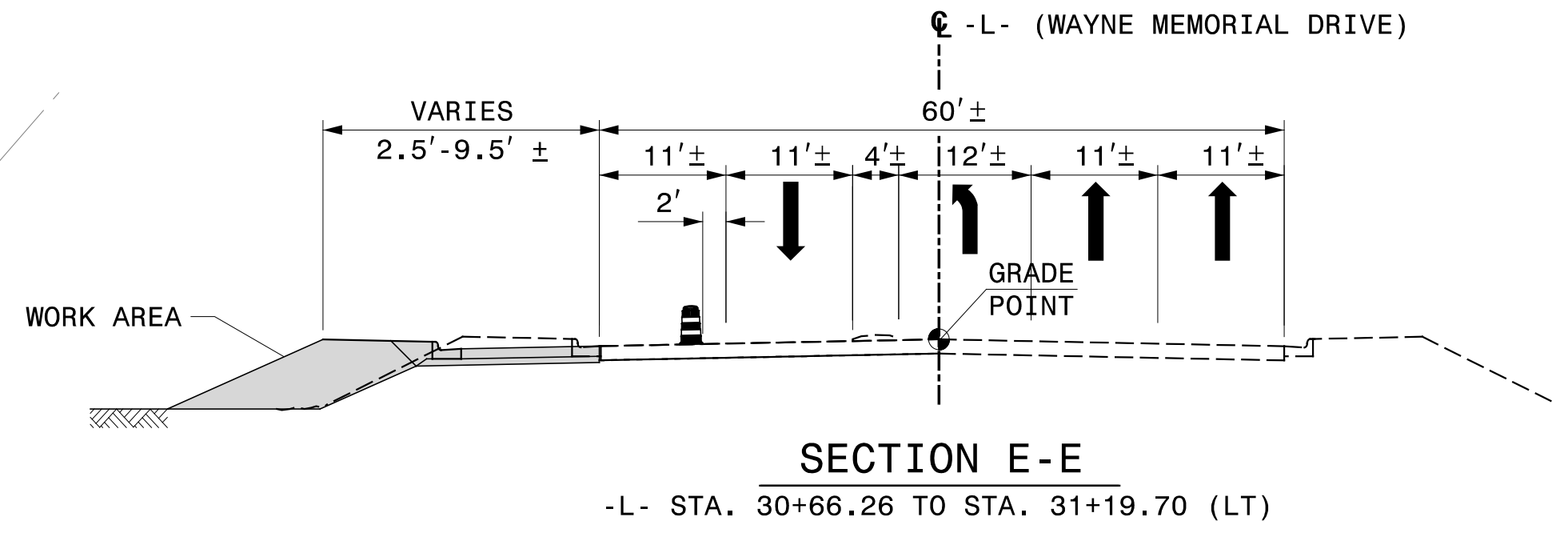


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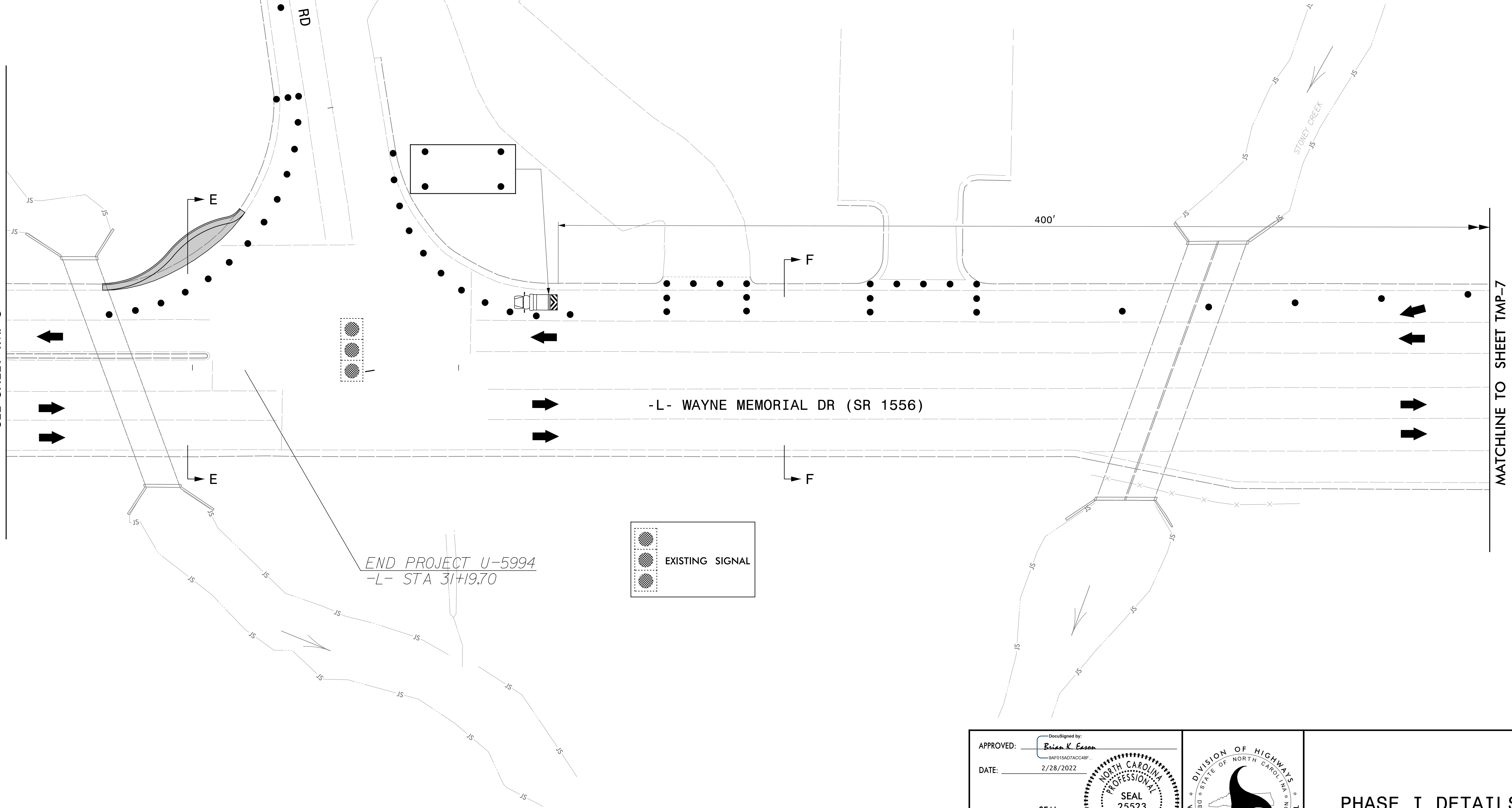
PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-6



-Y2- COUNTRY DAY RD



MATCHLINE -L- STA. 30+30.00
SEE SHEET TMP-5



MATCHLINE TO SHEET TMP-7

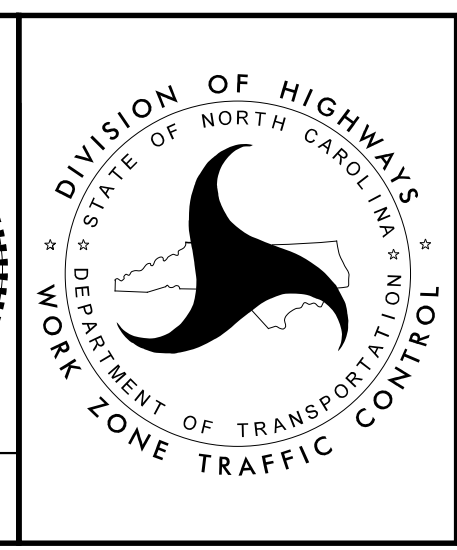
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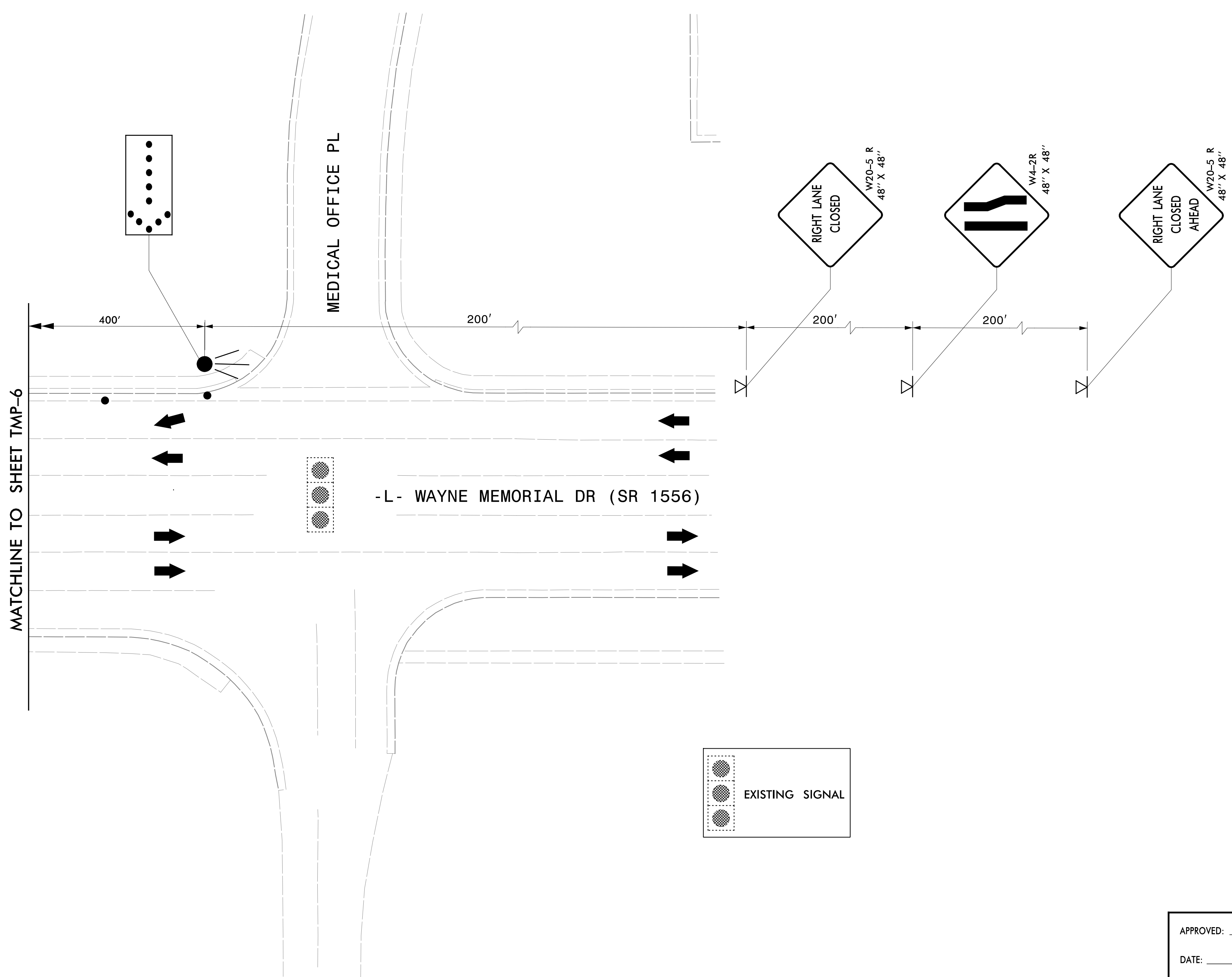
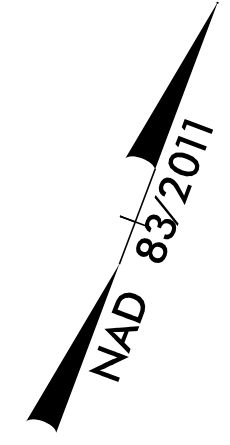
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EXISTING SIGNAL

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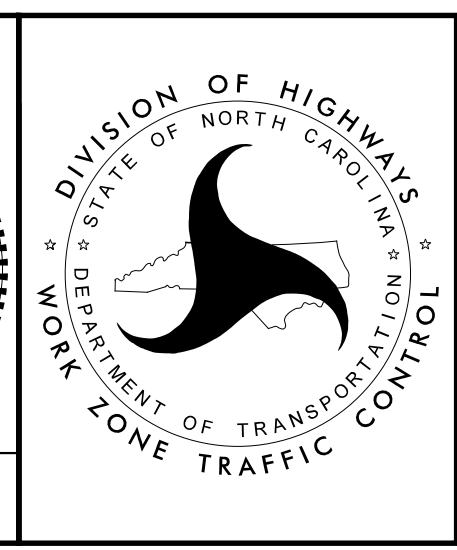
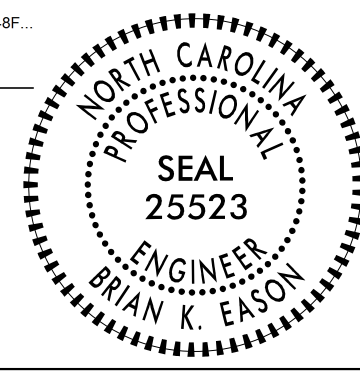
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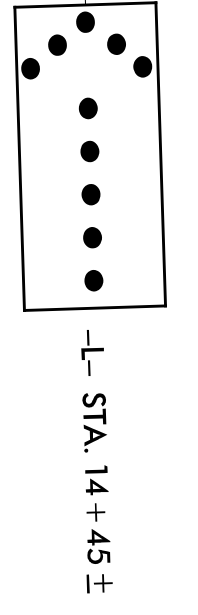
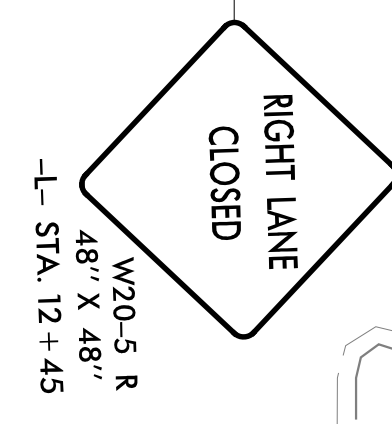
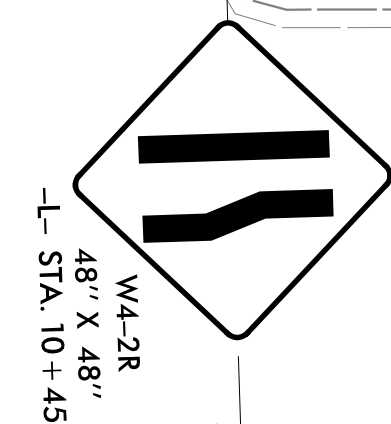
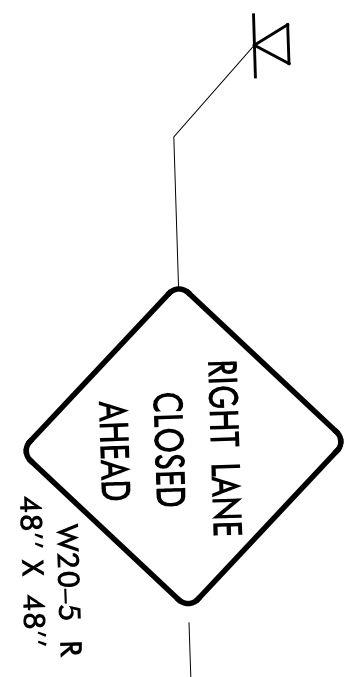
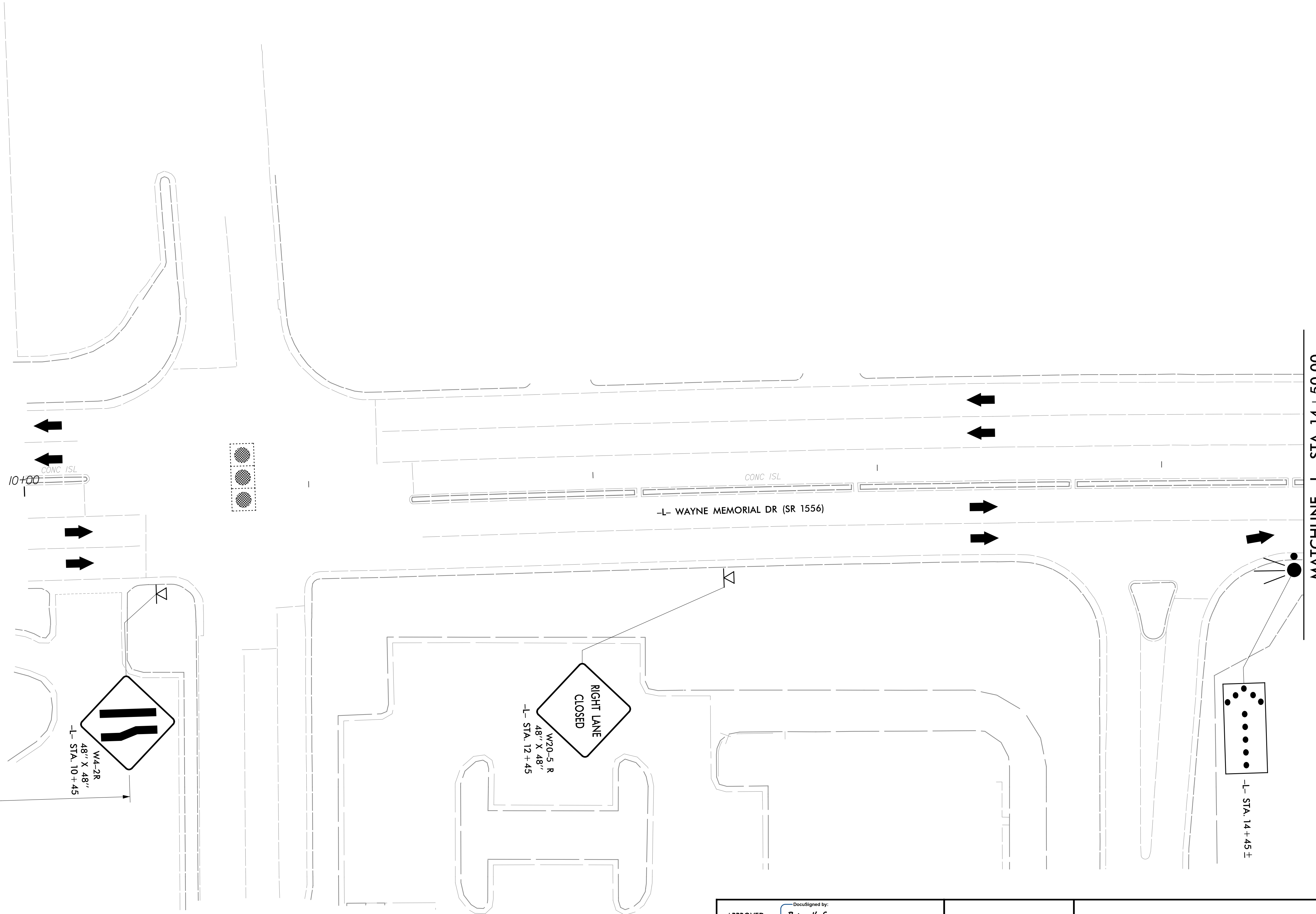
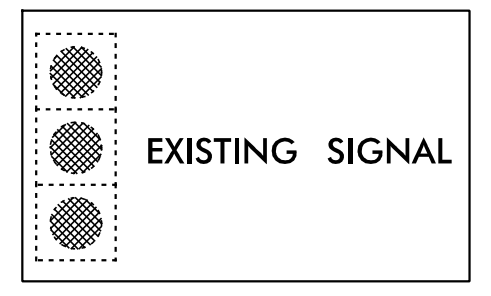
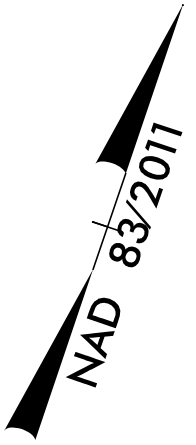
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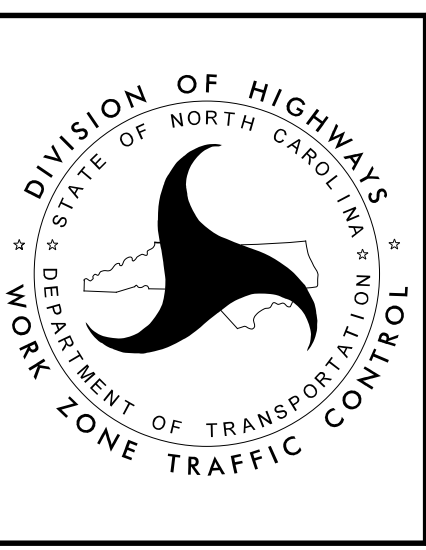


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SEE SHEET TMP-9

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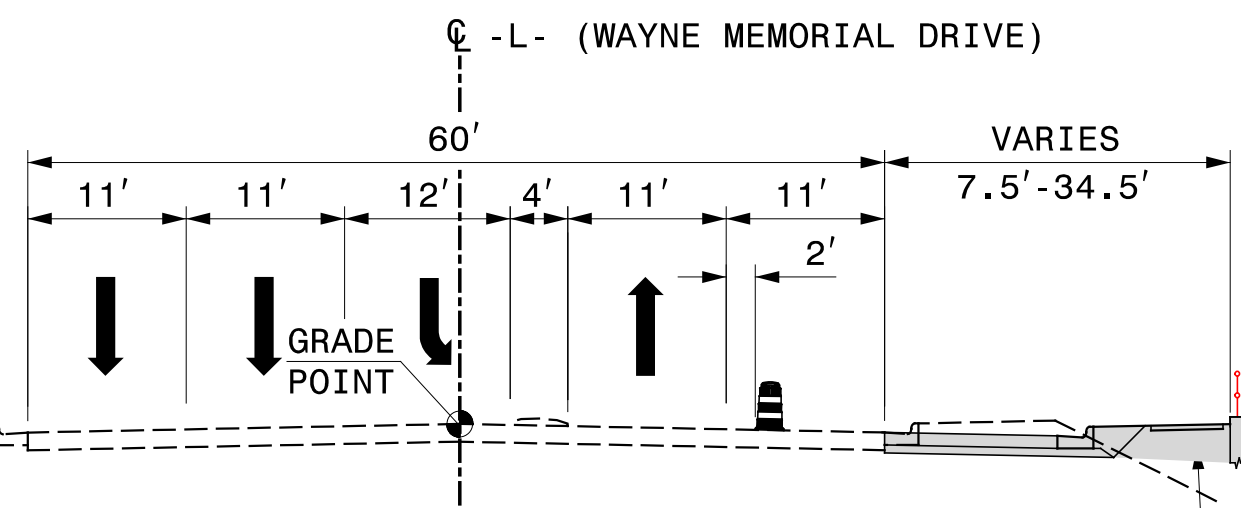
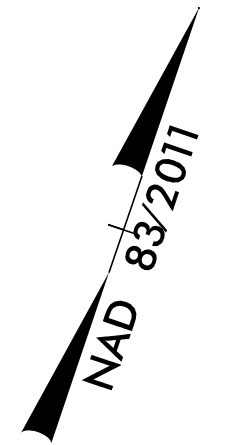
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BRIAN K. EASON



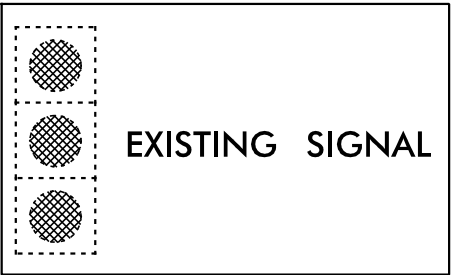
PHASE II DETAILS

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-9



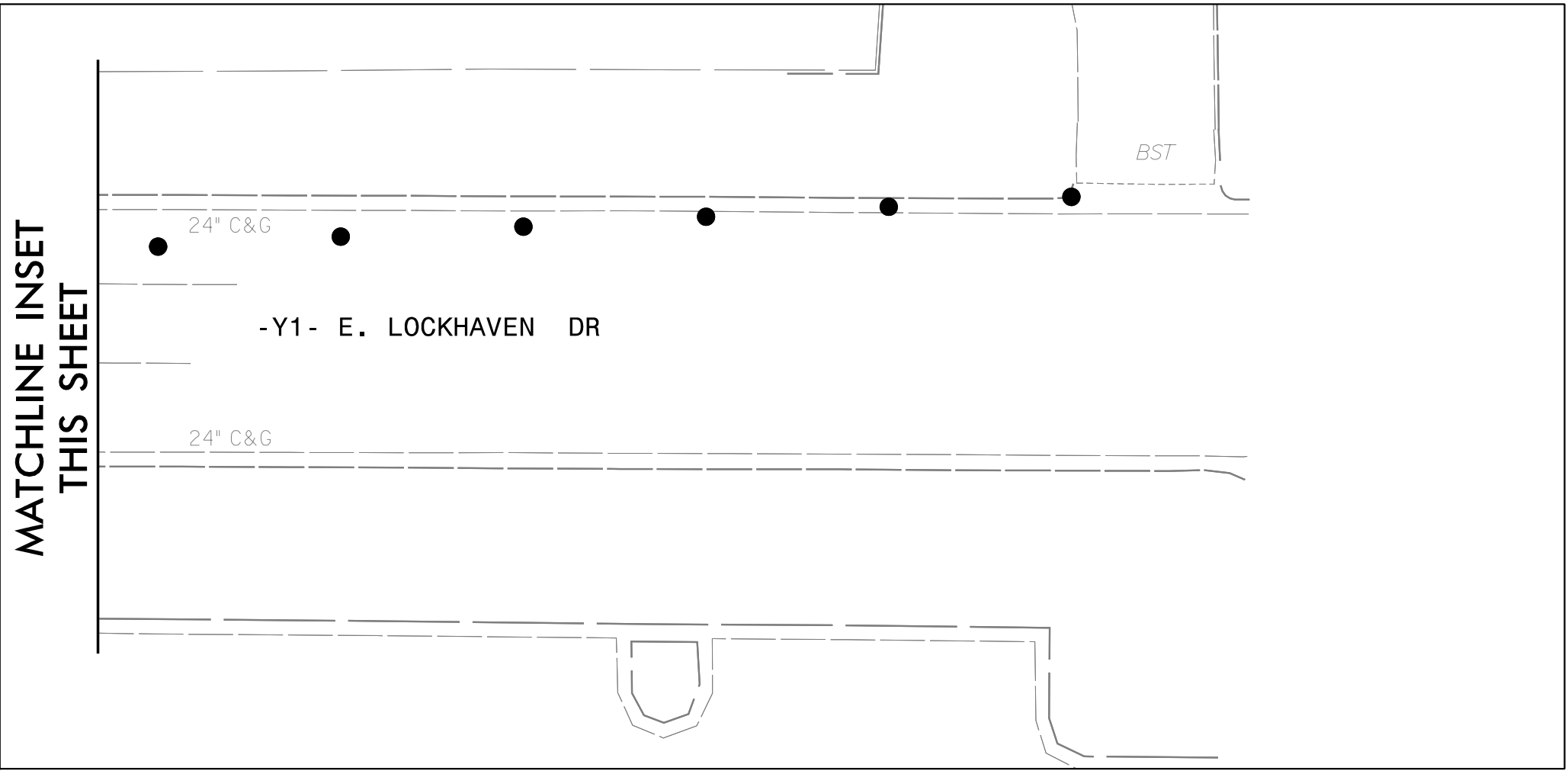
SECTION G-G
-L- STA. 16+74.96 TO STA. 17+94.01 (RT)



BEGIN PROJECT U-5994
-L- POT Sta. 15+82.19

MATCHLINE -L- STA. 14+50.00
SEE SHEET TMP-8

MATCHLINE -L- STA. 20+00.00
SEE SHEET TMP-10



MATCHLINE INSET
THIS SHEET

-Y1- E. LOCKHAVEN DR

-Y1- W. LOCKHAVEN DR

CONTRACTOR TO PROVIDE PEDESTRIAN
TRANSPORT SERVICE FOR PEDESTRIAN
TRAFFIC TO/FROM THE WEST ON
E. LOCKHAVEN DR. AND WAYNE MEM. DR.

BASED ON THE SELECTED SERVICE,
CONTRACTOR TO PROVIDE APPROPRIATE
SIGNING ON ALL FOUR APPROACHES
TO NOTIFY PEDESTRIANS OF THE
TRANSPORT SERVICE.

PEDESTRIAN CHANNELIZING DEVICE WITH SIGN

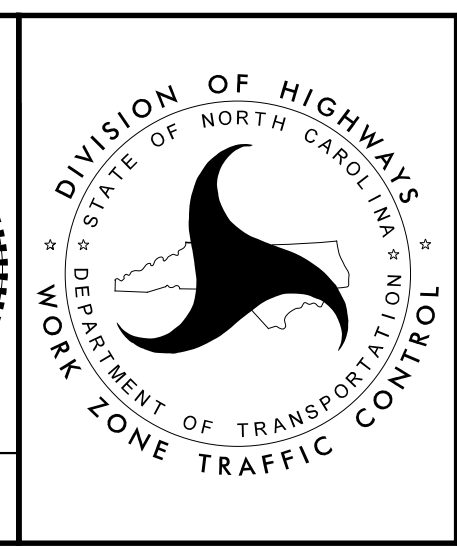


MATCHLINE INSET
THIS SHEET

4/21/2022
U5994_WZTC_TMP_09_P12.dgn
RKNIGHT

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111
NC License
Number F-0159

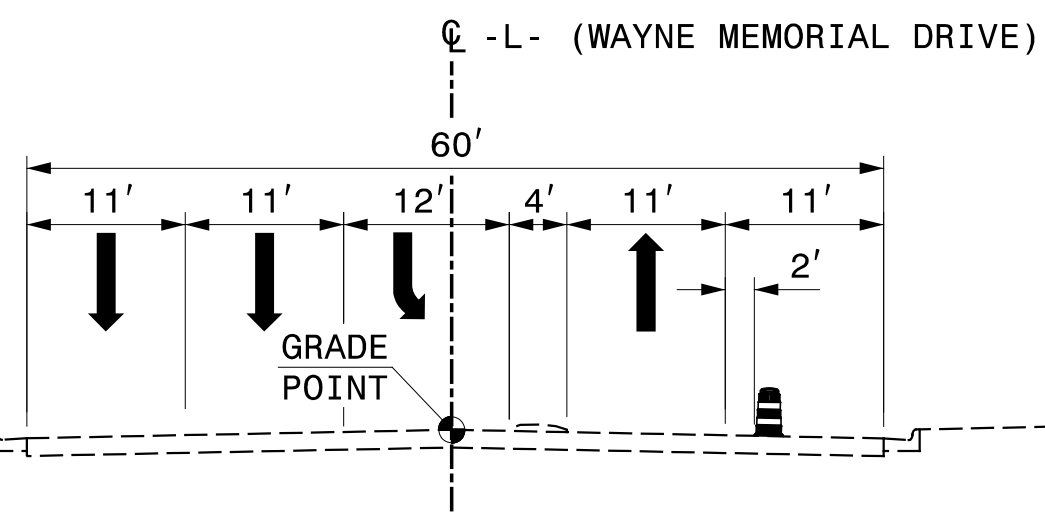
APPROVED: *Brian K. Eason*
DATE: 4/21/2022
SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
25523
BRIAN K. EASON



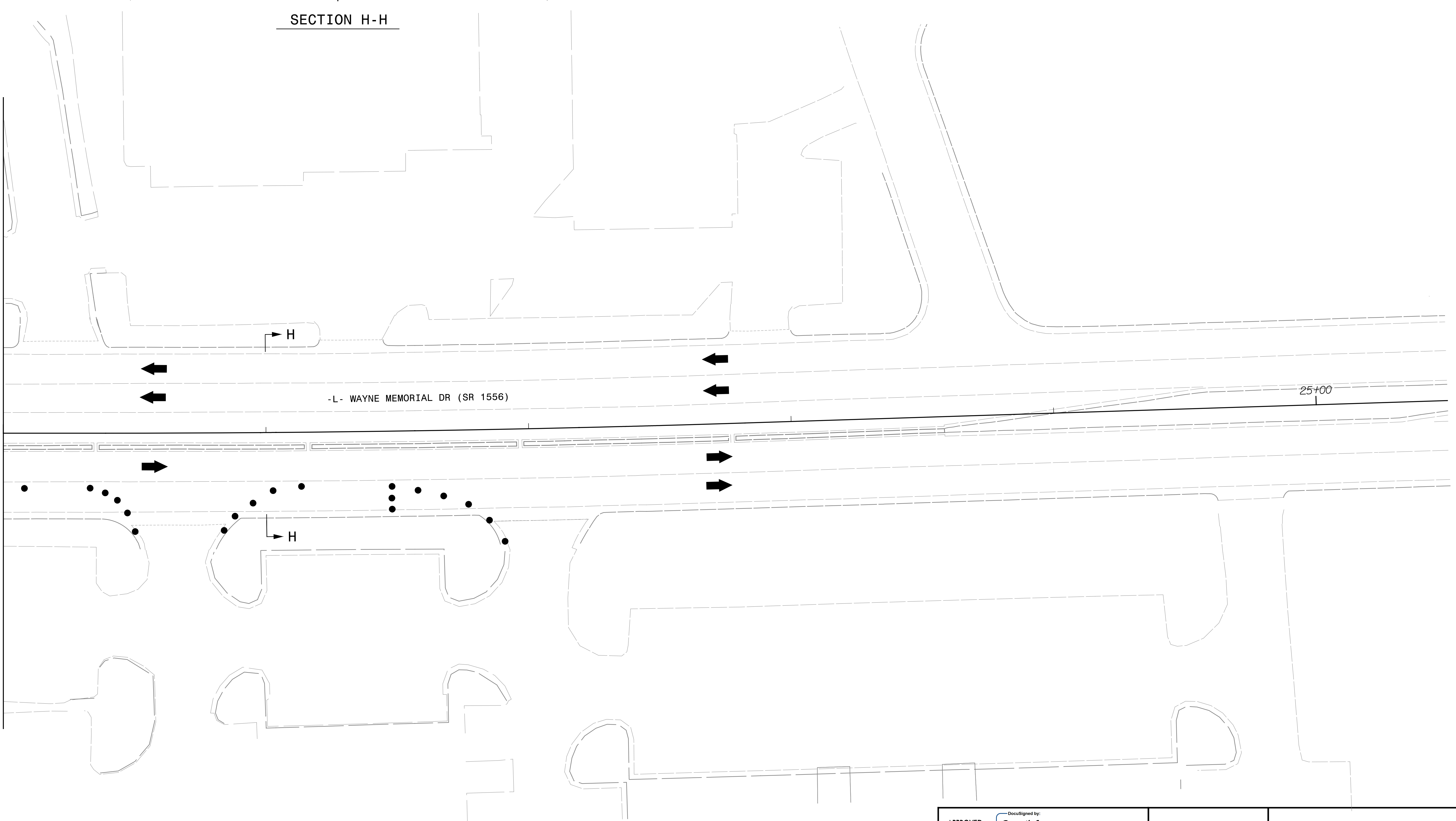
PHASE II DETAILS

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-10



MATCHLINE -L- STA. 20+00.00
SEE SHEET TMP-9



02/25/22
U5994.WZTC.TMP_IO_P42.dgn
RKNIGHT

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111

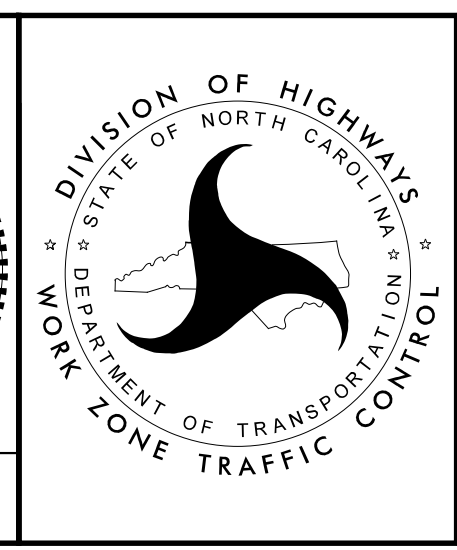
NC License
Number F-0159

APPROVED: *Brian K. Eason*
DATE: 2/28/2022

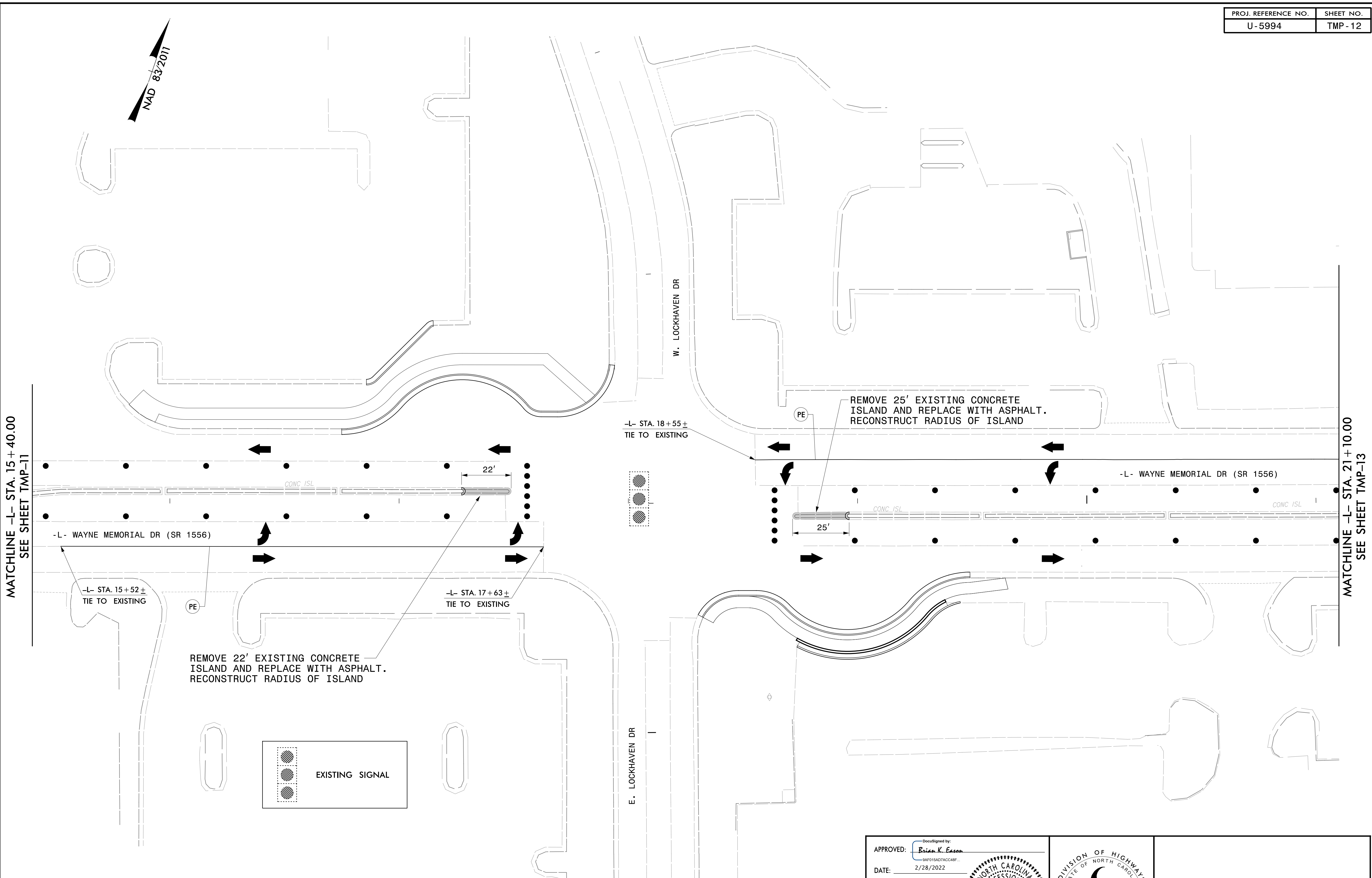
SEAL

SEAL
25523
ENGINEER
BRIAN K. EASON

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PHASE II DETAILS



MATCHLINE -L- STA. 15 + 40.00
SEE SHEET TMP-11

MATCHLINE -L- STA. 21 + 10.00
SEE SHEET TMP-13

02/25/22
U5994.WZTC.TMP_12_P13.dgn
RKNIGHT

LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

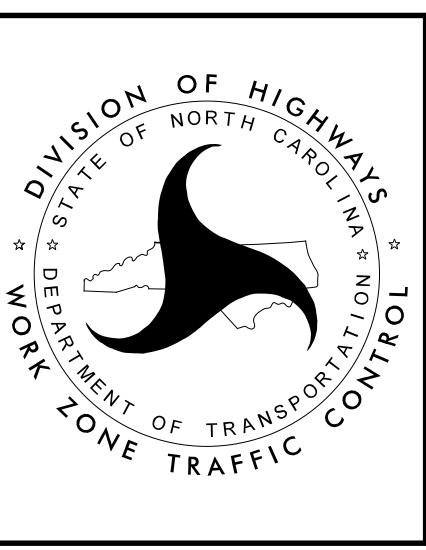
NC License Number F-0159

APPROVED: *Brian K. Eason*
 DATE: 2/28/2022

SEAL

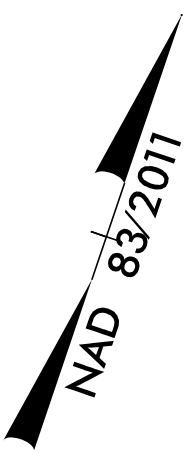
SEAL
 25523
 ENGINEER
 BRIAN K. EASON

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

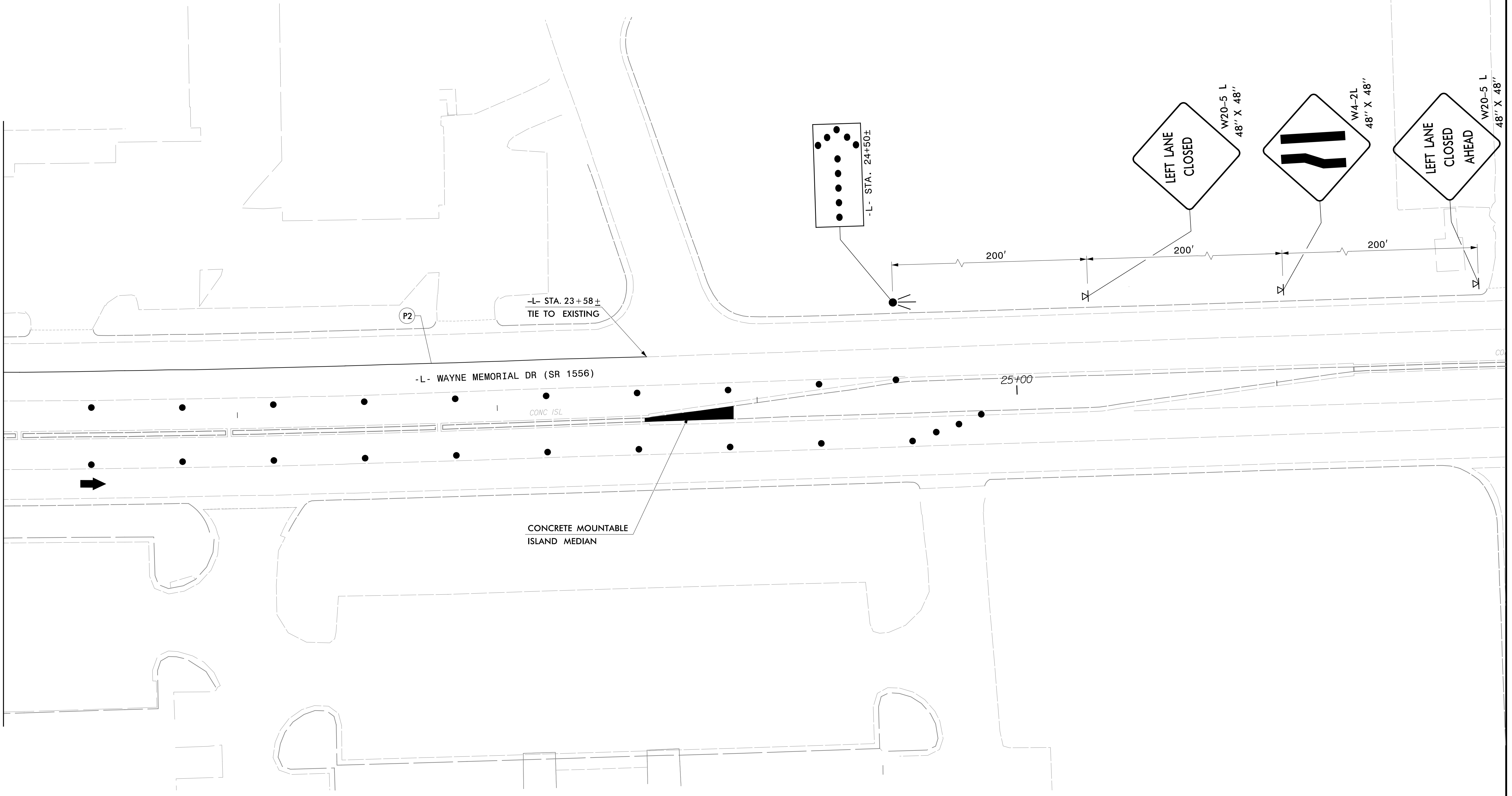


PHASE III DETAILS

PROJ. REFERENCE NO.	SHEET NO.
U-5994	TMP-13



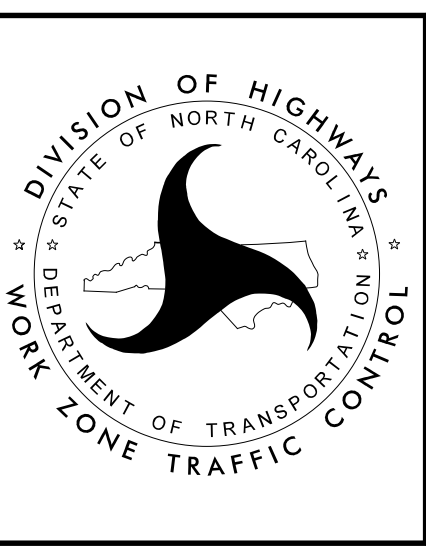
MATCHLINE -L- STA. 21+10.00
SEE SHEET TMP-12



02/25/22
U5994.WZTC.TMP-13-PH3.dgn
RKNIGHT

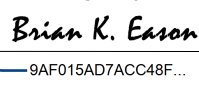

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111
NC License Number F-0159

APPROVED: *Brian K. Eason*
DATE: 2/28/2022
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 25523
BRIAN K. EASON



PHASE III DETAILS

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO. U-5994	SHEET NO. PMP-1
APPROVED: 	DocuSigned by: Brian K. Eason -34F015AD7ACCAF6-
DATE: 3/18/2022	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

T.I.P.: U-5994

PAVEMENT MARKING PLAN
WAYNE COUNTY

LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT E. LOCKHAVEN
DRIVE AND COUNTRY DAY ROAD

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2 PMP-2A	CURB RAMPS - PARALLEL RAMPS REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING
PMP-3 THRU PMP-4	PAVEMENT MARKING DETAIL

ROADWAY STANDARD DRAWING

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

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS

GENERAL NOTES

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

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

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	NONE
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

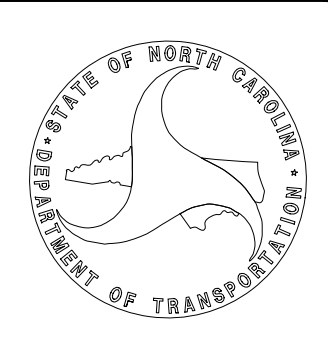
FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM
T5	2 FT. - 6 FT./SP WHITE MINISKIP (4", 90 MIL)	THERMOPLASTIC
T10	YELLOW EDGELINE (4", 90 MIL)	THERMOPLASTIC
T13	YELLOW DOUBLE CENTER (4", 90 MIL)	THERMOPLASTIC
T40	WHITE GORELINE (8", 90 MIL)	THERMOPLASTIC
T41	WHITE DIAGONAL (8", 90 MIL)	THERMOPLASTIC
T42	YELLOW DIAGONAL (8", 90 MIL)	THERMOPLASTIC
T61	WHITE STOPBAR (24", 90 MIL)	THERMOPLASTIC
T70	LEFT TURN ARROW (90 MIL)	THERMOPLASTIC
T71	RIGHT TURN ARROW (90 MIL)	THERMOPLASTIC
T78	COMBO. LEFT/U-TURN ARROW (90 MIL)	THERMOPLASTIC

CONTRACT:

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

<u>AYMAN I. ALQUDWAH, PE</u>	SIGNING AND DELINEATION REGIONAL ENGINEER
<u>MITCH EATON, PE</u>	SIGNING AND DELINEATION DESIGN ENGINEER



PLAN PREPARED BY:

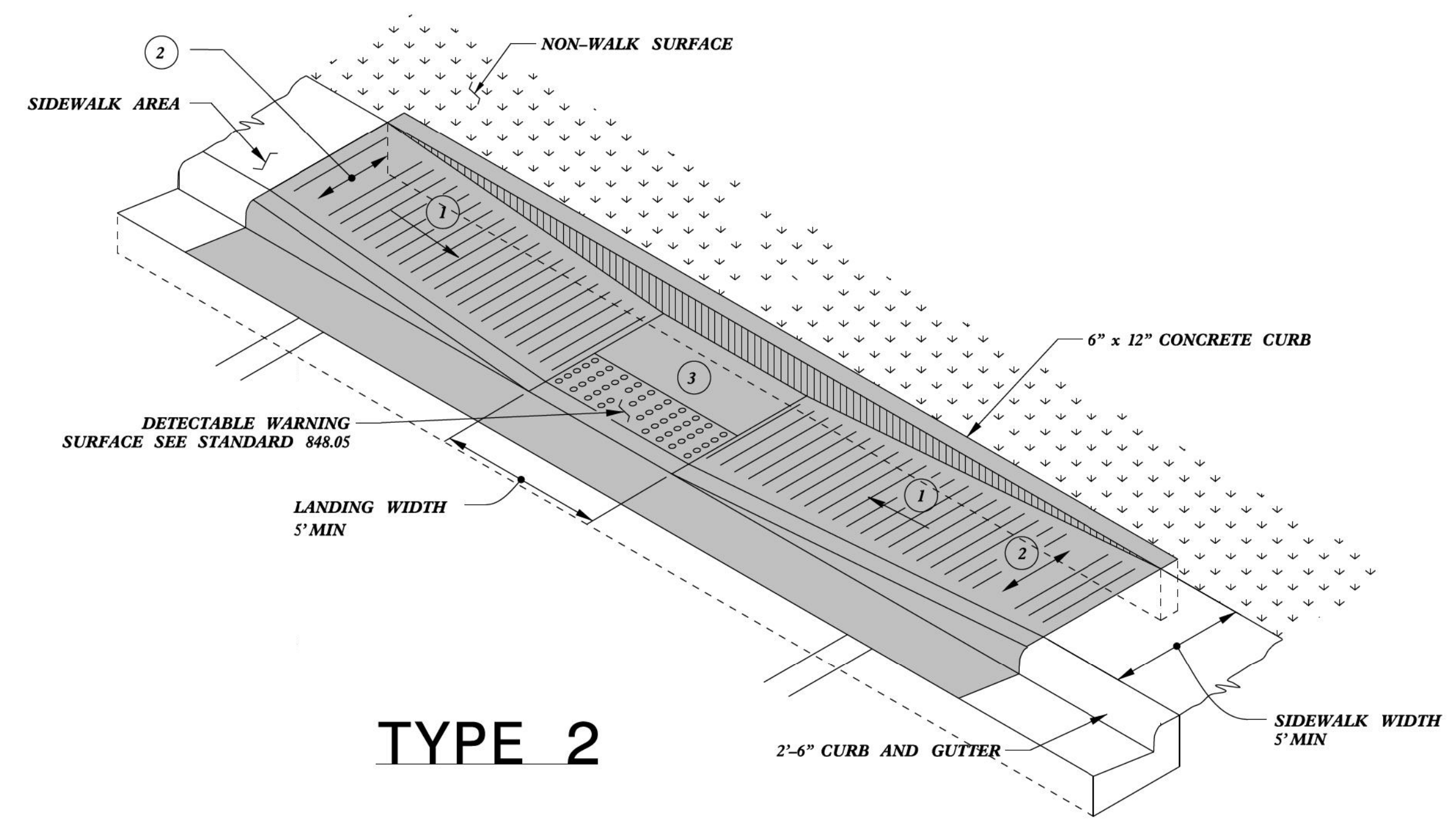
<u>BRIAN K. EASON, PE</u>	SENIOR TRANSPORTATION ENGINEER
<u>RODNEY KNIGHT</u>	TRANSPORTATION DESIGNER

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111
NC License
Number F-0159

STAMPED AND SIGNED BY THE ENGINEER

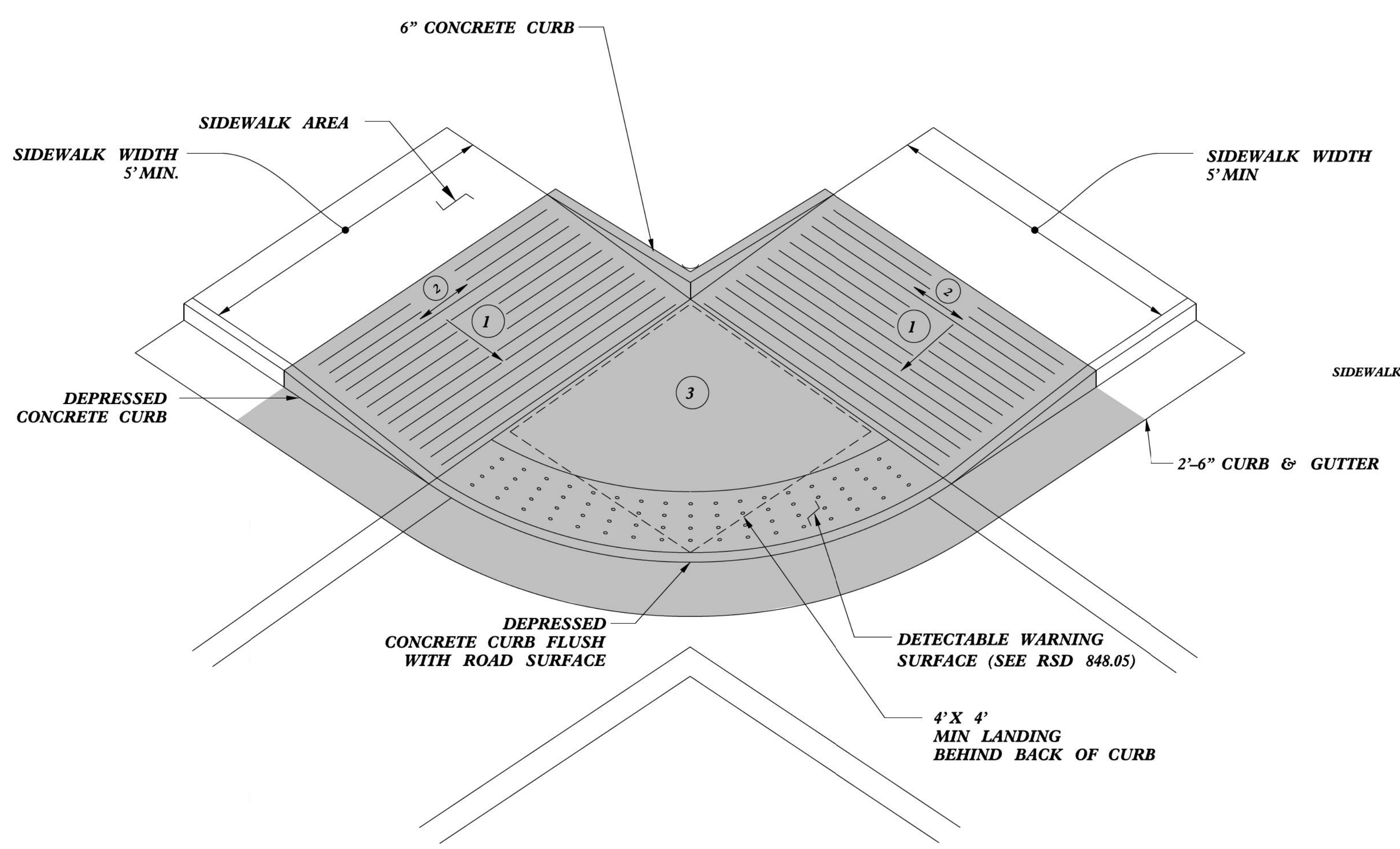
5/14/99



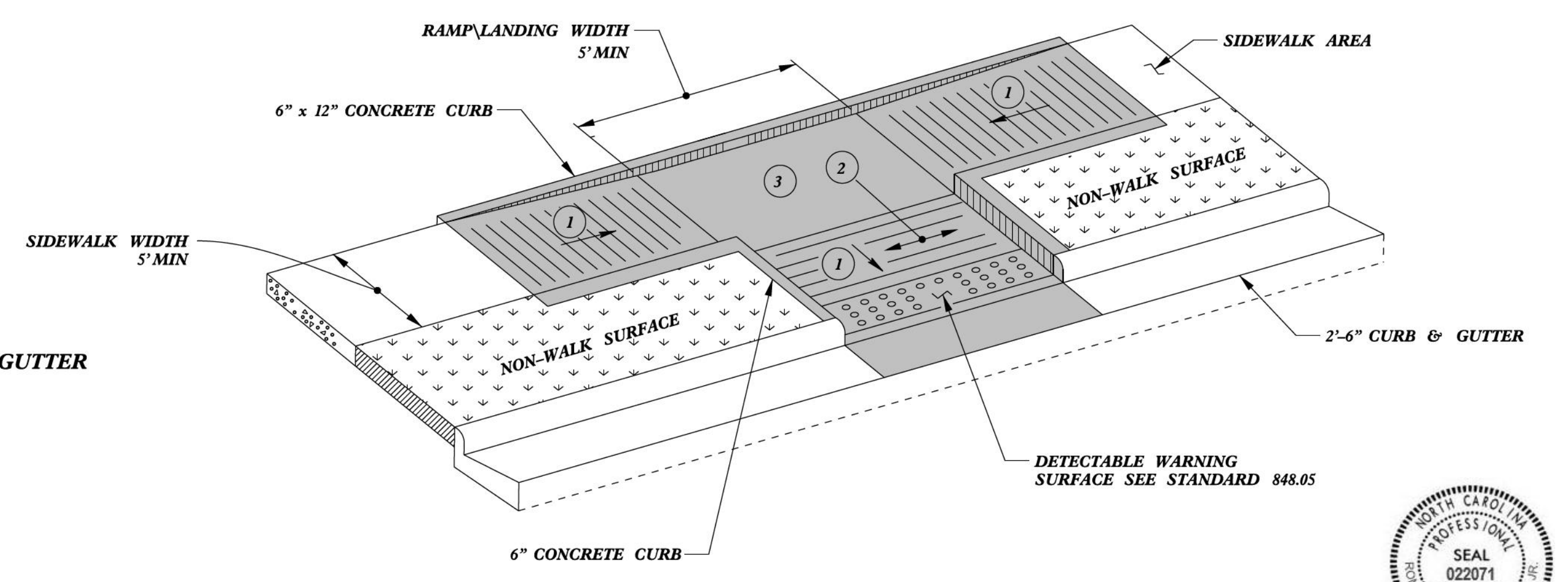
TYPE 2

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



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

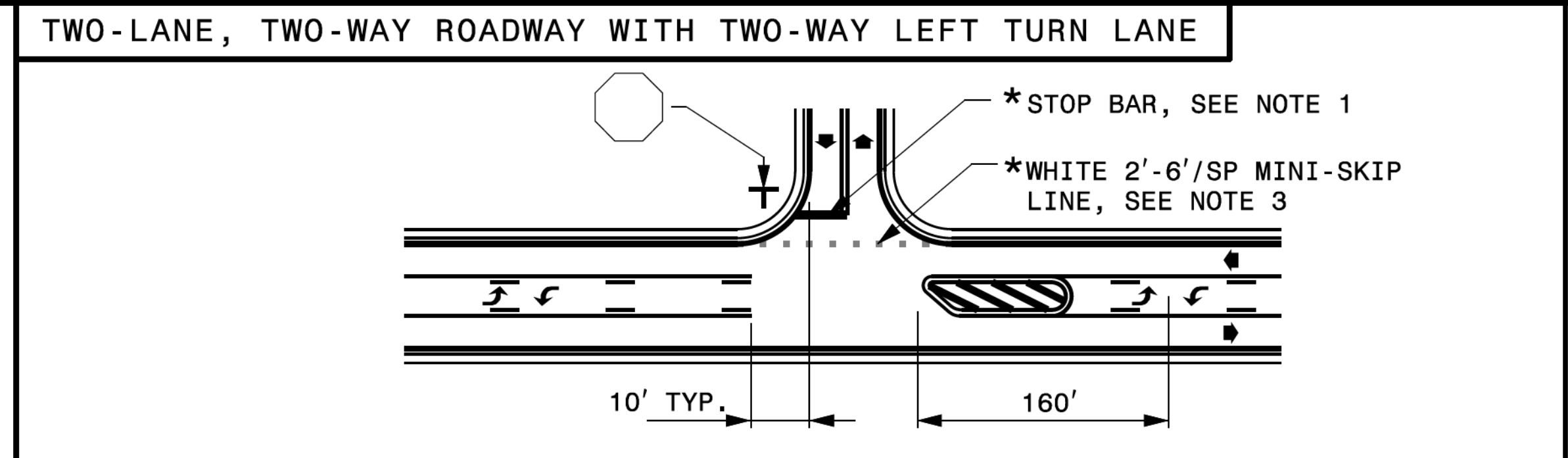
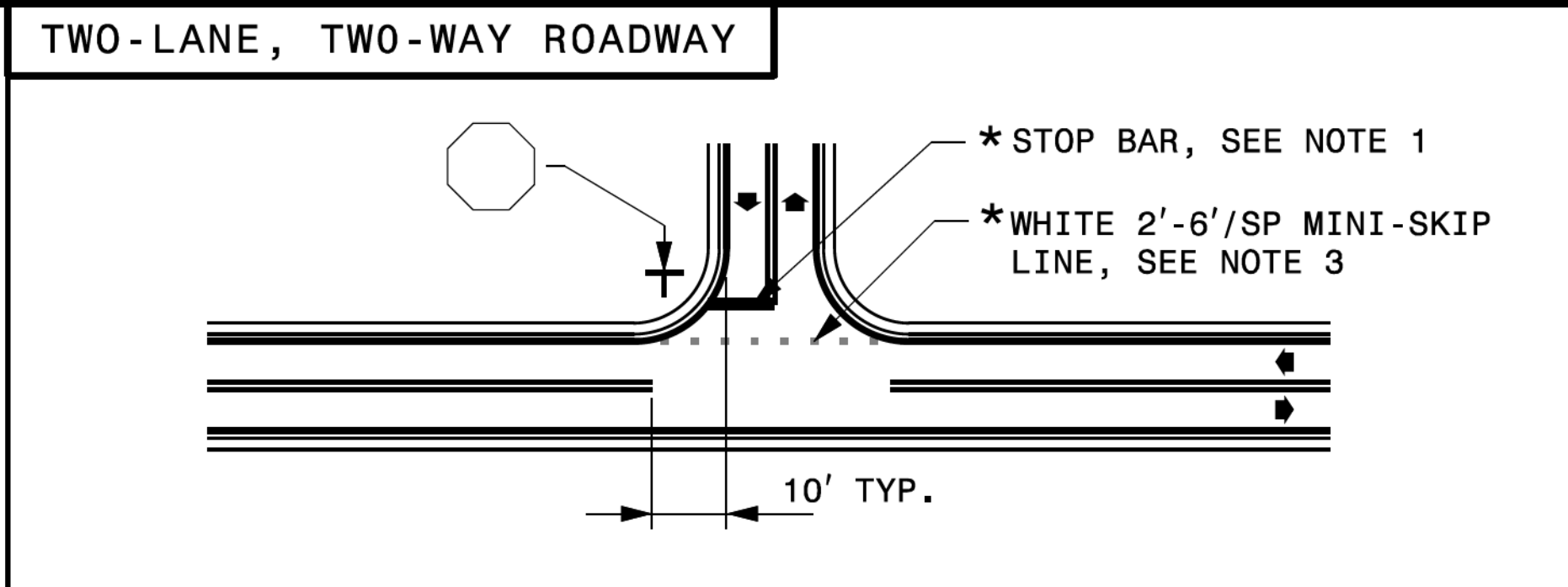
CURB RAMPS
Parallel Ramps

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

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

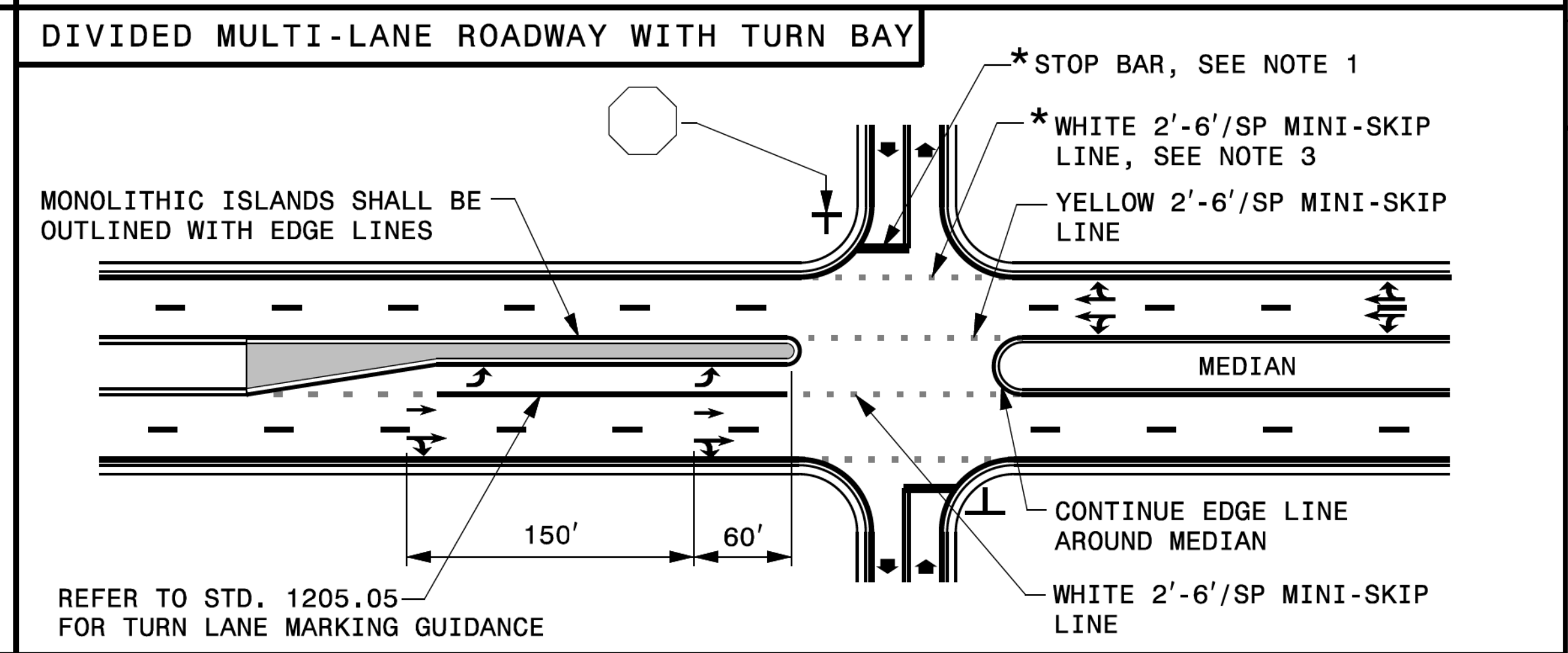
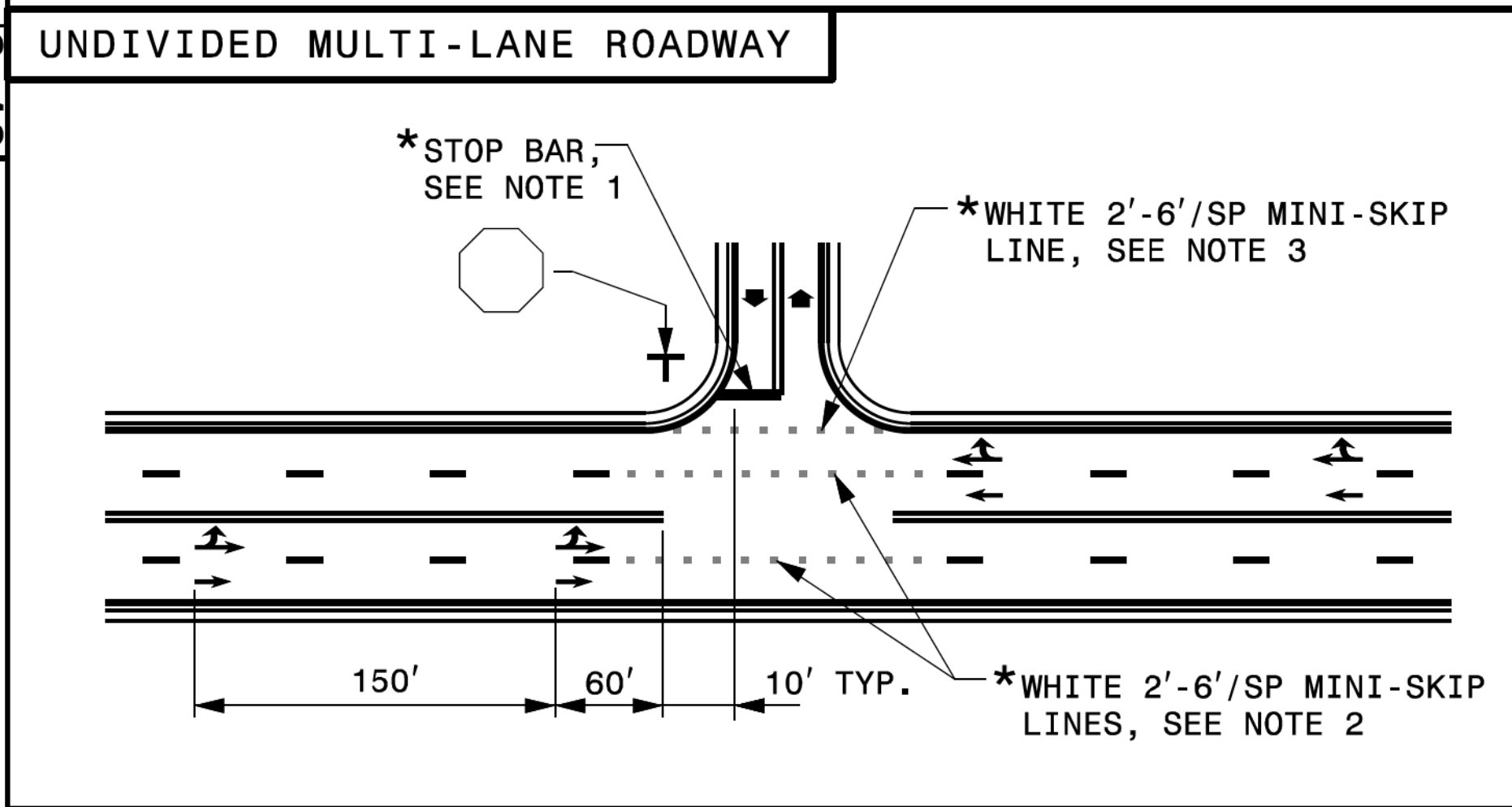
5/14/99

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

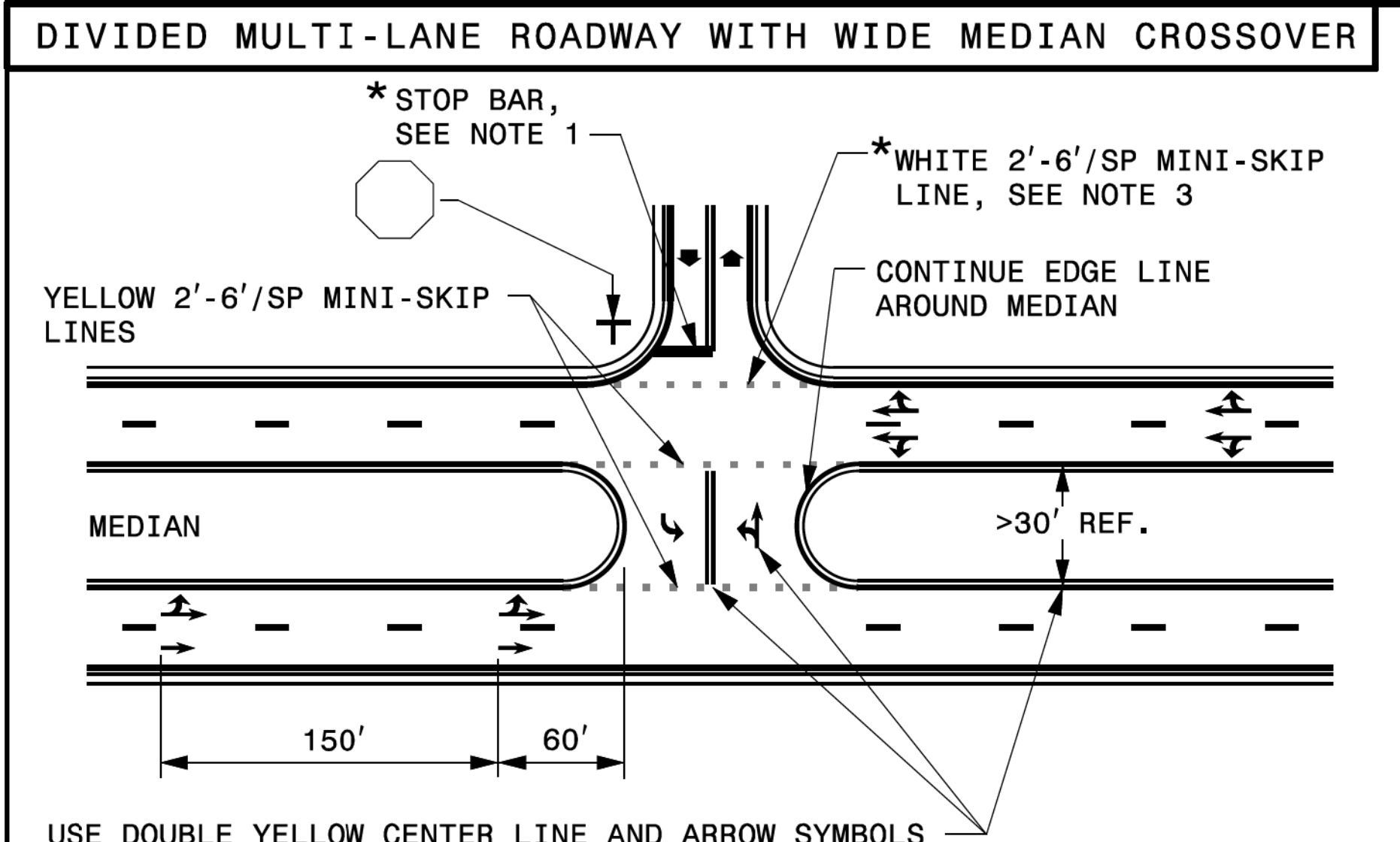


STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS



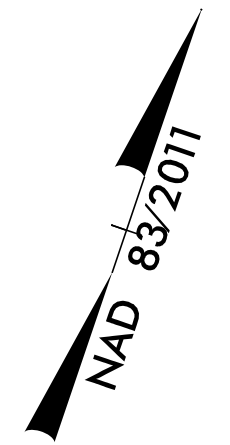
ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS



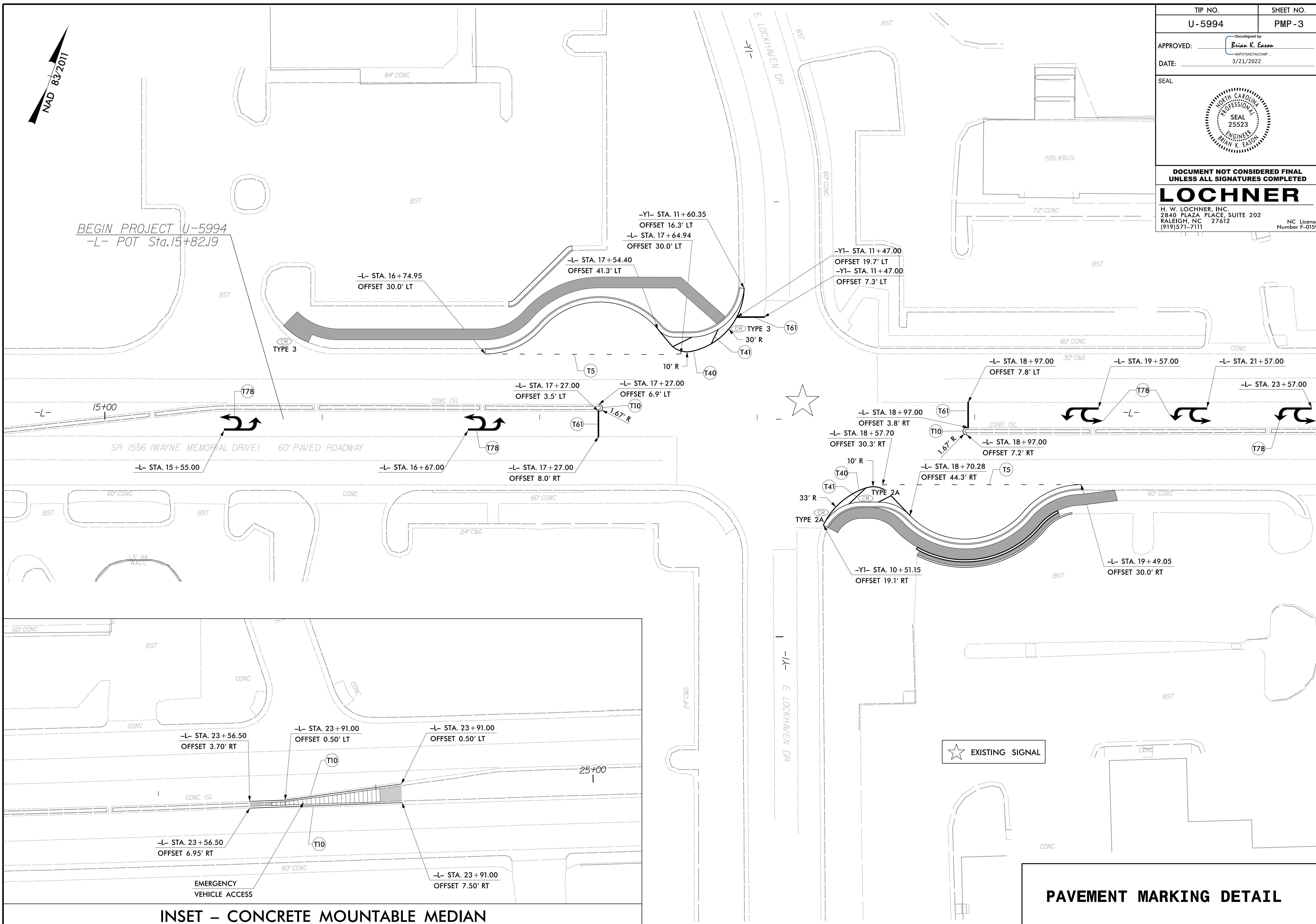
- GENERAL NOTES:
- 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.
 - 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
 - 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.
 - 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

STOP SIGN	STATIONARY SIGN
DIRECTION OF TRAFFIC FLOW	PAVEMENT MARKING SYMBOLS
* OPTIONAL	




TIP NO. U-5994	SHEET NO. PMP -3
APPROVED: <i>Brian K. Eason</i>	DocuSigned by: <i>Brian K. Eason</i>
DATE: 3/21/2022	3/21/2022
SEAL	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>LOCHNER</p> <p>H. W. LOCHNER, INC. 2840 PLAZA PLACE, SUITE 202 RALEIGH, NC 27612 (919)571-7111</p> <p>NC License Number F-0159</p>	

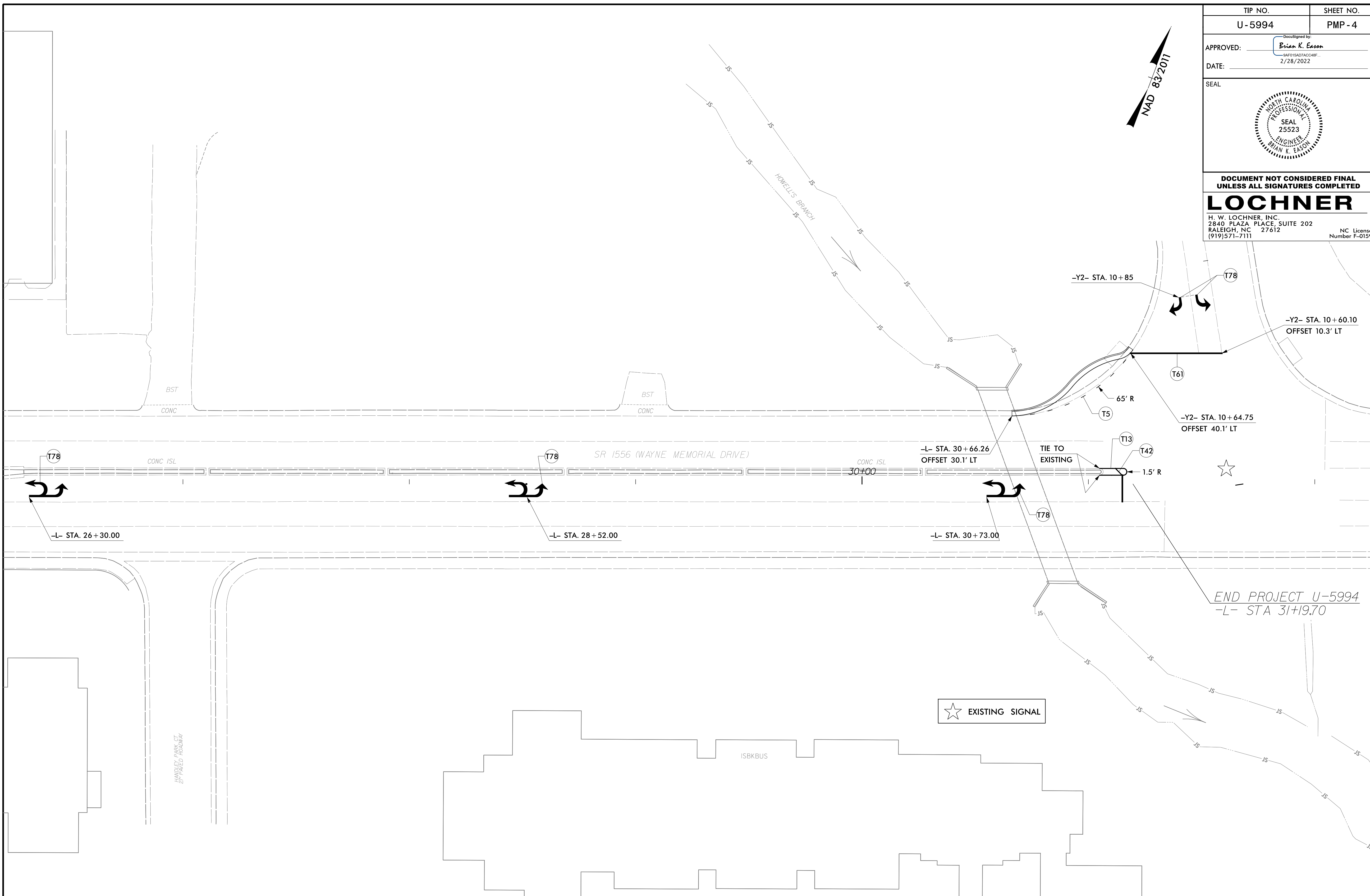
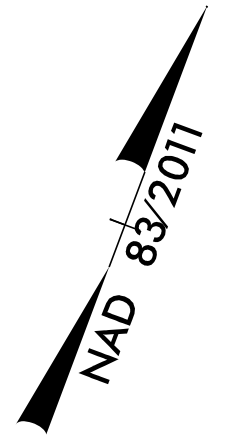


3/23/2022
U5994_L1_C_PMP_03.dgn
BRNIGHT

INSET - CONCRETE MOUNTABLE MEDIAN

PAVEMENT MARKING DETAIL

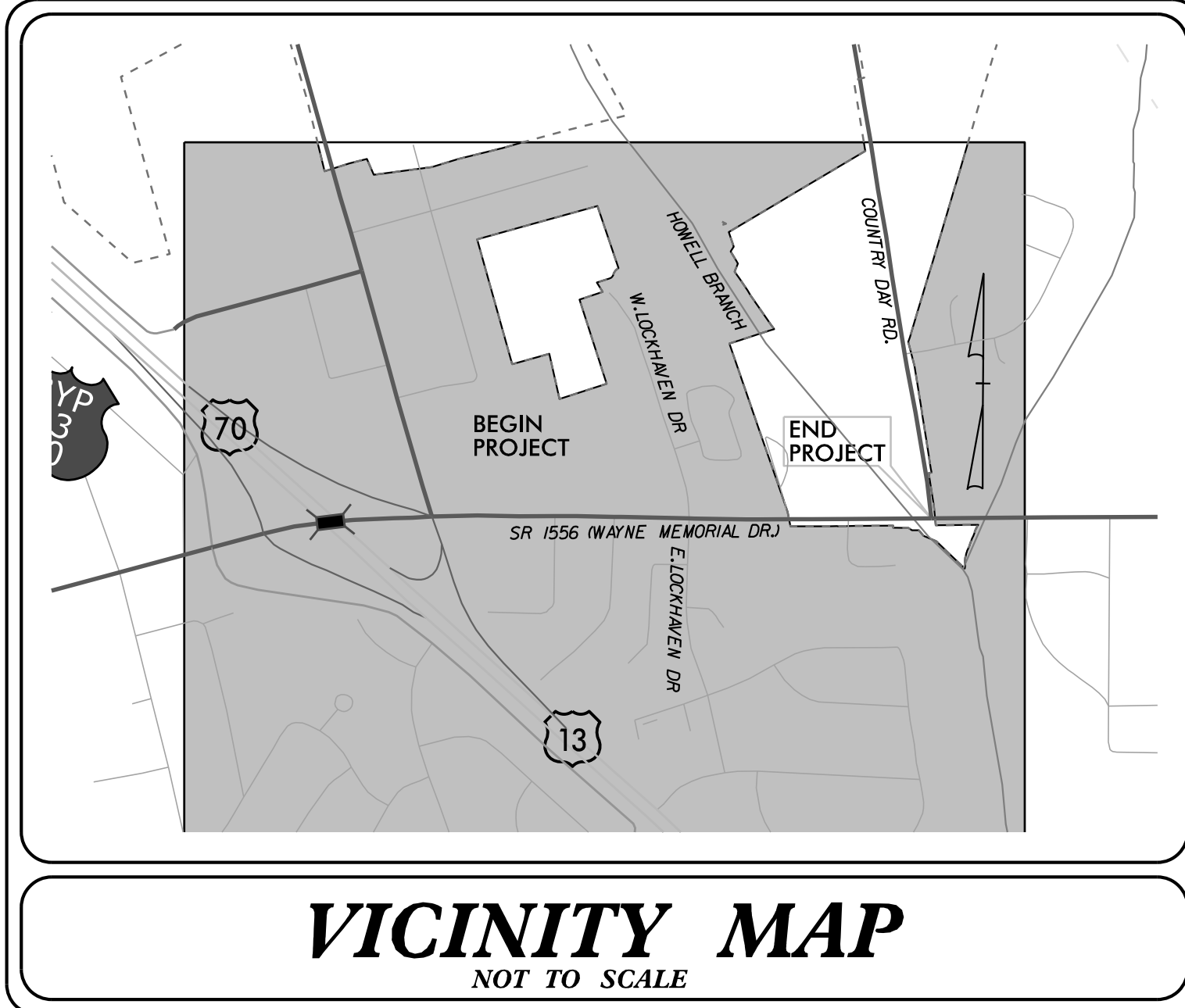
TIP NO. U-5994	SHEET NO. PMP-4
APPROVED: <i>Brian K. Eason</i> 9AF015AD7ACC4BF 2/28/2022	
DATE: _____	
SEAL	
	
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NC License Number F-0159	



2/17/2022
 U5994_1_C-PMP_04.dgn
 BRNIGHT

PAVEMENT MARKING DETAIL

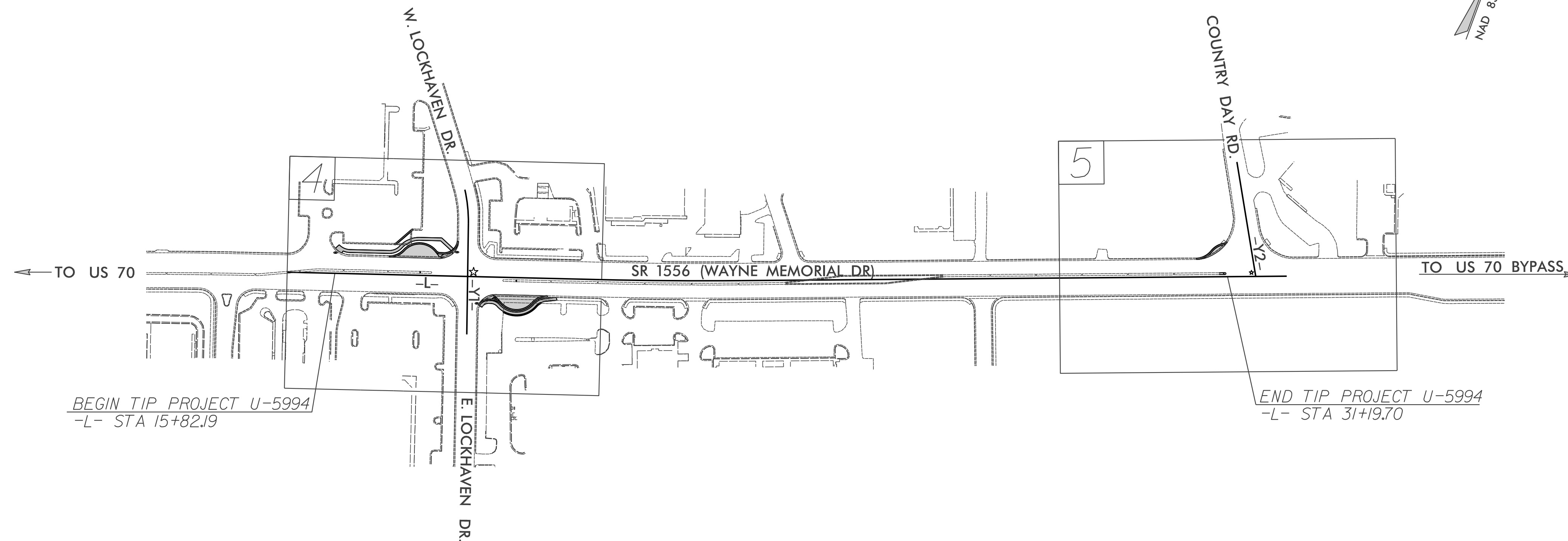
TIP PROJECT: U-5994



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**
WAYNE COUNTY

**LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT
E. LOCKHAVEN DRIVE AND COUNTRY DAY ROAD**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, UTILITIES, SIGNING,
PAVEMENT MARKING**



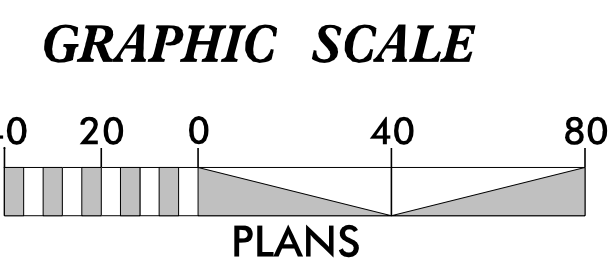
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	no
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▶
	Wattle / Coir Fiber Wattle	—
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	—
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

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

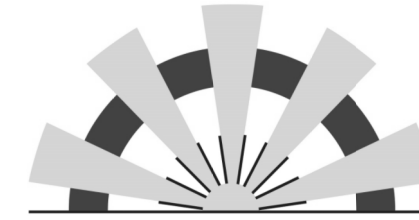
THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT
*Refer To E. C. Special Provisions
for Special Considerations.*



**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.**

Prepared in the Office of:
SUNGATE DESIGN GROUP, P.A.



905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

MATTHEW C. EDWARDS, EI 3992
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-5994</i>	SHEET NO. <i>EC-2</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

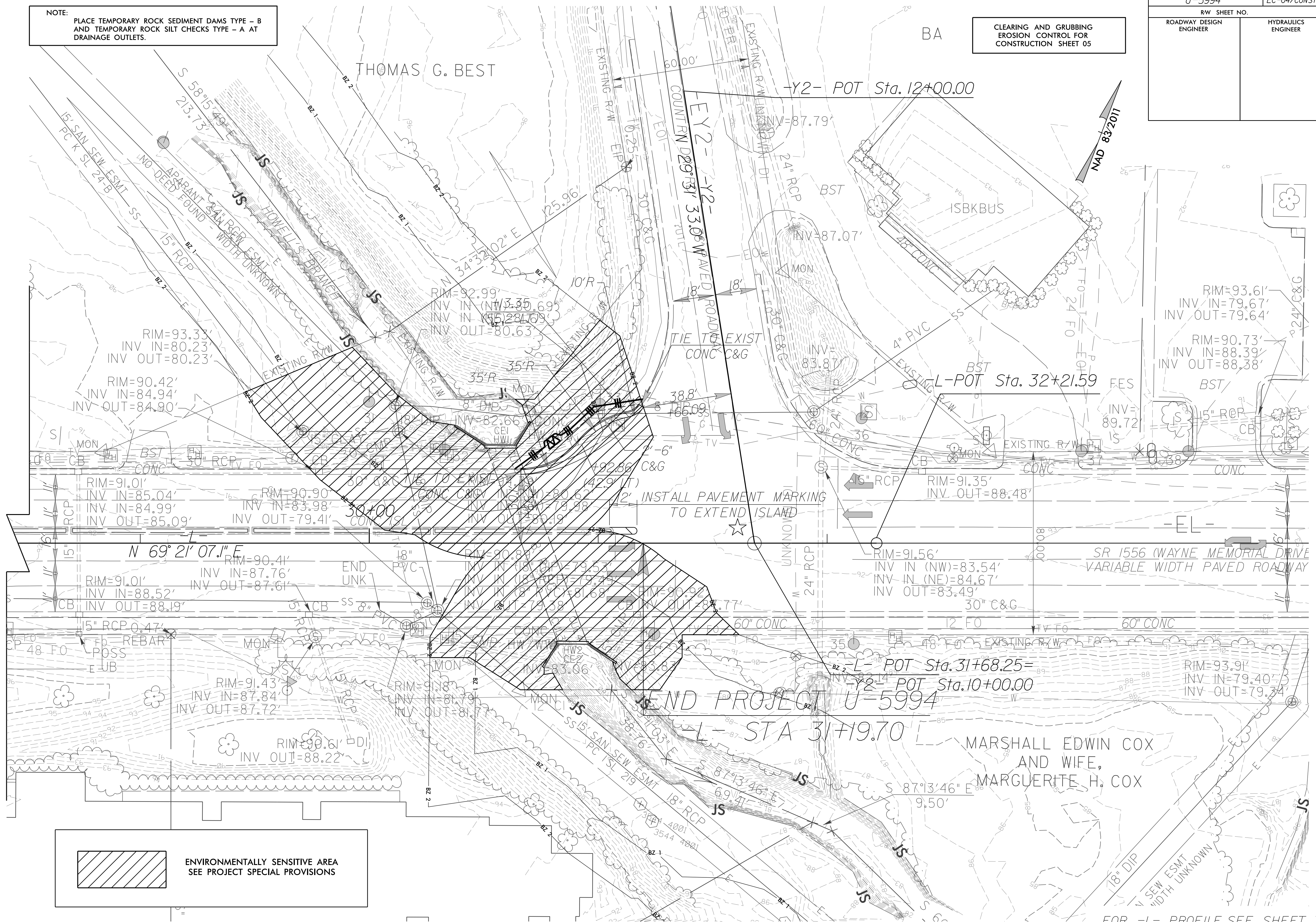
SOIL STABILIZATION TIMEFRAMES

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

PROJECT REFERENCE NO.	SHEET NO.
U-5994	EC-04/CONST.05
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 05



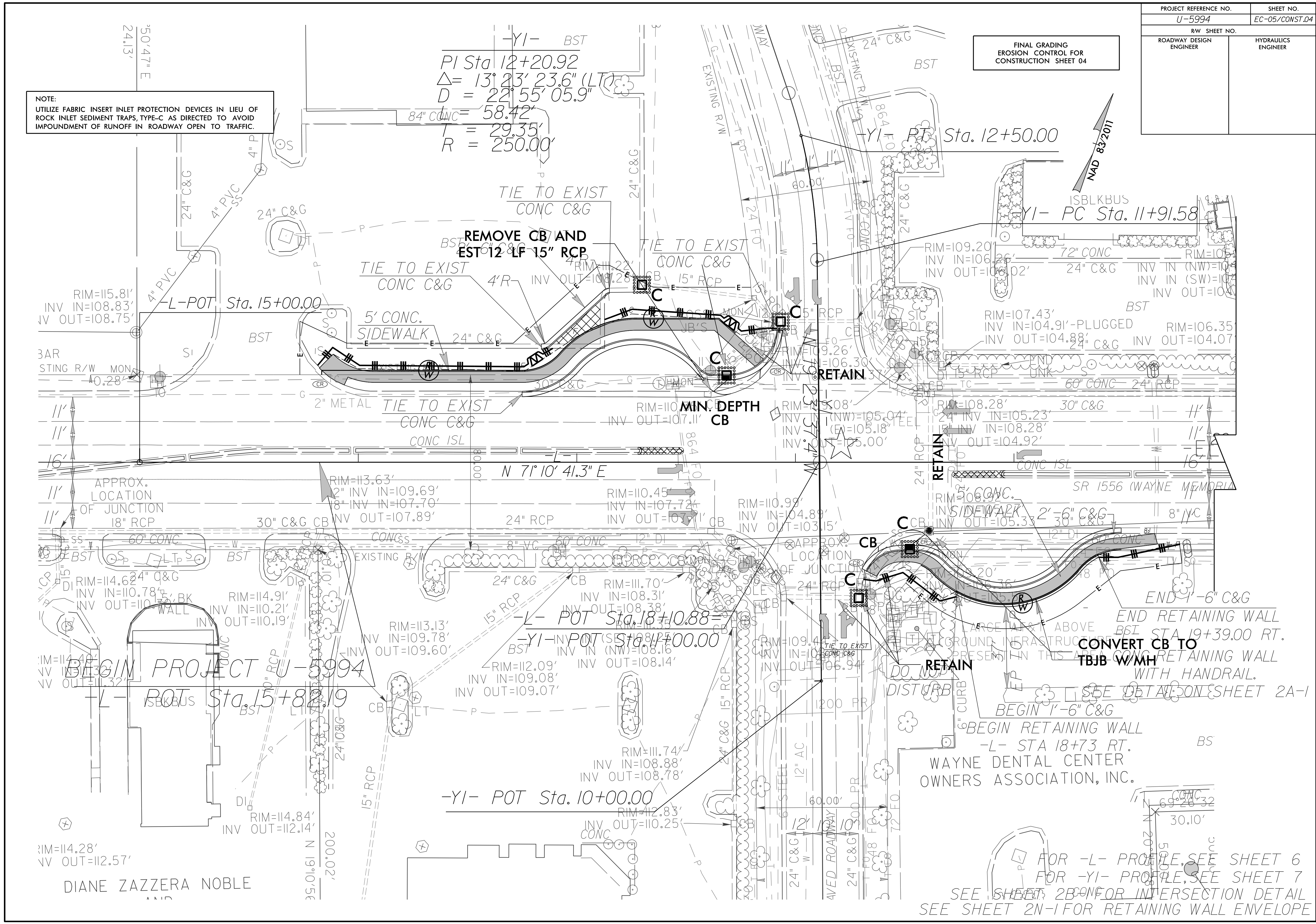
 ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

FOR -L- PROFILE, SEE SHEET 7
FOR -YI- PROFILE, SEE SHEET 7

PROJECT REFERENCE NO.	SHEET NO.
U-5994	EC-05/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



$\Delta = 13^\circ 23' 23.6" (LT)$
 $D = 22^\circ 55' 05.9"$
 $84" \text{ CONC} = 58.42'$
 $R = 250.00'$
 $= 29.35'$

APPROX. LOCATION OF JUNCTION 18" RCP

APPROX. LOCATION OF JUNCTION 24" RCP

BEGIN PROJECT U-5994
-L- POT Sta. 15+82.19

-YI- POT Sta. 10+00.00

RETAINING WALL WITH HANDRAIL
CONVERT CB TO TBBB W/MH
SEE DETAIL ON SHEET 2A-1

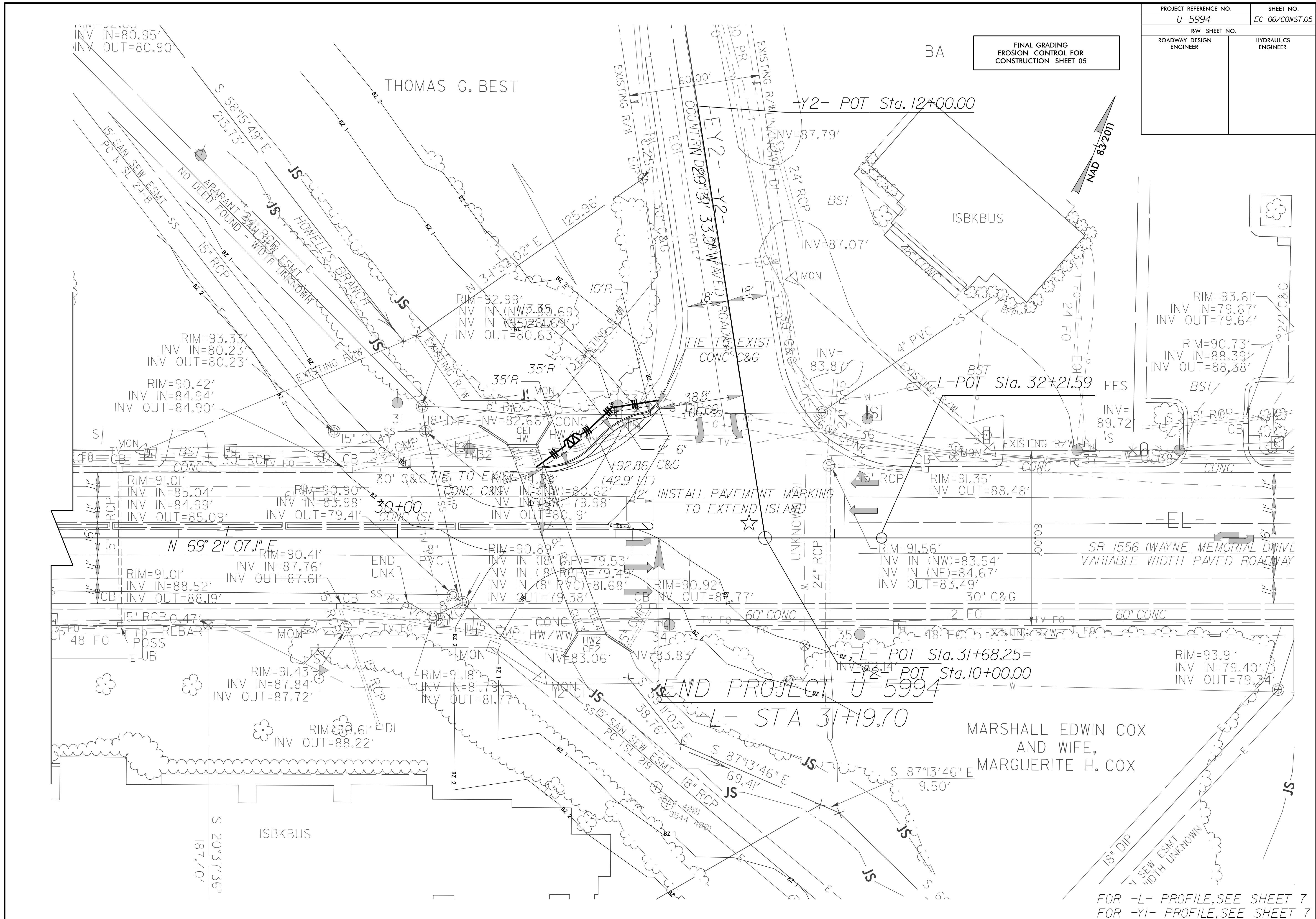
BEGIN RETAINING WALL -L- STA 18+73 RT.
WAYNE DENTAL CENTER OWNERS ASSOCIATION, INC.

FOR -L- PROFILE, SEE SHEET 6
FOR -YI- PROFILE, SEE SHEET 7
SEE SHEET 2B FOR INTERSECTION DETAIL
SEE SHEET 2N-1 FOR RETAINING WALL ENVELOPE

DIANE ZAZZERA NOBLE

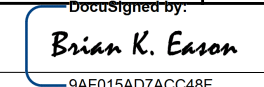
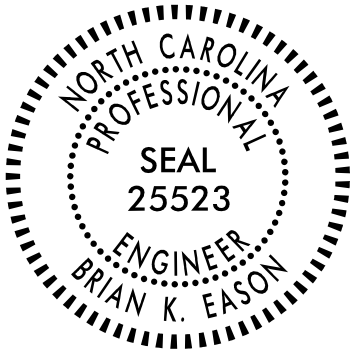
PROJECT REFERENCE NO.	SHEET NO.
U-5994	EC-06/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05



FOR -L- PROFILE, SEE SHEET 7
FOR -YI- PROFILE, SEE SHEET 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO. U-5994	SHEET NO. SGN-1
APPROVED:  BKF015AD7ACC48F	
DATE: 3/22/2022	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGNING PLAN
WAYNE COUNTY

LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT
E. LOCKHAVEN DRIVE AND COUNTRY DAY ROAD

T.I.P.: U-5994

CONTRACT: DD00299

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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	SIGNING TITLE SHEET
SIGN-2	TYPE 'E' SIGNS
SIGN-2A	SIGN DESIGN
SIGN-3	PROPOSED SIGNS

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LBS STEEL U-CHANNEL	48	LF
4102000000	904	SIGN ERECTION, TYPE E SIGN	4	EA
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	2	EA

GENERAL NOTES

- SIGNS FURNISHED BY STATE
- THE BACKGROUND FOR TYPE E SIGN SHALL BE TYPE C REFLECTIVE SHEETING.

PROJECT NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- SIGN ERECTION, TYPE "E" SIGN

PLAN PREPARED BY:

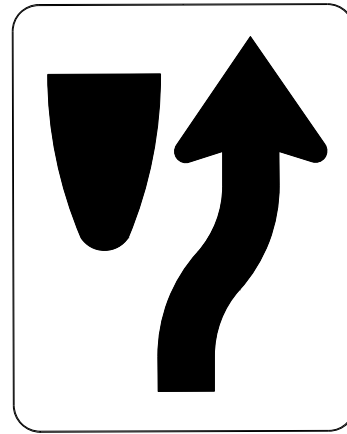
BRIAN EASON, PE SENIOR TRANSPORTATION ENGINEER
RODNEY KNIGHT TRANSPORTATION DESIGNER

LOCHNER

H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111
 NC License Number F-0159

ESTIMATED COST OF SIGNING PLAN: \$1,200.00

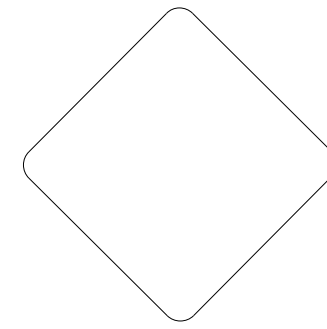
401 QUANTITY REQ'D 2



24 x 30"
R4-7A

ONE U-POST PER SIGN

402 QUANTITY REQ'D 2



18" x 18"
OM1-3

MOUNT BELOW SIGN 401
IN 2 INSTALLATIONS

403 QUANTITY REQ'D 2



2'-5" x 1'-7"
SP1

ONE U-POST PER SIGN

LOCHNER

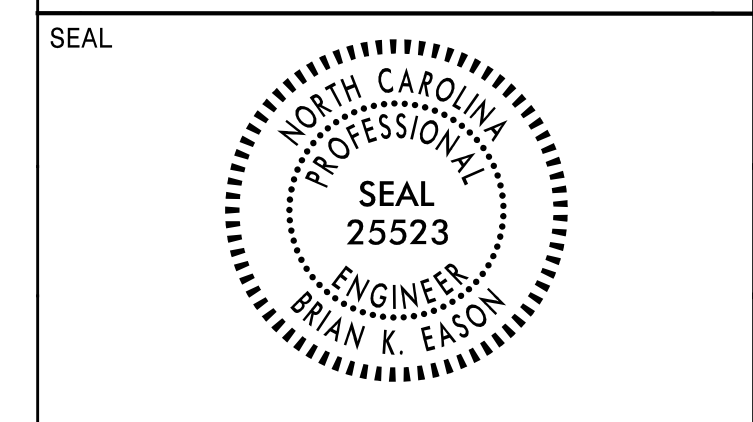
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111

NC License
Number F-0159

TIP NO. U-5994 SHEET NO. SIGN-2

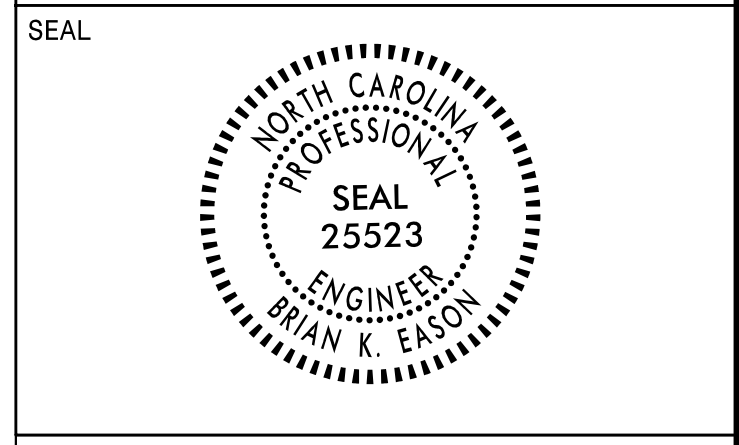
APPROVED: *Brian K. Eason*

DATE: 3/22/2022



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

TYPE "E" SIGNS



**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

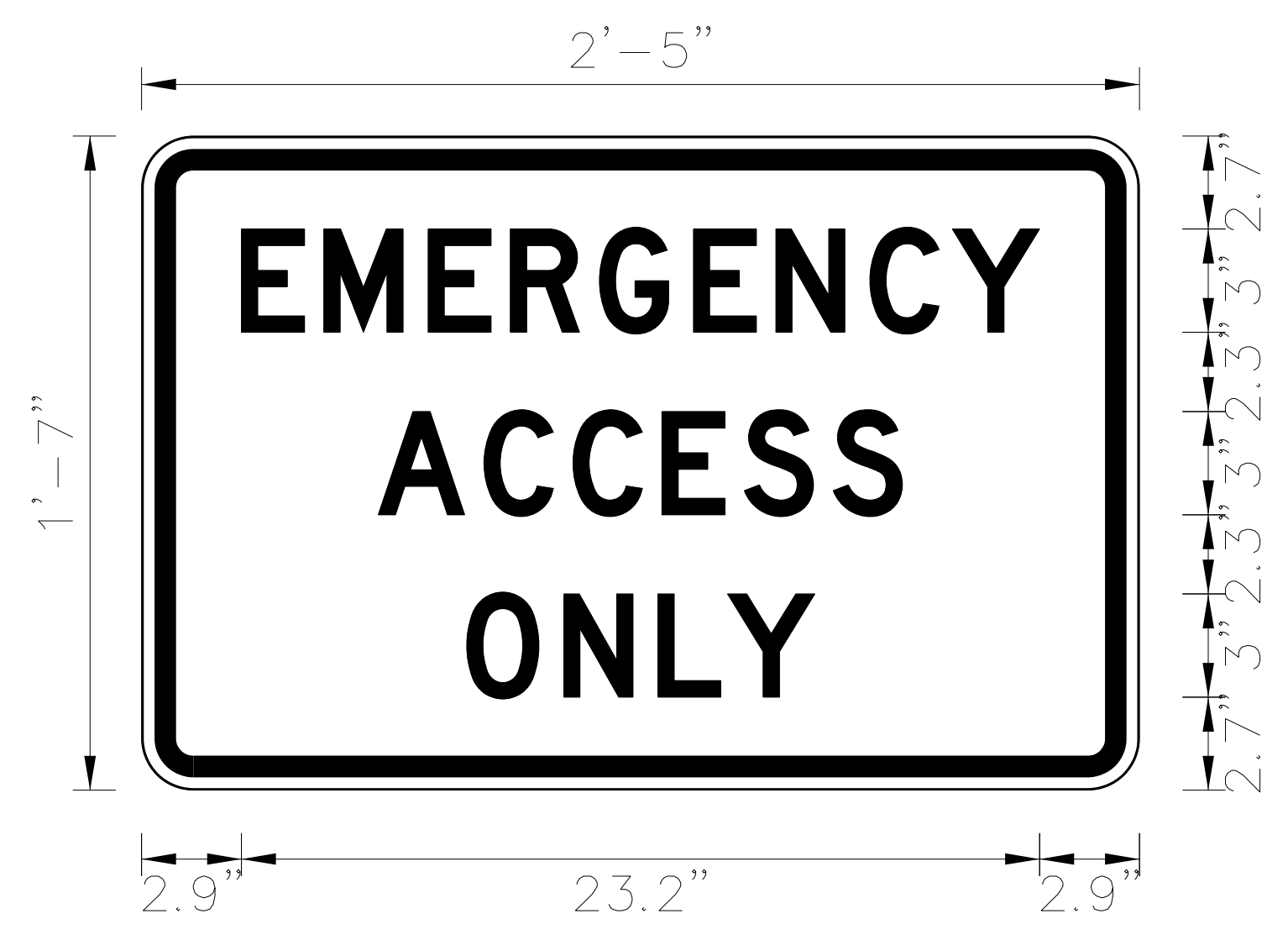
SIGN NUMBER: SP1
 TYPE: D
 QUANTITY: 2
 SIGN WIDTH: 2'-5"
 HEIGHT: 1'-7"
 TOTAL AREA: 3.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.38"
 WIDTH: 0.63"
 RADII: 1.13"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: White
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.063" (1.6 mm) ALUMINUM
 0.080" (2.0 mm) ALUMINUM
 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R. KNIGHT
 PROJECT ID: U-5994
 CHECKED BY: B. EASON, PE
 LOCATION: -L- STA. 24+00
 Mar 03, 2022
 DIV: 4



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner

																				Series/Size		
																				Text Length		
E	M	E	R	G	E	N	C	Y														D
2.9	5.3	8.3	10.7	13.3	16	18.4	21.2	23.6														23.2
A	C	C	E	S	S																	D
6.9	9.9	12.5	15.1	17.5	20.1																	15.2
O	N	L	Y																			D
9.4	12.3	15	17																			10.1

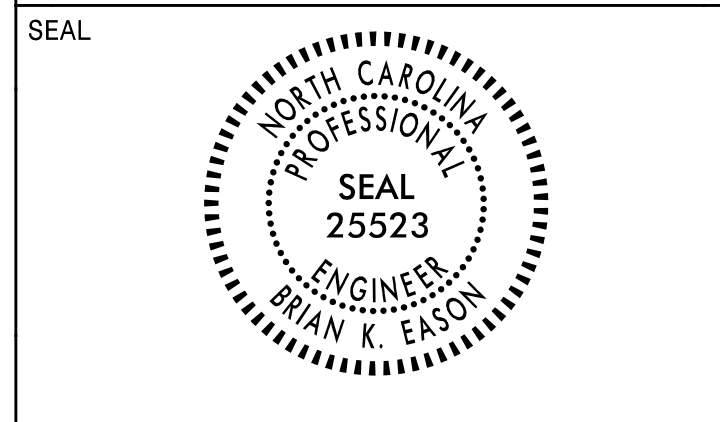
3/22/2022
 U-5994_SGN_PSH-02A.dgn
 BEASON

SIGN DESIGN

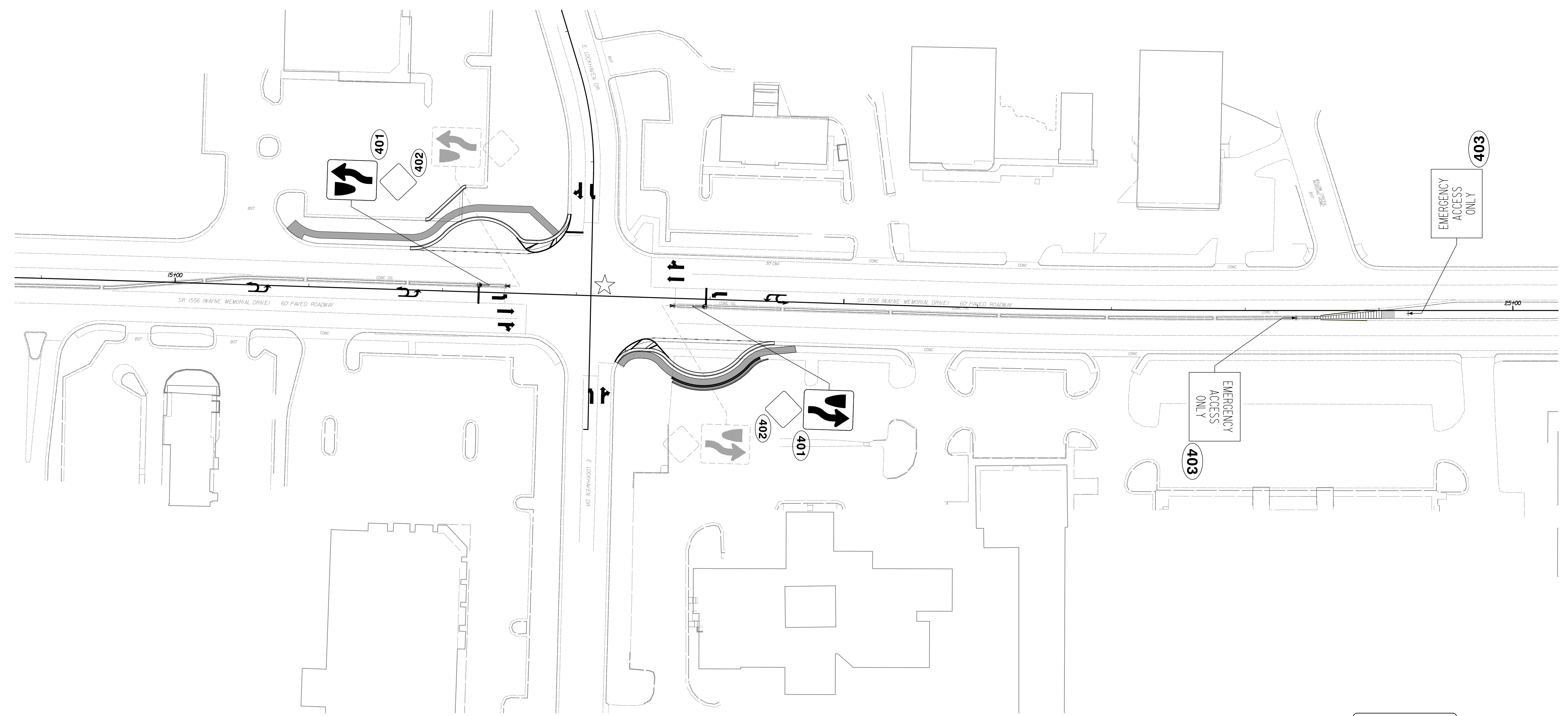
LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111

TIP NO. U-5994	SHEET NO. SIGN-3
-------------------	---------------------

APPROVED: Brian K. Eason
DESIGNED BY: SAFETY/ACCIDENT PREVENTION
 DATE: 3/22/2022



**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



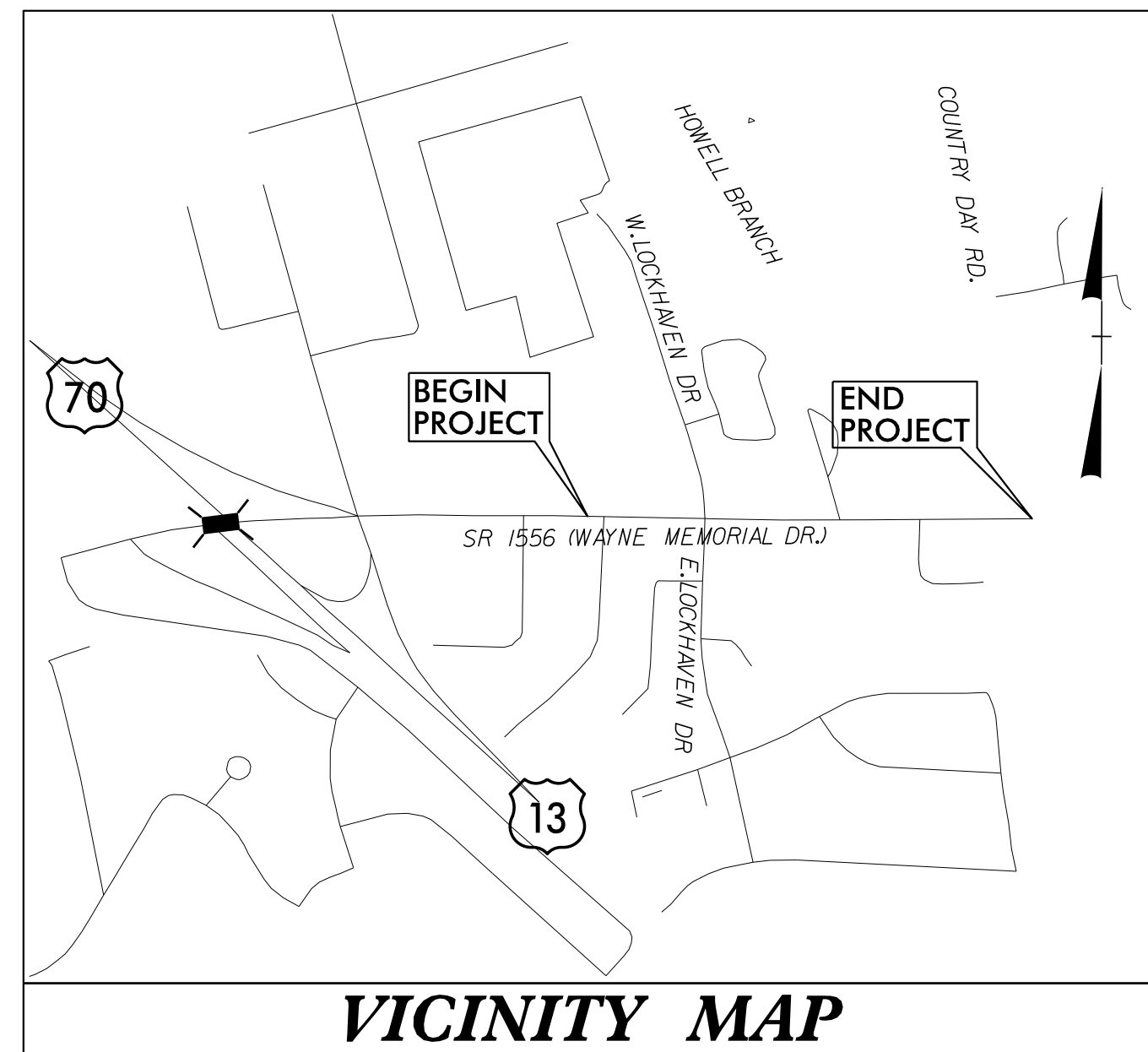
PROJECT NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. SIGN ERECTION, RELOCATED, TYPE "E" SIGN

**EXISTING AND PROPOSED
 SIGNS**

3/23/2022
 U-5994_SIGN_PSH_03.dgn
 PRNIGHT

See Sheet 1A For Index of Sheets



VICINITY MAP

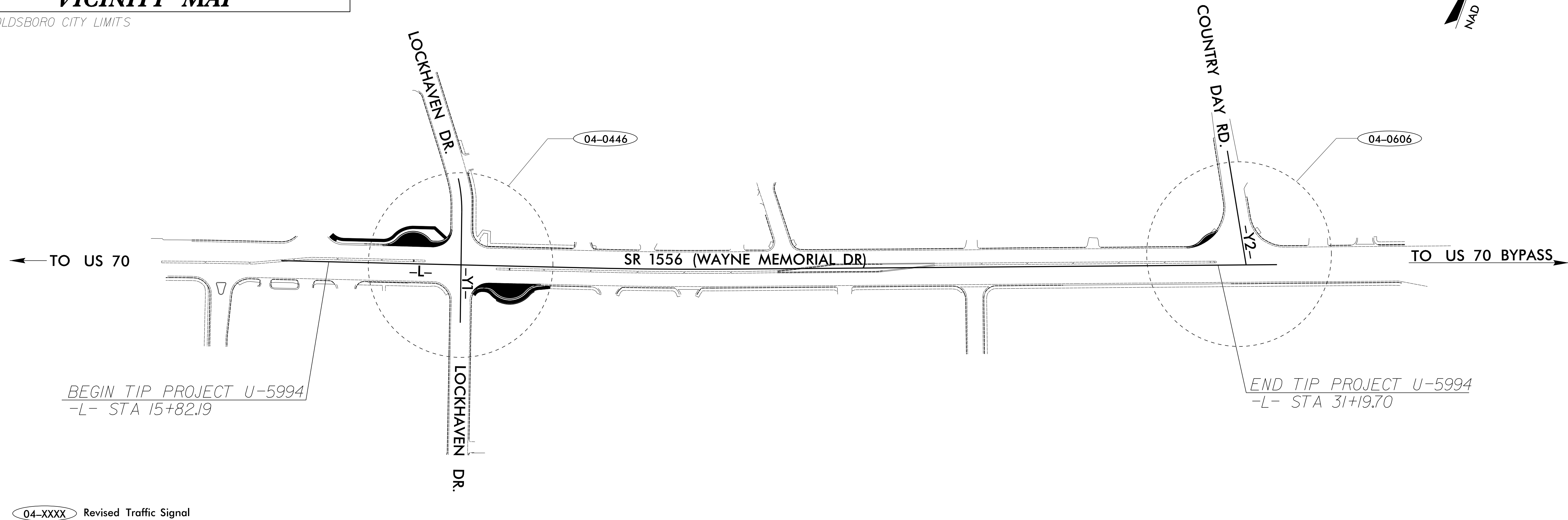
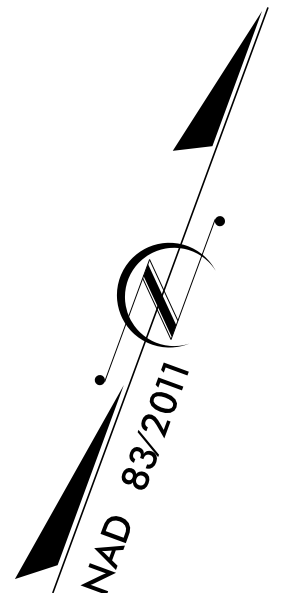
■ GOLDSBORO CITY LIMITS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAYNE COUNTY

**LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT
LOCKHAVEN DRIVE AND COUNTRY DAY ROAD**

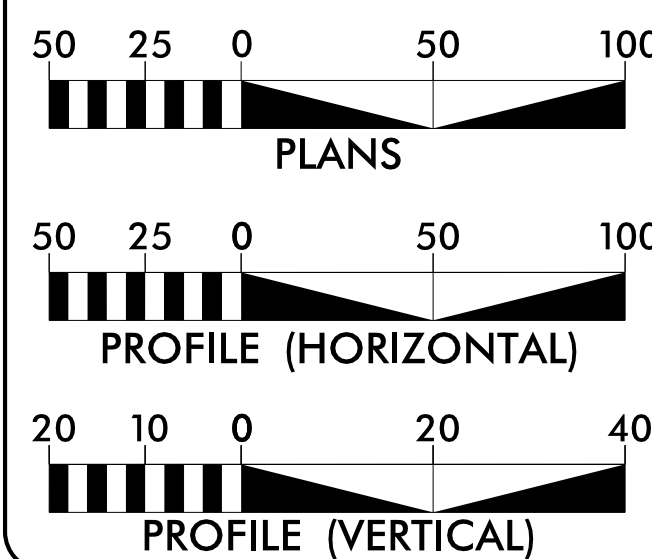
TYPE OF WORK: TRAFFIC SIGNALS



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT: TIP PROJECT: U-5994

GRAPHIC SCALES



Index of Plans

Sheet #	Reference #	Location/Description
Sig. 1	-----	Title Sheet
Sig. 2.0-2.2	04-0446	SR 1556 (Wayne Memorial Drive) at Lockhaven Drive
Sig. 3.0-3.2	04-0606	SR 1556 (Wayne Memorial Drive) at SR 1569 (Country Day Road)

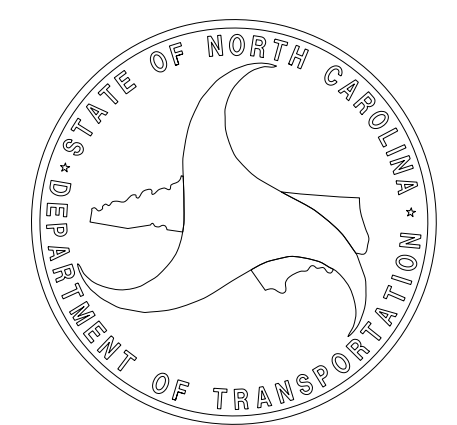
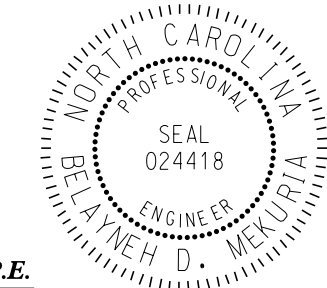
Prepared in the Office of:

ME
MEKURIA ENGINEERING, INC
2517 FARLOW GAP LANE
Raleigh, North Carolina 27603

PLANS PREPARED FOR:
TRANSPORTATION MOBILITY AND SAFETY DIVISION
ZACHARY LITTLE, P.E. - EASTERN REGION SIGNALS ENGINEER

**SIGNAL DESIGN
ENGINEER**

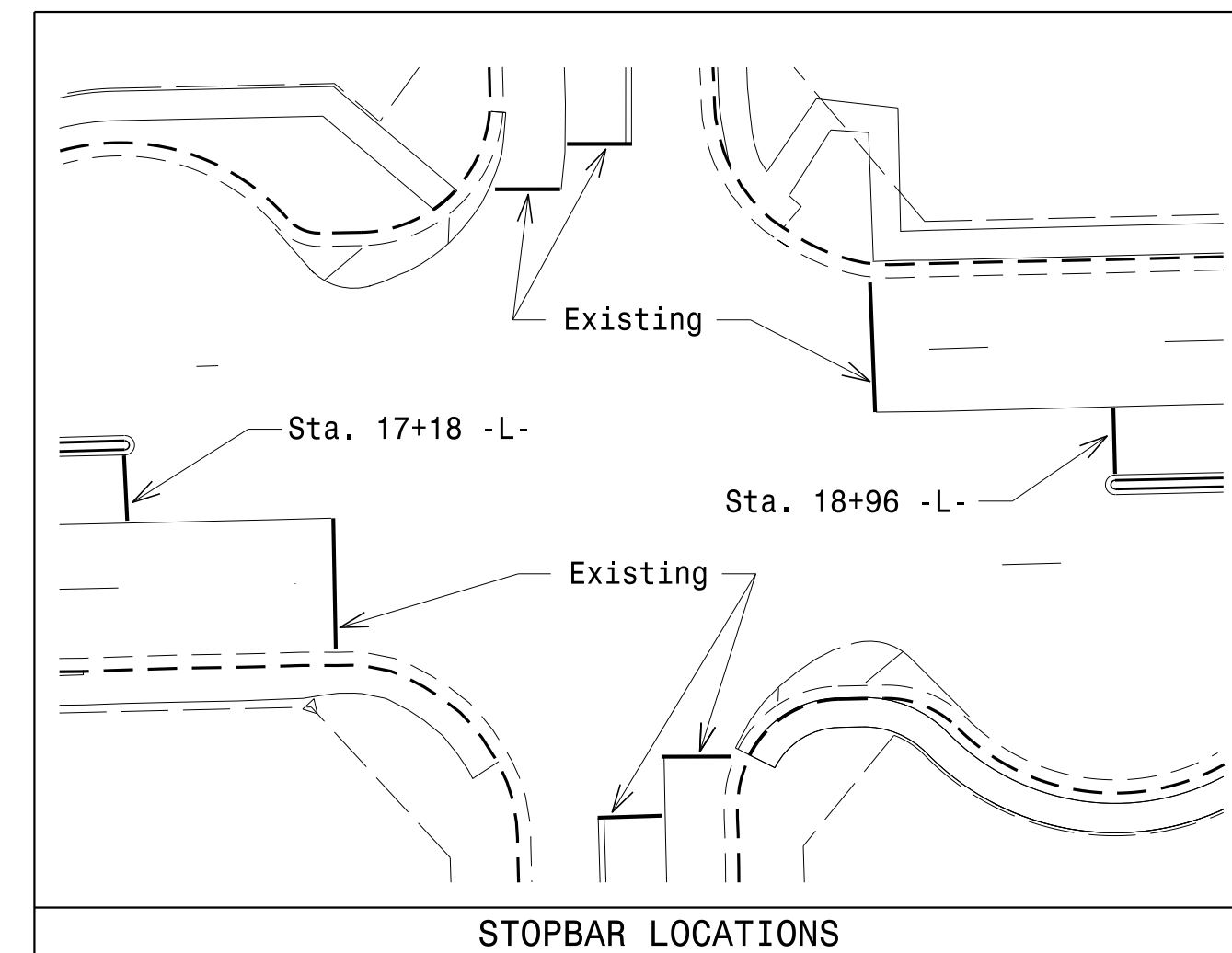
2/25/2019
SIGNATURE: *Zachary Little* P.E.



5 Phase Fully Actuated Goldsboro City System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
6. Controller Asset 0446.

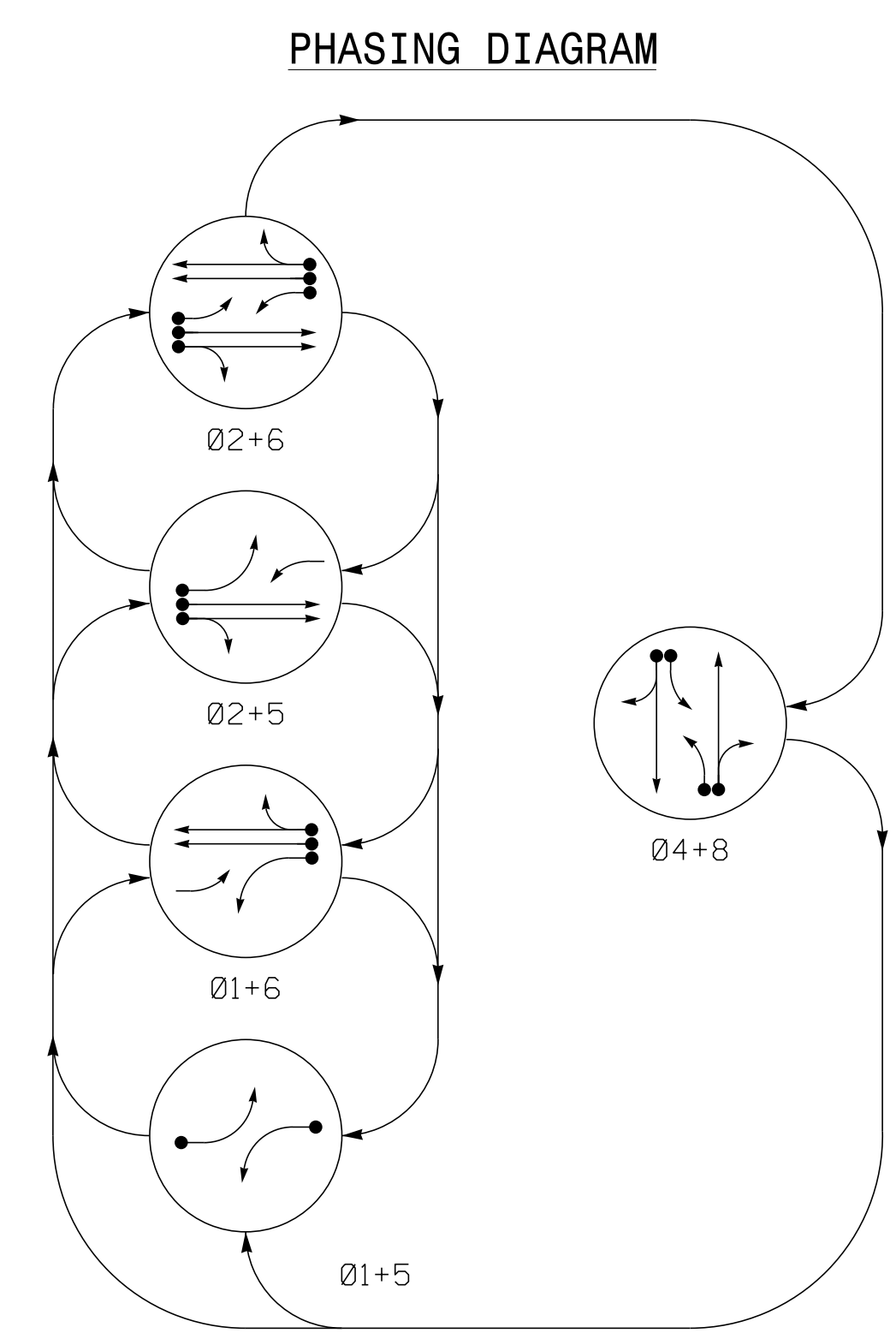
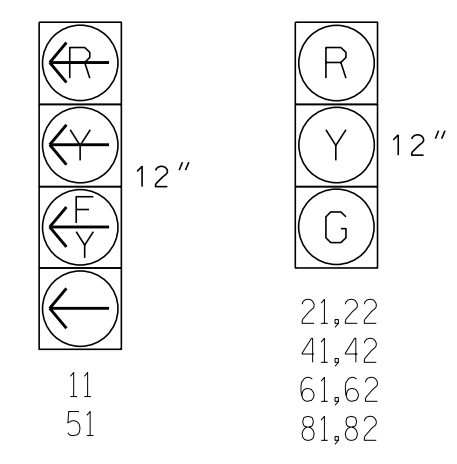


LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING					SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME			DELAY TIME
1A	6X40	0	2-4-2	Y	1	Y	Y	-	-	15	-	-
2A,2B	6X6	70	4	-	2	Y	Y	-	-	-	-	-
4A	6X60	0	2-4-2	-	4	Y	Y	-	-	3	-	-
4B	6X60	0	2-4-2	-	4	Y	Y	-	-	10	-	-
5A	6X40	0	2-4-2	Y	5	Y	Y	-	-	15	-	-
6A,6B	6X6	70	4	-	6	Y	Y	-	-	-	-	-
8A	6X60	0	2-4-2	-	8	Y	Y	-	-	3	-	-
8B	6X60	0	2-4-2	-	8	Y	Y	-	-	10	-	-
S01	6X6	+170	4	Y	-	-	-	-	-	-	Y	-
S02	6X6	+170	4	Y	-	-	-	-	-	-	Y	-

SIGNAL FACE	PHASE				
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8
11	←	←	←	←	←
21,22	R	R	G	G	R
41,42	R	R	R	R	G
51	←	←	←	←	←
61,62	R	G	R	G	R
81,82	R	R	R	R	G

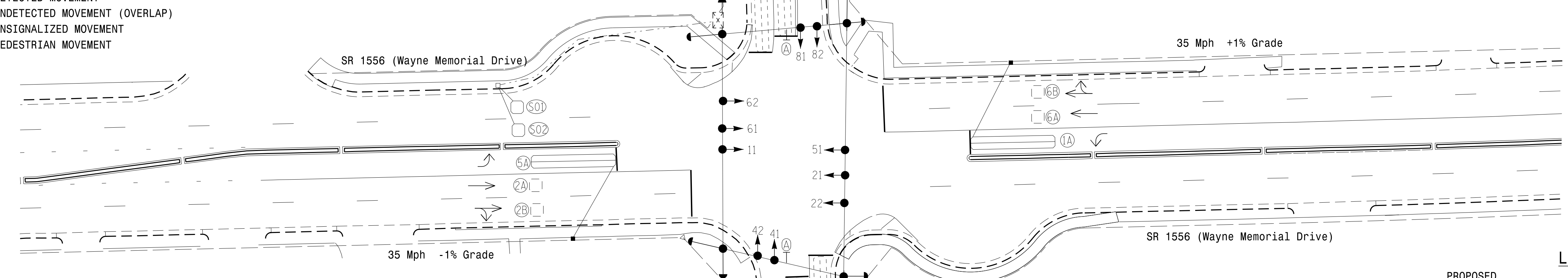
SIGNAL FACE I.D.

All Heads L.E.D.



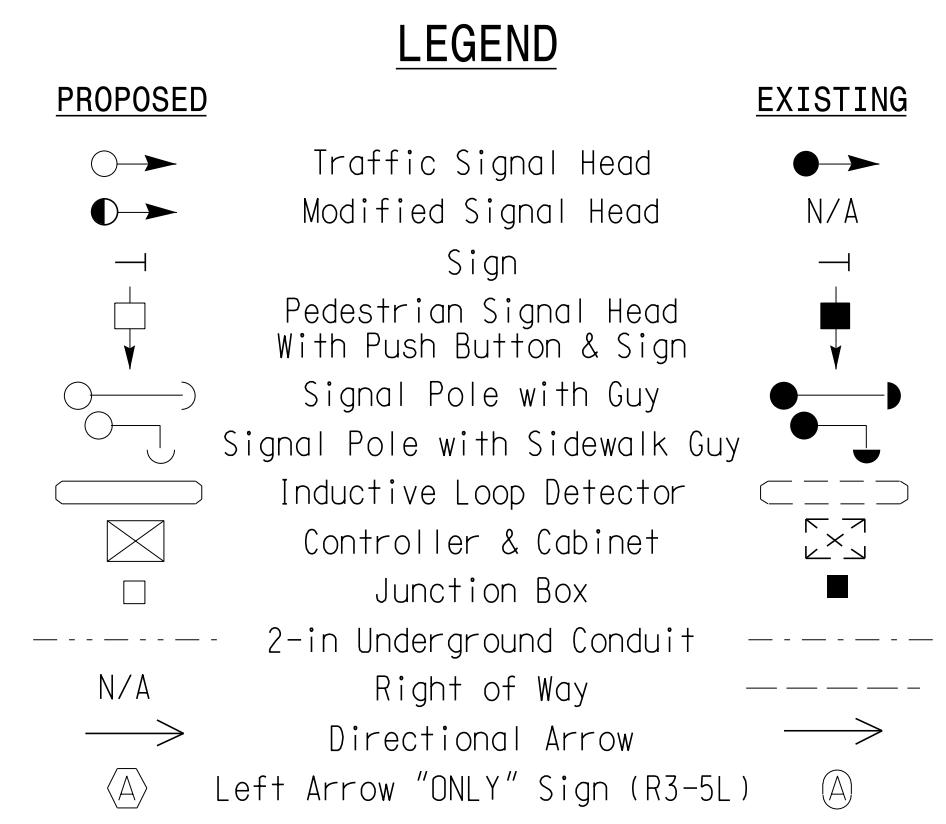
PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT



FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1 *	7	12	7	7	12	7
Extension 1 *	2.0	5.0	2.0	2.0	5.0	2.0
Max Green 1 *	15	50	25	15	50	25
Yellow Clearance	3.0	3.9	3.2	3.0	3.9	3.2
Red Clearance	3.4	2.5	2.2	3.4	2.5	2.5
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation *	-	-	-	-	-	-
Max Variable Initial *	-	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-	-
Time To Reduce *	-	-	-	-	-	-
Minimum Gap	-	-	-	-	-	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



Signal Upgrade

Prepared in the Offices of:

MEKURIA ENGINEERING, INC
 P. O. Box 10505
 Raleigh, North Carolina 27605
 Phone Number: (919)-833-8743

SR 1556 (Wayne Memorial Drive) at Lockhaven Drive

Division 4 Wayne County Goldsboro

PLAN DATE: June 2018 REVIEWED BY: B. Mekuria
 PREPARED BY: B.E. Wynn REVIEWED BY:

REVISIONS: _____ INIT: _____ DATE: _____

SCALE: 1"=30'

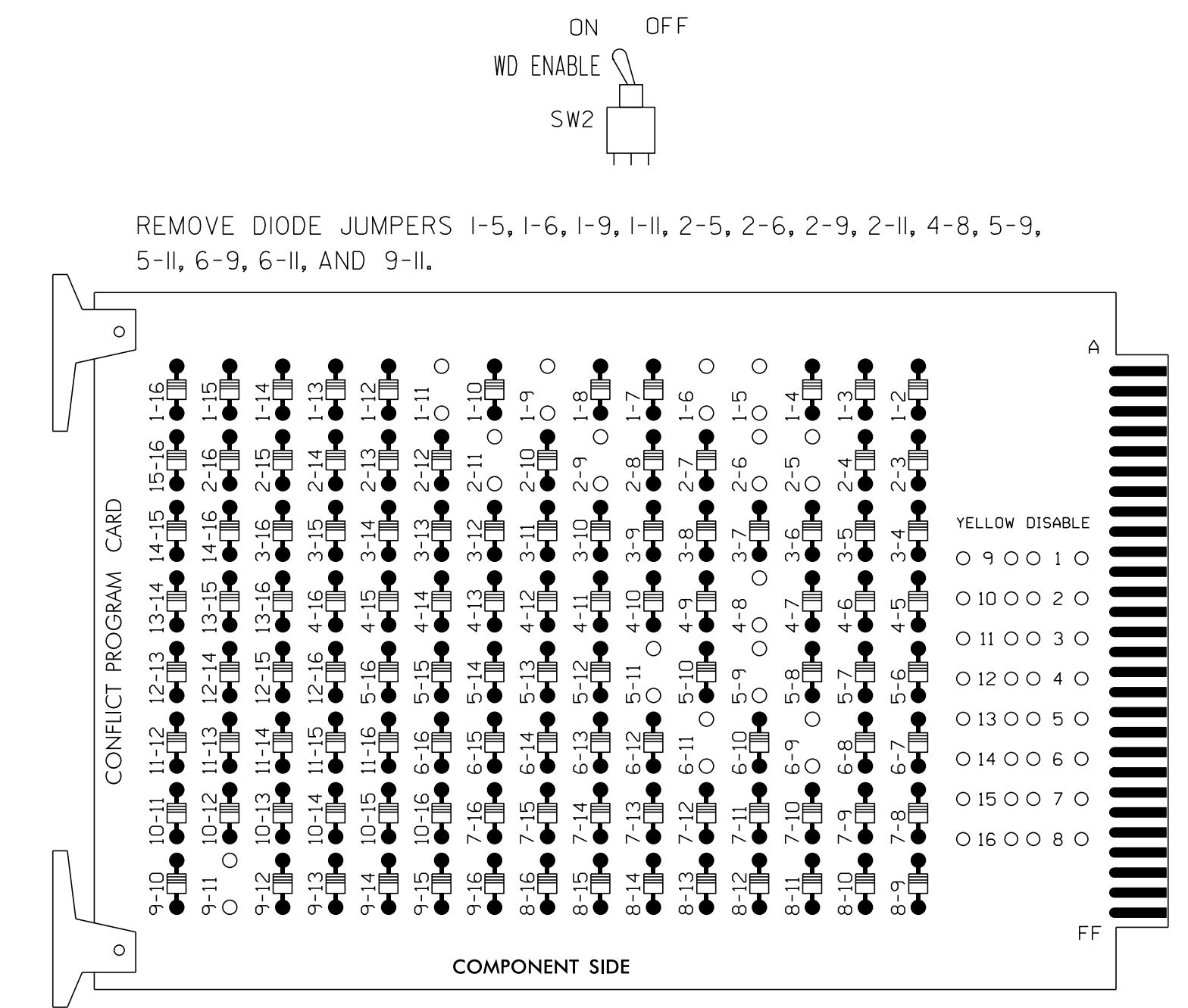
2/25/2019

SIG. INVENTORY NO. 04-0446

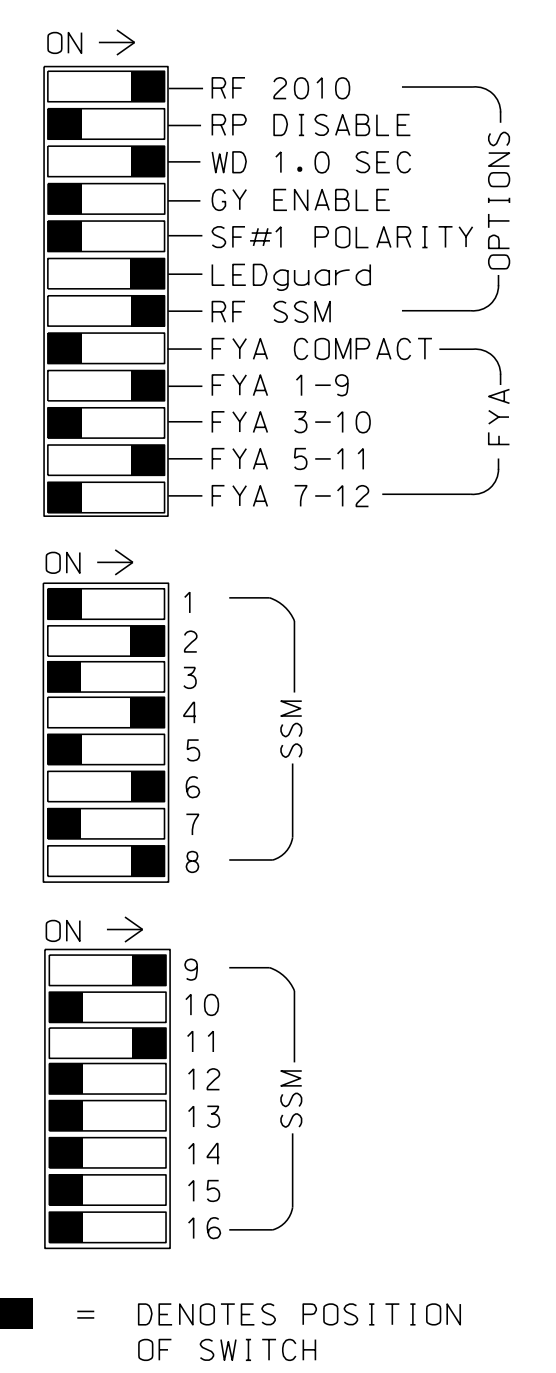
25-FEB-2019 13:45 ***2000p001.cad2018 - SIGNAL DESIGN PROJECTS-U-5994 - Goldsboro-061.gno1 - desi.gns4040446.s1.g.dsn_2018xxxx.dgn BMEKURIA

EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



- NOTES:
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
 - Make sure jumpers SEL2-SEL5 are present on the monitor board.



NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- To prevent red failures on unused monitor channels, see Red Monitor Board Programming Detail this sheet.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
- The cabinet and controller are part of the Goldsboro City System.

EQUIPMENT INFORMATION

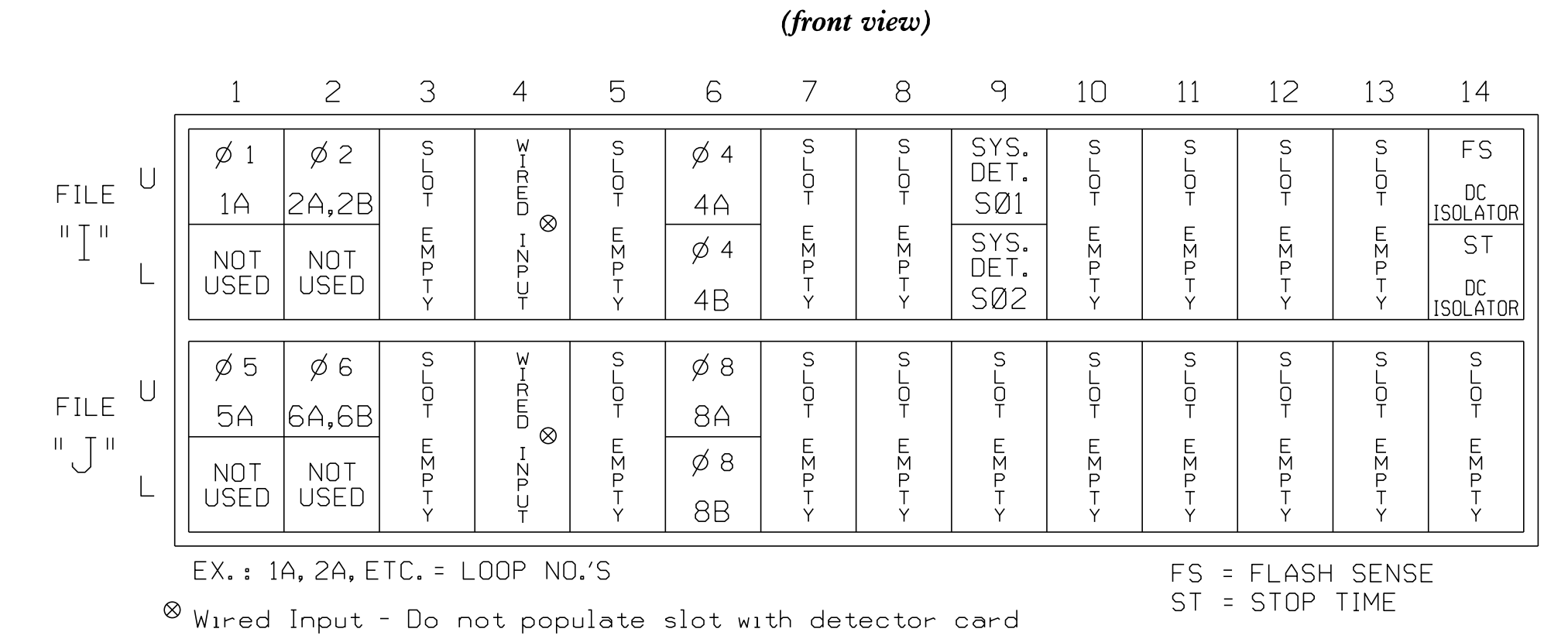
CONTROLLER.....2070L
 CABINET.....McCAIN/CONTROL TECHNOLOGIES (DWG.NO.9500-332 W/ AUX-NCDOT)
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 (12-STD, 6-AUX)
 LOAD SWITCHES USED.....S1,S2,S4,S5,S6,S8,S9,S12
 PHASES USED.....1,2,4,5,6,8
 OVERLAP A.....1+2
 OVERLAP B.....NONE
 OVERLAP C.....5+6
 OVERLAP D.....NONE

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	NU	NU	41,42	NU	51	61,62	NU	81,82	NU	11	NU	NU	51	NU	NU	NU
RED		128			101			134			107							
YELLOW	*	129			102		*	135			108							
GREEN		130			103			136			109							
RED ARROW															A121		A114	
YELLOW ARROW															A122		A115	
FLASHING YELLOW ARROW															A123		A116	
GREEN ARROW	127							133										

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ★ See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT

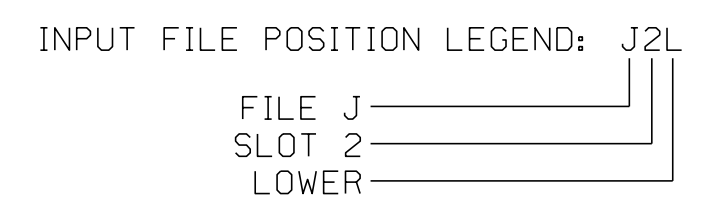


INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A ¹	TB2-1,2	J1U	56	18	1	1	Y	Y			15
	-	J4U	48	10	26	6	Y	Y			
2A,2B	TB2-5,6	J2U	39	1	2	2	Y	Y			
4A	TB4-9,10	J6U	41	3	4	4	Y	Y			3
4B	TB4-11,12	J6L	45	7	14	4	Y	Y			10
5A ²	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	J4U	47	9	22	2	Y	Y			
6A,6B	TB3-5,6	J2U	40	2	6	6	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			3
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			10
* S01	TB6-9,10	J9U	60	22	11	SYS					
* S02	TB6-11,12	J9L	62	24	13	SYS					

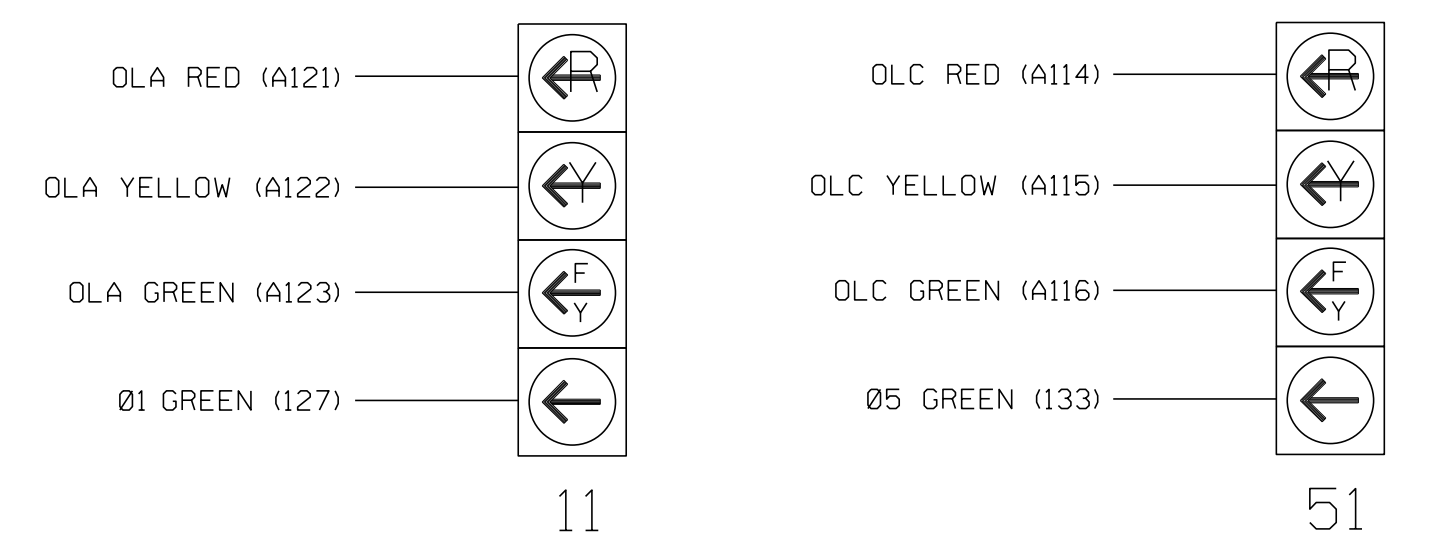
- Add jumper from J1-W to J4-W, on rear of input file.
- Add jumper from J1-W to J4-W, on rear of input file.

* System detector only. Remove the vehicle phase assigned to this detector in the default programming.



FYA SIGNAL WIRING DETAIL

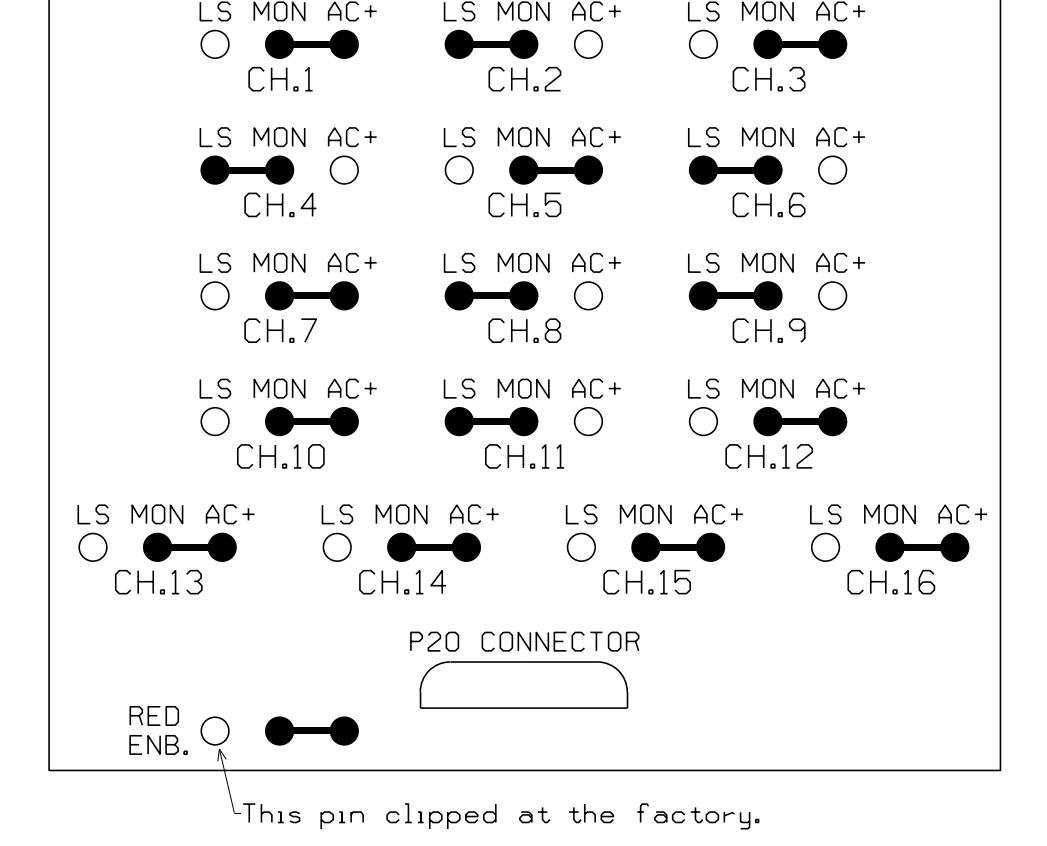
(wire signal heads as shown)



NOTE
 The sequence display for signal heads 11 and 51 requires special logic programming. See sheet 2 for programming instructions.

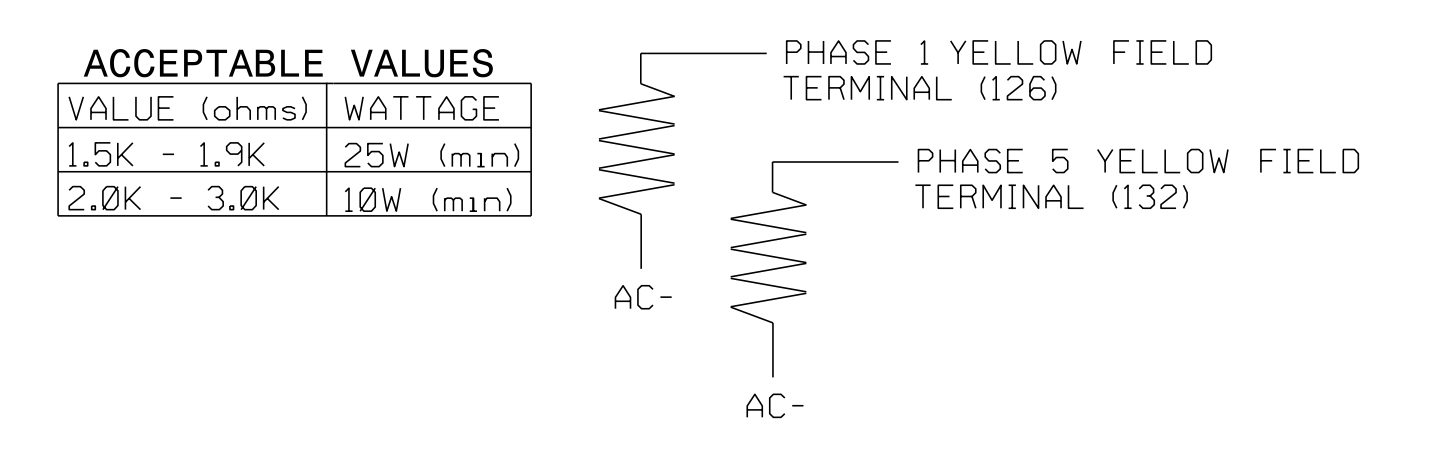
RED MONITOR BOARD PROGRAMMING

(position jumpers as shown below)



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



Signal Upgrade - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SR 1556 (Wayne Memorial Drive) at Lockhaven Drive

Division 4 Wayne County Goldsboro

PLAN DATE: June 2018 REVIEWED BY: J O Deaton

PREPARED BY: M W Yalch REVIEWED BY:

REVISIONS: INIT. DATE

DocuSigned by: James O. Deaton 2/25/2019

MEKURIA ENGINEERING, INC
 P.O. Box 10505
 Raleigh, North Carolina 27605
 Phone Number (919) 539-6070

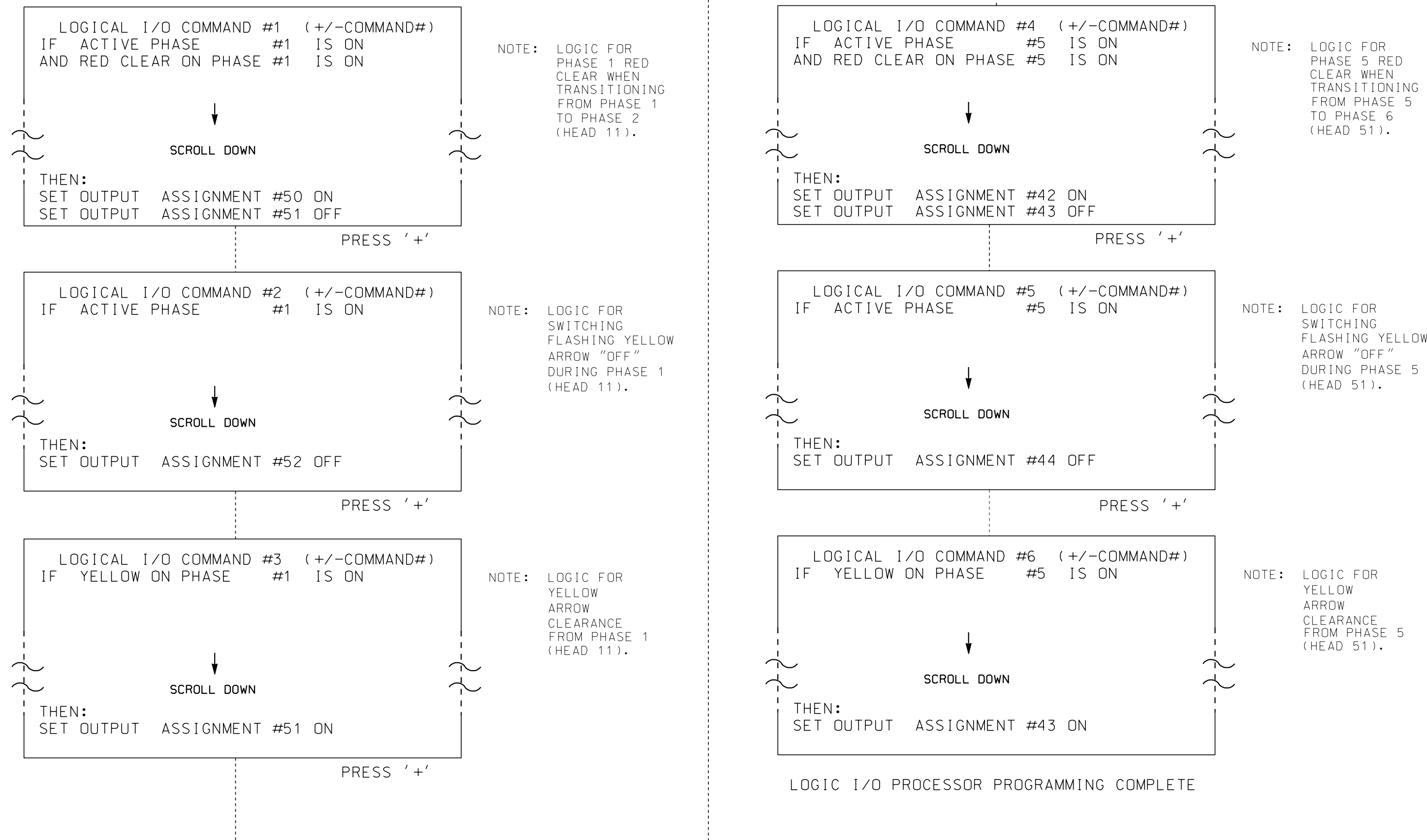
750 N. Greenfield Pkwy, Garner, NC 27529

SIG. INVENTORY NO. 04-0446

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE

(program controller as shown below)

- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1, 2, 3, 4, 5 AND 6.
- FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).



OUTPUT REFERENCE SCHEDULE

OUTPUT 42 = Overlap C Red
 OUTPUT 43 = Overlap C Yellow
 OUTPUT 44 = Overlap C Green
 OUTPUT 50 = Overlap A Red
 OUTPUT 51 = Overlap A Yellow
 OUTPUT 52 = Overlap A Green

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

```

PAGE 1: VEHICLE OVERLAP 'A' SETTINGS
PHASE:      !12345678910111213141516
VEH OVL PARENTS: !XX
VEH OVL NOT VEH: !
VEH OVL NOT PED: !
VEH OVL GRN EXT: !
STARTUP COLOR: _ RED _ YELLOW _ GREEN
FLASH COLORS:  _ RED _ YELLOW X GREEN
SELECT VEHICLE OVERLAP OPTIONS: (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
GREEN EXTENSION (0=255 SEC)...0.0
YELLOW CLEAR (0=PARENT,3=25.5 SEC)...0.0
RED CLEAR (0=PARENT,0.1=25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)...0
    
```

← NOTICE GREEN FLASH

PRESS '+' TWICE

```


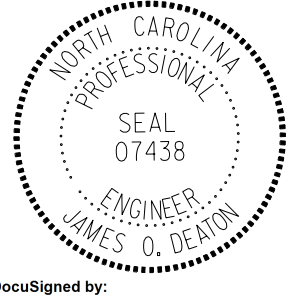

PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
PHASE:      !12345678910111213141516
VEH OVL PARENTS: ! XX
VEH OVL NOT VEH: !
VEH OVL NOT PED: !
VEH OVL GRN EXT: !
STARTUP COLOR: _ RED _ YELLOW _ GREEN
FLASH COLORS:  _ RED _ YELLOW X GREEN
SELECT VEHICLE OVERLAP OPTIONS: (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
GREEN EXTENSION (0=255 SEC)...0.0
YELLOW CLEAR (0=PARENT,3=25.5 SEC)...0.0
RED CLEAR (0=PARENT,0.1=25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)...0
    
```

← NOTICE GREEN FLASH

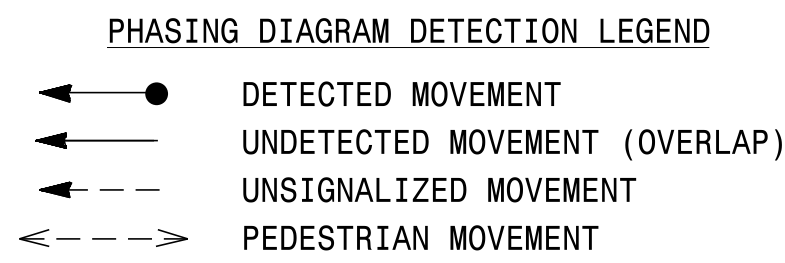
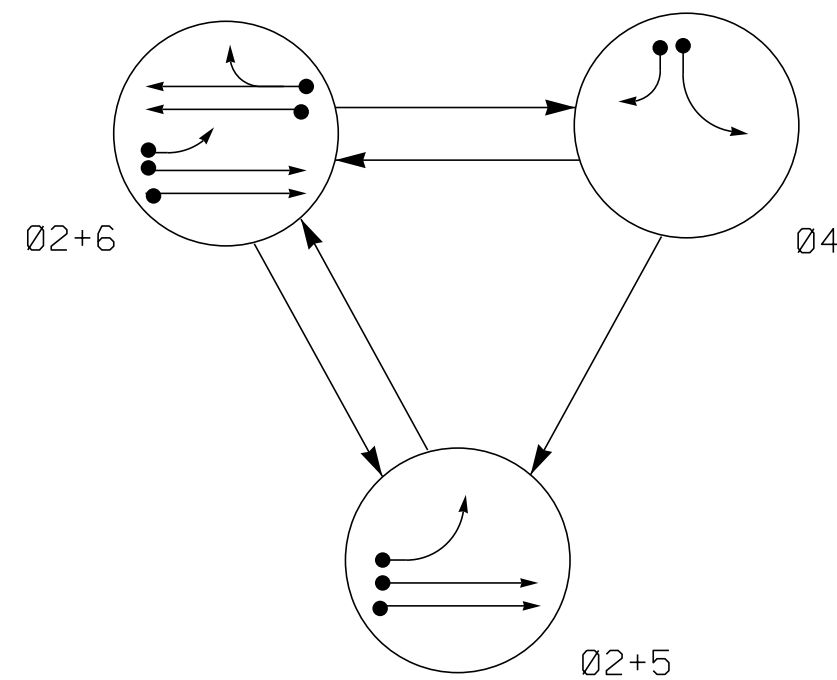
OVERLAP PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
 THE SIGNAL DESIGN: 04-0446
 DESIGNED: June 2018
 SEALED: February 25, 2019
 REVISED: N/A

Signal Upgrade - Sheet 2 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	SR 1556 (Wayne Memorial Drive) at Lockhaven Drive	SEAL  SEAL 07438 ENGINEER JAMES O. DEATON
 MEKURIA ENGINEERING, INC P. O. Box 10505 Raleigh, North Carolina 27605 Phone Number (919) 539-6070	Division 4 Wayne County Goldsboro PLAN DATE: June 2018 REVIEWED BY: J O Deaton PREPARED BY: M W Yalch REVIEWED BY:	DocuSigned by: James O. Deaton 2/25/2019 DATE
REVISIONS INIT. DATE		SIG. INVENTORY NO. 04-0446

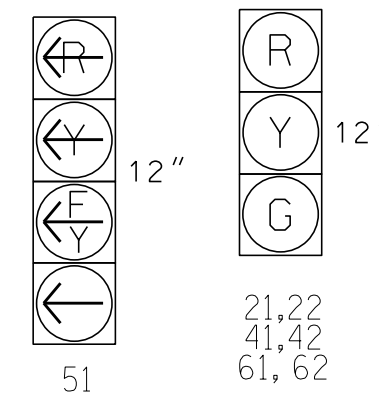
PHASING DIAGRAM



SIGNAL FACE	PHASE			
	Ø 2 + 5	Ø 2 + 6	Ø 4	F
21, 22	G	G	R	Y
41, 42	R	R	G	R
51	←	←	←	←
61, 62	R	G	R	Y

SIGNAL FACE I.D.

All Heads L.E.D.



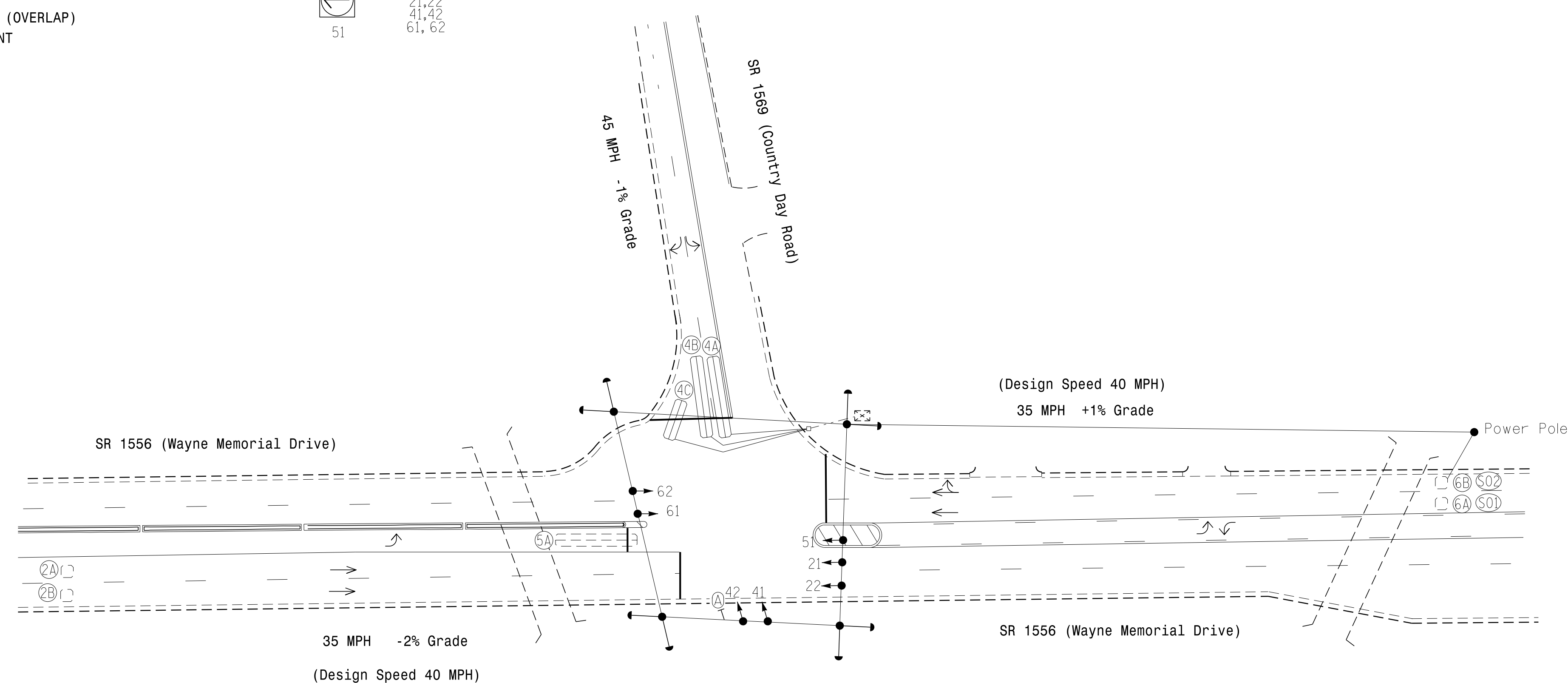
OASIS 2070L LOOP & DETECTOR INSTALLATION

LOOP	INDUCTIVE LOOPS				DETECTOR PROGRAMMING							
	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A, 2B	6X6	300	4	-	2	Y	Y	-	-	-	-	-
4A	6X40	+10	2-4-2	Y	4	Y	Y	-	-	5	-	-
4B	6X40	+10	2-4-2	Y	4	Y	Y	-	-	10	-	-
4C	6X20	+10	2-4-2	Y	4	Y	Y	-	-	10	-	-
5A	6X40	+5	2-4-2	-	5	Y	Y	-	-	15	-	-
6A/S01	6X6	300	4	-	2	Y	Y	Y	-	3	-	-
6B/S02	6X6	300	4	-	6	Y	Y	-	-	-	-	Y

3 Phase Fully Actuated Goldsboro City System

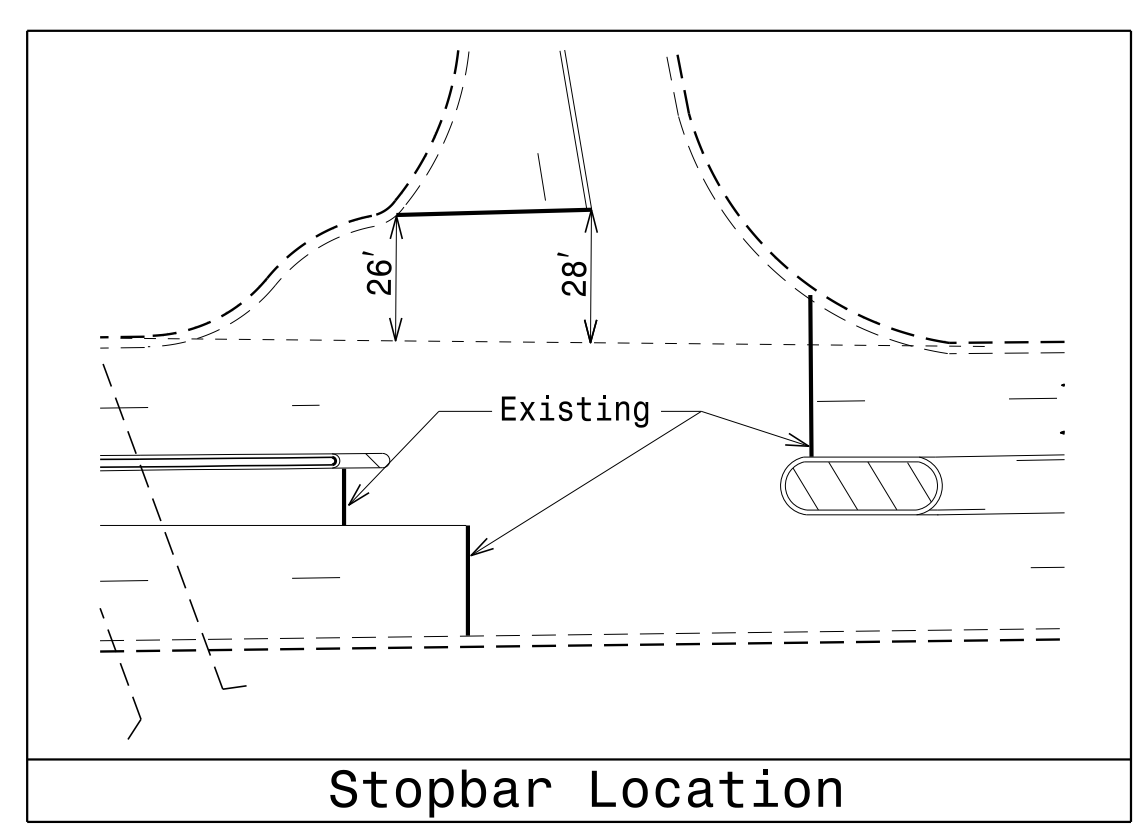
NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Phase 5 may be lagged.
- Set all detector units to presence mode.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Controller Asset # 0606.



FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	12	7	7	12
Extension 1 *	6.0	2.0	2.0	6.0
Max Green 1 *	100	25	15	100
Yellow Clearance	4.3	3.0	3.0	4.3
Red Clearance	1.6	2.8	2.4	1.6
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	2.0	-	-	1.5
Max Variable Initial *	34	-	-	34
Time Before Reduction *	20	-	-	20
Time To Reduce *	50	-	-	50
Minimum Gap	3.0	-	-	3.0
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



LEGEND

PROPOSED	EXISTING
○ → Traffic Signal Head	● → N/A
○ → Modified Signal Head	○ → N/A
⊥ Sign	⊥ Sign
⊥ Pedestrian Signal Head With Push Button & Sign	⊥ Pedestrian Signal Head With Push Button & Sign
○ ⊥ Signal Pole with Guy	○ ⊥ Signal Pole with Guy
○ ⊥ Signal Pole with Sidewalk Guy	○ ⊥ Signal Pole with Sidewalk Guy
⊠ Inductive Loop Detector	⊠ Inductive Loop Detector
□ Controller & Cabinet	□ Controller & Cabinet
□ Junction Box	□ Junction Box
--- 2-in Underground Conduit	--- 2-in Underground Conduit
--- Right of Way	--- Right of Way
→ Directional Arrow	→ Directional Arrow
(A) "Right Turn on Red Must Yield To U Turn" Sign	(A) "Right Turn on Red Must Yield To U Turn" Sign

Signal Upgrade

Prepared in the Offices of:

ME

MEKURIA ENGINEERING, INC
P. O. Box 10505
Raleigh, North Carolina 27605
Phone Number: (919) 833-8743

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 0 40
1" = 40'

SR 1556 (Wayne Memorial Drive)
at
SR 1569 (Country Day Road)

Division 4 Wayne County Goldsboro

PLAN DATE: June 2018 REVIEWED BY: B. Mekuria

PREPARED BY: B.E. Wynn REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL

STATE OF NORTH CAROLINA

PROFESSIONAL ENGINEER

B. MEKURIA

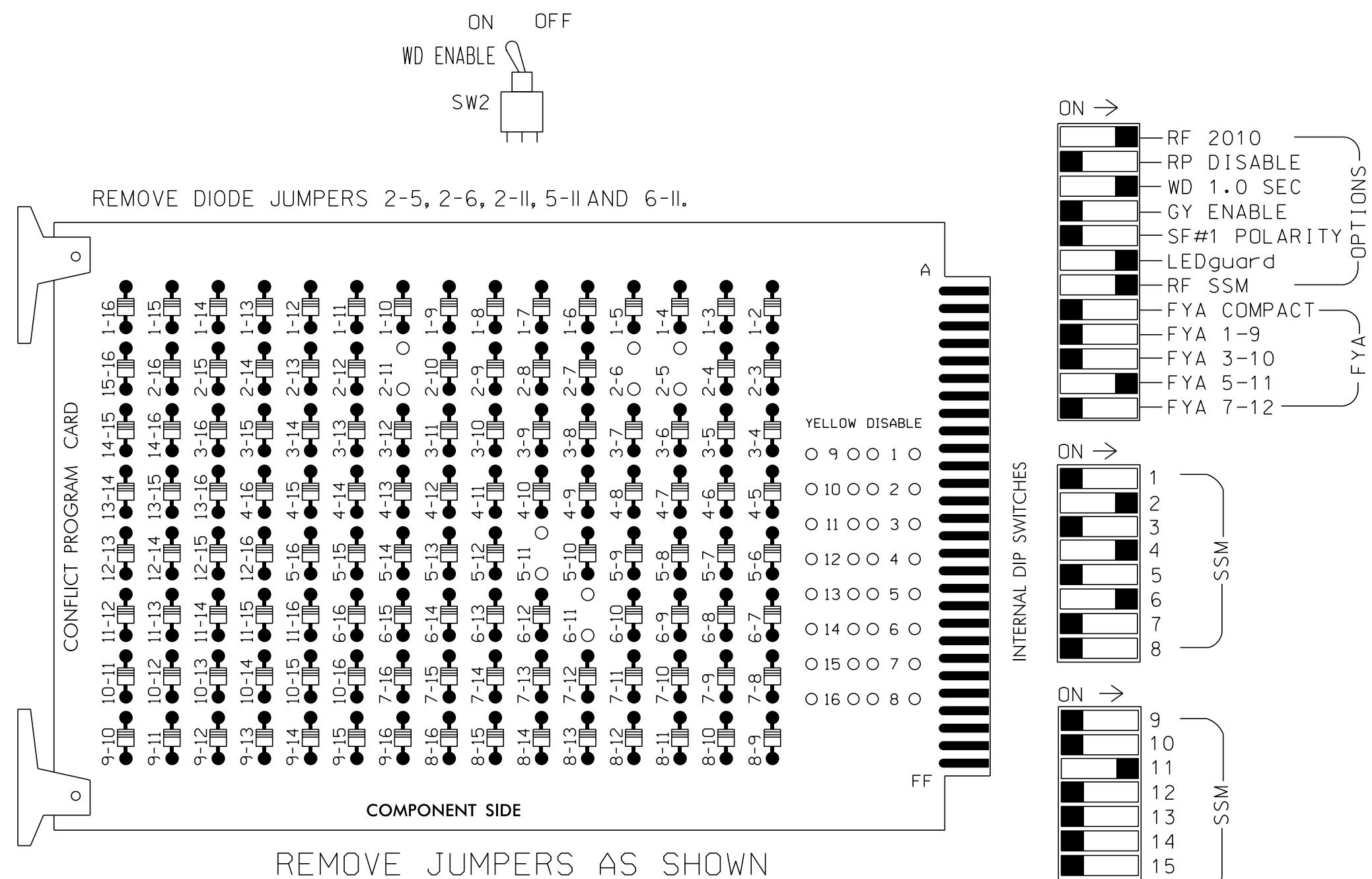
024418

DocuSigned by:
B. Mekuria 2/25/2019

SIG. INVENTORY NO. 04-0606

EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Make sure jumpers SEL2-SEL5 are present on the monitor board.

NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. To prevent red failures on unused monitor channels, see Red Monitor Board Programming Detail this sheet.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Variable Initial and Gap Reduction.
5. Program phases 2 and 6 for Start Up In Green.
6. Program phases 2 and 6 for Yellow Flash.
7. The cabinet and controller are part of the Goldsboro City System.

EQUIPMENT INFORMATION

CONTROLLER.....2070L
 CABINET.....McCain/CONTROL TECHNOLOGIES (DWG.NO.9500-332-NCDDOT) /W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S2,S4,S5,S6,S12
 PHASES USED.....2,4,5,6
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14	
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	9	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	51*	61,62	NU	NU	NU	NU	NU	NU	NU	51*	NU	NU	
RED		128			101			134											
YELLOW		129			102		*	135											
GREEN		130			103			136											
RED ARROW																		A114	
YELLOW ARROW																		A115	
FLASHING YELLOW ARROW																		A116	
GREEN ARROW								133											

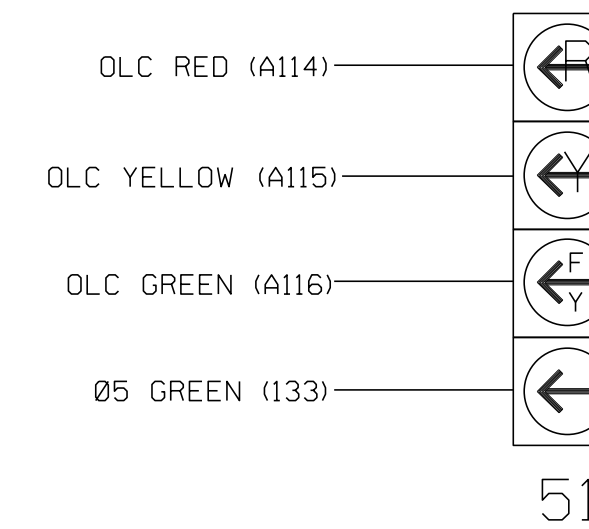
NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail below.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE

1. The sequence display for this signal requires special logic programming. See sheet 2 of 2 for programming instructions.

INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 2	∅ 2	∅ 2	∅ 2	∅ 2	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4
L	2A,2B	2A,2B	2A,2B	2A,2B	2A,2B	4A	4C	4A	4C	4A	4C	4A	4C	4A
U	∅ 5	∅ 5	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS
L	5A	5A	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01	6A/S01
U	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS
L	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02	6B/S02

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
 ST = STOP TIME

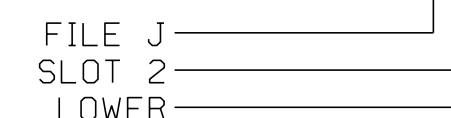
⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A,2B	TB2-5,6	I2U	39	1	2	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			5
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			10
4C	TB6-1,2	I7U	65	27	34	4	Y	Y			10
5A ¹	TB3-1,2	J1U	55	17	5	5	Y	Y			15
		14U	47	9	22	2	Y	Y	Y		3
6A/S01	TB3-9,10	J3U	64	26	36	6/SYS	Y	Y			
6B/S02	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y			

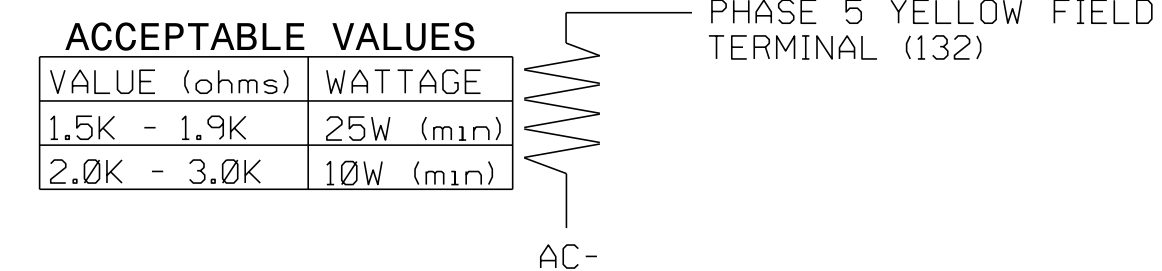
¹Add jumper from J1-W to 14-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



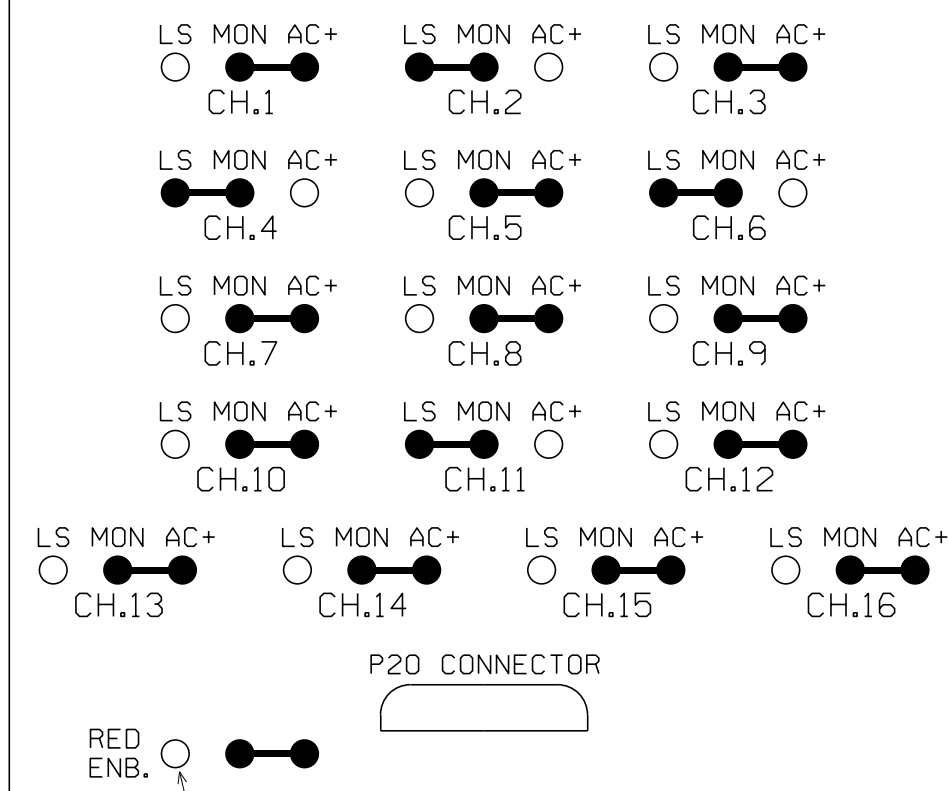
LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)



RED MONITOR BOARD PROGRAMMING

(position jumpers as shown below)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0606
 DESIGNED: June 2018
 SEALED: February 25, 2019
 REVISED: N/A

Prepared in the Offices of:

MEKURIA ENGINEERING, INC
 P. O. Box 10505
 Raleigh, North Carolina 27605
 Phone Number (919) 539-6070

Electrical Detail - Sheet 1 of 2

Prepared for the Offices of:

Division 4 Wayne Country Goldsboro

SR 1556 (Wayne Memorial Drive)
 at
 SR 1569 (Country Day Road)

PLAN DATE: June 2018 REVIEWED BY: J O Deaton
 PREPARED BY: M W Yalch REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSigned by: James O. Deaton 2/25/2019

SIG. INVENTORY NO. 04-0606

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

DocuSigned by: James O. Deaton 2/25/2019

SIG. INVENTORY NO. 04-0606

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL TO PRODUCE SPECIAL FYA-PPLT SIGNAL SEQUENCE

(program controller as shown below)

- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1, 2 AND 3.
- FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).

LOGICAL I/O COMMAND #1 (+/-COMMAND#)
IF ACTIVE PHASE #5 IS ON
AND RED CLEAR ON PHASE #5 IS ON

↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #42 ON
SET OUTPUT ASSIGNMENT #43 OFF

PRESS '+'

NOTE: LOGIC FOR PHASE 5 RED CLEAR WHEN TRANSITIONING FROM PHASE 5 TO PHASE 6 (HEAD 51).

LOGICAL I/O COMMAND #2 (+/-COMMAND#)
IF ACTIVE PHASE #5 IS ON

↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #44 OFF

PRESS '+'

NOTE: LOGIC FOR SWITCHING FLASHING YELLOW ARROW "OFF" DURING PHASE 5 (HEAD 51).

LOGICAL I/O COMMAND #3 (+/-COMMAND#)
IF YELLOW ON PHASE #5 IS ON

↓
SCROLL DOWN

THEN:
SET OUTPUT ASSIGNMENT #43 ON

NOTE: LOGIC FOR YELLOW ARROW CLEARANCE FROM PHASE 5 (HEAD 51).

LOGIC I/O PROCESSOR PROGRAMMING COMPLETE

OUTPUT REFERENCE SCHEDULE
OUTPUT 42 = Overlap C Red
OUTPUT 43 = Overlap C Yellow
OUTPUT 44 = Overlap C Green

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

PRESS '+' TWICE

```

PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
PHASE:      12345678910111213141516
VEH OVL PARENTS:  XX
VEH OVL NOT VEH:
VEH OVL NOT PED:
VEH OVL GRN EXT:
STARTUP COLOR:  _ RED  _ YELLOW  _ GREEN
FLASH COLORS:  _ RED  _ YELLOW  X GREEN
SELECT VEHICLE OVERLAP OPTIONS:  (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
GREEN EXTENSION (0=25.5 SEC)...0
YELLOW CLEAR (0=PARENT,3=25.5 SEC)...0.0
RED CLEAR (0=PARENT,0.1=25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1=16)...0


```

← NOTICE GREEN FLASH

OVERLAP PROGRAMMING COMPLETE

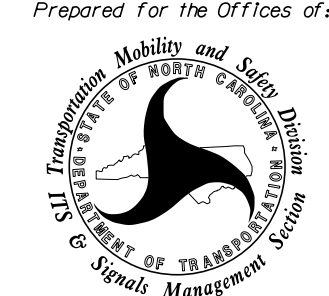

25-FEB-2019 14:08 ***700000001.C42018 - SIGNAL DESIGN PROJECTS\U-5994-Goldsboro\ME\electrical\Detail\sig04-0606e-02-218.dgn BMEkur1.g

Prepared in the Offices of:



MEKURIA ENGINEERING, INC
P. O. Box 10505
Raleigh, North Carolina 27605
Phone Number (919) 539-6070

Electrical Detail - Sheet 2 of 2

<p>ELECTRICAL AND PROGRAMMING DETAILS FOR:</p> <p style="text-align: center;">Prepared for the Offices of:</p>  <p>750 N. Greenfield Pkwy, Garner, NC 27529</p>	<p>SR 1556 (Wayne Memorial Drive) at SR 1569 (Country Day Road)</p> <p>Division 4 Wayne County Goldsboro</p> <p>PLAN DATE: June 2018 REVIEWED BY: J O Deaton</p> <p>PREPARED BY: M W Yalch REVIEWED BY:</p>	<p style="text-align: center;">SEAL</p>  <p>DocuSigned by: James O. Deaton 2/25/2019</p> <p>SIG. INVENTORY NO. 04-0606</p>
--	--	---

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0606
DESIGNED: June 2018
SEALED: February 25, 2019
REVISED: N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

09.08/99

See Sheet 1A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

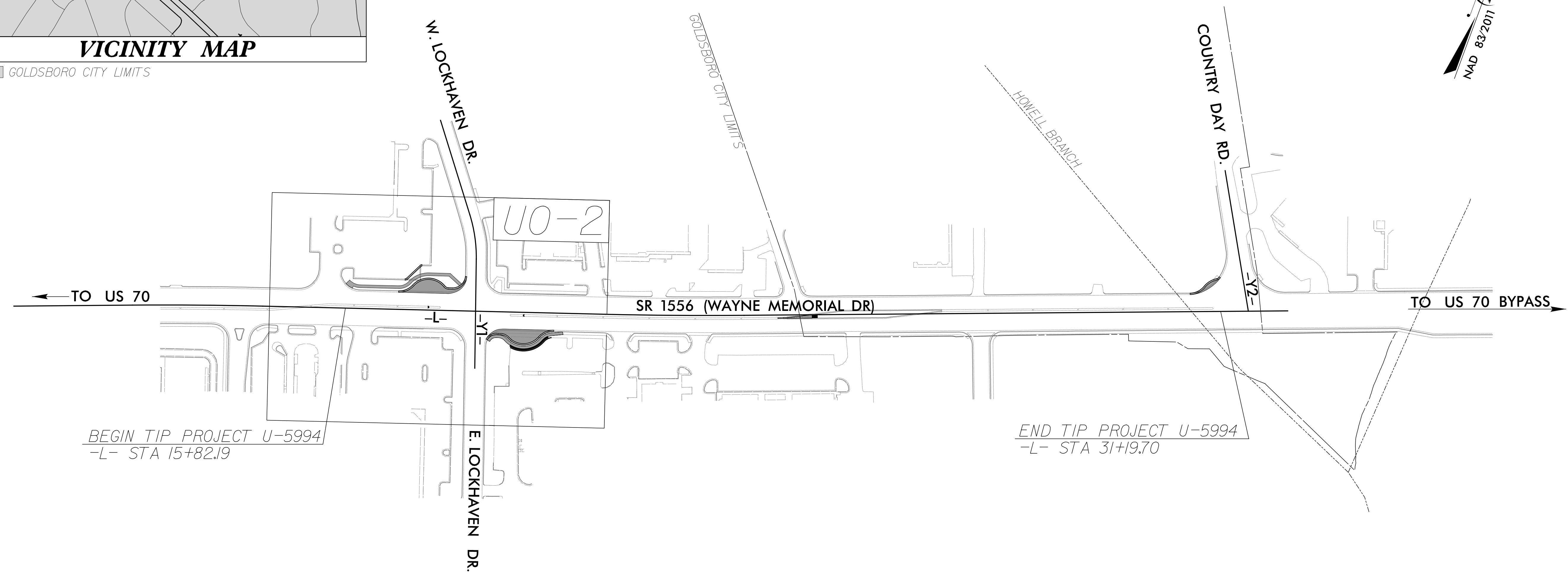
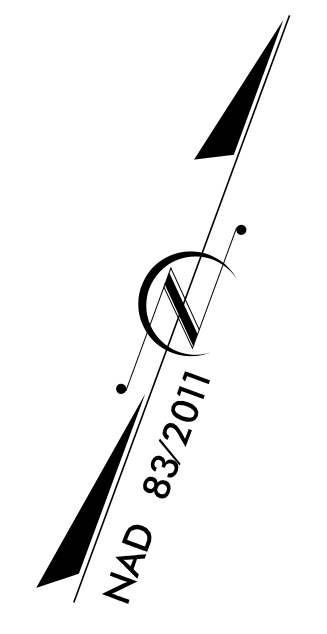
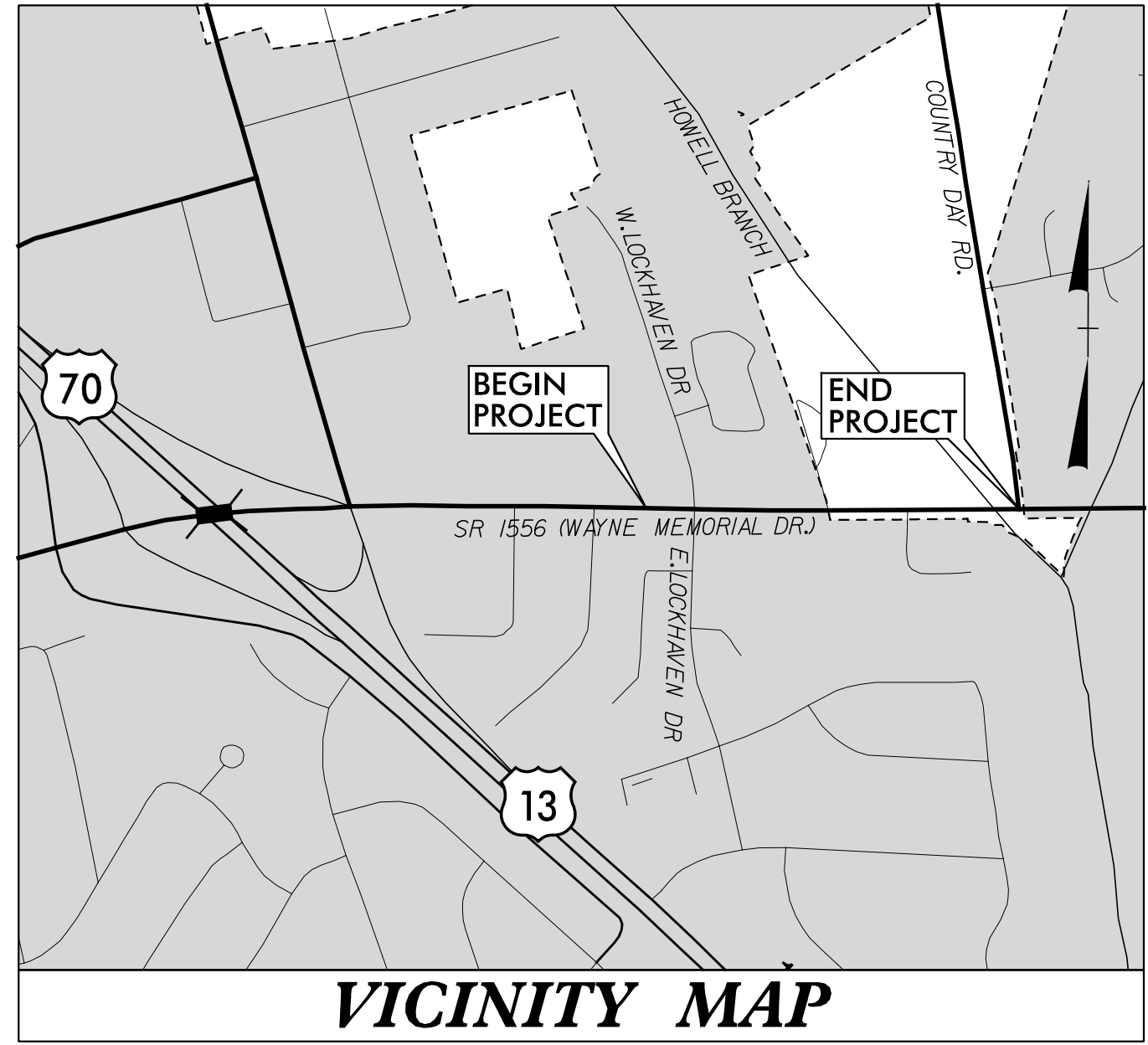
T.I.P. NO.	SHEET NO.
U-5994	UO-1

WAYNE COUNTY

**LOCATION: SR 1556 (WAYNE MEMORIAL DRIVE) AT
E. LOCKHAVEN DRIVE AND COUNTRY DAY ROAD**

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET IS DONE BY OTHERS.
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

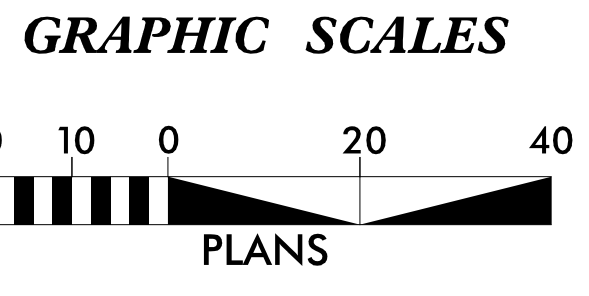
TYPE OF WORK: RELOCATION OF POWER



THIS IS NOT A CONTROL OF ACCESS PROJECT.

TIP PROJECT: U-5994

CONTRACT: DD00299



INDEX OF SHEETS

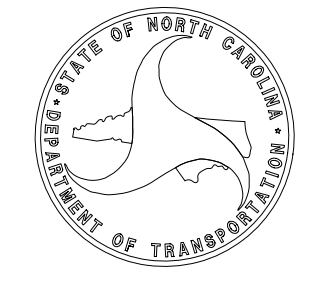
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2	UBO PLANSHEET

- UTILITY OWNERS ON PROJECT**
- (A) COMMUNICATIONS - AT&T
 - (B) POWER DISTRIBUTION - DUKE ENERGY
 - (C) COMMUNICATIONS - SPECTRUM/CHARTER
 - (D) GAS DISTRIBUTION- PNG

PREPARED IN THE OFFICES OF:

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919)571-7111

NC License
Number F-0159



**DIVISION OF HIGHWAYS
DIVISION 4**
509 Ward Blvd.
PO Box 3165
Wilson, 27895
PHONE (252) 640-6400
FAX (252) 252-6174

**UTILITIES PROJECT ENGINEER
BRIAN K. EASON, PE**

KYLE PLEASANT DIVISION UTILITIES ENGINEER
FRANK ZDELAR DIVISION UTILITIES COORDINATOR

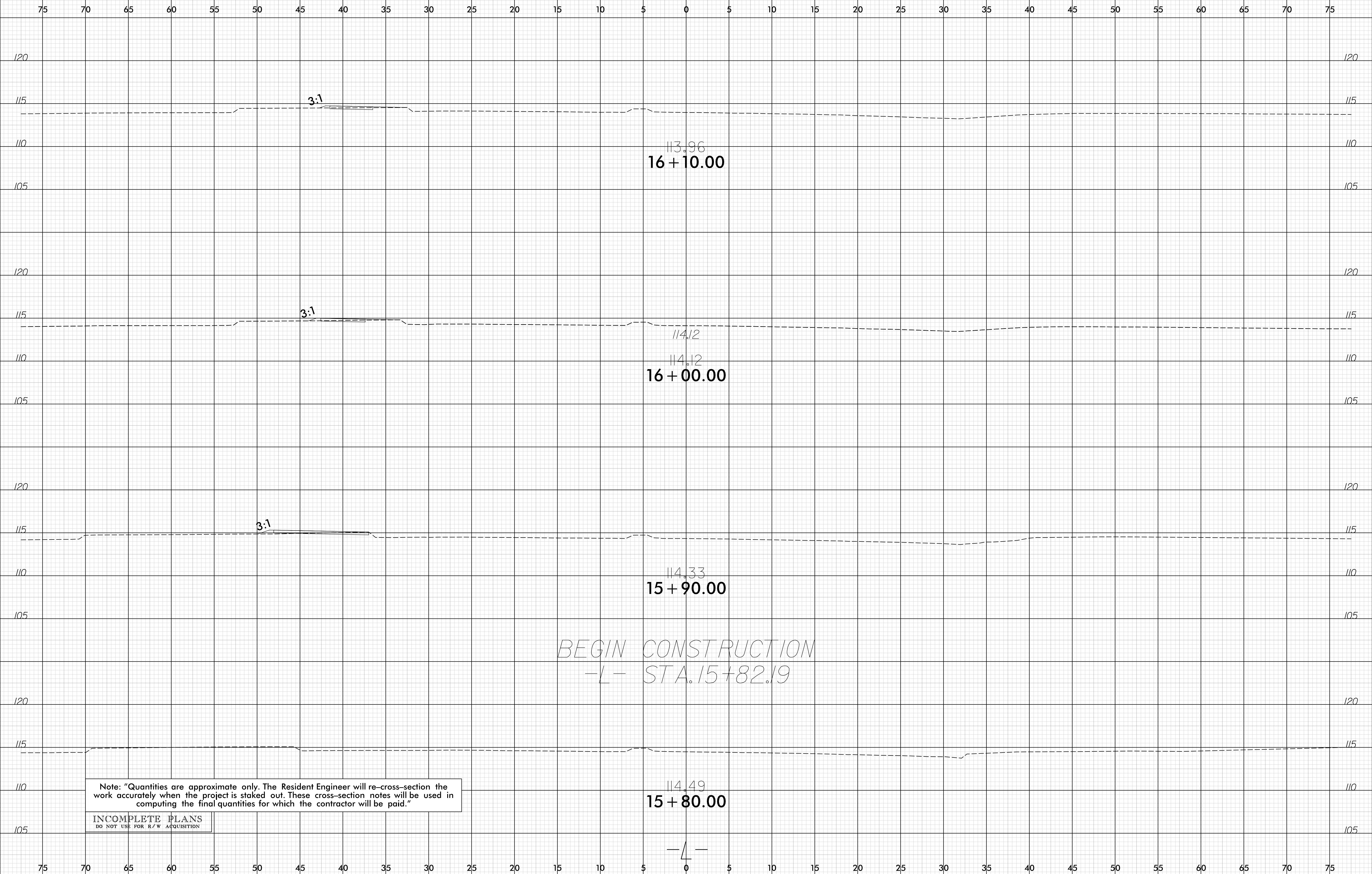
4/26/2022
U5994_UTL_UO_01.dgn
RKNIGHT

6/23/16



PROJ. REFERENCE NO.
U-5994

SHEET NO.
X-1



Note: "Quantities are approximate only. The Resident Engineer will re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid."

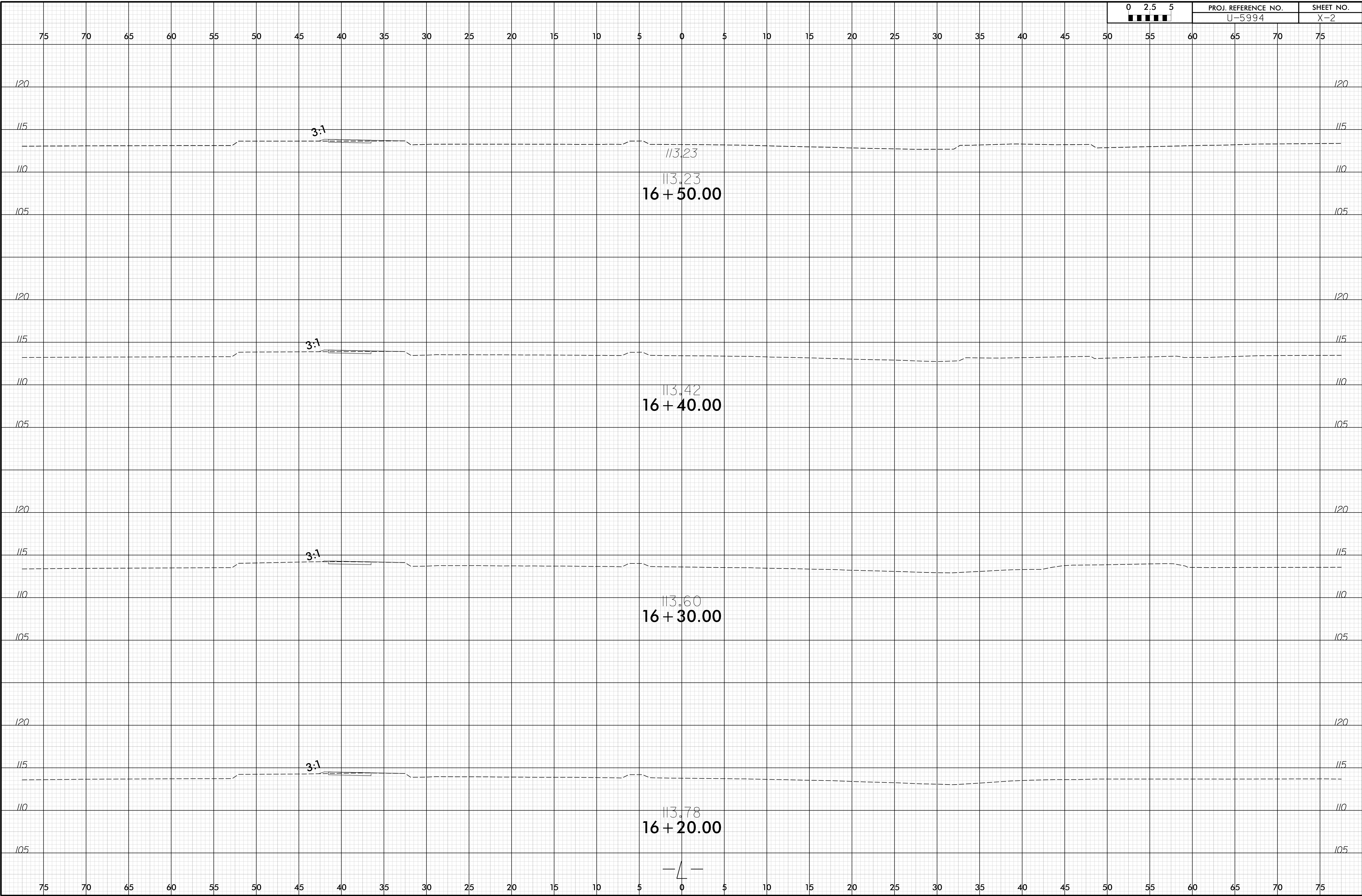
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DO NOT USE FOR R/W ACQUISITION

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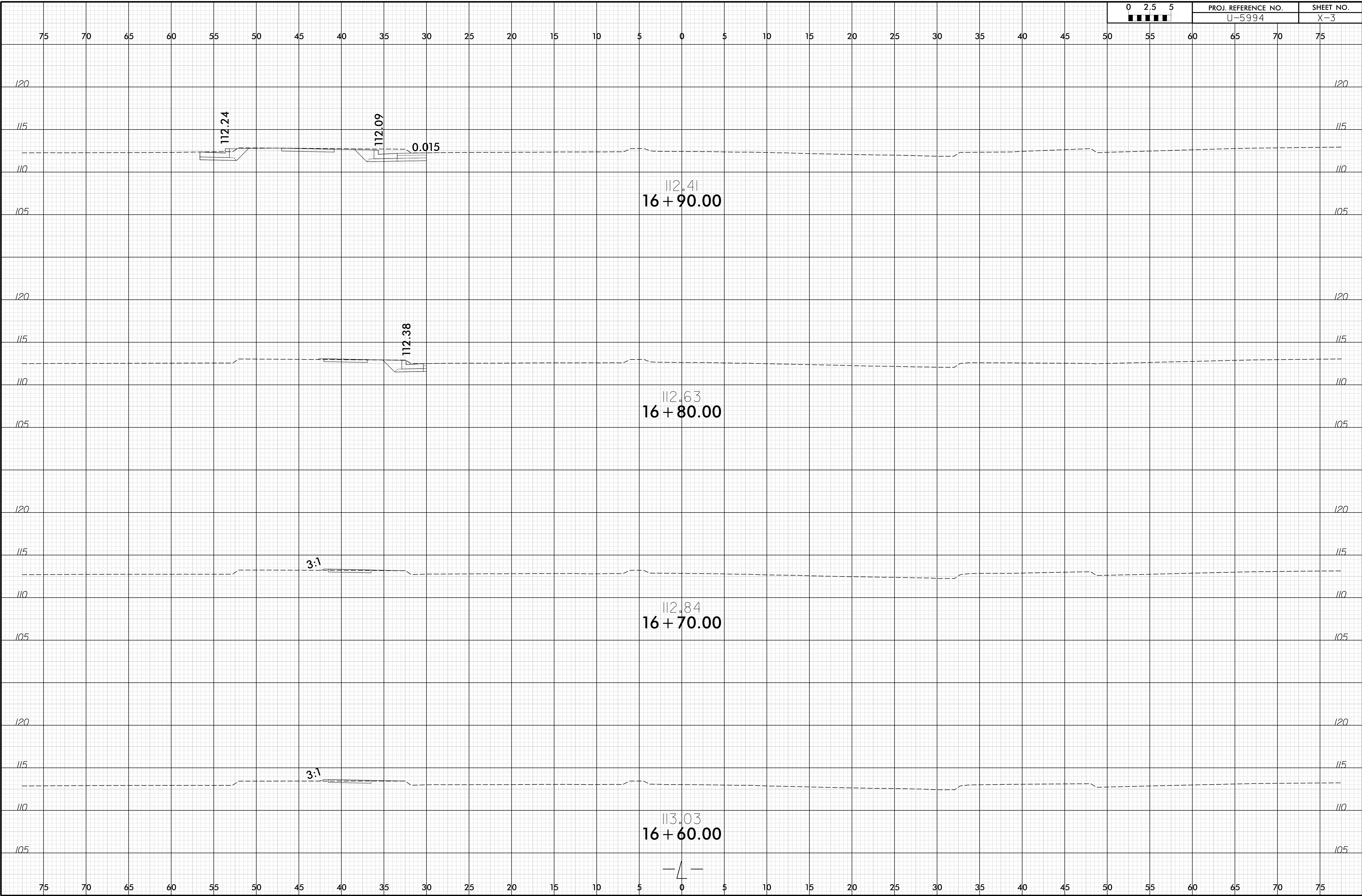
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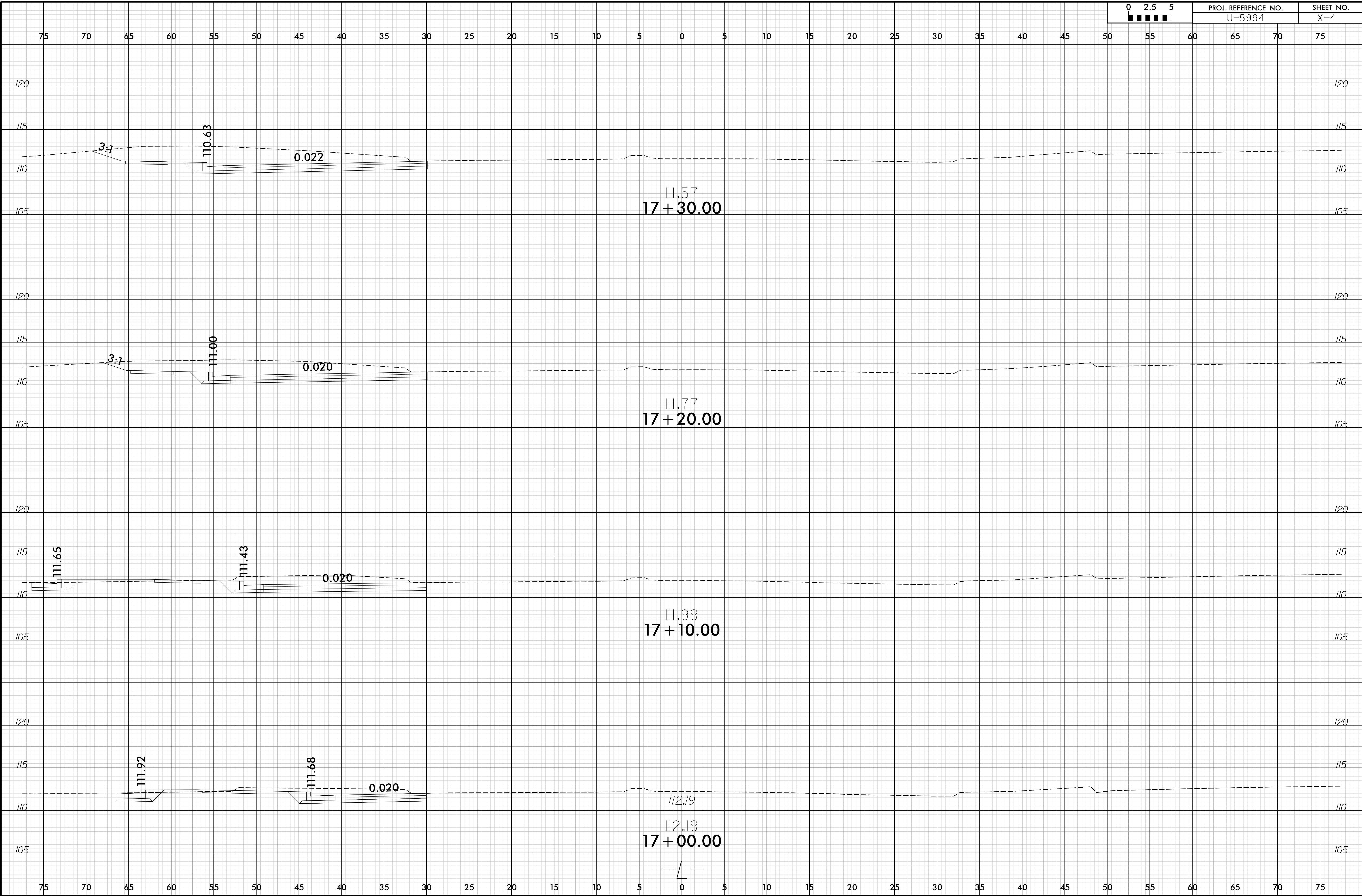


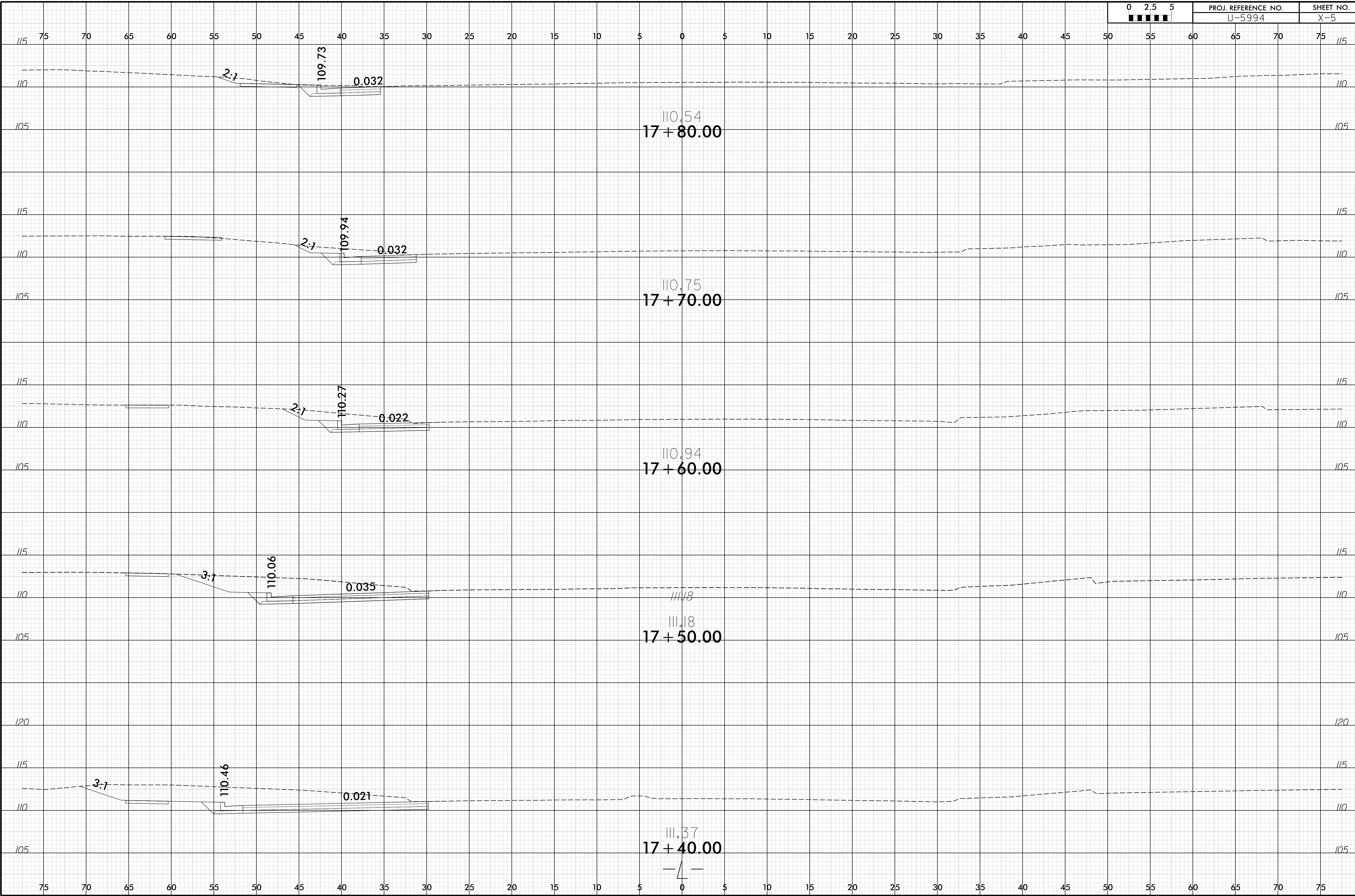
PROJ. REFERENCE NO.	SHEET NO.
U-5994	X-2



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 PLEASE









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115 115

110 110

105 105

109.77
18 + 20.00

100 100

115 115

110 110

105 105

109.97
18 + 10.00

100 100

115 115

110 110

105 105

110.16
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18 + 00.00

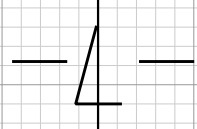
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110 110

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110.36
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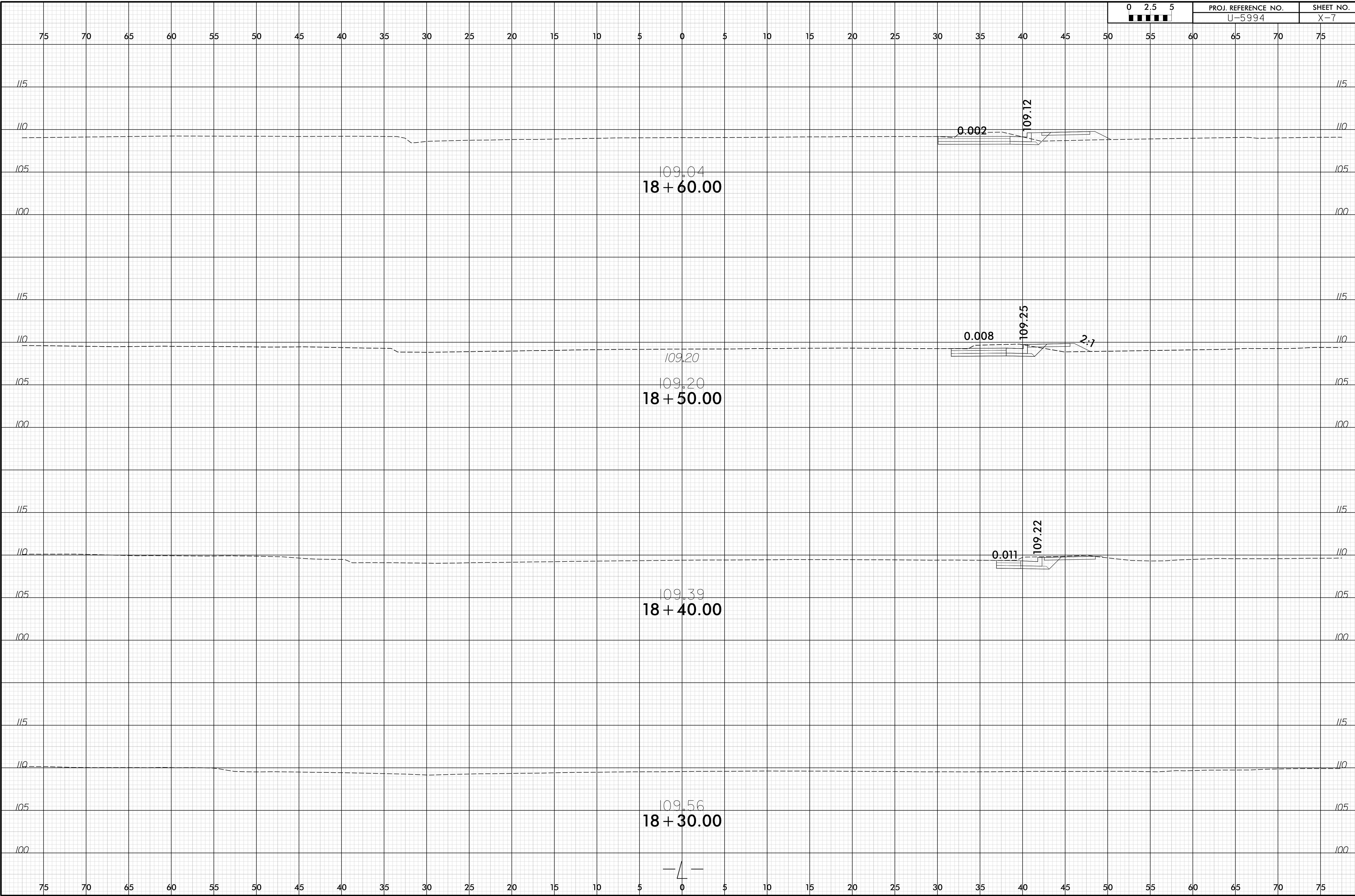


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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5994	X-7

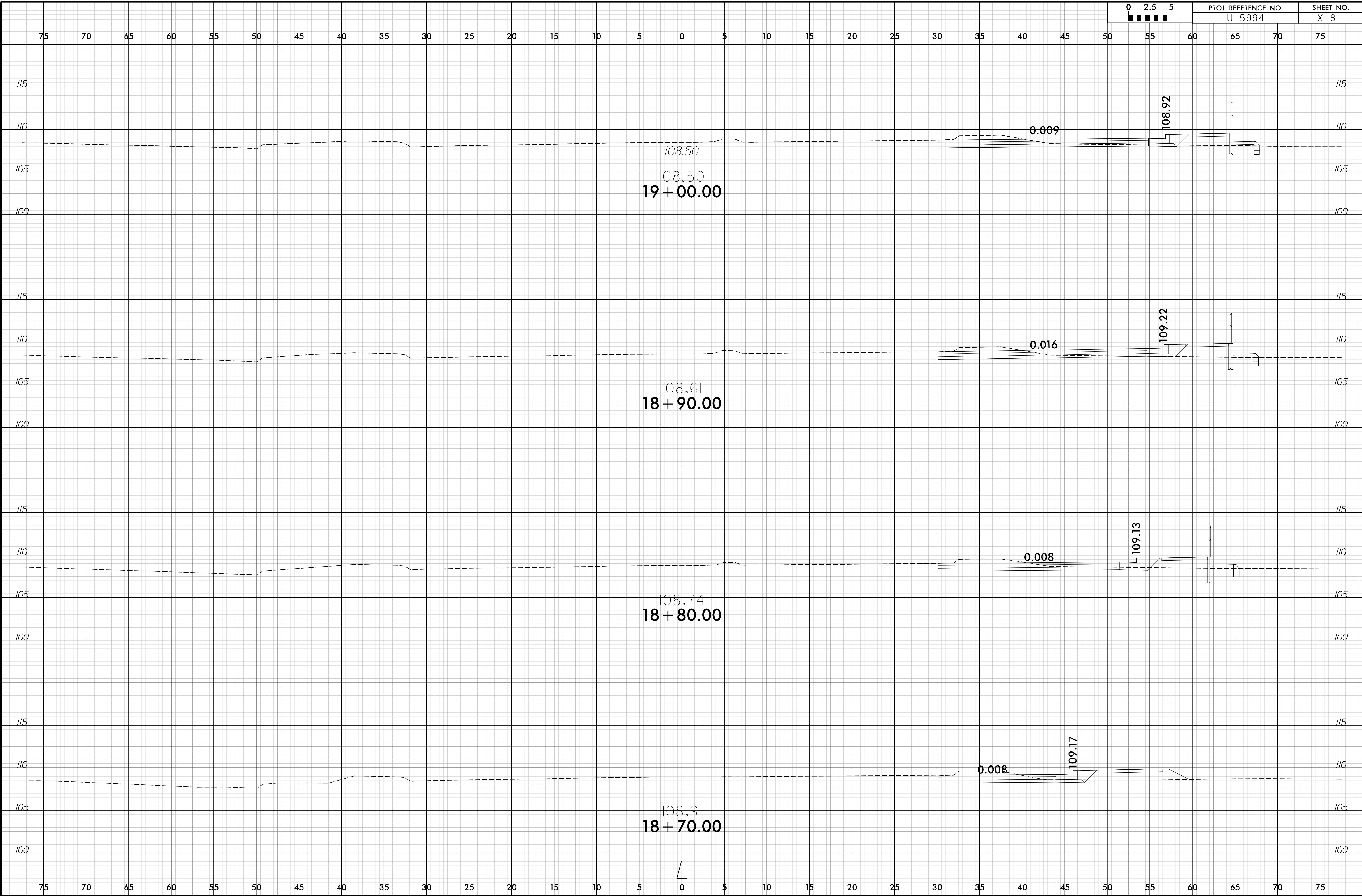


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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5994	X-8

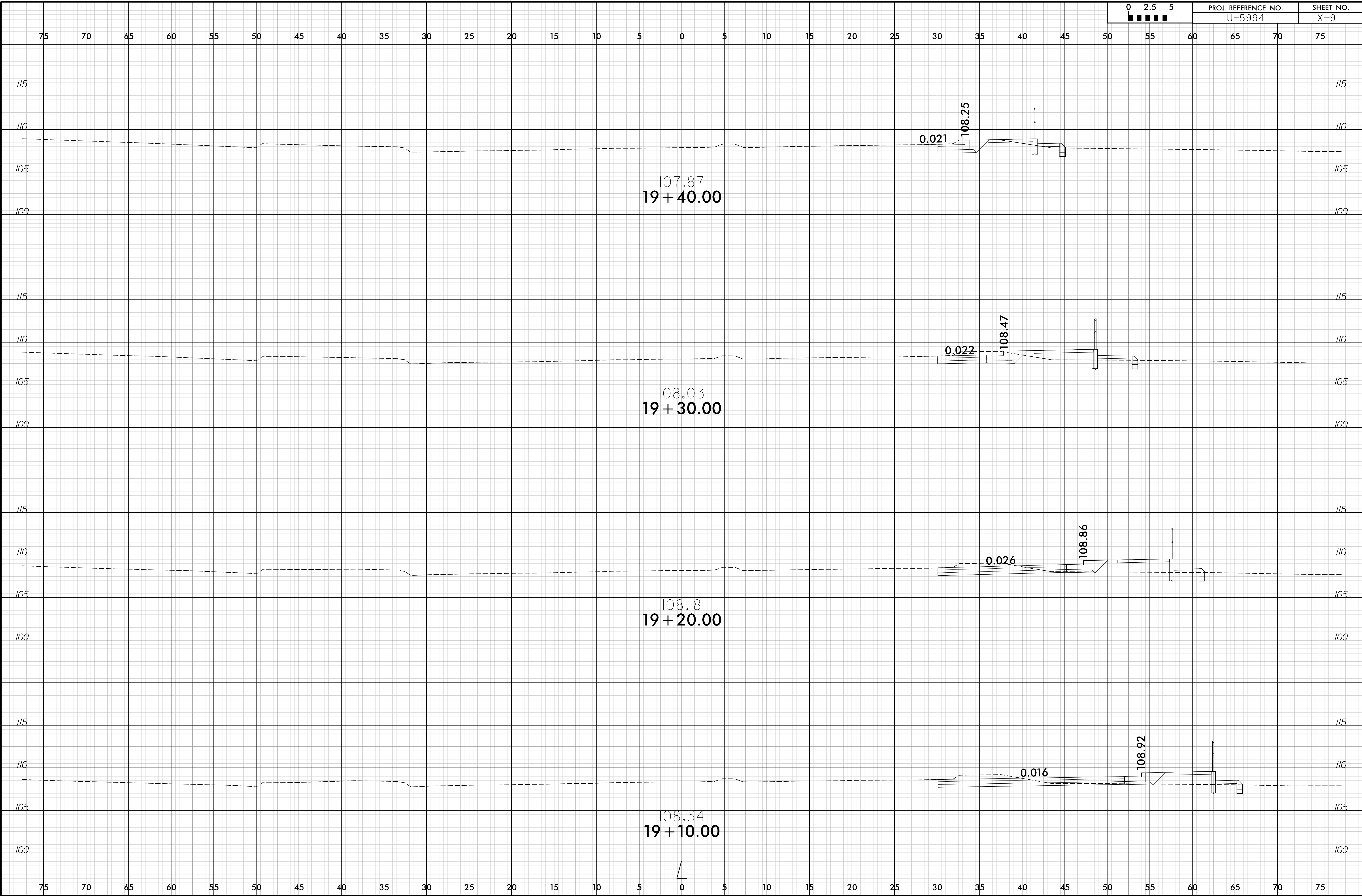


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6/23/16



PROJ. REFERENCE NO.	SHEET NO.
U-5994	X-9



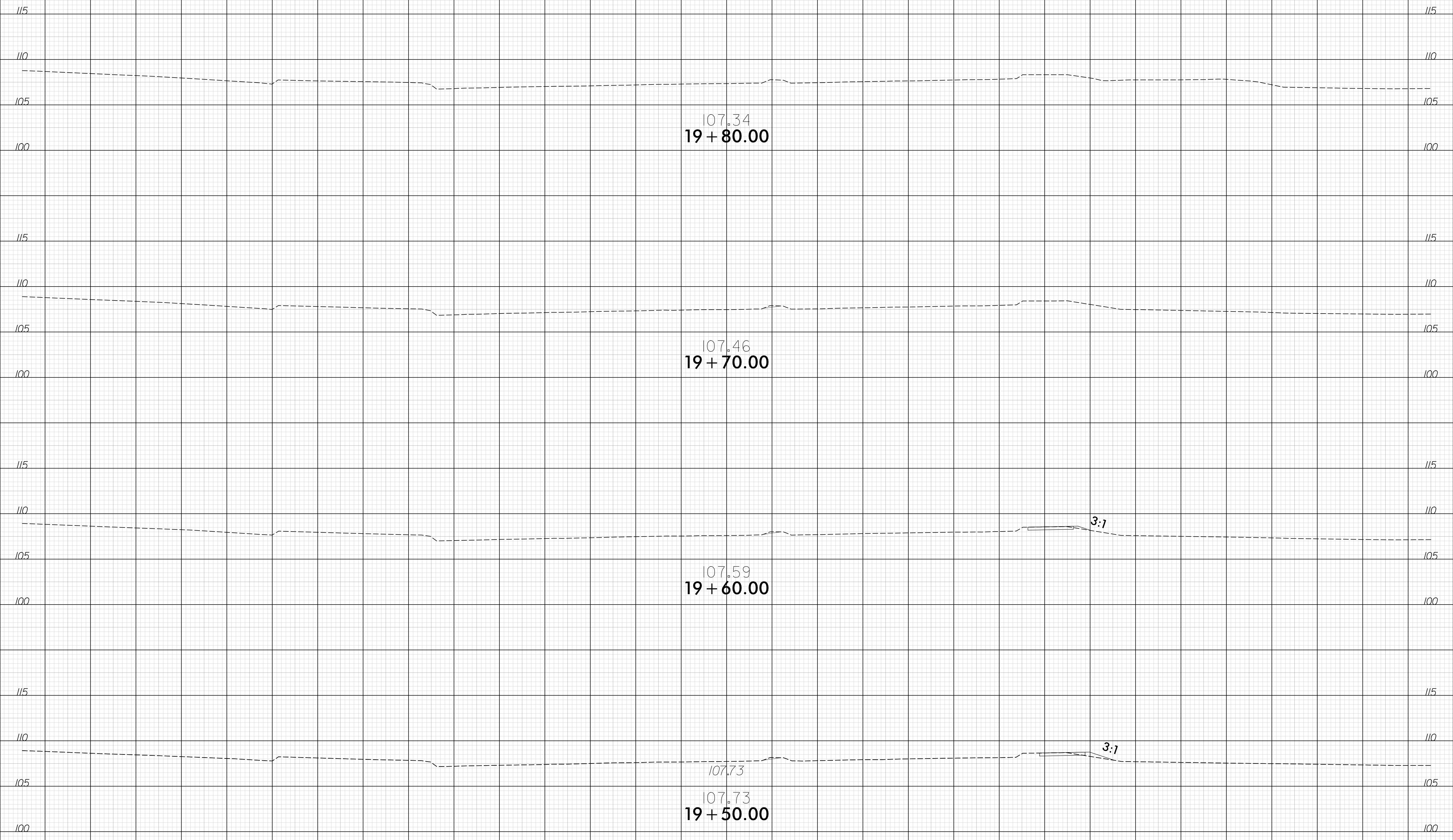
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6/23/16

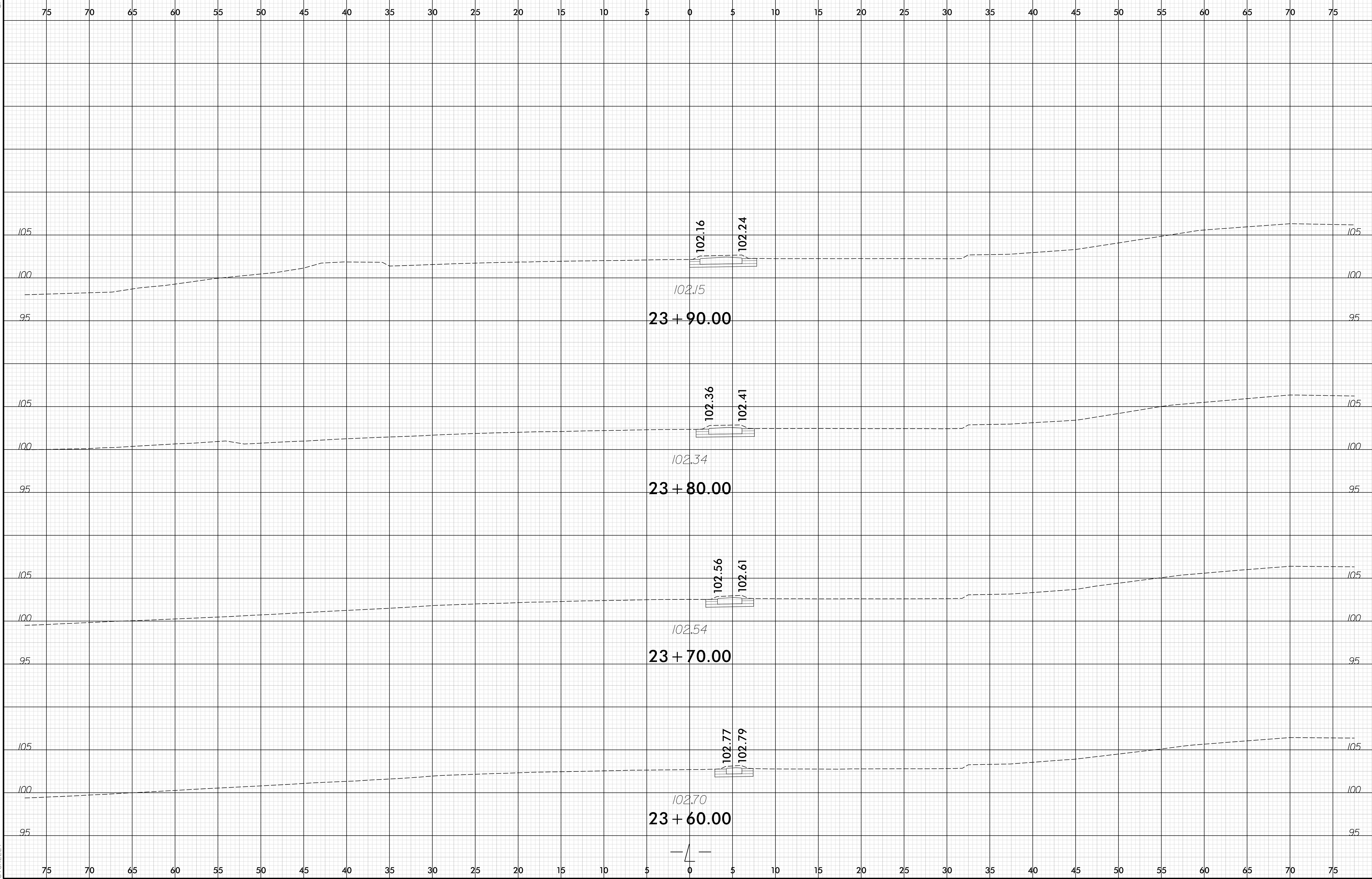


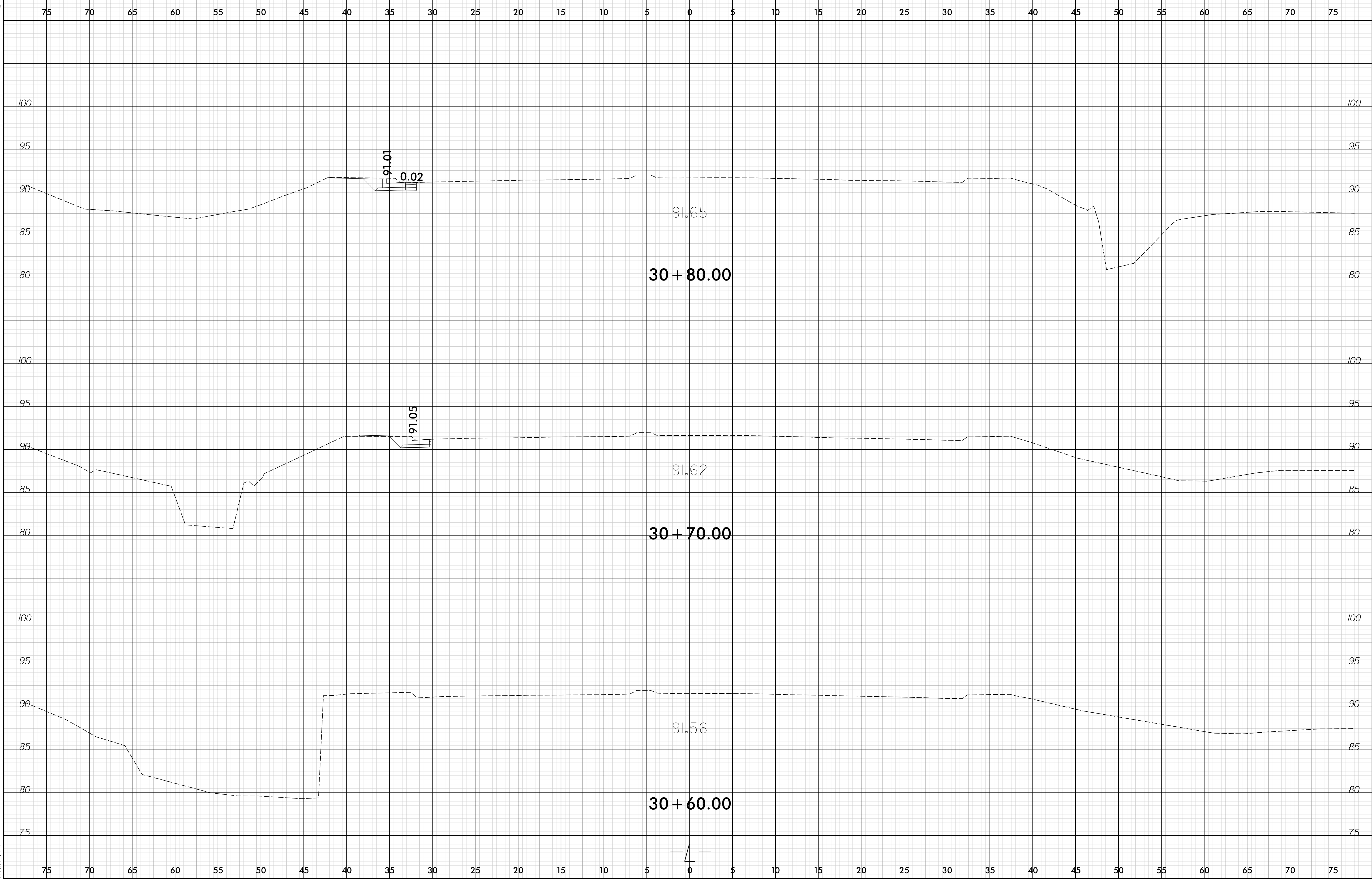
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U-5994	X-10

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30 + 80.00

30 + 70.00

30 + 60.00



