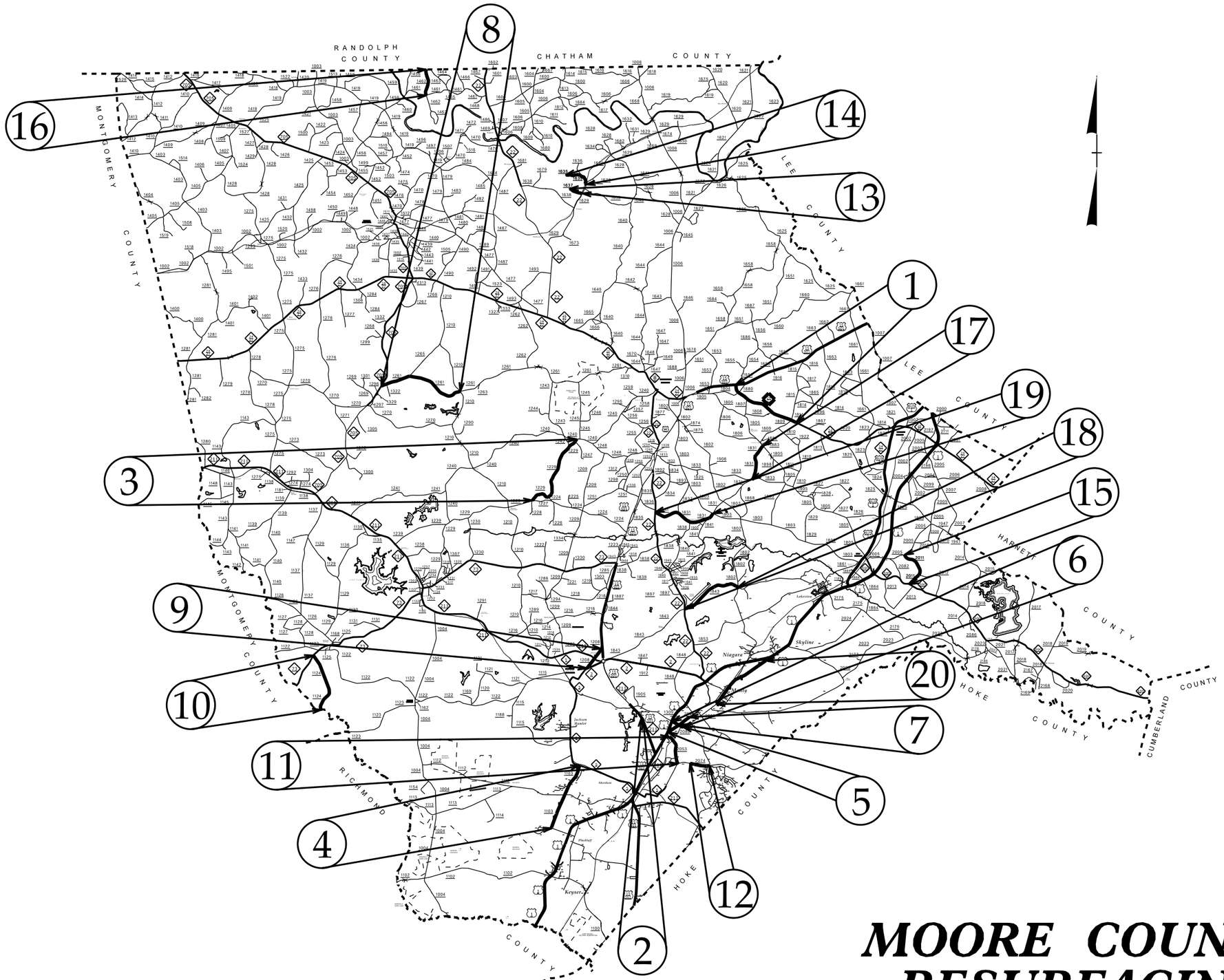
WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	1

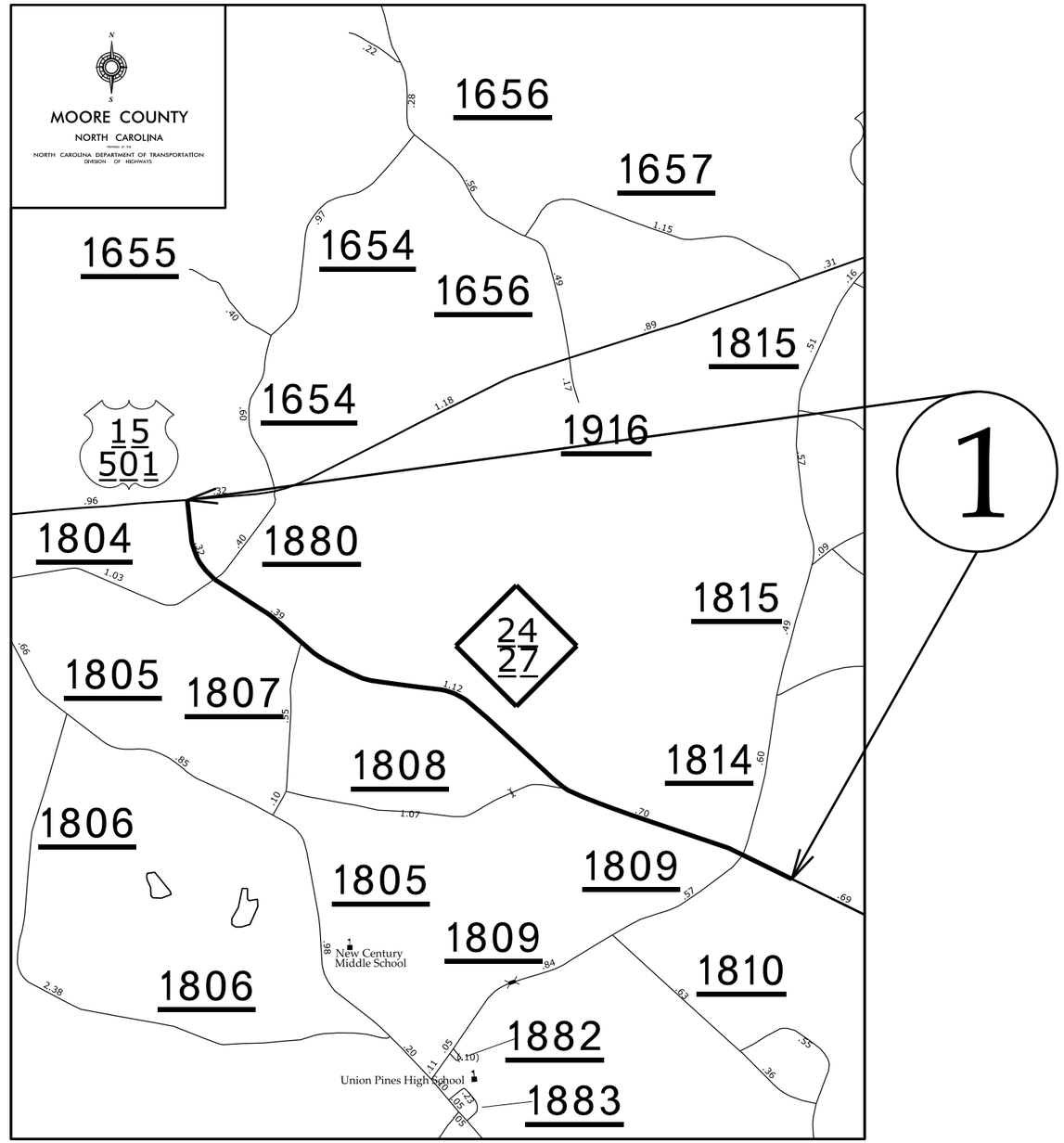


MOORE COUNTY RESURFACING

17-SEP-2021 10:00
2021-2022 Resurfacing\Moore_November-2021\Submittal\Moore_November-2021_Maps_Typ.dgn
Betts, AT DIV8 3013605

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	2

Map 1



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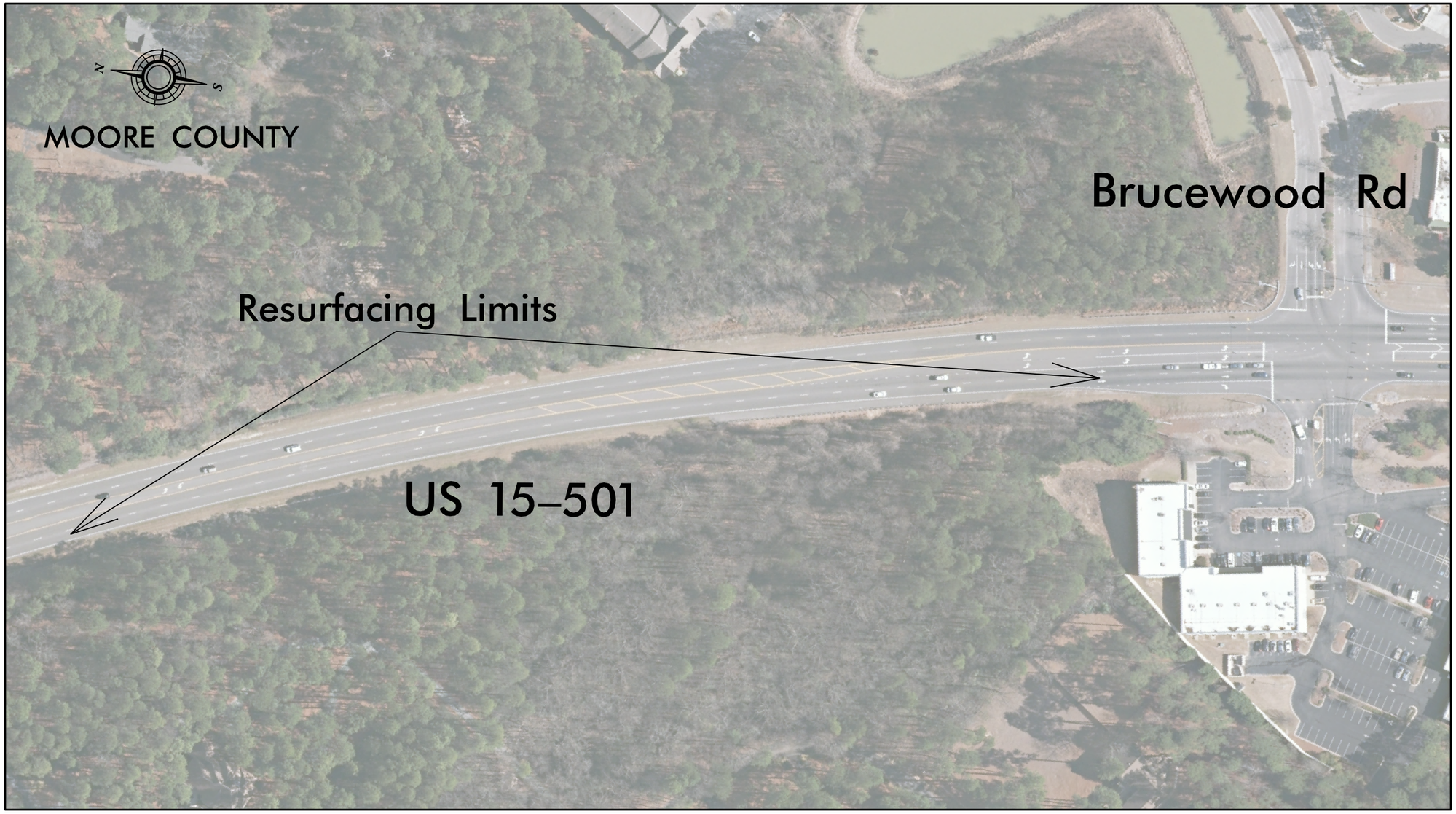
Betts, BT DIV8-302605

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	3

Map 2 - US 15-501 SB Outside Lane Only
(Approximate limits - from beginning of right turn taper to 1245' North)



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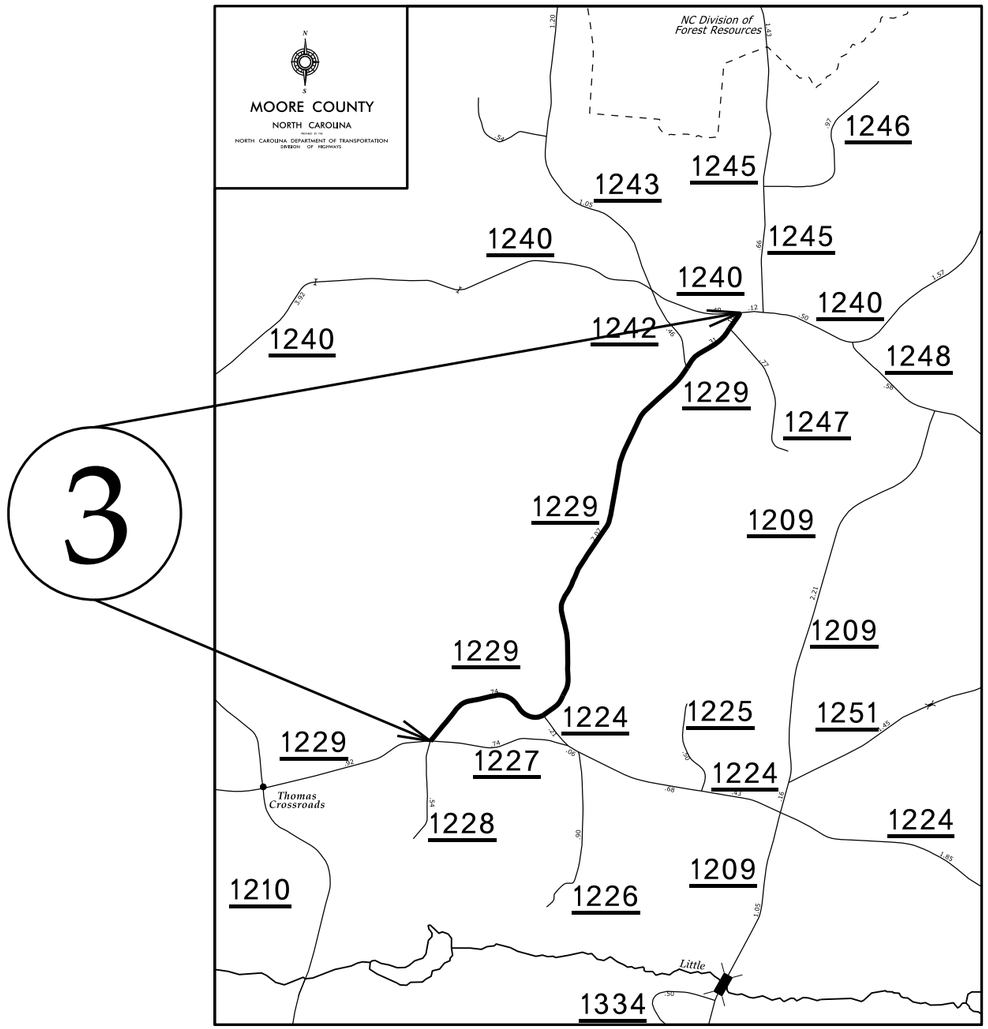
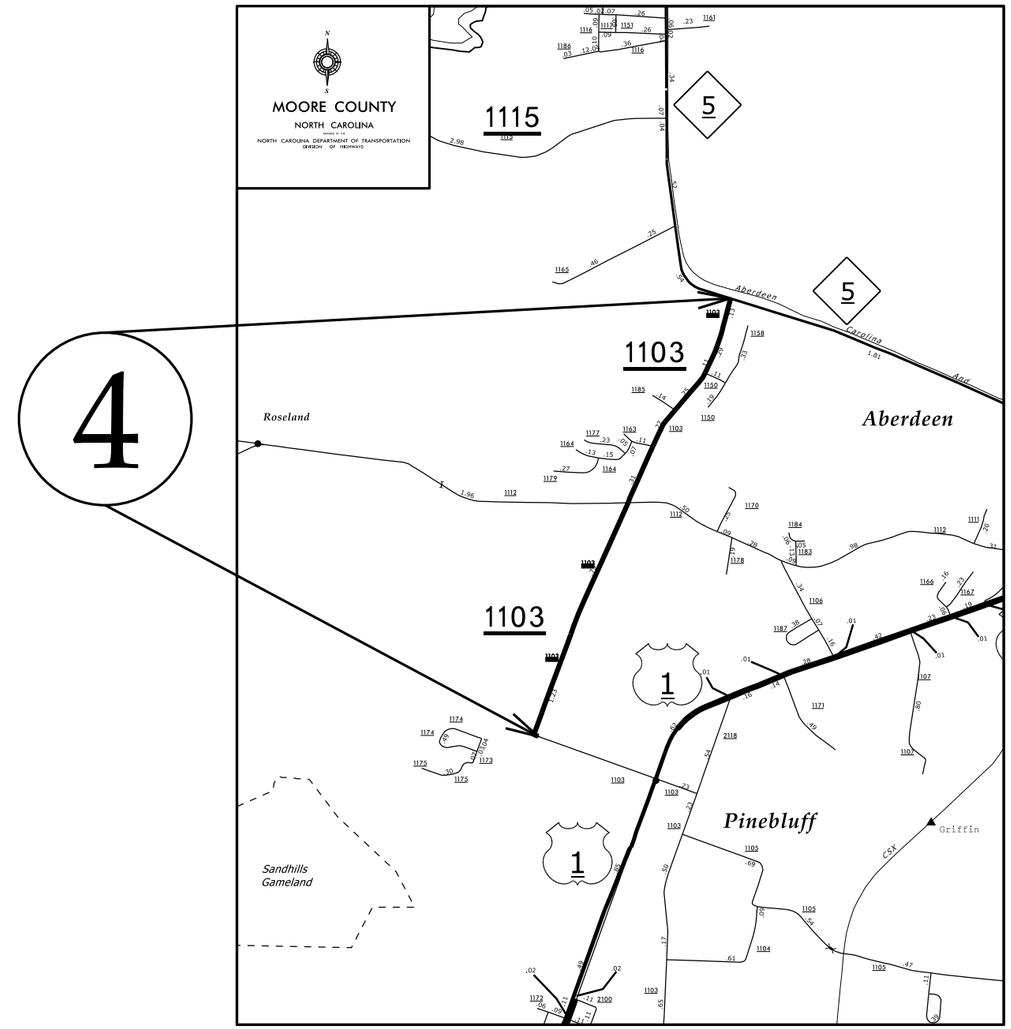
kette AT DIV2-3036051

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	4

Map 3



Map 4



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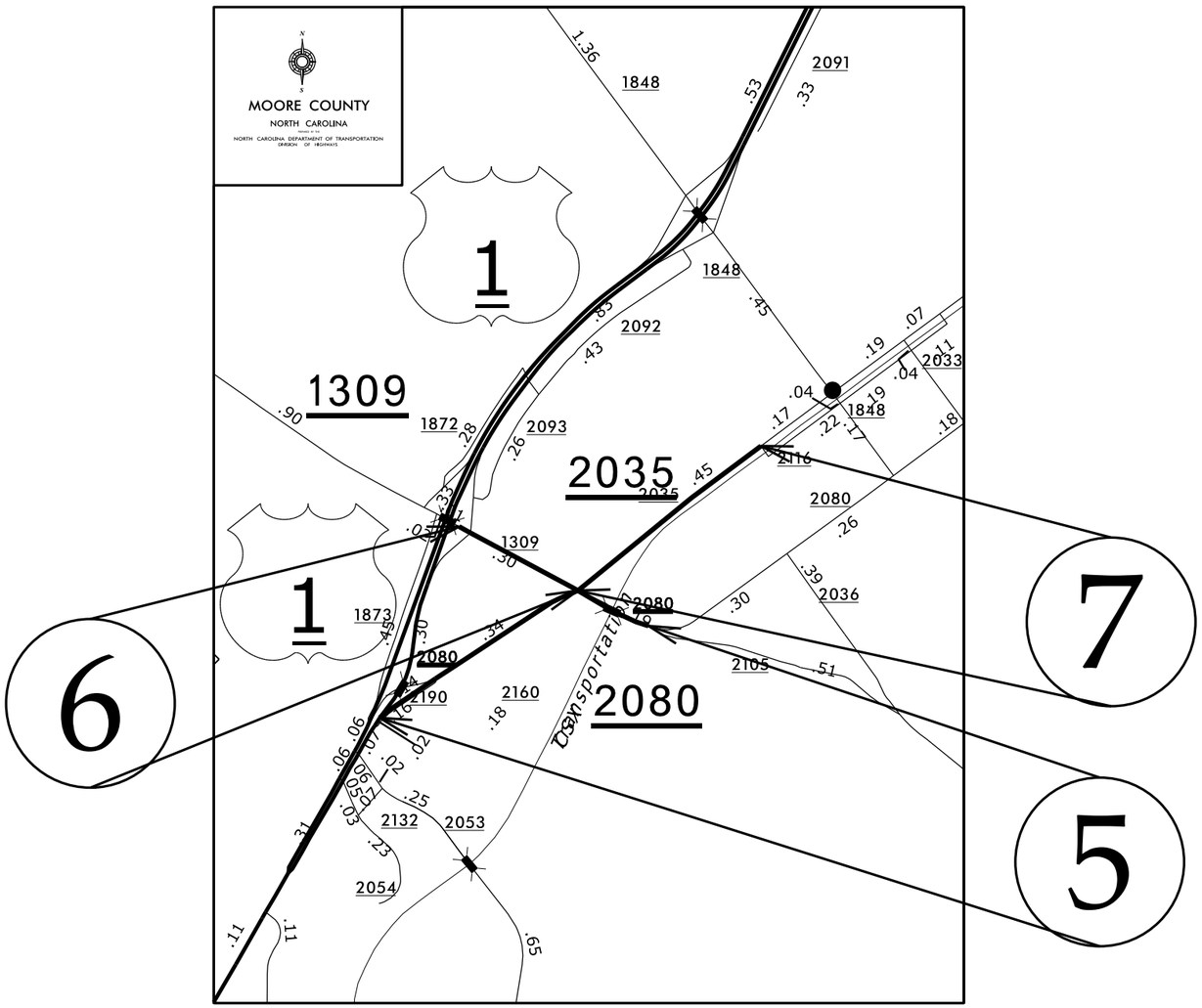
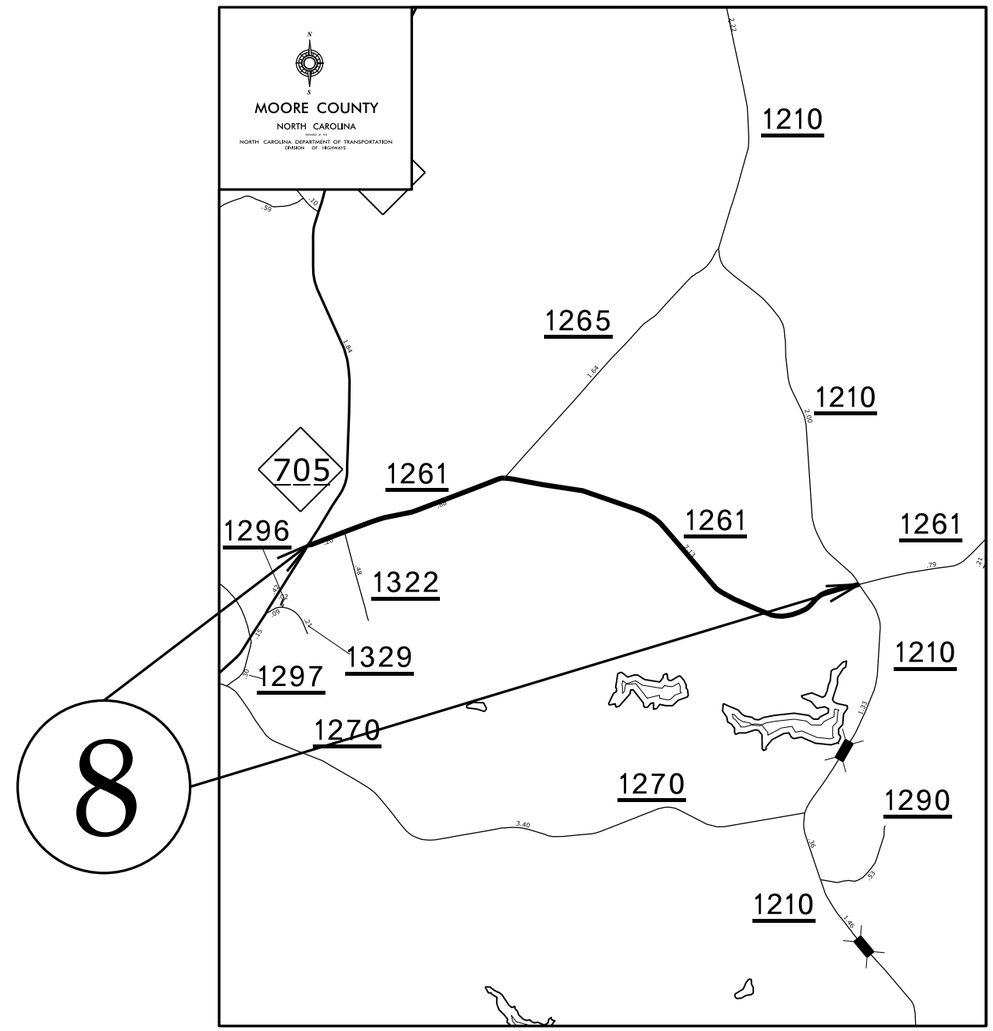
kelly AT DIVA-304605

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	5

Maps 5,6, and 7



Map 8



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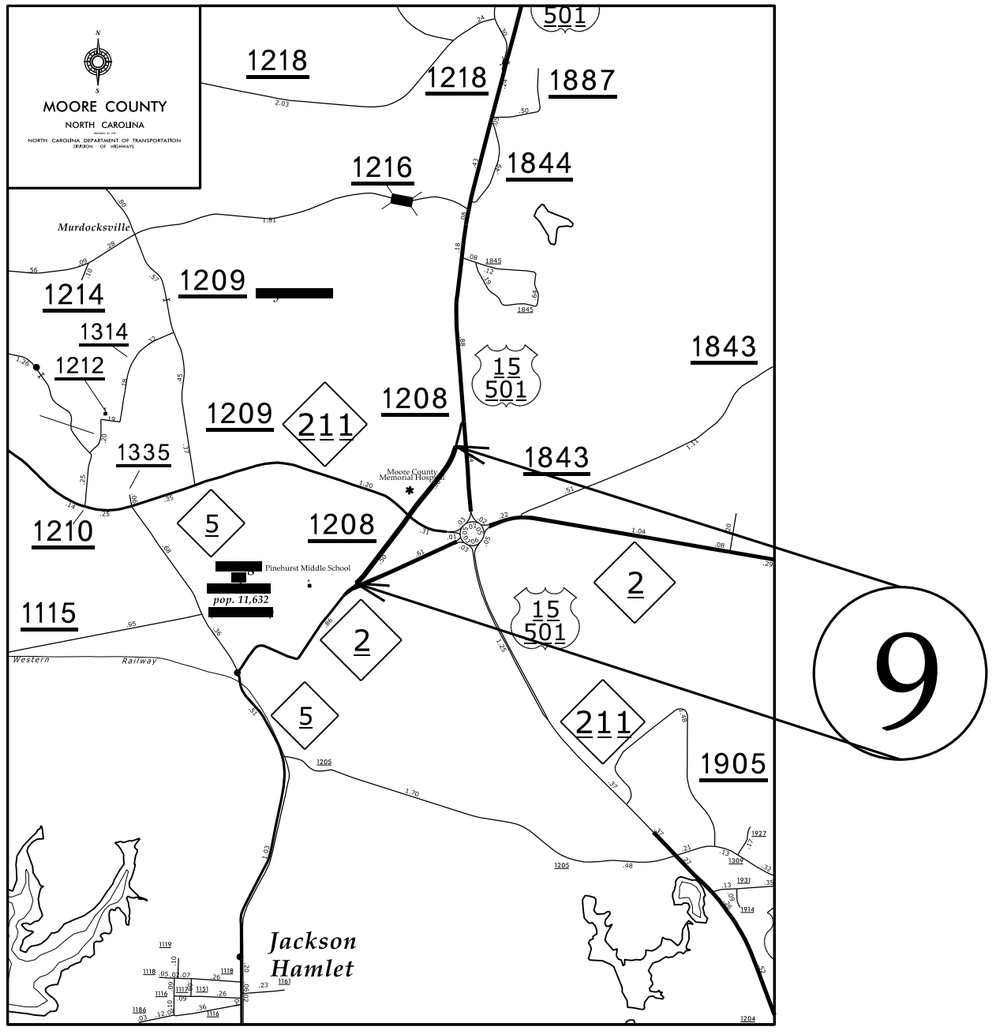
By: DIVB-300\605

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	6

Map 9



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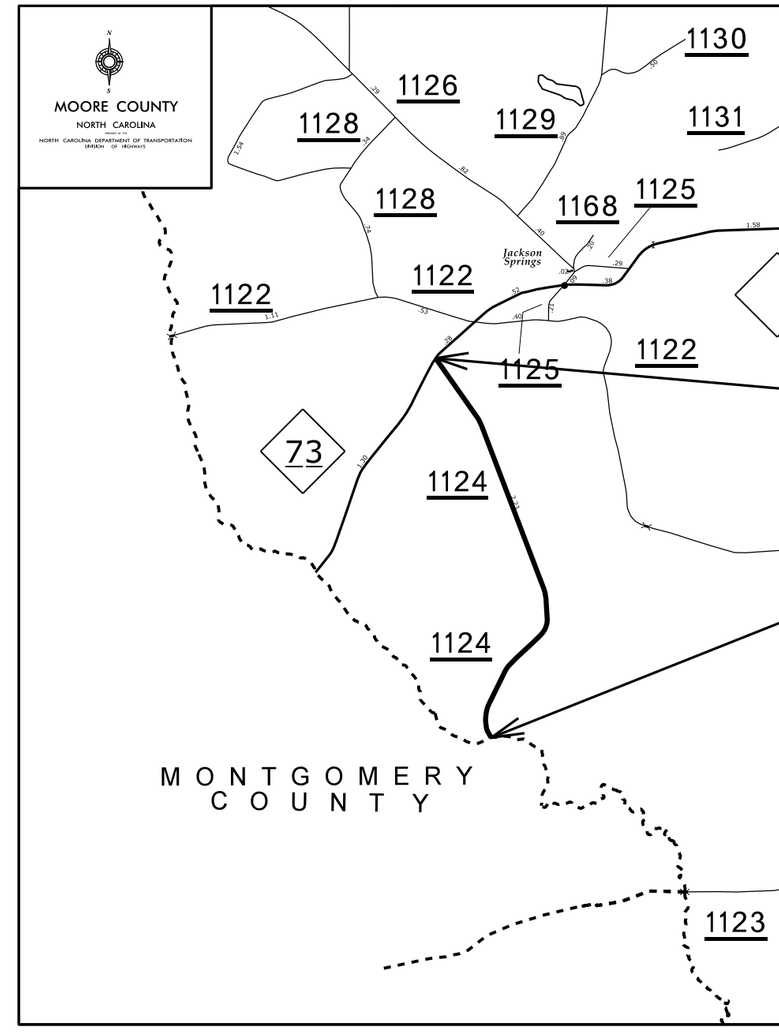
Map 10



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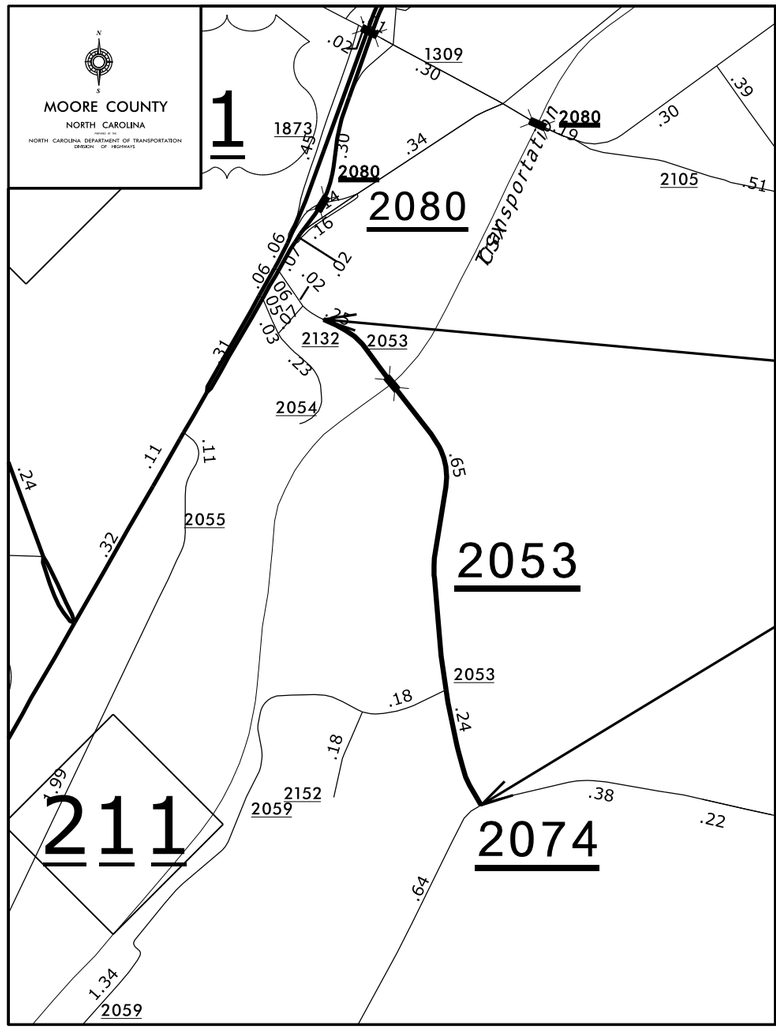
kattis AT DIVR-3036051

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	7

Map 11



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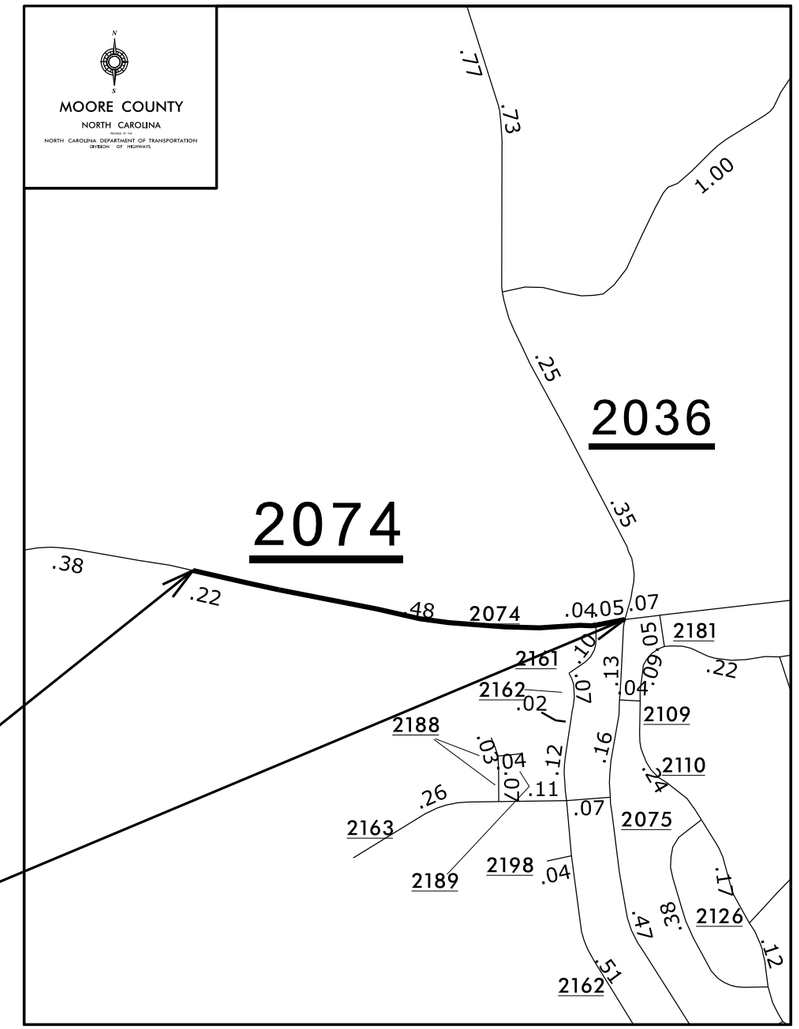
12

Map 12



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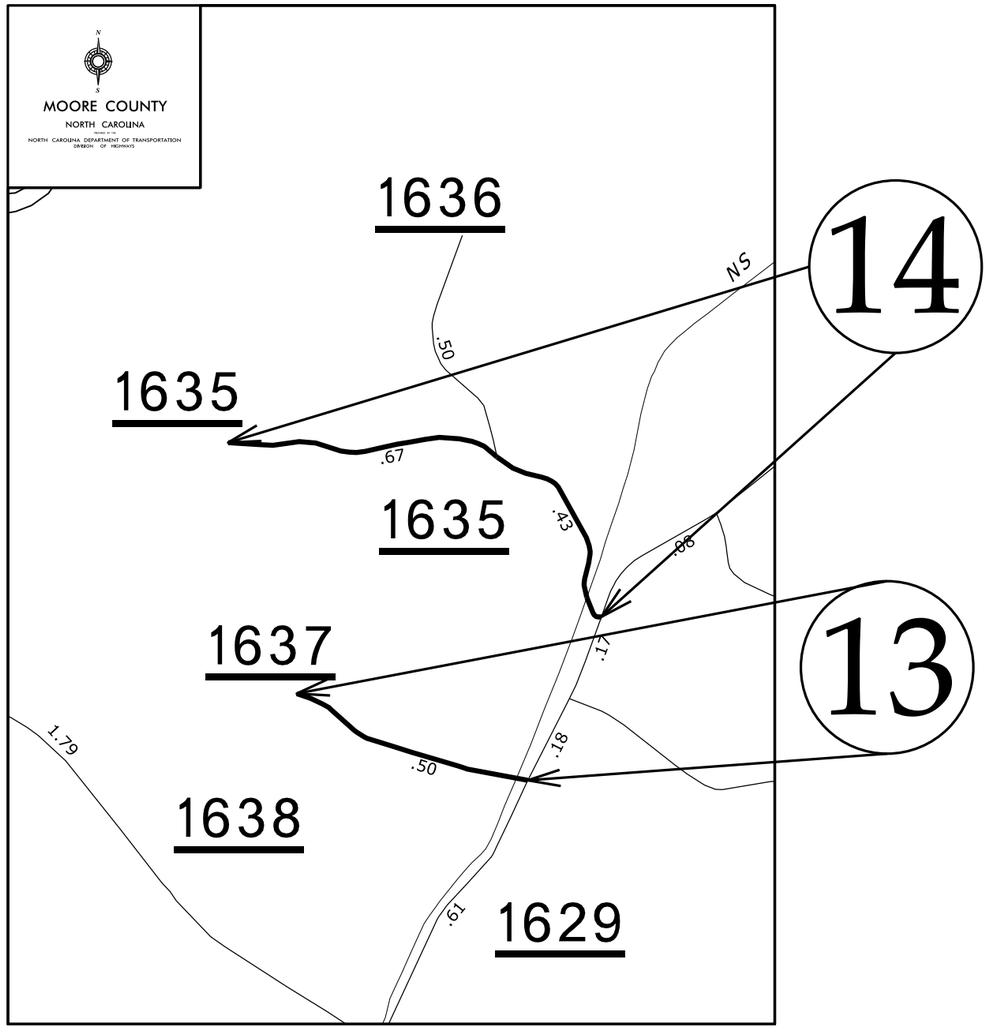
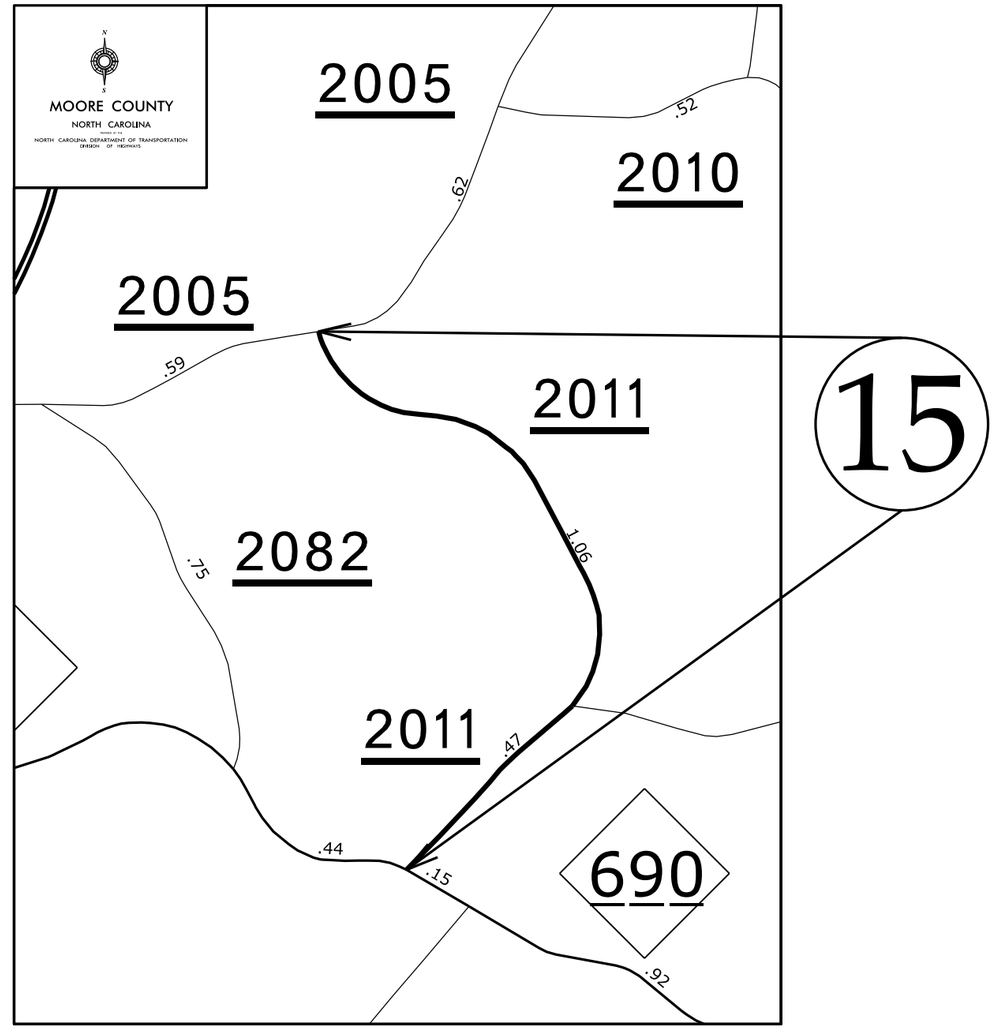
Keith A. Davis

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	8

Maps 13 and 14



Map 15



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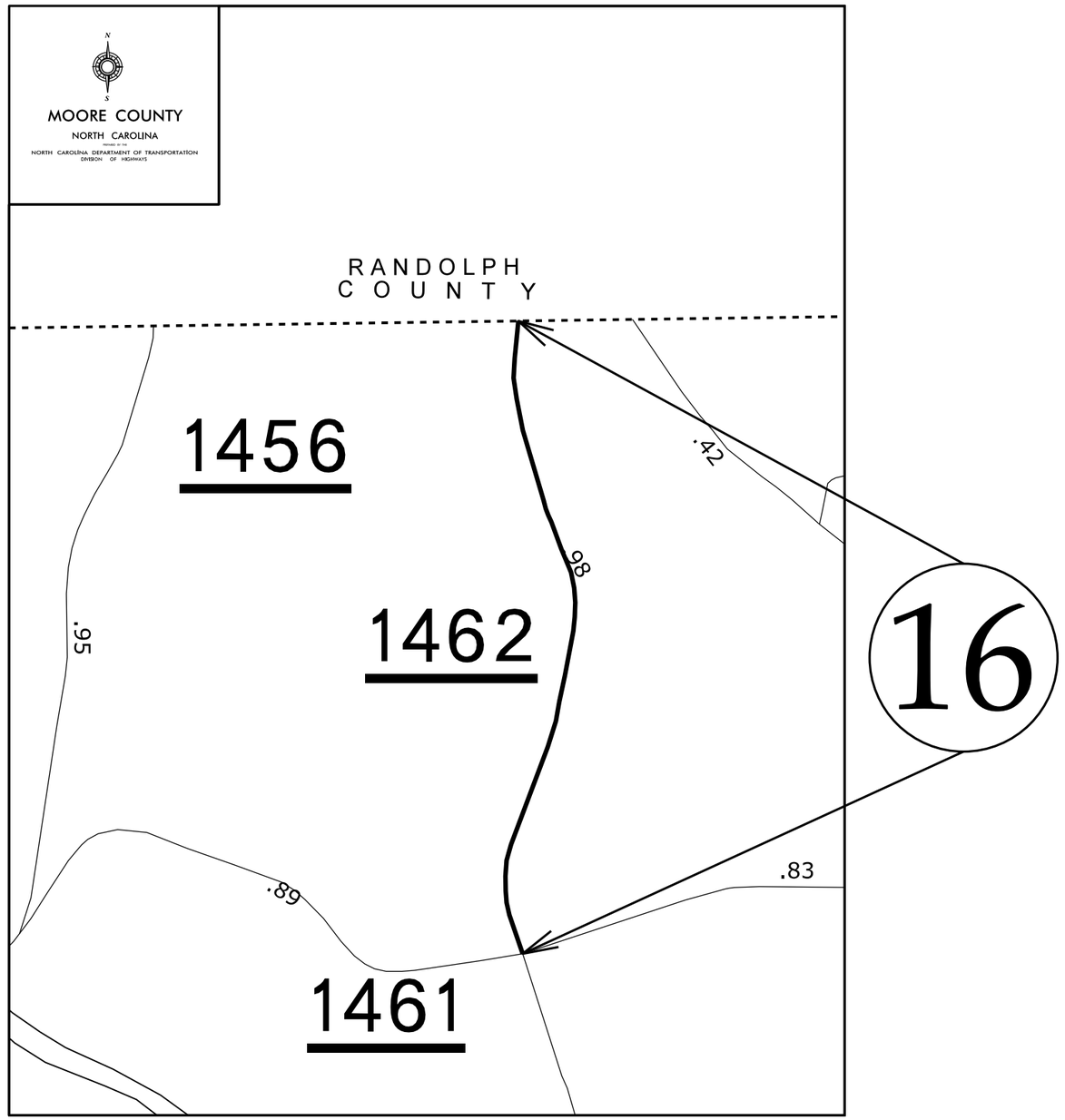
bettts at DIV8-302605

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	9

Map 16



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AT DIV8-30160

WBS ELEMENT	SHEET NO.
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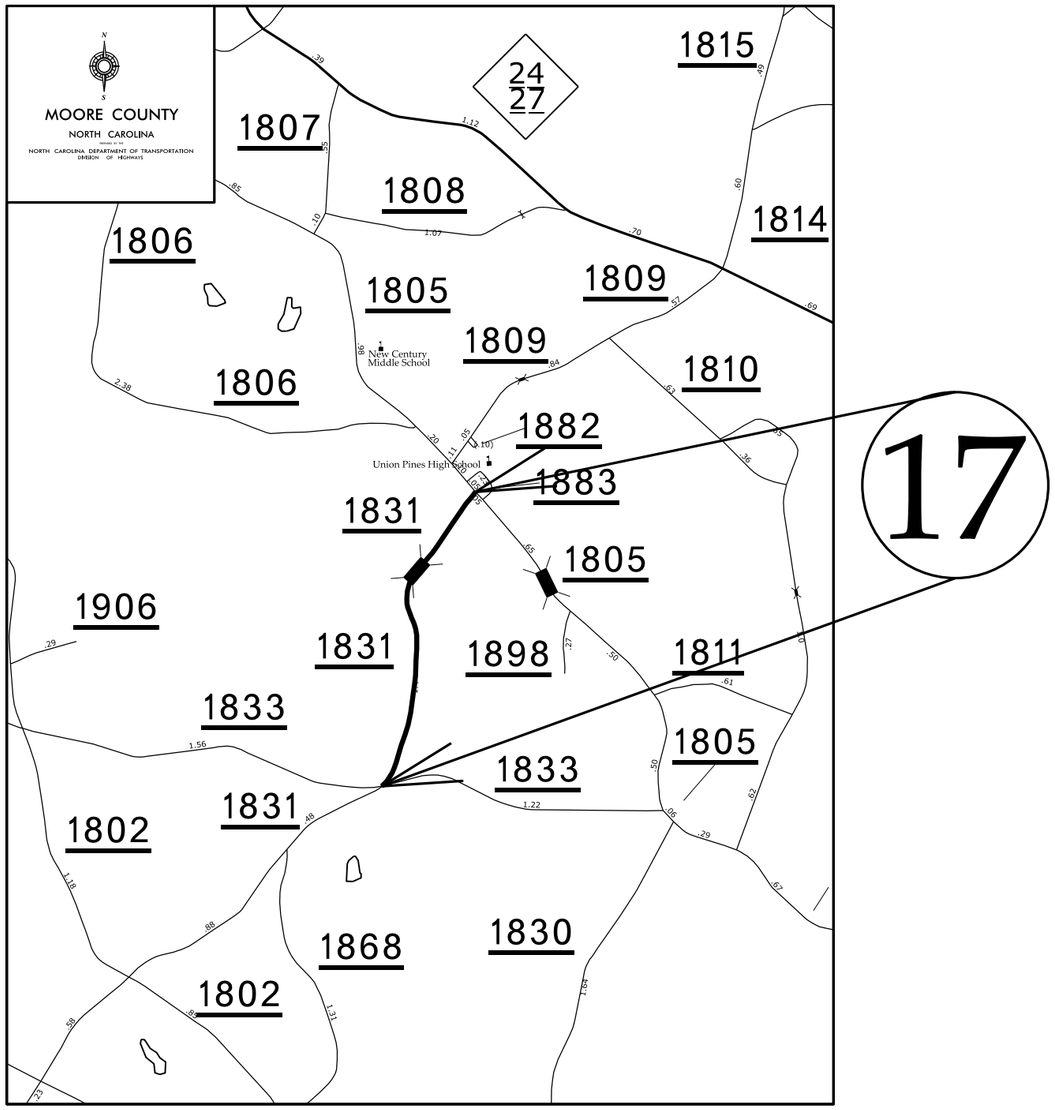
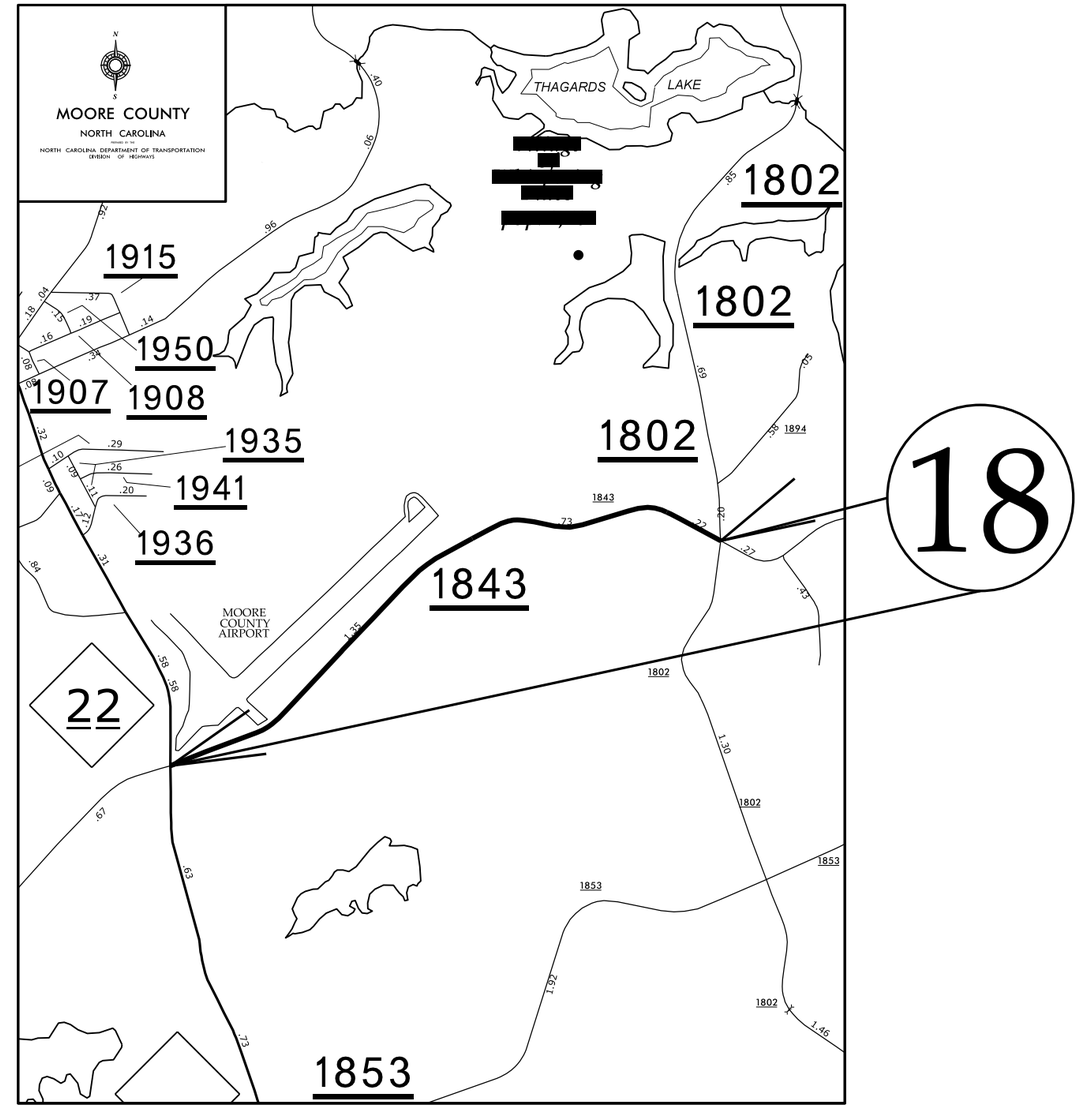
Map 17



Map 18



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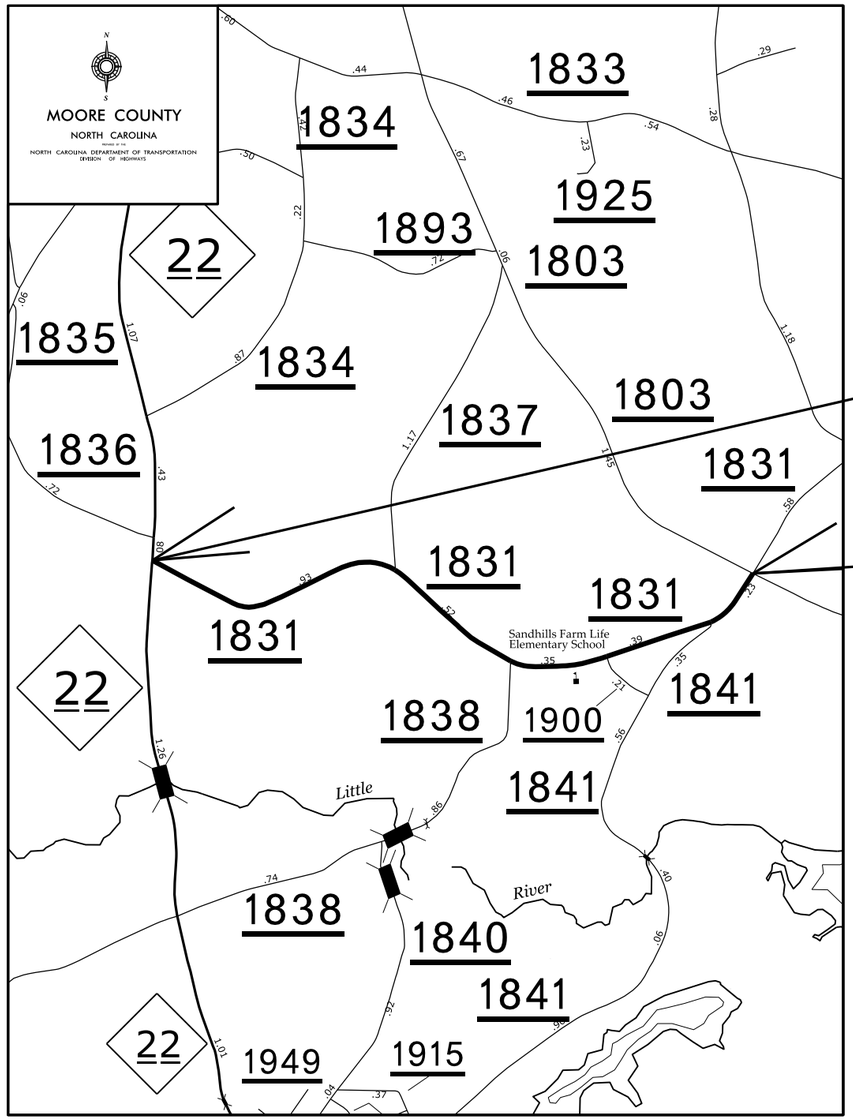
AT DIVR-3036051

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	11

Map 19



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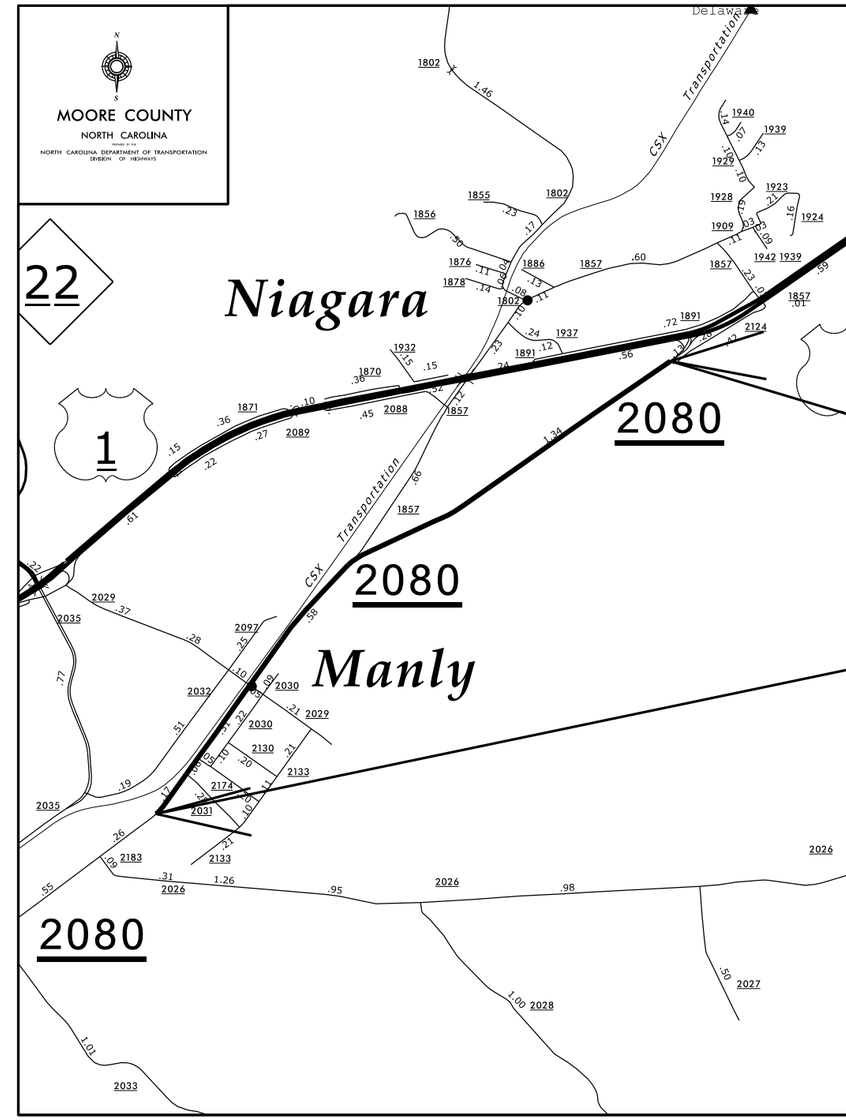
Map 20



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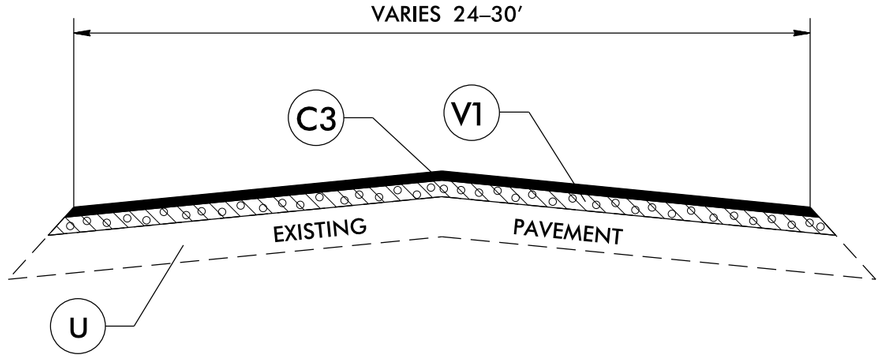
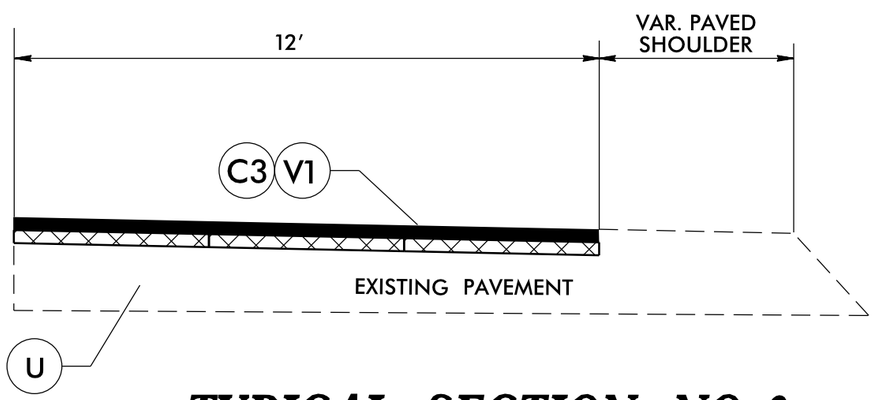
kette AT DIVA-304605



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

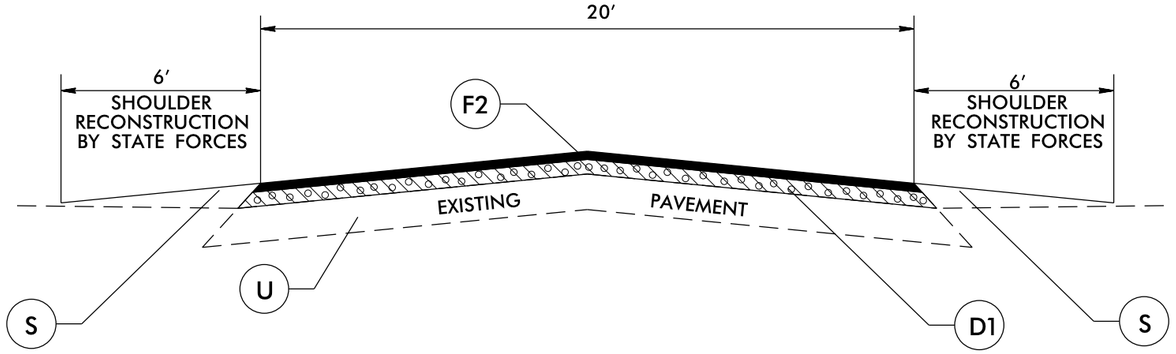
NOTE: USE ON MAP #2,
SB OUTSIDE LANE ONLY
MILLING AND RESURFACING FROM
SKIP CENTER LINE TO EDGE LINE,
DO NOT INCLUDE PAVED SHOULDER

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
F1	PROP. ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE.
F2	PROPOSED ASPHALT SURFACE TREATMENT, DOUBLE SEAL
S	AGGREGATE SHOULDER BORROW (BY STATE FORCES)
U	EXISTING PAVEMENT.
V1	MILLING 1.5″ IN DEPTH
V2	TRENCHING FOR BASE COURSE (SEE S.P.)

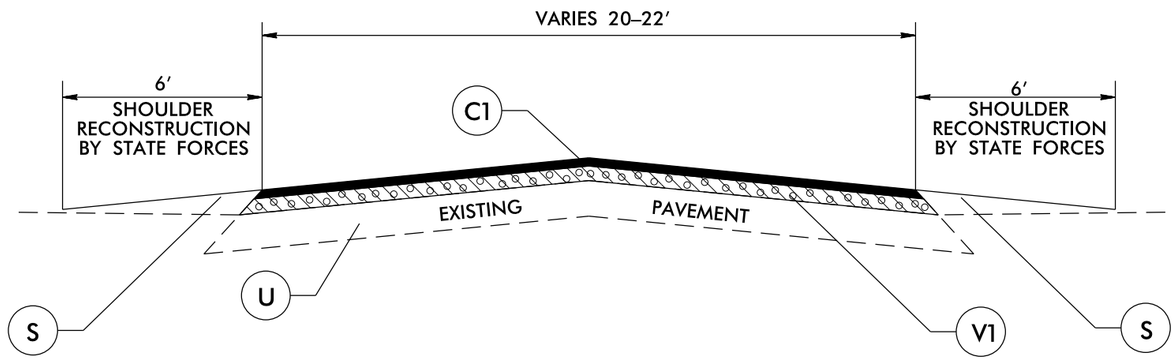
22-SEP-2021 13:29
2021-2022 Resurfacing\Moore_November-2021_Submittal\Moore_November-2021_Maps_Typ.dgn
kelts AT DIVA-304605

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	13

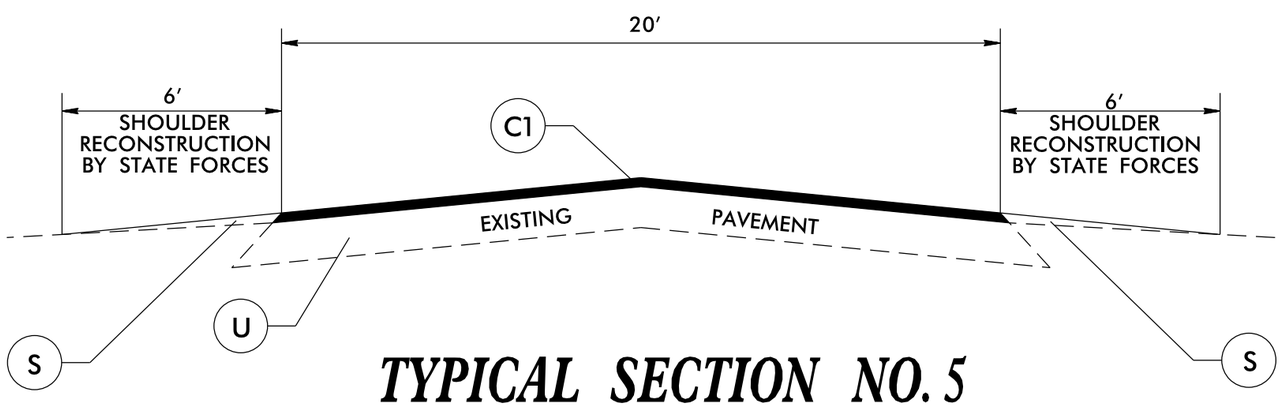


TYPICAL SECTION NO. 3

NOTE: USE TYPICAL NO. 3 FOR MAP #14 FROM PUTNAM GLENDON RD FOR 800′



TYPICAL SECTION NO. 4



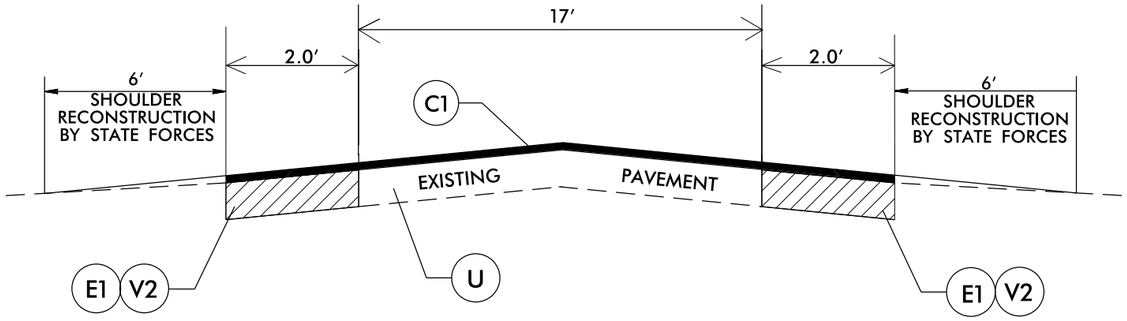
TYPICAL SECTION NO. 5

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
F1	PROP. ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE.
F2	PROPOSED ASPHALT SURFACE TREATMENT, DOUBLE SEAL
S	AGGREGATE SHOULDER BORROW (BY STATE FORCES)
U	EXISTING PAVEMENT.
V1	MILLING 1.5″ IN DEPTH
V2	TRENCHING FOR BASE COURSE (SEE S.P.)

22-SEP-2021 13:29
2021-2022 Resurfacing\Moore_November2021_Submittal\Moore_November2021_Maps_Typ.dgn
Keith A. Davis

WBS ELEMENT	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	14



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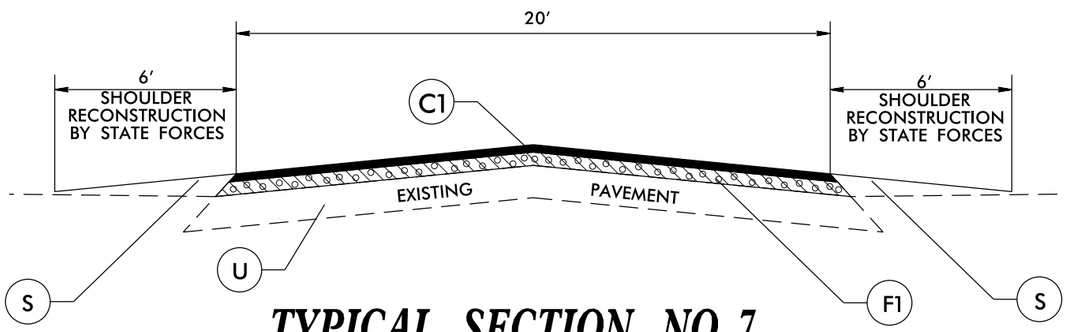
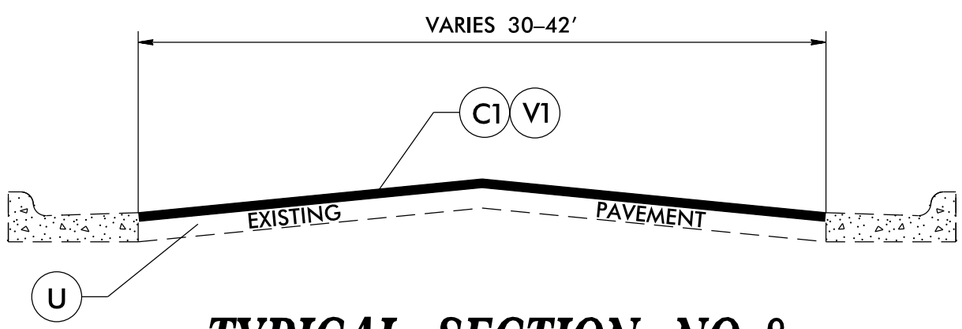


TYPICAL SECTION NO. 7

USE TYPICAL NO. 7 FOR MAP #4 FROM CITY LIMITS TO W. BALTIMORE

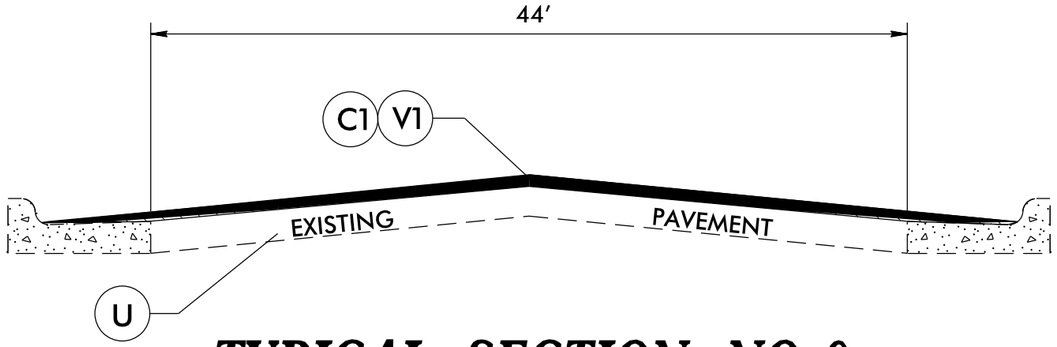


TYPICAL SECTION NO. 8

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
F1	PROP. ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE.
F2	PROPOSED ASPHALT SURFACE TREATMENT, DOUBLE SEAL
S	AGGREGATE SHOULDER BORROW (BY STATE FORCES)
U	EXISTING PAVEMENT.
V1	MILLING 1.5″ IN DEPTH
V2	TRENCHING FOR BASE COURSE (SEE S.P.)

22-SEP-2021 13:29
2021-2022 Resurfacing\Moore_November-2021_Submittal\Moore_November-2021_Maps_Typ.dgn
katts AT DIVA-3036051



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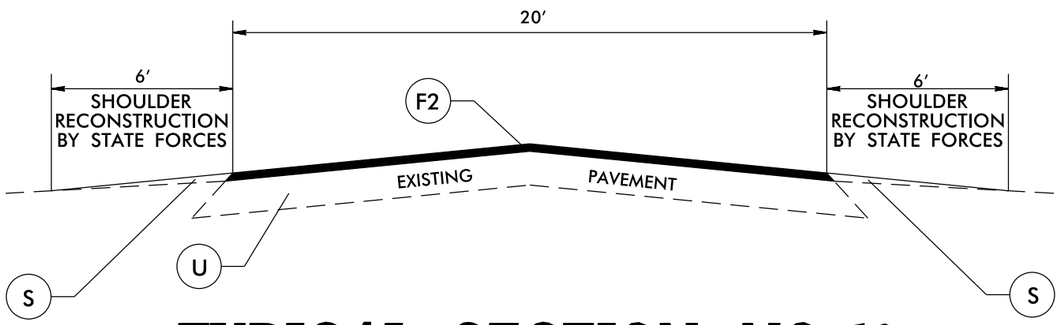

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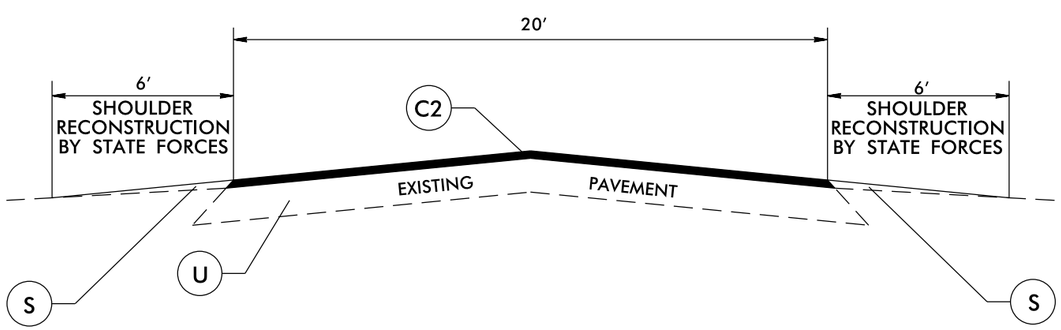


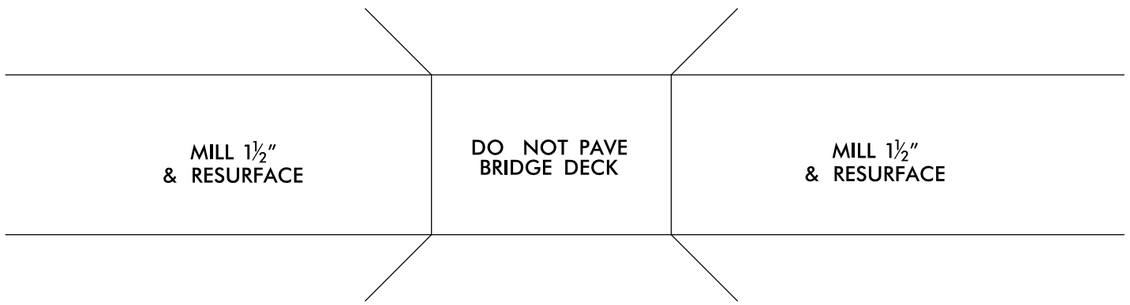
TYPICAL SECTION NO. 11

PAVEMENT SCHEDULE

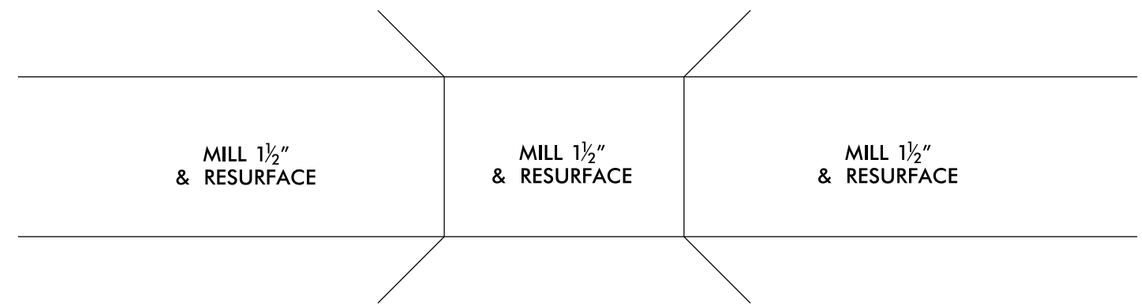
C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 220 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
F1	PROP. ASPHALT SURFACE TREATMENT, MATCOAT, #67 STONE.
F2	PROPOSED ASPHALT SURFACE TREATMENT, DOUBLE SEAL
S	AGGREGATE SHOULDER BORROW (BY STATE FORCES)
U	EXISTING PAVEMENT.
V1	MILLING 1.5″ IN DEPTH
V2	TRENCHING FOR BASE COURSE (SEE S.P.)

22-SEP-2021 13:29
2021-2022 Resurfacing\Moore_November2021_Submittal\Moore_November2021_Maps_Typ.dgn
Matts
AT DIVA 30360

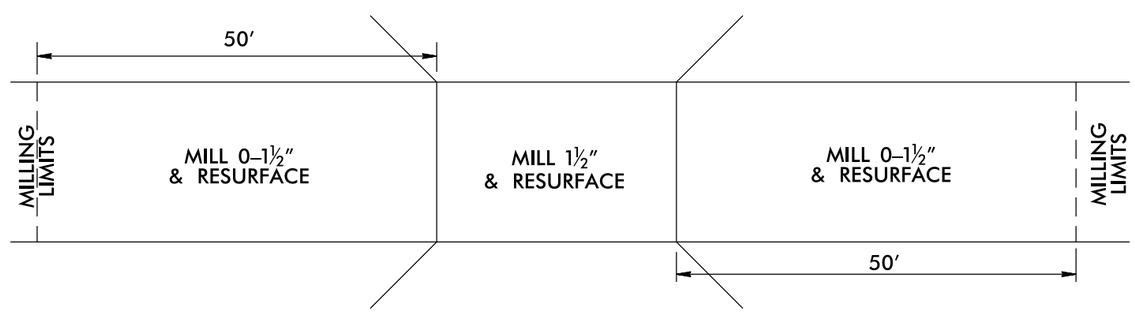
BRIDGE DETAILS



BRIDGE DRAWING TO BE USED FOR
MAP 5 SR 2080 (OLD US 1) BRIDGE #210



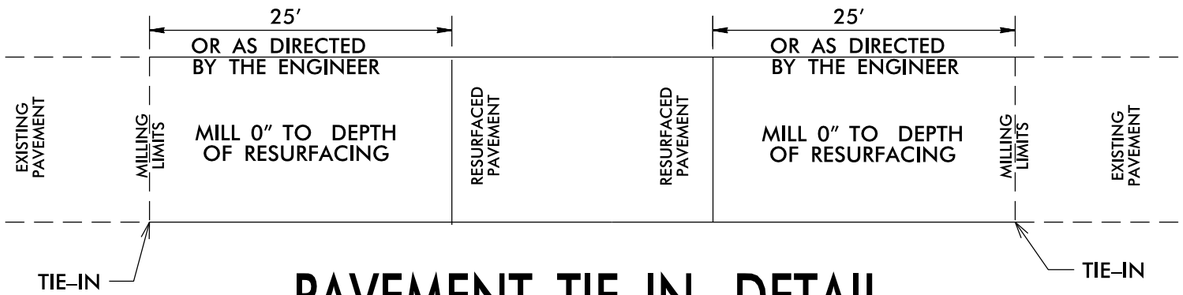
BRIDGE DRAWING TO BE USED FOR
MAP 11 SAUNDERS BLVD BRIDGE #187



BRIDGE DRAWING TO BE USED FOR
MAP 17 FARM LIFE SCHOOL RD BRIDGE #131
* MILLING FOR APPROACHES SHALL BE PAID FOR UNDER INCIDENTAL MILLING

17-SEP-2021 11:24
2021-2022 Resurf
kette
\Moore_November-2021\Submittal\Moore_November-2021_Maps_Typ.dgn

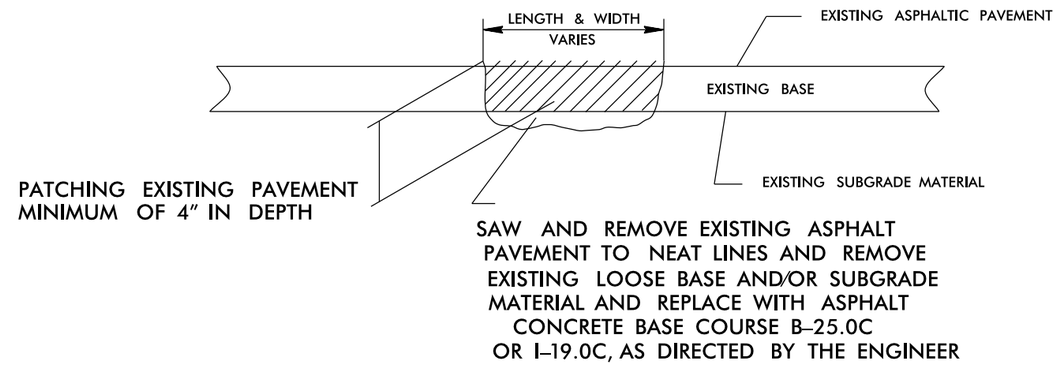
DETAILS AND NOTES



PAVEMENT TIE–IN DETAIL

** MILLING TO BE PAID FOR AS INCIDENTAL MILLING

DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING



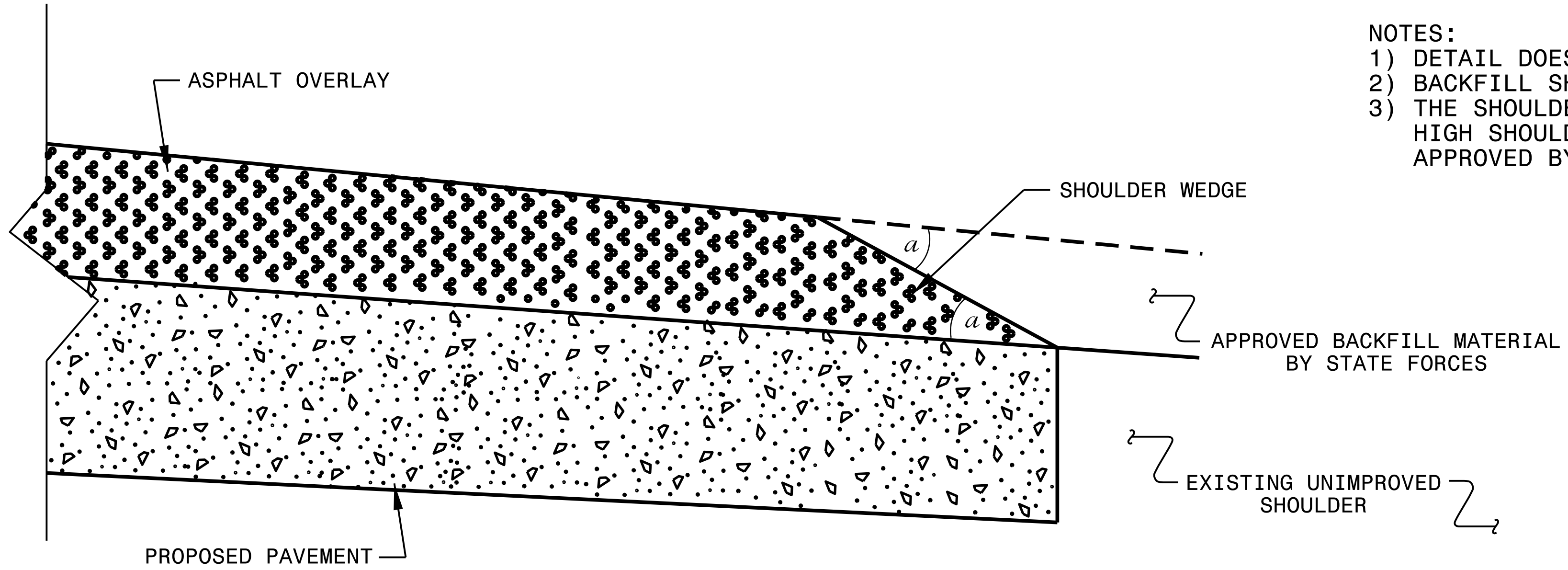
PROJECT NOTES

- STATE FORCES WILL BE HANDLING ALL SHOULDER WORK EXCEPT INCIDENTAL STONE AS DIRECTED BY THE ENGINEER.
- FINAL PAVEMENT MARKINGS TO BE HANDLED BY STATE FORCES ON MAPS 3, 8, 10, 12–17, 19, AND 20.
- PAINT AND LINE REMOVAL QUANTITIES INCLUDED ON MAP NO. 5 FOR BRIDGE DECK.
- TEMPORARY PAINT QUANTITIES INCLUDED FOR MAPS 1, 2, 5, 6, 7, 9, 11, 12, 18, AND 20 WITH MILLING.
- MAPS WITH MILLING SHOULD BE PATCHED AFTER MILLING HAS BEEN COMPLETED.

22-SEP-2021 15:39
2021-2022 Resurfacing\Moore_November-2021_Submittal\Moore_November-2021_Maps_Typ.dgn
kelts AT DIVA-304605

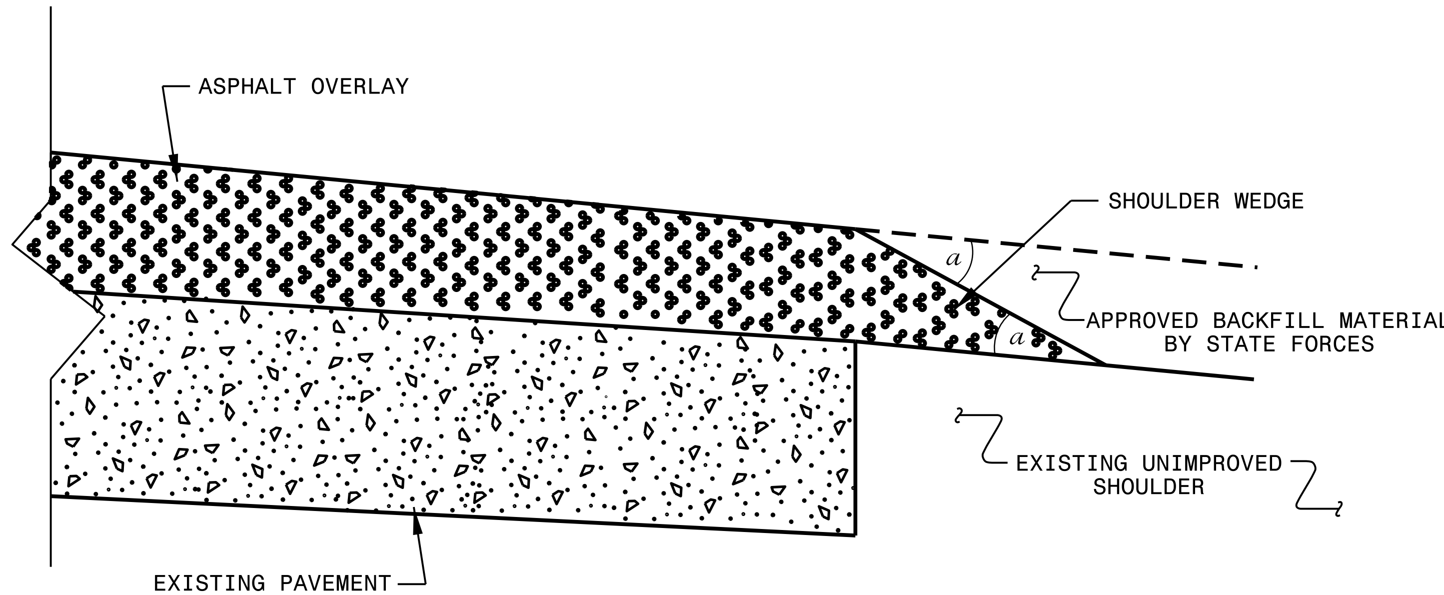
PROJECT REFERENCE NO.	SHEET NO.
2022CPT.08.11.10631 2022CPT.08.11.20631	18

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.



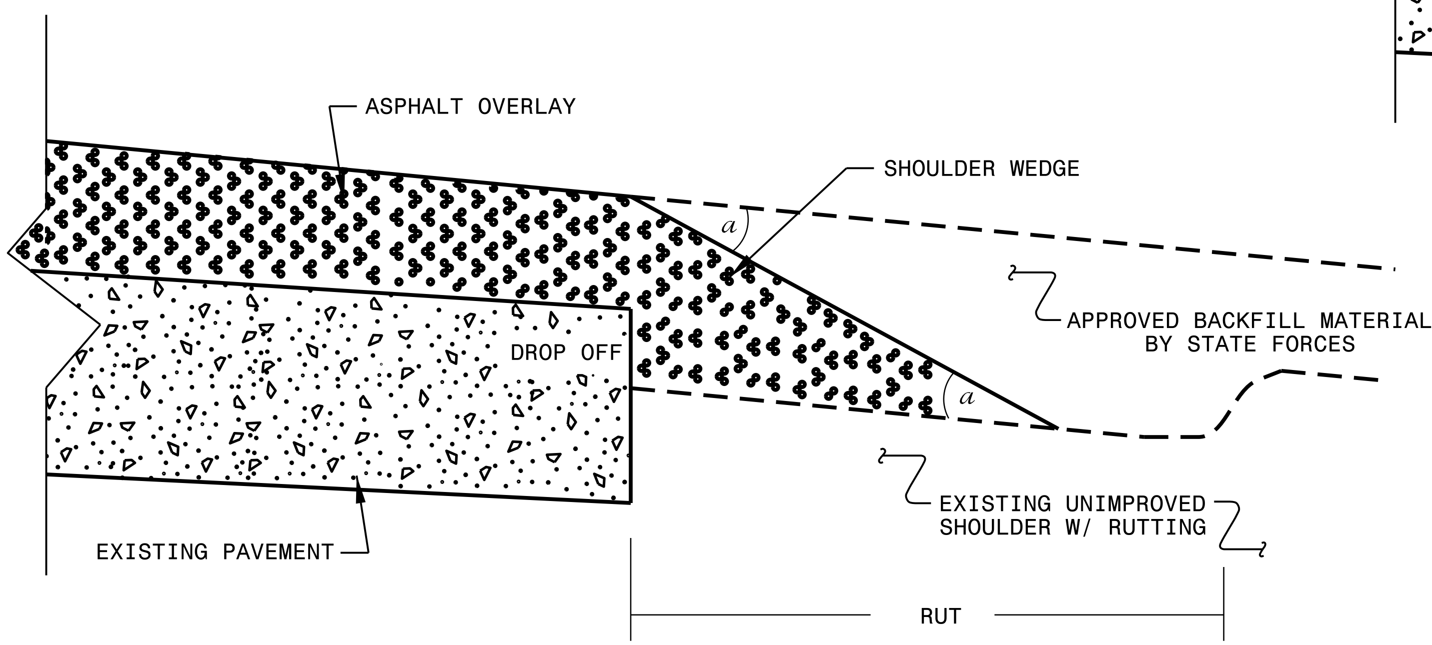
SHOULDER WEDGE DETAIL

(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: 10/16/12
CHECKED BY: DATE:
FILE SPEC.: s:usr/details/stand/shoulderwedgedetail.dgn

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.08.11.10631, 2022CPT.08.11.20631	19	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1220000000-E INCIDENTAL STONE BASE	1297000000-E 1.5" MILLING	1330000000-E INCIDENTAL MILLING	1491000000-E BASE COURSE, B25.0C	1503000000-E INTERMEDIATE COURSE, I19.0C	1519000000-E SURFACE COURSE, S9.5B	1523000000-E SURFACE COURSE, S9.5C	1575000000-E ASPHALT BINDER FOR PLANT MIX	1704000000-E PATCHING EXISTING PAVEMENT	1775500000-E ASPHALT SURFACE TREATMENT, MATCOAT, #67*** STONE	1803500000-E ASPHALT SURFACE TREATMENT, DOUBLE SEAL	1838000000-E EMULSION FOR ASPHALT SURFACE TREATMENT	1838500000-N VACUUM TRUCK	2143000000-E BLOTTING SAND	2815000000-N ADJUST DROP INLET	2830000000-N ADJUST MANHOLES	2845000000-N ADJUST METER OR VALVE BOX	5255000000-N PORTABLE LIGHTING	7444000000-E INDUCTIVE LOOP SAWCUT	7456000000-E LEAD-IN CABLE (14-2 PAIR)
										MI	FT	TONS	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	SY	SY	GAL	WK	TON	EA	EA	EA	LS	LF	LF
2022CPT.08.11.10631	Moore	1	NC 24/27	FROM US 15-501 TO PVMNT JT 880' PAST SR 1814 (GRADY RD)	1	2	2WU	NO	NO	2.68	28		48,372	1,200				4,469	268												
TOTAL FOR MAP NO. 1										**2.68**			**48,372**	**1,200**				**4,469**	**268**												
2022CPT.08.11.10631	Moore	2	US 15-501	SB OUTSIDE LANE 1245' PRIOR TO BRUCEWOOD RD INTERSECTION	2	2	MU	NO	NO	0.24	12		1,690					140	8										1		
TOTAL FOR MAP NO. 2										**0.24**			**1,690**					**140**	**8**										**1**		
TOTAL FOR PROJ NO. 2022CPT.08.11.10631										**2.92**			**50,062**	**1,200**				**4,609**	**276**										**1**		
2022CPT.08.11.20631	Moore	3	SR 1229 (CARTHAGE RD)	FROM SR 1227 (KANOY RD) TO SR 1240 (DOWD RD)	5	2	2WU	NO	NO	3.19	20	100					3,226		216	200											
TOTAL FOR MAP NO. 3										**3.19**		**100**					**3,226**		**216**	**200**											
2022CPT.08.11.20631	Moore	4	SR 1103 (SAND PIT RD)	FROM NC 5 TO SR 1103 (W BALTIMORE AVE)	5,7	2	2WU	NO	NO	2.52	20	100		200			2,695		181	25	6,586.00		2,634	0.50	10					600	600
TOTAL FOR MAP NO. 4										**2.52**		**100**		**200**			**2,695**		**181**	**25**	**6,586.00**		**2,634**	**0.50**	**10**					**600**	**600**
2022CPT.08.11.20631	Moore	5	SR 2080 (OLD US 1)	US 1 TO SR 2080 (S MAY ST)	4,8	2	MU	NO	NO	0.51	42		12,566	300			1,140		76							1	6	8		1,800	1,800
TOTAL FOR MAP NO. 5										**0.51**			**12,566**	**300**			**1,140**		**76**							**1**	**6**	**8**		**1,800**	**1,800**
2022CPT.08.11.20631	Moore	6	SR 1309 (W MORGANTON RD)	FROM PVMNT JT 747' FROM US 1 TO SR 2035 (SW BROAD ST)	8	2	MU	NO	NO	0.153	37		3,321	300			300		20								3	2		2,100	2,100
TOTAL FOR MAP NO. 6										**0.153**			**3,321**	**300**			**300**		**20**								**3**	**2**		**2,100**	**2,100**
2022CPT.08.11.20631	Moore	7	SR 2035 (SW BROAD ST)	FROM SR 1309 (W MORGANTON RD) TO (W MASSACHUSETTS ST)	9	2	2WU	NO	NO	0.478	44		12,339	600			1,122		75								10	9		1,200	1,200
TOTAL FOR MAP NO. 7										**0.478**			**12,339**	**600**			**1,122**		**75**								**10**	**9**		**1,200**	**1,200**
2022CPT.08.11.20631	Moore	8	SR 1261 (OLD CARTHAGE RD)	FROM NC 705 TO SR 1210 (MT CARMEL RD)	5	2	2WU	NO	NO	3.21	20	100					3,418		229	200											
TOTAL FOR MAP NO. 8										**3.21**		**100**					**3,418**		**229**	**200**											
2022CPT.08.11.20631	Moore	9	SR 1208 (PAGE RD)	FROM NC 2 TO LIMITS OF PROJECT SM-5708D (660' FROM US 15-501)	4,8	2	2WU	NO	NO	0.828	30		14,495	400			1,313		88								2	1		600	600
TOTAL FOR MAP NO. 9										**0.828**			**14,495**	**400**			**1,313**		**88**								**2**	**1**		**600**	**600**
2022CPT.08.11.20631	Moore	10	SR 1124 (DERBY RD)	FROM MONTGOMERY CO. LINE TO NC 73	6	2	2WU	NO	NO	2.225	17				1,190		2,029		189	75											
TOTAL FOR MAP NO. 10										**2.225**					**1,190**		**2,029**		**189**	**75**											
2022CPT.08.11.20631	Moore	11	SR 2053 (SAUNDERS BLVD)	FROM PVMNT JT 0.16 MI FROM US 1 TO SR 2074 (BETHESDA RD)	4	2	2WU	NO	NO	1.05	22	100	13,552	600			1,237		83								2	3			
TOTAL FOR MAP NO. 11										**1.05**		**100**	**13,552**	**600**			**1,237**		**83**								**2**	**3**			
2022CPT.08.11.20631	Moore	12	SR 2074 (FORT BRAGG RD)	FROM PVMNT JT 85' E OF SR 2075 (E INDIANA AVE) TO (S BETHESDA RD) INCLUDE INTERSECTION OF E INDIANA	4	2	2WU	NO	NO	0.81	20	100	9,504	300			907		61	85											
TOTAL FOR MAP NO. 12										**0.81**		**100**	**9,504**	**300**			**907**		**61**	**85**											
2022CPT.08.11.20631	Moore	13	SR 1637 (SPIVEY RD)	FROM SR 1629 (PUTNAM GLENDON RD) TO DEAD END	11	2	2WU	NO	NO	0.72	20			200			937		63	75											
TOTAL FOR MAP NO. 13										**0.72**				**200**			**937**		**63**	**75**											
2022CPT.08.11.20631	Moore	14	SR 1635 (HERBIE RD)	FROM SR 1629 (PUTNAM GLENDON RD) TO DEAD END	3,10	2	2WU	NO	NO	1.179	20					253			12	100		13,833.00	7,608	0.50	10						
TOTAL FOR MAP NO. 14										**1.179**						**253**			**12**	**100**		**13,833.00**	**7,608**	**0.50**	**10**						
2022CPT.08.11.20631	Moore	15	SR 2011 (BYRD RD)	FROM NC 690 TO SR 2005 (CYPRESS CH RD)	5	2	2WU	NO	NO	1.52	20	100					1,629		109	145											
TOTAL FOR MAP NO. 15										**1.52**		**100**					**1,629**		**109**	**145**											
2022CPT.08.11.20631	Moore	16	SR 1462 (CAVINESS TOWN RD)	FROM RANDOLPH CO. LINE TO SR 1461 (GEORGE P RD)	5	2	2WU	NO	NO	0.97	20						1,034		69	100											
TOTAL FOR MAP NO. 16										**0.97**							**1,034**		**69**	**100**											
2022CPT.08.11.20631	Moore	17	SR 1831 (FARM LIFE SCHOOL RD)	FROM SR 1805 (UNION CH RD) TO SR 1833 (JOEL RD)	5	2	2WU	NO	NO	1.32	24		219	292			1,686		113												
TOTAL FOR MAP NO. 17										**1.32**			**219**	**292**			**1,686**		**113**												
2022CPT.08.11.20631	Moore	18	SR 1843 (AIRPORT RD)	FROM SR 1802 (NIAGARA CARTHAGE RD) TO BEGIN MONOLITHIC ISLANDS AT TRAFFIC CIRCLE	4	2	2WU	NO	NO	2.4	22		30,976	400			2,861		192												
TOTAL FOR MAP NO. 18										**2.4**			**30,976**	**400**			**2,861**		**192**												
2022CPT.08.11.20631	Moore	19	SR 1831 (FARM LIFE SCHOOL RD)	FROM SR 1803 (VASS CARTHAGE RD) TO NC 22	5	2	2WU	NO	NO	2.4	22						2,861		192												
TOTAL FOR MAP NO. 19										**2.4**							**2,861**		**192**												
2022CPT.08.11.20631	Moore	20	SR 2080 (N MAY ST)	FROM CITY LIMITS TO PVMNT JT N OF EQUESTRIAN RD NEAR US 1	4	2	2WU	NO	NO	2.49	21		30,677	1,000			2,834		190												
TOTAL FOR MAP NO. 20										**2.49**			**30,677**	**1,000**			**2,834**		**190**												
TOTAL FOR PROJ NO. 2022CPT.08.11.20631										**27.973**		**600**	**127,649**	**4,592**	**1,190**	**253**	**31,229**		**2,158**	**1,005**	**6,586.00**	**13,833.00**	**10,242**	**1.00**	**20**	**1**	**23**	**23**		**6,300**	**6,300**
GRAND TOTAL										**30.893**		**600**	**177,711**	**5,792**	**1,190**	**253**	**31,229**	**4,609**	**2,434**	**1,005**	**6,586.00**	**13,833.00**	**10,242**	**1.00**	**20**	**1**	**23**	**23**	**1**	**6,300**	**6,300**

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.08.11.10631, 2022CPT.08.11.20631	20	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING	4457000000-N TEMPORARY TRAFFIC CONTROL	4510000000-N LAW ENFORCEMENT	4685000000-E 4" X 90 M WHITE THERMO	4685000000-E 4" X 90 M YELLOW THERMO	4695000000-E 8" X 90 M YELLOW THERMO	4700000000-E 12" X 90 M YELLOW THERMO	4720000000-E THERMO MSG STOP 90 M	4720000000-E THERMO MSG AHEAD 90 M	4720000000-E THERMO MSG ONLY 90 M	4725000000-E THERMO LT ARROW 90 M	4725000000-E THERMO STR & RT ARROW 90 M	4725000000-E THERMO STR & LT ARROW 90 M	4725000000-E THERMO RT ARROW 90 M	4725000000-E THERMO STR ARROW 90 M	4726110000-E THERMO BICYCLE SYMBOL 90 M
								MI	FT	SF	LS	HR	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
2022CPT.08.11.10631	Moore	1	NC 24/27	FROM US 15-501 TO PVMNT JT 880' PAST SR 1814 (GRADY RD)	1	2	2WU	2.68	28	210			28,837	24,563		380				4	4	1	1		
TOTAL FOR MAP NO. 1								**2.68**		**210**	*		**28,837**	**24,563**		**380**				**4**	**4**	**1**	**1**		
2022CPT.08.11.10631	Moore	2	US 15-501	SB OUTSIDE LANE 1245' PRIOR TO BRUCEWOOD RD INTERSECTION	2	2	MU	0.24	12			8	1,556											1	
TOTAL FOR MAP NO. 2								**0.24**				**8**	**1,556**											**1**	
TOTAL FOR PROJ NO. 2022CPT.08.11.10631								**2.92**		**210**	*	**8**	**30,393**	**24,563**		**380**				**4**	**4**	**1**	**1**	**1**	
													54,956							**11**					
2022CPT.08.11.20631	Moore	3	SR 1229 (CARTHAGE RD)	FROM SR 1227 (KANOY RD) TO SR 1240 (DOWD RD)	5	2	2WU	3.19	20	357															
TOTAL FOR MAP NO. 3								**3.19**		**357**															
2022CPT.08.11.20631	Moore	4	SR 1103 (SAND PIT RD)	FROM NC 5 TO SR 1103 (W BALTIMORE AVE)	5,7	2	2WU	2.52	20	282			27,115	16,632	93		8	10		4			2	2	
TOTAL FOR MAP NO. 4								**2.52**		**282**			**27,115**	**16,632**	**93**		**8**	**10**		**4**			**2**	**2**	
2022CPT.08.11.20631	Moore	5	SR 2080 (OLD US 1)	US 1 TO SR 2080 (S MAY ST)	4,8	2	MU	0.51	42	126		40	5,488	6,728	188					16	2		4	2	
TOTAL FOR MAP NO. 5								**0.51**		**126**		**40**	**5,488**	**6,728**	**188**					**16**	**2**		**4**	**2**	
2022CPT.08.11.20631	Moore	6	SR 1309 (W MORGANTON RD)	FROM PVMNT JT 747' FROM US 1 TO SR 2035 (SW BROAD ST)	8	2	MU	0.153	37	126			1,646	1,942	144					5	6				
TOTAL FOR MAP NO. 6								**0.153**		**126**			**1,646**	**1,942**	**144**					**5**	**6**				
2022CPT.08.11.20631	Moore	7	SR 2035 (SW BROAD ST)	FROM SR 1309 (W MORGANTON RD) TO (W MASSACHUSETTS ST)	9	2	2WU	0.478	44	54			7,144	5,548					8	14	2		4		6
TOTAL FOR MAP NO. 7								**0.478**		**54**			**7,144**	**5,548**					**8**	**14**	**2**		**4**		**6**
2022CPT.08.11.20631	Moore	8	SR 1261 (OLD CARTHAGE RD)	FROM NC 705 TO SR 1210 (MT CARMEL RD)	5	2	2WU	3.21	20	359															
TOTAL FOR MAP NO. 8								**3.21**		**359**															
2022CPT.08.11.20631	Moore	9	SR 1208 (PAGE RD)	FROM NC 2 TO LIMITS OF PROJECT SM-5708D (660' FROM US 15-501)	4,8	2	2WU	0.828	30	197		40	5,041	7,885	300					7	1		2	1	
TOTAL FOR MAP NO. 9								**0.828**		**197**		**40**	**5,041**	**7,885**	**300**					**7**	**1**		**2**	**1**	
2022CPT.08.11.20631	Moore	10	SR 1124 (DERBY RD)	FROM MONTGOMERY CO. LINE TO NC 73	6	2	2WU	2.225	17	248															
TOTAL FOR MAP NO. 10								**2.225**		**248**															
2022CPT.08.11.20631	Moore	11	SR 2053 (SAUNDERS BLVD)	FROM PVMNT JT 0.16 MI FROM US 1 TO SR 2074 (BETHESDA RD)	4	2	2WU	1.05	22	117			11,298	6,930											
TOTAL FOR MAP NO. 11								**1.05**		**117**			**11,298**	**6,930**											
2022CPT.08.11.20631	Moore	12	SR 2074 (FORT BRAGG RD)	FROM PVMNT JT 85' E OF SR 2075 (E INDIANA AVE) TO (S BETHESDA RD) INCLUDE INTERSECTION OF E INDIANA	4	2	2WU	0.81	20	90	*														
TOTAL FOR MAP NO. 12								**0.81**		**90**															
2022CPT.08.11.20631	Moore	13	SR 1637 (SPIVEY RD)	FROM SR 1629 (PUTNAM GLENDON RD) TO DEAD END	11	2	2WU	0.72	20	80															
TOTAL FOR MAP NO. 13								**0.72**		**80**															
2022CPT.08.11.20631	Moore	14	SR 1635 (HERBIE RD)	FROM SR 1629 (PUTNAM GLENDON RD) TO DEAD END	3,10	2	2WU	1.179	20	132															
TOTAL FOR MAP NO. 14								**1.179**		**132**															
2022CPT.08.11.20631	Moore	15	SR 2011 (BYRD RD)	FROM NC 690 TO SR 2005 (CYPRESS CH RD)	5	2	2WU	1.52	20	170															
TOTAL FOR MAP NO. 15								**1.52**		**170**															
2022CPT.08.11.20631	Moore	16	SR 1462 (CAVINESS TOWN RD)	FROM RANDOLPH CO. LINE TO SR 1461 (GEORGE P RD)	5	2	2WU	0.97	20	112															
TOTAL FOR MAP NO. 16								**0.97**		**112**															
2022CPT.08.11.20631	Moore	17	SR 1831 (FARM LIFE SCHOOL RD)	FROM SR 1805 (UNION CH RD) TO SR 1833 (JOEL RD)	5	2	2WU	1.32	24	147															
TOTAL FOR MAP NO. 17								**1.32**		**147**															
2022CPT.08.11.20631	Moore	18	SR 1843 (AIRPORT RD)	FROM SR 1802 (NIAGARA CARTHAGE RD) TO BEGIN MONOLITHIC ISLANDS AT TRAFFIC CIRCLE	4	2	2WU	2.4	22	268			25,824	22,658		198				2					
TOTAL FOR MAP NO. 18								**2.4**		**268**			**25,824**	**22,658**		**198**				**2**					
2022CPT.08.11.20631	Moore	19	SR 1831 (FARM LIFE SCHOOL RD)	FROM SR 1803 (VASS CARTHAGE RD) TO NC 22	5	2	2WU	2.4	22	268															
TOTAL FOR MAP NO. 19								**2.4**		**268**															
2022CPT.08.11.20631	Moore	20	SR 2080 (N MAY ST)	FROM CITY LIMITS TO PVMNT JT N OF EQUESTRIAN RD NEAR US 1	4	2	2WU	2.49	21	250															
TOTAL FOR MAP NO. 20								**2.49**		**250**															
TOTAL FOR PROJ NO. 2022CPT.08.11.20631								**27.973**		**3,383**	*	**80**	**83,556**	**68,323**	**725**	**198**	**8**	**10**	**8**	**48**	**11**		**12**	**5**	**6**
													151,879					**26**				**76**			
GRAND TOTAL								**30.893**		**3,593**	**1**	**88**	**113,949**	**92,886**	**725**	**578**	**8**	**10**	**8**	**52**	**15**	**1**	**13**	**6**	**6**
													206,835					**26**				**87**			

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.08.11.10631, 2022CPT.08.11.20631	21	

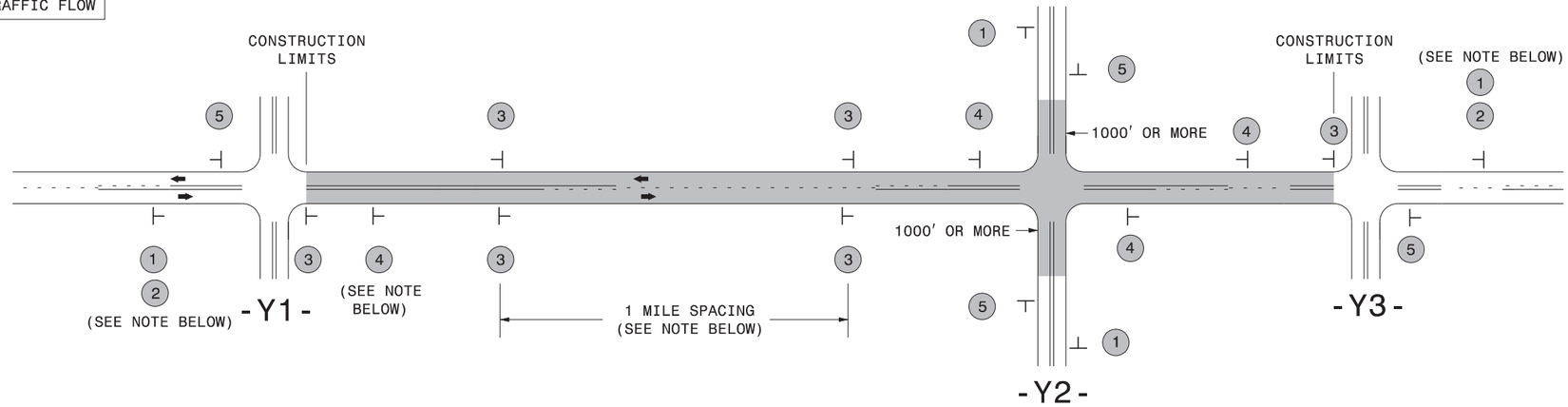
THERMOPLASTIC AND PAINT QUANTITIES

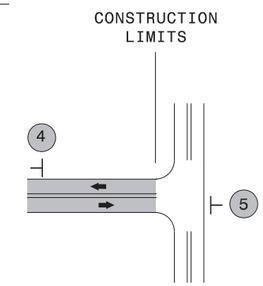
										4810000000-E		4820000000-E	4825000000-E	4835000000-E	4840000000-N			4845000000-N					4850000000-E	4860000000-E	4891000000-E	4895000000-N	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4" WHITE PAINT	4" YELLOW PAINT	8" YELLOW PAINT	12" YELLOW PAINT	24" WHITE PAINT	PAINT MSG ONLY	PAINT MSG STOP	PAINT MSG AHEAD	PAINT LT ARROW	PAINT STR & RT ARROW	PAINT STR & LT ARROW	PAINT RT ARROW	PAINT STR ARROW	4" LINE REMOVAL	8" LINE REMOVAL	GENERIC PAVEMENT MARKING ITEM - 24" X 90 M WHITE THERMO	GENERIC PAVEMENT MARKING ITEM - NON-CAST IRON SNOWPLOWABLE (Y & Y)	GENERIC PAVEMENT MARKING ITEM - NON-CAST IRON SNOWPLOWABLE (C & R)
								MI	FT	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA
2022CPT.08.11.10631	Moore	1	NC 24/27	FROM US 15-501 TO PVMNT JT 880' PAST SR 1814 (GRADY RD)	1	2	2WU	2.68	28	28,837	24,563		380	100				4	4	1	1				100	228	
TOTAL FOR MAP NO. 1								**2.68**		**28,837**	**24,563**		**380**	**100**				**4**	**4**	**1**	**1**				**100**	**228**	
2022CPT.08.11.10631	Moore	2	US 15-501	SB OUTSIDE LANE 1245' PRIOR TO BRUCEWOOD RD INTERSECTION	2	2	MU	0.24	12	1,556												1					16
TOTAL FOR MAP NO. 2								**0.24**		**1,556**												**1**					**16**
TOTAL FOR PROJ NO. 2022CPT.08.11.10631								**2.92**		**30,393**	**24,563**		**380**	**100**				**4**	**4**	**1**	**1**	**1**			**100**	**228**	**16**
										54,956								**11**								**244**	
2022CPT.08.11.20631	Moore	3	SR 1229 (CARTHAGE RD)	FROM SR 1227 (KANOY RD) TO SR 1240 (DOWD RD)	5	2	2WU	3.19	20																		
TOTAL FOR MAP NO. 3								**3.19**																			
2022CPT.08.11.20631	Moore	4	SR 1103 (SAND PIT RD)	FROM NC 5 TO SR 1103 (W BALTIMORE AVE)	5,7	2	2WU	2.52	20																40	166	
TOTAL FOR MAP NO. 4								**2.52**																	**40**	**166**	
2022CPT.08.11.20631	Moore	5	SR 2080 (OLD US 1)	US 1 TO SR 2080 (S MAY ST)	4,8	2	MU	0.51	42	5,826	7,120	210		50				16	2		4	2	730	22	50		
TOTAL FOR MAP NO. 5								**0.51**		**5,826**	**7,120**	**210**		**50**				**16**	**2**		**4**	**2**	**730**	**22**	**50**		
2022CPT.08.11.20631	Moore	6	SR 1309 (W MORGANTON RD)	FROM PVMNT JT 747' FROM US 1 TO SR 2035 (SW BROAD ST)	8	2	MU	0.153	37	1,646	1,942	144		55				5	6						55		
TOTAL FOR MAP NO. 6								**0.153**		**1,646**	**1,942**	**144**		**55**				**5**	**6**						**55**		
2022CPT.08.11.20631	Moore	7	SR 2035 (SW BROAD ST)	FROM SR 1309 (W MORGANTON RD) TO (W MASSACHUSETTS ST)	9	2	2WU	0.478	44	7,144	5,548			40	8			14	2		4				40		
TOTAL FOR MAP NO. 7								**0.478**		**7,144**	**5,548**			**40**	**8**			**14**	**2**		**4**				**40**		
2022CPT.08.11.20631	Moore	8	SR 1261 (OLD CARTHAGE RD)	FROM NC 705 TO SR 1210 (MT CARMEL RD)	5	2	2WU	3.21	20																		
TOTAL FOR MAP NO. 8								**3.21**																			
2022CPT.08.11.20631	Moore	9	SR 1208 (PAGE RD)	FROM NC 2 TO LIMITS OF PROJECT SM-5708D (660' FROM US 15-501)	4,8	2	2WU	0.828	30	5,041	7,885	300		80				7	1		2	1			80	63	15
TOTAL FOR MAP NO. 9								**0.828**		**5,041**	**7,885**	**300**		**80**				**7**	**1**		**2**	**1**			**80**	**63**	**15**
2022CPT.08.11.20631	Moore	10	SR 1124 (DERBY RD)	FROM MONTGOMERY CO. LINE TO NC 73	6	2	2WU	2.225	17																		
TOTAL FOR MAP NO. 10								**2.225**																			
2022CPT.08.11.20631	Moore	11	SR 2053 (SAUNDERS BLVD)	FROM PVMNT JT 0.16 MI FROM US 1 TO SR 2074 (BETHESDA RD)	4	2	2WU	1.05	22	11,298	6,930															70	
TOTAL FOR MAP NO. 11								**1.05**		**11,298**	**6,930**															**70**	
2022CPT.08.11.20631	Moore	12	SR 2074 (FORT BRAGG RD)	FROM PVMNT JT 85' E OF SR 2075 (E INDIANA AVE) TO (S BETHESDA RD) INCLUDE INTERSECTION OF E INDIANA	4	2	2WU	0.81	20	8,716	5,346			80		1	1										
TOTAL FOR MAP NO. 12								**0.81**		**8,716**	**5,346**			**80**		**1**	**1**										
2022CPT.08.11.20631	Moore	13	SR 1637 (SPIVEY RD)	FROM SR 1629 (PUTNAM GLENDON RD) TO DEAD END	11	2	2WU	0.72	20																		
TOTAL FOR MAP NO. 13								**0.72**																			
2022CPT.08.11.20631	Moore	14	SR 1635 (HERBIE RD)	FROM SR 1629 (PUTNAM GLENDON RD) TO DEAD END	3,10	2	2WU	1.179	20																		
TOTAL FOR MAP NO. 14								**1.179**																			
2022CPT.08.11.20631	Moore	15	SR 2011 (BYRD RD)	FROM NC 690 TO SR 2005 (CYPRESS CH RD)	5	2	2WU	1.52	20																		
TOTAL FOR MAP NO. 15								**1.52**																			
2022CPT.08.11.20631	Moore	16	SR 1462 (CAVINESS TOWN RD)	FROM RANDOLPH CO. LINE TO SR 1461 (GEORGE P RD)	5	2	2WU	0.97	20																		
TOTAL FOR MAP NO. 16								**0.97**																			
2022CPT.08.11.20631	Moore	17	SR 1831 (FARM LIFE SCHOOL RD)	FROM SR 1805 (UNION CH RD) TO SR 1833 (JOEL RD)	5	2	2WU	1.32	24																		
TOTAL FOR MAP NO. 17								**1.32**																			
2022CPT.08.11.20631	Moore	18	SR 1843 (AIRPORT RD)	FROM SR 1802 (NIAGARA CARTHAGE RD) TO BEGIN MONOLITHIC ISLANDS AT TRAFFIC CIRCLE	4	2	2WU	2.4	22	25,824	22,658		198	50				2							50	158	
TOTAL FOR MAP NO. 18								**2.4**		**25,824**	**22,658**		**198**	**50**				**2**							**50**	**158**	
2022CPT.08.11.20631	Moore	19	SR 1831 (FARM LIFE SCHOOL RD)	FROM SR 1803 (VASS CARTHAGE RD) TO NC 22	5	2	2WU	2.4	22																		
TOTAL FOR MAP NO. 19								**2.4**																			
2022CPT.08.11.20631	Moore	20	SR 2080 (N MAY ST)	FROM CITY LIMITS TO PVMNT JT N OF EQUESTRIAN RD NEAR US 1	4	2	2WU	2.49	21	26,793	21,295																
TOTAL FOR MAP NO. 20								**2.49**		**26,793**	**21,295**																
TOTAL FOR PROJ NO. 2022CPT.08.11.20631								**27.973**		**92,288**	**78,724**	**654**	**198**	**355**	**8**	**1**	**1**	**44**	**11**		**10**	**3**	**730**	**22**	**315**	**457**	**15**
										171,012						**10**			**68**							**472**	
GRAND TOTAL								**30.893**		**122,681**	**103,287**	**654**	**578**	**455**	**8**	**1**	**1**	**48**	**15**	**1**	**11**	**4**	**730**	**22**	**415**	**685**	**31**
										225,968						**10**			**79**							**716**	

PROJ. REFERENCE NO.	SHEET NO.
2022CPT.08.11.10631 ETC	TMP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

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 CONSTRUCTION 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 SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500′ +/- OF THE INTERSECTION ALONG -L- LINE.
5	END ROAD WORK — G20-2 A 48″ X 24″	PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.

-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, PORTABLE ADVANCE WARNING 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.

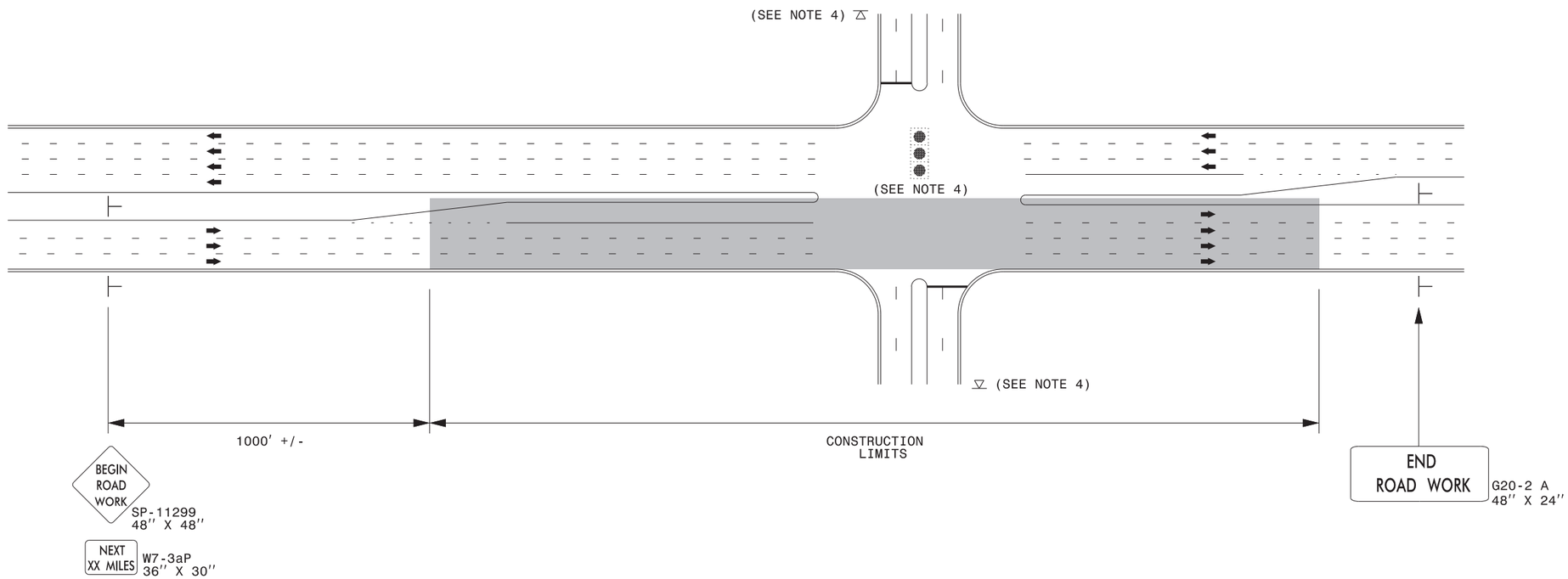
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

5/15/2017
S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedais

PROJ. REFERENCE NO.	SHEET NO.
2022CPT.08.11.10631 ETC.	TMP-2

URBAN / SUBURBAN WORKZONES



NOTES:

1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
4) 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.
5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW

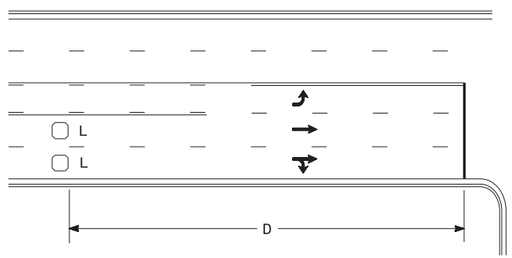
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

4/8/2015
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_UrSu (2).dgn
User:rmgarrett

PROJECT REFERENCE NO.	SHEET NO.
2022CPT.08.11.10631 ETC.	SIG-1

High Speed Detection
(≥40 mph)



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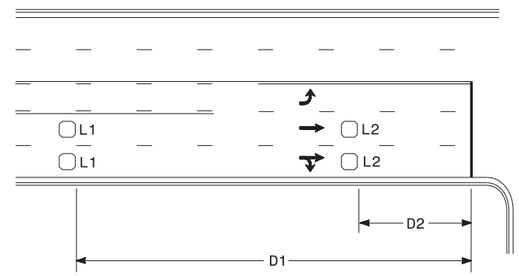


Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

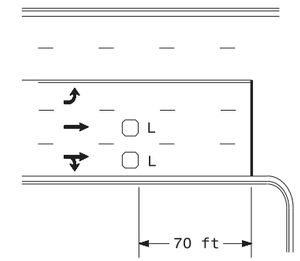
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



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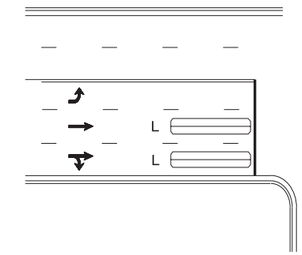
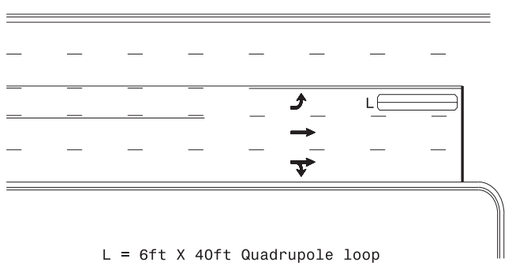


L = 6ft X 6ft
Wired in series

L = 6ft X 40ft
Quadrupole loop, wired separately

Left Turn Lane Detection



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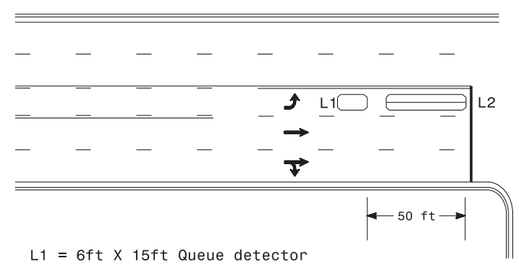


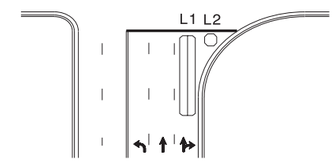
L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

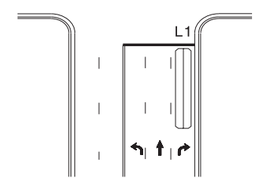
Queue Loop Detection

Right Turn Lane Detection

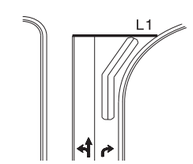


Shared Lane/
Wide Radius Turn

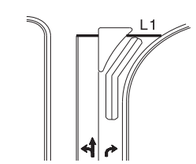
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

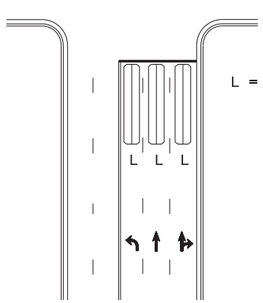


Wide Radius Turn



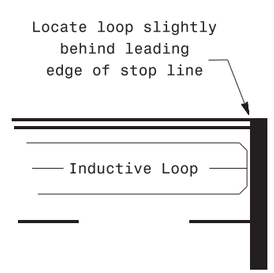
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Note:
Loop may be located in advance of stop line under any of the following conditions:
1) stop line is greater than 15′ from edge of intersecting roadway
2) loop detects a permissive or protected/permissive left turn
3) for an exclusive right turn lane

Recommended Number of Turns

Single 6′ X 6′ loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6′ X 15′ Loops:
Lead-in < 150′, use 2 turns
Lead-in > 150′, use 3 turns

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

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG
PREPARED BY: PLA	REVIEWED BY:

REVISIONS	INIT.	DATE

SCALE
N/A

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029904 ENGINEER JASON P. GALLOWAY

9/8/2020
DATE

SIG. INVENTORY NO.

08-SEP-2020 11:54
S:\TSG\Mill\Signal\Signal Design Section\Eastern Region\Loop Typical\loop typical2015.dgn
jgalloway