WBS NO: 2025CPT.03.19.10671

CONTRACT: DC00461

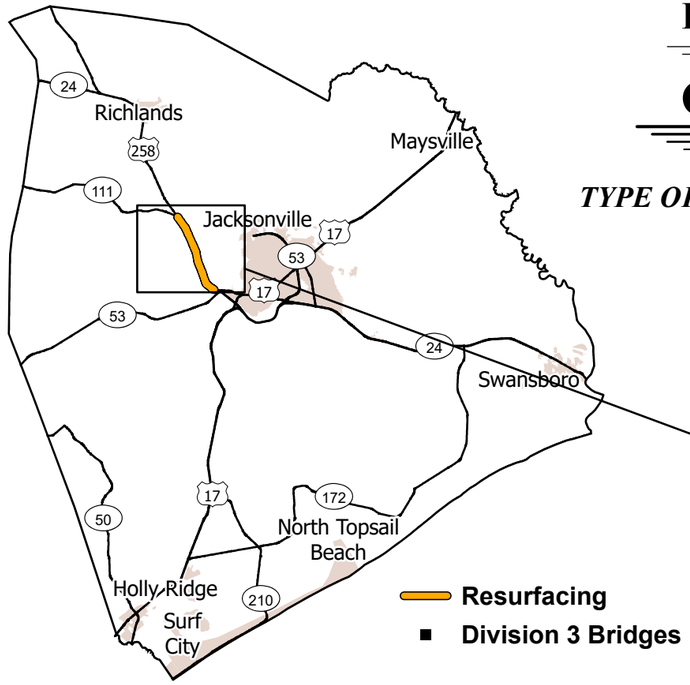
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

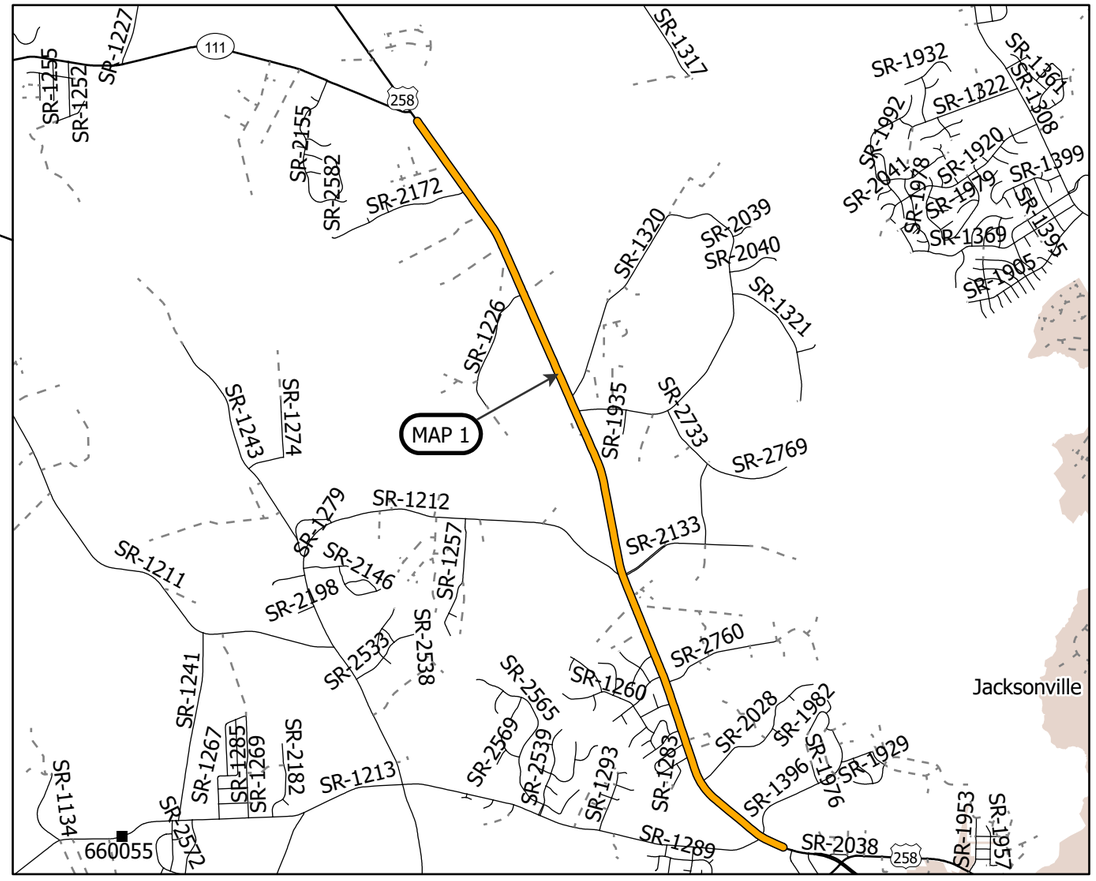
ONSLOW COUNTY

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2025CPT.03.19.10671	1

STATE PROJECT NUMBER	DESCRIPTION

TYPE OF WORK: RESURFACING, MILLING, SIGNALS





MAP	ROUTE	Description	TYPE
1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	Resurfacing

PROJECT LENGTH

MAP	MILES
1	4.61

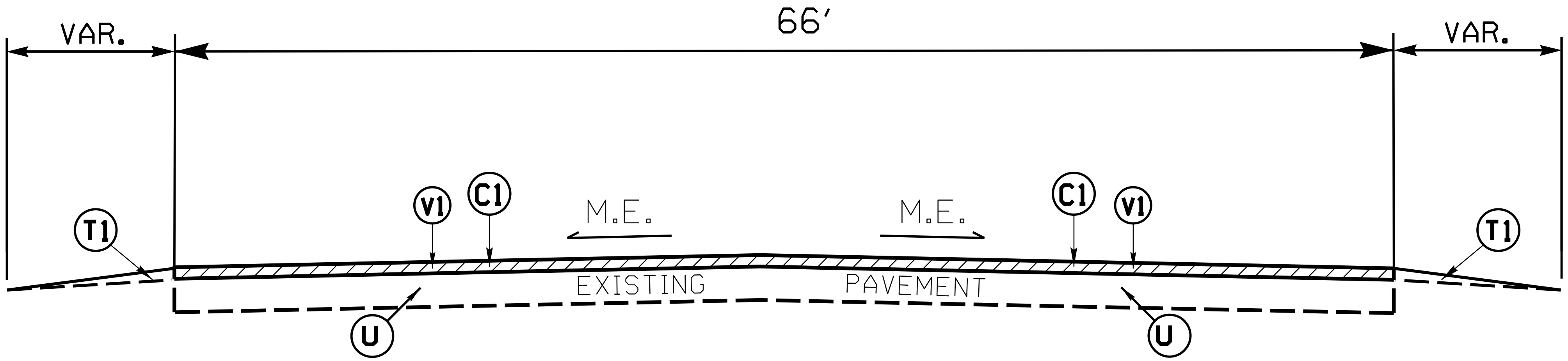
Prepared in the Office of:

DIVISION OF HIGHWAYS

5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	2



TYPICAL SECTION NO. 1

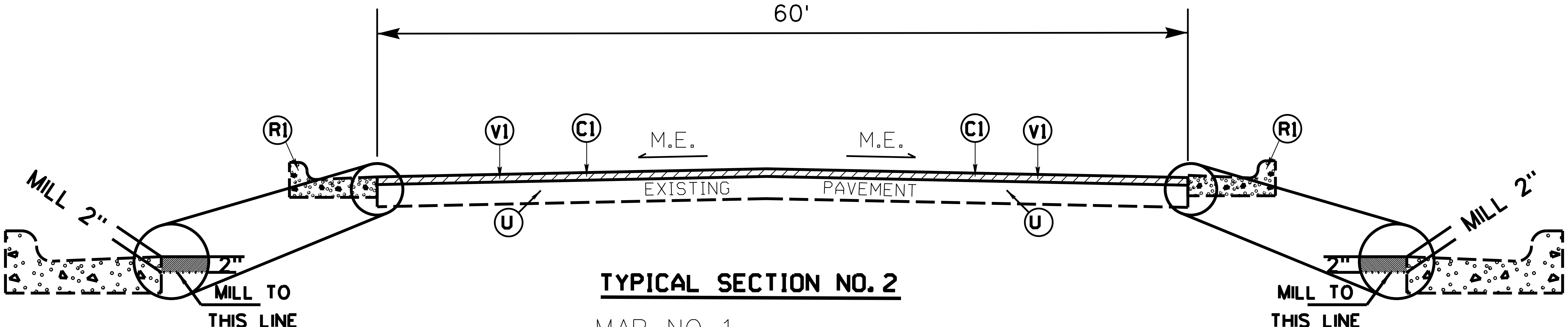
MAP NO. 1
US - 258
MP 4.61 - MP 6.36

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 2" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ.YD.
R1	EXISTING 2'6" CURB & GUTTER
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING, 2" DEPTH

NOTES: MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

SHOULDER WORK ON MAP NO. 1 AS NEEDED, TO BE DETERMINED BY ENGINEER.

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.



TYPICAL SECTION NO. 2

MAP NO. 1
US - 258
MP 1.75 - MP 4.61

EFF. 01-16-2024
REV.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

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

STD.NO. TITLE

DIVISION 8 - INCIDENTALS

846.01 Concrete Curb, Gutter and Curb & Gutter

DIVISION 12 - PVMT MARKING, MARKERS AND DELINEATION

1205.08 Pavement Markings - Symbols & Word Messages

REVISIONS

8/17/99

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

8/17/99

REVISIONS

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

ENGLISH DETAIL DRAWING FOR

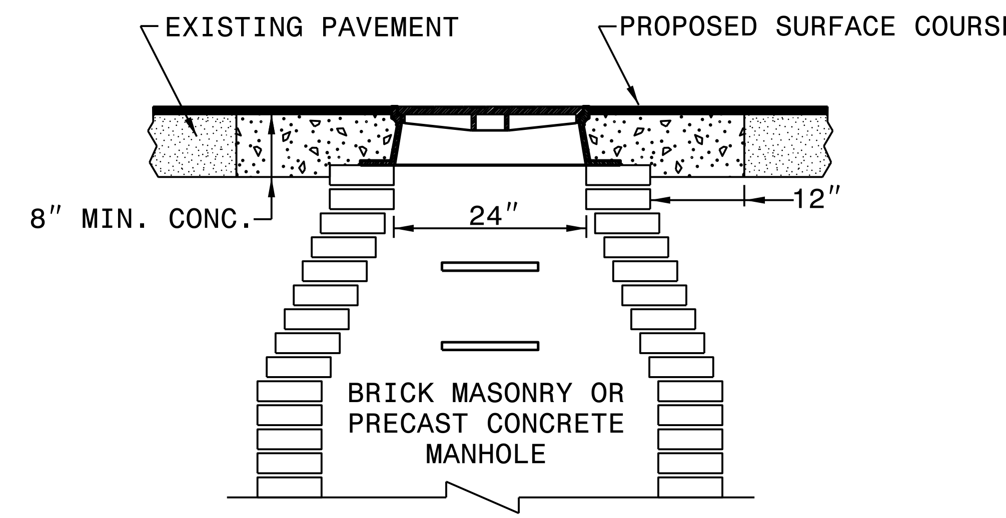
MANHOLE AND VALVE BOX ADJUSTMENTS

SHEET 1 OF 1

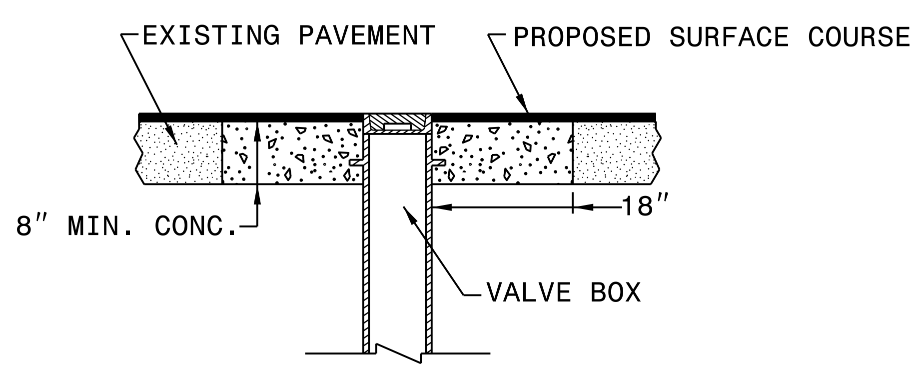
840D55

GENERAL NOTES:

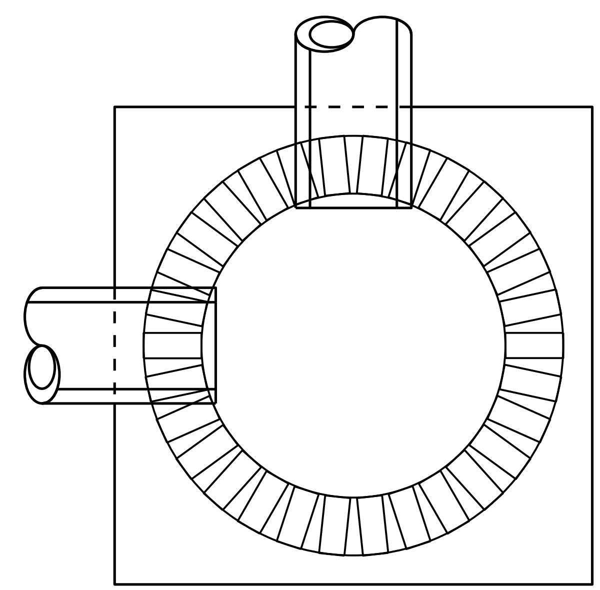
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8″ DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS ½″ +/- ⅛″
7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2024 STANDARD SPECIFICATIONS.



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

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

ENGLISH DETAIL DRAWING FOR

MANHOLE AND VALVE BOX ADJUSTMENTS

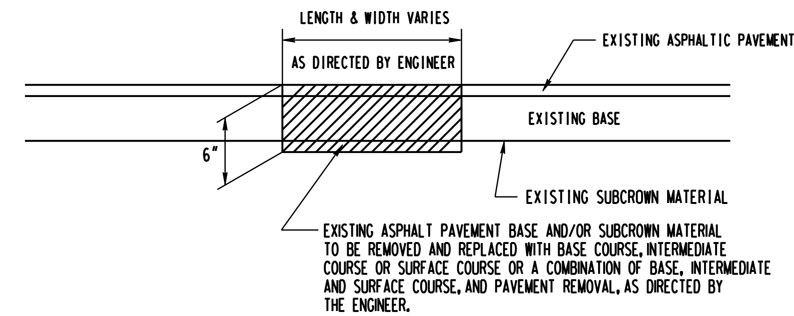
SHEET 1 OF 1

840D55

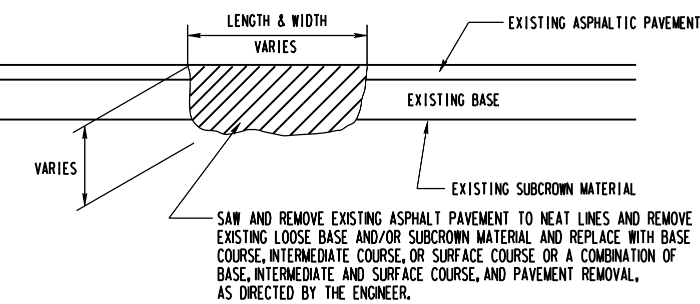
28-NOV-2017 10:19
S:\Division Resurfacing\z Design Standards & CADD\CADD_Spec. Dwg\Typicals, Curb, Etc...dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	4

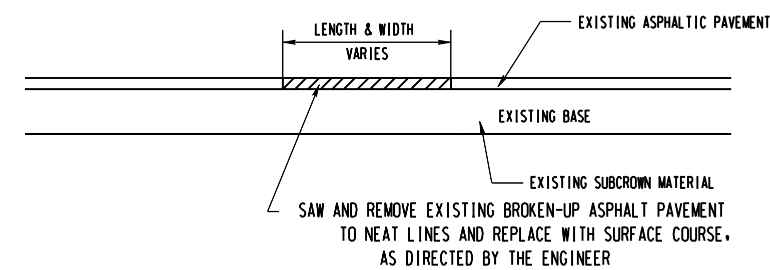
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



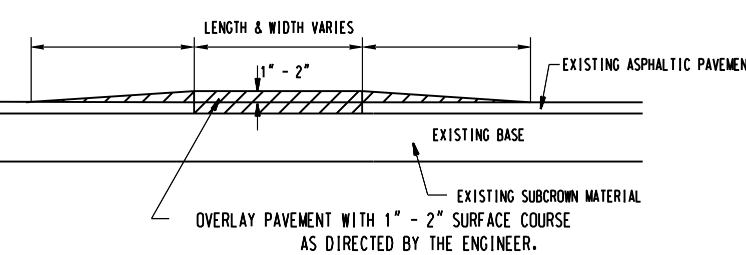
DETAIL NO. 1



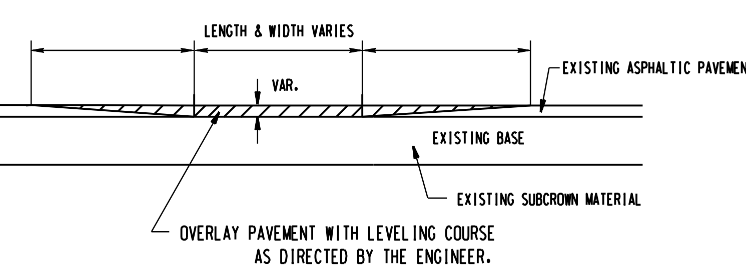
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4

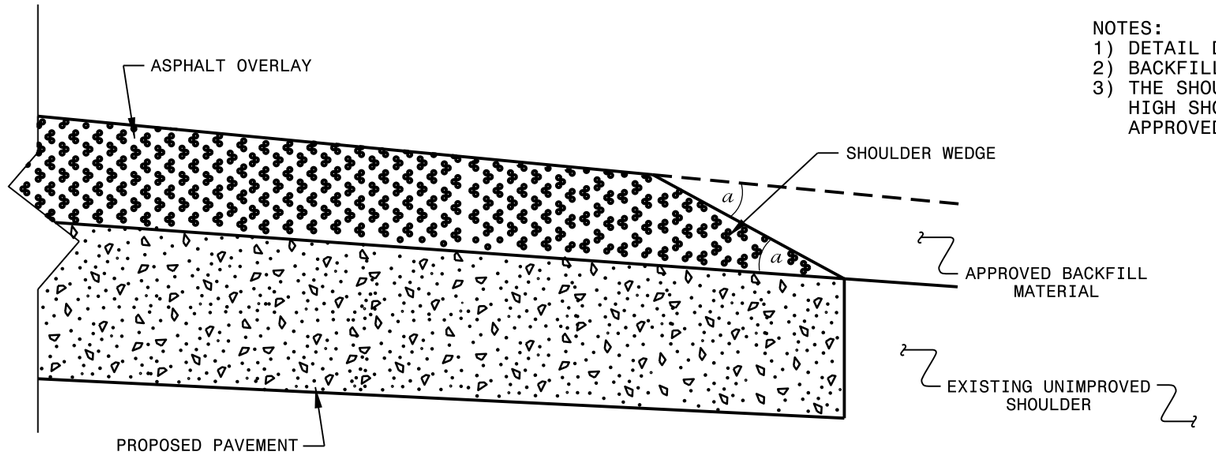


DETAIL NO. 5

REVISIONS

20-APR-2015 11:56
C:\Users\mkimmel\Desktop\DETAIL PSHS\Microstation Files\3CR.20711.173_Patch.dgn
$$$$USERNAME$$$$

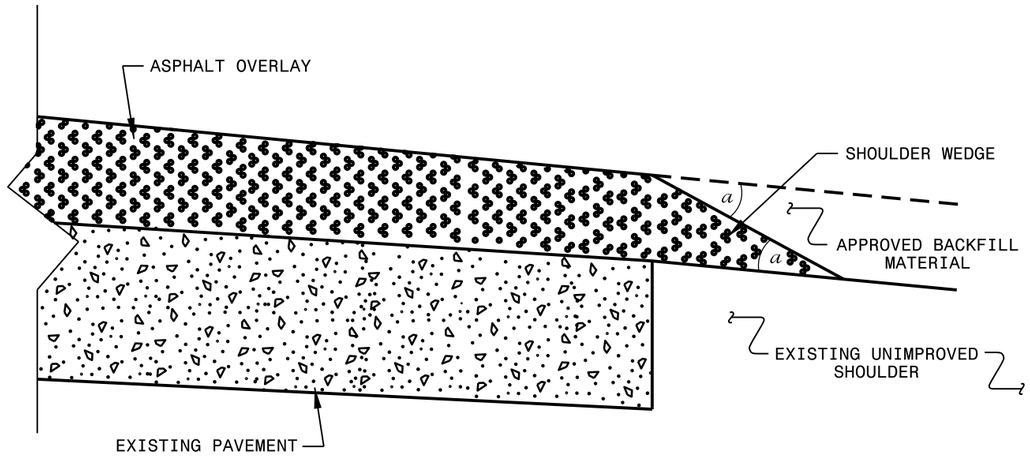
PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	5



NOTES:
1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.

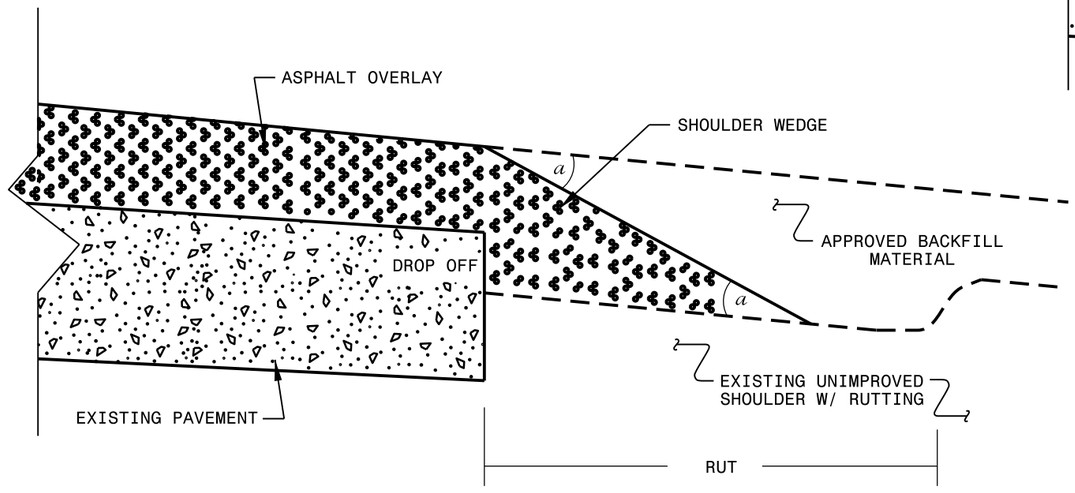
SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

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

SHOULDER WEDGE DETAILS

ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stand\shoulderwedgedetail.dgn		

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	EC-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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

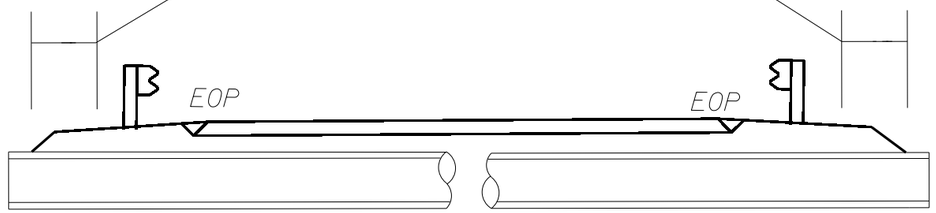
PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	EC-2

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL

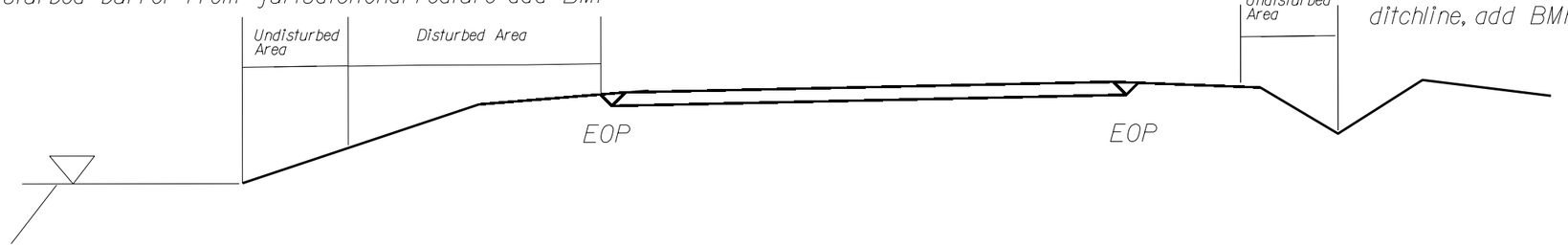
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

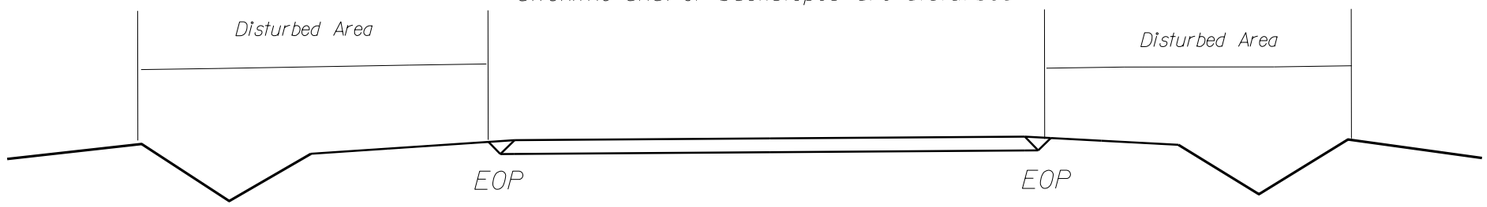
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

< 5' - 10' Undisturbed buffer from ditchline, add BMP

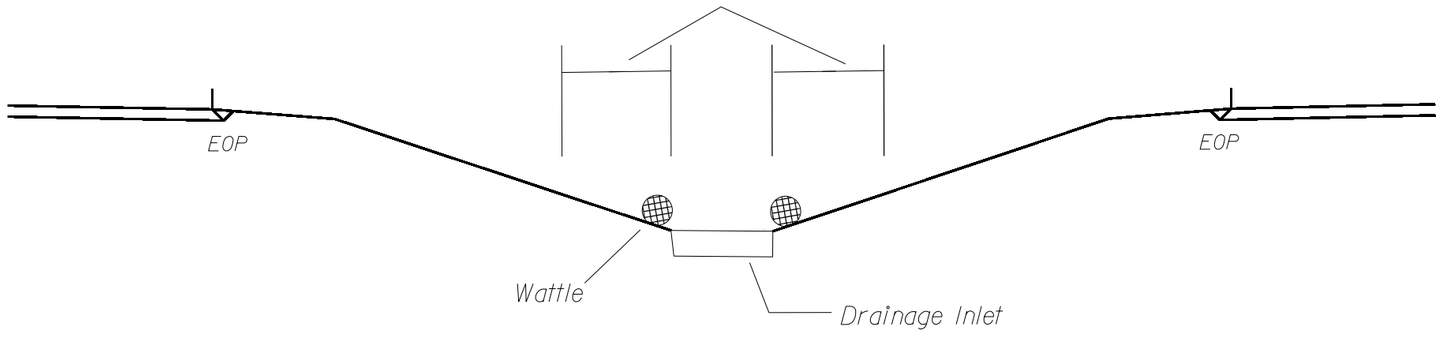


Jurisdictional Feature

Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



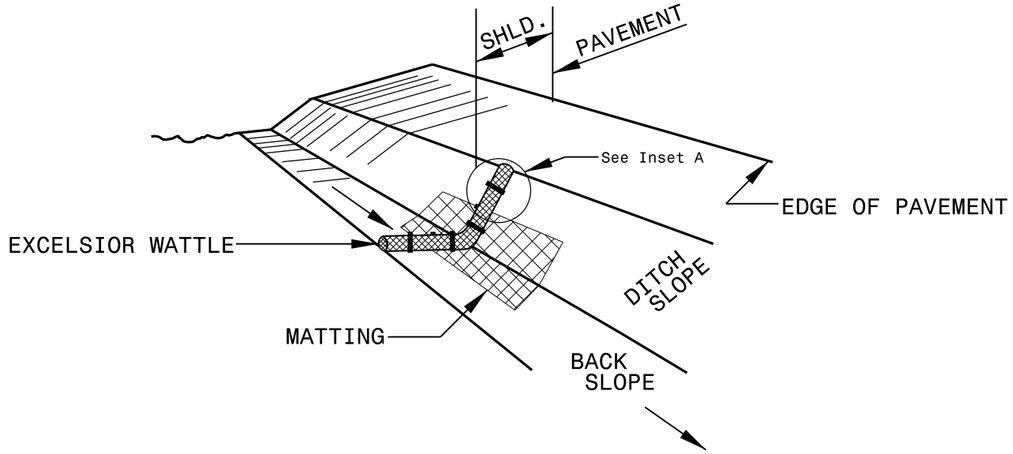
< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	EC-3

WATTLE DETAIL



ISOMETRIC VIEW

CROSS SECTION VEE DITCH

CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

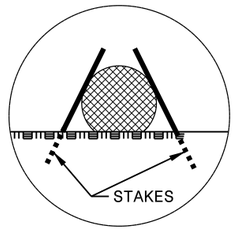
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

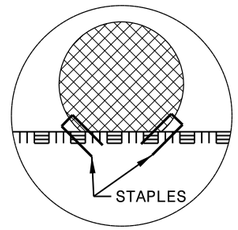
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

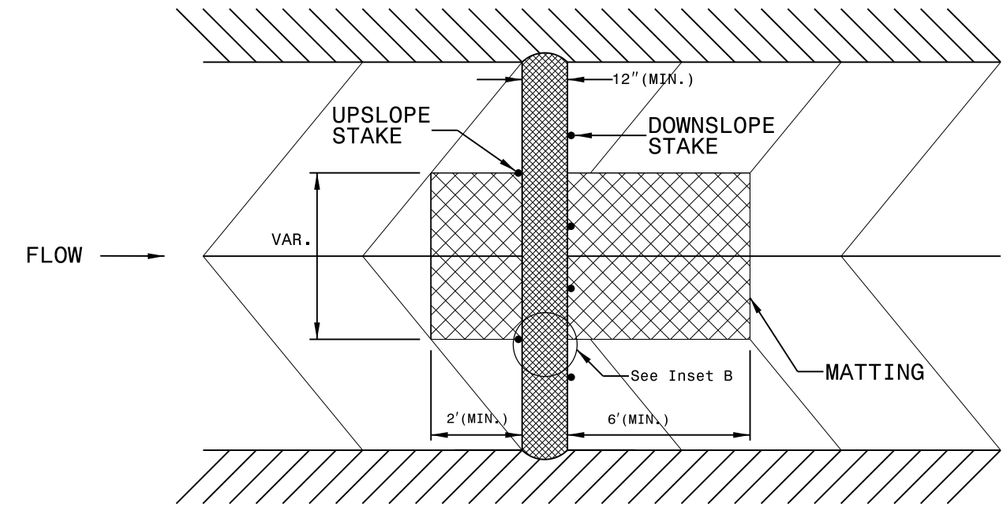
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



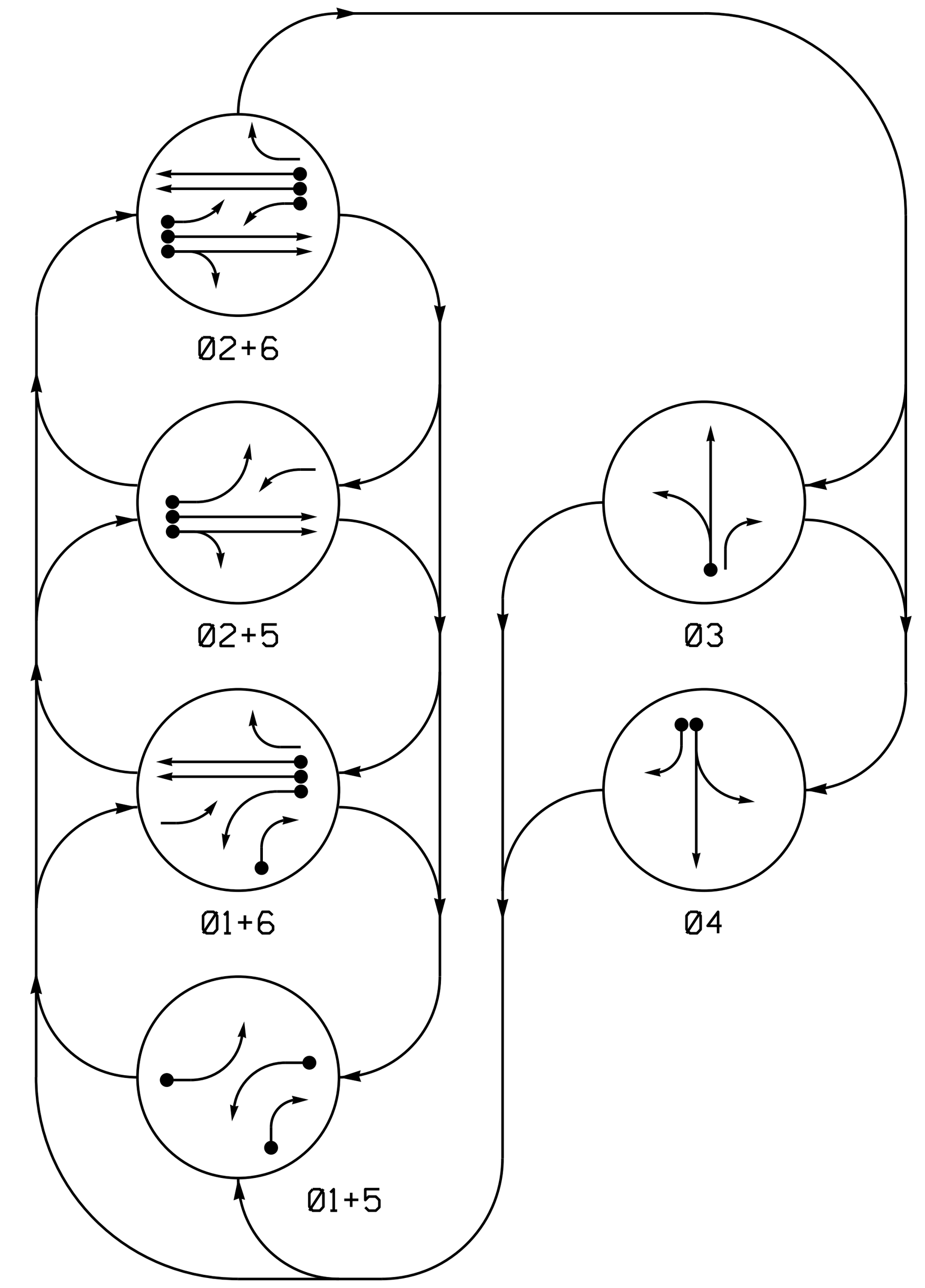
INSET B



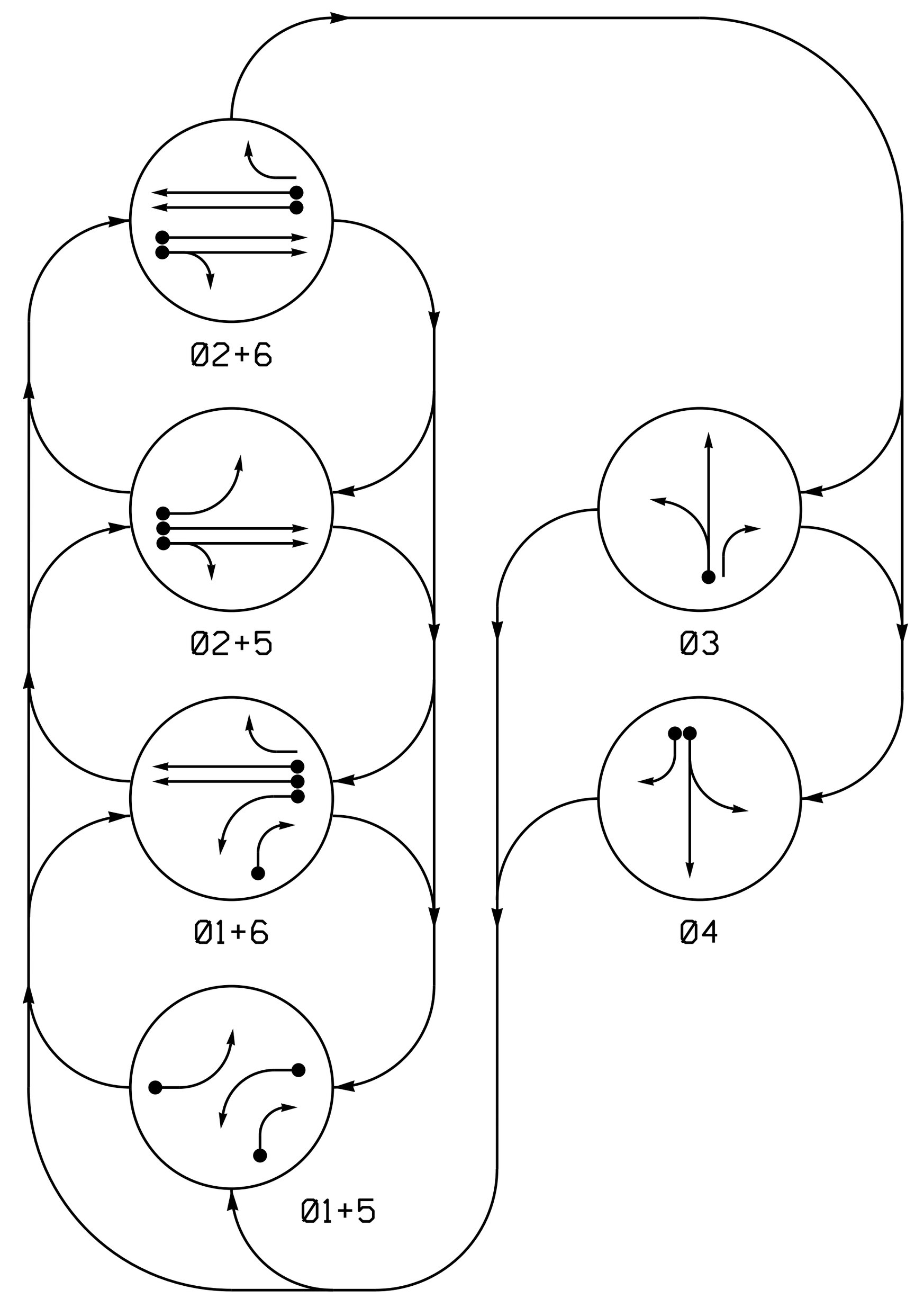
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
	Sig.1.0

DEFAULT PHASING DIAGRAM



ALTERNATE PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

- ◄──● DETECTED MOVEMENT
- ◄── UNDETECTED MOVEMENT (OVERLAP)
- ◄- - - UNSIGNALIZED MOVEMENT
- <- - -> PEDESTRIAN MOVEMENT

DEFAULT PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3	Ø4	PRE 3	PRE 5	FLASH
11	←	←	←F/Y	←F/Y	←R	←R	←	←F/Y	←Y
21,22	R	R	G	G	R	R	R	G	Y
31	R	R	R	R	←G	R	R	R	R
32	R	R	R	R	G	R	R	R	R
33	R/→	R/→	R	R	G	R	R	R	R
41	R	R	R	R	R	←G	R	R	R
42,43	R	R	R	R	R	G	R	R	R
51	←	←F/Y	←	←F/Y	←R	←R	←F/Y	←	←Y
61,62	R	G	R	G	R	R	G	R	Y

ALTERNATE PHASING TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3	Ø4	PRE 3	PRE 5	FLASH
11	←	←	←R	←R	←R	←R	←	←F/Y	←Y
21,22	R	R	G	G	R	R	R	G	Y
31	R	R	R	R	←G	R	R	R	R
32	R	R	R	R	G	R	R	R	R
33	R/→	R/→	R	R	G	R	R	R	R
41	R	R	R	R	R	←G	R	R	R
42,43	R	R	R	R	R	G	R	R	R
51	←	←R	←	←R	←R	←R	←F/Y	←	←Y
61,62	R	G	R	G	R	R	G	R	Y

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PROGRAMMING PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	✱10	-	S	-	-
					✱✱ 6	Yes	-	3	-	G	-	-
1B	6X40	0	2-4-2	-	1	Yes	-	15	-	S	-	-
2A	6X6	300	6	-	2	Yes	-	-	X	N	-	-
2B	6X6	300	6	-	2	Yes	-	-	X	N	-	-
3A	6X40	0	2-4-2	-	3	Yes	-	3	-	S	-	-
4A	6X40	0	2-4-2	-	4	Yes	-	3	-	S	-	-
4B	6X40	0	2-4-2	-	4	Yes	-	10	-	S	-	-
5A	6X40	0	2-4-2	-	5	Yes	-	✱10	-	S	-	-
					✱✱ 2	Yes	-	3	-	G	-	-
6A	6X6	300	5	-	6	Yes	-	-	X	N	-	-
6B	6X6	300	5	-	6	Yes	-	-	X	N	-	-
S1	6X6	+150	3	-	-	-	-	-	-	N	X	-
S2	6X6	+150	3	-	-	-	-	-	-	N	X	-
S3	6X6	+150	5	-	-	-	-	-	-	N	X	-
S4	6X6	+150	5	-	-	-	-	-	-	N	X	-
S5	6X6	300	6	-	-	-	-	-	-	N	X	-
S6	6X6	300	6	-	-	-	-	-	-	N	X	-

✱ Reduce Delay to 3 seconds During Alternate Phasing Operation

✱✱ Disable Phase 2 and 6 Call for Loops 1A and 5A During Alternate Phasing Operation.

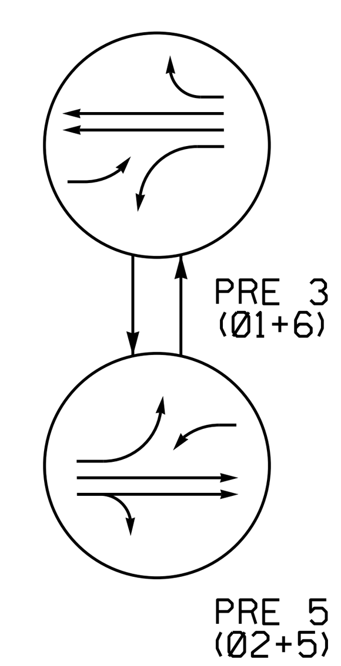
6 Phase w/ EV Preempt
Fully Actuated
Jacksonville Signal System

NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. The Division Traffic Engineer will determine the hours of use for each phasing plan.
7. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

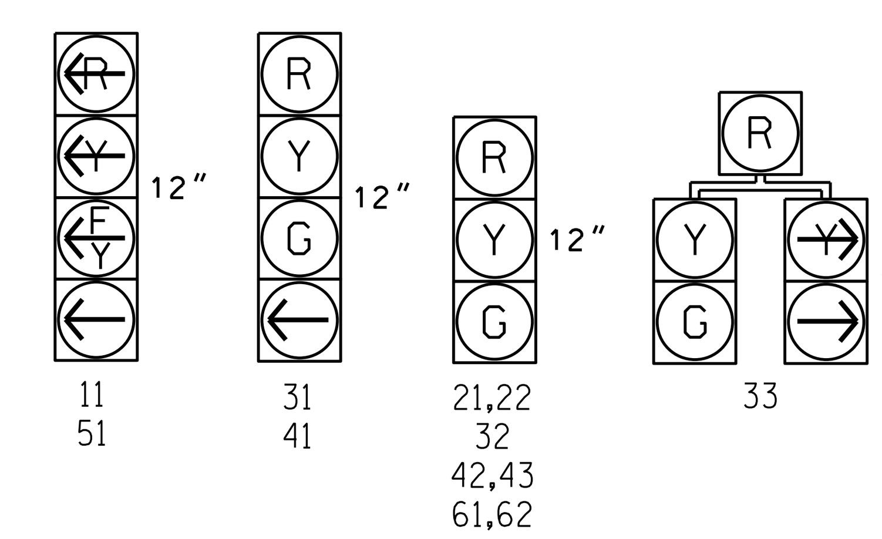
EV PREEMPT PHASES

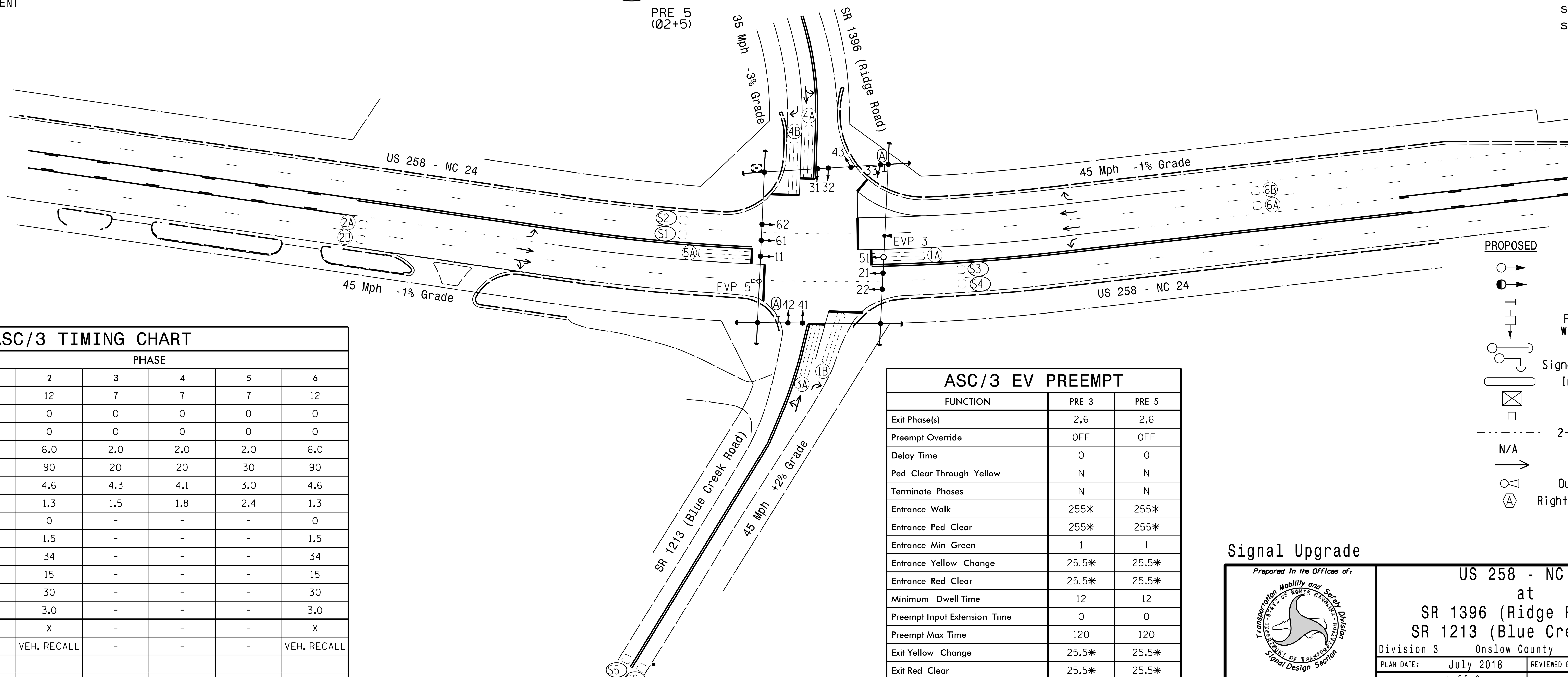
(Medium Priority)



SIGNAL FACE I.D.

All Heads L.E.D.





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	──>
○◁	Out of Pavement Detector	●◀
Ⓐ	Right Arrow "ONLY" Sign (R3-5R)	Ⓐ

ASC/3 TIMING CHART

FEATURE	PHASE 1	2	3	4	5	6
Min Green *	7	12	7	7	7	12
Walk *	0	0	0	0	0	0
Ped Clear	0	0	0	0	0	0
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	30	90	20	20	30	90
Yellow	3.0	4.6	4.3	4.1	3.0	4.6
Red Clear	2.1	1.3	1.5	1.8	2.4	1.3
Actuations B4 Add *	-	0	-	-	-	0
Seconds /Actuation *	-	1.5	-	-	-	1.5
Max Initial *	-	34	-	-	-	34
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	30	-	-	-	30
Minimum Gap	-	3.0	-	-	-	3.0
Locking Detector	-	X	-	-	-	X
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

* 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.

ASC/3 EV PREEMPT

FUNCTION	PRE 3	PRE 5
Exit Phase(s)	2,6	2,6
Preempt Override	OFF	OFF
Delay Time	0	0
Ped Clear Through Yellow	N	N
Terminate Phases	N	N
Entrance Walk	255✱	255✱
Entrance Ped Clear	255✱	255✱
Entrance Min Green	1	1
Entrance Yellow Change	25.5✱	25.5✱
Entrance Red Clear	25.5✱	25.5✱
Minimum Dwell Time	12	12
Preempt Input Extension Time	0	0
Preempt Max Time	120	120
Exit Yellow Change	25.5✱	25.5✱
Exit Red Clear	25.5✱	25.5✱
Preempt Extend	2✱✱	2✱✱

* Allows normal phase times to be used.
** Program Timing on Optical Detection Unit

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

US 258 - NC 24 at SR 1396 (Ridge Road) / SR 1213 (Blue Creek Road)

Division 3 Onslow County Jacksonville

PLAN DATE:	July 2018	REVIEWED BY:	ZML
PREPARED BY:	Jeff Spence	REVIEWED BY:	

SCALE 0 50 1"=50'

REVISIONS	INIT.	DATE

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 030530 ENGINEER ZACHARY M. LITTLE

DocuSigned by: Zachary M. Little 8/30/2018
0C21FED94E5341E
DATE

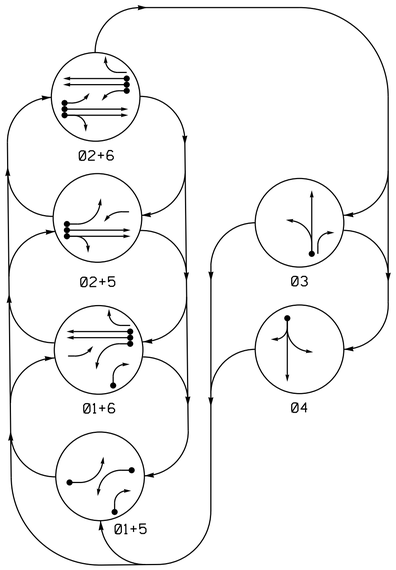
SIG. INVENTORY NO. 03-0123

30-AUG-2018 08:54
S:*ITS&SU*ITS Signals*Signal Design Section*Eastern Region*Div-03*03-0123*030123_sig_dsn_2018mmdd.dgn
jrspence

PROJECT REFERENCE NO.	SHEET NO.
	Sig-1

6 Phase W/ EV Preemption Fully Actuated Jacksonville Signal System

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

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

EV PREEMPT PHASES

(Medium Priority)

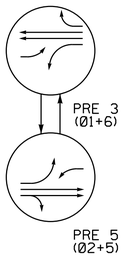


TABLE OF OPERATION

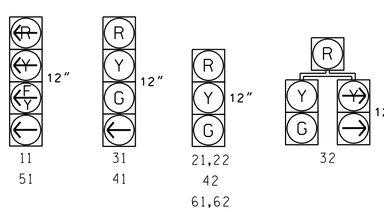
SIGNAL FACE	PHASE								
	Ø1+5	Ø1+6	Ø2+5	Ø2+6	Ø3	Ø4	EVP3	EVP5	FLASH
11	←	←	FY	FY	R	R	←	FY	Y
21,22	R	R	G	G	R	R	R	G	Y
31	R	R	R	R	G	R	R	R	R
32	R/R	R/R	R	R	G	R	R	R	R
41	R	R	R	R	R	G	R	R	R
42	R	R	R	R	G	R	R	R	R
51	←	FY	←	FY	R	R	FY	←	Y
61,62	R	G	R	G	R	R	G	R	Y

ASC/3 DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTEND TIME	DELAY TIME	USE ADDED INITIAL	TYPE	SYSTEM LOOP	NEW CARD
1A	6X40	0	2-4-2	-	1	Yes	-	15	-	S	-	-
				-	6	Yes	-	3	-	G	-	-
1B	6X40	0	2-4-2	-	1	Yes	-	15	-	S	-	-
2A	6X6	420	5	-	2	Yes	2.0	-	X	N	-	-
2B	6X6	420	5	-	2	Yes	2.0	-	X	N	-	-
3A	6X40	0	2-4-2	-	3	Yes	-	3	-	S	-	-
4A	6X40	0	2-4-2	-	4	Yes	-	-	-	S	-	-
4B	6X6	0	5	-	4	Yes	-	10	-	S	-	-
5A	6X40	0	2-4-2	-	5	Yes	-	15	-	S	-	-
				-	2	Yes	-	3	-	G	-	-
6A	6X6	420	5	-	6	Yes	2.0	-	X	N	-	-
6B	6X6	420	5	-	6	Yes	2.0	-	X	N	-	-

SIGNAL FACE I.D.

All Heads L.E.D.



NOTES

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 1 and/or phase 5 may be lagged.
4. The order of phase 3 and phase 4 may be reversed.
5. Set all detector units to presence mode.
6. Pavement markings are existing.
7. This intersection features an optical preemption system. Shown locations of optical detectors are conceptual only.
8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
9. Signal system data: Controller Asset # 0304.

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	
	Directional Drill	N/A
	Metal Pole with Mastarm	
	Out of Pavement Detector	
Ⓐ	"US 258"	Ⓐ
Ⓑ	"Pony Farm Rd"	Ⓑ
Ⓒ	"NW Corridor Blvd"	Ⓒ

ASC/3 TIMING CHART

FEATURE	PHASE					
	1	2	3	4	5	6
Min Green *	7	14	7	7	7	14
Walk *	-	-	-	-	-	-
Ped Clear	-	-	-	-	-	-
Veh. Extension *	2.0	6.0	2.0	2.0	2.0	6.0
Max 1 *	15	90	30	25	15	90
Yellow	3.0	4.5	4.5	4.4	3.0	4.5
Red Clear	3.2	1.9	1.4	1.9	3.3	1.9
Actuations B4 Add *	-	-	-	-	-	-
Seconds /Actuation *	-	1.8	-	-	-	1.8
Max Initial *	-	46	-	-	-	46
Time Before Reduction *	-	15	-	-	-	15
Time To Reduce *	-	45	-	-	-	45
Minimum Gap	-	3.0	-	-	-	3.0
Locking Detector	-	X	-	-	-	X
Recall Position	-	VEH. RECALL	-	-	-	VEH. RECALL
Dual Entry	-	-	-	-	-	-
Simultaneous Gap	X	X	X	X	X	X

* 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.

ASC/3 EV PREEMPT

FUNCTION	PRE 3	PRE 5
Exit Phase(s)	2,6	2,6
Preempt Override	OFF	OFF
Delay Time	0	0
Ped Clear Through Yellow	N	N
Terminate Phases	N	N
Entrance Walk	255*	255*
Entrance Ped Clear	255*	255*
Entrance Min Green	1	1
Entrance Yellow Change	25.5*	25.5*
Entrance Red Clear	25.5*	25.5*
Minimum Dwell Time	14	14
Preempt Input Extension Time	**	**
Preempt Max Time	120	120
Exit Yellow Change	25.5*	25.5*
Exit Red Clear	25.5*	25.5*

* Allows normal phase times to be used.
** Program Timing on Optical Detection unit.

Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: Transportation Mobility and Safety Division — North Carolina Department of Transportation — Signal Design Section

750 N.Greenfield Pkwy.Garner,NC 27529

US 258/NC 24
at
SR 1212 (Pony Farm Road)/
SR 2133 (NW Corridor Blvd.)

Division 3 Onslow County Jacksonville

PLAN DATE: November 2017 REVIEWED BY: ZML

PREPARED BY: Jeff Spence RKA PROJ. NO:

SCALE 0 40 1" = 40"

REVISIONS	INIT.	DATE

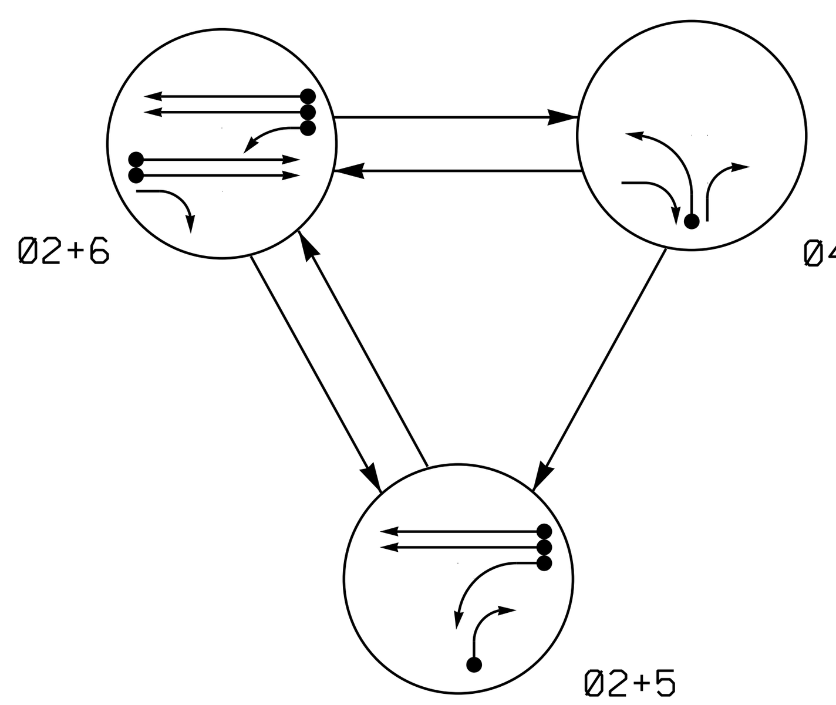
SEAL
NORTH CAROLINA PROFESSIONAL SEAL 030530 ENGINEER ZACHARY M. LITTLE

DocuSigned by: Zachary M. Little 1/9/2018

SIG. INVENTORY NO. 03-0304

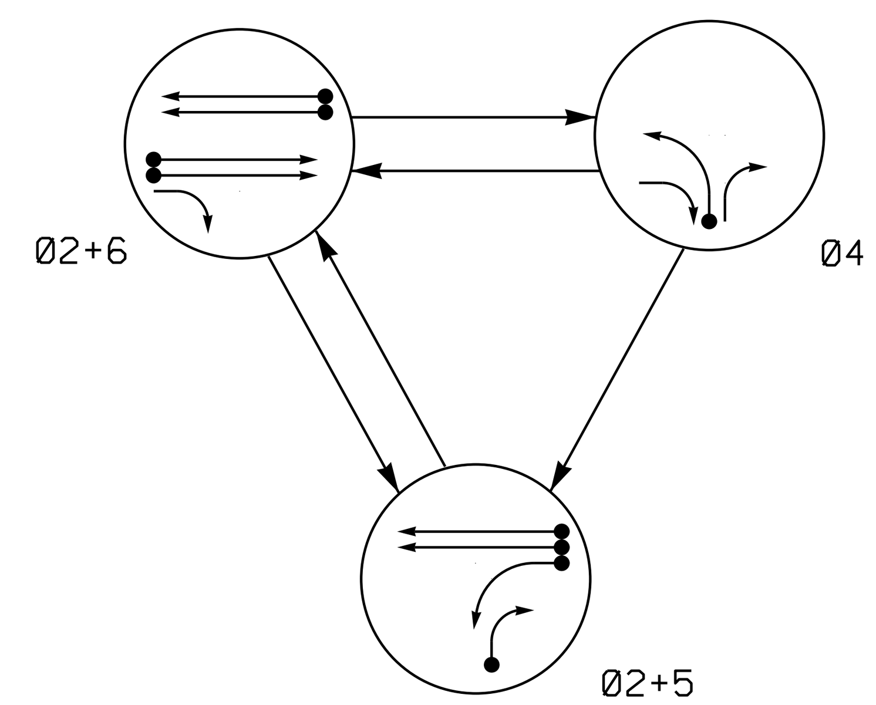
PROJECT REFERENCE NO.	SHEET NO.
36249.4157	Sig-1.0

DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	Ø2+5	Ø2+6	Ø4	FLASH
21,22	G	G	R	Y
41	R	R	G	R
42	R/→	R	G	R
51	←	←F/Y	←R	←Y
61	R	G	R	Y
62	R	G	R/→	Y

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	Ø2+5	Ø2+6	Ø4	FLASH
21,22	G	G	R	Y
41	R	R	G	R
42	R/→	R	G	R
51	←	←R	←R	←Y
61	R	G	R	Y
62	R	G	R/→	Y

PHASING DIAGRAM DETECTION LEGEND

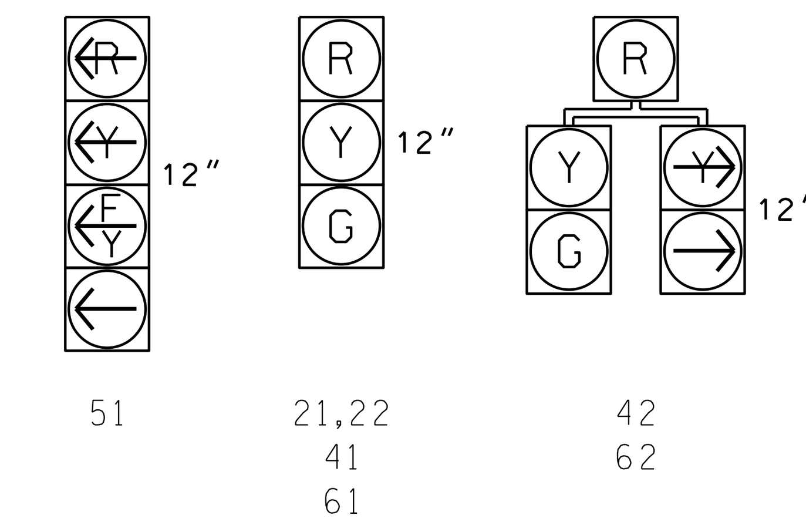
- ◄──● DETECTED MOVEMENT
- ◄── UNDETECTED MOVEMENT (OVERLAP)
- ◄– – UNSIGNALIZED MOVEMENT
- <– – –> PEDESTRIAN MOVEMENT

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6x6	420	5	Y	2	Y	Y	-	-	-	-	Y
2B	6x6	420	5	Y	2	Y	Y	-	-	-	-	Y
4A	6x40	0	2-4-2	Y	4	Y	Y	-	-	3	-	Y
5A	6x40	0	2-4-2	Y	5	Y	Y	-	-	15*	-	Y
					2**	Y	Y	Y	-	3	-	Y
5B	6x40	0	2-4-2	Y	5	Y	Y	-	-	15	-	Y
6A	6x6	420	5	Y	6	Y	Y	-	-	-	-	Y
6B	6x6	420	5	Y	6	Y	Y	-	-	-	-	Y

* Disable delay during Alternate Phasing operation.
** Disable phase call for loop during Alternate Phasing operation.

SIGNAL FACE I.D.

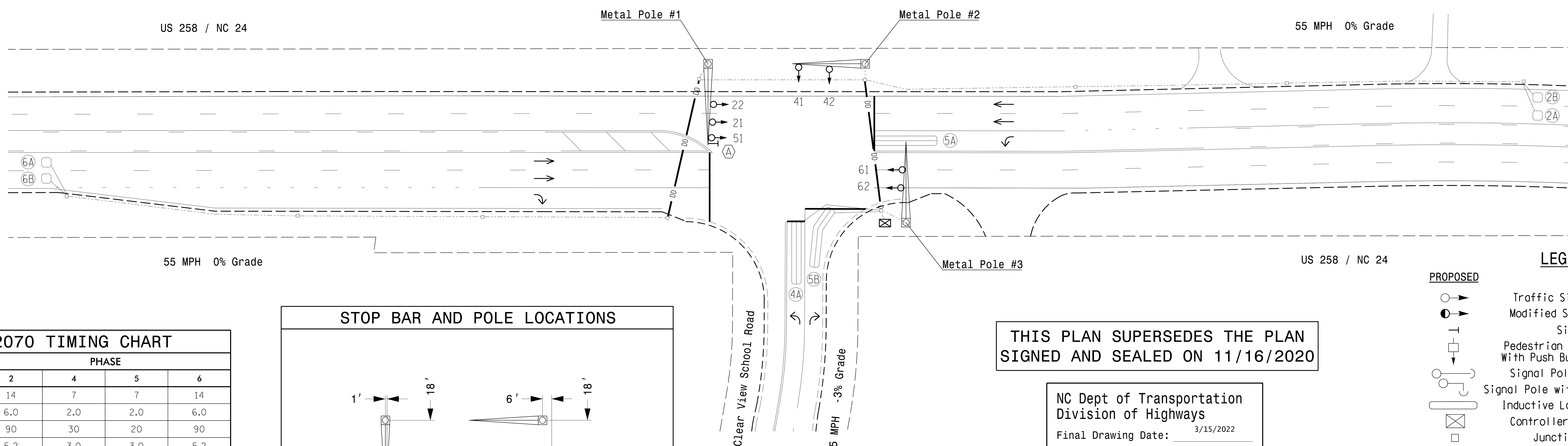
All Heads L.E.D.



3 Phase
Fully Actuated
Jacksonville Signal System

NOTES

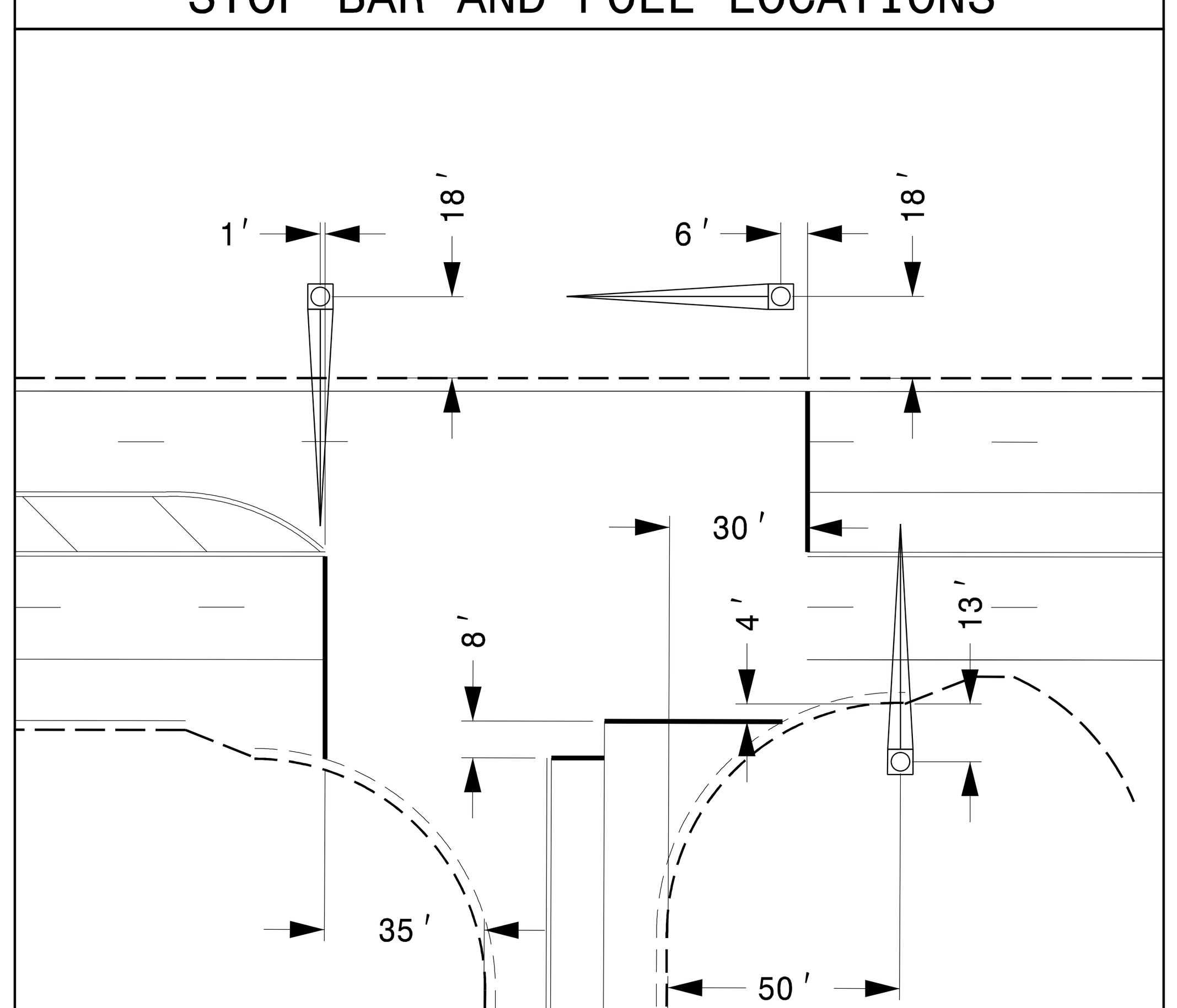
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "Standard Specifications for Roads and Structures" dated January 2018 and all applicable sections of the latest verson of the generic Project Special Provisions. The PSP can be accessed at the following website: https://connect.ncdot.gov/resources/safety/pages/its-and-signals.aspx
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
6. The Division Engineer will determine the hours of use for each phasing plan.
7. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.



OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	14	7	7	14
Extension 1 *	6.0	2.0	2.0	6.0
Max Green 1 *	90	30	20	90
Yellow Clearance	5.2	3.0	3.0	5.2
Red Clearance	1.0	2.3	2.6	1.0
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	1.5	-	-	1.5
Max Variable Initial *	46	-	-	46
Time Before Reduction *	15	-	-	15
Time To Reduce *	30	-	-	30
Minimum Gap	3.4	-	-	3.4
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

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

STOP BAR AND POLE LOCATIONS



THIS PLAN SUPERSEDES THE PLAN SIGNED AND SEALED ON 11/16/2020

NC Dept of Transportation
Division of Highways
Final Drawing Date: 3/15/2022
DocuSigned by: Zachary M. Little
ITS & Signals Unit

LEGEND

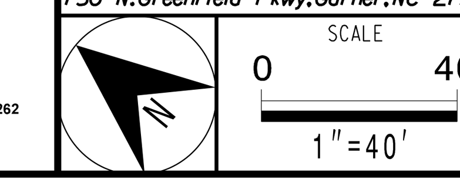
PROPOSED		EXISTING
○→	Traffic Signal Head	●→
◐→	Modified Signal Head	N/A
⊣	Sign	⊣
□	Pedestrian Signal Head With Push Button & Sign	■
○—)	Signal Pole with Guy	●—◗
○—⌣	Signal Pole with Sidewalk Guy	●—◒
▭	Inductive Loop Detector	▭
☒	Controller & Cabinet	☒
□	Junction Box	■
- - - -	2-in Underground Conduit	- - - -
N/A	Right of Way	— — —
→	Directional Arrow	→
○▷	Metal Pole with Mastarm	●▷
Ⓐ	"U-TURN YIELD TO RIGHT TURN" Sign (R10-16)	Ⓐ

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

New Installation

Prepared for: Transportation Mobility and Safety Division, State of North Carolina Department of Transportation, Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

RAMEY KEMP ASSOCIATES
8210 University Executive Park Drive Suite 220 Charlotte, North Carolina 28262
Phone: 704-549-4260 | www.rameykemp.com | NC License No. C-0910



US 258 / NC 24
at
Clear View School Road

Division 3	Onslow County	Jacksonville	
PLAN DATE:	February 2022	REVIEWED BY:	WJ Hamilton
PREPARED BY:	ZM Esposito	RKA PROJ. NO:	20133 (040)

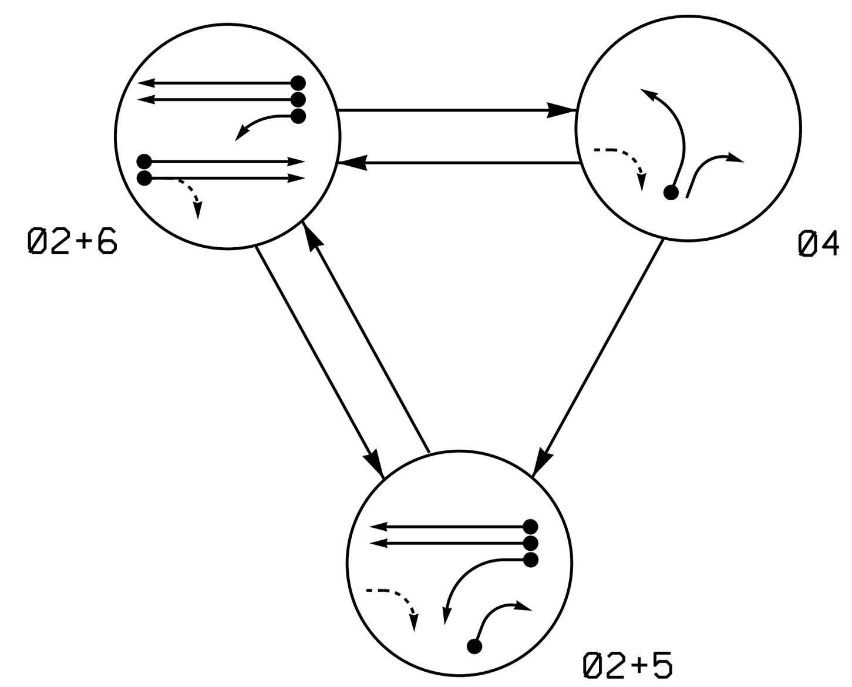
REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32396 WILLIAM J. HAMILTON
DocuSigned by: William J. Hamilton
SIGNATURE 2/23/2022 DATE

SIG. INVENTORY NO. 03-1161

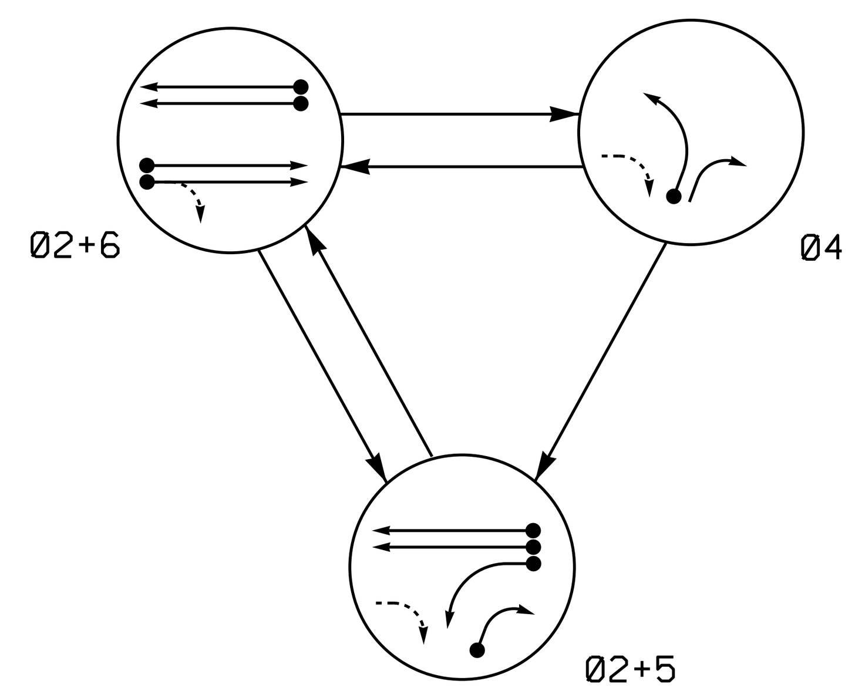
PROJECT REFERENCE NO.	SHEET NO.
SS-4903DK	Sig.1.0

DEFAULT PHASING DIAGRAM



DEFAULT PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	Ø2+5	Ø2+6	Ø4	FLASH
21,22	G	G	R	Y
41	R	R	G	R
42,43	R/→	R	G	R
51	←	←FY	←R	←Y
61,62	R	G	R	Y

ALTERNATE PHASING DIAGRAM



ALTERNATE PHASING TABLE OF OPERATION				
SIGNAL FACE	PHASE			
	Ø2+5	Ø2+6	Ø4	FLASH
21,22	G	G	R	Y
41	R	R	G	R
42,43	R/→	R	G	R
51	←	←R	←R	←Y
61,62	R	G	R	Y

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART												
INDUCTIVE LOOPS					DETECTOR PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
2A	6X6	420	5	-	2	Y	Y	-	-	-	-	-
2B	6X6	420	5	-	2	Y	Y	-	-	-	-	-
4A	6X40	0	2-4-2	-	4	Y	Y	-	-	-	-	-
5A	6X40	0	2-4-2	-	5	Y	Y	-	-	15✻	-	-
					2✻✻	Y	Y	Y	-	3	-	-
5B	6X40	0	2-4-2	-	5	Y	Y	-	-	15	-	-
6A	6X6	420	5	-	6	Y	Y	-	-	-	-	-
6B	6X6	420	5	-	6	Y	Y	-	-	-	-	-

✻ Disable delay during alternate phasing operation
✻✻ Disable phase 2 call for loop 5A during alternate phasing operation

3 Phase
Fully Actuated
Isolated

NOTES

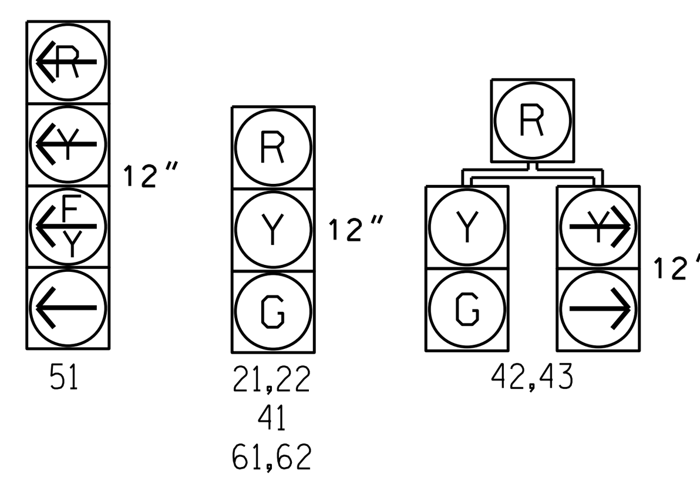
1. Refer to "Roadway Standard Drawings NCDOT" dated January 2018 and "Standard Specifications for Roads and Structures" dated January 2018.
2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
3. Phase 5 may be lagged.
4. Set all detector units to presence mode.
5. Pavement markings are existing.
6. The Division Traffic Engineer will determine the hours of use for each phasing plan.

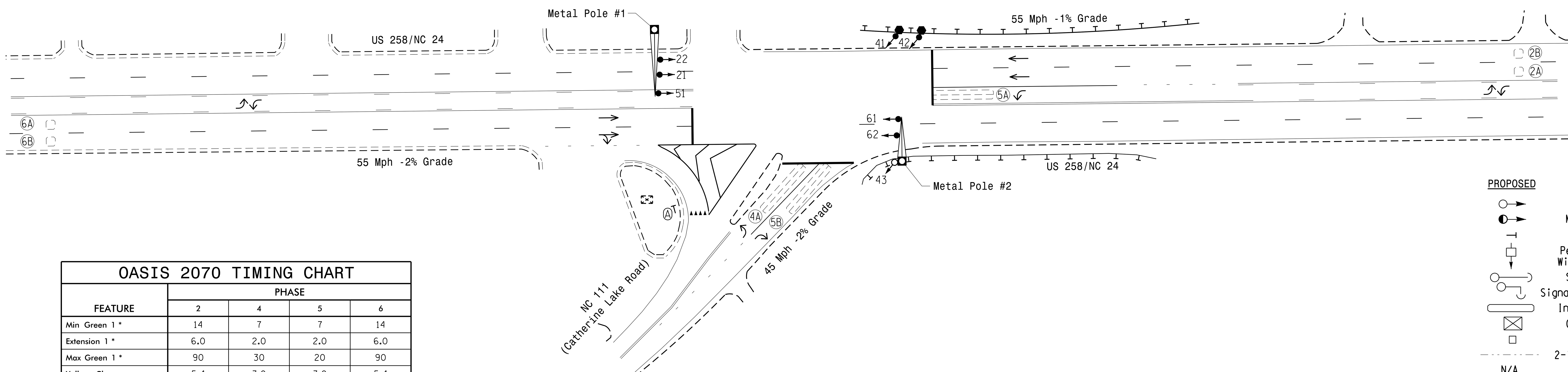
PHASING DIAGRAM DETECTION LEGEND

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

SIGNAL FACE I.D.

All Heads L.E.D.





OASIS 2070 TIMING CHART				
FEATURE	PHASE			
	2	4	5	6
Min Green 1 *	14	7	7	14
Extension 1 *	6.0	2.0	2.0	6.0
Max Green 1 *	90	30	20	90
Yellow Clearance	5.4	3.0	3.0	5.4
Red Clearance	1.7	2.6	3.4	1.7
Walk 1 *	-	-	-	-
Don't Walk 1	-	-	-	-
Seconds Per Actuation *	1.5	-	-	1.5
Max Variable Initial *	46	-	-	46
Time Before Reduction *	15	-	-	15
Time To Reduce *	45	-	-	45
Minimum Gap	3.4	-	-	3.4
Recall Mode	MIN RECALL	-	-	MIN RECALL
Vehicle Call Memory	YELLOW	-	-	YELLOW
Dual Entry	-	-	-	-
Simultaneous Gap	ON	ON	ON	ON

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

LEGEND

PROPOSED		EXISTING
	Traffic Signal Head	
	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	
	Metal Pole with Mastarm	
	Signal Pedestal	
Ⓐ	"YIELD" Sign (R1-2)	Ⓐ

Signal Upgrade - Corr.File No. 03-17-49593

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SCALE 0 40 1"=40'

US 258 / NC 24
at
NC 111 (Catherine Lake Road)

Division 3 Onslow County Jacksonville

PLAN DATE:	February 2018	REVIEWED BY:	ZML
PREPARED BY:	Jeff Spence	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 030530 ENGINEER ZACHARY M. LITTLE

DocuSigned by:
Zachary M. Little 4/18/2018
0C21EED94E5341E

SIG. INVENTORY NO. 03-0322

16-APR-2018 14:04
S:*ITS&SU*ITS Signals*Signal Design Section*Eastern Region*Div-03*03-0322*030322_sig_dsn_2018mmdd.dgn
jrspence

PROJECT NO.	SHEET NO.
2025CPT.03.19.10671	10

SUMMARY OF QUANTITIES

														0106000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1523000000-E	1575000000-E	1705000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**FINAL SURFACE TESTING REQUIRED**	**WARM MIX ASPHALT REQUIRED**	**LENGTH**	**WIDTH**	**BEGIN MP**	**END MP**	**BORROW EXCAVATION**	**INCIDENTAL STONE BASE**	**SHOULDER RECONSTRUCTION**	**2" MILLING**	**INCIDENTAL MILLING**	**SURFACE COURSE, S9.5C**	**ASPHALT BINDER FOR PLANT MIX**	**PATCHING EIXSTING PAVEMENT (FULL DEPTH)**
										MI	**FT**			**CY**	**TON**	**SMI**	**SY**	**SY**	**TON**	**TON**	**TON**
2025CPT.03.19.10671	Onslow	1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	1, 2	5	MU	NO	NO	4.61	60-66	1.75	6.36	461	50	3.50	181,880	1,503	20,870	1,308	1,600
TOTAL FOR MAP NO. 1										**4.61**				**461**	**50**	**3.50**	**181,880**	**1,503**	**20,870**	**1,308**	**1,600**
TOTAL FOR PROJ NO. 2025CPT.03.19.10671										**4.61**				**461**	**50**	**3.50**	**181,880**	**1,503**	**20,870**	**1,308**	**1,600**
GRAND TOTAL										**4.61**				**461**	**50**	**3.50**	**181,880**	**1,503**	**20,870**	**1,308**	**1,600**

PROJECT NO.	SHEET NO.
2025CPT.03.19.10671	11

SUMMARY OF QUANTITIES

															2549000000-E	2738000000-E	2752000000-E	2759000000-N	2815000000-N	2830000000-N	2845000000-N	3420000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**FINAL SURFACE TESTING REQUIRED**	**WARM MIX ASPHALT REQUIRED**	**LENGTH**	**WIDTH**	**BEGIN MP**	**END MP**		**2'-6" CONCRETE CURB & GUTTER**	**REMOVE & REPLACE 6" CONCRETE DRIVEWAY**	**2'-6" CURB & GUTTER, REMOVE & REPLACE**	**REMOVE CURB RAMPS**	**ADJUSTMENT OF DROP INLET**	**ADJUSTMENT OF MANHOLES**	**ADJUSTMENT OF METER OR VALVE BOX**	**REMOVE & REPLACE EXISTING GUARDRAIL**
										MI	**FT**				**LF**	**SY**	**LF**	**EA**	**EA**	**EA**	**EA**	**LF**
2025CPT.03.19.10671	Onslow	1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	1, 2	5	MU	NO	NO	4.61	60-66	1.75	6.36		495	12	165	30	1	14	11	300
TOTAL FOR MAP NO. 1										**4.61**					**495**	**12**	**165**	**30**	**1**	**14**	**11**	**300**
TOTAL FOR PROJ NO. 2025CPT.03.19.10671										**4.61**					**495**	**12**	**165**	**30**	**1**	**14**	**11**	**300**
GRAND TOTAL										**4.61**					**495**	**12**	**165**	**30**	**1**	**14**	**11**	**300**

PROJECT NO.	SHEET NO.
2025CPT.03.19.10671	12

SUMMARY OF QUANTITIES

														3435000000-N		5255000000-N	6000000000-E	6009000000-E	6012000000-E	6015000000-E	6018000000-E	6021000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	GUARDRAIL PREFAB ANCHOR POST	REMOVE & REPLACE GREU TL-3	PORTABLE LIGHTING	TEMPORARY SILT FENCE	STONE FOR EC CLASS B	SEDIMENT CONTROL STONE	TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING
										MI	FT			EA	EA	LS	LF	TON	TON	ACR	LBS	TON
2025CPT.03.19.10671	Onslow	1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	1, 2	5	MU	NO	NO	4.61	60-66	1.75	6.36	2	9	1	300	50	50	2.00	100	0.50
TOTAL FOR MAP NO. 1										**4.61**				**2**	**9**	**1**	**300**	**50**	**50**	**2.00**	**100**	**0.50**
TOTAL FOR PROJ NO. 2025CPT.03.19.10671										**4.61**				**2**	**9**	**1**	**300**	**50**	**50**	**2.00**	**100**	**0.50**
														11								
GRAND TOTAL										**4.61**				**2**	**9**	**1**	**300**	**50**	**50**	**2.00**	**100**	**0.50**
														11								

PROJECT NO.	SHEET NO.
2025CPT.03.19.10671	13

SUMMARY OF QUANTITIES

															6036000000-E	6042000000-E	6071010000-E	6084000000-E	6090000000-E	6093000000-E	7444000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**FINAL SURFACE TESTING REQUIRED**	**WARM MIX ASPHALT REQUIRED**	**LENGTH**	**WIDTH**	**BEGIN MP**	**END MP**		**MATTING FOR EROSION CONTROL**	**1/4" HARDWARE CLOTH**	**WATTLE**	**SEED & MULCHING**	**SEED FOR REPAIR SEEDING**	**FERTILIZER FOR REPAIR SEEDING**	**INDUCTIVE LOOP SAWCUT**
										MI	**FT**				**SY**	**LF**	**LF**	**AC**	**LB**	**TON**	**LF**
2025CPT.03.19.10671	Onslow	1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	1, 2	5	MU	NO	NO	4.61	60-66	1.75	6.36		450	100	40	2.00	100	0.50	680
TOTAL FOR MAP NO. 1										**4.61**					**450**	**100**	**40**	**2.00**	**100**	**0.50**	**680**
TOTAL FOR PROJ NO. 2025CPT.03.19.10671										**4.61**					**450**	**100**	**40**	**2.00**	**100**	**0.50**	**680**
GRAND TOTAL										**4.61**					**450**	**100**	**40**	**2.00**	**100**	**0.50**	**680**

PROJECT NO.	SHEET NO.
2025CPT.03.19.10671	14

THERMOPLASTIC AND PAINT QUANTITIES

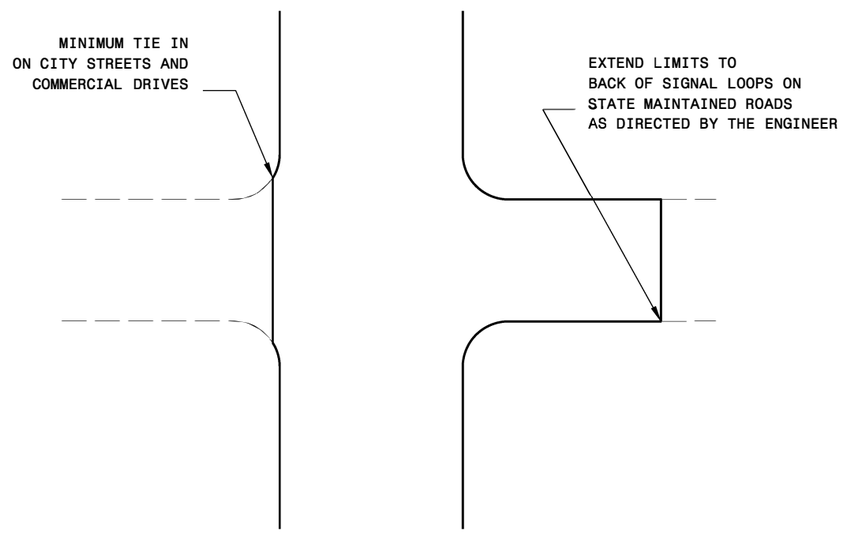
												4413000000-E	4415000000-N	4420000000-N	4434000000-N	4457000000-N	4480000000-N	4510000000-N	4688000000-E		4700000000-E	4709000000-E
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**BEGIN MP**	**END MP**	**WORK ZONE ADVANCE/GENERAL WARNING SIGNING**	**FLASHING ARROW BOARD**	**PORT CHANG MSG SIGN**	**SEQUENTIAL FLASHING WARNING LIGHTS**	**TEMPORARY TRAFFIC CONTROL**	**TMA**	**LAW ENFORCEMENT**	**6" X 90 M WHITE THERMO**	**6" X90 M YELLOW THERMO**	**12" X 90 M WHITE THERMO**	**THERMOPLASTIC PAVEMENT MARKING LINES (24" X 90 MILS)**
								MI	**FT**			**SF**	**EA**	**EA**	**EA**	**LS**	**EA**	**HR**	**LF**	**LF**	**LF**	**LF**
2025CPT.03.19.10671	Onslow	1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	1, 2	5	MU	4.61	60-66	1.75	6.36	192	2	2	14	1	2	400	68,820	62,710	530	500
TOTAL FOR MAP NO. 1								**4.61**				**192**	**2**	**2**	**14**	**1**	**2**	**400**	**68,820**	**62,710**	**530**	**500**
TOTAL FOR PROJ NO. 2025CPT.03.19.10671								**4.61**				**192**	**2**	**2**	**14**	**1**	**2**	**400**	**68,820**	**62,710**	**530**	**500**
																			131,530			
GRAND TOTAL								**4.61**				**192**	**2**	**2**	**14**	**1**	**2**	**400**	**68,820**	**62,710**	**530**	**500**
																			131,530			

PROJECT NO.	SHEET NO.
2025CPT.03.19.10671	15

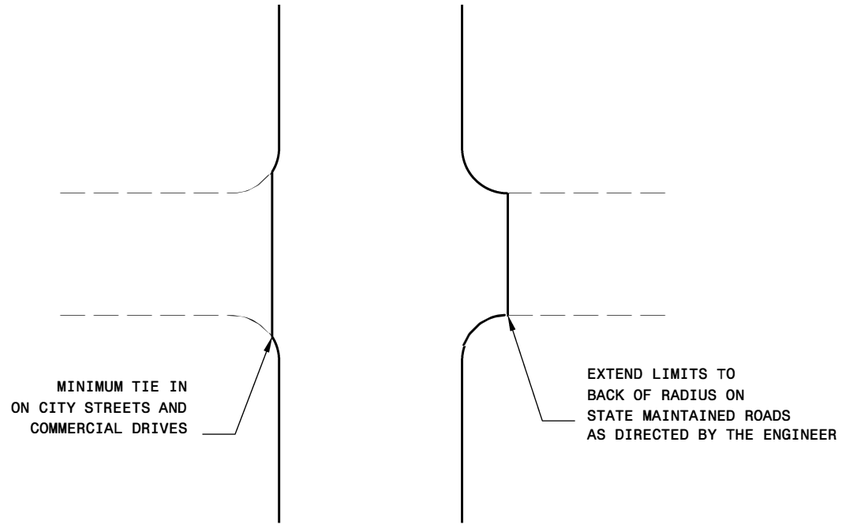
THERMOPLASTIC AND PAINT QUANTITIES

												4725000000-E					4905100000-N	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	THERMO STR & RT ARROW (90 MIL)	THERMO RT ARROW (90 MIL)	THERMO LT ARROW (90 MIL)	THERMO STR ARROW (90 MIL)	THERMO STR & LT ARROW (90 MIL)	NON CAST IRON SNOWPLOWABLE MARKERS (Y/Y)	NON CAST IRON SNOWPLOWABLE MARKERS (C/R)
								MI	FT			EA	EA	EA	EA	EA	EA	EA
2025CPT.03.19.10671	Onslow	1	US-258	FROM .13 MI. EAST OF SR 1213 (BLUE CREEK RD.) TO .06 MI. EAST OF NC 111 (CATHERINE LAKE RD.) [MP 1.75 - MP 6.36]	1, 2	5	MU	4.61	60-66	1.75	6.36	8	26	170	18	4	1,877	175
TOTAL FOR MAP NO. 1								**4.61**				**8**	**26**	**170**	**18**	**4**	**1,877**	**175**
TOTAL FOR PROJ NO. 2025CPT.03.19.10671								**4.61**				**8**	**26**	**170**	**18**	**4**	**1,877**	**175**
												226					**2,052**	
GRAND TOTAL								**4.61**				**8**	**26**	**170**	**18**	**4**	**1,877**	**175**
												226					**2,052**	

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	16



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

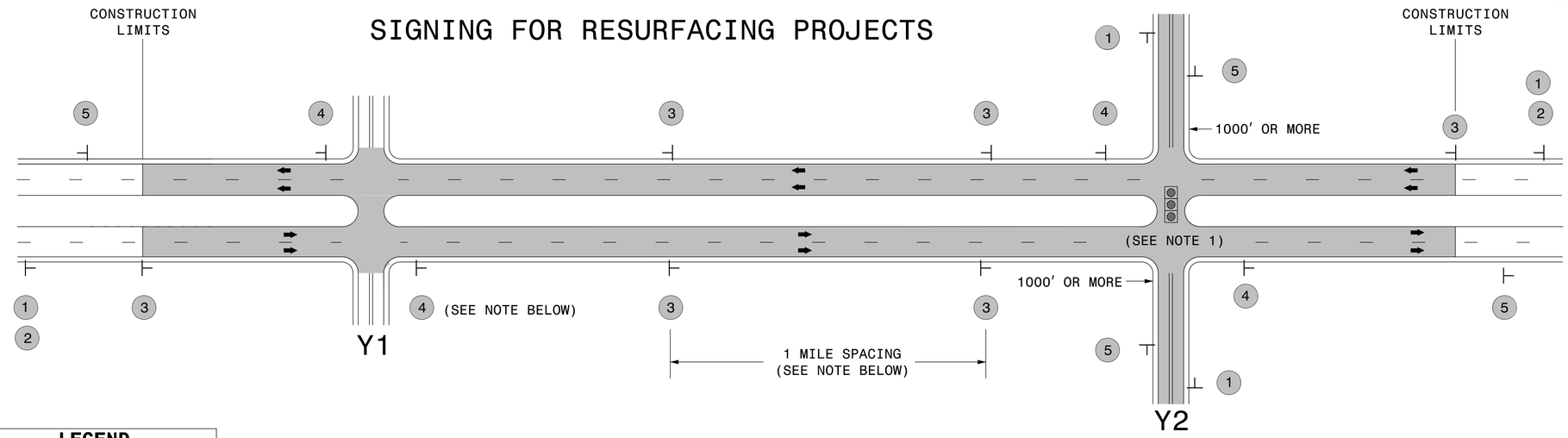
ADDITIONAL INTERSECTIONS (NON-TYPICAL)

Extend paving limits to back of radius
or loop on the following intersections:

MAP#	STREET NAME	COMMENTS
1	US-258 & SR 1212 PONY FARM RD.	PAVE UP TO EXISTING JOINT
		APPROX. 100 LF FROM US-258

PROJ. REFERENCE NO.	SHEET NO.
2025CPT.03.19.10671	TCP-1

SIGNING FOR RESURFACING PROJECTS



LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 — ROAD WORK AHEAD (W20-1, 48″ X 48″)
PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

2 — NEXT XX MILES (W7-3aP, 24″ X 18″)
#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)

3 — LOW/SOFT SHOULDER (SP 13107, 48″ X 48″)
PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.

4 — ROAD UNDER CONST (SP 13106, 48″ X 48″)
THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500′ +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500′ OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.

5 — END ROAD WORK (G20-2 A, 48″ X 24″)
PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-Y- LINE SIGNING

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

1) LESS THAN 1000′ OF RESURFACING ALONG -Y- LINE
2) SUBDIVISION ROADS
3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

ROAD WORK AHEAD (W20-1, 48″ X 48″) — PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A (48″ X 48″) — PLACED 250′ IN ADVANCE OF FLAGGER.

NOTES:

1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500′ IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.

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

RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN MULTI-LANE ROADWAYS W/ SHOULDER SECTIONS

3/23/2015
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_UrSu_Shldr.dgn
User:rmgarrett