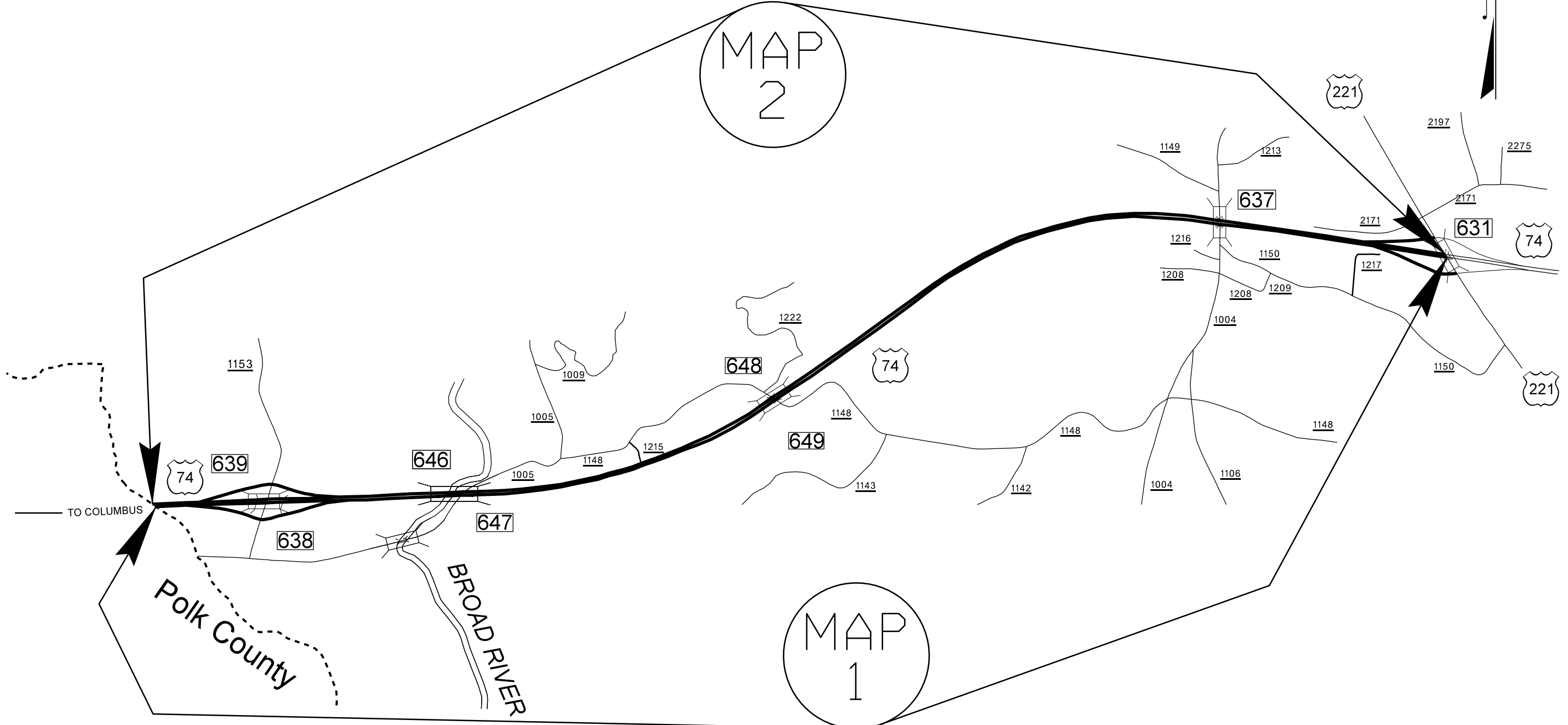
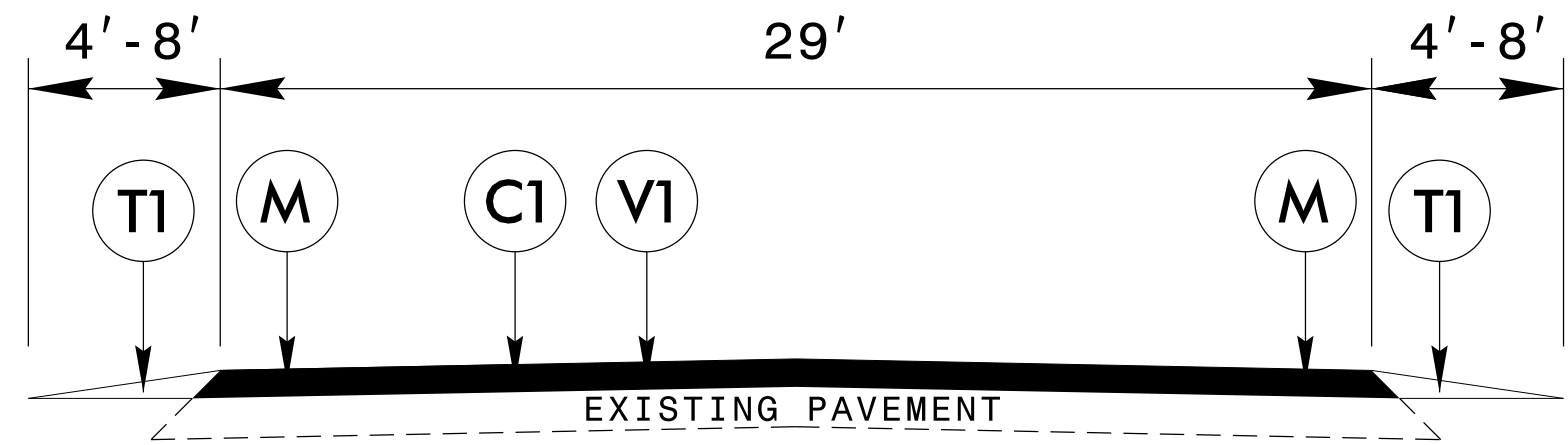


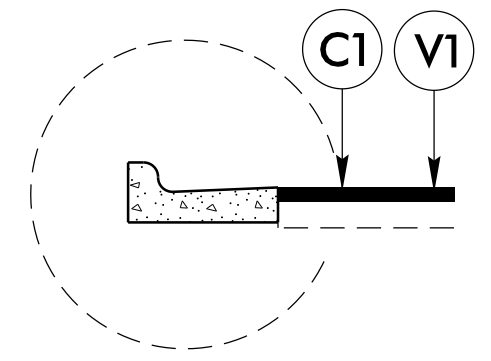
PROJECT NO.	SHEET NO.	TOTAL SHEETS
2022CPT.13.06.10811	1	9



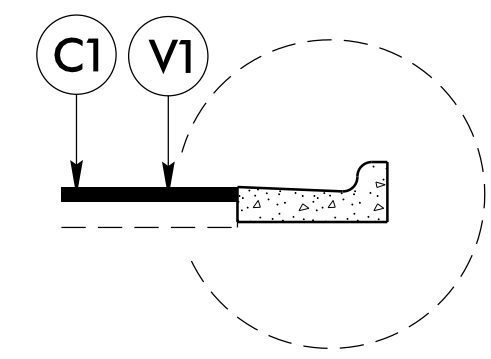
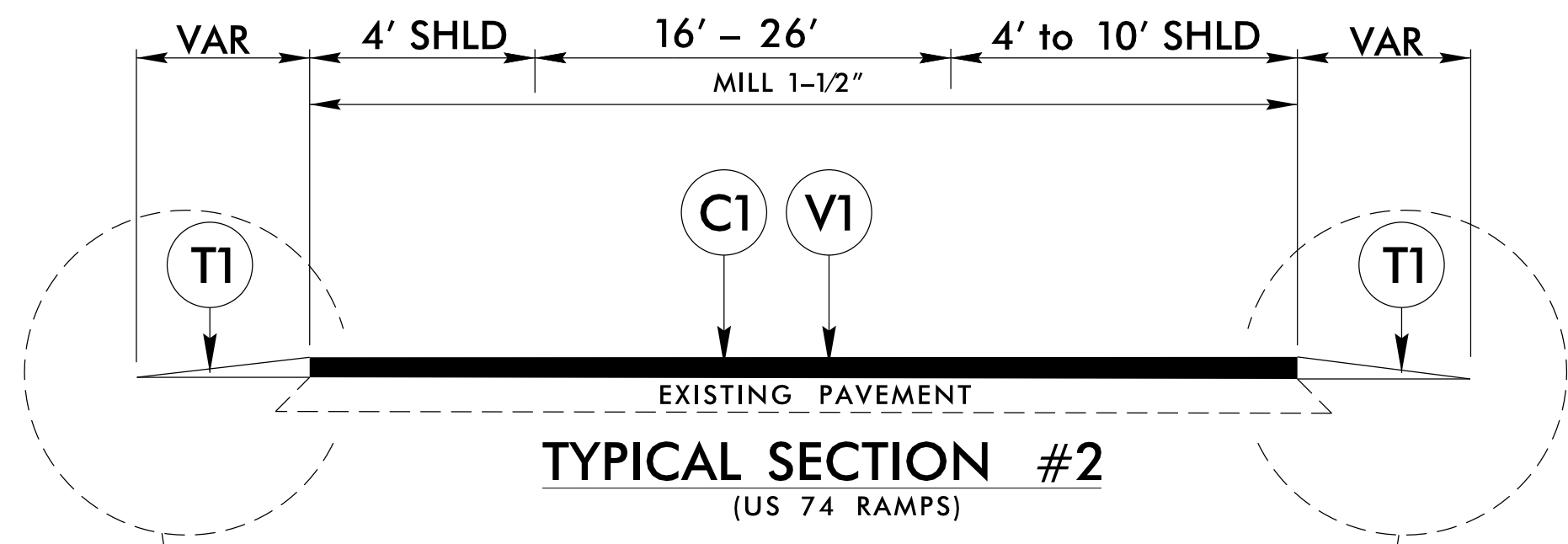
RUTHERFORD COUNTY



TYPICAL SECTION #1



DETAIL A



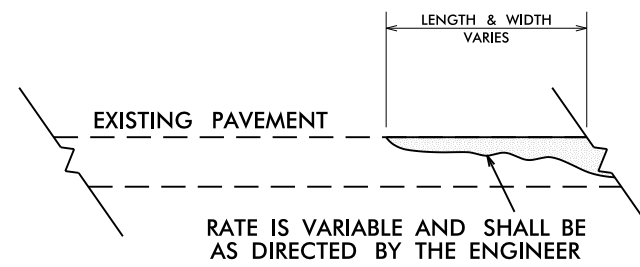
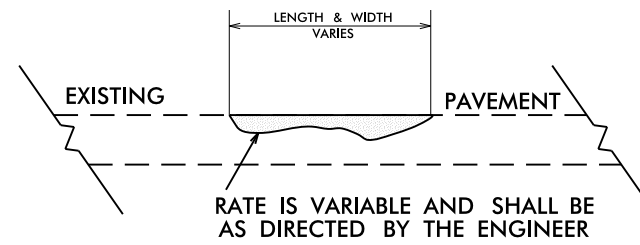
DETAIL B

AT VARIOUS LOCATIONS SEE DETAIL A

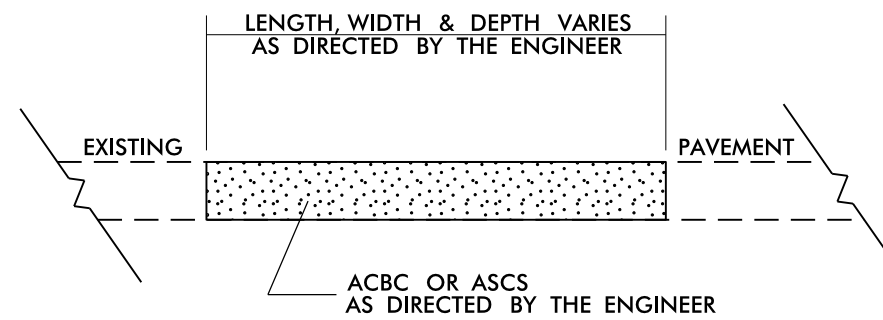
AT VARIOUS LOCATIONS SEE DETAIL B

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
M	MILLED RUMBLE STRIPS
T1	SHOULDER RECONSTRUCTION
V1	MILLING ASPHALT PAVEMENT 1-1/2" DEPTH

30-JUL-2021 15:07 S:\00\Resurfacing\District 1\Rutherford CR\Rutherford Primary Maps and Typicals\2022 Rutherford CR Typ. and Details.dgn 6/2/99



**DETAIL SHOWING
METHOD OF WEDGING**



PATCHING EXISTING PAVEMENT

6/2/99
30-JUL-2021 15:10
S:\00\Resurfacing\2022 Resurfacing\District 1\Rutherford CR\Rutherford Primary Maps and Typical\2022 Rutherford CR Typ. and Details.dgn
\$\$\$\$\$FRANM\$\$\$\$\$

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.13.06.10811	4	9

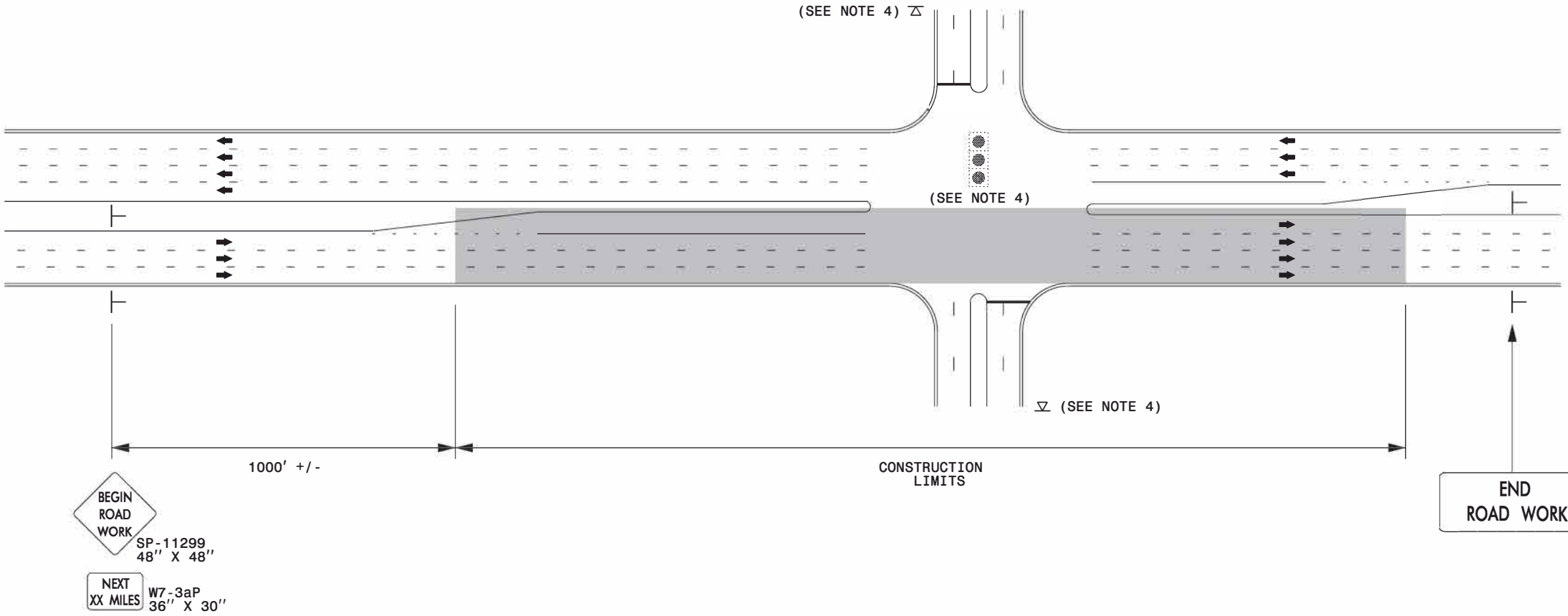
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	122000000-E	124500000-E	126000000-E	129700000-E	152300000-E	157500000-E	170400000-E	184000000-E	
												INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	
											MI	FT	TON	SMI	TON	SY	TON	TON	TON	LF
2022CPT.13.06.10811	Rutherford	1	US 74 EB	FROM POLK COUNTY LINE TO US 221	1	2	MD	NO	NO	5.46	29	273	11.24	1,420	112,742	9,470	568	465	55,576	
2022CPT.13.06.10811	Rutherford	2	US 74 WB	FROM US 221 TO POLK COUNTY LINE	1	2	MD	NO	NO	5.46	29	273	10.64	1,384	112,233	9,428	566	672	55,453	
TOTAL FOR PROJ NO. 2022CPT.13.06.10811											10.92		546	21.88	2,804	224,975	18,898	1,134	1,137	111,029
GRAND TOTAL											10.92		546	21.88	2,804	224,975	18,898	1,134	1,137	111,029

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	472500000-E			481000000-E		482000000-E	489000000-E		489000000-E	489000000-E	489500000-N	
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) RT ARROW	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (8") WHITE	POLYUREA PAVEMENT MARKING LINES (6", 20 MILS) WHITE (STANDARD GLASS BEADS)	POLYUREA PAVEMENT MARKING LINES (6", 20 MILS) YELLOW (STANDARD GLASS BEADS)	POLYUREA PAVEMENT MARKING LINES (12", 20 MILS) (STANDARD GLASS BEADS)	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS) WHITE	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKERS	
											SF	LS	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	
2022CPT.13.06.10811	Rutherford	1	US 74 EB	FROM POLK COUNTY LINE TO US 221	1	2	MD	5.46	29	612	*	1	2	2	35,534	30,059	1,840	40,111	32,809	1,840	88	569	
2022CPT.13.06.10811	Rutherford	2	US 74 WB	FROM US 221 TO POLK COUNTY LINE	1	2	MD	5.46	29	612		1	2	2	34,429	28,829	2,026	40,914	32,129	2,026	42	596	
TOTAL FOR PROJ NO. 2022CPT.13.06.10811											10.92	1	2	2	2	69,963	58,888	3,866	81,025	64,938	3,866	130	1,165
GRAND TOTAL											10.92	1	2	2	2	69,963	58,888	3,866	81,025	64,938	3,866	130	1,165

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

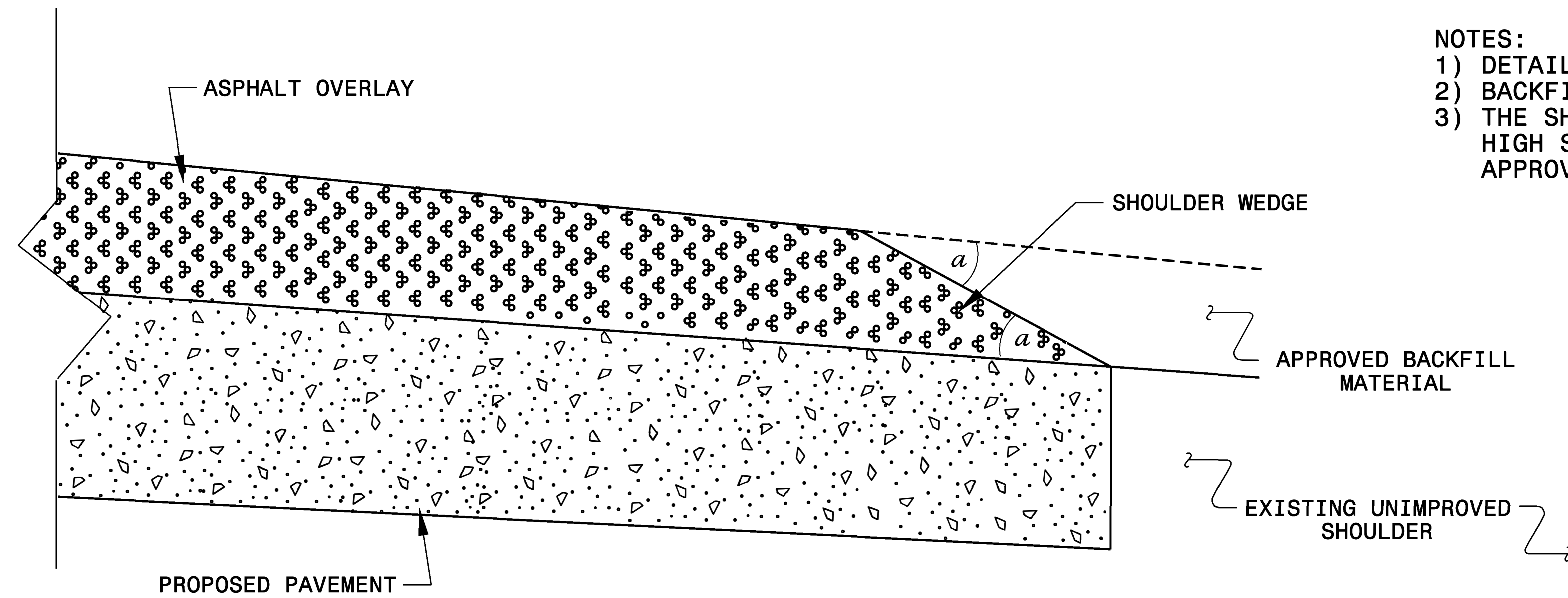


RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

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

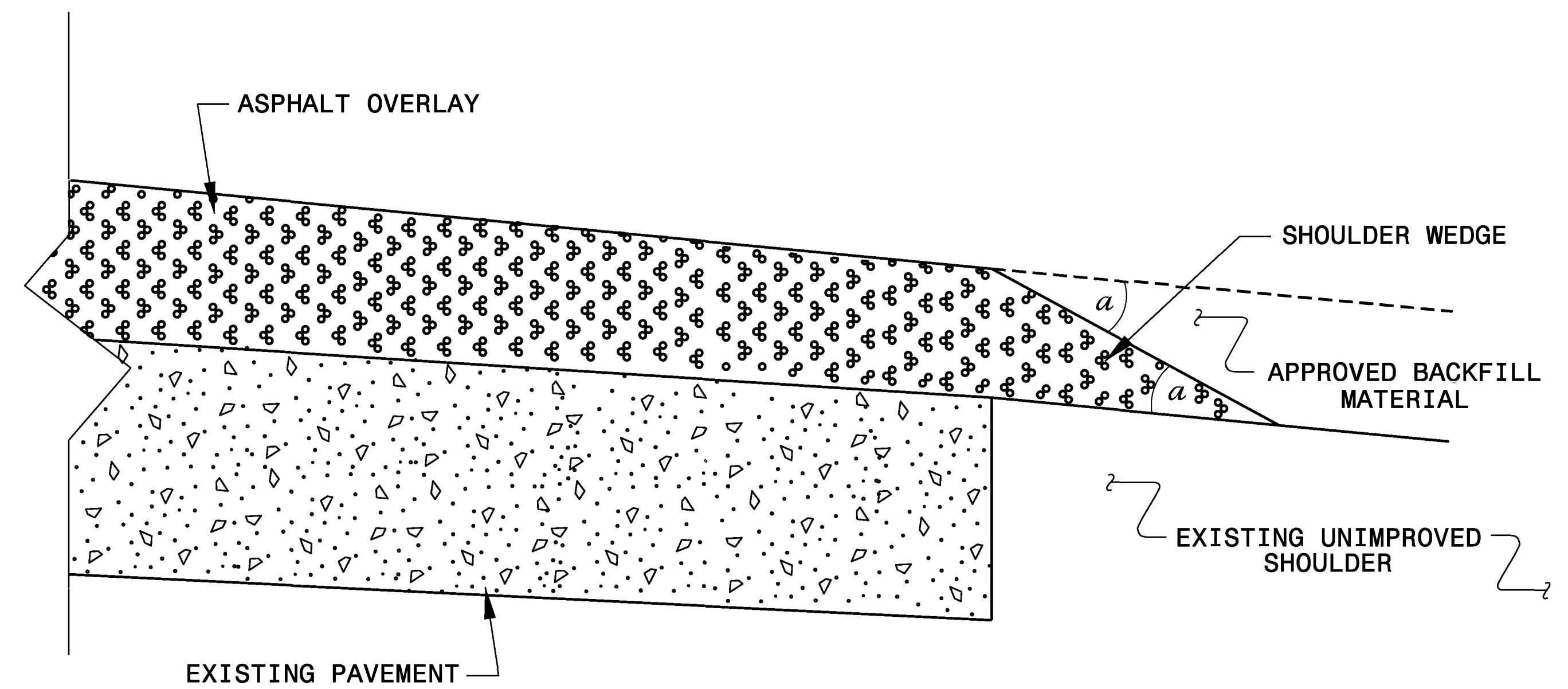
NOTES:

- 1) DETAIL DOES NOT APPLY TO OGAFB 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.



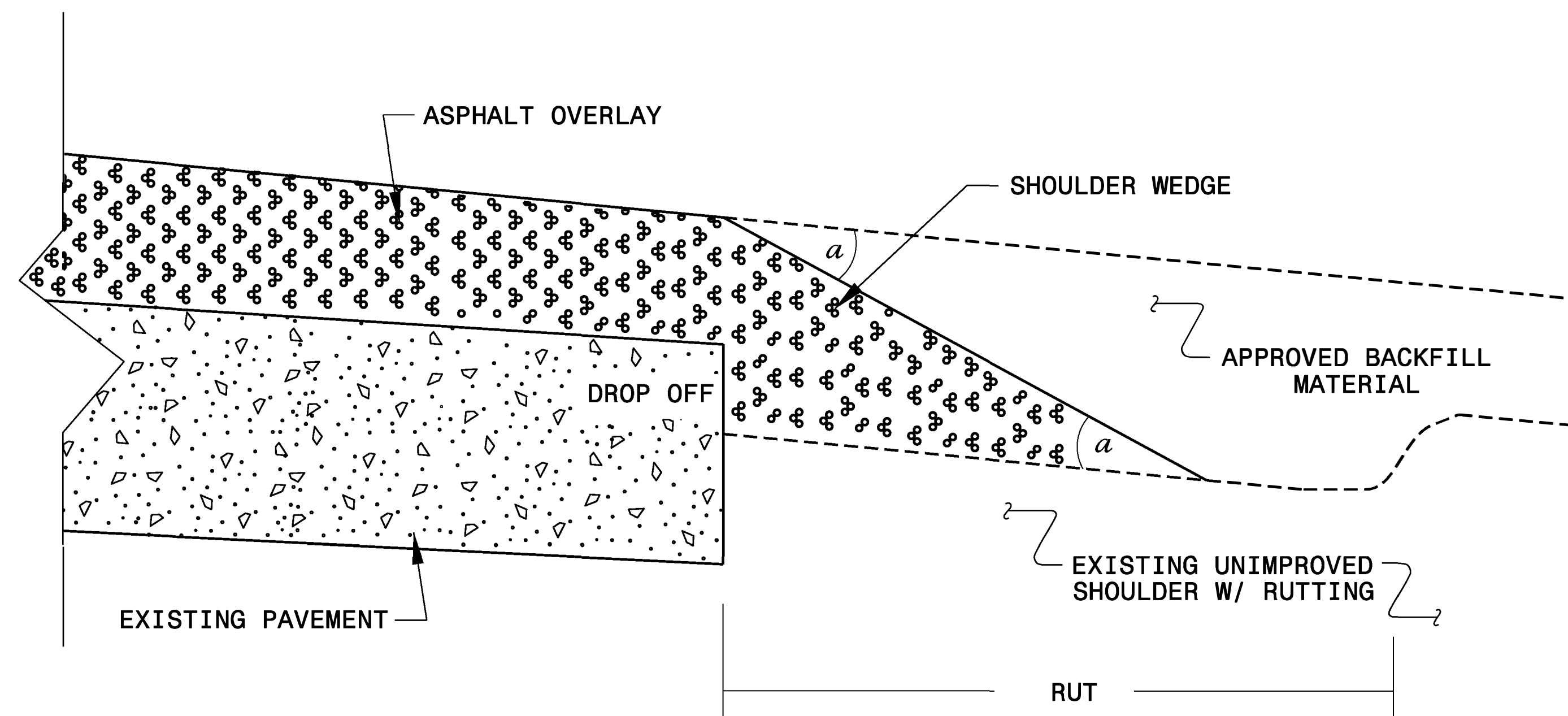
SHOULDER WEDGE DETAIL

(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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

12-SEP-2018 10:10 S:\Contracts\Projects\Resurfacing Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn Jhowerton AT USD-212595

SIGN NUMBER: 11299

TYPE: B

QUANTITY: SEE PLANS

SIGN WIDTH: 5'-6"

HEIGHT: 5'-6"

TOTAL AREA: 30.5 Sq.Ft.

BORDER TYPE: INSET

RECESS: 0.59"

WIDTH: 0.75"

RADII: 1.38"

NO. Z BARS: N/A

LENGTH: N/A

BACKG COLOR: Fluorescent Orange

COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WJ

PROJECT ID: ALL

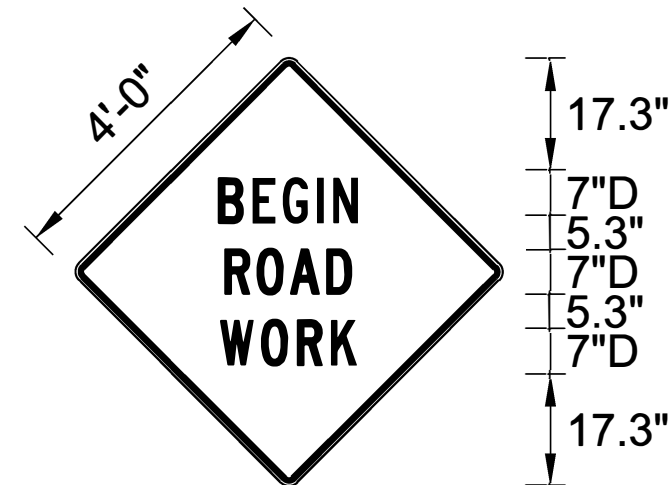
CHECKED BY:

DIV: ALL

DATE: Jun 22, 2011

SP 11299

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.13.06.10811	7	9



BORDER
R=1.38"
TH=0.75"
IN=0.59"

Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter																				Series/Size Text Length	
	B	E	G	I	N															D 2000 25.2	
20.5	6	5.4	6.3	2.8	4.8	20.5															D 2000 23.5
	R	O	A	D																	D 2000 24.5
21.4	5.8	5.9	7	4.8	21.4																
	W	O	R	K																	
20.9	7.1	6.5	5.9	4.9	20.9																

SIGN NUMBER: SP13106
 TYPE: STATIONARY
 QUANTITY: SEE PLANS

BACKG COLOR: Fluorescent Orange
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 4'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 16.00 Sq.Ft.

BORDER TYPE: INSET
 RECESS: 0.75"
 WIDTH: 1.25"
 RADII: 3"

NO. Z BARS:
 LENGTH:

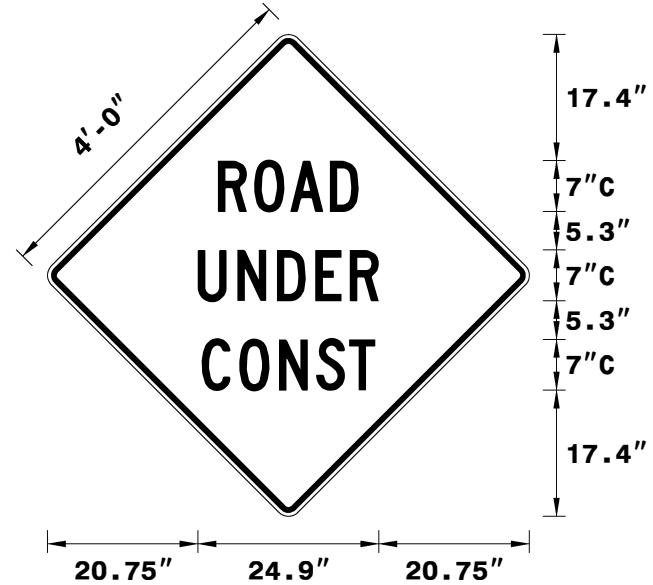
MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: B. RASHID
 PROJECT ID:

CHECKED BY: AIA
 DIV:

DATE: Apr 26, 2013

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.13.06.10811	8	9



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter																	Series/Size
																	Text Length
	R	O	A	D													C 2000
23.5	5	5	5.5	3.9	23.5												19.3
	U	N	D	E	R												C 2000
20.7	5.5	5.5	5.3	4.8	3.9	20.7											24.9
	C	O	N	S	T												C 2000
21.2	5.2	5.5	5.1	4.6	3.6	21.2											23.9

SIGN NUMBER: SP13107
 TYPE: STATIONARY
 QUANTITY: SEE PLANS

BACKG COLOR: Fluorescent Orange
 COPY COLOR: Black

DESIGN BY: B. RASHID
 PROJECT ID:

CHECKED BY: AIA
 DIV:

DATE: Apr 26, 2013

SYMBOL	X	Y	WID	HT

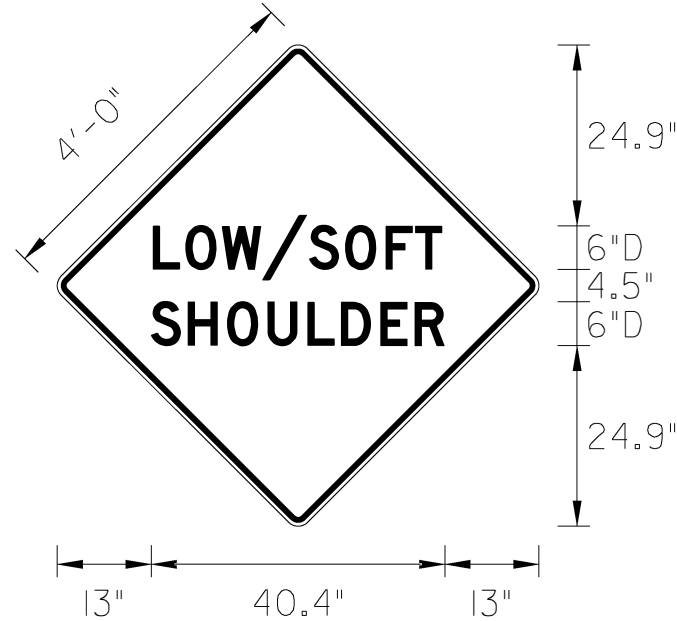
SIGN WIDTH: 4'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 16.00 Sq.Ft.

BORDER TYPE: INSET
 RECESS: 0.75"
 WIDTH: 1.25"
 RADII: 3"

MAT'L: 0.080" (2.0 mm) ALUMINUM

NO. Z BARS:
 LENGTH:

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.13.06.10011	9	9



Spacing Factor is 1 unless specified otherwise

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size	
	L	O	W	/	S	O	F	T				Text Length
	13.2	4.5	5	5.5	6.5	5	5.6	4.1	3.7	13.2		D 2000 39.9
		S	H	O	U	L	D	E	R			D 2000 40.4
	13	5.1	5.4	5.6	5.5	4.6	5.4	4.7	4.1	13		