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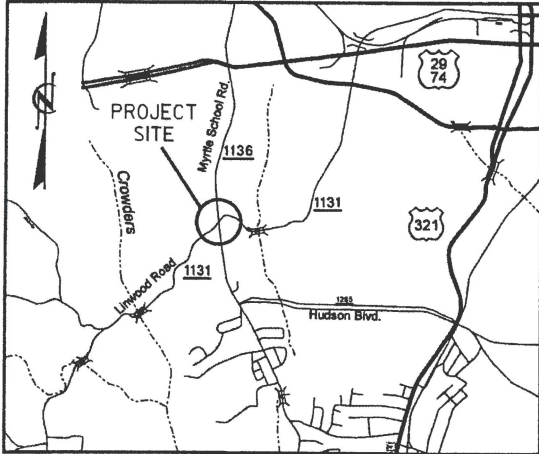
09/08/24

19-MAR-2026 09:47
St:\DDC\Design\Gaston\W-5712M Myrtle School at Linwood - SS\Design\Final\CADD Files\W-5712M_Rdy_tsh.dgn
DKSowell AT DMZ-329486

TIP PROJECT: W-5712M

CONTRACT: DL00386

See Sheet 1A For Index of Sheets



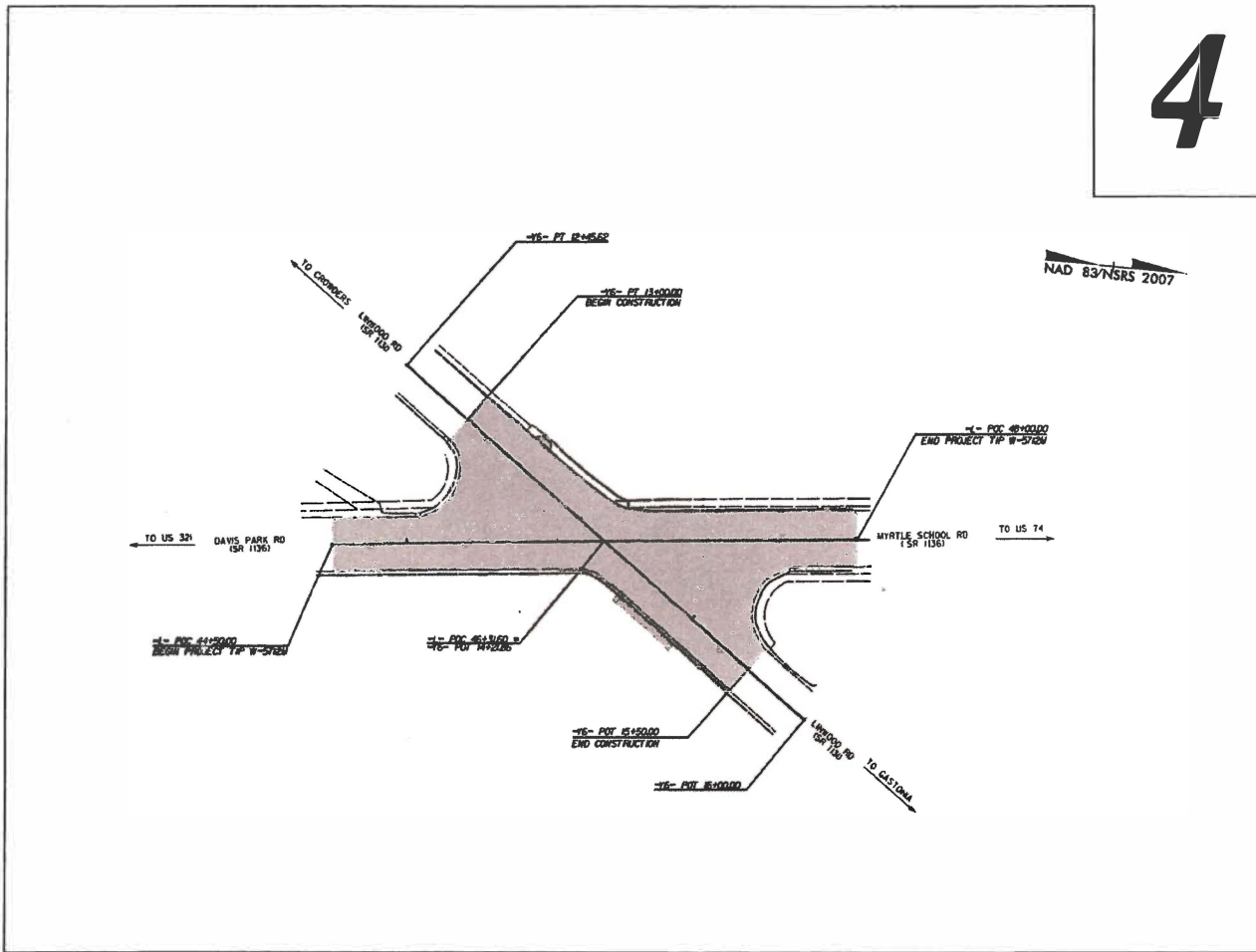
VICINITY MAP - NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
GASTON COUNTY

**LOCATION: INTERSECTION OF MYRTLE SCHOOL RD/DAVIS PARK RD. (SR 1136)
AND LINWOOD RD. (SR 1131).**

**TYPE OF WORK: CONCRETE ISLANDS, SIDEWALKS, CURB RAMPS
AND PAVEMENT MARKINGS.**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5712M	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44858.1.13	HSIP-1136 (012)	PE	
44858.3.13	HSIP-1136 (012)	CONST	



4

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2022 = 12,500
D = 3 %
T = 8 % *
V = 40 MPH
* TTST = 3% DUAL 5%
FUNC CLASS =
URBAN COLLECTOR

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT TIP W-5712M = 0.066 MI.
TOTAL LENGTH OF TIP PROJECT W-5712M = 0.066 MI.

Prepared in the Office of:

DIVISION 12 DDC

1710 E. Marion St., Shelby NC, 28150

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
July 14, 2026

BRYAN K.D. SOWELL, PE
PROJECT ENGINEER

J.S. CARPENTER
PROJECT DESIGN ENGINEER



03/21/2026

**ROADWAY DESIGN
ENGINEER**

DocuSigned by:
Bryan Sowell, P.E.
SIGNATURE: [Signature]



29-MAR-2026 17:00
SS\NOC District 1, Gaston\W-5712M Myrtle School at Linwood - SS\Design\Final CADD Files\W-5712M_Rdy.psh.ladgn
Browne AT DIVI2-32446

PROJECT REFERENCE NO.	SHEET NO.
W-5712M	1A

ROADWAY DESIGN
ENGINEER



Noted by:
Bryan Sowers

03/03/2006

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
4	PLAN SHEET
TMP-1 THRU TMP-1B	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAYEMENT MARKING PLANS
EC-1 THRU EC-2	EROSION CONTROL PLANS
SIGN-1 THRU SIGN- 3	SIGNING PLANS
SIG-1.0 THRU SIG- 1.2	SIGNAL PLANS

GENERAL NOTES: 2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

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 ATT, PSNC, SPECTRUM,
AND THE CITY OF GASTONIA.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06. IF FIELD CONDITIONS DICTATE THAT STANDARDS CAN NOT BE MET, CONSTRUCT AN ALTERNATE CURB RAMP USING DETAILS INCLUDED ON PLANSHEET.

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 8 - INCIDENTALS	
840.54	Manhole Frame and Cover
848.01	Concrete Sidewalk (Use Detail in Lieu of Standard for Sheet 1 of 1)
848.06	Curb Ramp (Use Details in Lieu of Standards for Sheets 9 and 10 of 13)
852.01	Concrete Islands

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY & PROJECT CONTROL:

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

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	_____ 
Single Shrub	_____ 

Hedge	_____ 
Woods Line	_____ 
Orchard	_____ 
Vineyard	_____ 

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	_____ 
Bridge Wing Wall, Head Wall and End Wall	_____ 
MINOR:	
Head and End Wall	_____ 
Pipe Culvert	_____ 
Footbridge	_____ 
Drainage Box: Catch Basin, DI or JB	_____ 
Paved Ditch Gutter	_____ 
Storm Sewer Manhole	_____ 
Storm Sewer	_____ 

UTILITIES:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

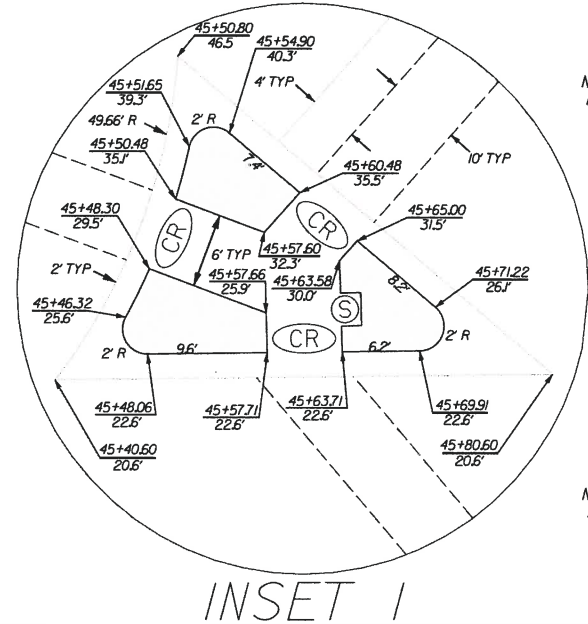
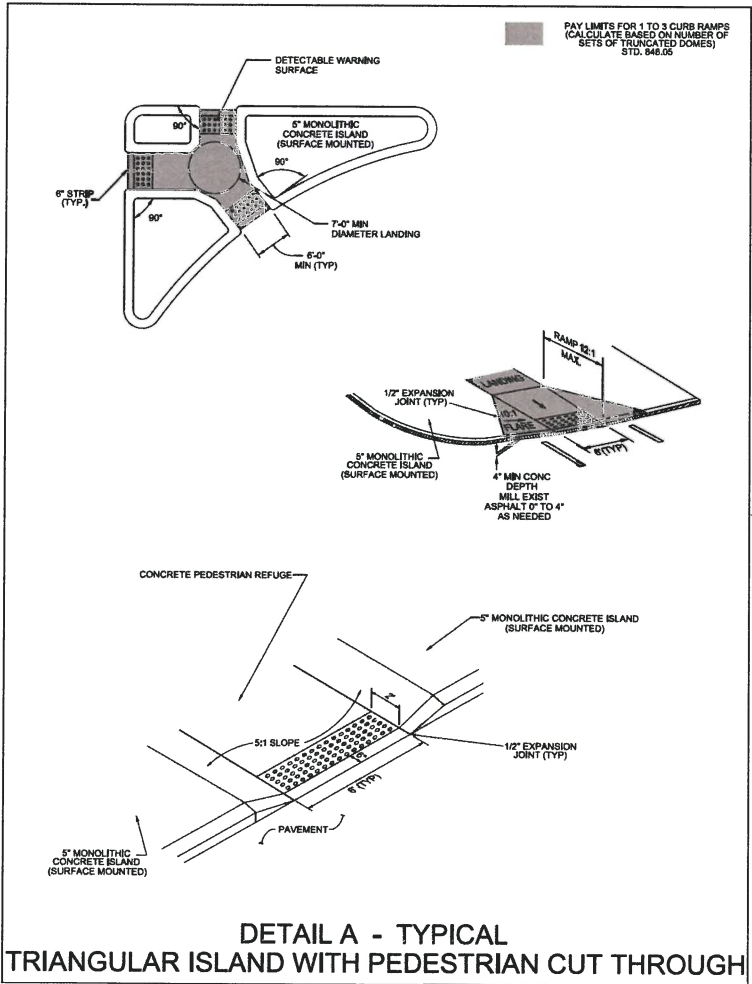
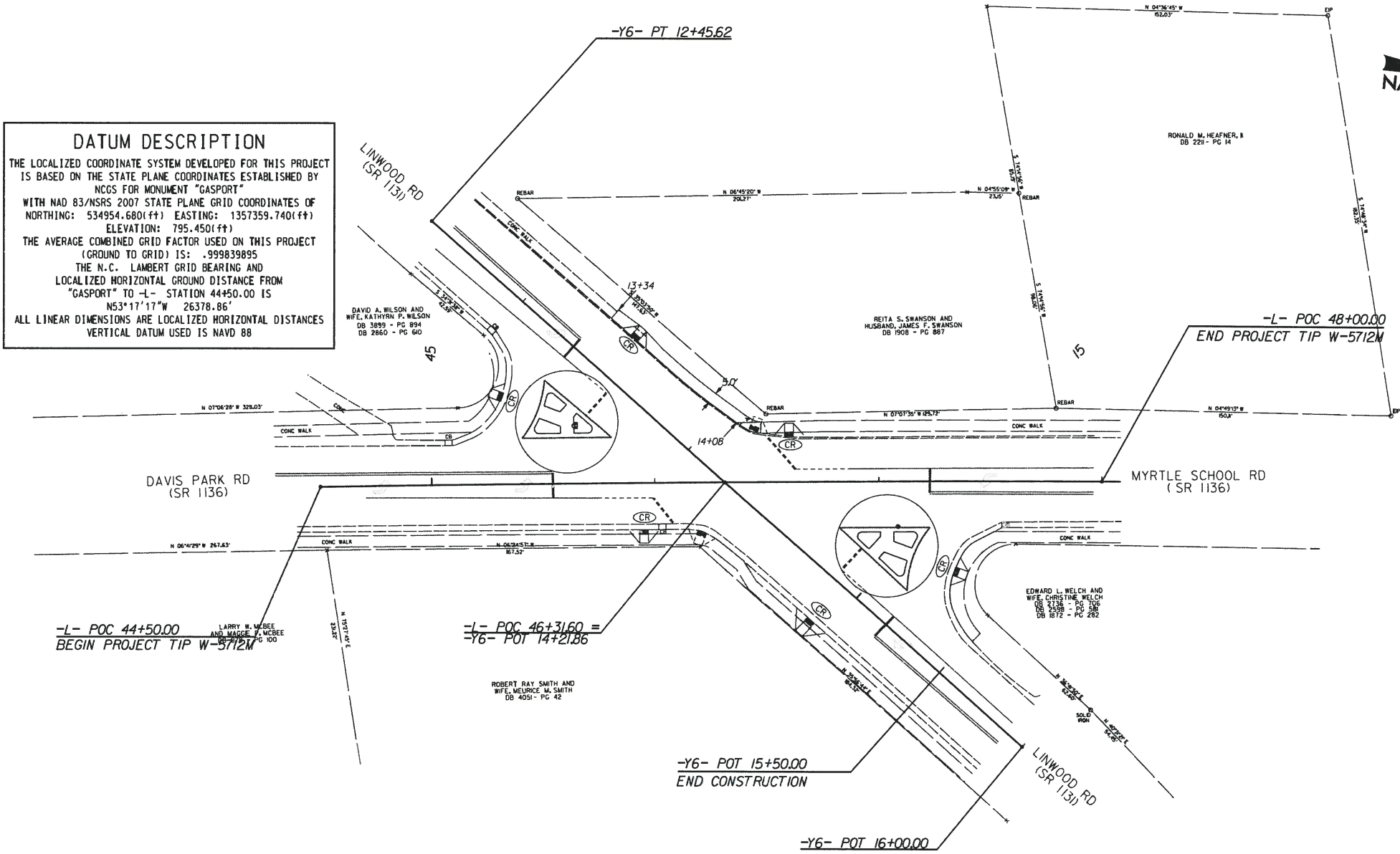
MISCELLANEOUS:

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

5/14/99

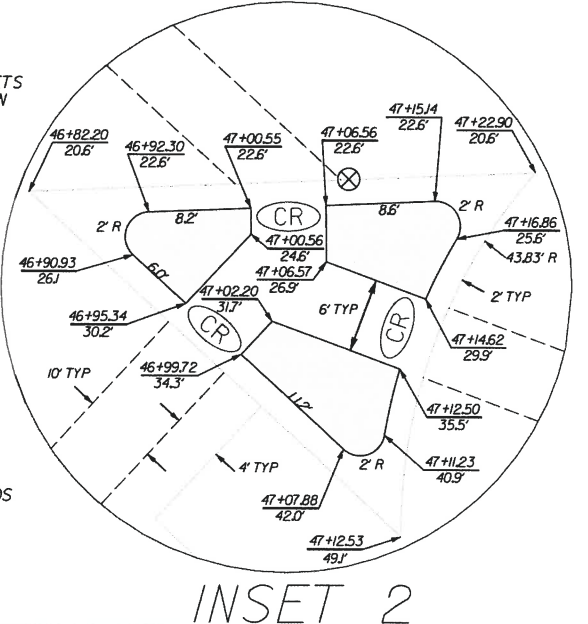
19-MAR-2026 15:14
p:\w-5712m\myrtle school rd\5712m_Rdy-ps-h-4.dgn
bksowen AT DMT-35846

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCOS FOR MONUMENT "GASPORT"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 534954.680(±) EASTING: 1357359.740(±)
ELEVATION: 795.450(±)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: .999839895
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GASPORT" TO -L- STATION 44+50.00 IS
N53°17'17"W 26378.86'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



NOTE: ALL STATIONS AND OFFSETS FOR CONCRETE ISLANDS SHOWN IN INSETS 1 AND 2 ARE FROM THE -L- ALIGNMENT.

NOTE: THESE CONCRETE ISLANDS AND CURB RAMPS ARE TO BE CONSTRUCTED IN THE SAME FOOTPRINT AS THE EXISTING PAINTED ISLANDS



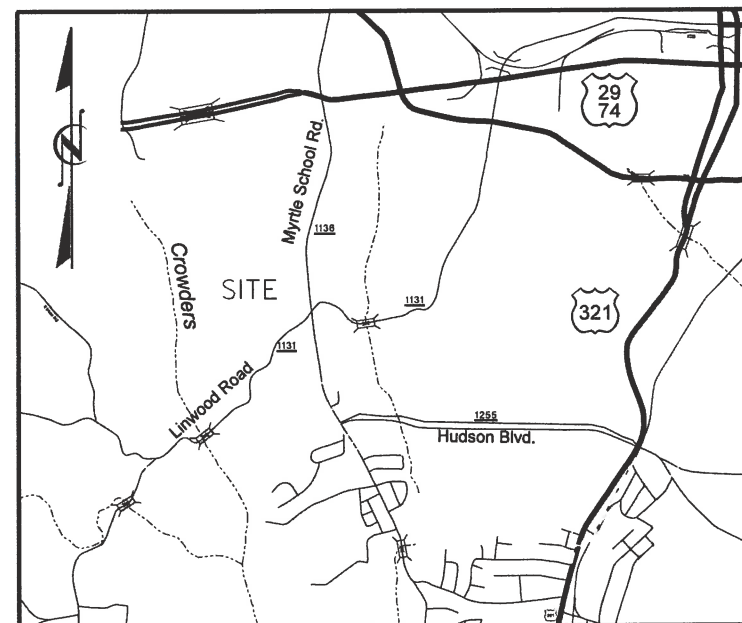
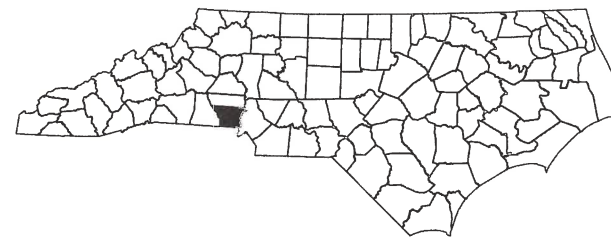
NOTE: SOME CONTROL POINTS MAY BE OUTSIDE PROJECT LIMITS.

BL	POINT	DESC.	NORTH	EAST	ELEVATION
60	BL-60		550896.9636	1336224.6502	766.56
61	BL-61		550461.6435	1336275.4239	769.96
62	BL-62		551113.7905	1336398.9963	763.32
63	BL-63		551190.2800	1336191.7962	764.43
29	BY7-29		550623.2592	1335993.2259	761.00

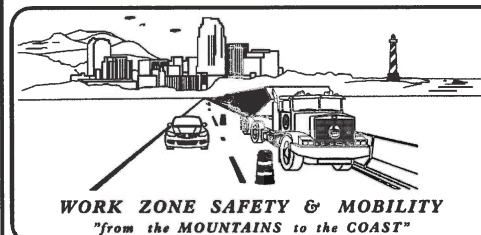
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GASTON COUNTY



VICINITY MAP - NOT TO SCALE



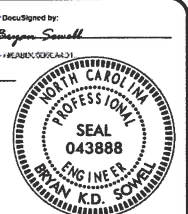
INDEX OF SHEETS

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)

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APPROVED: _____
DATE: 03/21/2026

SEAL



SHEET NO.

TMP-1

W-5712M

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

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

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

APPROVED: 
DATE: 03/21/2026

SEAL




ROADWAY STANDARD
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL
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MANAGEMENT STRATEGIES

ACCESS TO ALL BUSSINESSES WITHIN THE PROJECT LIMITS MUST BE MAINTAINED AT ALL TIMES

WORK TO BE COMPLETED WITH THE USE OF TEMPORARY LANE CLOSURES PER STD. 1101.02, ADHEARING TO DAY AND TIME RESTRICTIONS IN THE CONTRACT AND THE TRAFFIC CONTROL GENERAL NOTES.

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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
ANY ROADS	MONDAY THRU FRIDAY 7:00 AM TO 9:00 AM & 4:00 PM TO 6:00 PM

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

ROAD NAME
ANY 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 P.M. DECEMBER 31st TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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

TRAFFIC PATTERN ALTERATIONS

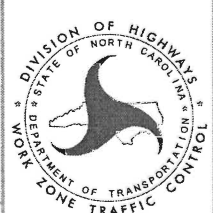
- NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

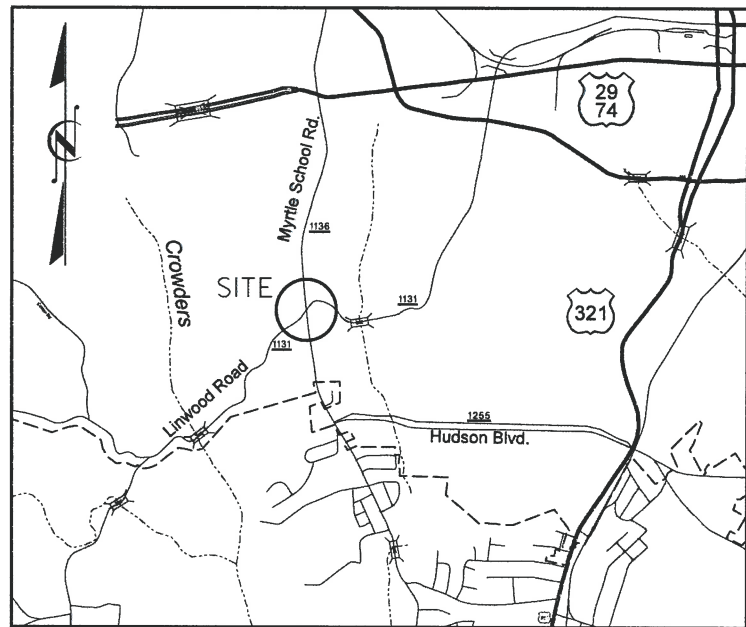
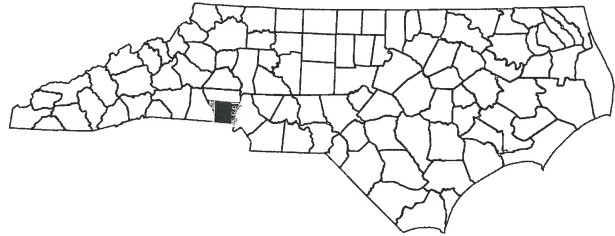
APPROVED:  DATE: 03/21/2026 SEAL  DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		TRANSPORTATION OPERATIONS PLAN
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\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$EDON\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

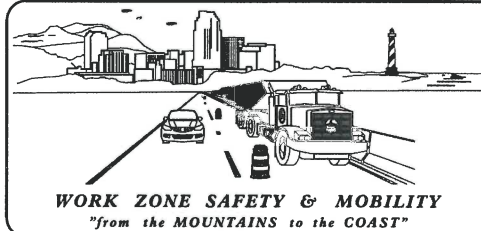
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN

GASTON COUNTY



VICINITY MAP - NO SCALE



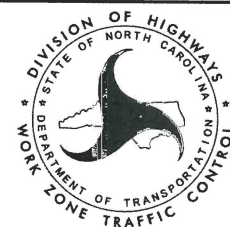
PLANS PREPARED BY:

J.S. CARPENTER

NCDOT CONTACTS:

BRYAN K.D. SOWELL, PE
PROJECT ENGINEER

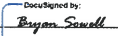
J.S. CARPENTER
PROJECT DESIGN ENGINEER



INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
PMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
PMP-2	PAVEMENT MARKING PLANS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED: 
DATE: 03/21/2026

SEAL



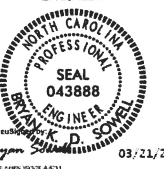
SHEET NO.
PMP-1

W-5712M

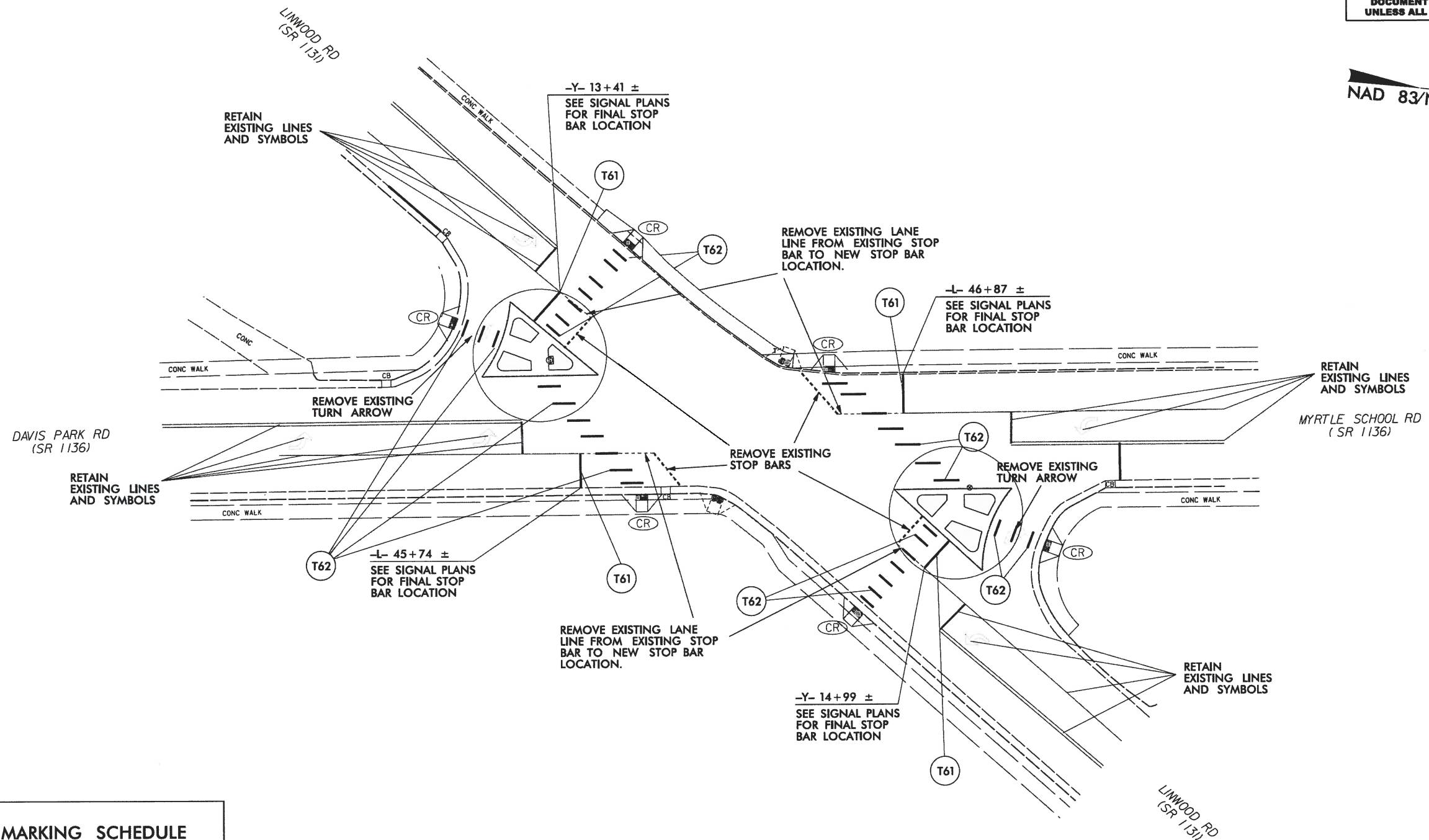
TIP PROJECT:

8/17/99

20-MAR-2026 17:39
S:\DDC\District 1\Geogisn\W-5712M Myrtle School at Linwood - SS\Design\Final CADD Files\W-5712M_PMP-2.dgn
Resona AT DWM2-35946

PROJECT REFERENCE NO. W-5712M	SHEET NO. PMP-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83/NSRS 2007



PAVEMENT MARKING SCHEDULE
FINAL PAVEMENT MARKINGS

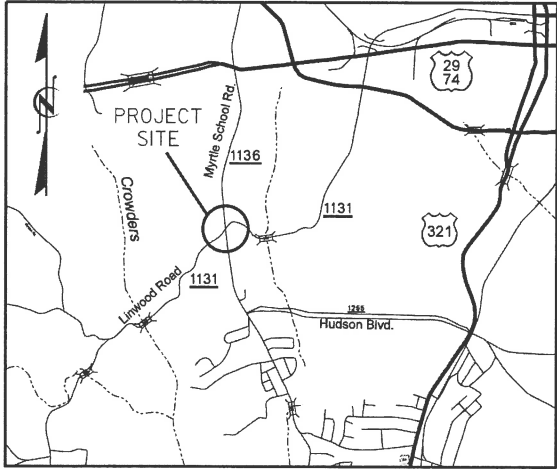
THEROMPLASTIC (24", 90 MILS)
HIGHLY REFLECTIVE ELEMENTS

- (T61) ——— STOP BAR
- (T62) ——— HI-VISIBILITY CROSSWALK

20-MAR-2026 16:26 S:\DDC\District\Gaston\W-5712M Myrtle School at Linwood - SS\Design\Final CADD Files\W-5712M_EC_EC-1.dgn bksowell AT DIV12-329461

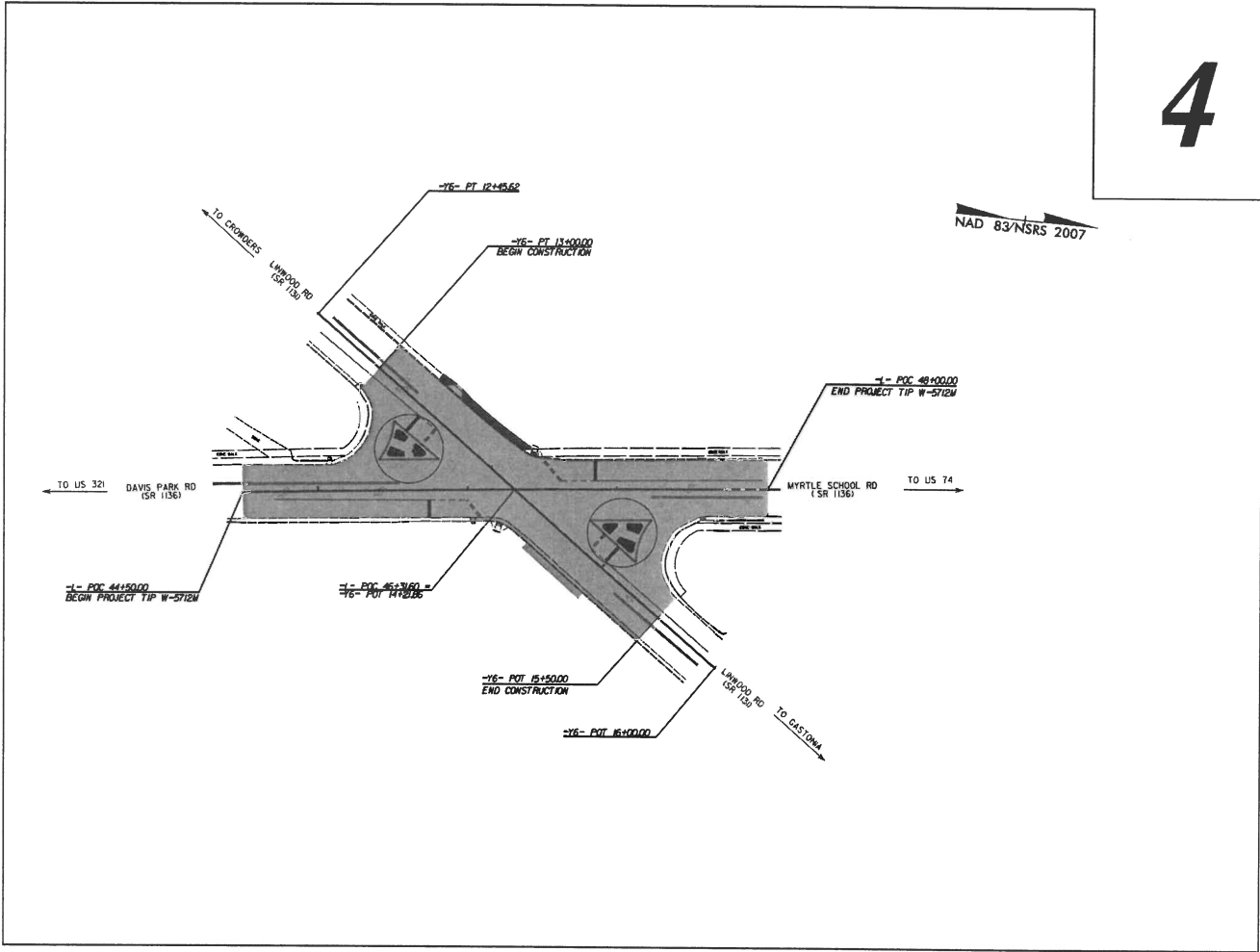
TIP PROJECT: W-5712M

See Sheet 1A For Index of Sheets



VICINITY MAP - NOT TO SCALE

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



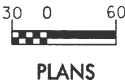
4

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5712M	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44858.1.13	HSIP-1136 (012)	PE	
44585.3.13	HSIP-1136 (012)	CONST	

EROSION AND SEDIMENT CONTROL MEASURES
Std. # Description Symbol

1605.01 Temporary Silt Fence.....

GRAPHIC SCALE



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

Prepared In the Office of:
DIVISION 12 DDC UNIT
1710 East Marion St.
Shelby, NC 28152
2024 STANDARD SPECIFICATIONS

Roadway Standard Drawings
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.
1605.01 Temporary Silt Fence

09/08/99

19-MAR-2026 16:10 S:\DDC\Drawings\Gaston\W-5712M_Myrtle_School_at_Linwood - SS\Design\Final CADD Files\W-5712M_Sgn_SGN_1.dgn bksowell AT DIV12-329446L

TIP PROJECT: W-5712M

CONTRACT: DL00212

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
W-5712M	1



SINGING PLANS, GASTON COUNTY

LOCATION: INTERSECTION OF MYRTLE SCHOOL RD/DAVIS PARK RD. (SR 1136)
AND LINWOOD RD. (SR 1131).

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS THEY APPEAR IN "ROADWAY STANDARD DRAWINGS" -
PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C. DATED
JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE HEREBY 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

GENERAL NOTES

ALL SIGNS FURNISHED BY CONTRACTOR.

WHEN NOT STATIONED OR DIMENSIONED ON PLANS, SEE ROADWAY
STANDARD DRAWINGS FOR SPACING REQUIREMENTS, OR FIELD
LOCATE BY THE ENGINEER.

THE BACKGROUND FOR TYPE E SIGNS SHALL BE GRADE C
REFLECTIVE SHEETING UNLESS OTHERWISE NOTED.

PAY ITEM NOTES

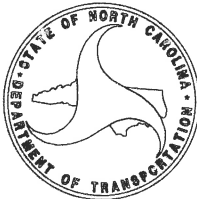
1 SIGN ERECTION, TYPE D, E OR F.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE E SIGN SHEET
SIGN-3	FINAL SINGING

SUMMARY OF QUANTITIES

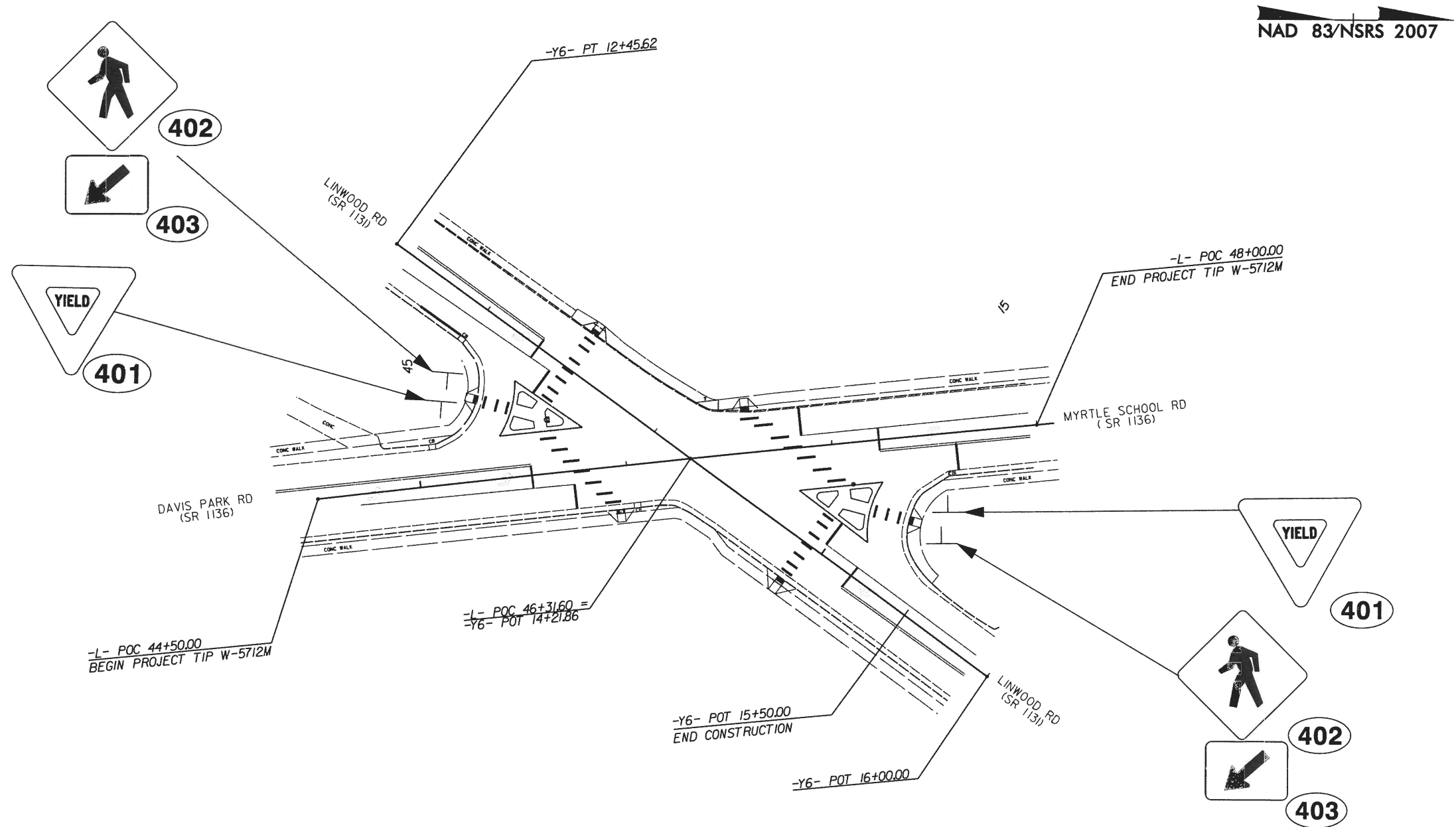
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000-E	901	CONTRACTOR FURNISHED, TYPE E SIGN SUPPORTS, 3-LB STEEL U-CHANNEL SIGN ERECTION, RELOCATE, TYPE E (GROUND MOUNTED)	296	SF
4072000000-E	903		315	LF
4116100000-E	904		4	EA



TYPE E SIGNS

5/14/99
20-MAR-2026 17:28
PM Myrtle School Rd at Linwood
bksowell AT DIVISION 329446

PROJECT REFERENCE NO. W-5712M	SHEET NO. SIGN-3
ROADWAY DESIGN ENGINEER	
	
Bryan K.D. Sowell 03/21/2026	



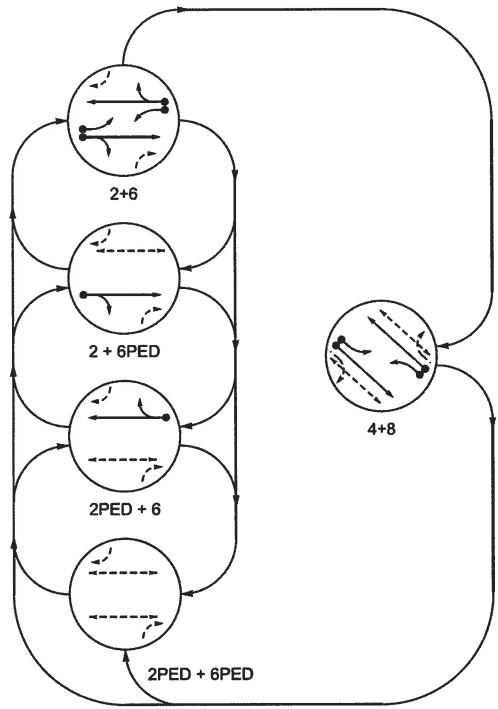
FINAL SIGNING
SR 1136 (MYRTLE SCHOOL RD.) AT
SR 1131 (LINWOOD RD.)

5 Phase
Fully Actuated
Gastonia City System

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Renumber existing loops 2A and 6A to 2B and 6B, respectively.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

PHASING DIAGRAM



SIGNAL FACE I.D.

All Heads L.E.D.

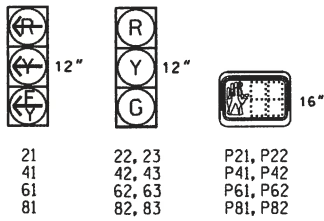


TABLE OF OPERATION

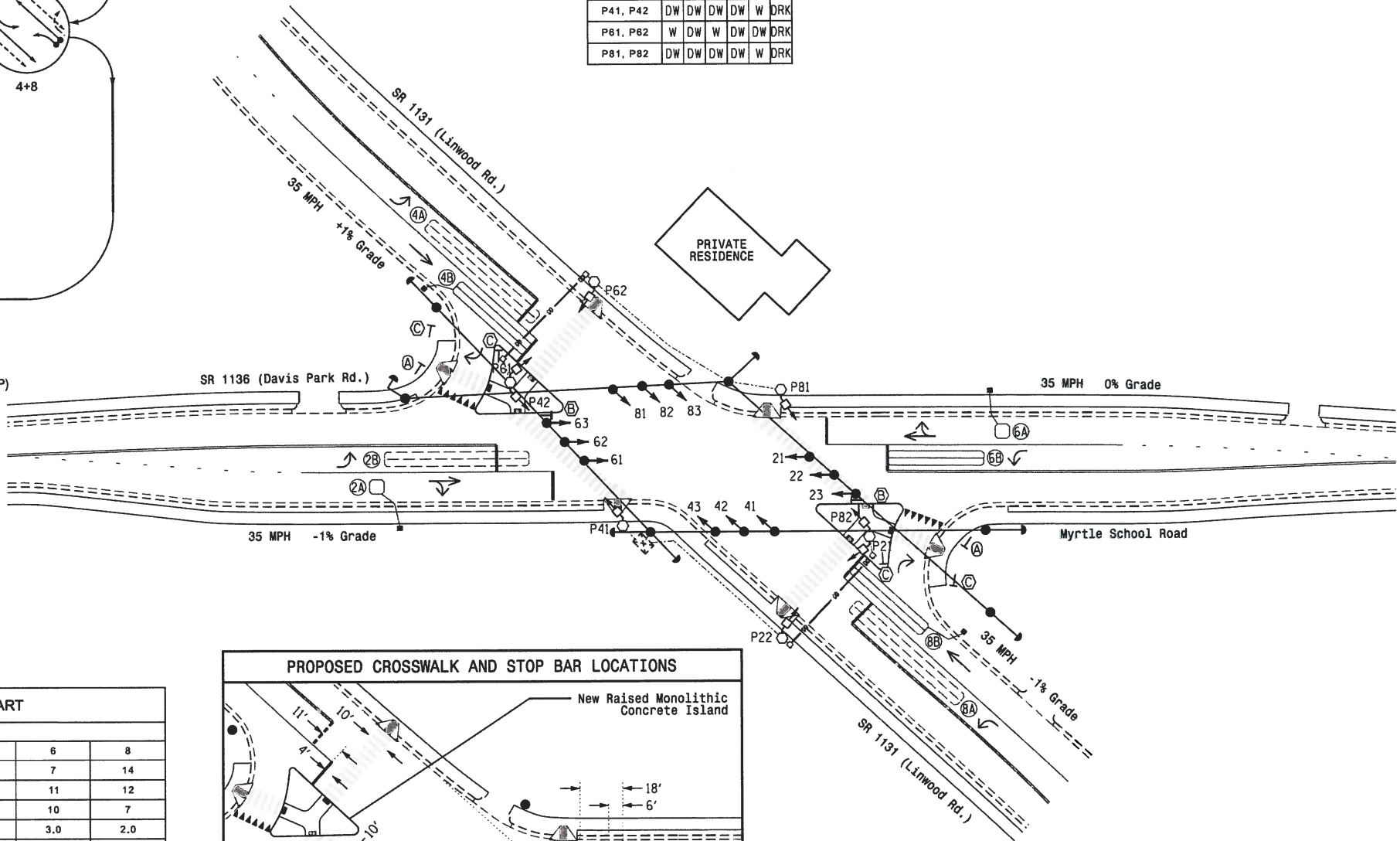
SIGNAL FACE	Left Turn + Through	Through + Right	Left Turn + Through + Right	Left Turn + Through + Right + Ped	Left Turn + Through + Right + Ped + Bypass
21	+	+	+	+	+
22, 23	R	R	G	G	R
41	+	+	+	+	+
42, 43	R	R	R	R	G
61	+	+	+	+	+
62, 63	R	G	R	G	R
81	+	+	+	+	+
82, 83	R	R	R	R	G
P21, P22	W	W	DW	DW	DRK
P41, P42	DW	DW	DW	DW	DRK
P61, P62	W	DW	W	DW	DRK
P81, P82	DW	DW	DW	DW	DRK

MAXTIME DETECTOR INSTALLATION CHART

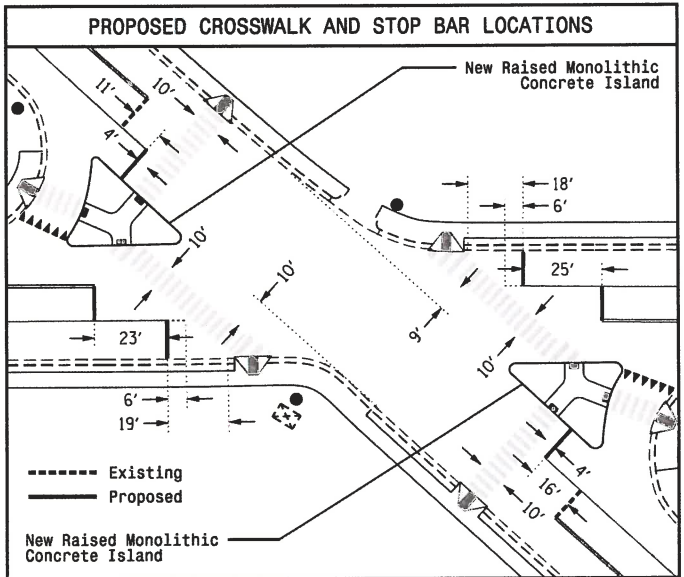
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	PROGRAMMING					
					CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DELAY DURING GREEN
2A	6X6	70	3	X	2	-	-	X	-	-
2B	6X60	+13	2-4-2	-	2	-	-	X	-	-
4A	6X60	+5	2-4-2	-	4	3.0	-	X	-	-
4B	6X40	0	2-4-2	X	4	3.0	-	X	-	-
6A	6X6	70	4	X	6	-	-	X	-	-
6B	6X40	0	2-4-2	X	6	-	-	X	-	-
8A	6X60	+5	2-4-2	-	8	3.0	-	X	-	-
8B	6X40	0	2-4-2	X	8	3.0	-	X	-	-

PHASING DIAGRAM DETECTION LEGEND

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



PROPOSED CROSSWALK AND STOP BAR LOCATIONS



LEGEND

- | PROPOSED | EXISTING |
|--|--------------------------------|
| Traffic Signal Head | Modified Signal Head |
| Sign | Sign |
| Pedestrian Signal Head With Push Button & Sign | Signal Pole with Guy |
| Signal Pole with Guy | Signal Pole with Sidewalk Guy |
| Inductive Loop Detector | Controller & Cabinet |
| Junction Box | 2-in Underground Conduit |
| Right of Way | Directional Arrow |
| Type II Signal Pedestal | "YIELD" Sign (R1-2) |
| Curb Ramp | "NO TURN ON RED" SIGN (R10-11) |
| Pedestrian Crossing Sign (W11-2) w/ Downward Arrow Plaque (W16-TP) | |

MAXTIME TIMING CHART

FEATURE	2	4	6	8
Walk *	7	13	7	14
Ped Clear	11	12	11	12
Min Green *	10	7	10	7
Passage *	3.0	2.0	3.0	2.0
Max 1 *	45	25	45	25
Yellow Change	3.9	3.9	3.9	3.9
Red Clear	2.3	3.1	2.3	3.1
Added Initial *	-	-	-	-
Maximum Initial *	-	-	-	-
Time Before Reduction *	-	-	-	-
Time To Reduce *	-	-	-	-
Minimum Gap	-	-	-	-
Advance Walk	-	6	-	7
Non Lock Detector	-	X	-	X
Vehicle Recall	MIN RECALL	-	MIN RECALL	-
Dual Entry	-	X	-	X

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 8 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

This plan supersedes the plan signed and sealed on 2/4/2019.

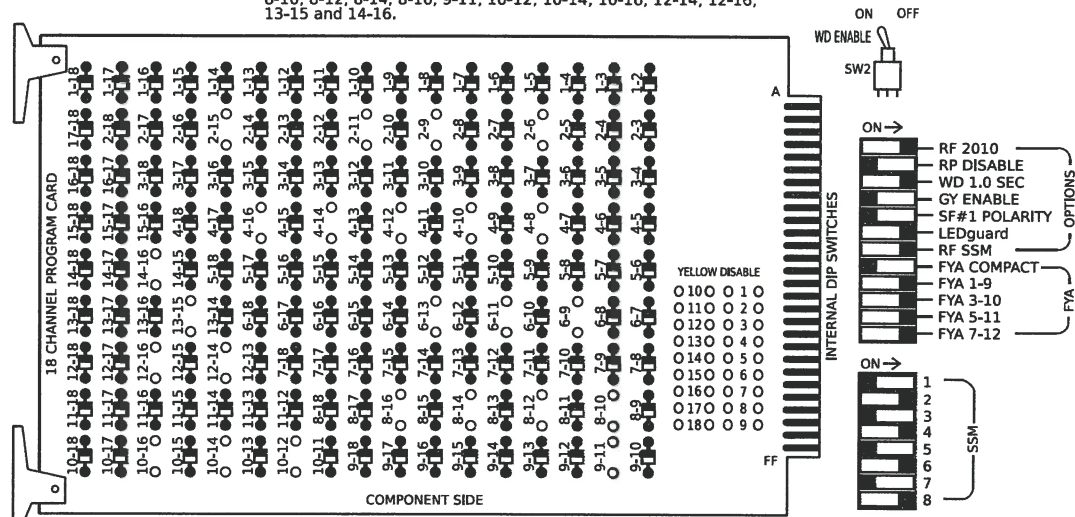
Signal Upgrade

	SR 1136 (Davis Park Rd.) / Myrtle School Road at SR 1131 (Linwood Rd.)		
	Division 12 Gaston County Gastonia		
	PLAN DATE: February 2026	REVIEWED BY: R. N. Zinser	
	PREPARED BY: Adja Fall	REVIEWED BY:	
REVISIONS		INIT.	DATE
1. 02/25/2026			
SCALE 0 30 1"=30'		SIG. INVENTORY NO. 12-0165	

18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-6, 2-9, 2-11, 2-15, 4-8, 4-10, 4-12, 4-14, 4-16, 6-9, 6-11, 6-13, 8-10, 8-12, 8-14, 8-16, 9-11, 10-12, 10-14, 10-16, 12-14, 12-16, 13-15 and 14-16.



REMOVE JUMPERS AS SHOWN

NOTES:

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

NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
- Program phases 4 and 8 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the Gastonia City System.

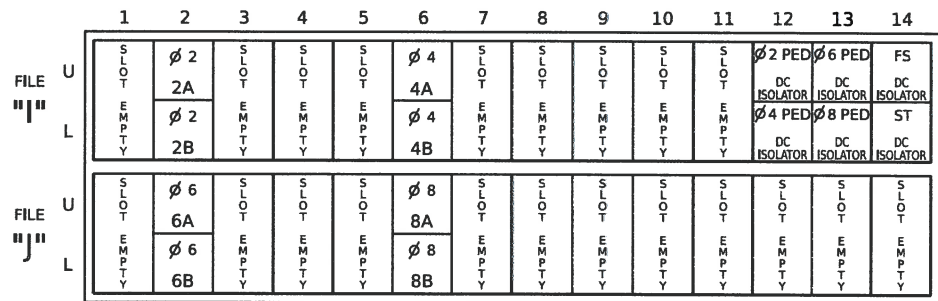
EQUIPMENT INFORMATION

Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
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 S2, AUX S4, AUX S5
Phases Used.....2, 2PED, 4, 4PED, 6, 6PED, 8, 8PED
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
Overlap "4".....*
Overlap "7".....*
Overlap "8".....*

*See overlap programming detail on sheet 2

INPUT FILE POSITION LAYOUT

(front view)



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 POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	TB2-5,6	I2U	39	1	2	2			X		X	
2B	TB2-7,8	I2L	43	5	3	2			X		X	
4A	TB4-9,10	I6U	41	3	8	4	3.0		X		X	
4B	TB4-11,12	I6L	45	7	9	4	3.0		X		X	
6A	TB3-5,6	I2U	40	2	16	6			X		X	
6B	TB3-7,8	I2L	44	6	17	6			X		X	
8A	TB5-9,10	I6U	42	4	22	8	3.0		X		X	
8B	TB5-11,12	I6L	46	8	23	8	3.0		X		X	
PED PUSH BUTTONS												
P21,P22	TB8-4,6	I12U	67	33	2	PED 2						
P41,P42	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						
P81,P82	TB8-8,9	I13L	70	36	8	PED 8						

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

INPUT FILE POSITION LEGEND: J2L



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	OL7	2 PED	3	4	4 PED	5	OL8	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	22,23	P21, P22	NU	42,43	P41, P42	NU	62,63	P61, P62	NU	82,83	P81, P82	61	81	NU	21	41	NU
RED		128			101			134			107							
YELLOW		129			102			135			108							
GREEN		130			103			136			109							
RED ARROW													A121	A124		A114	A101	
YELLOW ARROW													A122	A125		A115	A102	
FLASHING YELLOW ARROW													A123	A126		A116	A103	
GREEN ARROW																		
Hand icon			113		104			119			110							
Walking person icon			115		106			121			112							

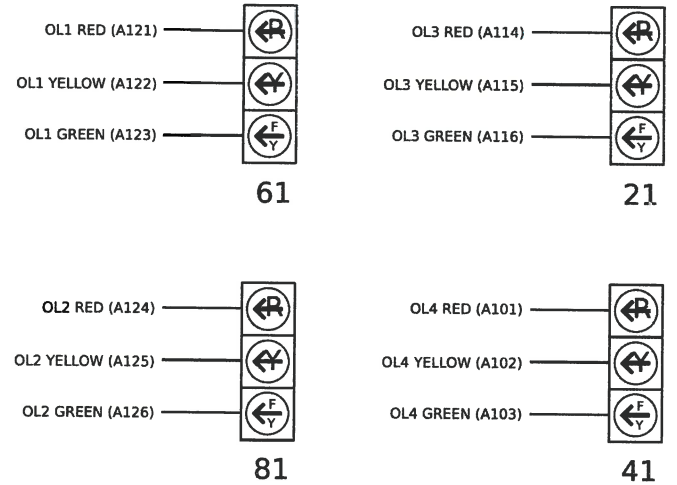
NU = Not Used

*See pictorial of head wiring in detail this sheet.

#Loadswitch reassigned. See OUTPUT CHANNEL CONFIGURATION on sheet 2.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
- REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

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.

Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:	SR 1136 (Davis Park Rd.) / Myrtle School Road at SR 1131 (Linwood Rd.)	Division 12 Gaston County Gastonia
Prepared In the Offices of:	Division 12	PLAN DATE: February 2026
REVISIONS	REVIEWED BY:	REVIEWED BY:
INIT.	DATE	DATE
750 N. Greenfield Pkwy, Garner, NC 27529	Seal of the State of North Carolina	Seal of the State of North Carolina

OVERLAP PROGRAMMING

Front Panel
Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface
Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap (Signal Head No.)	1 (61)	2 (81)	3 (21)	4 (41)	7 (22,23)	8 (62,63)
Type	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	Normal	Normal
Included Phases	2	4	6	8	2	6
Modifier Phases	-	-	-	-	-	-
Modifier Overlaps	-	-	-	-	-	-
Trail Green	0	0	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0	0.0	0.0
Negative Peds	2,6	-	2,6	-	2	6
Min Green	10	0	10	0	10	10

NOTICE
NEGATIVE
PEDS
NOTICE
MIN GREEN

OUTPUT CHANNEL CONFIGURATION

Front Panel
Main Menu >Controller >More>Channels>Channels Config

Web Interface
Home >Controller >Advanced IO>Channels>Channel Configuration

Channel Configuration

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
1	Phase Vehicle	1		X	X	1
2	Overlap	7		X		2
3	Phase Vehicle	3		X	X	3
4	Phase Vehicle	4		X		4
5	Phase Vehicle	5		X		5
6	Overlap	8		X	X	6
7	Phase Vehicle	7		X		7
8	Phase Vehicle	8		X	X	8
9	Overlap	1		X	X	9
10	Overlap	2		X	X	10
11	Overlap	3		X		11
12	Overlap	4		X		12
13	Phase Ped	2				13
14	Phase Ped	4				14
15	Phase Ped	6				15
16	Phase Ped	8				16
17	Overlap	5		X	X	17
18	Overlap	6		X		18

NOTICE 0L7
ASSIGNED
TO CH. 2

NOTICE 0L8
ASSIGNED
TO CH. 6

MAXTIME STARTUP AND SOFTWARE FLASH
PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters
StartUp Clearance Hold
6

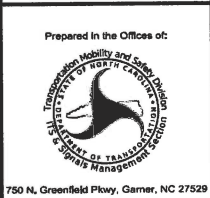
Unit Flash Parameters
All Red Flash Exit Time
6

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-0165
DESIGNED: February 2026
SEALED: 02/25/2026
REVISED: N/A

This plan supersedes the plan
signed and sealed on 02/06/19.

Electrical Detail - Sheet 2 of 2

Electrical and Programming
Details For:



SR 1136 (Davis Park Rd.) / Myrtle School Road at SR 1131 (Linwood Rd.)	
Division 12	Gaston County
PLAN DATE: February 2026	REVIEWED BY:
PREPARED BY: Tim Langston	REVIEWED BY:
REVISIONS	INT. DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001 D. TODD JOYE
Discussed by: 02/26/2026 DATE D. Todd Joye
SIG. INVENTORY NO. 12-0165