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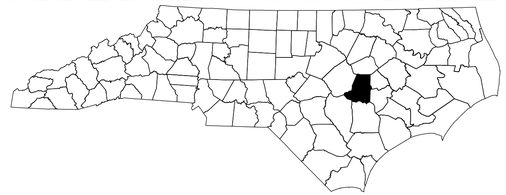
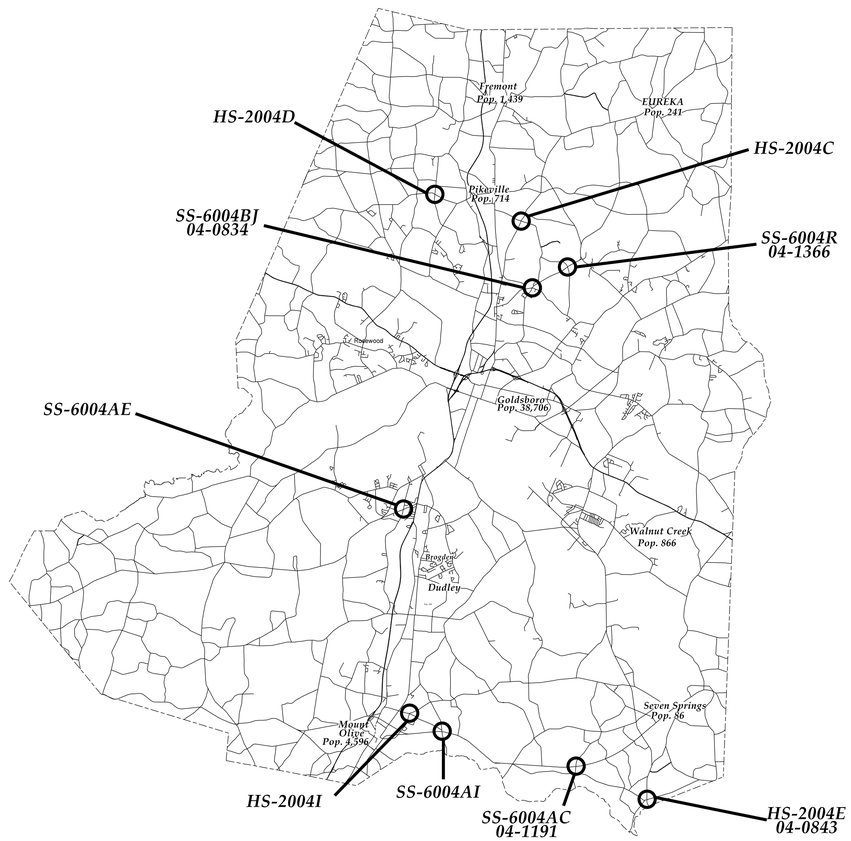
# STATE OF NORTH CAROLINA
# DIVISION OF HIGHWAYS

# ALL WAY STOP INSTALLATIONS

**DESCRIPTION OF WORK: Signing, Pavement Markings and Overhead Beacon Signals**

# WAYNE COUNTY






## INDEX OF SHEETS


| SHEET NO. | TITLE |
|---|---|
| 1 | TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS<br>LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS |
| | Signing, Pavement Marking and Overhead Beacon Signal Plans |
| HS-2004C | SR 1537 (Airport Rd) at SR 1545 (Mt. Carmel Church Rd) |
| HS-2004D | SR 1002 (Pikeville-Princeton Rd) at SR 1320 (Hinnant Rd) |
| HS-2004E | NC 111 at SR 1754 (Zion Church Rd) |
| SIN #04-0843 | NC 111 at SR 1754 (Zion Church Rd) |
| HS-2004I | SR 1744 (Indian Springs Rd) at SR 1941 (Northeast Church Rd) |
| SS-6004AC | NC 55 SR 1948 (Camp Jubliee Rd) |
| SIN #04-1191 | NC 55 SR 1948 (Camp Jubliee Rd) |
| SS-6004AE | US 13 at SR 1130 (Woodland Church Rd/ Durham Lake Rd) |
| SS-6004AI | NC 55 at SR 1937 (Kelly Springs Rd) |
| SS-6004BJ | NC 111 at SR 1547 (Stoney Creek Church Rd) |
| SIN #04-0834 | NC 111 at SR 1547 (Stoney Creek Church Rd) |
| SS-6004R | NC 111 at SR 1546 (Daw Pate Rd) |
| SIN #04-1366 | NC 111 at SR 1546 (Daw Pate Rd) |


## ROADWAY STANDARD DRAWINGS

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

| STD. NO. | TITLE |
|---|---|
| 852.02 | CONCRETE ISLANDS |
| 904.10 | ORIENTATION OF GROUND MOUNTED SIGNS |
| 904.50 | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |
| 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 |

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

Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signal Design Section


**PLANS PREPARED BY:**

Brendan Lehan, P.E.

Rusty Thompson, P.E. P.T.O.E.

**NCDOT CONTACTS:**

Andy Brown
*PROJECT ENGINEER*

Paul Marak, P.E.
*DIVISION TRAFFIC ENGINEER*

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

*SEAL*

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045256 BRENDAN A. LEHAN 4/22/2020

| SHEET NO. |
|---|
| 1 |

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

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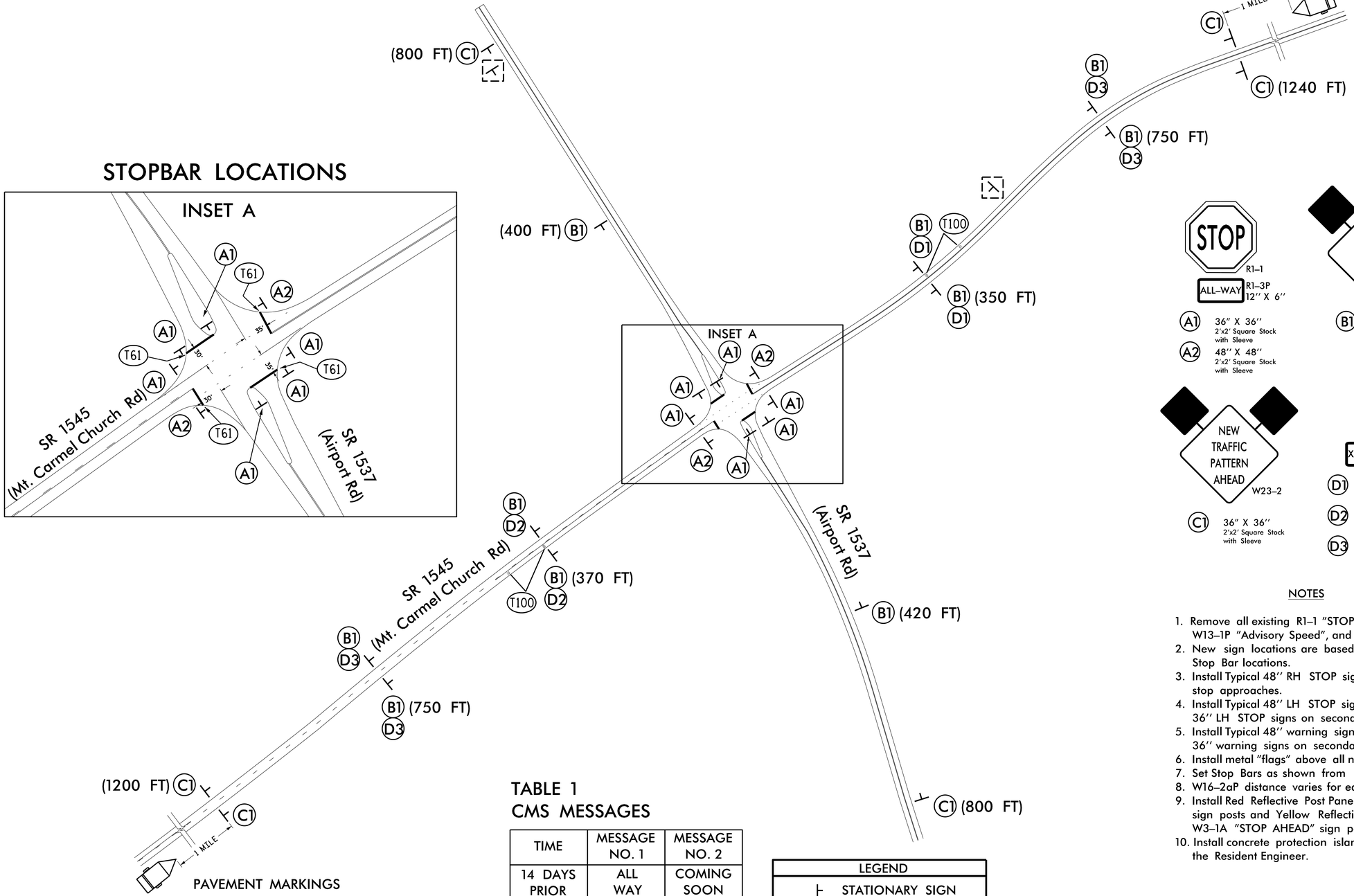


| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

A1 36" X 36" 2'x2' Square Stock with Sleeve

A2 48'' X 48'' 2'x2' Square Stock with Sleeve

B1 36" X 36" 2'x2' Square Stock with Sleeve

C1 36" X 36" 2'x2' Square Stock with Sleeve

D1 350 FT Attach under W3-1A

D2 370 FT Attach under W3-1A

D3 750 FT Attach under W3-1A

## NOTES

1. Remove all existing R1-1 "STOP", W2-1 "Intersection Warning", W13-1P "Advisory Speed", and "W3-1A "STOP AHEAD" signs.
2. New sign locations are based off the proposed Stop Bar locations.
3. Install Typical 48'' RH STOP signs on all new stop approaches.
4. Install Typical 48'' LH STOP signs on primaries and 36'' LH STOP signs on secondaries.
5. Install Typical 48'' warning signs on primaries and 36'' warning signs on secondaries.
6. Install metal "flags" above all new warning signs.
7. Set Stop Bars as shown from edge line extensions.
8. W16-2aP distance varies for each sign location.
9. Install Red Reflective Post Panels on all R1-1 "STOP" sign posts and Yellow Reflective Post Panels on all W3-1A "STOP AHEAD" sign posts.
10. Install concrete protection island as directed by the Resident Engineer.

PAVEMENT MARKINGS

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

| SYMB | DESCRIPTION |
|---|---|
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|---|
| 14 DAYS PRIOR (MIN) | ALL WAY STOP | COMING SOON |
| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- (TXX) PAVEMENT MARKING SYMBOL
- (XX) SIGN SYMBOL

HS-2004C All Way Stop

MOTT MACDONALD
7621 Purfoy Road
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www.mottmac.com
License No. F-0669

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

SCALE 0 100 1"=100'

SR 1537 (Airport Rd) at SR 1545 (Mt. Carmel Church Rd)

Division 4 Wayne Pikeville

PLAN DATE: January 2022 REVIEWED BY:

PREPARED BY: DE Fowler REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 0001A7B0B0B0A7F... SIGNATURE 4/22/2022 DATE

$$$$$$SYSTIME$$$$$$
$$$$$$SYSTIME$$$$$$
$$$$$$USERNAME$$$$$$

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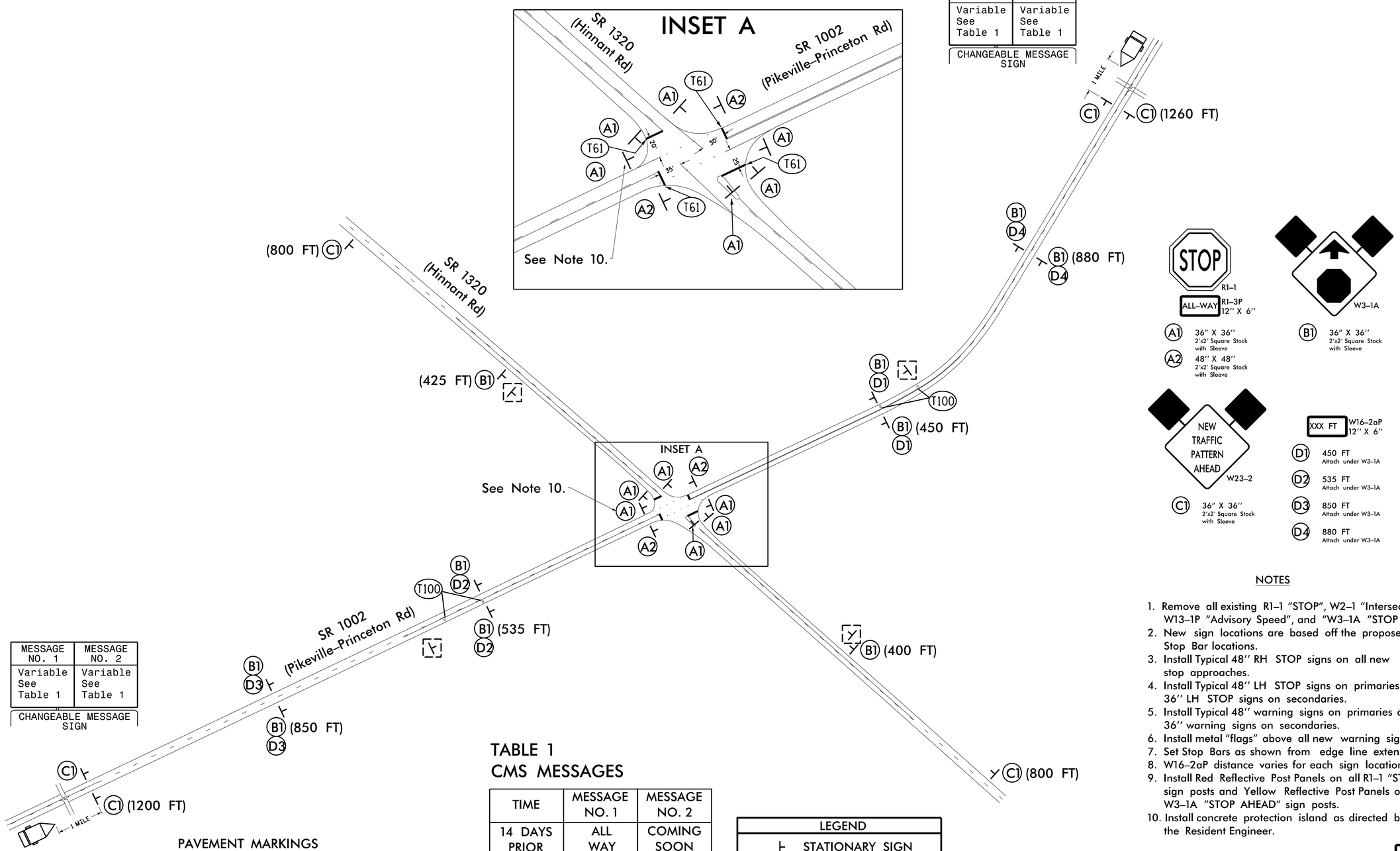
# STOPBAR LOCATIONS







## NOTES

1. Remove all existing R1–1 "STOP", W2–1 "Intersection Warning", W13–1P "Advisory Speed", and "W3–1A "STOP AHEAD" signs.
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9. Install Red Reflective Post Panels on all R1–1 "STOP" sign posts and Yellow Reflective Post Panels on all W3–1A "STOP AHEAD" sign posts.
10. Install concrete protection island as directed by the Resident Engineer.

## PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| T61 | WHITE STOPBAR (24", 90 MIL) |
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## CMS MESSAGES

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| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

## LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- (TXX) PAVEMENT MARKING SYMBOL
- (XX) SIGN SYMBOL

HS-2004D All Way Stop

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

SCALE 0 100 1"=100'

SR 1002 (Pikeville-Princeton Rd) at SR 1320 (Hinnant Rd)

Division 4 Wayne Pikeville

PLAN DATE: January 2022 REVIEWED BY:
PREPARED BY: DE Fowler REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

Brendan Lehan
SIGNATURE 4/22/2022 DATE

$$$

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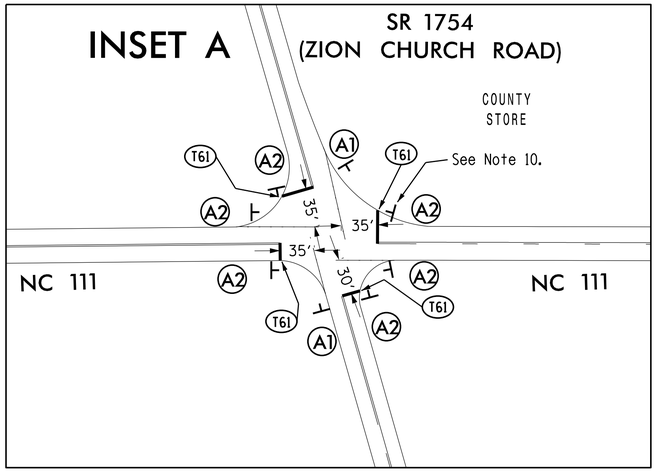
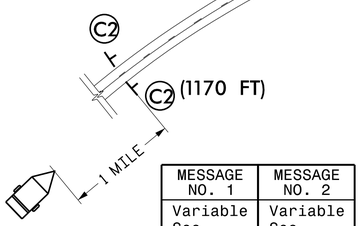
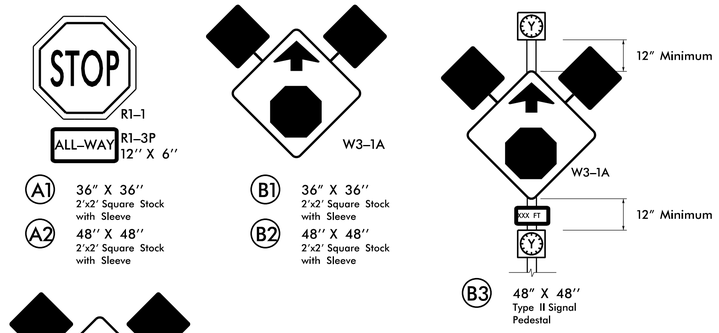
# STOPBAR LOCATIONS




| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
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| 14 DAYS PRIOR (MIN) | ALL WAY STOP | COMING SOON |
| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

| LEGEND | |
|---|---|
| ⊢ | STATIONARY SIGN |
| (XXX FT) | DISTANCE FROM APPROACH STOPBAR |
| [-I-] | REMOVE EXISTING SIGN |
| | CHANGEABLE MESSAGE SIGN (CMS) |
| (TXX) | PAVEMENT MARKING SYMBOL |
| (XX) | SIGN SYMBOL |

PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

NOTES

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HS-2004E All Way Stop

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

SCALE 0 100 1"=100'

NC 111
at
SR 1754 (Zion Church Road)

Division 4 Wayne S. of Seven Springs

PLAN DATE: January 2022 REVIEWED BY: B. A. Lehan
PREPARED BY: I.N. Avery REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

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Brendan Lehan
SIGNATURE 4/22/2022 DATE

$$$$$$SYSTIME$$$$$$
$$$$$$SSSS

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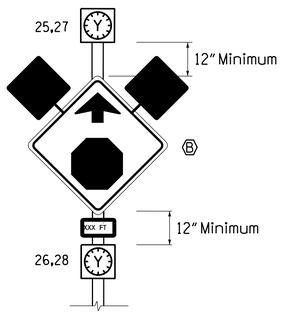
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| HS-2004E | Sig. 1.0 |

## TABLE OF OPERATION

| SIGNAL FACE | INTERVAL 1 | INTERVAL 2 |
|---|---|---|
| 21,23 | ON | OFF |
| 22,24 | OFF | ON |
| 25,27 | ON | OFF |
| 26,28 | OFF | ON |
| 11,13 | ON | OFF |
| 12,14 | OFF | ON |

## SIGN "B" WITH WARNING BEACONS



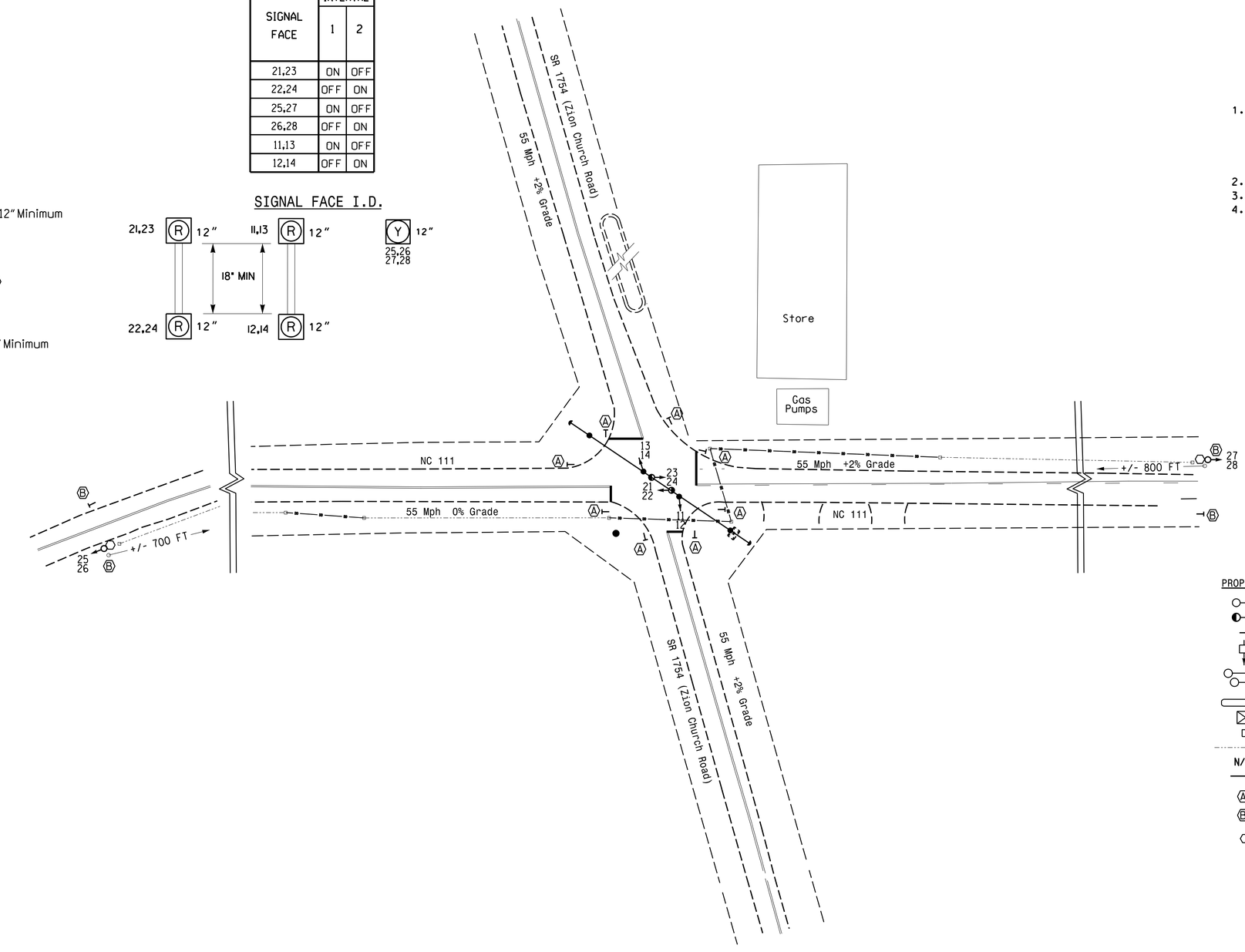

## SIGNAL FACE I.D.




Beacon

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Flash all beacons continuously.
3. Revise heads 21.22.23.24.
4. Refer to HS-2004E Signing Plans for additional signing requirements.




## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Sign | |
| | Pedestrian Signal Head With Push Button & Sign | |
| | Signal Pole with Guy | |
| | Signal Pole with Sidewalk Guy | |
| | Inductive Loop Detector | |
| | Controller & Cabinet | |
| | Junction Box | |
| | 2-in Underground Conduit | |
| N/A | Right of Way | |
| | Directional Arrow | |
| | "STOP" Sign (R1-1) | |
| | Stop Ahead Sign (W3-1A) | |
| | Type II Signal Pedestal | |

Signal Upgrade

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www.mottmac.com
License No. F-0669

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

SCALE 0 40 1"=40'

NC 111
at
SR 1745 (Zion Church Road)

Division 4 Wayne County S. of Seven Springs

PLAN DATE: January 2022 REVIEWED BY: B. A. Lehan
PREPARED BY: I. N. Avery REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan A. Lehan
0207AB72C0B48F...
4/22/2022
DATE

SIG. INVENTORY NO. 04-0843

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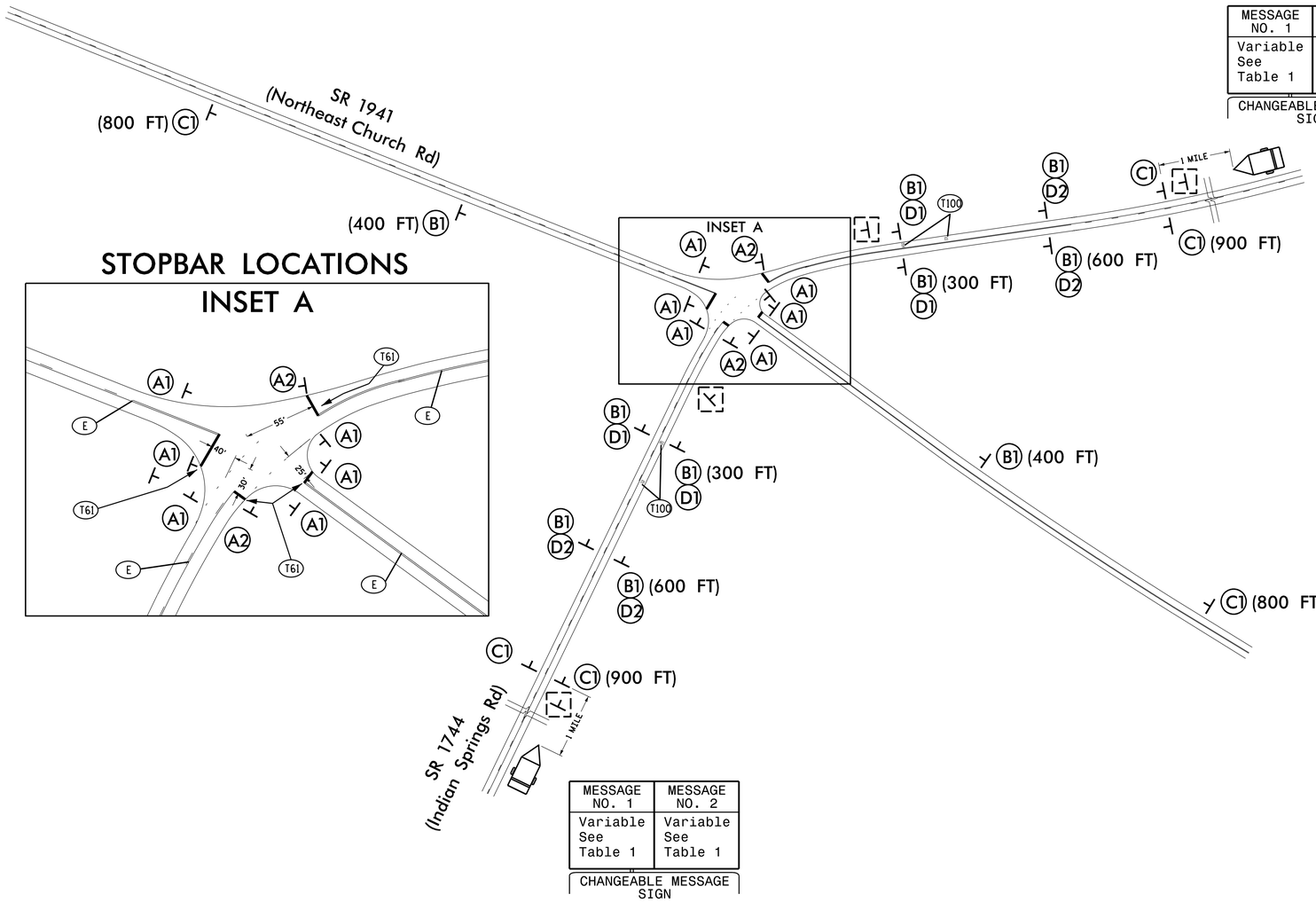
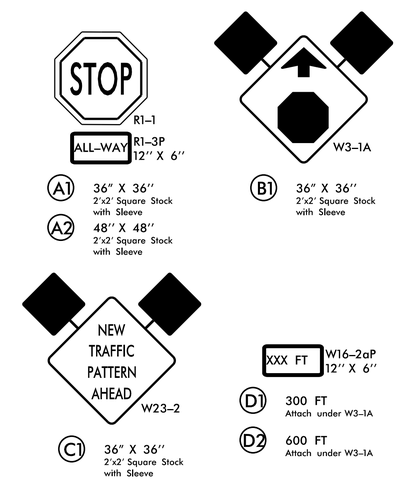



| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

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## PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| E | EXISTING |
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

## TABLE 1
## CMS MESSAGES

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DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

## LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- (TXX) PAVEMENT MARKING SYMBOL
- (XX) SIGN SYMBOL

HS-2004I All Way Stop

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

SCALE 0 100 1"=100'

SR 1744 (Indian Spring Rd)
at
SR 1941 (Northeast Church Rd)

Division 4 Wayne Mt. Olive

PLAN DATE: January 2022 REVIEWED BY:
PREPARED BY: DE Fowler REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan
SIGNATURE 4/22/2022
DATE

$$$$$SYSTIME$$$$$
$$$$$SYSTDATE$$$$$
$$$$$USERNAME$$$$$

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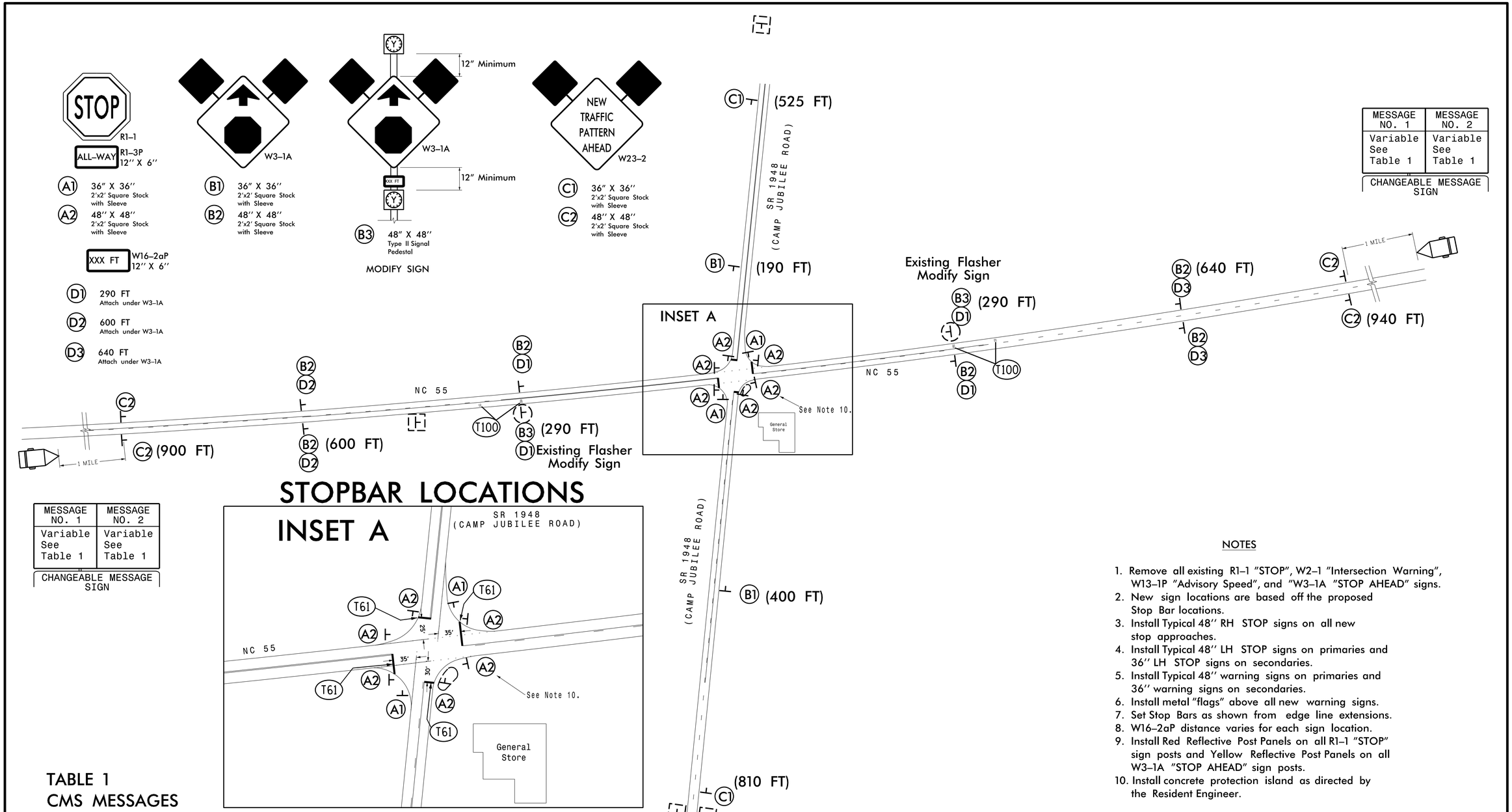


# STOPBAR LOCATIONS

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

## INSET A




## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|---|
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DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

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10. Install concrete protection island as directed by the Resident Engineer.

## LEGEND

| | |
|---|---|
| ⊢ | STATIONARY SIGN |
| (XXX FT) | DISTANCE FROM APPROACH STOPBAR |
| | REMOVE EXISTING SIGN |
| | MODIFY EXISTING SIGN |
| | CHANGEABLE MESSAGE SIGN (CMS) |
| (TXX) | PAVEMENT MARKING SYMBOL |
| (XX) | SIGN SYMBOL |

SS-6004AC All Way Stop

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

SCALE 0 100 1"=100'

NC 55
at
SR 1948 (Camp Jubilee Road)

Division 4 Wayne East of Mount Olive

| | | | |
|---|---|---|---|
| PLAN DATE: | January 2022 | REVIEWED BY: | B. A. Lehan |
| PREPARED BY: | I.N. Avery | REVIEWED BY: | |

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan A. Lehan 4/22/2022
SIGNATURE DATE

DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| SS-6004AC | Sig. 1.0 |

## TABLE OF OPERATION

| SIGNAL FACE | INTERVAL 1 | INTERVAL 2 |
|---|---|---|
| 21,23 | ON | OFF |
| 22,24 | OFF | ON |
| 25,27 | ON | OFF |
| 26,28 | OFF | ON |
| 11,13 | ON | OFF |
| 12,14 | OFF | ON |

## SIGN "B" WITH WARNING BEACONS




## SIGNAL FACE I.D.

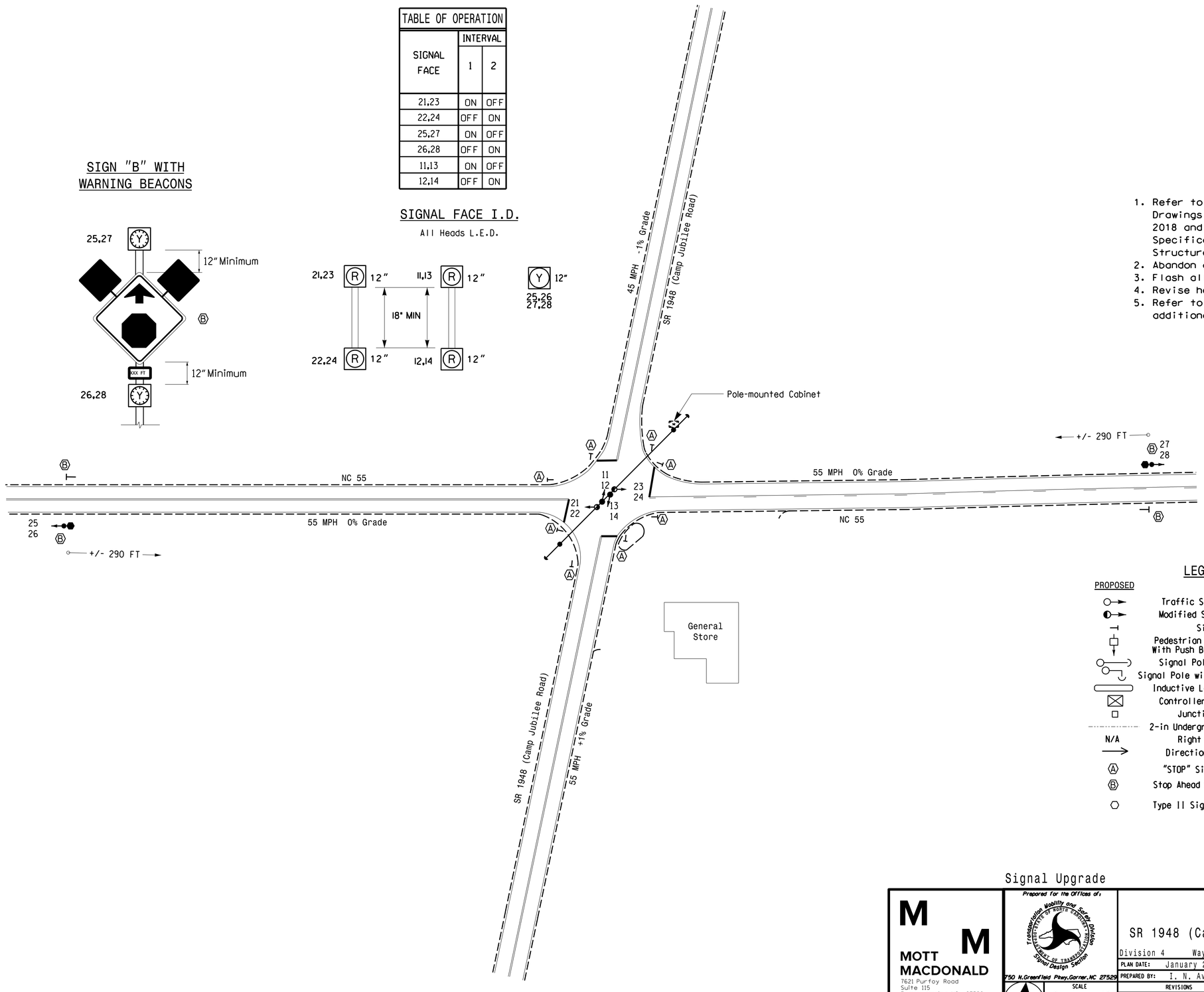
All Heads L.E.D.




Beacon

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Abandon all existing loops.
3. Flash all beacons continuously.
4. Revise heads 21,22,23,24.
5. Refer to SS-6004AC Signing Plans for additional signing requirements.




## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Sign | |
| | Pedestrian Signal Head With Push Button & Sign | |
| | Signal Pole with Guy | |
| | Signal Pole with Sidewalk Guy | |
| | Inductive Loop Detector | |
| | Controller & Cabinet | |
| | Junction Box | |
| | 2-in Underground Conduit | |
| N/A | Right of Way | |
| | Directional Arrow | |
| | "STOP" Sign (R1-1) | |
| | Stop Ahead Sign (W3-1A) | |
| | Type II Signal Pedestal | |

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MOTT MACDONALD
7621 Purfoy Road
Suite 115
Fuquay-Varina, NC 27526
www.mottmac.com
License No. F-0669

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

SCALE 0 40 1"=40'

NC 55
at
SR 1948 (Camp Jubilee Road)

Division 4 Wayne County East of Mount Olive

| | | | |
|---|---|---|---|
| PLAN DATE: | January 2022 | REVIEWED BY: | B. A. Lehan |
| PREPARED BY: | I. N. Avery | REVIEWED BY: | |

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

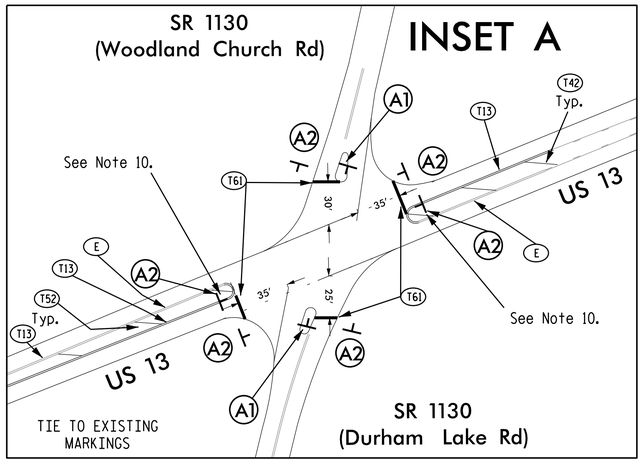
DocuSigned by: Brendan Lehan
DZ97F87F32C0845F...
4/22/2022
DATE

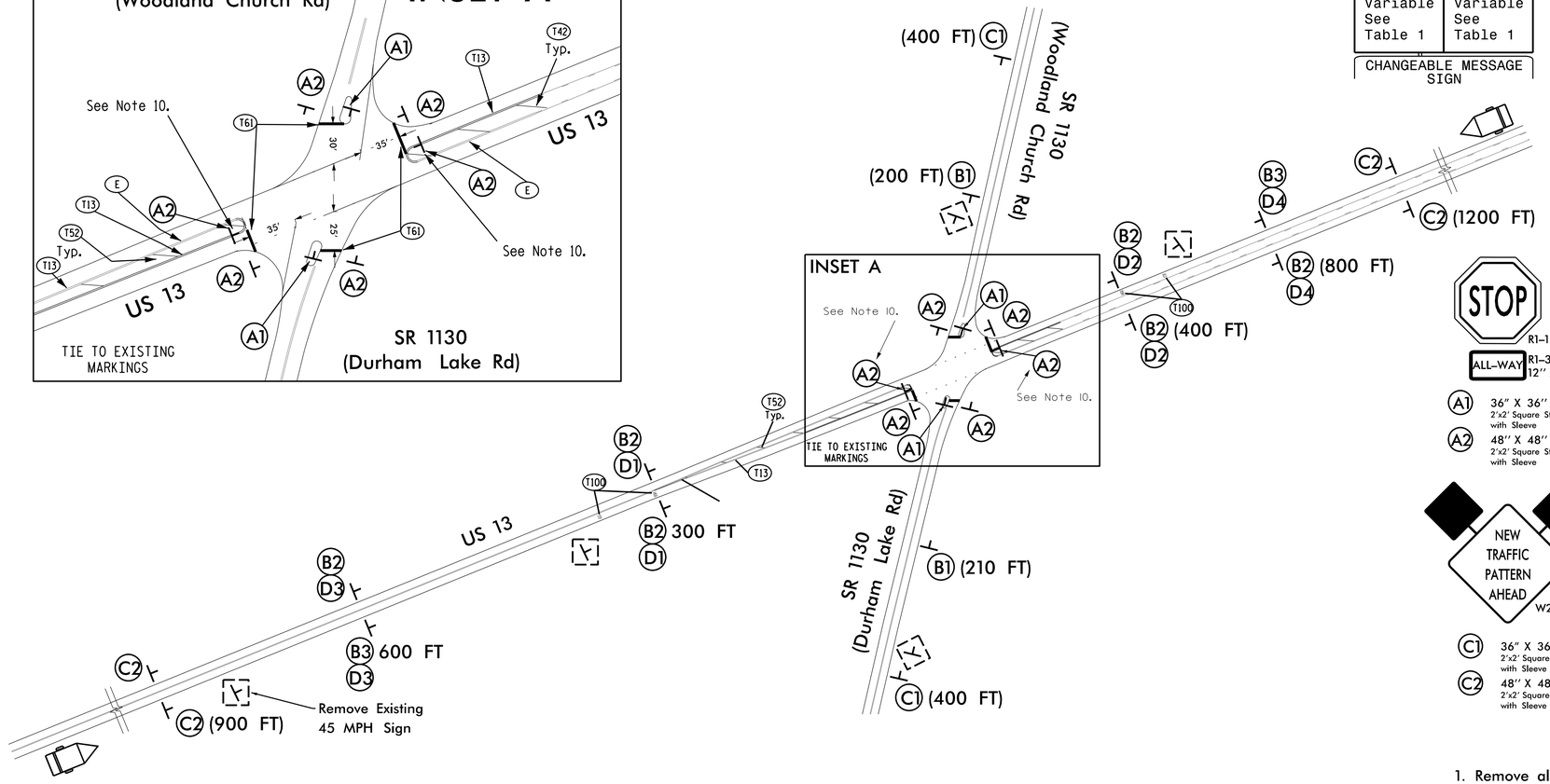
SIG. INVENTORY NO. 04-1191

$$$$$SYSTIME$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD

# STOPBAR LOCATIONS




| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

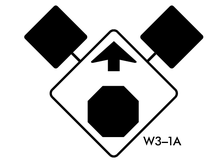
CHANGEABLE MESSAGE SIGN

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

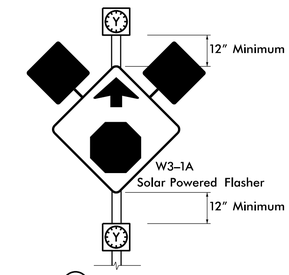
A1 36" X 36" 2"x2" Square Stock with Sleeve

A2 48" X 48" 2"x2" Square Stock with Sleeve

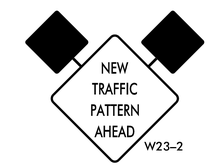



B1 36" X 36" 2"x2" Square Stock with Sleeve

B2 48" X 48" 2"x2" Square Stock with Sleeve




B3 48" X 48" Type II Signal Pedestal




C1 36" X 36" 2"x2" Square Stock with Sleeve

C2 48" X 48" 2"x2" Square Stock with Sleeve

XXX FT W16-2aP 12" X 6"

D1 300 FT Attach under W3-1A

D2 400 FT Attach under W3-1A

D3 600 FT Attach under W3-1A

D4 800 FT Attach under W3-1A

## NOTES

1. Remove all existing R1-1 "STOP", W2-1 "Intersection Warning", W13-1P "Advisory Speed", and "W3-1A "STOP AHEAD" signs.
2. New sign locations are based off the proposed Stop Bar locations.
3. Install Typical 48" RH STOP signs on all new stop approaches.
4. Install Typical 48" LH STOP signs on primaries and 36" LH STOP signs on secondaries.
5. Install Typical 48" warning signs on primaries and 36" warning signs on secondaries.
6. Install metal "flags" above all new warning signs.
7. Set Stop Bars as shown from edge line extensions.
8. W16-2aP distance varies for each sign location.
9. Install Red Reflective Post Panels on all R1-1 "STOP" sign posts and Yellow Reflective Post Panels on all W3-1A "STOP AHEAD" sign posts.
10. Install concrete protection island as directed by the Resident Engineer.

## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|---|
| 14 DAYS PRIOR (MIN) | ALL WAY STOP | COMING SOON |
| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| E | EXISTING |
| T13 | (4") YELLOW DOUBLE CENTER |
| T42 | (8") YELLOW DIAGONAL |
| T52 | (12") YELLOW DIAGONAL |
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- (TXX) PAVEMENT MARKING SYMBOL
- (XX) SIGN SYMBOL

SS-6004AE All Way Stop

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SCALE 0 100 1"=100'

US 13
at
SR 1130 (Woodland Church Rd/ Durham Lake Rd)

Division 4 Wayne Goldsboro

| | | | |
|---|---|---|---|
| PLAN DATE: | January 2022 | REVIEWED BY: | BA Lehan |
| PREPARED BY: | DE Fowler | REVIEWED BY: | |

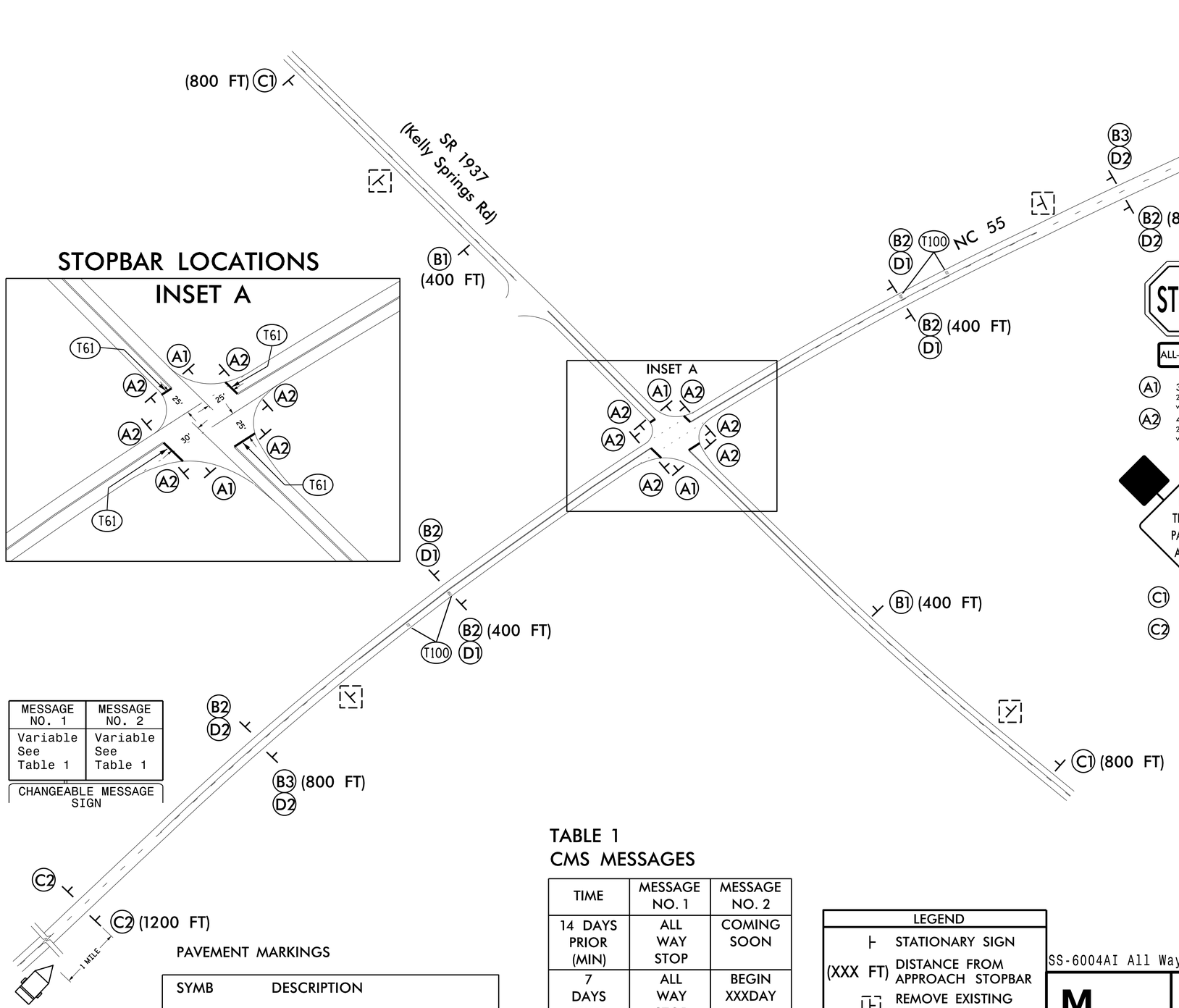
| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 0001A7EDB42DD4A... SIGNATURE 4/22/2022 DATE

$$$

DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD




## STOPBAR LOCATIONS

## INSET A




| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

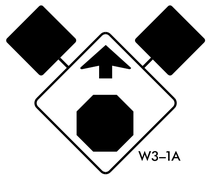
CHANGEABLE MESSAGE SIGN

R1–1

ALL–WAY R1–3P 12'' X 6''

A1 36'' X 36'' 2'x2' Square Stock with Sleeve

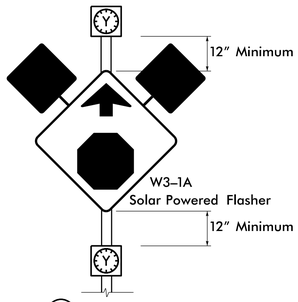
A2 48'' X 48'' 2'x2' Square Stock with Sleeve



W3–1A

B1 36'' X 36'' 2'x2' Square Stock with Sleeve

B2 48'' X 48'' 2'x2' Square Stock with Sleeve




W3–1A Solar Powered Flasher

B3 48'' X 48'' Type II Signal Pedestal

W23–2

C1 36'' X 36'' 2'x2' Square Stock with Sleeve

C2 48'' X 48'' 2'x2' Square Stock with Sleeve

XXX FT W16–2aP 12'' X 6''

D1 400 FT Attach under W3–1A

D2 800 FT Attach under W3–1A

## NOTES

1. Remove all existing R1–1 "STOP", W2–1 "Intersection Warning", W13–1P "Advisory Speed", and "W3–1A "STOP AHEAD" signs.
2. New sign locations are based off the proposed Stop Bar locations.
3. Install Typical 48'' RH STOP signs on all new stop approaches.
4. Install Typical 48'' LH STOP signs on primaries and 36'' LH STOP signs on secondaries.
5. Install Typical 48'' warning signs on primaries and 36'' warning signs on secondaries.
6. Install metal "flags" above all new warning signs.
7. Set Stop Bars as shown from edge line extensions.
8. W16–2aP distance varies for each sign location.
9. Install Red Reflective Post Panels on all R1–1 "STOP" sign posts and Yellow Reflective Post Panels on all W3–1A "STOP AHEAD" sign posts.
10. Install concrete protection island as directed by the Resident Engineer.

## PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|---|
| 14 DAYS PRIOR (MIN) | ALL WAY STOP | COMING SOON |
| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

## LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- (TXX) PAVEMENT MARKING SYMBOL
- (XX) SIGN SYMBOL

SS-6004AI All Way Stop

MOTT MACDONALD
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Fuquay-Varina, NC 27526
www.mottmac.com
License No. F-0669

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

SCALE 0 90 1"=90'

NC 55
at
SR 1937 (Kelly Springs Rd)

Division 4 Wayne Pikeville

PLAN DATE: January 2022 REVIEWED BY:
PREPARED BY: DE Fowler REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

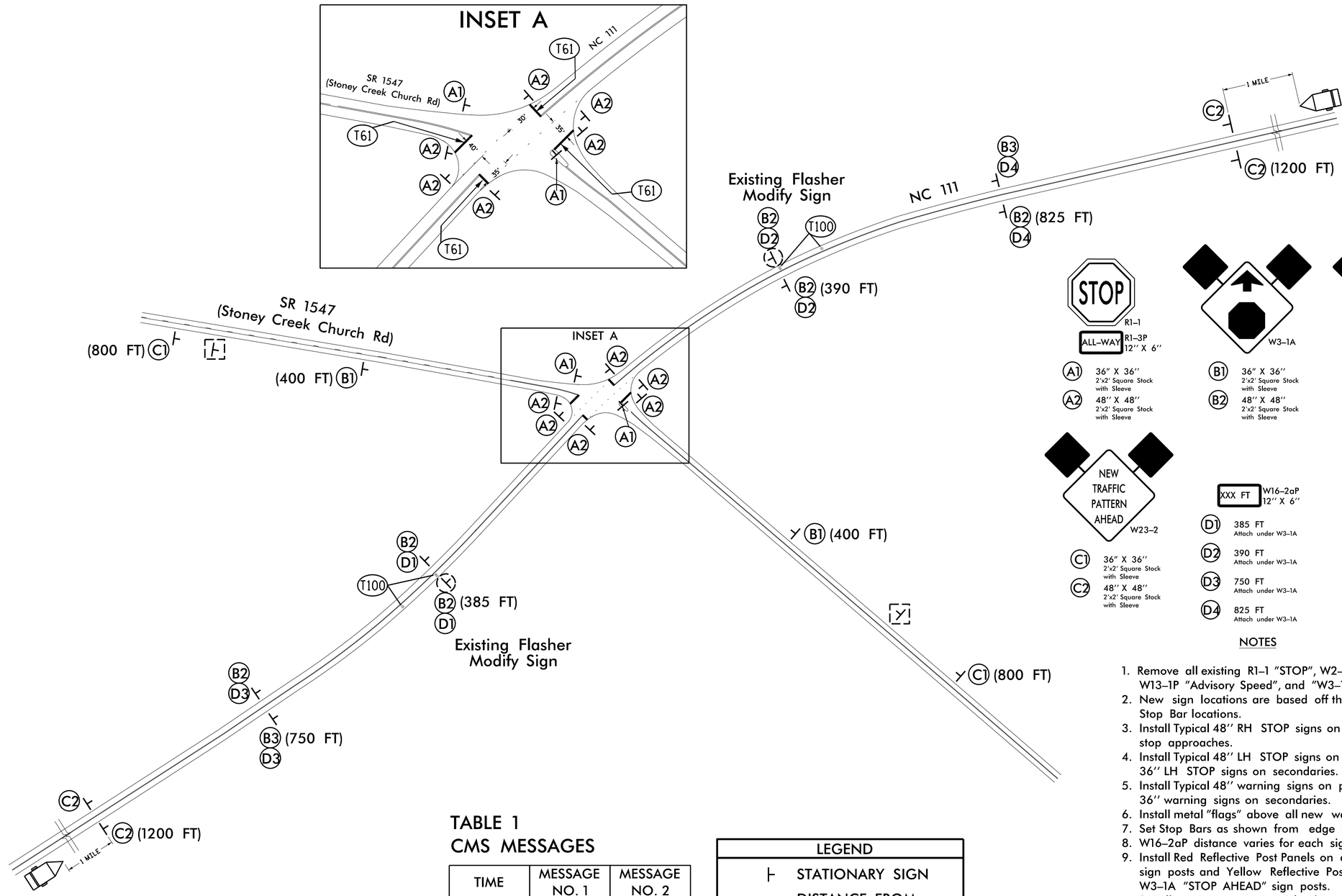
SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan A. Lehan
SIGNATURE 4/22/2022 DATE

$$$$$SYSTIME$$$$
$$$$$SYSTIME$$$$
$$$$DOCNAME$$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD

# STOPBAR LOCATIONS




| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

STOP R1–1

ALL–WAY R1–3P 12'' X 6''

A1 36" X 36'' 2'x2' Square Stock with Sleeve

A2 48'' X 48'' 2'x2' Square Stock with Sleeve

W3–1A

B1 36" X 36'' 2'x2' Square Stock with Sleeve

B2 48'' X 48'' 2'x2' Square Stock with Sleeve

12" Minimum

B3 48" X 48'' Type II Signal Pedestal

MODIFY SIGN

NEW TRAFFIC PATTERN AHEAD W23–2

C1 36" X 36'' 2'x2' Square Stock with Sleeve

C2 48'' X 48'' 2'x2' Square Stock with Sleeve

XXX FT W16–2aP 12'' X 6''

D1 385 FT Attach under W3–1A

D2 390 FT Attach under W3–1A

D3 750 FT Attach under W3–1A

D4 825 FT Attach under W3–1A

## NOTES

1. Remove all existing R1–1 "STOP", W2–1 "Intersection Warning", W13–1P "Advisory Speed", and "W3–1A "STOP AHEAD" signs.
2. New sign locations are based off the proposed Stop Bar locations.
3. Install Typical 48'' RH STOP signs on all new stop approaches.
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| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

## PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
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| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

## LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- MODIFY EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- (TXX) PAVEMENT MARKING SYMBOL
- (XX) SIGN SYMBOL

SS-6004BJ All Way Stop

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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License No. F-0669

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

NC 111
at
SR 1547
(Stoney Creek Church Rd)

Division 4 | Wayne | Pikeville

PLAN DATE: January 2022 | REVIEWED BY: BA Lehan

PREPARED BY: DE Fowler | REVIEWED BY:

SCALE 0 100 1"100'

REVISIONS | INIT. | DATE

SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSign Envelope ID: Brendan Lehan 4/22/2022

SIGNATURE | DATE

$$$$$$SYSTIME$$$$$$
$$$$$$SSSS

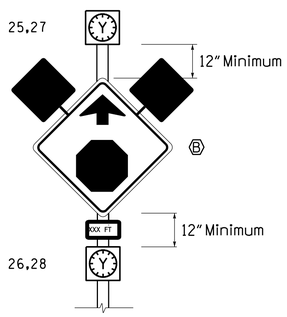
DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| SS-6004BJ | Sig. 1.0 |

| TABLE OF OPERATION | | |
|---|---|---|
| SIGNAL FACE | INTERVAL 1 | INTERVAL 2 |
| 11,13 | ON | OFF |
| 12,14 | OFF | ON |
| 21,23 | ON | OFF |
| 22,24 | OFF | ON |
| 25,27 | ON | OFF |
| 26,28 | OFF | ON |

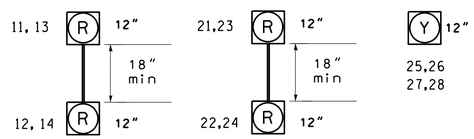
Beacon

## SIGN "B" WITH WARNING BEACONS



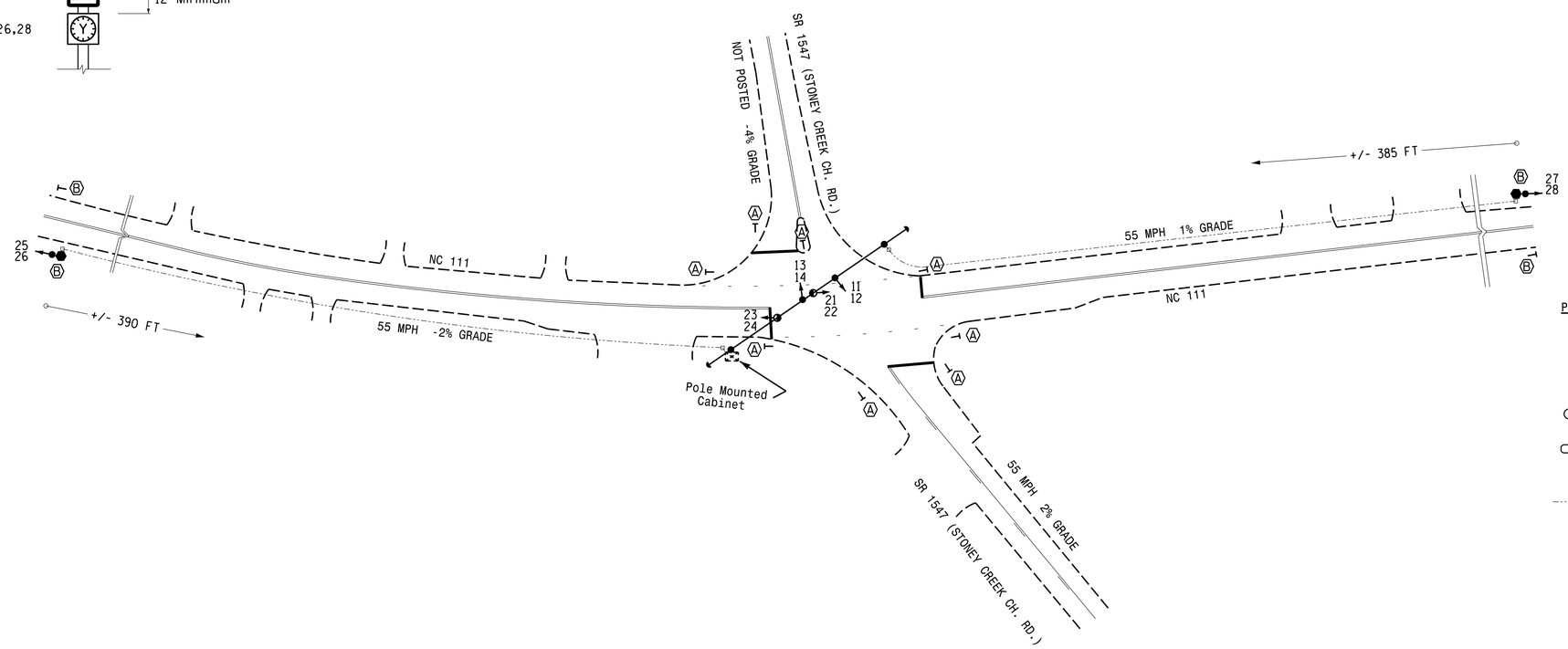

## SIGNAL FACE I.D.

All Heads L.E.D.




## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated July 2018 and "Standard Specifications for Roads and Structures" dated July 2018.
2. Flash all beacons continuously.
3. Modify signal heads 21,22,23 and 24.
4. Abandon all existing loops.
5. Remove all signs related to vehicle entering when flashing.
6. Refer to SS-6004BJ Signing Plans for additional signing requirements.




## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Sign | |
| | Pedestrian Signal Head With Push Button & Sign | |
| | Signal Pole with Guy | |
| | Signal Pole with Sidewalk Guy | |
| | Inductive Loop Detector | |
| | Controller & Cabinet | |
| | Junction Box | |
| | 2-in Underground Conduit | |
| N/A | Right of Way | |
| | Directional Arrow | |
| | "STOP" Sign (R1-1) | |
| | Stop Ahead Sign (W3-1A) | |
| | Type II Signal Pedestal | |

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MOTT MACDONALD
7621 Purfoy Road
Suite 115
Fuquay-Varina, NC 27526
www.mottmac.com
License No. F-0669

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

SCALE 0 40 1"=40'

NC 111
AT
SR 1547 (STONEY CREEK CH. RD.)

DIVISION 4 WAYNE COUNTY N. OF GOLDSBORO

| | | | |
|---|---|---|---|
| PLAN DATE: | January 2022 | REVIEWED BY: | BA Lehan |
| PREPARED BY: | DE Fowler | REVIEWED BY: | |

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 4/22/2022

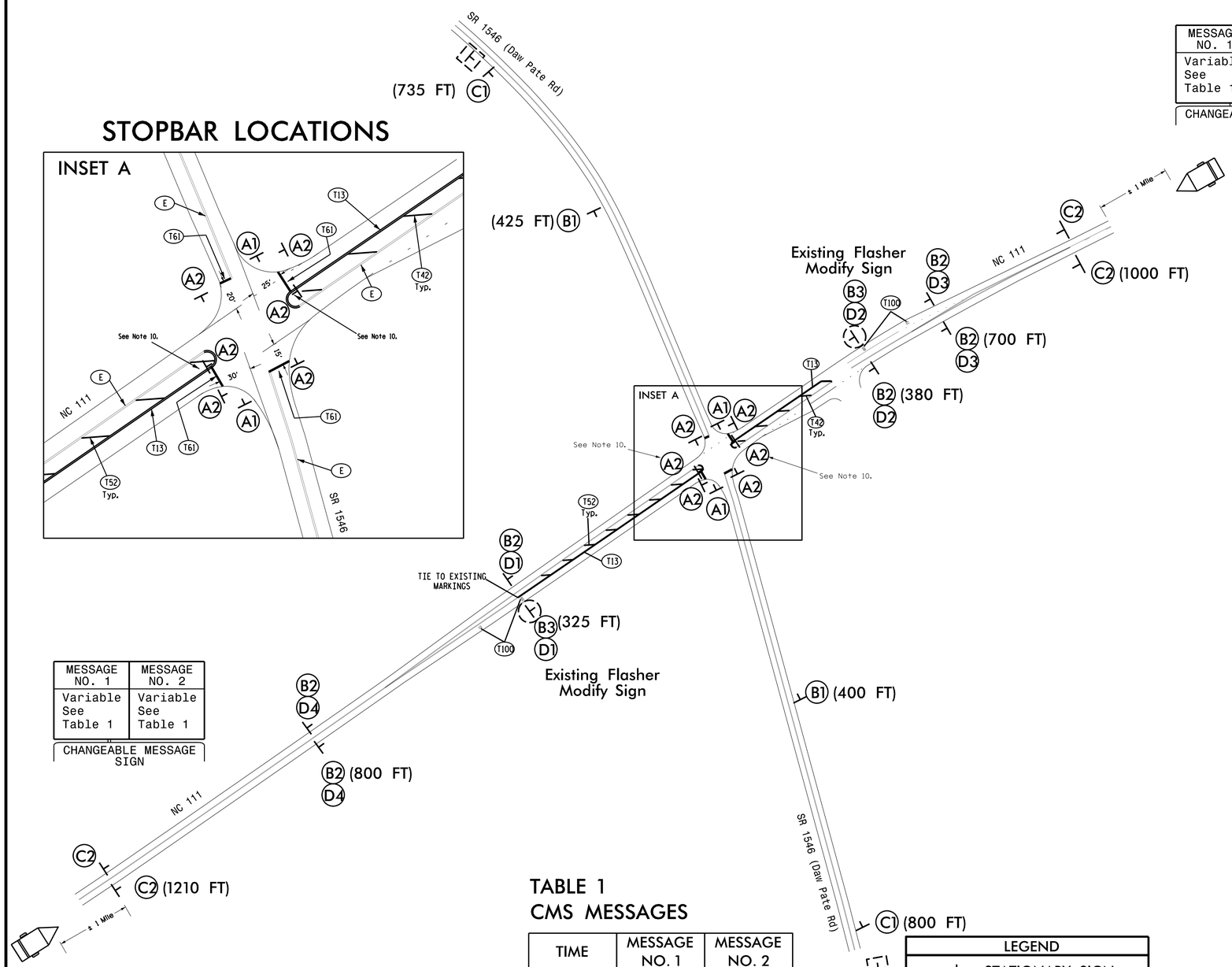
SIGNATURE DATE

SIG. INVENTORY NO. 04-0834

$$$$$SYSTIME$$$$$
$$$$$SSSSSSSSSS$$$$$
$$$$USERNAME$$$$

DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD

# STOPBAR LOCATIONS




| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

CHANGEABLE MESSAGE SIGN

| MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|
| Variable See Table 1 | Variable See Table 1 |

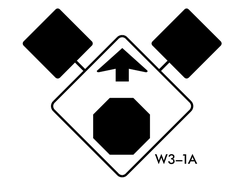
CHANGEABLE MESSAGE SIGN

R1–1

ALL–WAY R1–3P 12'' X 6''

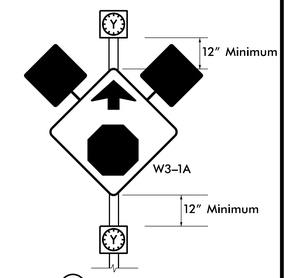
A1 36" X 36'' 2'x2' Square Stock with Sleeve

A2 48'' X 48'' 2'x2' Square Stock with Sleeve



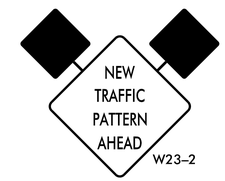

B1 36" X 36'' 2'x2' Square Stock with Sleeve

B2 48'' X 48'' 2'x2' Square Stock with Sleeve




B3 48" X 48'' Type II Signal Pedestal

MODIFY SIGN




C1 36" X 36'' 2'x2' Square Stock with Sleeve

C2 48'' X 48'' 2'x2' Square Stock with Sleeve

XXX FT W16–2aP 12'' X 6''

D1 325 FT Attach under W3–1A

D2 380 FT Attach under W3–1A

D3 700 FT Attach under W3–1A

D4 800 FT Attach under W3–1A

## NOTES

1. Remove all existing R1–1 "STOP", W2–1 "Intersection Warning", W13–1P "Advisory Speed", and "W3–1A "STOP AHEAD" signs.
2. New sign locations are based off the proposed Stop Bar locations.
3. Install Typical 48'' RH STOP signs on all new stop approaches.
4. Install Typical 48'' LH STOP signs on primaries and 36'' LH STOP signs on secondaries.
5. Install Typical 48'' warning signs on primaries and 36'' warning signs on secondaries.
6. Install metal "flags" above all new warning signs.
7. Set Stop Bars as shown from edge line extensions.
8. W16–2aP distance varies for each sign location.
9. Install Red Reflective Post Panels on all R1–1 "STOP" sign posts and Yellow Reflective Post Panels on all W3–1A "STOP AHEAD" sign posts.
10. Install concrete protection island as directed by the Resident Engineer.

## PAVEMENT MARKINGS

| SYMB | DESCRIPTION |
|---|---|
| E | EXISTING |
| T13 | (4") YELLOW DOUBLE CENTER |
| T42 | (8") YELLOW DIAGONAL |
| T52 | (12") YELLOW DIAGONAL |
| T61 | WHITE STOPBAR (24", 90 MIL) |
| T100 | ALPHANUMERIC CHAR. (90 MIL) "STOP" "AHEAD" |

## TABLE 1
## CMS MESSAGES

| TIME | MESSAGE NO. 1 | MESSAGE NO. 2 |
|---|---|---|
| 14 DAYS PRIOR (MIN) | ALL WAY STOP | COMING SOON |
| 7 DAYS PRIOR | ALL WAY STOP | BEGIN XXXDAY |
| POST INSTALL | NEW TRAFFIC PATTERN | STOP AHEAD |

DIVISION TRAFFIC ENGINEER TO PROVIDE "BEGIN DAY" INFORMATION

## LEGEND

- STATIONARY SIGN
- (XXX FT) DISTANCE FROM APPROACH STOPBAR
- REMOVE EXISTING SIGN
- MODIFY EXISTING SIGN
- CHANGEABLE MESSAGE SIGN (CMS)
- TXX PAVEMENT MARKING SYMBOL
- XX SIGN SYMBOL

SS-6004R All Way Stop

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MOTT MACDONALD
7621 Purfoy Road, Suite 115
Fuquay-Varina, NC 27526
www.mottmac.com
License No. F-0669

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

SCALE 0 100 1"=100'

NC 111
at
SR 1546 (Daw Pate Rd)

Division 4 Wayne Patetown

PLAN DATE: January 2022 REVIEWED BY:
PREPARED BY: BA Lehan REVIEWED BY:

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan Lehan 4/22/2022
SIGNATURE DATE

DocuSign Envelope ID: B728CA69-93C1-4028-9426-9D2E1F3756CD

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| SS-6004R | Sig. 1.0 |

## TABLE OF OPERATION

| SIGNAL FACE | INTERVAL 1 | INTERVAL 2 |
|---|---|---|
| 11,13 | ON | OFF |
| 12,14 | OFF | ON |
| 21,23 | ON | OFF |
| 22,24 | OFF | ON |
| 25,26 | ON | OFF |
| 27,28 | OFF | ON |

## SIGN "B" WITH WARNING BEACONS




## SIGNAL FACE I.D.

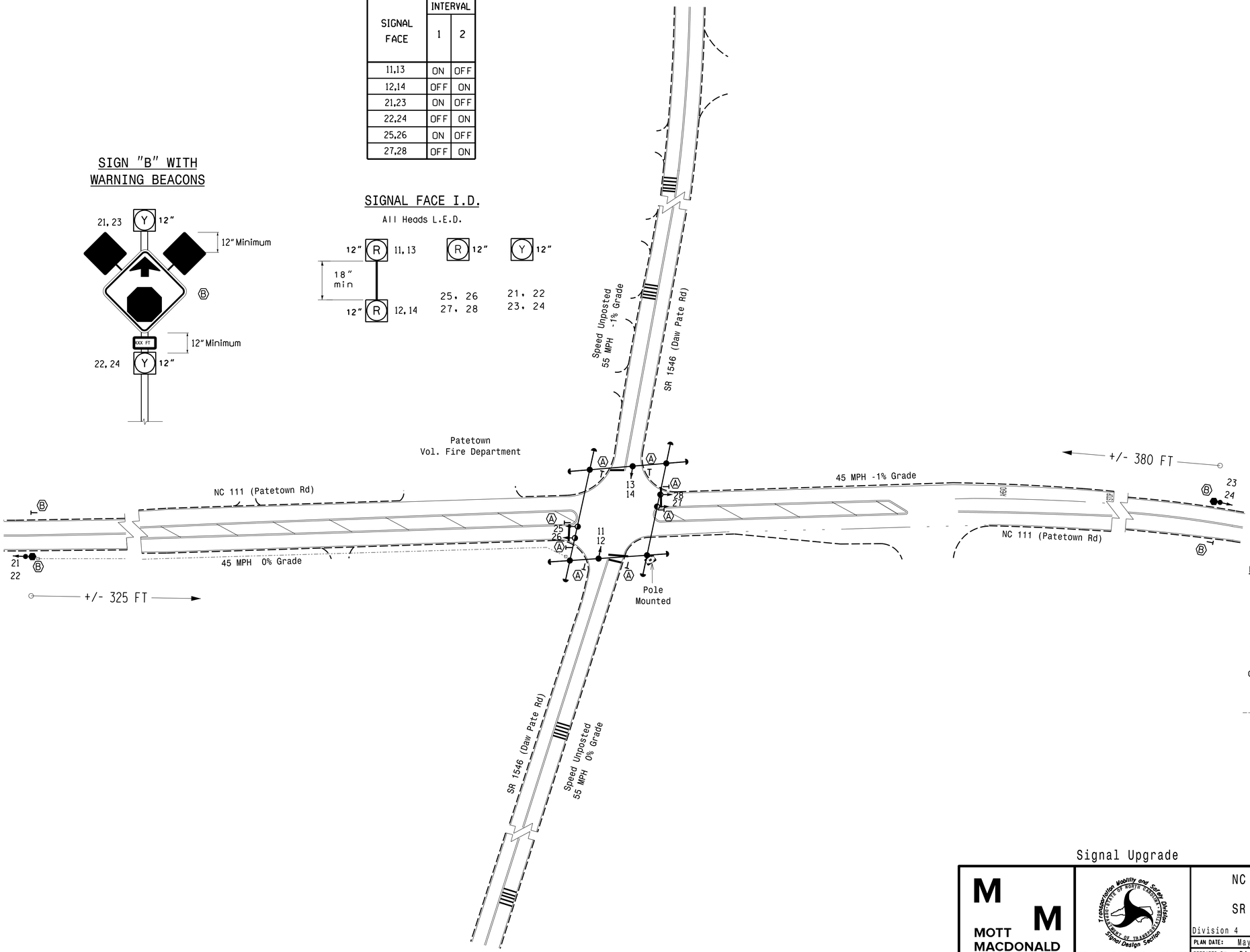
All Heads L.E.D.




## Beacon

## NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Flash all beacons continuously.
3. Revise and repostion signal heads 25,26,27,28.
4. Abandon all existing loops.
5. Remove all signs related to vehicle entering when flashing.
6. Refer to SS-60004R Signing Plans for additional signing requirements.




## LEGEND

| PROPOSED | | EXISTING |
|---|---|---|
| | Traffic Signal Head | |
| | Modified Signal Head | N/A |
| | Sign | |
| | Pedestrian Signal Head With Push Button & Sign | |
| | Signal Pole with Guy | |
| | Signal Pole with Sidewalk Guy | |
| | Inductive Loop Detector | |
| | Controller & Cabinet | |
| | Junction Box | |
| | 2-in Underground Conduit | |
| N/A | Right of Way | |
| | Directional Arrow | |
| A | "STOP" Sign (R1-1) | A |
| B | Stop Ahead Sign (W3-1A) | B |
| | Type II Signal Pedestal | |

Signal Upgrade

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License No. F-0669

750 N.Greenfield Pkwy,Garner,NC 27529

SCALE 0 40
1"=40'

NC 111 (Patetown Rd)
at
SR 1546 (Daw Pate Rd)

Division 4 Wayne County Patetown

| | | | |
|---|---|---|---|
| PLAN DATE: | May 2010 | REVIEWED BY: | RW Thompson |
| PREPARED BY: | BA Lehan | REVIEWED BY: | |

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 045256 ENGINEER BRENDAN A. LEHAN

DocuSigned by: Brendan A. Lehan
4/22/2022
SIGNATURE DATE

SIG. INVENTORY NO. 04-1366

$$$$$$SYSTIME$$$$$
$$$$$$SYSLIBS$$$$$
$$$$$$USERNAME$$$$$