

BRIDGE CODE	R.R. BRIDGE NO.	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	199	8	N D	MG-1-010 (05) 917		24	

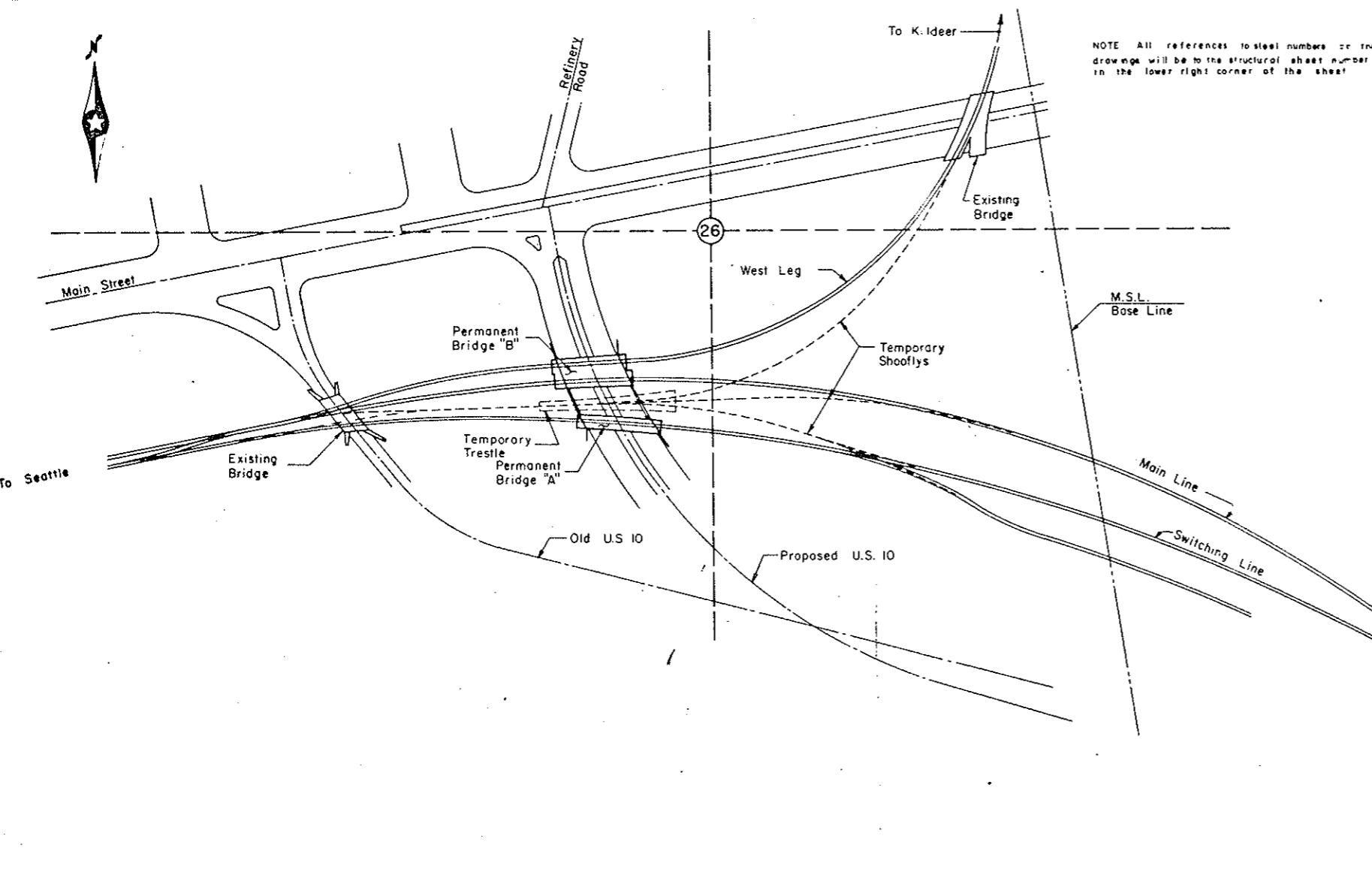
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ESTIMATE OF QUANTITIES			
CODE	SPEC	BID ITEM	
0101	203	COMMON EXCAVATION - TYPE A	18,276 CU. YD.
0190	203	MOISTURE CONTROL	LUMP SUM
0100	208	CLASS I EXCAVATION	1,212 CU. YD.
0100	228	SELECT BACKFILL	2,695 CU. YD.
9110	610	CLASS AE-1 MODIFIED CONCRETE *	1849.7 CU. YD.
0110	612	REINFORCING STEEL (GRADE 40)	186,468 LB.
0361	616	STRUCTURAL STEEL (A36 ROLLED BEAM)	749,123 LB.
5880	616	HIGH STRENGTH LOW ALLOY	
		STRUCTURAL STEEL (A588, MISC.)	94,409 LB.
0100	620	UNTREATED TIMBER	2.6 MSB
0040	622	STEEL PILING (HP 12 x 53)	18,720 LIN. FT.
1340	622	STEEL TEST PILE (HP 12 x 53) @ 75 FEET	8 EACH
9535	900	DECK DRAINAGE SYSTEM	LUMP SUM
0119	736	ONE-PLY MEMBRANE WATERPROOFING	5911 SQ. FT.
9532	900	CONCRETE SURFACE PROTECTION	8810 SQ. FT.

**LIST OF SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS**

Class AE-1 Modified Concrete	SP1
Non-Skid Epoxy	SPK
One-Ply Membrane Waterproofing	SPA
Gray Rubber Joint Filler	SPE
Structural Steel	SP-116C
Railway Protection and Liability Insurance	SP-14C
Underpass Backfill	SP
Concrete Surface Protection	SP

APPROVED  
*B. H. Anderson*  
 ASS'T. V. P. ENGINEERING - BURLINGTON NORTHERN INC.



BENCH MARKS			
NO.	DESCRIPTION	LOCATION	ELEV.
1	S.W. Cor. Underpass	36+53.6 - 13.5 RI.	1653.26
2	R.R. Spike in P.P.	46+97 - 182 LI.	1639.53

Note: Permanent Bridge "A" and Permanent Bridge "B" designations are for use in plan preparation only. See Bridge Number Sign and Federal Aid Name Plate details for B.N. Inc. and N.D.H.D. bridge numbers respectively.



HOWARD NEEDLES TAMMEN & BERGENDOFF  
 CONSULTING ENGINEERS  
**HNTB**

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NORTH DAKOTA  
 STATE HIGHWAY DEPARTMENT  
**BURLINGTON NORTHERN, INC.**  
 RAILWAY UNDERPASSES  
 PROJECT MG-1-010(05)917 STA 2+66.9  
 MORTON COUNTY

APPROVED  
*[Signature]*  
 DATE \_\_\_\_\_  
 BRIDGE ENGINEER