



## **GOVERNING SPECIFICATIONS**

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL APPLY.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

## SHEET INDEX

THIS PLAN CONTAINS 4 SHEETS

SHEET NO. DESCRIPTION

2 3 4 TITLE SHEET ESTIMATED QUANTITIES, CONSTRUCTION NOTES, AND DETAILS EXISTING CONDITIONS AND REMOVALS PLAN CONSTRUCTION PLANS

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

REVISION

SAMUEL G. JOCHUM, P.E. HAKANSON ANDERSON

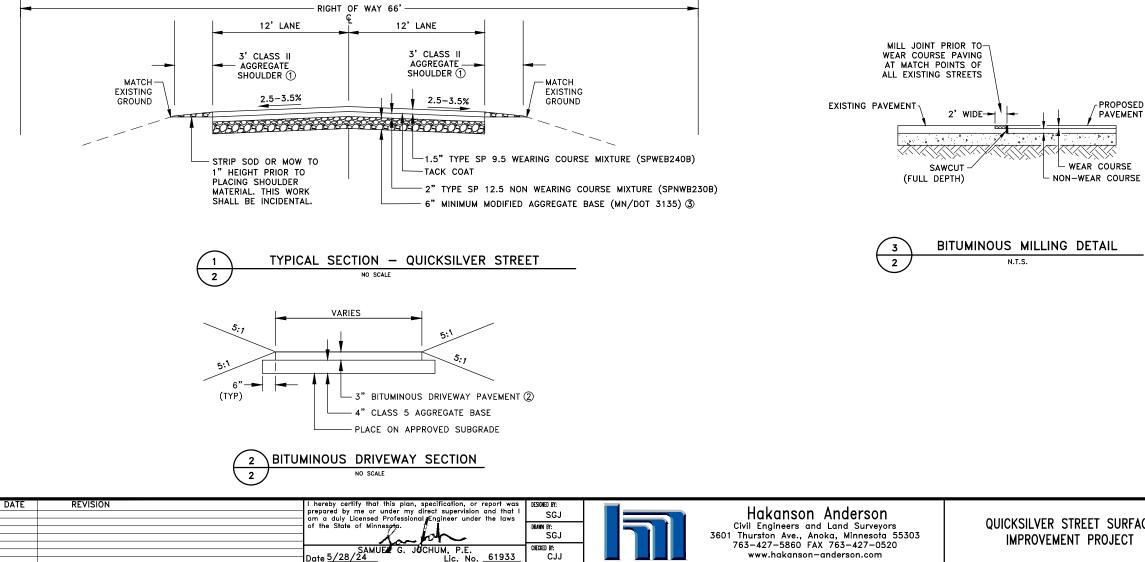
DESIGN ENGINEER

LIC. NO.

SHEET 1 OF 4 SHEETS

ESTIMATED QUANTITIES							
				QUICKSILVER STREET			
ITEM	Mn/DOT			ESTIMATED QUANTITY			
NO.	SPEC. NO.	ITEM DESCRIPTION	UNIT				
1	2021.501	MOBILIZATION	LUMP SUM	1			
2	2104.503	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LIN FT	45			
3	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	24			
4	2211.509	AGGREGATE BASE CLASS II	TON	41			
5	2215.504	FULL DEPTH RECLAMATION	SQ YD	1 <b>1</b> 60			
6	2232.504	MILL BITUMINOUS SURFACE		5.6			
7	2357.506	7.506 BITUMINOUS MATERIAL FOR TACK COAT GALLC		73			
8	2360.504	TYPE SP 9.5 WEARING COURSE MIXTURE (2;B) 3.0" THICK	SQ YD	24			
9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2;B)	TON	114			
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2;B)	TON	153			

BASIS OF ESTIMATED QUANTITIES				
AGGREGATE BASE CLASS 5	100 lbs/yd <sup>2</sup> /in			
NON WEARING BITUMINOUS COURSE MIXTURE	110 lbs/yd <sup>2</sup> /in			
WEARING COURSE BITUMINOUS MIXTURE	110 lbs/yd <sup>2</sup> /in			
BITUMINOUS MATERIAL FOR TACK COAT - NEW ASPHALT	0.06 gal/yd <sup>2</sup>			



OCCURS.

(2) BITUMINOUS DRIVEWAY PAVEMENT SHALL BE PAID PER ITEM 2360 TYPE 9.5 WEARING COURSE MIXTURE (2,B) 3" THICK.

(3) CONTRACTOR SHALL WORK WITH ENGINEER TO DETERMINE APPROPRIATE RECLAIM DEPTH. A MINIMUM OF 6" OF RECLAIM IS PREFERRED.

GENERAL CONSTRUCTION AND SOILS NOTES:

1. PROVIDE A SAW CUT WHEN PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT AND AT TERMINI OF CONSTRUCTION TO ENSURE A UNIFORM JOINT.

2. BITUMINOUS ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH MN/DOT SPEC. 2104. 3. USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF PER THE BASIS OF ESTIMATED QUANTITIES BETWEEN BITUMINOUS LAYERS. THE APPLICATION RATES ARE FOR UNDILUTED EMULSIONS.

4. PERFORMANCE GRADED (PG) ASPHALT BINDER PG 58-28, SPEC. 3151, SHALL BE USED FOR ALL BITUMINOUS MIXES ON THIS PROJECT. SPECIFIC PG GRADES SHALL BE STATED IN THE SPECIAL PROVISIONS AND AT THE END OF THE MIX DESIGNATION NUMBER SHOWN ON THE TYPICAL SECTION.

5. THE BITUMINOUS MIXTURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS 2360 AND 3139.

6. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD LOCATED PRIOR TO THE START OF WORK. IF NECESSARY, THE UTILITY COMPANIES WILL RELOCATE THEIR FACILITIES CONCURRENTLY WITH THE CONSTRUCTION OPERATIONS UNDER THIS CONTRACT. CONTRACTOR SHALL SCHEDULE CONSTRUCTION IN COOPERATION WITH UTILITY RELOCATION 7. CONTRACTOR SHALL SALVAGE AND REINSTALL ALL SIGNS AND MAILBOXES AS REQUIRED TO COMPLETE THE WORK. THIS WORK SHALL BE INCIDENTAL.

8. CONTRACTOR SHALL PROMPTLY SWEEP EXISTING STREETS WHEN ANY SEDIMENT TRACKING

REFERENCE NOTE:

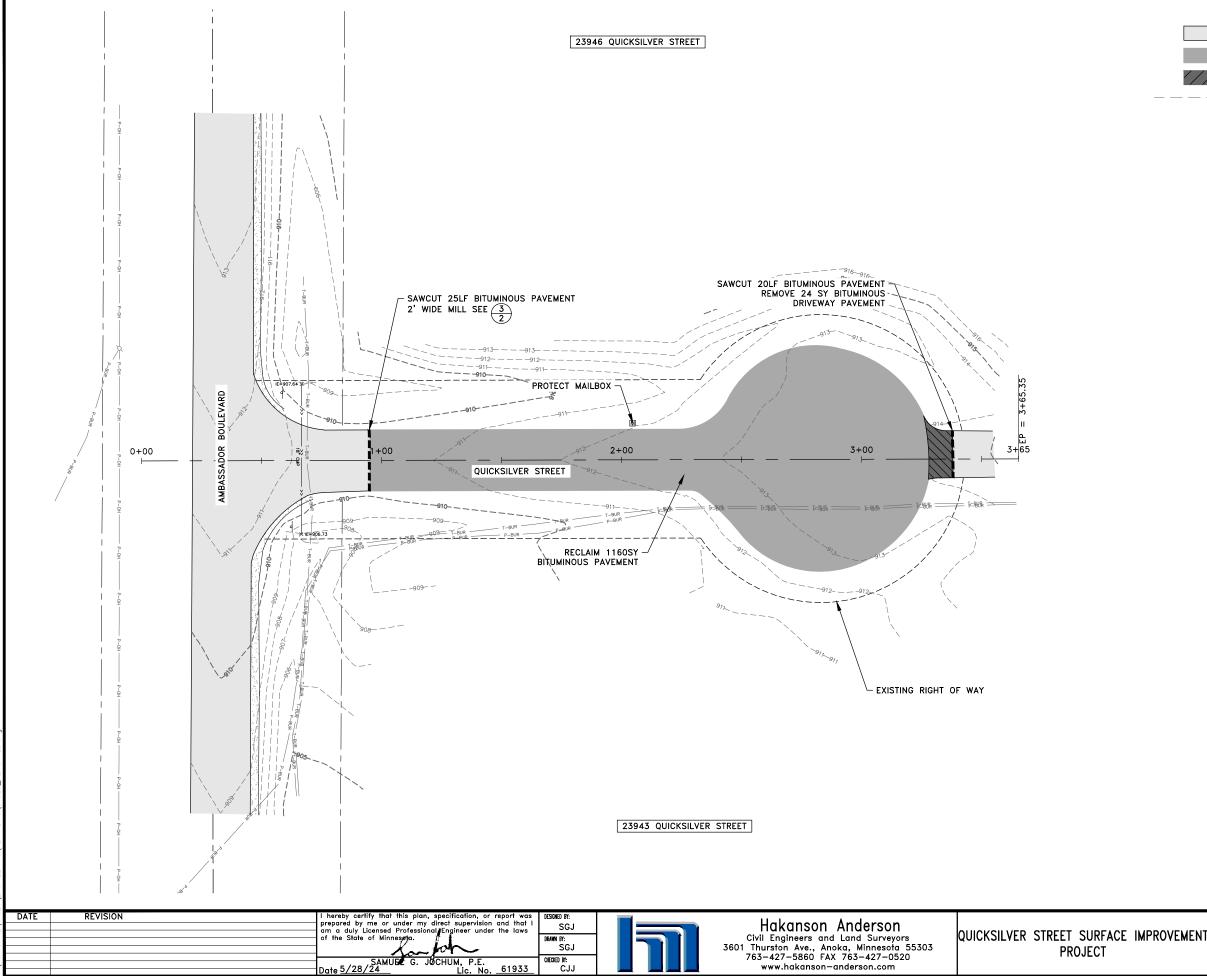
SHOULDER SHALL BE AGGREGATE BASE CLASS 2 (LIMESTONE).

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ESTIMATED QUANTITIES, CONSTRUCTION NOTES, AND DETAILS

CITY OF ST. FRANCIS, MINNESOTA

SHEET					
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	4				
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PROJECT

## <u>LEGEND</u>

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EXISTING BITUMINOUS PAVEMENT RECLAIM BITUMINOUS PAVEMENT REMOVE BITUMINOUS DRIVEWAY PAVEMENT EXISTING CONTOUR

