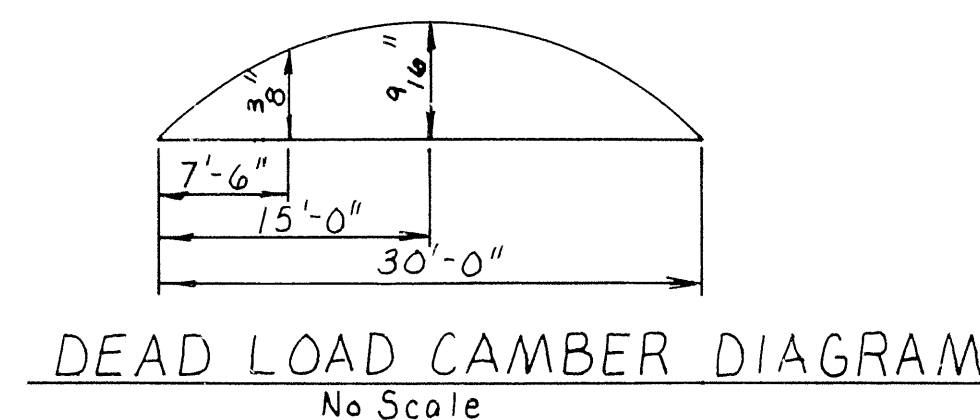


QUANTITIES PER BENT

	CONCRETE	REINFORCING STEEL
END BENT	9.03 CU YDS	1165 LBS
INT BENT FIX-FIX	6.92 CU YDS	1009 LBS
INT BENT FIX-EXP	6.92 CU YDS	974 LBS



BAR LIST (EACH BENT)

MARK	NO. REQ'D	END	INT.	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B401	42	38		9'-2"	2'-0"	2'-2"	2"	
B402	12	15		6'-2"	2'-0"	2'-2"	2"	
B403	2	2		32'-8"			Str.	
B405	10			6'-1"	4'-6"	1'-8"	2"	
B406	30			3'-10"			Str.	
B409	*			2'-6"			Str.	
B601	6	6		34'-0"	32'-8"	6"	4"	
B602	6	6		32'-8"			Str.	
B410	10			6'-1"	5'-2"	1'-0"	2"	
B411	12			3'-6"			Str.	
B412	10			4'-1"	2'-6"	1'-8"	2"	

- * 21 Required For Fix-Exp Bent
- * 42 Required For Fix-Fix Bent

GENERAL NOTES

ALL CONCRETE TO BE CLASS "S" AND SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL TO BE ASTM A615 OR A617, GRADE 60.

ALL PILING IN END BENTS SHALL BE 16 INCH OCTAGONAL PRECAST CONCRETE AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE. ALL PILING IN INTERIOR BENTS SHALL BE 16 INCH OCTAGONAL PRECAST CONCRETE AND SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE AS SHOWN ON THE LAYOUT.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1972 AND APPLICABLE SPECIAL PROVISIONS.

LIVE LOADING: HS20.

METHOD OF DESIGN: SERVICE LOAD.

UNIT STRESSES: f_c = COMPRESSIVE STRENGTH OF CLASS "S" CONCRETE 3,500 PSI
 f_y = YIELD STRENGTH OF REINFORCING STEEL 60,000 PSI

DETAILS OF STANDARD PILE BENTS

30'-0" R.C. SLAB SPAN

30'-0" CLEAR ROADWAY

CONCRETE PARAPET RAILING

ROUTE 160 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: D.H.P. DATE: 4-6-83

CHECKED BY: H.J.D. DATE: 1-8-83

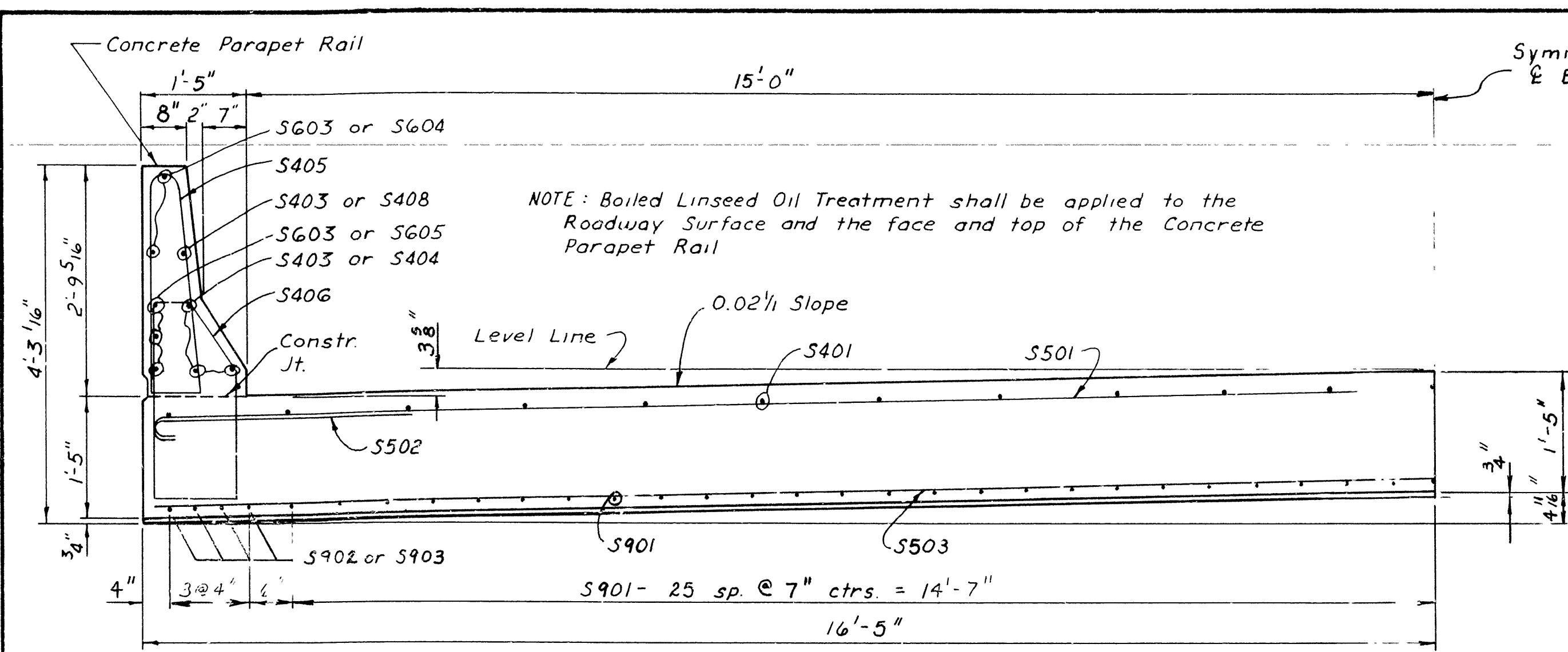
DESIGNED BY: DATE:

SCALE: As Noted

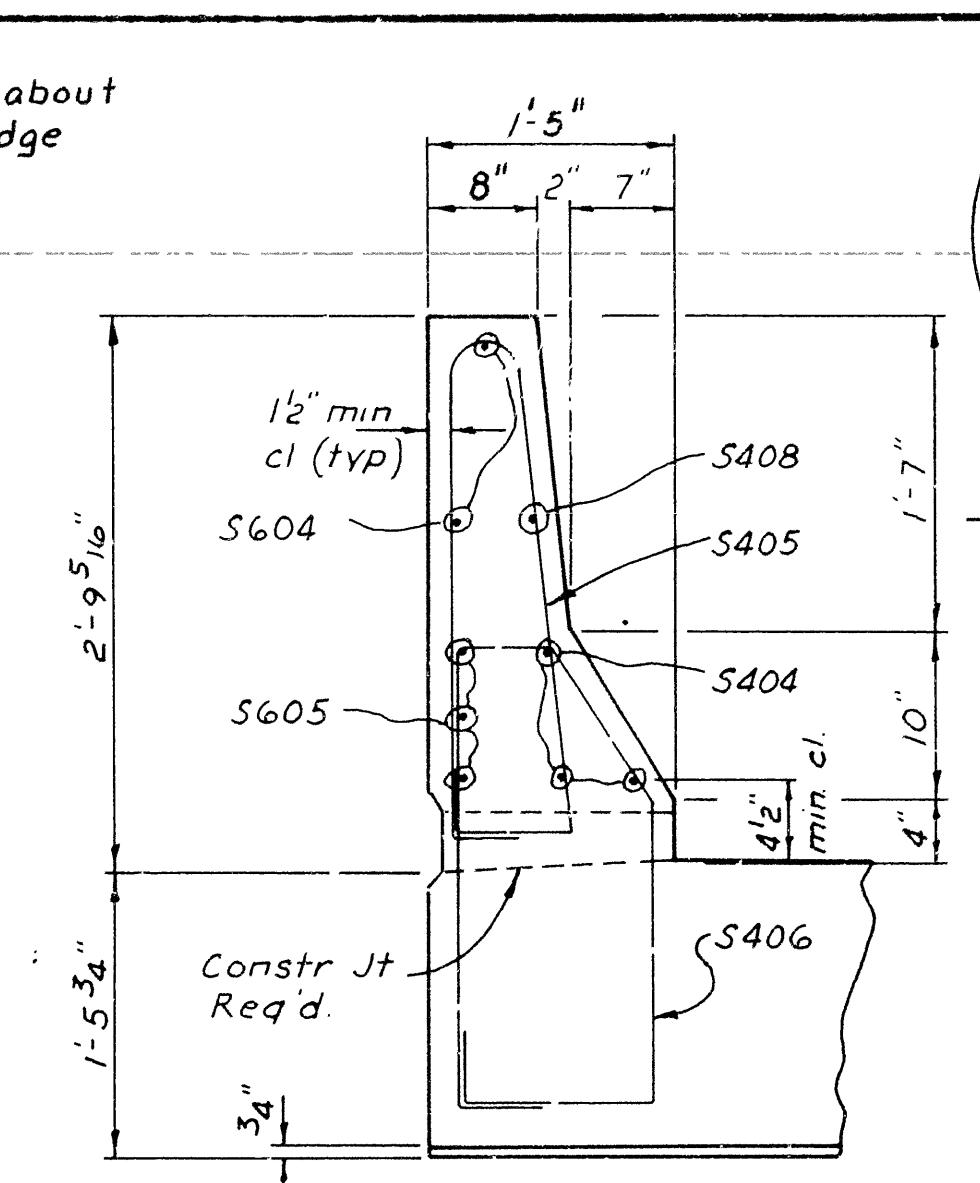
BRIDGE NO. 6007

DRAWING NO. 25863

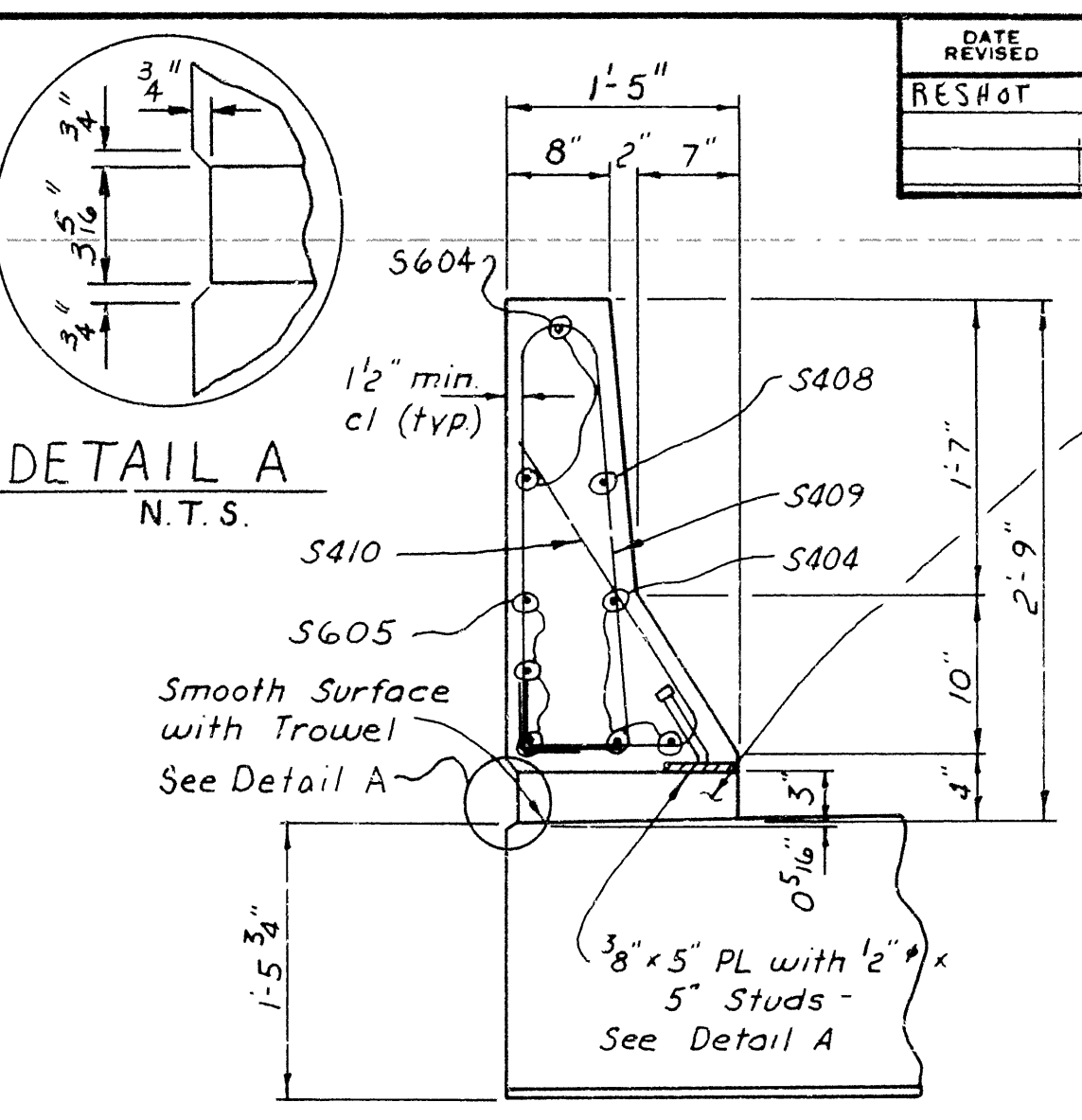
BRIDGE ENGINEER



HALF-SECTION THRU ROADWAY
Scale: 3/4" = 1'-0"



SECTION A-A
Scale: 1" = 1'-0"

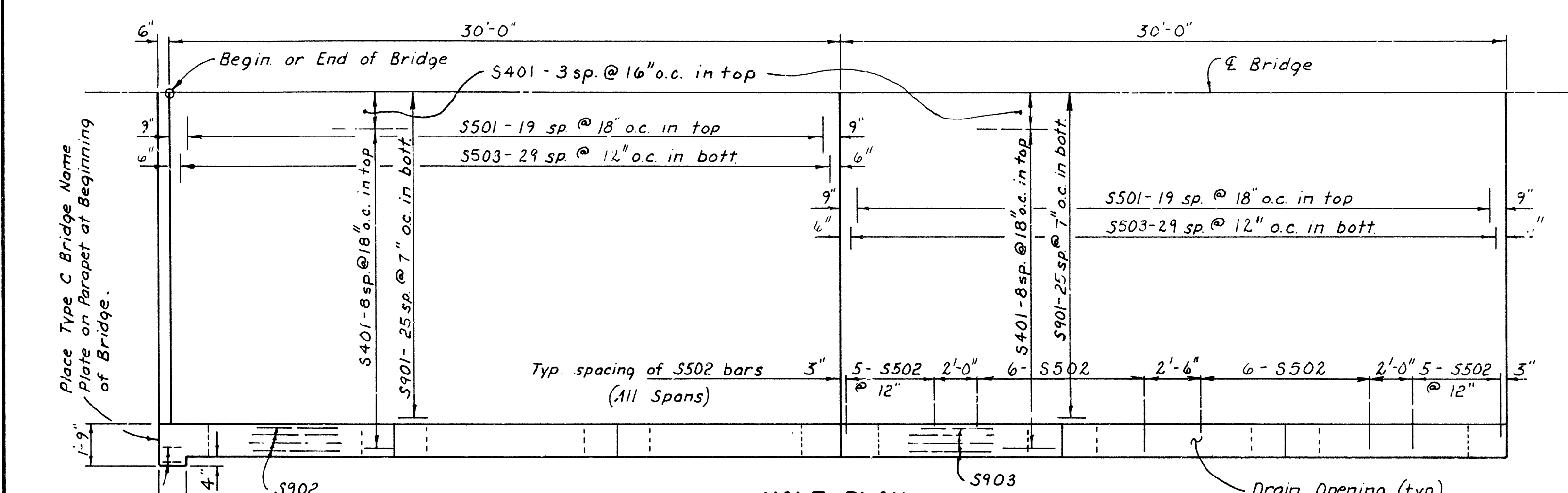


SECTION B-B
Scale: 1" = 1'-0"

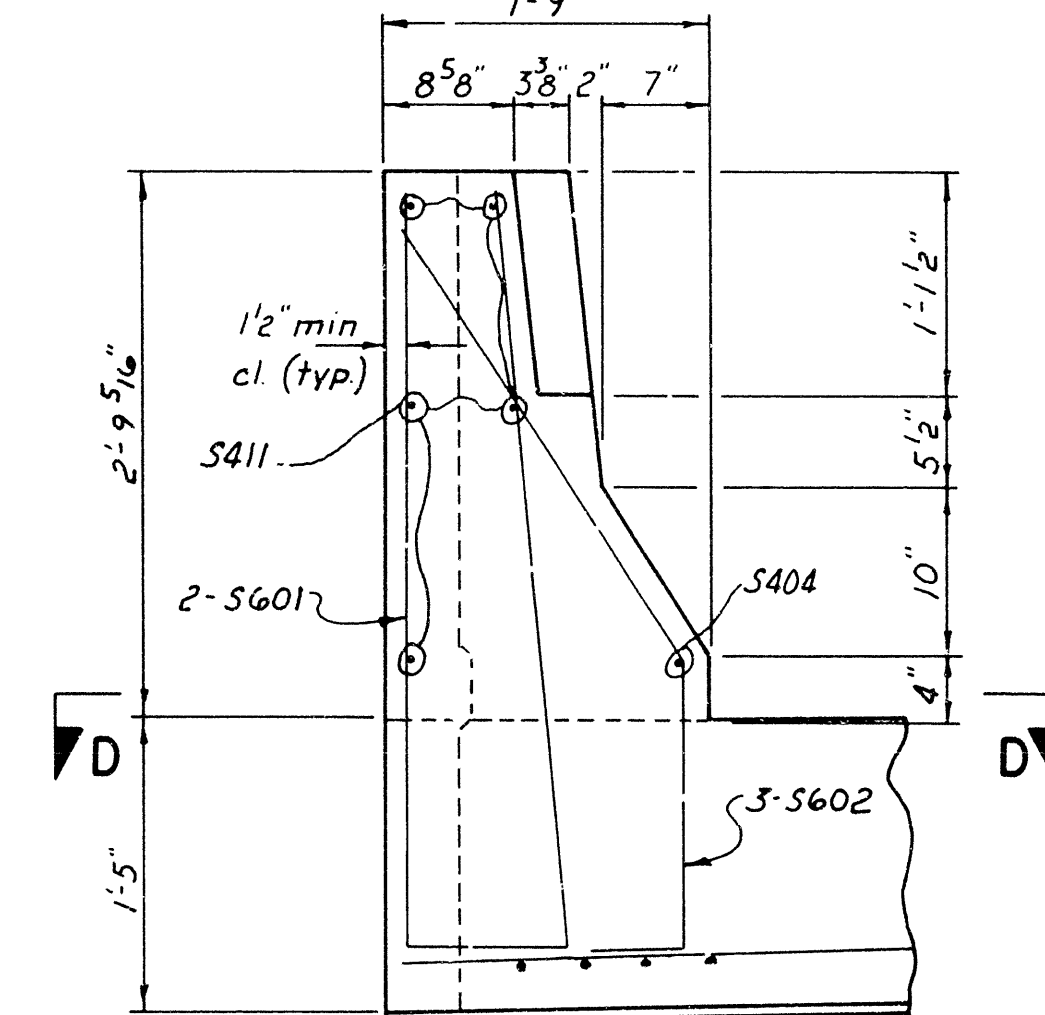
NOTE: Drain shall taper from 3" x 7'-0" at curb to 3 5/16" x 7'-0" at back face of Conc Parapet Rail

NOTE: The surfaces of the 3/8" Plates which will not be in contact with Concrete shall receive two coats of paint in the Shop. These coats shall be those specified as First Shop Coat and Second Field Coat in Subsection 807.59(a), 807.59(c), and SP 807-10.

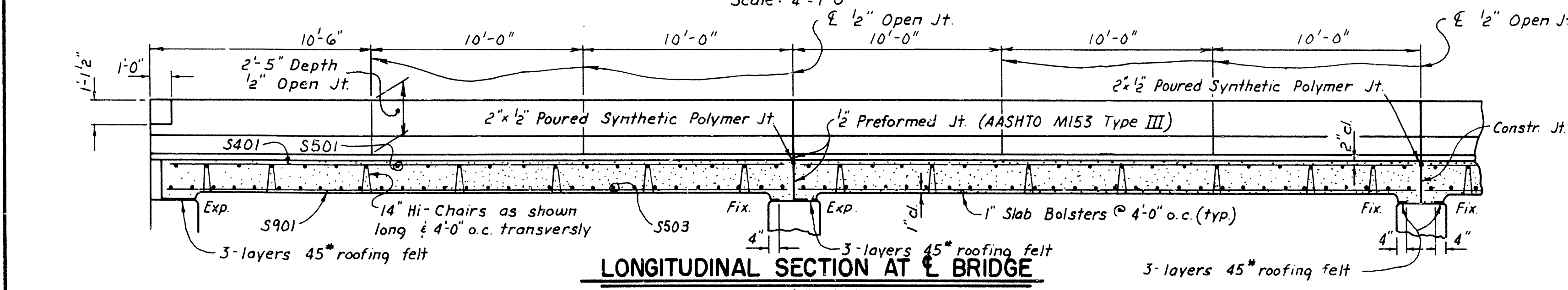
Studs shall be 5" long, granular flux filled, solid fluxed or equal and automatically welded to Plate. Studs and plate to be measured and paid for as Class S(AE) Concrete.



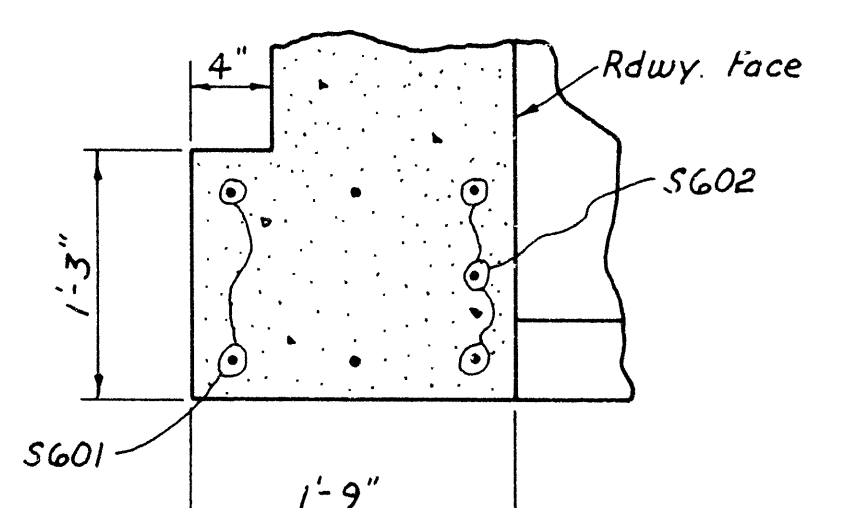
HALF-PLAN
Scale: 1/4" = 1'-0"



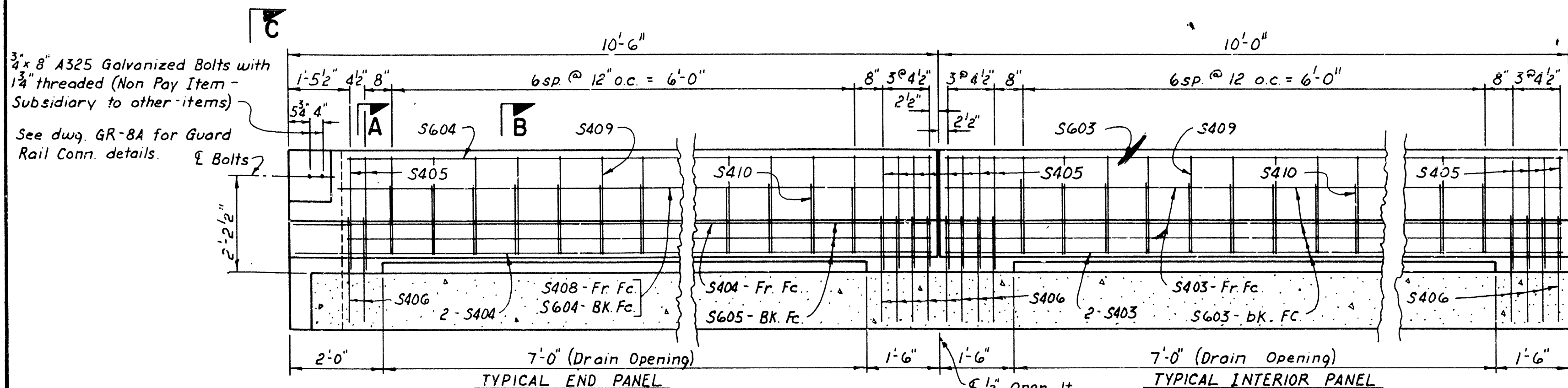
VIEW C-C
Scale: 1" = 1'-0"



LONGITUDINAL SECTION AT BRIDGE
Scale: 1/4" = 1'-0"



SECTION D-D
Scale: 1" = 1'-0"



LONGITUDINAL SECTION AT CURB
N.T.S.

BAR LIST (EACH SPAN)					BENDING DIAGRAMS	
MARK	NO.	REQ'D	LENGTH	PIN DIA		
	END	INT.				
S401	23	23	29'-8"	Str.		
S403	16	24	9'-8"	Str.		
S404	6	-	10'-2"	Str.		
S405	44	48	6'-10"	2"		
S406	44	48	7'-3"	2"		
S503	30	30	32'-4"	Str.		
S408	2	-	9'-2"	Str.		
S409	42	42	6'-4"	2"		
S410	42	42	3'-3"	2"		
S411	10	-	11"	Str.		
S501	20	20	33'-6"	3/4"		
S502	44	44	6'-7"	3/4"		
S601	4	-	8'-1"	3/4"		
S602	6	-	4'-4"	3/4"		
S603	20	30	9'-8"	Str.		
S604	4	-	9'-2"	Str.		
S605	6	-	10'-2"	Str.		
S901	51	51	29'-8"	Str.		
S902	8	-	30'-2"	Str.		
S903	-	8	29'-8"	Str.		

GENERAL NOTES

ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED

BAR SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL"

ROOFING FELT, BITUMINOUS FELT, PREFORMED JOINT, AND SYNTHETIC POLYMER SHALL BE MEASURED AND PAID FOR AS CLASS S(AE) CONCRETE.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 1977 WITH CURRENT INTERIM SPECIFICATIONS.

LIVE LOAD: HS 20

METHOD OF DESIGN: LOAD FACTOR

LOAD DISTRIBUTION TO SLAB: DEAD LOAD: 260 PSF
LIVE LOAD: 0.174 WHEELS/FT OF WIDTH PLUS 30' IMPACT

CONCRETE: ALL CONCRETE SHALL BE CLASS S(AE) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH $f_c = 3500$ PSI

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR A617, GRADE 60 (YIELD STRENGTH = 60,000 PSI).

Note: For Dead Load Camber Diagram See Dwg. 25863

Quantity	End Span	Int. Span
Concrete	57.95	57.4
Reinforcing Steel	18.7	17.3
Structural Steel	282 LBS.	282 LBS.

* Not Paid for Directly, Subsidiary to the Item "Class S Concrete."

DETAILS OF STANDARD 30'-0" R.C. SLAB SPANS
CONC. PARAPET RAIL - 30'-0" CL. RDWY.
ROUTE 160 SEC. 2

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: D.H.P. DATE: 1-17-82
CHECKED BY: HJD DATE: 4-8-83 SCALE: As Noted
DESIGNED BY: STD DATE:

BRIDGE NO. 6007 DRAWING NO. 25864