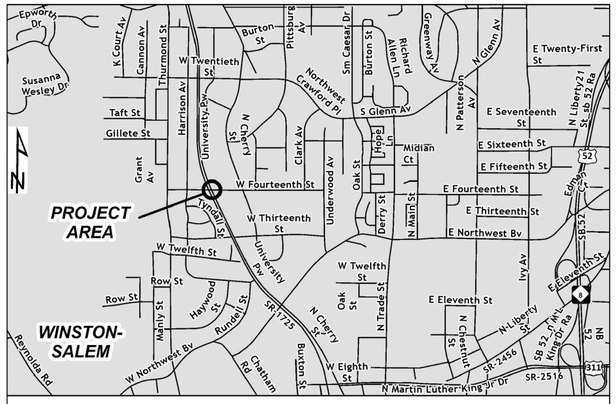
09/08/99

TIP PROJECT: HS–2409C

CONTRACT: DI–00373

See Sheet 1A For Index of Sheets



VICINITY MAP (NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

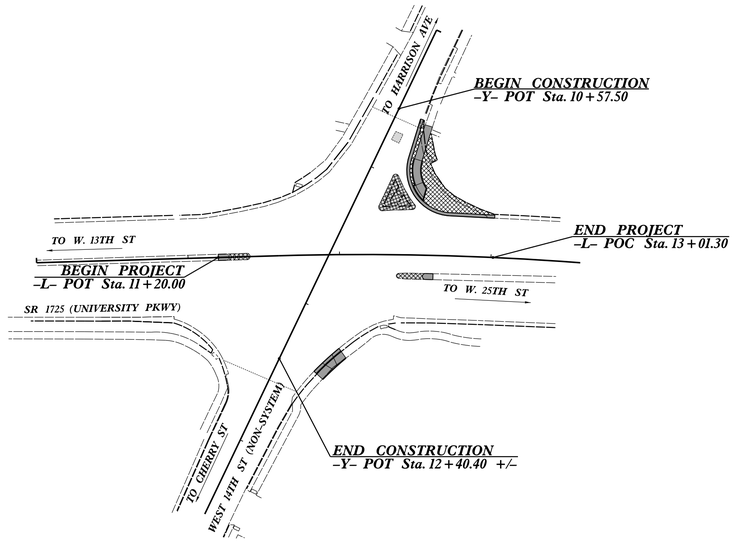
FORSYTH COUNTY

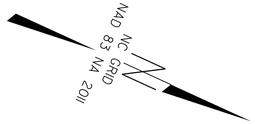
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS–2409C	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
50981.1.4	5098102	PE
50981.3.4	5098102	CONST

LOCATION: SR 1725 (UNIVERSITY PARKWAY) AT WEST 14TH STREET IN WINSTON– SALEM.

TYPE OF WORK: CURB RAMP INSTALLATION, SIGNALS, AND PAVEMENT MARKINGS





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

20 10 0 20 40
PLANS

DESIGN DATA

ADT 2025 = 17,700
ADT 2035 = 18,600

V = 50 MPH

FUNC CLASS =
PRIMARY ARTERIAL

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT HS–2409C = 0.034 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
NINTH DIVISION DESIGN/CONSTRUCT
375 SILAS CREEK PARKWAY WINSTON–SALEM, NC 27127

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NA

LETTING DATE:
SEPTEMBER 24, 2025

DANIEL C. ULRICH, PE, PLS
PROJECT ENGINEER

DANIEL C. ULRICH, PE, PLS
PROJECT DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C ULRICH

DocuSigned by:
Daniel Ulrich
–913BA995F61E400...
P.E.
SIGNATURE:

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

08-AUG-2025 13:28
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$$$$USERNAME$$$$

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HS-2409C	1A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C. ULRICH

Digitally signed by Daniel Ulrich
91364995F81E400

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS. GENERAL NOTES. AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B	ROADWAY DETAIL
3B	ROADWAY SUMMARIES & SIGNING QUANTITIES
4	PLAN SHEET
RW-1	SURVEY CONTROL SHEET
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
SIG-1 THRU SIG-1.2	SIGNAL PLANS

EFF. 01-16-2024
REV.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh. N. C.. Dated January 16. 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.01	Concrete Pavement Joints - Construction and Contraction Joints
700.03	Dowel Assembly
DIVISION 8 - INCIDENTALS	
846.01	Concrete Curb. Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.06	Curb Ramp (Use Details in Lieu of Standards for Sheets 9 and 10 of 13)
852.01	Concrete Islands
DIVISION 9 - SIGNING	
904.10	ORIENTATION OF GROUND MOUNTED SIGNS

GENERAL NOTES:

2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

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 CITY OF WINSTON-SALEM . ATT.

DUKE ENERGY. MCNC. PIEDMONT NATURAL GAS COMPANY. SEGRA. CHARTER

COMMUNICATIONS

CURB RAMPS

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

13-AUG-2025 08:55
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9/10/2021

PROJECT REFERENCE NO.	SHEET NO.
HS-2409C	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin (EIP)
- Computed Property Corner
- Existing Concrete Monument (ECM)
- Parcel/Sequence Number
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary
- Proposed Wetland Boundary
- Existing Endangered Animal Boundary
- Existing Endangered Plant Boundary
- Existing Historic Property Boundary
- Known Contamination Area: Soil
- Potential Contamination Area: Soil
- Known Contamination Area: Water
- Potential Contamination Area: Water
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

- Standard Gauge
- RR Signal Milepost
- Switch
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Secondary Horiz and Vert Control Point
- Vertical Benchmark
- Existing Right of Way Monument
- Proposed Right of Way Monument (Rebar and Cap)
- Proposed Right of Way Monument (Concrete)
- Existing Permanent Easement Monument
- Proposed Permanent Easement Monument (Rebar and Cap)
- Existing C/A Monument
- Proposed C/A Monument (Rebar and Cap)
- Proposed C/A Monument (Concrete)
- Existing Right of Way Line
- Proposed Right of Way Line
- Existing Control of Access Line
- Proposed Control of Access Line
- Proposed ROW and CA Line
- Existing Easement Line
- Proposed Temporary Construction Easement
- Proposed Temporary Drainage Easement
- Proposed Permanent Drainage Easement
- Proposed Permanent Drainage/Utility Easement
- Proposed Permanent Utility Easement
- Proposed Temporary Utility Easement
- Proposed Aerial Utility Easement

ROADS AND RELATED FEATURES:

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

VEGETATION:

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

EXISTING STRUCTURES:

MAJOR:

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

MINOR:

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

UTILITIES:

** SUE – Subsurface Utility Engineering*
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H–Frame Pole
- U/G Power Line Test Hole (SUE – LOS A)*
- U/G Power Line (SUE – LOS B)*
- U/G Power Line (SUE – LOS C)*
- U/G Power Line (SUE – LOS D)*

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole
- Telephone Pedestal
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole
- U/G Telephone Test Hole (SUE – LOS A)*
- U/G Telephone Cable (SUE – LOS B)*
- U/G Telephone Cable (SUE – LOS C)*
- U/G Telephone Cable (SUE – LOS D)*
- U/G Telephone Conduit (SUE – LOS B)*
- U/G Telephone Conduit (SUE – LOS C)*
- U/G Telephone Conduit (SUE – LOS D)*
- U/G Fiber Optics Cable (SUE – LOS B)*
- U/G Fiber Optics Cable (SUE – LOS C)*
- U/G Fiber Optics Cable (SUE – LOS D)*

WATER:

- Water Manhole
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line Test Hole (SUE – LOS A)*
- U/G Water Line (SUE – LOS B)*
- U/G Water Line (SUE – LOS C)*
- U/G Water Line (SUE – LOS D)*
- Above Ground Water Line

TV:

- TV Pedestal
- TV Tower
- U/G TV Cable Hand Hole
- U/G TV Test Hole (SUE – LOS A)*
- U/G TV Cable (SUE – LOS B)*
- U/G TV Cable (SUE – LOS C)*
- U/G TV Cable (SUE – LOS D)*
- U/G Fiber Optic Cable (SUE – LOS B)*
- U/G Fiber Optic Cable (SUE – LOS C)*
- U/G Fiber Optic Cable (SUE – LOS D)*

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line Test Hole (SUE – LOS A)*
- U/G Gas Line (SUE – LOS B)*
- U/G Gas Line (SUE – LOS C)*
- U/G Gas Line (SUE – LOS D)*
- Above Ground Gas Line

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line
- Above Ground Sanitary Sewer
- SS Force Main Line Test Hole (SUE – LOS A)*
- SS Force Main Line (SUE – LOS B)*
- SS Force Main Line (SUE – LOS C)*
- SS Force Main Line (SUE – LOS D)*

MISCELLANEOUS:

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

PROJECT REFERENCE NO.	SHEET NO.
HS-2409C	2A
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

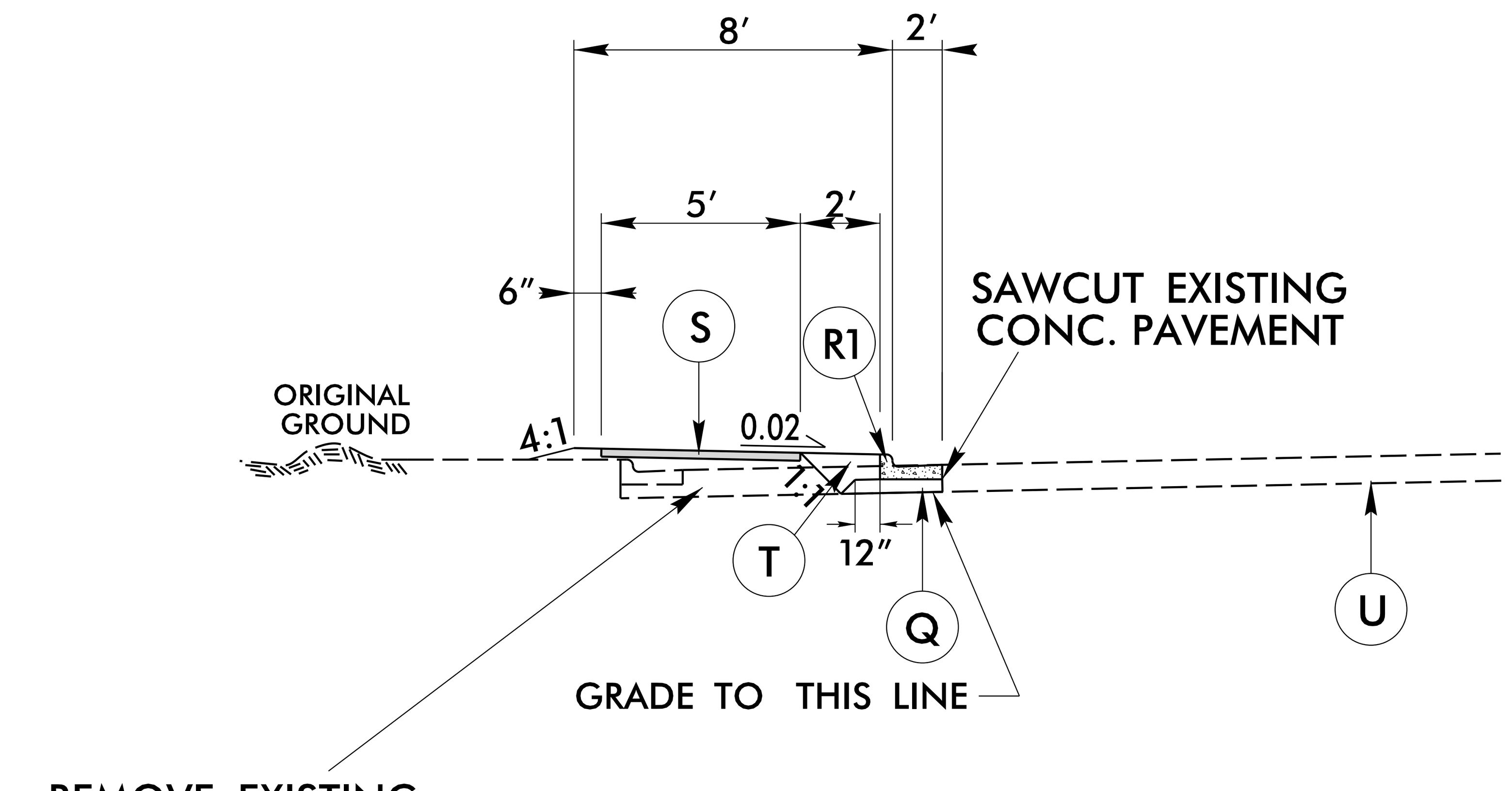
NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C. ULRICH

Daniel Ulrich

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

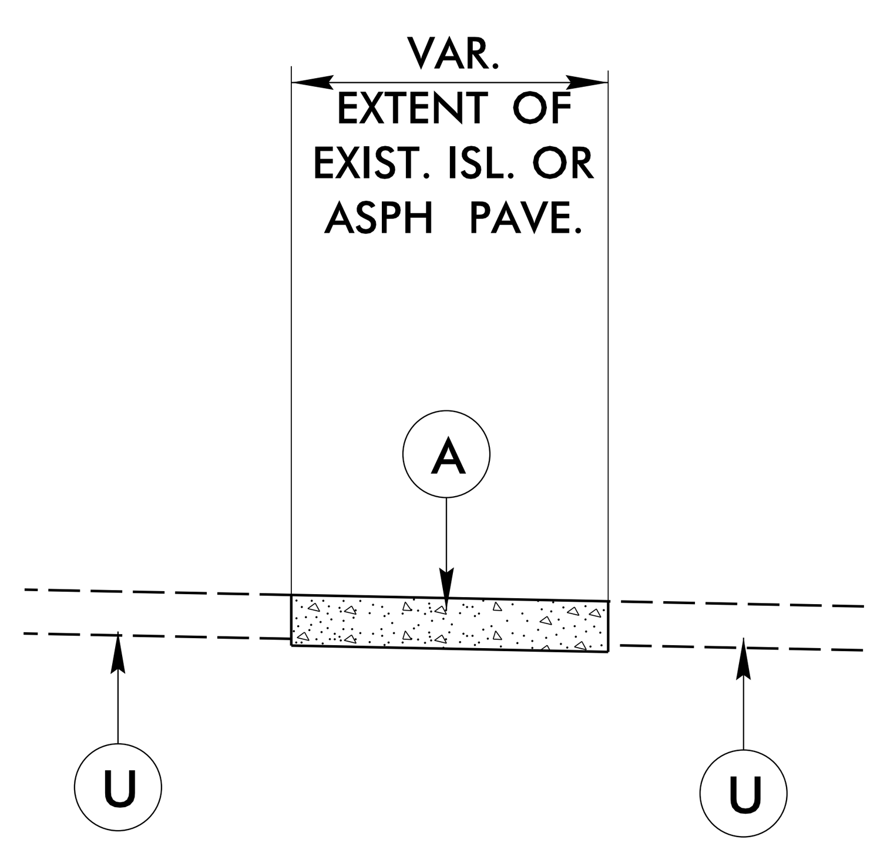
PAVEMENT SCHEDULE

A	14" PORTLAND CEMENT CONCRETE PAVEMENT
Q	6" (MAX.) INCIDENTAL STONE BASE
R1	PROP. 2'-6" CONCRETE CURB & GUTTER
R2	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT.



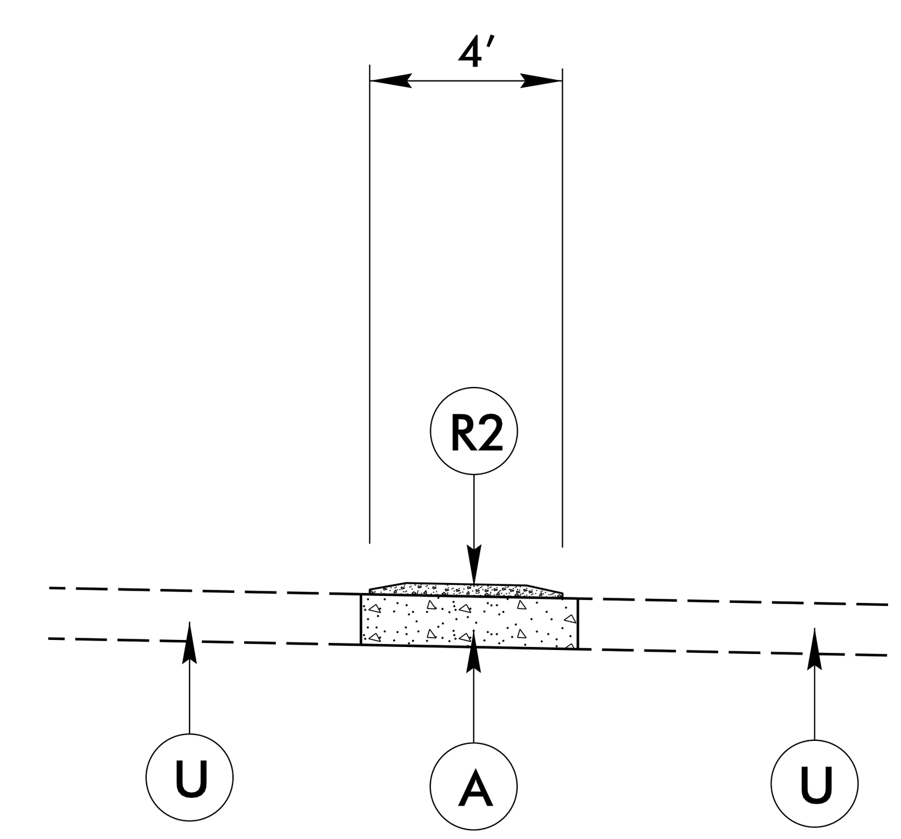
TYPICAL SECTION NO. 1

FOR PROPOSED CURB AND GUTTER FROM -Y- STA. 10+57.50 TO -L- STA. 13+01.30



CONC. PAVE REPLACEMENT FOR EXIST. ISL. OR ASPH. PAVE. DETAIL

FOR USE AT LOCATIONS CALLED OUT ON PSH 4



MONOLITHIC ISLAND DETAIL

FOR USE AT LOCATIONS CALLED OUT ON PSH 4

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
HS-2409C	2B
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

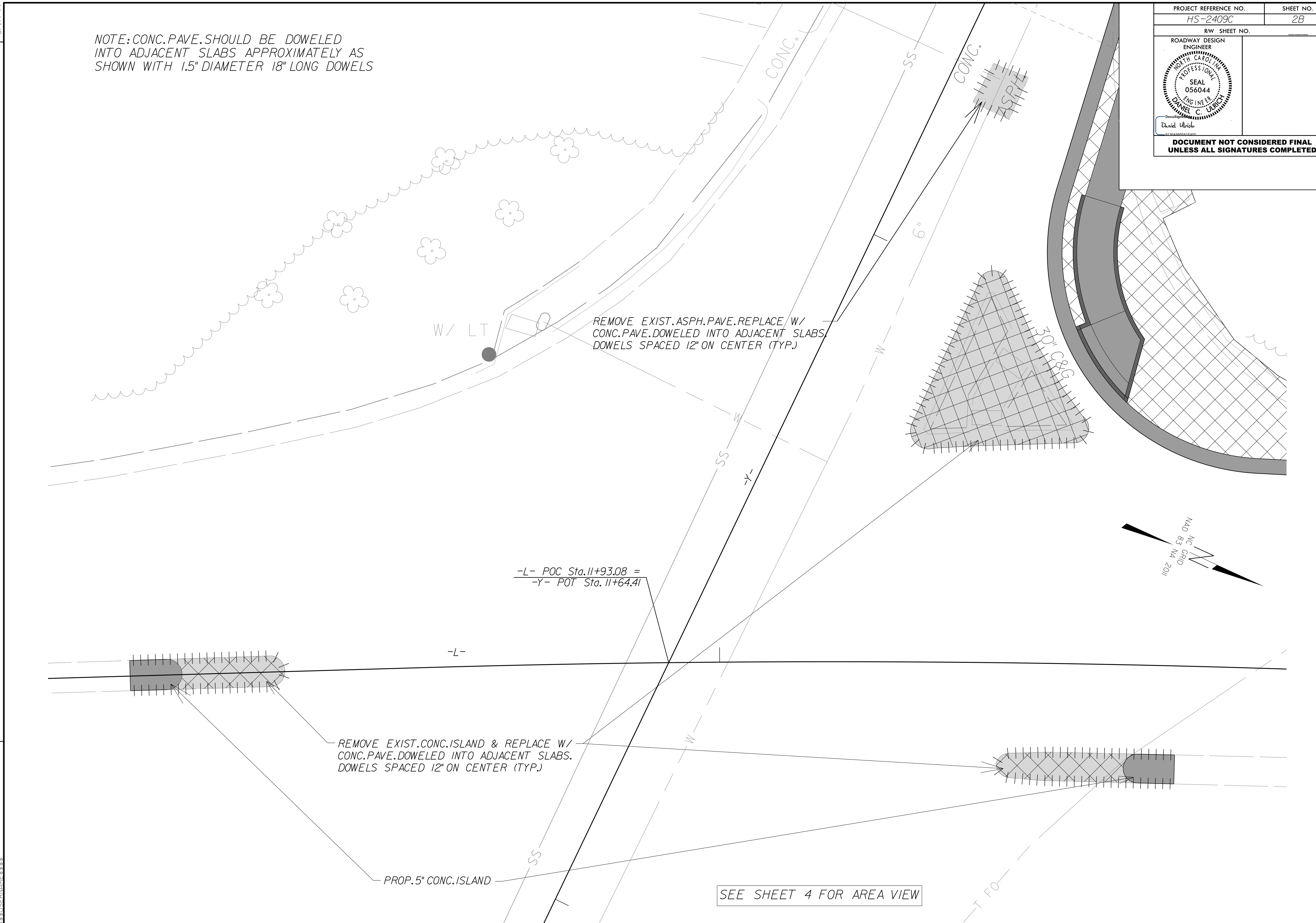
NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C. ULRICH

Daniel Ulrich

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

8/17/99

REVISIONS



NOTE: CONC. PAVE. SHOULD BE DOWELED INTO ADJACENT SLABS APPROXIMATELY AS SHOWN WITH 1.5" DIAMETER 18" LONG DOWELS
CONC.
SS
CONC.
ASPH.
6"
W/ LT
REMOVE EXIST. ASPH. PAVE. REPLACE W/ CONC. PAVE. DOWELED INTO ADJACENT SLABS. DOWELS SPACED 12" ON CENTER (TYP.)
30" C&G
W
-Y-
NC GRID NAD 83 NA 2011
-L- POC Sta. 11+93.08 = -Y- POT Sta. 11+64.41
-L-
REMOVE EXIST. CONC. ISLAND & REPLACE W/ CONC. PAVE. DOWELED INTO ADJACENT SLABS. DOWELS SPACED 12" ON CENTER (TYP.)
PROP. 5" CONC. ISLAND
SEE SHEET 4 FOR AREA VIEW
T FO

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ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	SQ. YD	NOTES
–Y–	–Y– 10+57 ±	–Y– 10+63 ±	4	
		SAY:	5	

CONCRETE PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	SQ. YD	NOTES
–Y–/–L–	–Y– 10+63 ±	–L– 12+96 ±	99	
		SAY:	100	

2'6" C&G REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LF	NOTES
–Y–/–L–	–Y– 10+57 ±	–L– 13+01 ±	91	REMOVE C&G FROM EXIST. SLIP LANE
–Y–	–Y– 10+97 ±	–Y– 11+23 ±	78	REMOVE C&G FROM EXIST. PEDESTRIAN REFUGE
		TOTAL:	169	
		SAY:	170	

CONC. SIDEWALK REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	SQ. YD	NOTES
–Y–	–Y– 10+60 ±	–Y– 10+81 ±	14	REMOVE CONC. SIDEWALK
		SAY:	15	

CONC. ISLAND REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	SQ. YD	NOTES
–L–	–L– 11+20 ±	–L– 11+41 ±	10	REMOVE PORTION OF MEDIAN ISL.
–L–	–L– 12+37 ±	–L– 12+62 ±	10	REMOVE PORTION OF MEDIAN ISL.
–Y–	–Y– 11+00 ±	–Y– 11+20 ±	18	REMOVE CONC. ISL. FROM INSIDE OF C&G ON PEDESTRIAN REFUGE
		TOTAL:	38	
		SAY:	40	

SIGNING QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4080200000-E	903	SUPPORTS, STEEL SQUARE TUBE	20	L.F.
4102000000-N	904	SIGN ERECTION, TYPE E	2	EA.
4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	3	EA.
4360000000-N	SP	GENERIC SIGNING ITEM - SUPPORTS, OMNI-DIRECTIONAL BREAKAWAY	2	EA.

PROJECT REFERENCE NO.	SHEET NO.
HS-2409C	4

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C. ULRICH

Daniel Ulrich

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GENERAL SIGNING NOTES:

. SIGNS FURNISHED BY STATE

. CONFIRM IN WRITING AT LEAST 4 WEEKS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.

. IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.

. ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE LEFT UNDISTURBED UNLESS OTHERWISE NOTED ON PLANS.

PROJECT NOTES:

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. REPLACE SIGN AT LOCATION DETERMINED BY ENGINEER

REVISIONS 8/17/99

MMARGARET S. NORMAN DB 2164 PG 2522

CITY OF WINSTON-SALEM DB 2087 PG 88

DARRELL M. AND PATRICIA A. FOY DB 1513 PG 327

CITY OF WINSTON-SALEM DB 1276 PG 642 PB 32 PG 47

HHABITAT FOR HUMANITY OF FORSTH COUNTY INC DB 3214 PG 1867

-Y- POT Sta. 10+00.00

BEGIN CONSTRUCTION -Y- POT Sta.10+57.50

-Y- +57.50 15.81 LT TIE PROP.2'6" C&G TO EXIST.C&G & RETAIN CB

TIE PROP.5' SIDEWALK -Y- +59.67 20.18 LT

REMOVE EXIST.ASPH.PAVE. REPLACE W/ CONC.PAVE.

RETROFIT CURB RAMP TO NCDOT TYPE 2A MODIFIED CURB RAMP (MODIFY FOR RADIUS)

-L- POT Sta. 10+00.00

-L- PC Sta. 11+60.06

-Y- +83.45 19.65 LT

INSTALL NCDOT TYPE 2A MODIFIED CURB RAMP (MODIFY FOR RADIUS)

REMOVE YIELD SEE NOTE 1

REMOVE EXIST.CONC.ISLAND & REPLACE W/ CONC.PAVE.

-L- POC Sta.11+93.08 = -Y- POT Sta. 11+64.41

REMOVE EXIST CONC.ISLAND REPLACE W/ CONC.PAVE.

-L- +72.07 26.42 LT

-L- +01.30 25.95 LT TIE PROP.2'6" C&G TO EXIST.C&G

END PROJECT -L- POC Sta.13+01.30

-L- POC Sta. 13+59.05

N 26° 14' 42.2" W

BEGIN PROJECT -L- POT Sta.11+20.00

VAR.WIDTH CONC.

R 2.00'

PROP.5" CONC. ISLAND

REMOVE AND REPLACE

R4-7 24" X 30" SEE NOTES 1 & 2

PROP.5" CONC. ISLAND

REMOVE CONC.PAVE.,C&G.CURB RAMP AND SIDEWALK

REMOVE EXIST.CONC.ISLAND & REPLACE W/ CONC.PAVE.

S 88° 59' 21.8" E

RETROFIT CURB RAMP TO NCDOT TYPE 2A CURB RAMP

INSTALL NCDOT TYPE 2B CURB RAMP -Y- 12+27 +/-

END CONSTRUCTION -Y- POT Sta.12+40.40 +/-

-Y- POT Sta. 13+54.16

-L-
PI Sta 12+59.65
Δ = 5° 58' 09.0" (RT)
D = 2° 59' 59.2"
L = 198.99'
T = 99.58'
R = 1,910.00'

NAD 83 NC GRID 2011

PAVEMENT REMOVAL

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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2409C	RW01	1

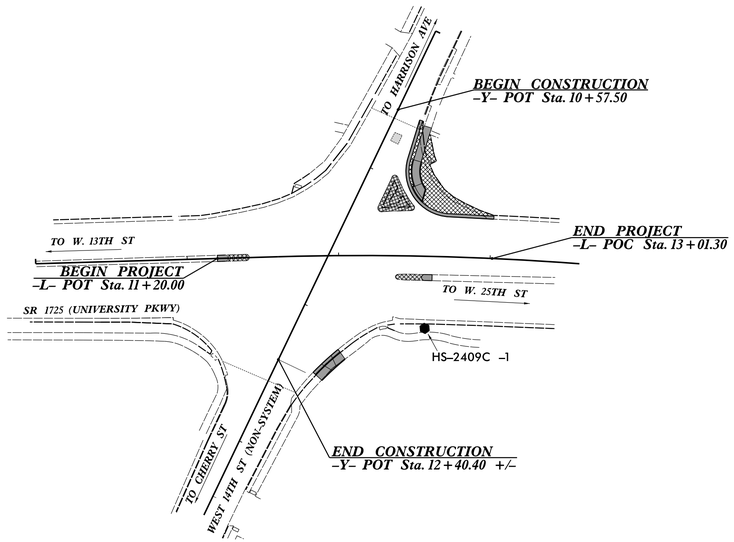
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,

FORSYTH COUNTY

TIP PROJECT: HS-2409C

09/08/99



NAD 83 NC GRID NA 2011

PROPOSED ALIGNMENTS
(EXISTING RETAINED)

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	862064.4219	1629135.1726
PC	11+60.06	862207.9835	1629064.3913
PT	13+59.05	862390.7137	1628985.8447

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	862240.6240	1628885.6636
POT	13+54.16	862234.3775	1629239.7653

SURVEY CONTROL

BL

POINT	DESC.	NORTH	EAST	ELEVATION
1	HS-2409C-1	862315.5940	1629067.1380	759.79
2	HS-2409C-2	862204.8550	1629513.4860	762.89

I, Daniel C. Ulrich, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: *AA*
Type of GPS field procedure: RTN
Dates of survey: June 18 through June 30, 2025
Datum/Epoch:NAD 83 (2011)
Published/Fixed-control use: N/A
Localized around: "HS-2409C-1"
Northing: 862,315.594 (ft)
Easting: 1,629,067.138 (ft)
Combined grid factor: 0.999949153

Geoid model: 18
Units: US Survey Foot

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 06/18/2025 to 06/30/2025 , and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of August, 2025.

DocuSigned by:
Daniel Ulrich
9136A995F61E400...
Professional Land Surveyor
L-5635

GRAPHIC SCALE

50 25 0 50 100
PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "HS-2409C-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 862,315.594(ft) EASTING: 1,629,067.138(ft) ELEVATION: 759.790(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999949153 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HS-2409C-1" TO -L- STATION 10+00 IS S 15-09'21.43" E 260.22(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:
DIVISION OF HIGHWAYS
NINTH DIVISION DESIGN/CONSTRUCT
375 SILAS CREEK PARKWAY WINSTON-SALEM, NC 27127

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	*LETTING DATE:*
N/A	*09/24/2025*

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5635 LAND SURVEYOR DANIEL C. ULRICH

DocuSigned by:
Daniel Ulrich
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SIGNATURE: *Date:*

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

15-AUG-2025 14:59
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$$$$USERNAME$$$$

CONTRACT: DI-00373 T.I.P.: HS-2409C

TIP NO.	SHEET NO.
HS-2409C	PMP-1

APPROVED: Daniel Ulrich (DocuSigned by: 9136A995F61E400...)

DATE: 08/15/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C. ULRICH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

FORSYTH COUNTY

LOCATION: SR 1725 (UNIVERSITY PARKWAY) AT WEST 14TH STREET IN WINSTON– SALEM.

INDEX

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

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	COLD APPLIED PLASTIC (4")
C10	YELLOW EDGE LINE
	COLD APPLIED PLASTIC (4")
C13	YELLOW DOUBLE CENTER
	COLD APPLIED PLASTIC (8")
C46	WHITE CROSSWALK LINE
	COLD APPLIED PLASTIC (24")
C61	WHITE STOPBAR

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	COLD APPLIED PLASTIC	NONE

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

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

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

SUMMARY OF QUANTITIES

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE II (4")	130	LF
4780000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE II (8")	670	LF
4795000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE II (24")	155	LF
4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	275	LF
4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	250	LF
4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	150	LF

PLAN PREPARED BY: NCDOT HIGHWAY DIVISION 9 DIVISION DESIGN/CONSTRUCT

DANIEL C. ULRICH, PE, PLS PROJECT ENGINEER

DANIEL C. ULRICH, PE, PLS PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
HS-2409C	PMP-2

APPROVED: Daniel Ulrich

DATE: 08/15/2025

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 056044 ENGINEER DANIEL C. ULRICH

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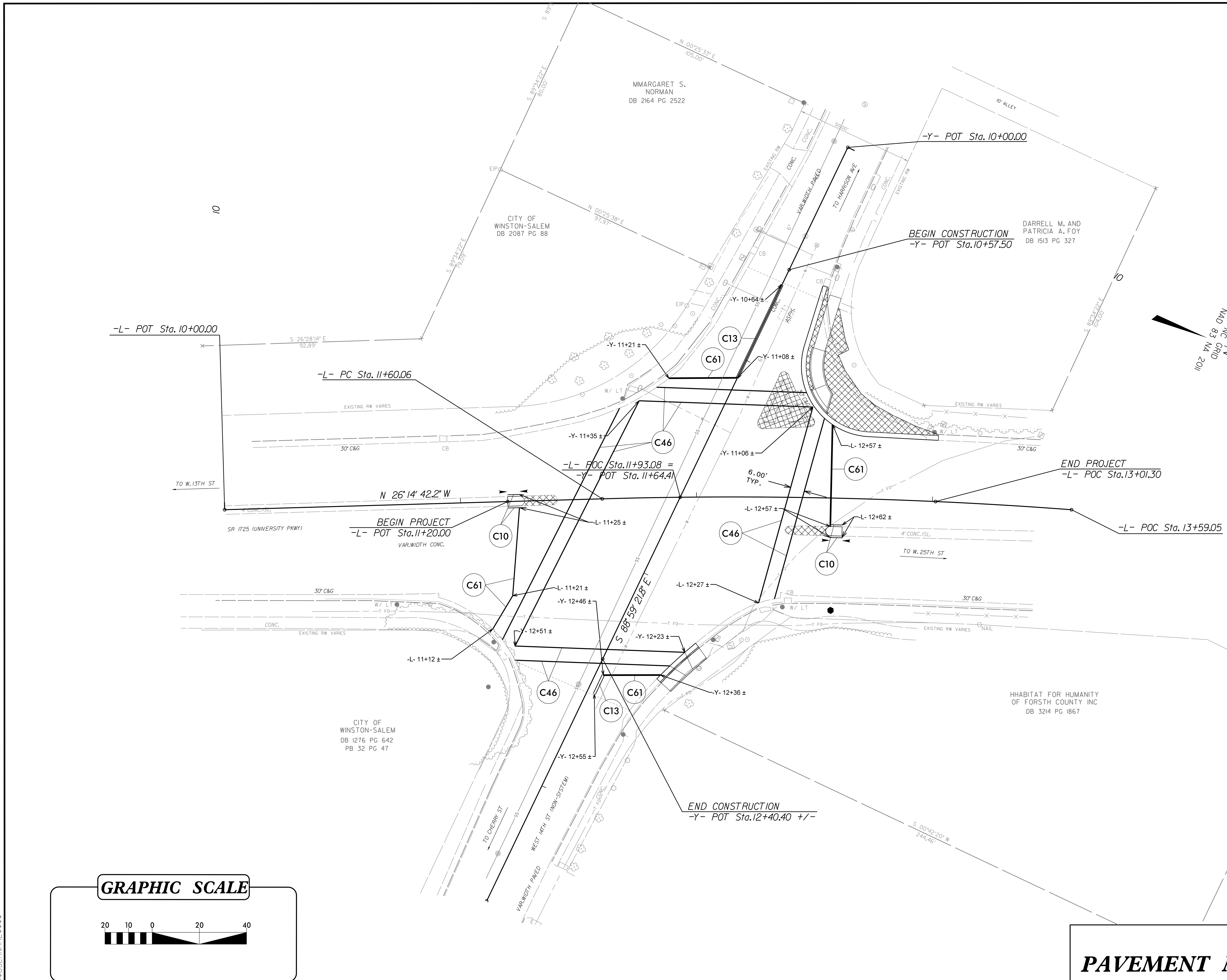


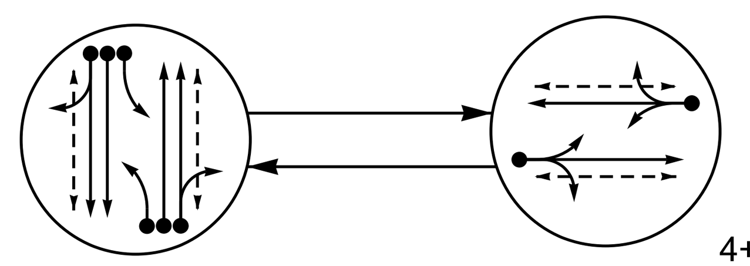
MMARGARET S. NORMAN DB 2164 PG 2522
CITY OF WINSTON-SALEM DB 2087 PG 88
DARRELL M. AND PATRICIA A. FOY DB 1513 PG 327
-Y- POT Sta. 10+00.00
BEGIN CONSTRUCTION -Y- POT Sta.10+57.50
-L- POT Sta. 10+00.00
-L- PC Sta. 11+60.06
-L- POC Sta.11+93.08 = -Y- POT Sta. 11+64.41
N 26° 14' 42.2" W
BEGIN PROJECT -L- POT Sta.11+20.00
END PROJECT -L- POC Sta.13+01.30
-L- POC Sta. 13+59.05
S 88° 59' 21.8" E
END CONSTRUCTION -Y- POT Sta.12+40.40 +/-
CITY OF WINSTON-SALEM DB 1276 PG 642 PB 32 PG 47
HHABITAT FOR HUMANITY OF FORSTH COUNTY INC DB 3214 PG 1867
SR 1725 (UNIVERSITY PKWY)
TO W. 13TH ST
TO W. 25TH ST
TO HARRISON AVE
TO CHERRY ST
WEST 14TH ST (NON-SYSTEM)
NAD 83 NC GRID NA 2011
C13
C61
C46
C10
6.00' TYP.
GRAPHIC SCALE
20 10 0 20 40

14-AUG-2025 13:42
S:\Project Development\TIP_Projects_HS\HS-2409C-UniversityPkwy-14thST\Traffic\Signing&Delineation\HS-2409C_D09_PMP2.dgn
$$$$USERNAME$$$$

PAVEMENT MARKING PLAN

PROJECT REFERENCE NO.	SHEET NO.
HS-2409C	Sig. 1

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

TABLE OF OPERATION

SIGNAL FACE	PHASE 2+6	PHASE 4+8	PHASE FLASH
21, 22	G	R	R
23	←F/Y	←R	←R
41, 42	R	G	R
61, 62	G	R	R
63	←F/Y	←R	←R
81, 82	R	G	R
P21, P22	W	DW	DRK
P41, P42	DW	W	DRK
P61, P62	W	DW	DRK
P81, P82	DW	W	DRK

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	290	EXIST	-	2	Y	Y	-	-	-	-	-
2B	6X6	290	EXIST	-	2	Y	Y	-	-	-	-	-
2C	6X40	0	2-4-2	Y	2	Y	Y	Y	-	3	-	-
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	5	-	-
6A	6X6	280	EXIST	-	6	Y	Y	-	-	-	-	-
6B	6X6	280	EXIST	-	6	Y	Y	-	-	-	-	-
6C	6X40	0	2-4-2	Y	6	Y	Y	Y	-	3	-	-
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	-	-

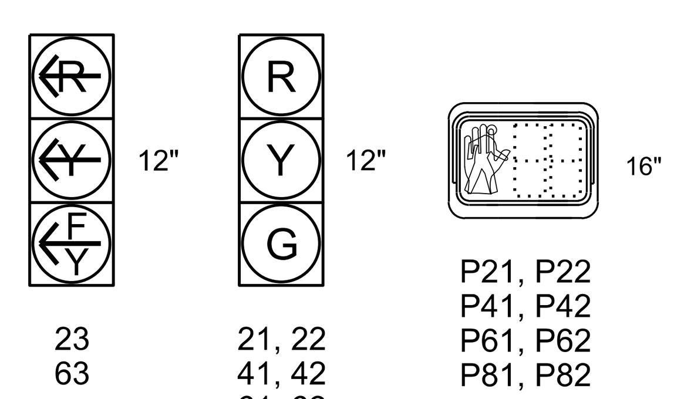
2 Phase
Fully Actuated
(Winston-Salem Signal System)

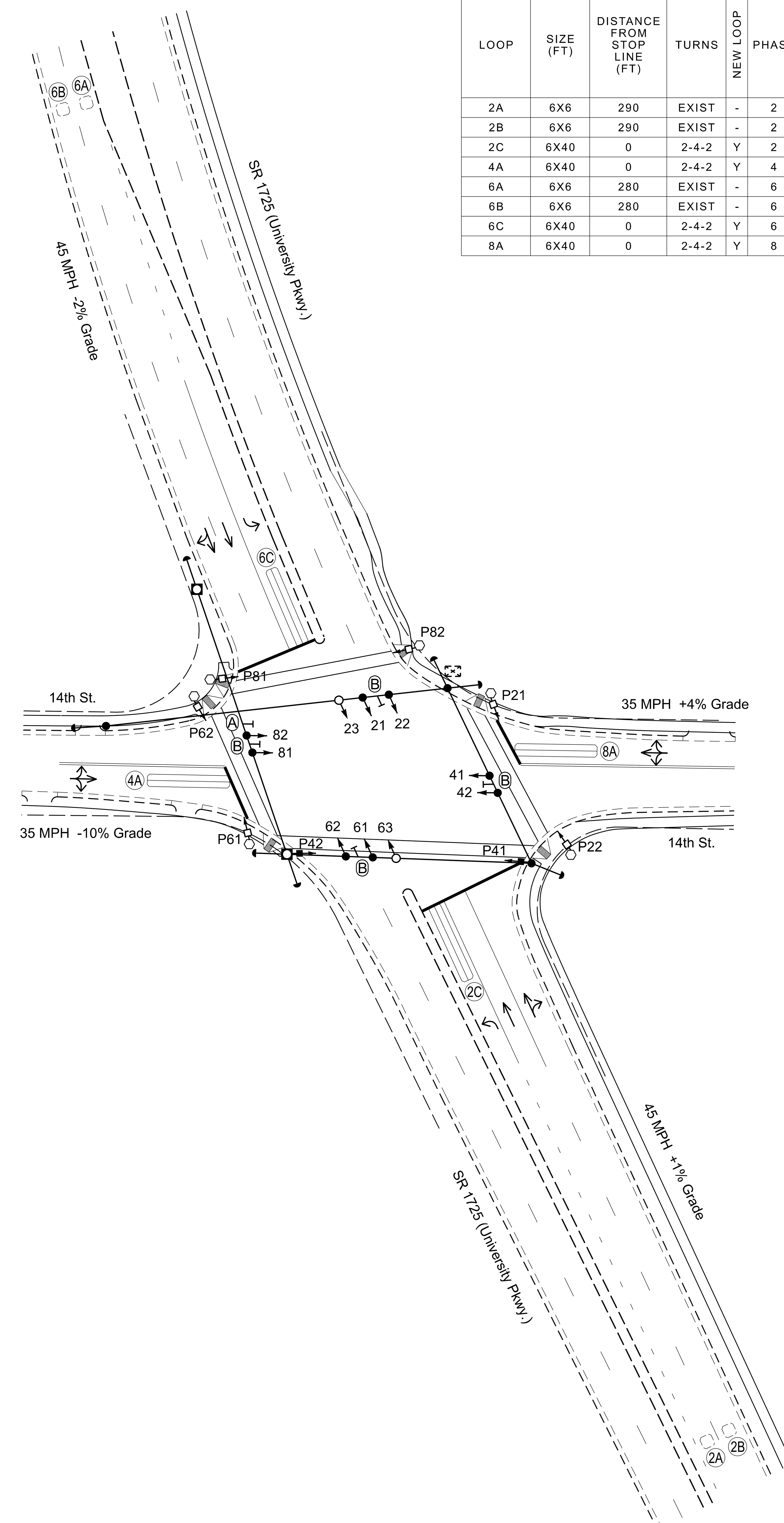
NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Reposition existing signal heads 21, 22, 61, and 62.
4. Set all detector units to presence mode.
5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
7. Remove Existing Left Arrow "ONLY" signs (R3-5L).
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

SIGNAL FACE I.D.

All Heads L.E.D.





LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	Modified Signal Head	N/A
	Sign	
	Pedestrian Signal Head	
	Signal Pole with Guy	
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	
	Controller & Cabinet	
	Junction Box	
X-UC	2-in Underground Conduit	UC
N/A	Right of Way	
	Directional Arrow	
N/A	Curb Ramp	
	Metal Strain Pole	
	Type II Signal Pedestal	
A	"NO TURN ON RED" Sign (R10-11)	A
B	Street Name Sign By Others (D3-1)	B

OASIS 2070 TIMING CHART

FEATURE	PHASE 2	PHASE 4	PHASE 6	PHASE 8
Min Green 1*	12	7	12	7
Extension 1*	6.0	2.0	6.0	2.0
Max Green 1*	90	25	90	25
Yellow Clearance	4.7	4.8	4.7	4.8
Red Clearance	2.1	2.7	2.1	2.7
Red Revert	2.0	2.0	2.0	2.0
Advance Walk	7	7	7	7
Walk 1*	14	14	14	13
Don't Walk 1	17	31	15	21
Seconds Per Actuation*	1.5	-	1.5	-
Max Variable Initial*	34	-	34	-
Time Before Reduction*	15	-	15	-
Time To Reduce*	30	-	30	-
Minimum Gap	3.0	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade

Prepared in the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N. Greenfield Pkwy, Garner, NC 27529

SR 1725 (University Parkway) at 14th Street

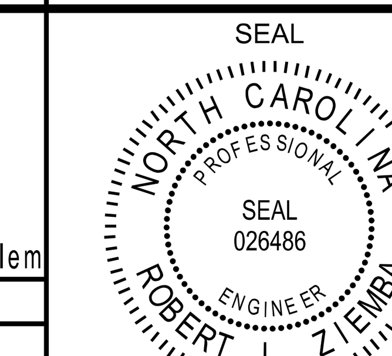
Division 9 | Forsyth County | Winston-Salem

PLAN DATE: May 2025	REVIEWED BY:
PREPARED BY: J.A. Lohr	REVIEWED BY:

SCALE 0 40 1"=40'

REVISIONS	INIT.	DATE

SEAL



DocuSigned by:
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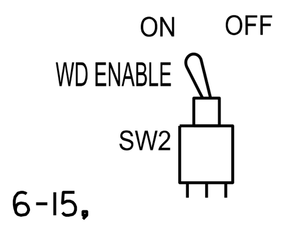
06/19/2025
DATE

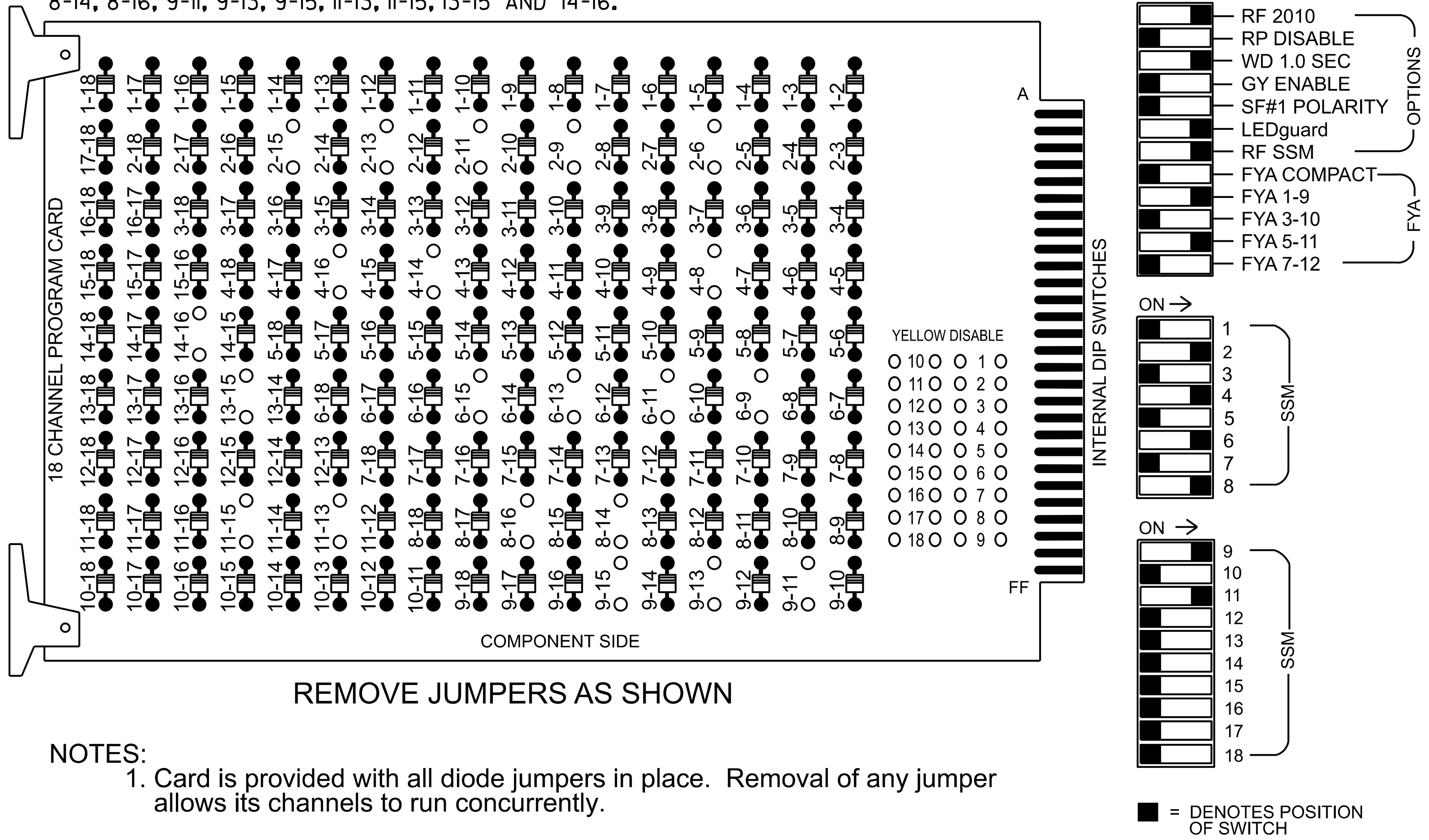
SIG. INVENTORY NO. 09-0129

18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 2-6, 2-9, 2-11, 2-13, 2-15, 4-8, 4-14, 4-16, 6-9, 6-11, 6-13, 6-15, 8-14, 8-16, 9-11, 9-13, 9-15, 11-13, 11-15, 13-15 AND 14-16.



REMOVE JUMPERS AS SHOWN

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that the Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

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. Program phases 4 and 8 for Dual Entry.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Variable Initial and Gap Reduction.
5. Remove phases 2 and 6 from Start Up In Green.
6. Remove phases 2, 4, 6 and 8 from 'STARTUP PED CALL'.
7. Program phases 2 and 6 as First Phases.
8. Remove phases 2 and 6 for Yellow Flash and program overlaps overlaps 1 as Wag Overlaps.
9. The cabinet and controller are part of the Winston-Salem Signal System.

EQUIPMENT INFORMATION

CONTROLLER..............2070L
CABINET.................332 /W/ AUX
SOFTWARE................ECONOLITE OASIS
CABINET MOUNT...........BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED......S2,S3,S5,S6,S8,S9,S11,S12, AUX S1,AUX S4.
PHASES USED.............2,2 PED,4,4 PED,6,6 PED,8,8 PED
OVERLAP "A".............2
OVERLAP "B".............NOT USED
OVERLAP "C".............6
OVERLAP "D".............NOT USED

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
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.	NU	21,22	P21, P22	NU	41,42	P41, P42	NU	61,62	P61, P62	NU	81,82	P81, P82	63★	NU	NU	23★	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																		
(hand)			113			104			119			110						
(walking person)			115			106			121			112						

NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)

FILE		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	SLOT EMPTY	Ø 2 2A	Ø 2 2C	SLOT EMPTY	SLOT EMPTY	Ø 4 4A	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø2 PED DC ISOLATOR	Ø6 PED DC ISOLATOR	FS DC ISOLATOR
	L		Ø 2 2B	NOT USED			NOT USED						Ø4 PED DC ISOLATOR	Ø8 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	U	SLOT EMPTY	Ø 6 6A	Ø 6 6C	SLOT EMPTY	SLOT EMPTY	Ø 8 8A	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L		Ø 6 6B	NOT USED			NOT USED								

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

FS = FLASH SENSE
ST = STOP TIME

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	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
2C	TB2-9,10	I3U	63	25	32	2	Y	Y	Y		3
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			5
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6	Y	Y			
6C	TB3-9,10	J3U	64	26	36	6	Y	Y	Y		3
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			3
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29	PED 2	2 PED					
P41,P42	TB8-5,6	I12L	69	31	PED 4	4/8 PED					
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	32	PED 8	8/4 PED					

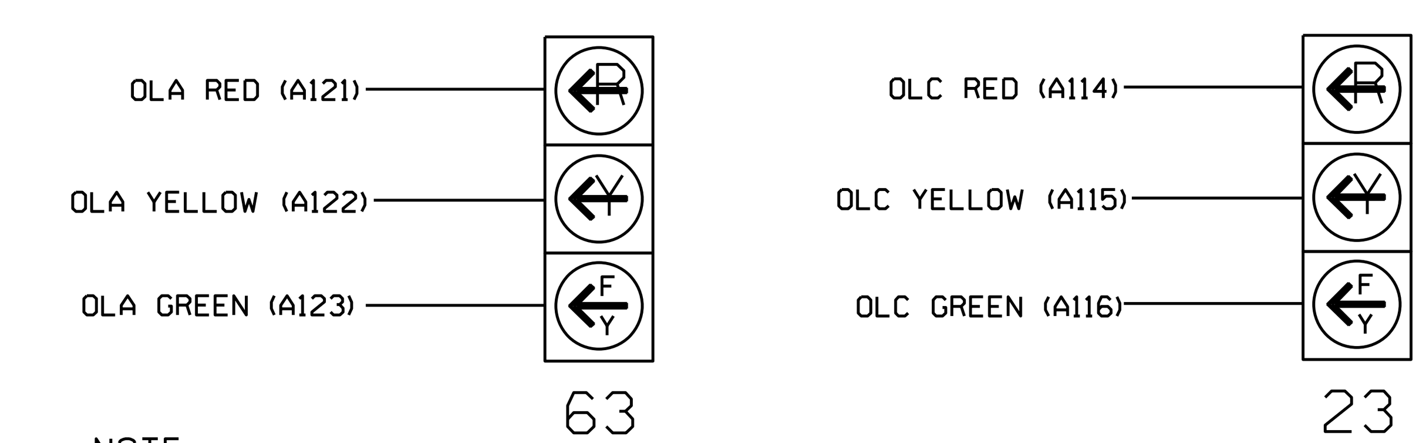
NOTE:
INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

INPUT FILE POSITION LEGEND: J2L

FILE J
SLOT 2
LOWER

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

1. See sheet 2 of 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0129
DESIGNED: May 2025
SEALED: 06-19-25
REVISED: N/A

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

ADVANCE WALK NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phases 2, 4, 6 and 8 for 'Advanced Walk'. Make sure the Walk Advance Time shown on the Signal Design plans are programmed in the 'Phase Timing' menu.

Electrical Detail - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Transportation Mobility and Safety Division
State of North Carolina Department of Transportation
Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1725 (University Parkway) at 14th Street

Division 9 | Forsyth County | Winston-Salem

PLAN DATE: May 2025	REVIEWED BY:
PREPARED BY: James Peterson	REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036833 RYAN W. HOUGH
Signed by: Ryan W. Hough
430320EAA2654C3...
SIGNATURE 06/19/2025 DATE

SIG. INVENTORY NO. 09-0129

PEDESTRIAN DETECTOR ASSIGNMENT PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '7' (DETECTORS), THEN '2' (PEDESTRIAN DETECTOR ASSIGNMENTS). PRESS '+' UNTIL PED DETECTOR #4 IS REACHED.

```
PED DETECTOR #4  SETTINGS   (+/- DET)
PHASE#          ¦12345678910111213141516
PHASES ASSIGNED ¦   X   X
SETTING:                          (Y/N)
ENABLE DETECTOR....................Y
ENABLE LOGGING.....................Y
ENABLE DIAGNOSTICS.................N
RECALL IF FAILED...................Y
MAX CALLS/MINUTE (0-255)...........255
MAX CALLS/DIAG PERIOD (0-255).......0
MAX OCCUPANCY % (0-100%)...........100
```

FROM MAIN MENU PRESS '7' (DETECTORS), THEN '2' (PEDESTRIAN DETECTOR ASSIGNMENTS). PRESS '+' UNTIL PED DETECTOR #8 IS REACHED.

```
PED DETECTOR #8  SETTINGS   (+/- DET)
PHASE#          ¦12345678910111213141516
PHASES ASSIGNED ¦   X   X
SETTING:                          (Y/N)
ENABLE DETECTOR....................Y
ENABLE LOGGING.....................Y
ENABLE DIAGNOSTICS.................N
RECALL IF FAILED...................Y
MAX CALLS/MINUTE (0-255)...........255
MAX CALLS/DIAG PERIOD (0-255).......0
MAX OCCUPANCY % (0-100%)...........100
```

PED PROGRAMMING COMPLETE

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:¦ X
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?...N
GREEN EXTENSION (0-255 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

PRESS '+' TWICE

```
 PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
 PHASE:         ¦12345678910111213141516
VEH OVL PARENTS:¦     X
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?...N
GREEN EXTENSION (0-255 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

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 09-0129
DESIGNED: May 2025
SEALED: 06-19-25
REVISED: N/A

Electrical Detail - Sheet 2 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of: Transportation Mobility and Safety Division, Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

Sr 1725 (University Parkway)
at
14th Street

Division 9 — Forsyth County — Winston-Salem

PLAN DATE: May 2025 — REVIEWED BY:

PREPARED BY: James Peterson — REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036833 RYAN W. HOUGH

Signed by: Ryan W. Hough — 06/19/2025

SIGNATURE — DATE

SIG. INVENTORY NO. 09-0129