

ESTIMATED QUANTITIES

NOTES	ITEM NO.	ITÉM	UNIT	MUNICIPAL	RUAL	TOTAL
	2021.501	MOBILIZATION	LUMP SUM	0.13	0.87	1
	2051.501	MAINTENANCE AND RESTORATION OF HAUL ROADS	LUMP SUM	0.13	0.87	1
(1)	2104.604	SALVAGE AGGREGATE SHOULDERING	SQ YD	4,505 (P)	42,033 (P)	46,538 (P)
(1)	2118.509	AGGREGATE SURFACING CLASS 1 MODIFED	TON	1,194	15,691	16,885
(2)	2123.510	MOTOR GRADER	HOUR	1	9	10
(1)(3)	2215.504	STABILIZED FULL DEPTH RECLAMATION (8.0")	SQ YD	17,249 (P)	126,797 (P)	144,046 (P)
(1)(5)	2232.504	MILL BITUMINOUS SURFACE (5.0")	SQ YD	12,799 (P)	89,371 (P)	102,170 (P)
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLONS	1,500	9,400	10,900
	2360.509	TYPE SP 9.5 WEAR COURSE MIXTURE (2,C)	TON	3,052	18,882	21,934
	2360.509	TYPE SP 12.5 NON WEAR COURSE MIXTURE (2,B)	TON	2,324	14,049	16,373
	2563.601	TRAFFIC CONTROL	LUMP SUM	0.13	0.87	1
(1)(4)	2580.501	INTERIM PAVEMENT MARKING	LUMP SUM	0.13	0.87	1
	2582.503	6" SOLID LINE WHITE-PAINT	LIN FT	8,052	65,656	73,708
	2582.503	4" BROKEN LINE YELLOW-PAINT	LIN FT	805	6,566	7,371
	2582.503	4" SOLID LINE YELLOW-PAINT	LIN FT	800	800	1,600

NOTES:

- (P) DENOTES PLAN QUANTITY PER SPEC. 1901.
- (1) SEE SPECIAL PROVISIONS.
- (2) EQUIPMENT HOURS HAVE BEEN PROVIDED FOR MAINTAINING DRAINAGE AND ANY ADDITIONAL WORK THE COUNTY DEEMS NECESSARY TO THE PROJECT
- THE PROJECT.

 (3) ITEM INCLUDES LIQUID AGGREGATE STABILIZATION ADDITIVE TO BE SUPPLIED BY THE COUNTY AND INJECTED AS PER SPECIAL PROVISIONS.
- (4) INTERIM LANE MARKING TO BE PLACED ON FINAL LIFT AT SPACING OF 200'.
- (5) ITEM INCLUDES ALL BITUMINOUS X-RDS AND DRIVEWAYS TO THE R/W, AND KICKOUTS.

CONSTRUCTION NOTES:

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT PROPER AUTHORITIES FOR LOCATION OF UTILITIES ON THIS PROJECT.

APPROACHES TO BE PAVED ACCORDING TO STANDARD PLATE NO. 9000E

X-RDS AND DRIVEWAYS TO BE PAVED TO R/W LINE,

ALL DRIVEWAYS TO HAVE A 3' KICK OUT BY 170' LONG CENTERED ON ENTRANCE.

ALL FIELD ENTRANCES TO HAVE A 3' KICK OUT BY 80' LONG CENTERED ON ENTRANCE.

MAILBOXES TO HAVE A 3' KICK OUT BY 50' LONG CENTERED ON THE MAILBOX.

ALL APPROACHES SHALL BE PAVED WITH 2-3" LIFTS TO BE COMPLETED ON FIRST LIFT MIX SPNWB230B AND THIRD LIFT MIX SPWEA230C.

CONSTRUCTION DETAILS

WEAR COURSE MIXTURE (SPWEA230C)							
WEAR COURSE MIXTURE FOR BIT. SURFACE = 110LBS/SQ YD/IN OF THICKNESS (1.5"THICK)							
STATION TO STATION	TON						
0+00 TO 328+27.80	328	24	21.87	4.57	7,174		
328+27.80 TO 368+53.47	40	30	22.15	4.51	886		
SLOPE CORRECTION & RIDE 5%	403						
APPROACHES, ENTRANCES, MAILBOX,	1,378						
	9,841						

WEAR COURSE MIXTURE			TURE (SPW = 110LBS/S		CKNESS (2"THICK)	
STATION TO STATION LENGTH WIDTH MIXTURE LINEAR FT PER TON						
0+00 TO 328+27.80	328	24.50	29.77	3.36	9,765	
328+27.80 TO 368+53.47	40	30.50	30.15	3.32	1,206	
SLOPE CORRECTION & RIDE 5%	548					
APPROACHES, ENTRANCES, MAILBOX,	PAVED SHOULD	DERS			574	
				TOTAL:	12,093	

NON WEAR COURSE MIXTURE (SPNWB230B)							
NON WEAR COURSE MIXTURE FOR BIT. SURFACE = 110LBS/SQ YD/IN OF THICKNESS (2.5" THICK)							
STATION TO STATION LENGTH WIDTH MIXTURE LINEAR FT PER TON							
0+00 TO 328+27.80	328	25	37.98	2.63	12,456		
328+27.80 TO 368+53.47 40 31 38.45 2.60					1,538		
SLOPE CORRECTION & RIDE 5% 700							
APPROACHES, ENTRANCES, MAILBOX, PAVED SHOULDERS 1.679							
TOTAL: 16,373					16,373		

	AGGREGATE S NG = 110LBS			MODIFIED CKNESS (6.0" THICK	()
STATION TO STATION	TON				
0+00 TO 328+27.80	656	5	20.55	4.87	13,483
328+27.80 TO 368+53.47	80	2	11.08	9.03	886
SLOPE CORRECTION 10%	1,436				
APPROACHES, ENTRANCES, MAILBOX	1,080				
				TOTAL:	16,885

BASIS FOR PLANNED QUANTITIES:	
AGGREGATE BASE, CLASS 5	- 105LBS/SQ YD PER 1" DEPTH (CV)
AGGREGATE SURFACING, CLASS 1 MODIFIED	110LBS/SQ YD PER 1" DEPTH (CV)
NON WEAR COURSE MIXTURE TYPE SP	- 110LBS/SQ YD PER 1" DEPTH (CV)
WEAR COURSE MIXTURE TYPE SP	- 110LBS/SQ YD PER 1" DEPTH (CV)
BITUMINOUS MATERIAL	- FOR MIXTURE SHALL BE PG 58S-28 & PG
	58H-34
	- FOR TACK COAT SHALL BE CQS-1H AT
	0.05 GAL/SQ YD
ALL UNITS AND DI	MENSIONS ARE ENGLISH.

STANDARD PLATES						
THE FOLLOWING S	TANDARD PLATES, APPROVED BY THE FWHA, SHALL APPLY ON THIS PROJECT					
PLATE NO.	DESCRIPTION					
8000K TEMPORARY CHANNELIZERS						
9000E APPROACH AND ENTRANCES (SIDE SLOPE 1:4)						
ALL UNITS AND DIMENSIONS ARE ENGLISH.						
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CURRENT	DESIGN
9 TON	
ADT	384
SOIL FACTOR	130%
REQUIRED GE	25.39
TOTAL	GE = 26.5

NEW DESIG	N
10 TON	
ESALS	200,000
R VALUE	8.0
REQUIRED GE	25.39
4" AGGREGATE BASE CL4	3.00
8" CLASS 7 STABILIZED	10.00
2.5" TYPE SP NON WEAR	5.60
2" TYPE SP WEAR	4.50
1.5" TYPE SP WEAR	3.40
тотл	AL GE = 26.50

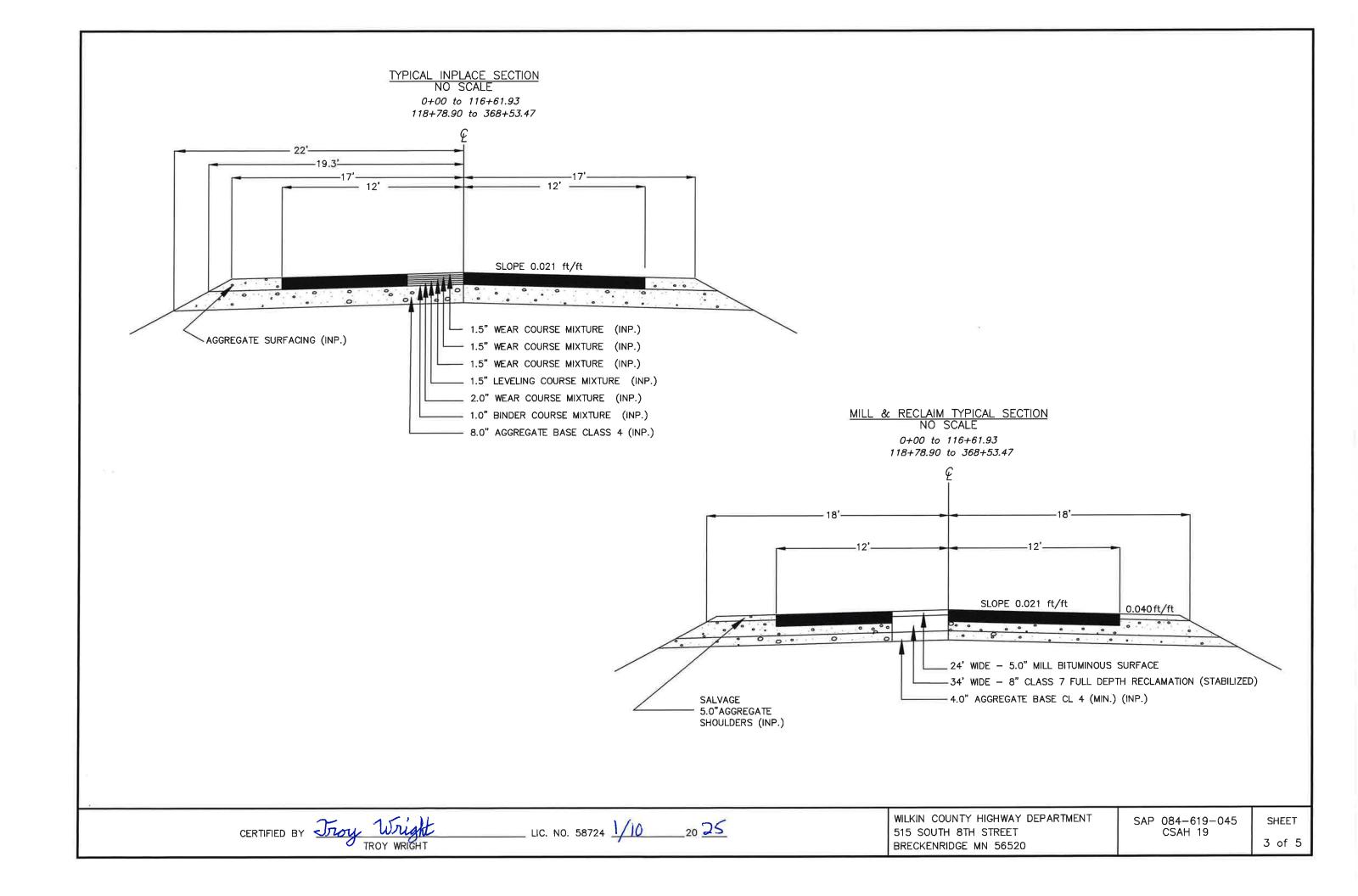
CERTIFIED BY TROY WRIGHT

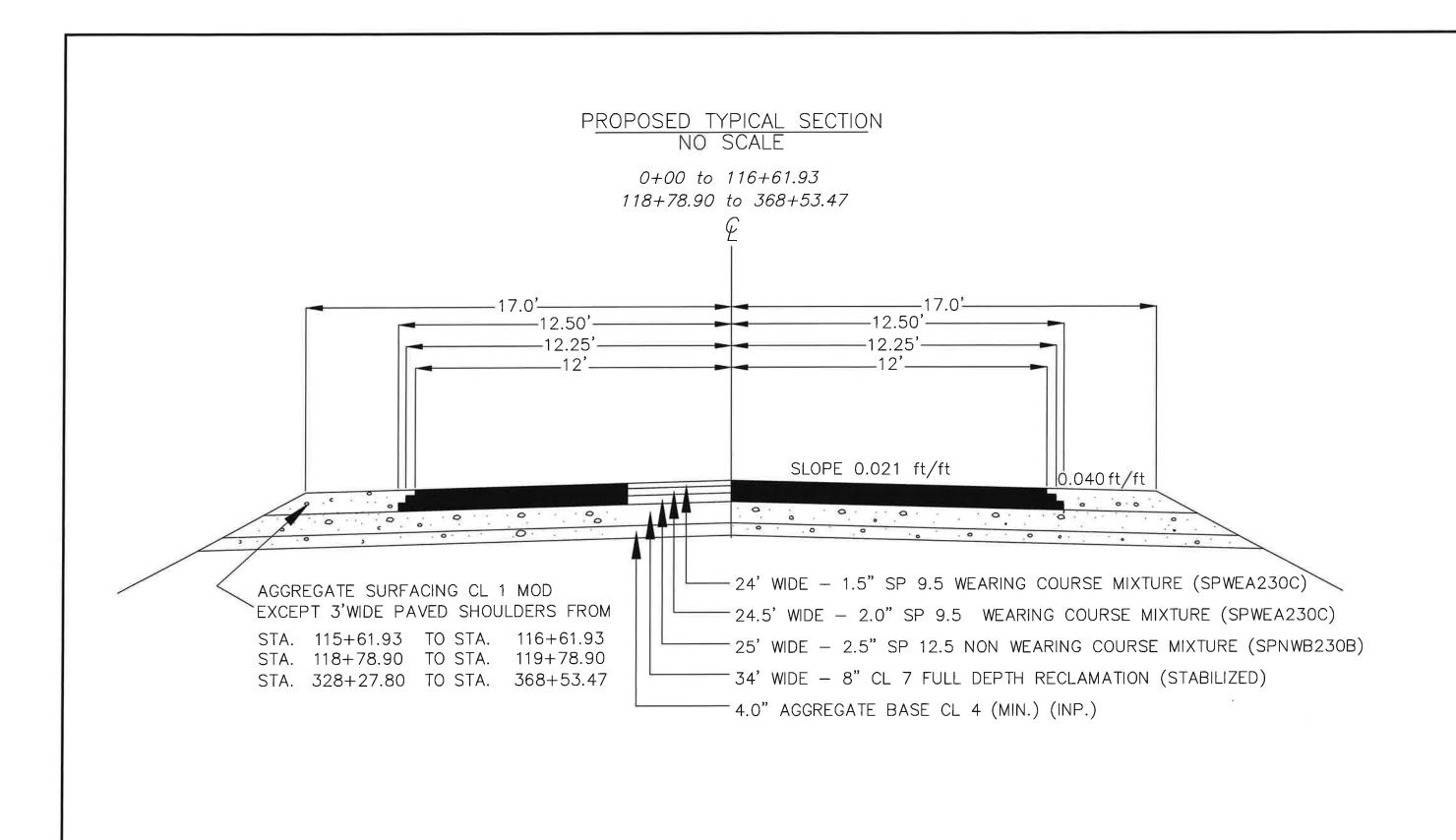
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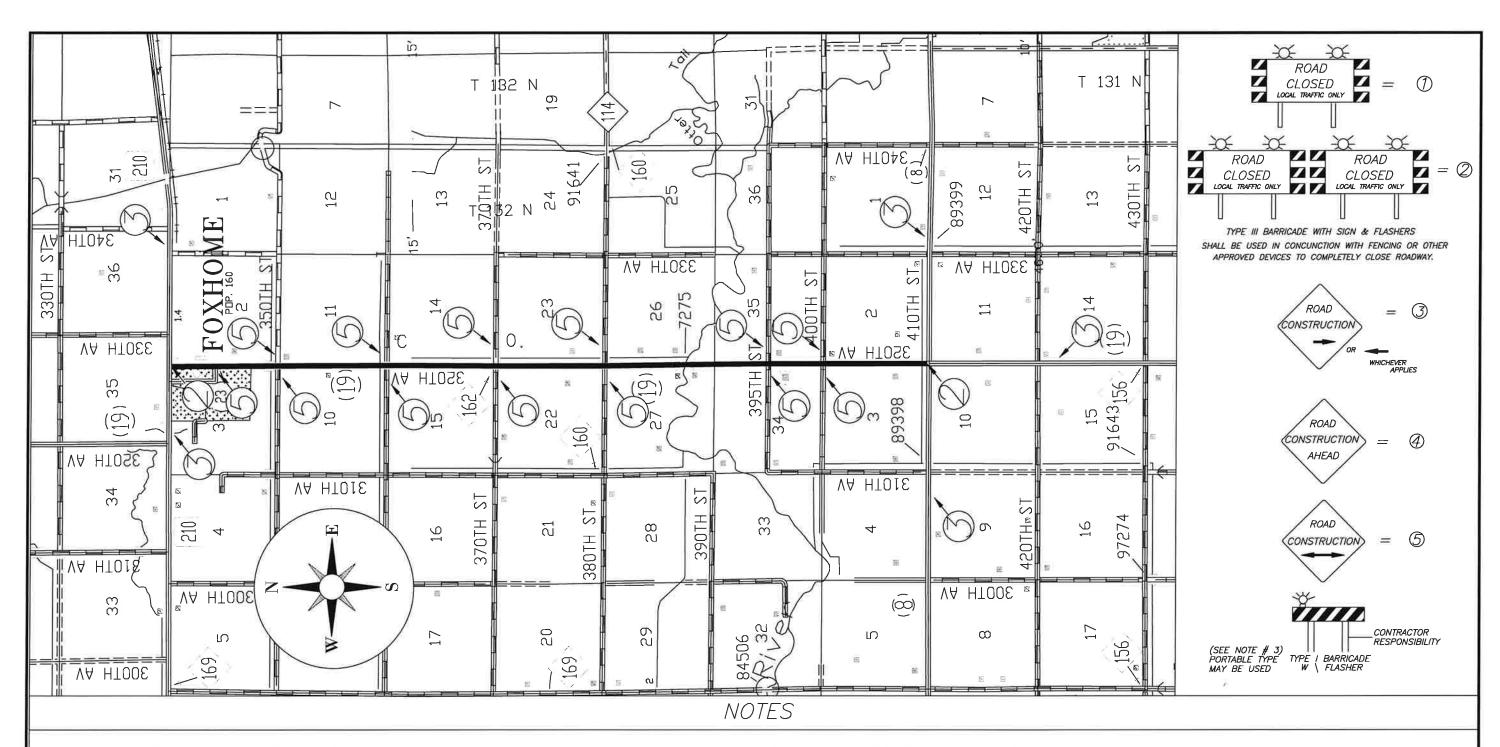
WILKIN COUNTY HIGHWAY DEPARTMENT 515 SOUTH 8TH STREET BRECKENRIDGE MN 56520 SAP 084-619-045 CSAH 19

SHEET

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- 1. ALL TRAFFIC CONTROL SIGNING OUTSIDE CONSTRUCTION ZONE SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY COUNTY.
- 2. ALL TRAFFIC CONTROL SIGNING SHALL BE IN PLACE BEFORE WORK MAY BEGIN.
- 3. A "TYPE 1" BARRICADE WITH FLASHERS WILL BE REQUIRED ON EACH END OF ANY PIPE OR OTHER MATERIALS PLACED ON OR DIRECTLY ADJACENT TO THE TRAVELED ROADWAY.
- 4. ALL TRAFFIC CONTROL SIGNING SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITION OF THE "M.M.U.T.C.D." INCLUDING "FIELD MANUAL FOR TEMPORARY TRIFFIC CONTROL ZONE LAYOUTS."
- 5. ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.
- 6. CONTRACTOR RESPONSIBLE FOR ALL SIGNAGE ON THE PROJECT FROM THE BEGINNING TERMINI TO THE ENDING TERMINI.