

CONTRACTOR SHALL DRESS SLOPES AND PLACE RIPRAP IN APPROXIMATE AREAS SHOWN AS DIRECTED BY THE ENGINEER. LIMITS OF RIPRAP SHOWN ARE APPROXIMATE.

CONSTRUCTION OF EACH ABUTMENT SHALL NOT BE STARTED UNTIL THE APPROACH FILL HAS BEEN CONSTRUCTED TO THE TOP OF SUBGRADE.

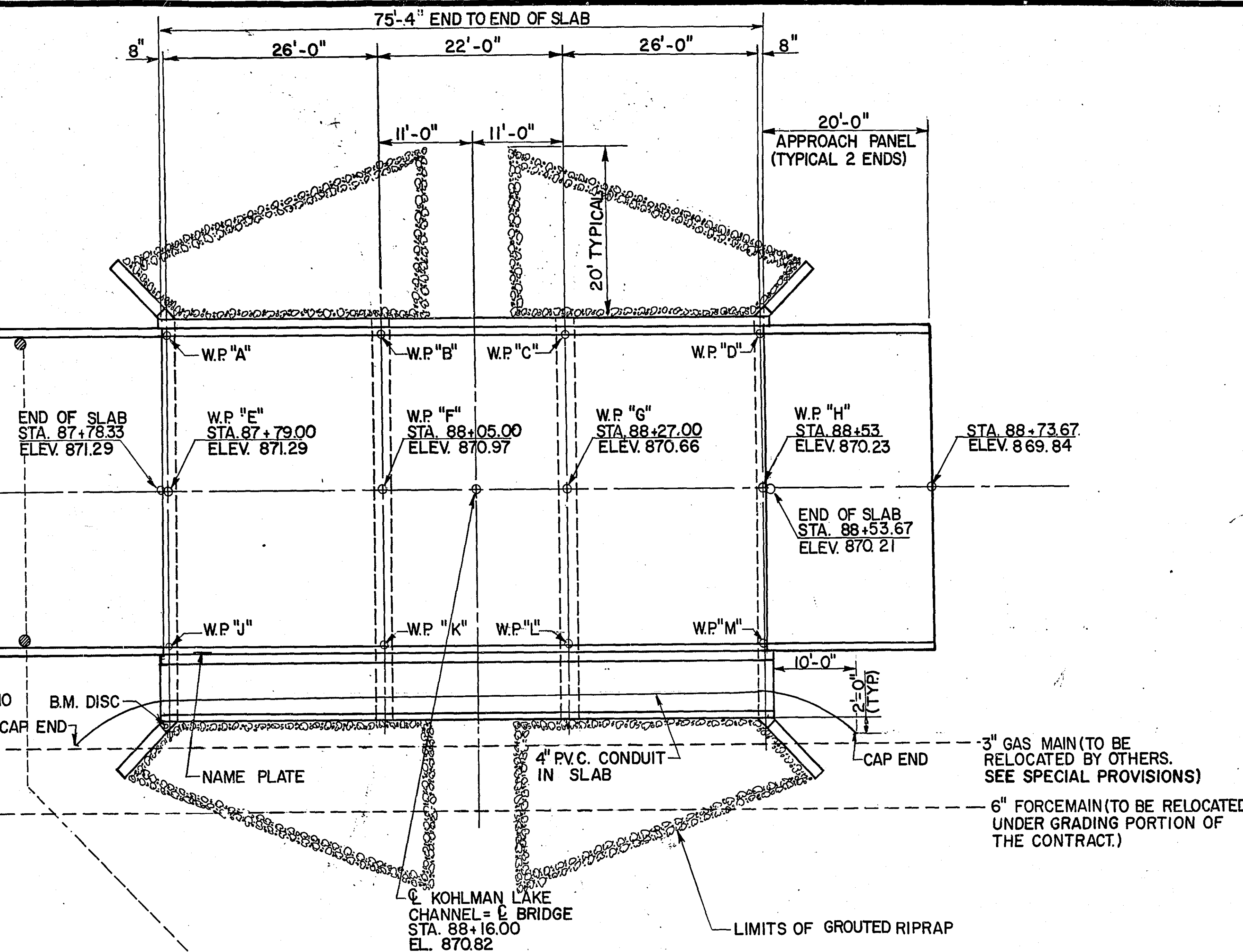
APPROACH FILL TO BE INCLUDED UNDER GRADING PORTION OF CONTRACT.

CL KELLER PKWY @
CL BASELINE (C.S.A.H. 22)

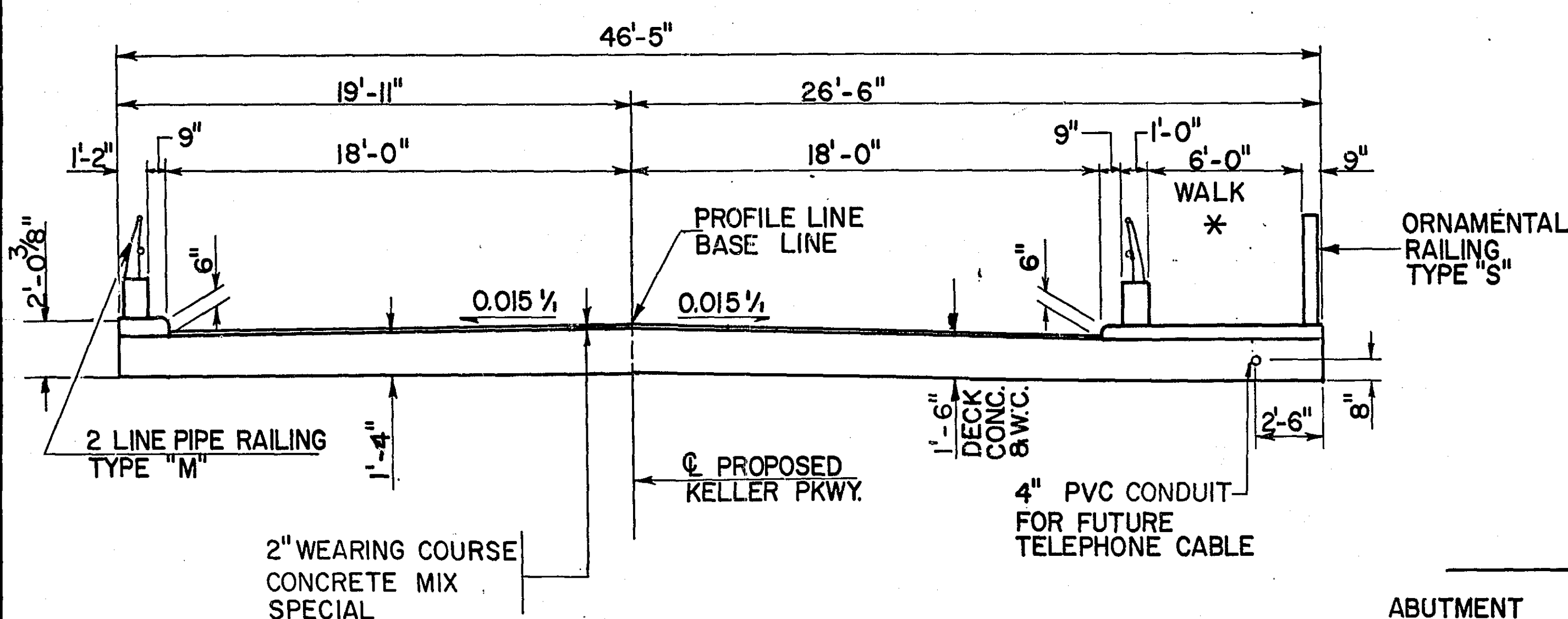
FOR PLACEMENT OF 12"
STORM SEWER, SEE SHT. 10

EXIST. 3" GAS MAIN

EXIST. 6" FORCEMAIN

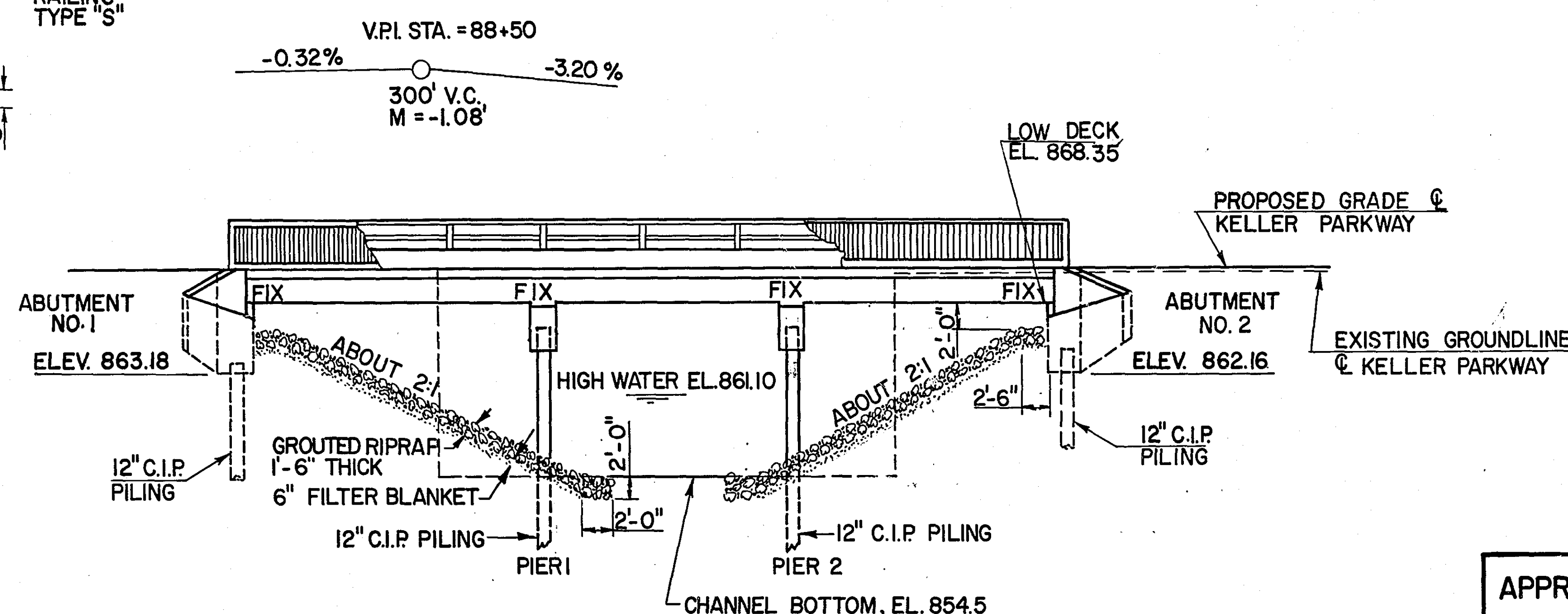


GENERAL PLAN



TYPICAL CROSS SECTION

* FOR SIDEWALK & CURB
CROSS SLOPES REFER
TO SHEET NO. 6



GENERAL ELEVATION

APPROVED:

Kenneth E. Wally
RAMSEY COUNTY ENGINEER

DESIGN DATA

1977 AND INTERIM AASHTO DESIGN SPECIFICATIONS
LOAD FACTOR DESIGN METHOD HS20 LOADING
INCLUDES 17 PSF DEAD LOAD ALLOWANCE
FOR FUTURE WEAR COURSE
MAXIMUM ALLOWABLE DESIGN STRESSES:
REINFORCED CONCRETE:
F_c = 4000 PSI, N = 8 F_y = 60,000 PSI
STRUCTURAL STEEL:
F_y = 36,000 PSI. STRUCTURAL STEEL Mn/DOT 3306
PROJ. ADT 2000 YEAR 2002

DECK AREA 3497 SQ. FT.

LIST OF SHEETS

NO.	DESCRIPTION
1	GENERAL PLAN AND ELEVATION
2	BRIDGE LAYOUT
3	ABUTMENT DETAILS
4	ABUTMENT REINFORCEMENT
5	PIER DETAILS
6	SUPERSTRUCTURE
7	SUPERSTRUCTURE
8	CONCRETE & PIPE RAILING (TYPE "M")
9	ORNAMENTAL RAILING (TYPE "S")
10	APPROACH PANEL
11	DETAILS
12	DETAILS
13	BRIDGE SURVEY
14	BRIDGE SURVEY, PLAN & PROFILE

CONSTRUCTION NOTES

THE 1978 EDITION OF THE MINNESOTA DEPT.
OF TRANSPORTATION "STANDARD SPECIFICATIONS
FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

THE FIRST DIGIT OR THE FIRST TWO DIGITS
OF EACH BAR MARK INDICATE THE BAR SIZE.

BAR MARK WITH SUFFIX "E" TO BE EPOXY
COATED.

B.M. ELEV. 967.88 (MSL 1929 ADJ.)
NAIL IN POWER POLE, N.E. CORNER KOHLMAN
LANE & KELLER PARKWAY.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY
REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA.

SIGNED: *David H. Bahr*
DATE: 10/27/77 REG. NO. 7982

KELLER PKWY (C.S.A.H. 22) RAMSEY COUNTY
STATE OF MINNESOTA

BRIDGE NO. 62537
KELLER PARKWAY (C.S.A.H. 22)
OVER KOHLMAN LAKE OUTLET
RAMSEY COUNTY PROJECT
1/4 MILE NORTH OF THE INTERSECTION OF
COUNTY ROAD "C" (C.S.A.H. 23) AND
KELLER PARKWAY (C.S.A.H. 22)
IN RAMSEY COUNTY, MINNESOTA
26-22-26 CONT. CONCRETE SLAB SPAN
36'-0" ROADWAY 6' SIDEWALK
0°-00' SKEW 2'-6" CURBS
IDENTIFICATION NO. 209

GENERAL PLAN AND ELEVATION
SEC. 4 T29 N R22 W
CITY OF MAPLEWOOD RAMSEY COUNTY

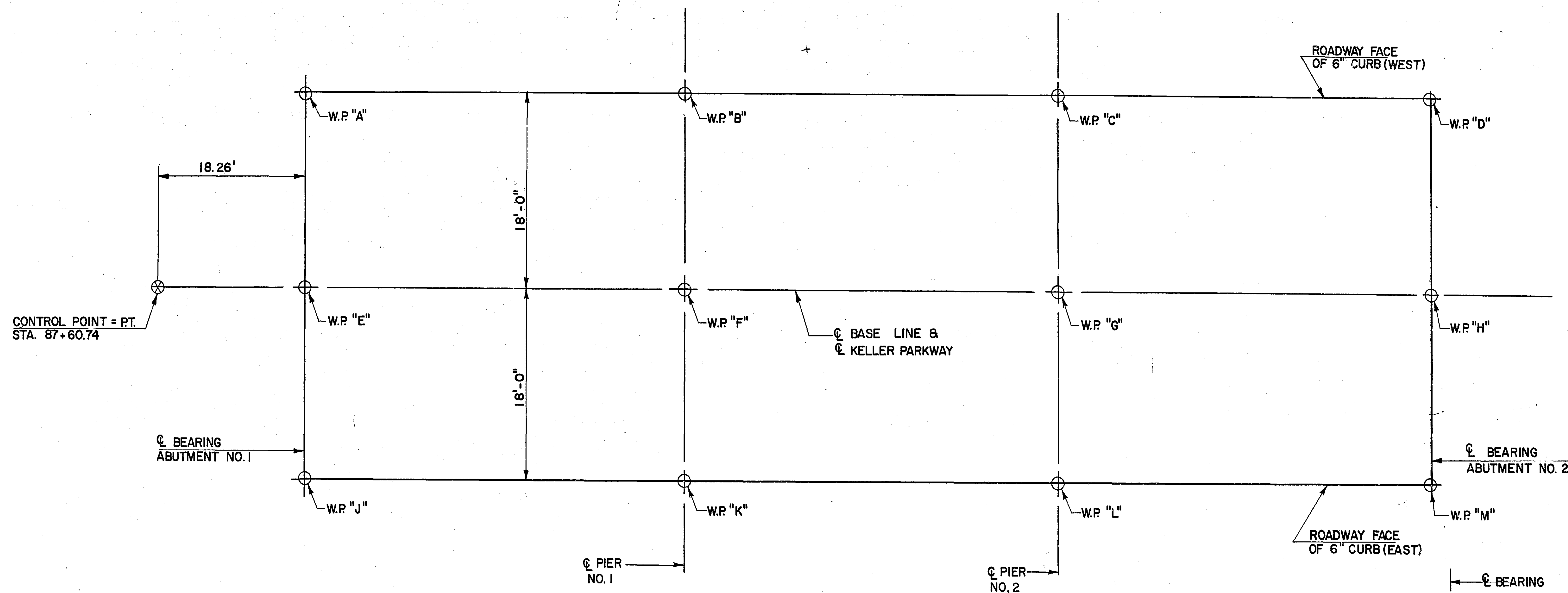
APPROVED: *2-5-82*
R. E. Bahr
R.E. Bahr
R.E. Bahr
R.E. Bahr

DES. CLS DR. JLP
CHK. DHB CHK. CLS 62537

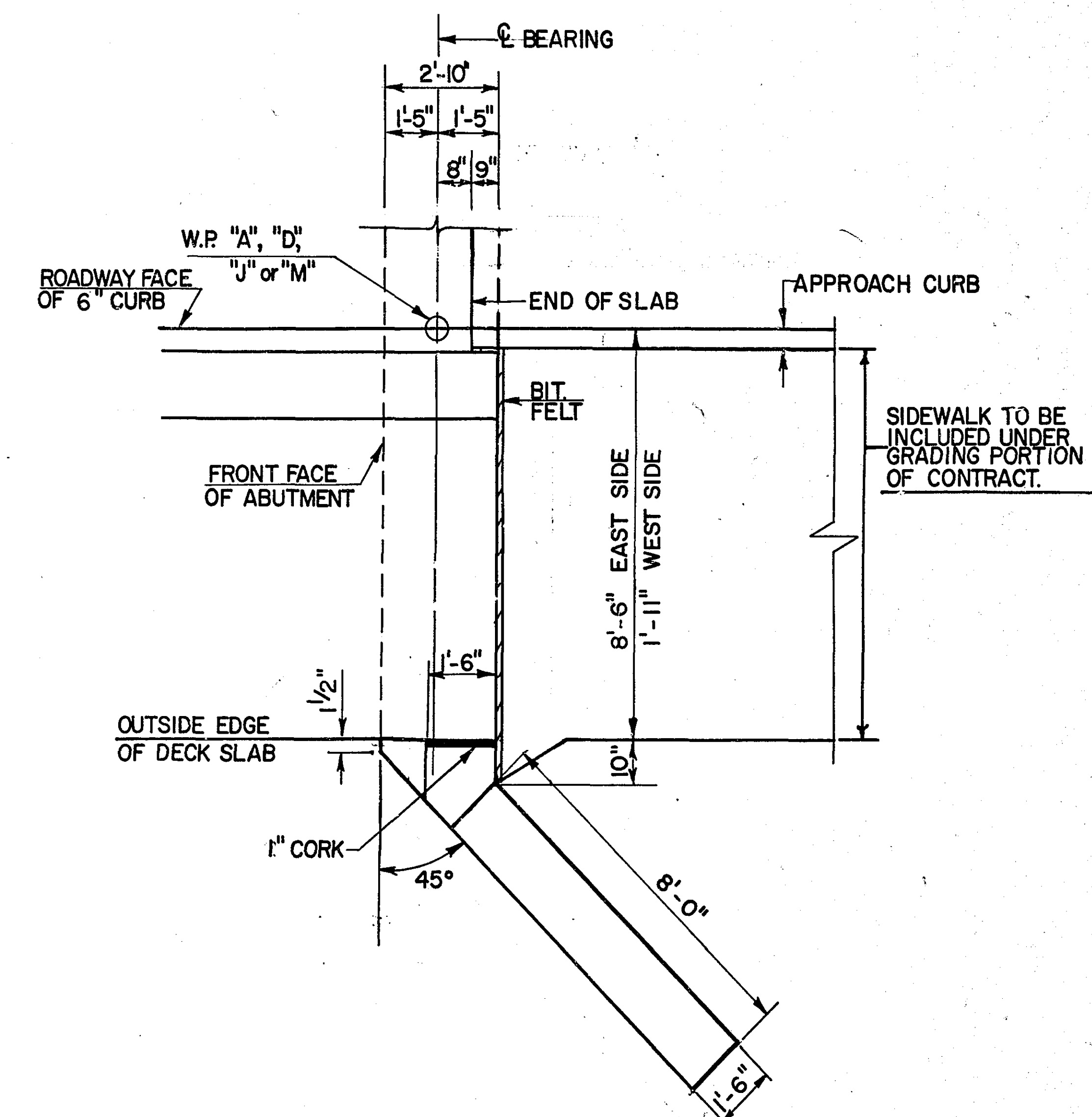
SCHEDULE OF QUANTITIES FOR ENTIRE BRIDGE

(P) DENOTES PLAN QUANTITY PER ITEM SPEC. 1901

ITEM NO.	301.601	401.605	2021.501	401.601	2545.509	401.605	401.605	2401.501	401.605	2401.541	2402.541	2402.583	2402.585	401.606		2452.507	2452.508	2452.519	2452.519	2511.503	2511.504
ITEM	BRIDGE APPROACH PANELS	WEARING COURSE CONC. MIX SPECIAL	MOBILIZATION	STRUCTURE EXCAVATION	CONDUIT SYSTEM (TELEPHONE)	BRIDGE SLAB CONCRETE MIX NO. 3X33	SIDEWALK CONCRETE MIX NO. 3X46	CONCRETE MIX NO. 3Y43	RAISED CURB CONCRETE MIX NO. 3X46	REINFORCEMENT BARS	EXPANSION JOINT DEVICES TYPE 1	ORNAMENTAL METAL RAILING (TYPE S)	PIPE RAILING (TYPE M)	TYPE "M" RAILING CONCRETE MIX NO. 3X46		CAST IN PLACE CONCRETE PILING DELIVERED	CAST IN PLACE CONCRETE PILING DRIVEN	C.I.P. CONC. TEST PILES 90 FEET LONG	C.I.P. CONC. TEST PILES 85 FEET LONG	GRouted RIP RAP	FILTER BLANKET, TYPE 1
UNIT	LUMP SUM	SQ. FT.	LUMP SUM	LUMP SUM	LUMP SUM	SQ. FT.	SQ. FT.	CU. YD	SQ. FT.	POUND	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.		LIN. FT.	LIN. FT.	EACH	EACH	CU. YD.	CU. YD.
QUANTITY	1	2712 (P)	1	1	1	3510 (P)	653 (P)	117 (P)	147 (P)	40305 (P)	75 (P)	77 (P)	154 (P)	154 (P)		2170	2170	2	2	300	100



WORKING POINT LAYOUT

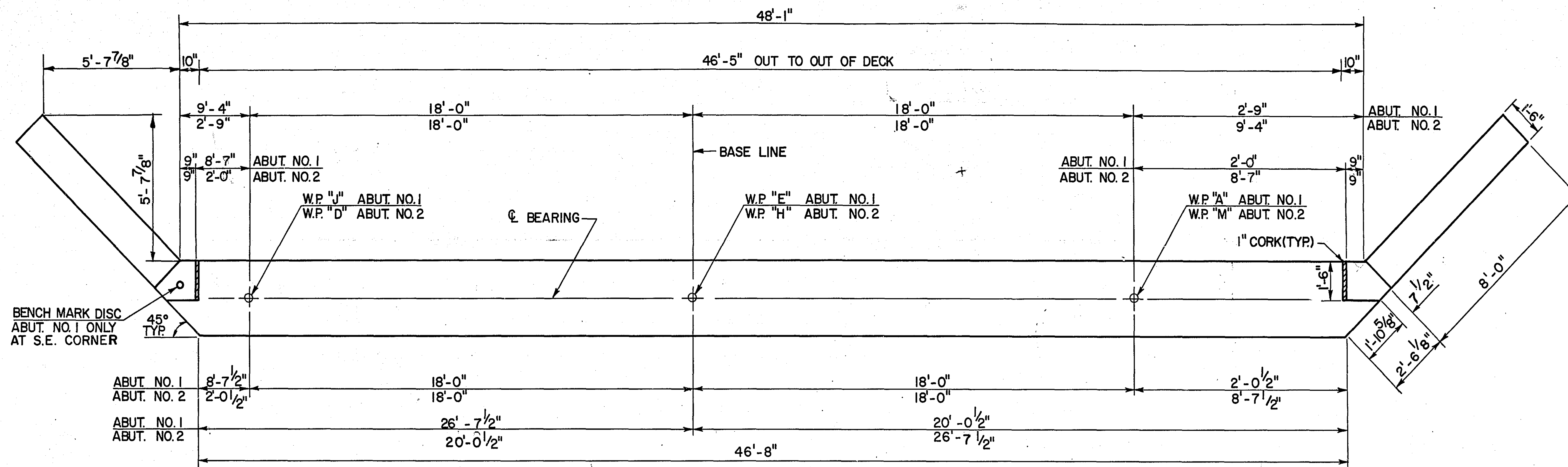


TYPICAL CORNER LAYOUT

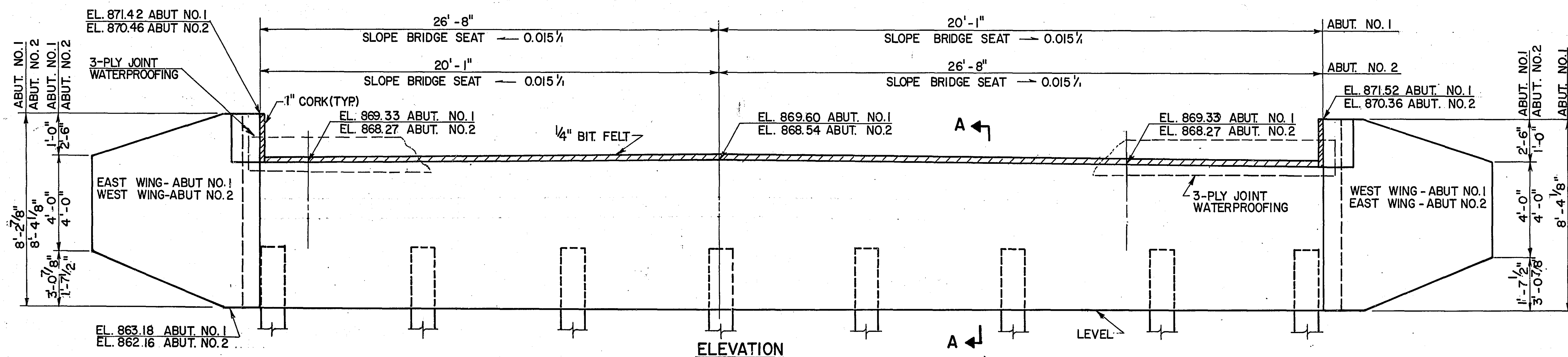
DIMENSIONS BETWEEN WORKING POINTS														ELEVATIONS			PT.
PT.	STATION	A	B	C	D	E	F	G	H	J	K	L	M	TOP OF SLAB	TOP OF SLAB TO BRG. SEAT	BRIDGE SEAT ELEV.	
A	87+79.00													871.02	1.69	869.33	A
B	88+05.00	26.00												870.70	1.69	869.01	B
C	88+27.00	48.00	22.00											870.39	1.69	868.70	C
D	88+53.00	74.00	48.00	26.00										869.96	1.69	868.27	D
E	87+79.00	18.00												871.29	1.69	869.60	E
F	88+05.00	31.62	18.00			26.00								870.97	1.69	869.28	F
G	88+27.00		28.43	18.00		48.00	22.00							870.66	1.69	868.97	G
H	88+53.00			31.62	18.00		48.00	26.00						870.23	1.69	868.54	H
J	87+79.00		44.41	60.00		18.00								871.02	1.69	869.33	J
K	88+05.00	44.41		42.19	60.00	31.62	18.00			26.00				870.70	1.69	869.01	K
L	88+27.00	60.00	42.19		44.41		28.43	18.00		48.00	22.00			870.39	1.69	868.70	L
M	88+53.00		60.00	44.41				31.62	18.00		48.00	26.00		869.96	1.69	868.27	M

TITLE: BRIDGE LAYOUT	DES: CLS	DR: JLP	APPROVED:	Bridge No. 62537
	CHK: DHB	CHK: CLS	2-5-82	
	Sheet No. 2 of 14 Sheets			

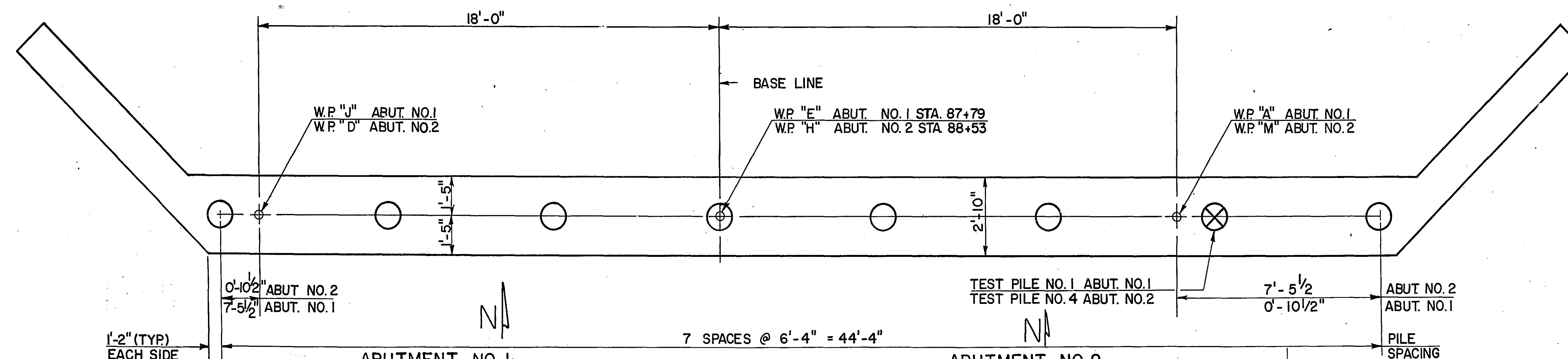
S.P. 62-622-02



PLAN



ELEVATION



ABUTMENT NO. 1		
PILE NO.	FEET BELOW CUTOFF	BEARING IN TONS
1	56.6	66
2	56.0	66
3	60.8	63
4	56.6	63
5	60.1	63
6	55.9	62
7	58.1	63
T.P.1	65.0	61.3

PILE PLAN

ABUTMENT NO. 2		
PILE NO.	FEET BELOW CUTOFF	BEARING IN TONS
1	71.3	62
2	68.3	60
3	67.5	60
4	66.7	60
5	68.1	60
6	67.1	60
7	64.5	63
T.P.4	99.0	44.1

TITLE:

ABUTMENT DETAILS

DES: JDS
CHK: DHB

DR: JLP
CHK: JDS

S.P. 62-622-02

Sheet No. 3 of 14 Sheets

Bridge No.
62537

SUMMARY OF QUANTITIES FOR TWO ABUTS.

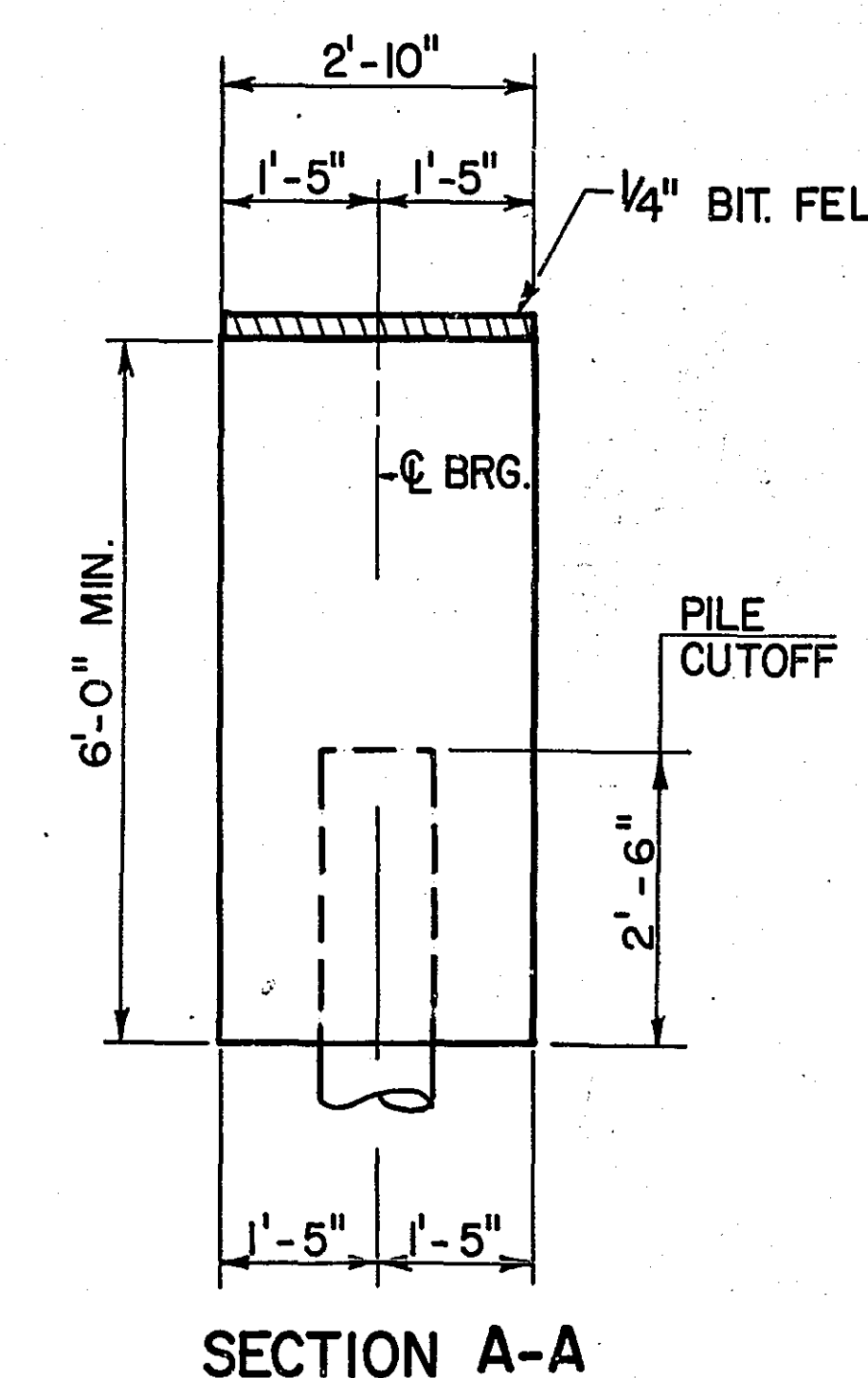
CONCRETE MIX NO. 3Y43	76 C.Y.
REINFORCEMENT BARS	5670 LBS.
12" Ø CAST-IN-PLACE PILING DELIVERED	1050 L.F.
12" Ø CAST-IN-PLACE PILING DRIVEN	1050 L.F.
12" Ø CAST-IN-PLACE TEST PILE 85 FT. LONG	2 EA.
DISC, BENCH MARK	1 UNIT
JOINT FILLER (SEE SHEET 5 FOR SCHEDULE)	
3-PLY JOINT WATERPROOFING PER SPEC2481	100 L.F.

- DOES NOT INCLUDE TEST PILES.
- COUNTY WILL FURNISH DISC. PAYMENT FOR PLACING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS. SEE STD. PLATE NO. 9301 FOR PLACING.
- TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

PILE NOTES

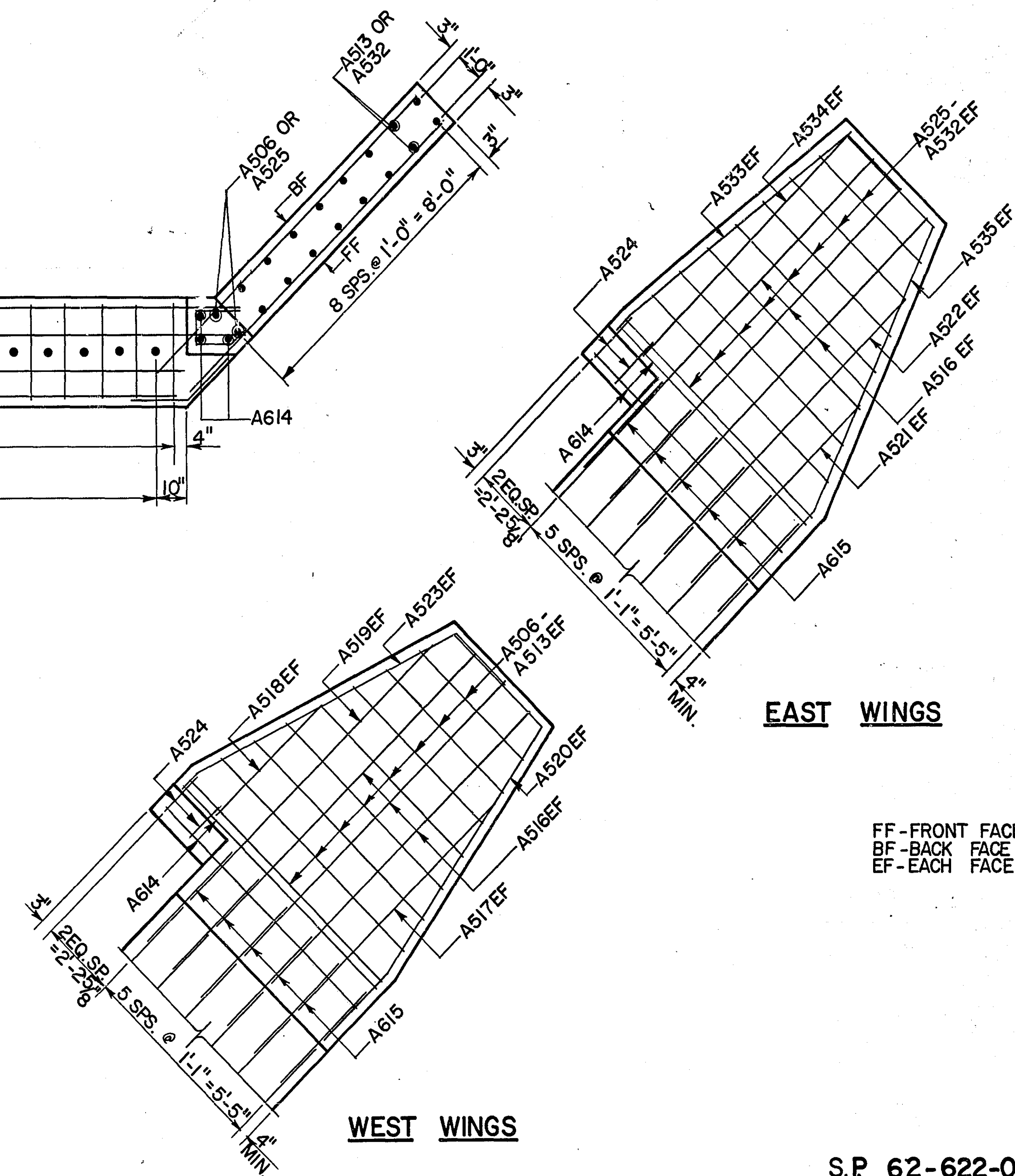
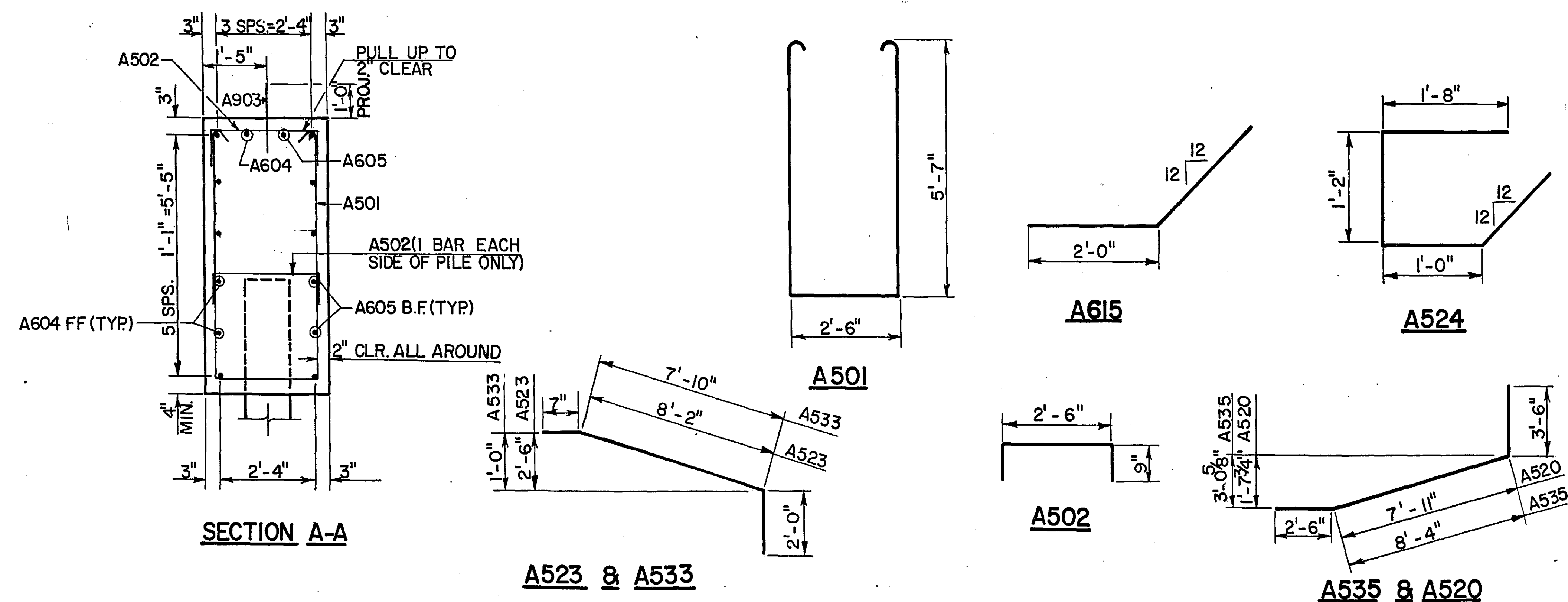
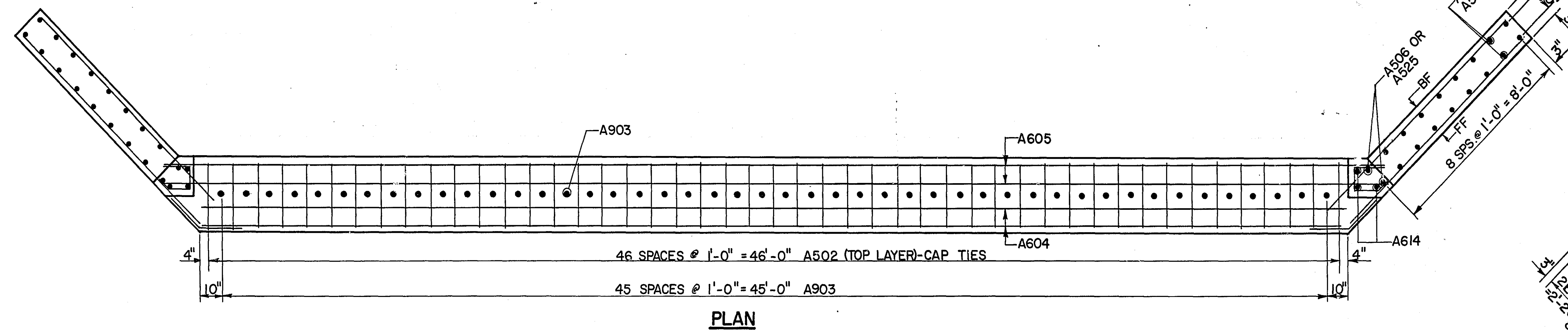
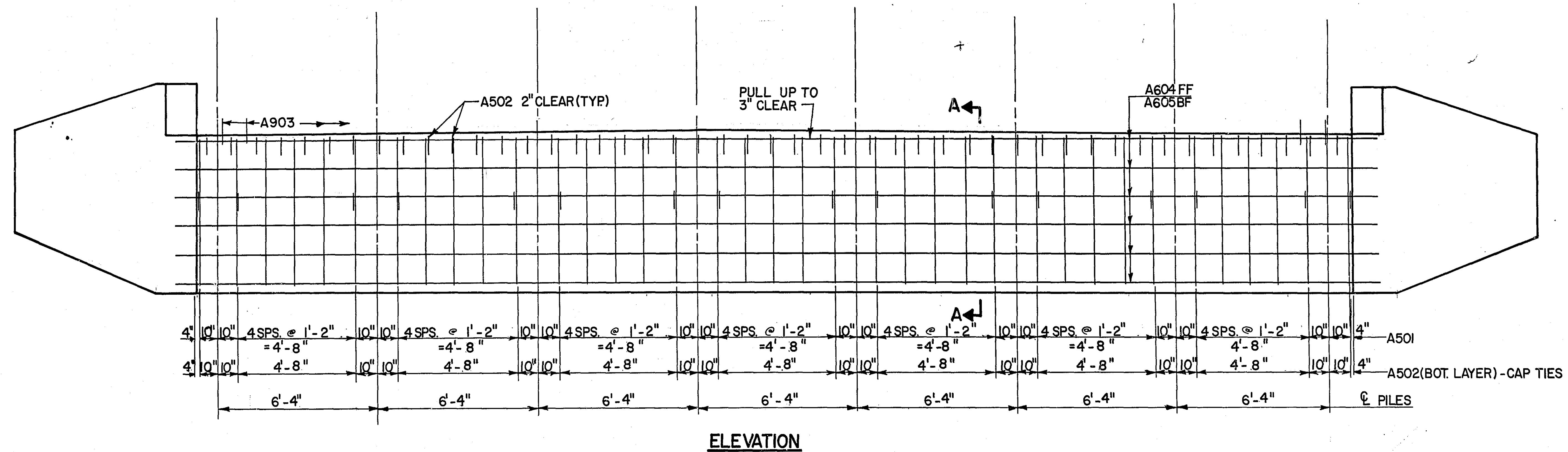
- 2 - 12" Ø CAST IN PLACE CONCRETE TEST PILE 85' LONG.
- 14 - 12" Ø CAST IN PLACE CONCRETE PILE ESTIMATED LENGTH 75' LONG.
- 16 - 12" Ø CAST IN PLACE CONCRETE PILE FOR 2 ABUTMENTS. PILE SPACING SHOWN IS AT BOTTOM OF FOOTING.

COMPUTED PILE LOADS		TON/PILE
DEAD LOAD		21.4
LIVE LOAD		7.3
DESIGN LOAD		28.7

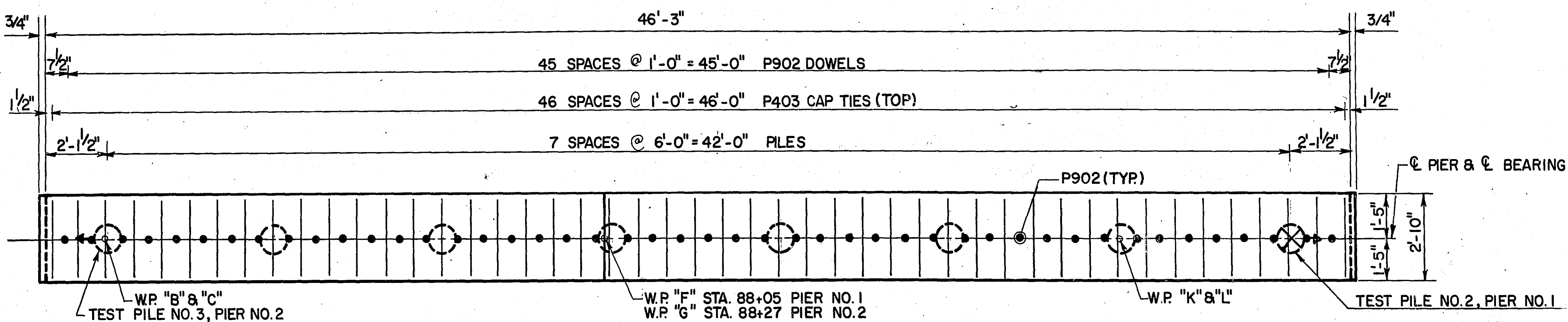


SECTION A-A

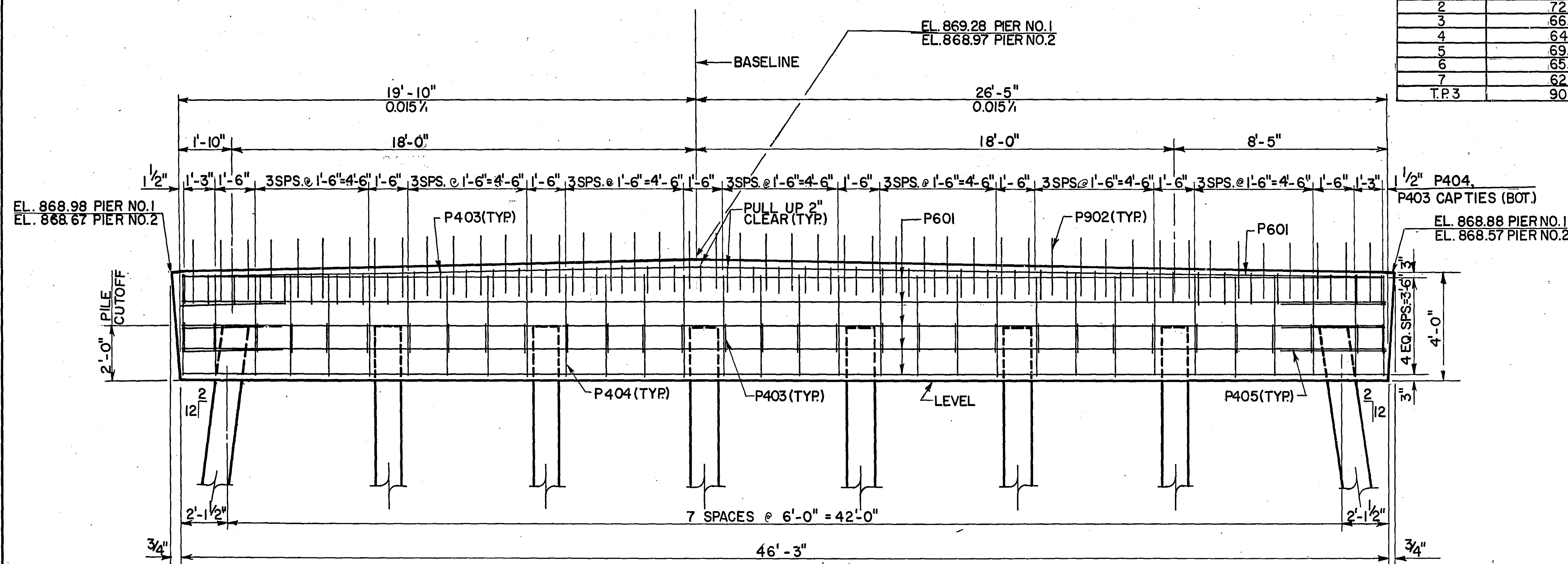
BILL OF REINFORCEMENT - 2 ABUTS.					
BAR	NO.	LENGTH	SHAPE	LOCATION	
A501	74	14'-7"	BENT	STIRRUPS	
A502	126	4'-0"	BENT	CAP TIES	
A903	92	2'-0"	STR.T.	DOWELS	
A604	14	46'-6"	STR.T.	ABUTMENT LONG.	
A605	14	49'-0"	STR.T.	ABUTMENT LONG.	
A506	4	7'-9"	STR.T.	WEST WINGWALLS	
A507	4	7'-5"	STR.T.	WEST WINGWALLS	
A508	4	6'-11"	STR.T.	WEST WINGWALLS	
A509	4	6'-4"	STR.T.	WEST WINGWALLS	
A510	4	5'-10"	STR.T.	WEST WINGWALLS	
A511	4	5'-4"	STR.T.	WEST WINGWALLS	
A512	4	4'-10"	STR.T.	WEST WINGWALLS	
A513	4	4'-4"	STR.T.	WEST WINGWALLS	
A614	12	7'-9"	STR.T.	WINGWALLS	
A615	24	4'-0"	BENT	WINGWALLS	
A516	24	10'-4"	STR.T.	WINGWALLS	
A517	4	8'-6"	STR.T.	WEST WINGWALLS	
A518	4	4'-2"	STR.T.	WEST WINGWALLS	
A519	4	9'-6"	STR.T.	WEST WINGWALLS	
A520	4	13'-11"	BENT	WEST WINGWALLS	
A521	4	5'-6"	STR.T.	EAST WINGWALLS	
A522	4	8'-6"	STR.T.	EAST WINGWALLS	
A523	4	10'-9"	BENT	WEST WINGWALLS	
A524	8	4'-10"	BENT	WINGWALLS	
A525	4	7'-9"	STR.T.	EAST WINGWALLS	
A526	4	7'-3"	STR.T.	EAST WINGWALLS	
A527	4	6'-9"	STR.T.	EAST WINGWALLS	
A528	4	6'-3"	STR.T.	EAST WINGWALLS	
A529	4	5'-9"	STR.T.	EAST WINGWALLS	
A530	4	5'-2"	STR.T.	EAST WINGWALLS	
A531	4	4'-8"	STR.T.	EAST WINGWALLS	
A532	4	4'-2"	STR.T.	EAST WINGWALLS	
A533	4	10'-5"	BENT	EAST WINGWALLS	
A534	4	8'-3"	STR.T.	EAST WINGWALLS	
A535	4	14'-4"	BENT	EAST WINGWALLS	



TITLE: ABUTMENT REINFORCEMENT		DES: JDS	DR: JLP	APPROVED: 2-5-92	Bridge No. 62537
		CHK: DHB	CHK: JDS		
Sheet No. 4 of 14 Sheets				S.P 62-622-02	



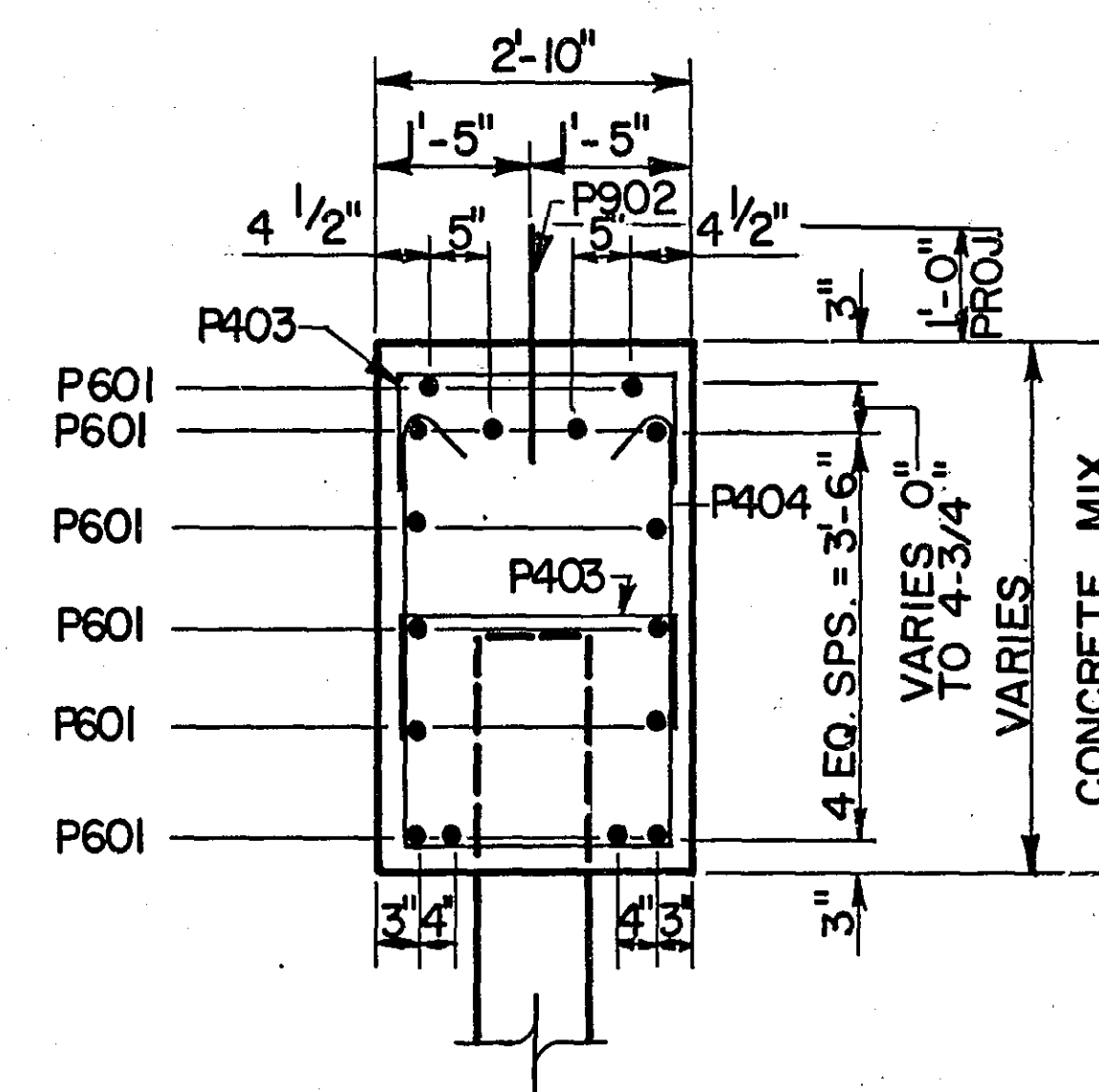
CAP PLAN



ELEVATION

PIER NO.2

PILE NO.	FEET BELOW CUTOFF	BEARING IN TONS
1	80.3	60
2	72.4	61
3	66.9	62
4	64.2	62
5	69.1	62
6	65.7	62
7	62.7	62
T.P.3	90.0	59.33



SECTION

LIST OF PREFORMED CORK JOINT FILLER

4-1" X 1'-6" X 2'-1"	ABUTMENT WINGWALLS
10-1" X 1'-6" X 1'-0"	RAILING DEFLECTION JOINTS

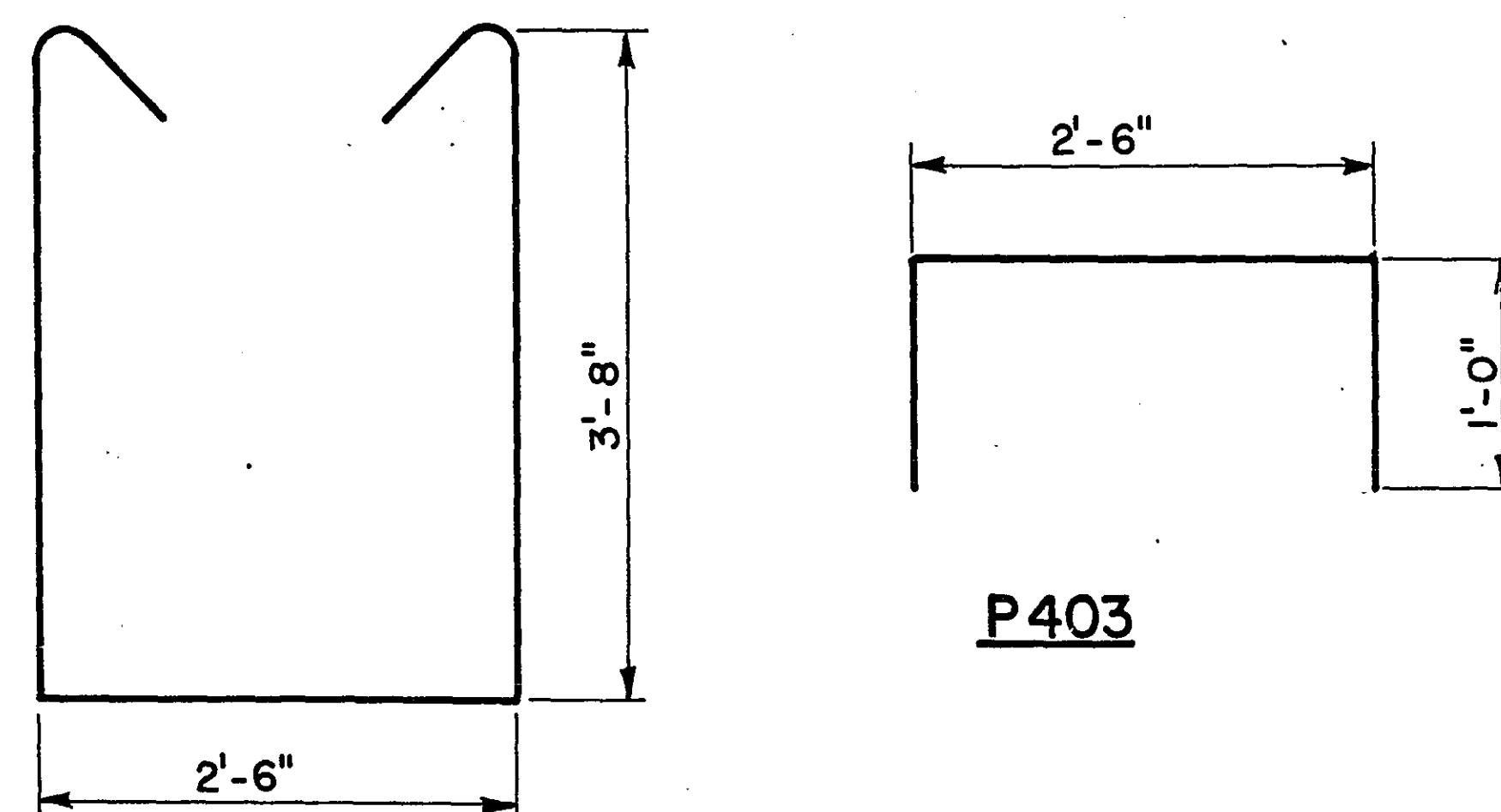
LIST OF POLYSTYRENE

2-1" X 37'-6" X 1'-6"	EXPANSION DEVICES (CUT TO FIT)
-----------------------	--------------------------------

LIST OF PREFORMED BIT. FELT

2-1/4" X 46'-8" X 2'-10"	ABUTMENT SEATS
2-1/4" X 46'-6" X 2'-10"	PIERS

- ① SEE SPECIAL PROVISIONS
② TYPE A POLYSTYRENE



P404

P403

P405

NOTE: ALL HORIZONTAL GEOMETRIC DIMENSIONS AND REINFORCEMENT SPACING TAKEN ALONG BOTTOM OF CAP

PIER NO.1

PILE NO.	FT. BELOW CUTOFF	BEARING IN TONS
1	58.5	62
2	58.3	61
3	58.3	61
4	57.8	61
5	60.4	61
6	60.3	61
7	57.8	62
TP2	90.0	61.6

BILL OF REINFORCEMENT 2 PIERS

BAR	NO.	LENGTH	SHAPE	LOCATION
P601	32	45'-11"	STR'T.	PIER LONGITUDINAL
P902	92	2'-0"	STR'T.	DOWELS
P403	158	4'-6"	BENT	CAP TIES
P404	64	10'-7"	BENT	STIRRUPS
P405	12	10'-6"	BENT	END TIES

SUMMARY OF QUANTITIES 2 PIERS

CONC. MIX NO. 3Y43	41 CU. YD.
REINFORCEMENT BARS	3850 POUNDS
② 12" Ø C.I.P. PILING DELIVERED	1120 LIN. FT.
② 12" Ø C.I.P. PILING DRIVEN	1120 LIN. FT.
12" Ø C.I.P. TEST PILE 90 FT LONG	2 EACH
① BIT. FELT JOINT FILLER- SEE SCHEDULE BELOW	

- ① TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
② DOES NOT INCLUDE TEST PILES

COMPUTED PILE LOADS TONS/PILE

DEAD LOAD	25.4
LIVE LOAD	10.9
DESIGN LOAD	36.3

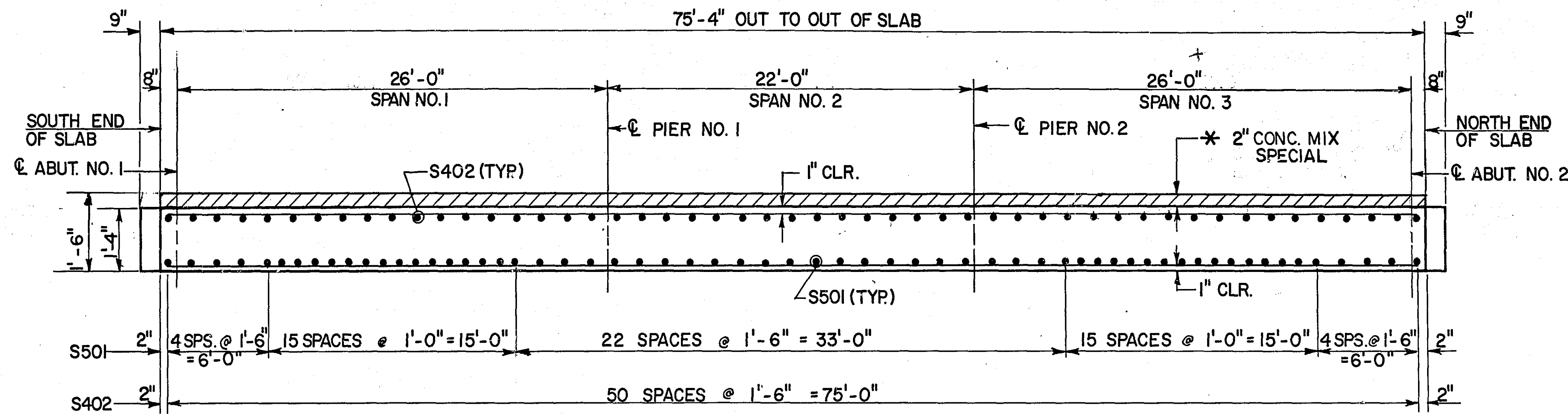
PILE NOTES

- 2 12" Ø CAST IN PLACE CONC. TEST PILE 90' LONG.
14 12" Ø CAST IN PLACE CONC. PILE EST. LENGTH 80'
16 12" Ø CAST IN PLACE CONC. PILES REQ. FOR 2 PIERS

PILES MARKED ○ TO BE BATTERED 2" PER FOOT IN THE DIRECTION SHOWN.
FOR PILE SPLICES SEE DETAIL B201
PILE SPACING SHOWN IS AT BOTTOM OF PILE CAP.

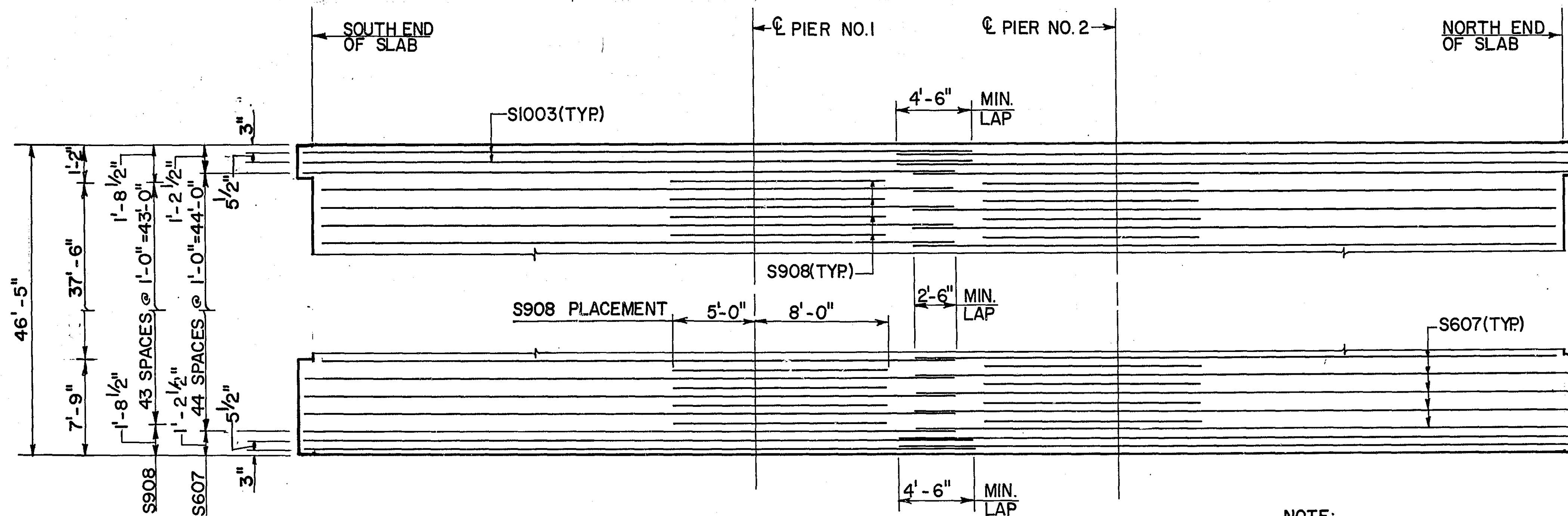
S.P 62-622-02

TITLE:	DES: JDS	DR: JLP	APPROVED:	Bridge No.
PIER DETAILS	CHK: DHB	CHK: JDS	2-5-82	62537
	Sheet No. 5	of 14	Sheets	



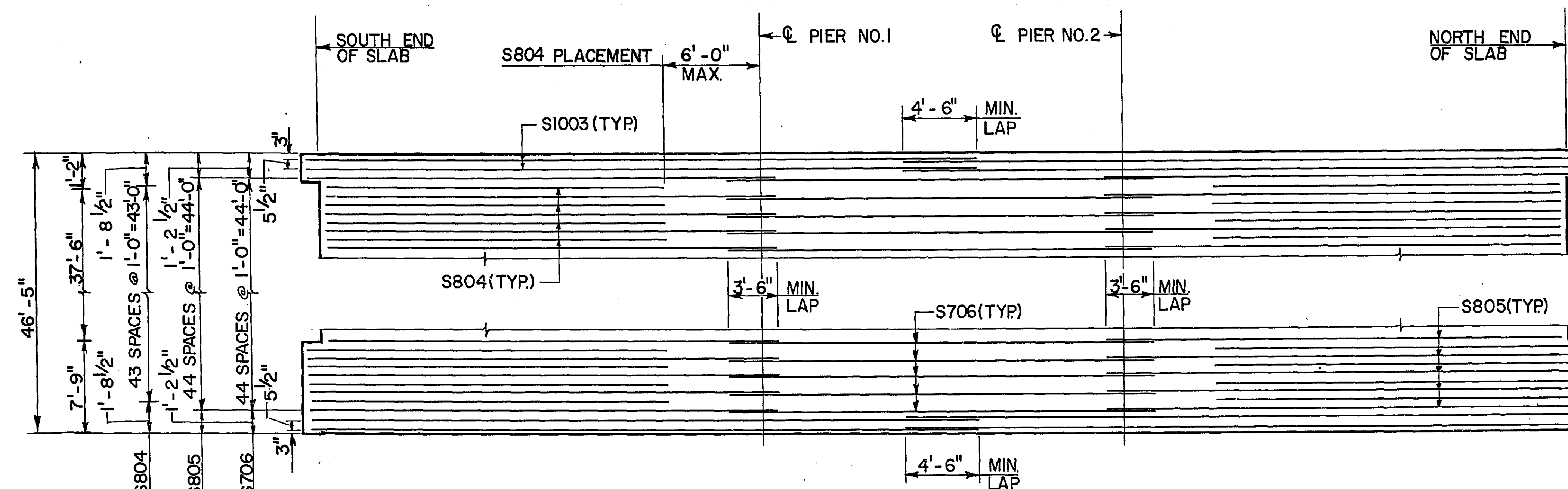
LONGITUDINAL SECTION

* SEE SPECIAL PROVISIONS



REINFORCEMENT TOP OF SLAB

NOTE: ALL REINFORCEMENT IS PLACED SYMMETRICALLY EXCEPT AS SHOWN OR NOTED.



REINFORCEMENT BOTTOM OF SLAB

APPROXIMATE QUANTITIES

SIDEWALK	17 CY.
CURB	4 CY.
SLAB	175 CY.
RAIL BASE	9 CY.
OVERLAY	17 CY.

BILL OF REINFORCEMENT

MARK	BAR	LENGTH	SHAPE	LOCATION
S501	61	46'-1"	STR'T.	BOT. TRANS.
S402	51	46'-1"	STR'T.	TOP TRANS.
S1003	16	40'-6"	STR'T.	OUTSIDE LONG.
S804	88	21'-3"	STR'T.	LONG. SPAN 1&3 BOT.
S805	90	28'-3"	STR'T.	LONG. SPAN 1&3 BOT.
S706	45	27'-0"	STR'T.	LONG. SPAN 2 BOTTOM
S607	90	39'-6"	STR'T.	LONG. TOP SLAB
S908	88	13'-0"	STR'T.	LONG. OVER PIERS
S409E	78	7'-8"	STR'T.	SIDEWALK TRANS.
S410E	78	5'-10"	BENT	CURB STIRRUPS
S411E	78	3'-1"	BENT	SIDEWALK TIES
S412E	18	27'-2"	STR'T.	SDWK. & CURB SPAN 1&3
S413E	11	21'-10"	STR'T.	SDWK. & CURB SPAN 2
S414E	4	26'-5"	STR'T.	SDWK. & CURB SPAN 1&3

NOTE:

MAKE SAW CUT IN WEARING COURSE STRUCTURAL SLAB, CURB AND SIDEWALK CONCRETE OVER C. OF PIERS AS SOON AS THE CUT CAN BE MADE WITHOUT RAVELING THE CONCRETE, SEAL WITH JT. SEALER, SPEC. 3723

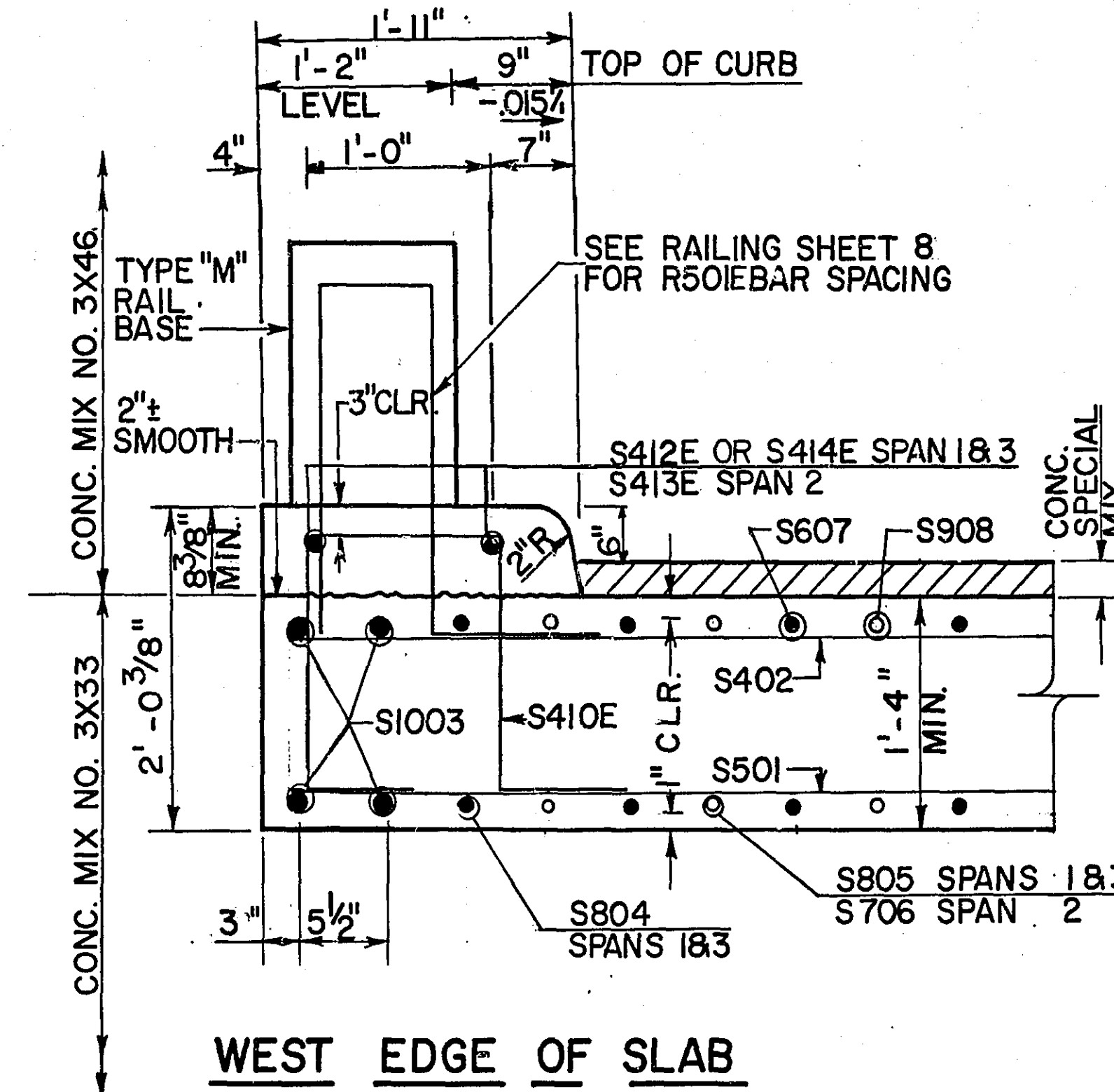
DECK SLAB CONCRETE (3X33), CURB CONCRETE (3X46) AND SIDEWALK CONCRETE (3X46) ARE ALL CALCULATED ASSUMING A 2" LOW SLUMP CONCRETE WEARING COURSE IS USED.

SUMMARY OF QUANTITIES FOR SUPER.

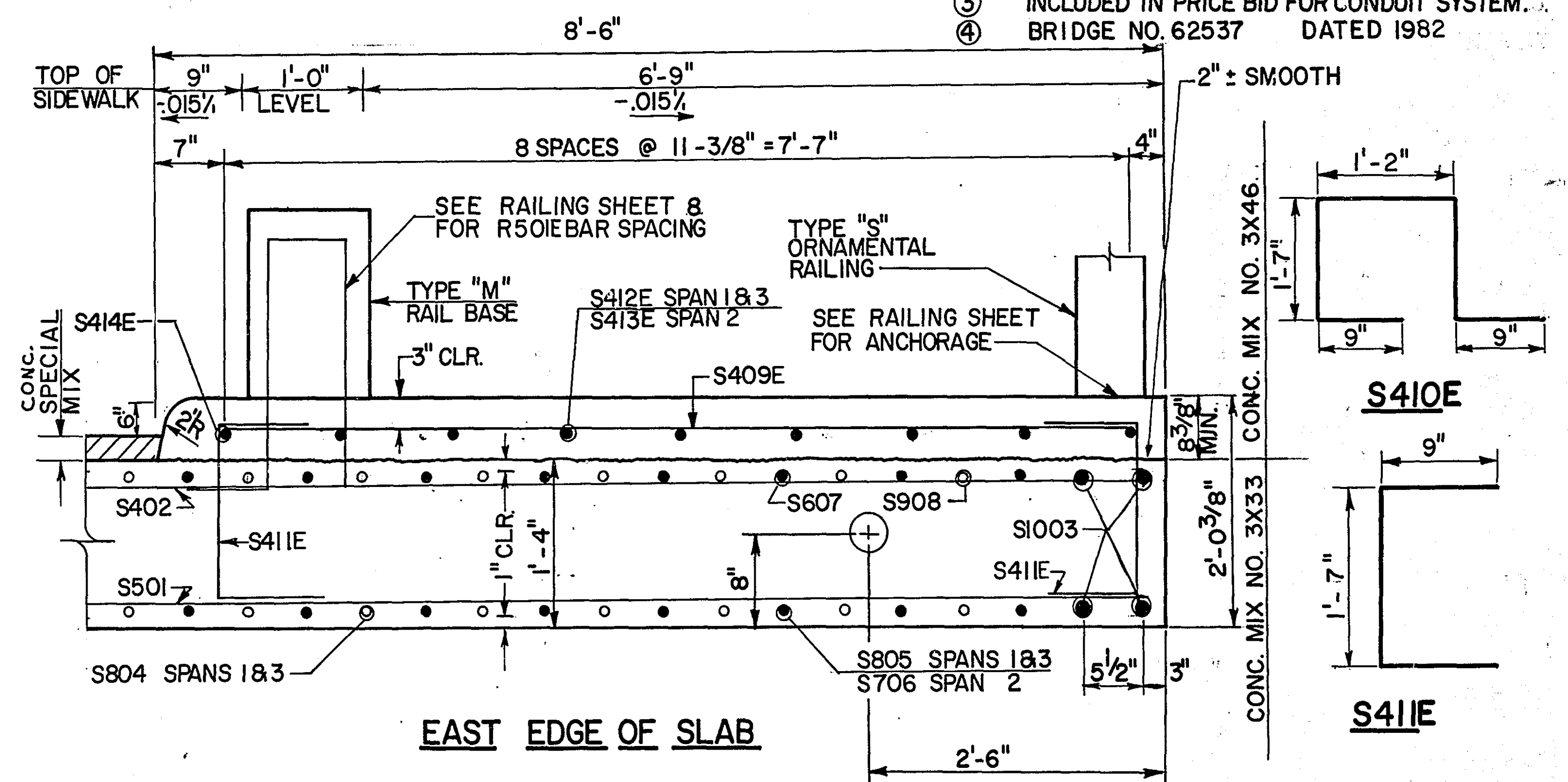
⑤	DECK SLAB CONCRETE (3X33)	3510 S.F.
⑤	WEARING COURSE CONCRETE (SPECIAL MIX)	2712 S.F.
⑤	SIDEWALK CONCRETE (3X46)	653 S.F.
⑤	RAISED CURB CONCRETE (3X46)	147 S.F.
⑤	TYPE "M" RAIL BASE CONCRETE (3X46)	154 L.F.
①	REINFORCEMENT BARS	30,785 LBS.
①⑤	REINFORCEMENT BARS (EPOXY COATED)	4,125 LBS.
⑤	EXPANSION JOINT DEVICE TYPE I	75 L.F.
⑤②	JOINT FILLER (SEE SCHEDULE SHT. NO. 5)	
③③	4" PLASTIC PIPE (N.W.B.)	97 L.F.
②④	BRIDGE NAMEPLATE	1 EA.
⑤	TYPE "M" PIPE RAILING	154 L.F.
	TYPE "S" ORNAMENTAL RAILING	77 L.F.

⑤ SEE SPECIAL PROVISIONS

- ① INCLUDES RAILING, DECK, & SIDEWALK REIN.
 ② TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.
 ③ INCLUDED IN PRICE BID FOR CONDUIT SYSTEM.
 ④ BRIDGE NO. 62537 DATED 1982



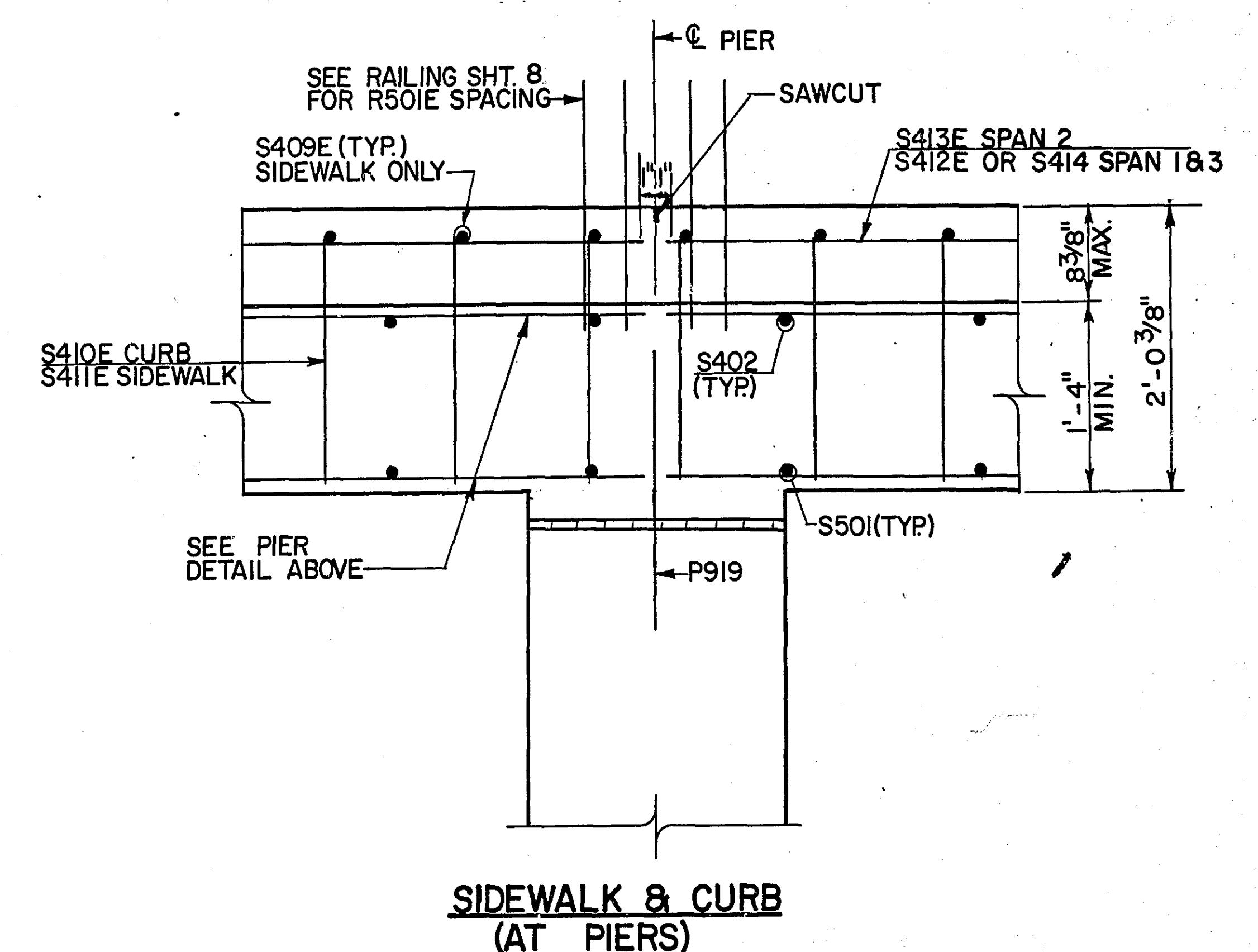
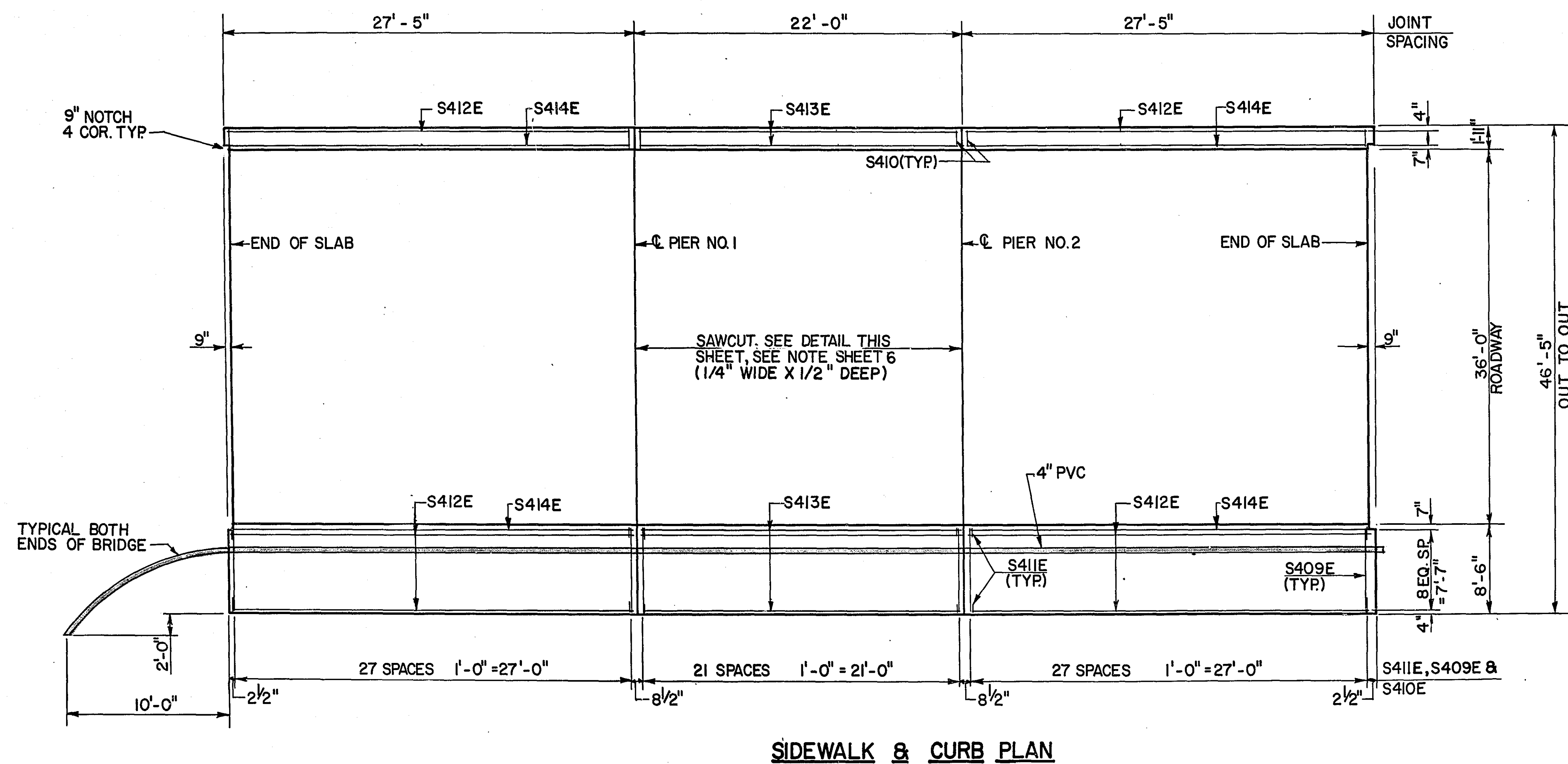
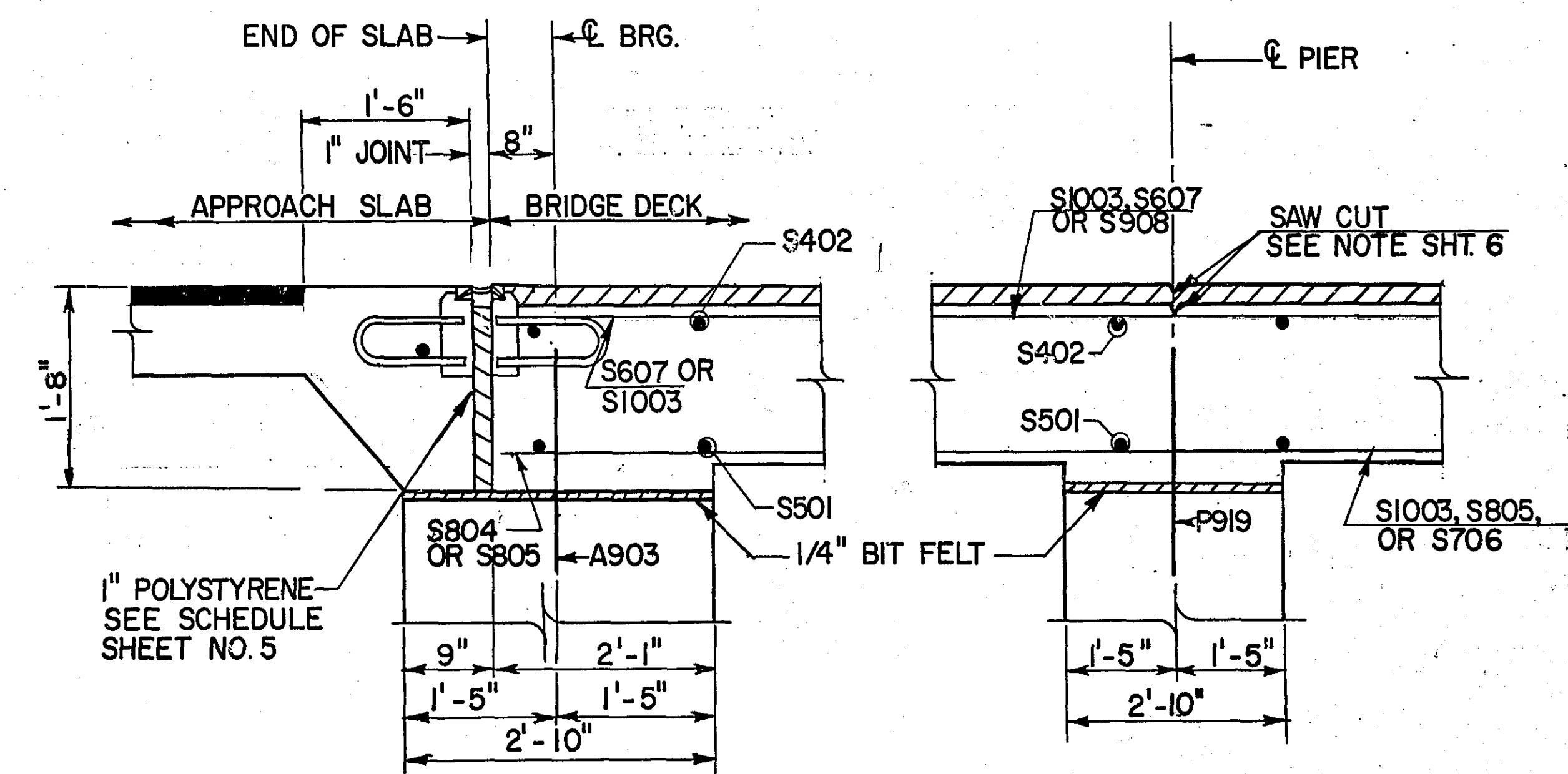
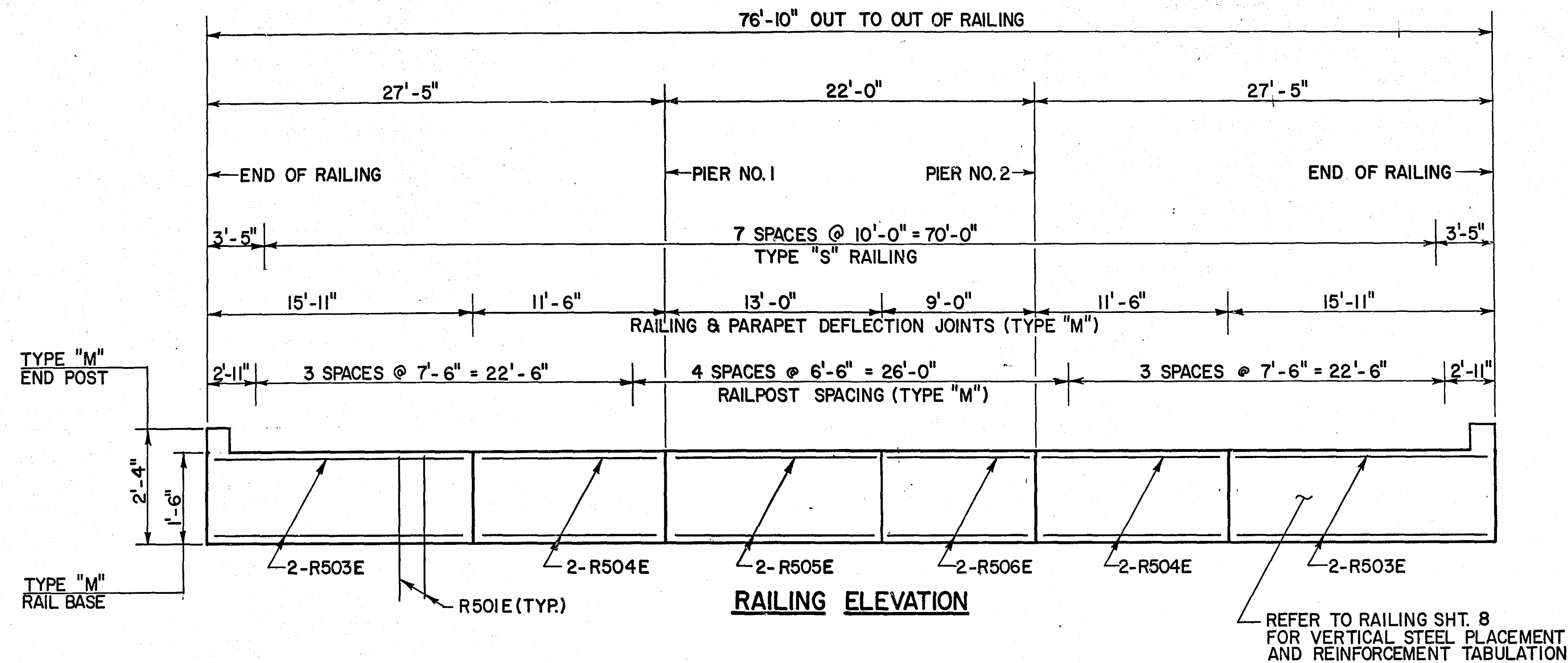
WEST EDGE OF SLAB



EAST EDGE OF SLAB

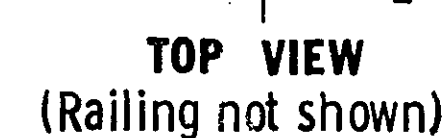
S.P. 62-622-02

TITLE:	DES: JDS	DR: JLP	APPROVED:	Bridge No.
SUPERSTRUCTURE	CHK: DHB	CHK: JDS	2-5-82	62537
	Sheet No. 6	of 14	Sheets	



TITLE: SUPERSTRUCTURE	DES: JDS	DR: JLP	APPROVED: 2-5-82	Bridge No. 62537
	CHK: DHB	CHK: JDS		
	Sheet No. 7 of 14 Sheets			

S.P. 62-622-02



GENERAL NOTES:

All railposts normal to grade.

Anchorage shall be accurately placed to provide correct alignment of railing. Set normal to grade.

All material shall comply with Spec. 3306.

Galvanize bolts, nuts, and washers per Spec. 3392.

Galvanize all other structural steel per Spec. 3394 after fabrication.

Price bid for ornamental metal railing includes all material shown on this sheet.

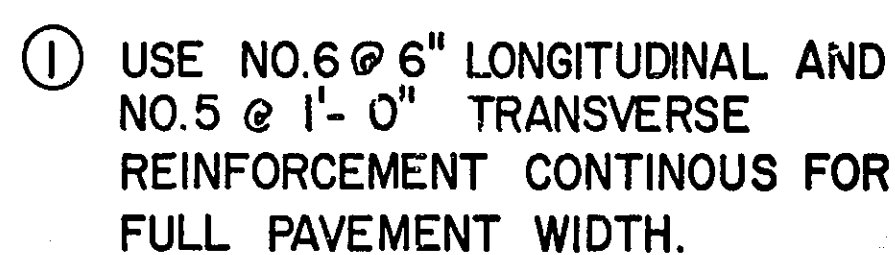
Length of "ornamental metal railing" for payment will be measured from end to end of channel with no deduction for open joint.

Fig. 5-397.108

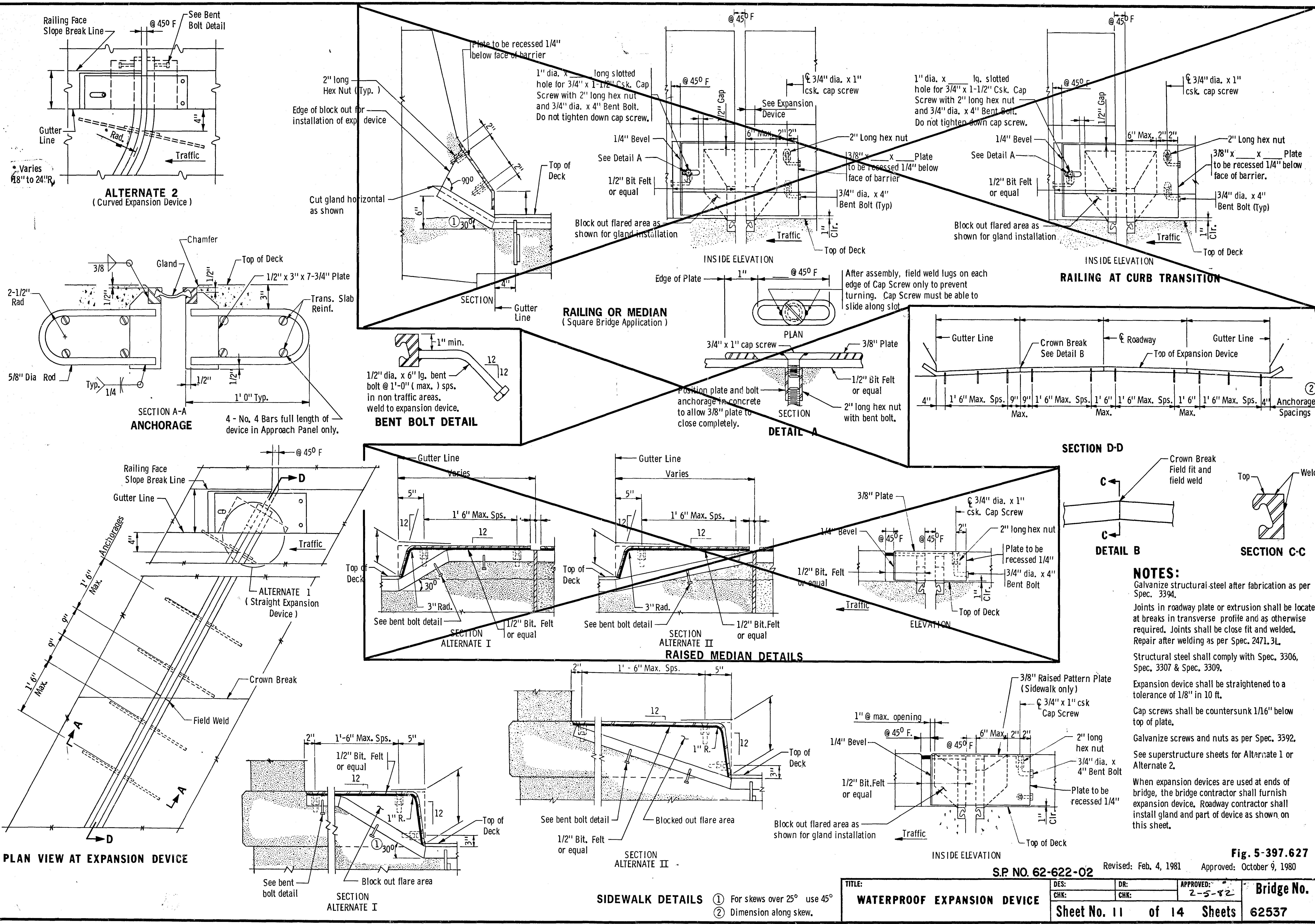
March 7, 1975

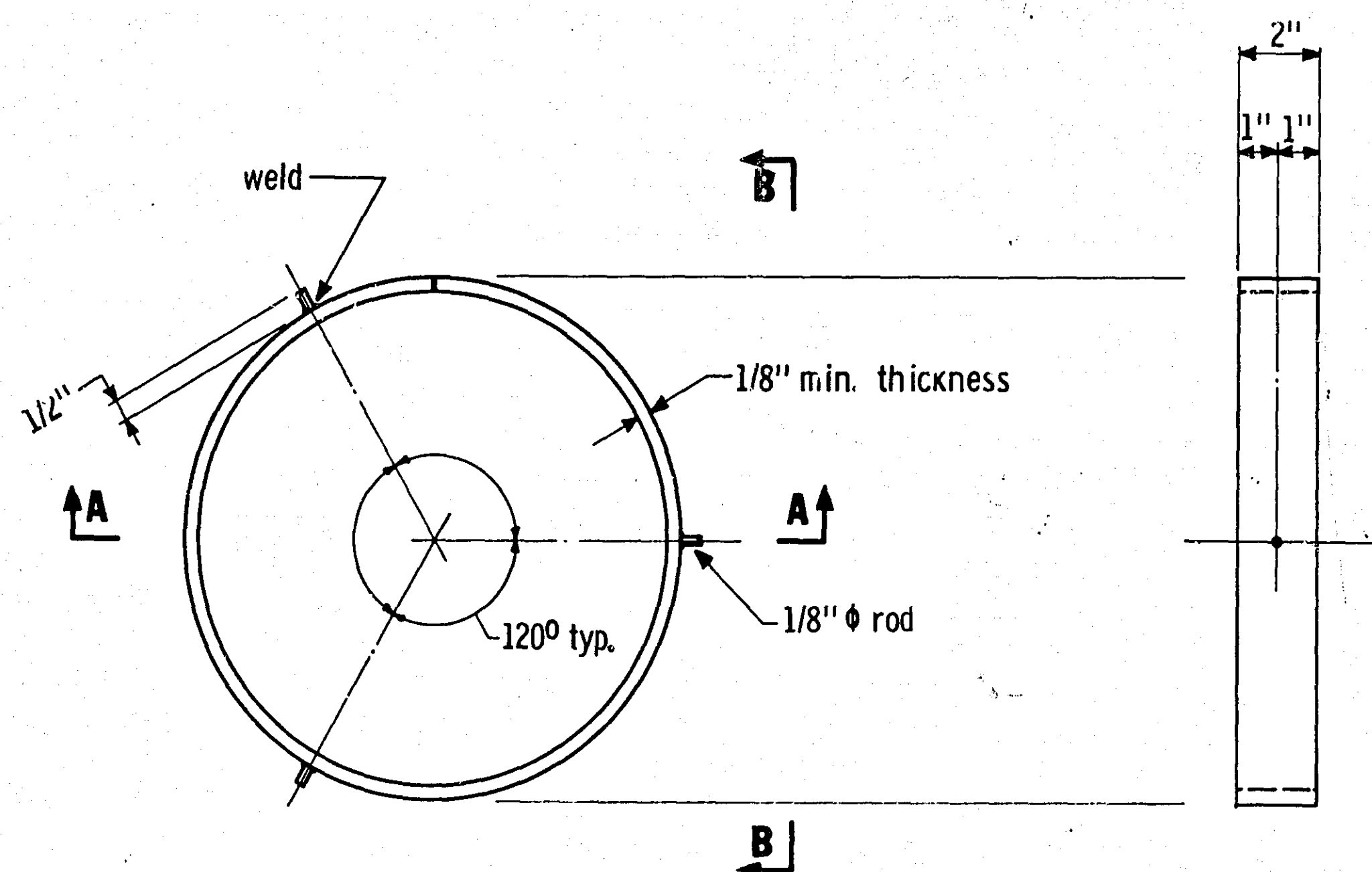
S.P. 62-622-02

TITLE: ORNAMENTAL METAL RAILING (TYPE S)	DES: CLS	DR: JLP	APPROVED:	Bridge No. 62537
	CHK: DHB	CHK: CLS	2-5-82	
	Sheet No. 9 of 14 Sheets			



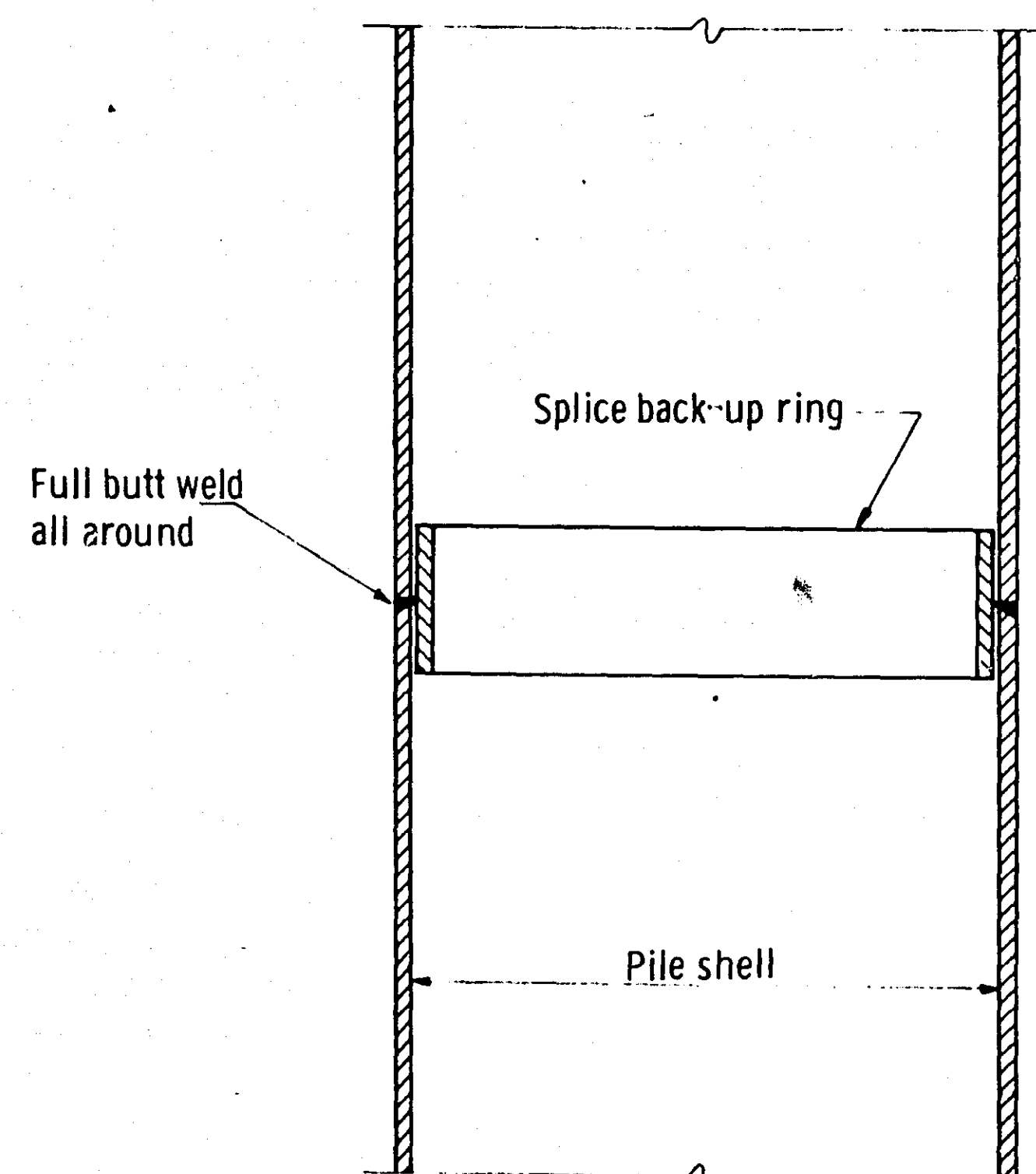
Bridge No.
62537





PLAN VIEW
(Pile not shown)

SECTION B - B
(Pile not shown)



SECTION A - A

NOTES:

Approved commercial pile splice back-up ring may be used in lieu of the type detailed. Back-up ring shall have a tight fit.

Welding electrodes shall be A. W. S. Type E7010 or E7018 (low-hydrogen).

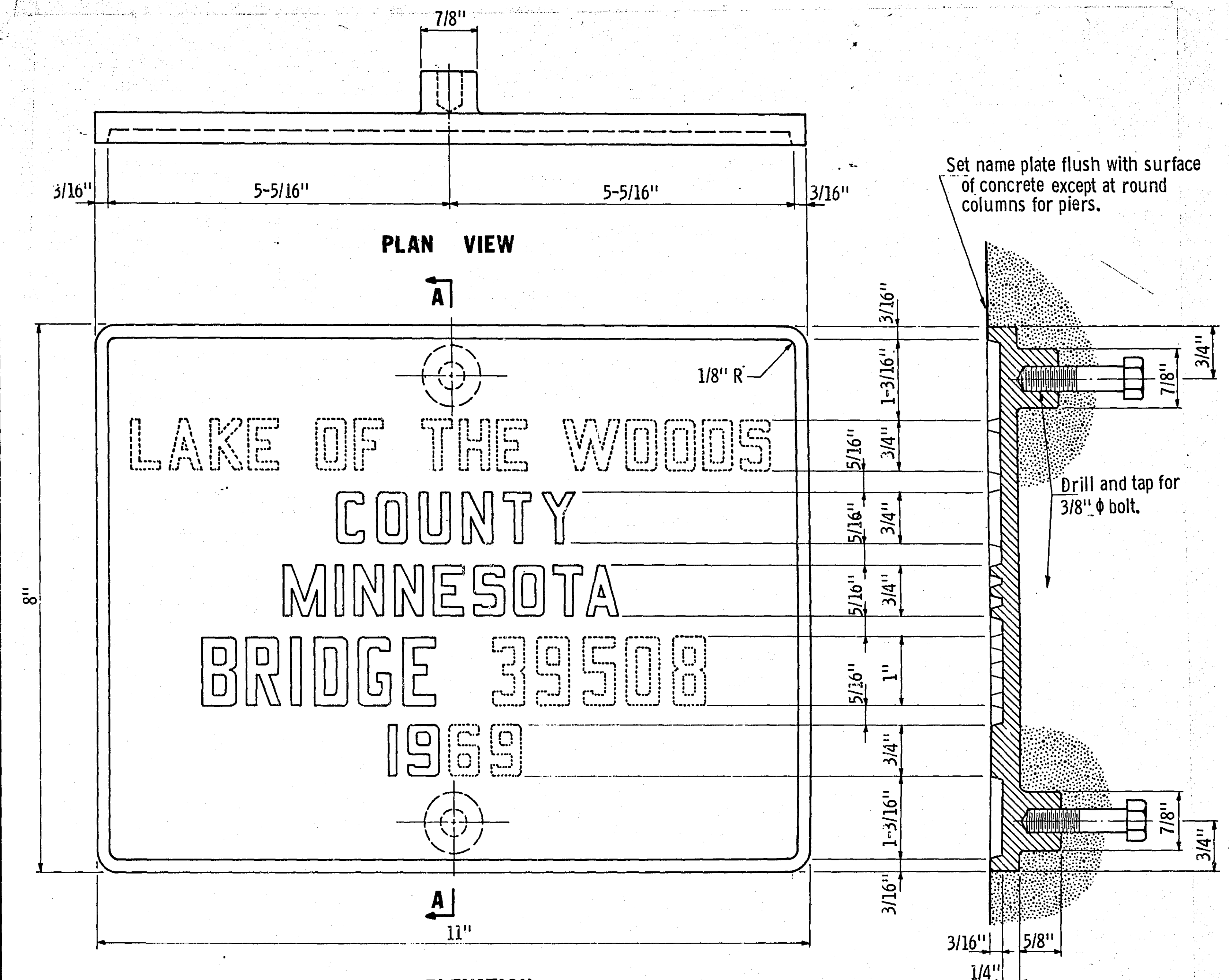
Low-hydrogen electrodes shall be supplied in hermetically (air-tight) sealed containers.

Low-hydrogen electrodes shall be stored in holding ovens at a temperature of not less than 250° F.

Low-hydrogen electrodes shall be placed in a holding oven for at least 8 hours, after having been exposed to the atmosphere for more than 2 hours.

Electrodes which have become wet, soiled or damaged shall not be used.

Welding shall not be done when the ambient temperature is lower than 0° F. or when the pile is wet or exposed to falling rain or snow. When the pile metal temperature is below 32° F., the pile metal in the area of the weld shall be heated to a minimum temperature of 70° F. and maintained at this temperature during welding.



PLAN VIEW

ELEVATION

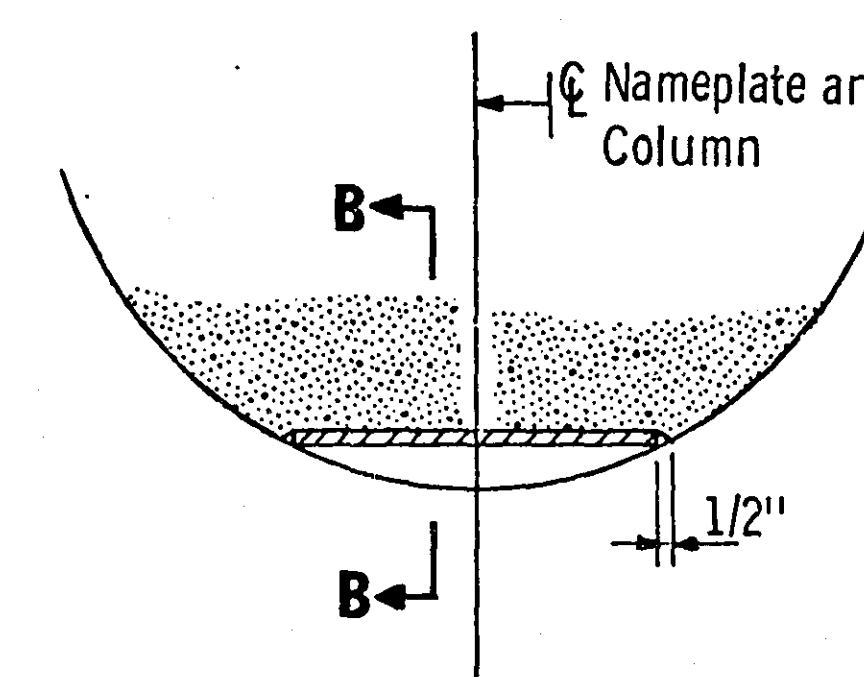
The numbers shown above are for illustration. Data to be shown on name plate is as follows:

BRIDGE 62537
YEAR 1982
COUNTY RAMSEY

SECTION A - A

NOTES:

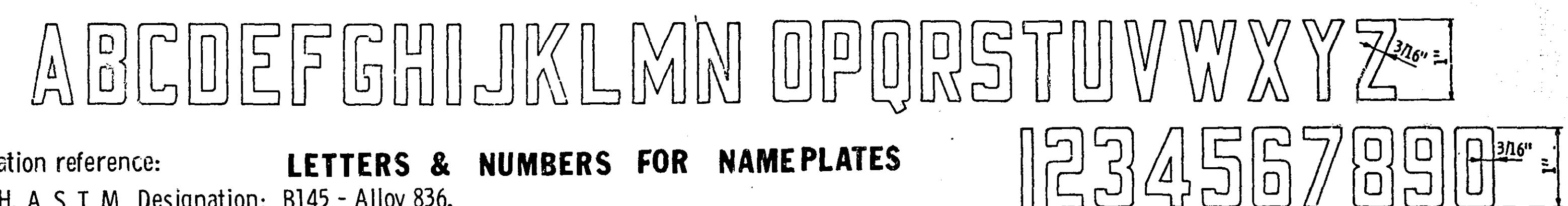
No shop drawing required. Material shall comply with Spec. 3327. Numbers and letters shall conform to those shown. Draft on letters shall not be more than 3/16 inch in 12 inch. Horizontal spacing of letters shall produce a balanced layout in proportion to spacing shown. Top surface of letters and frames shall be burnished. Furnish 2 steel bolts 3/8 inch diameter x 3 inch long with each plate. All dimensions for 3/4 inch high letters and numbers shall be in direct proportion to those shown for the 1 inch high letters and numbers.



SECTION B-B

NAMEPLATE PLACEMENT

(Round Concrete Pier Columns)



Specification reference: **LETTERS & NUMBERS FOR NAMEPLATES**
2471.3H, A. S. T. M. Designation: B145 - Alloy 836.

APPROVED: March 15, 1976

Developed by: OFFICE OF ENGINEERING
STANDARDS AND BRIDGE DESIGN

Issued by: OFFICE OF ENGINEERING
STANDARDS

MINNESOTA

DEPARTMENT OF TRANSPORTATION

BRIDGE NAMEPLATE
COUNTY BRIDGES

DETAIL NO.

B103

APPROVED July 21, 1972

Shirley A. Smith
Engineering Standards Engineer
RESEARCH AND STANDARDS
DIVISION

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

PILE SPLICE
CAST-IN-PLACE CONCRETE PILES

DETAIL NO.

B201

S.P. 62-622-02

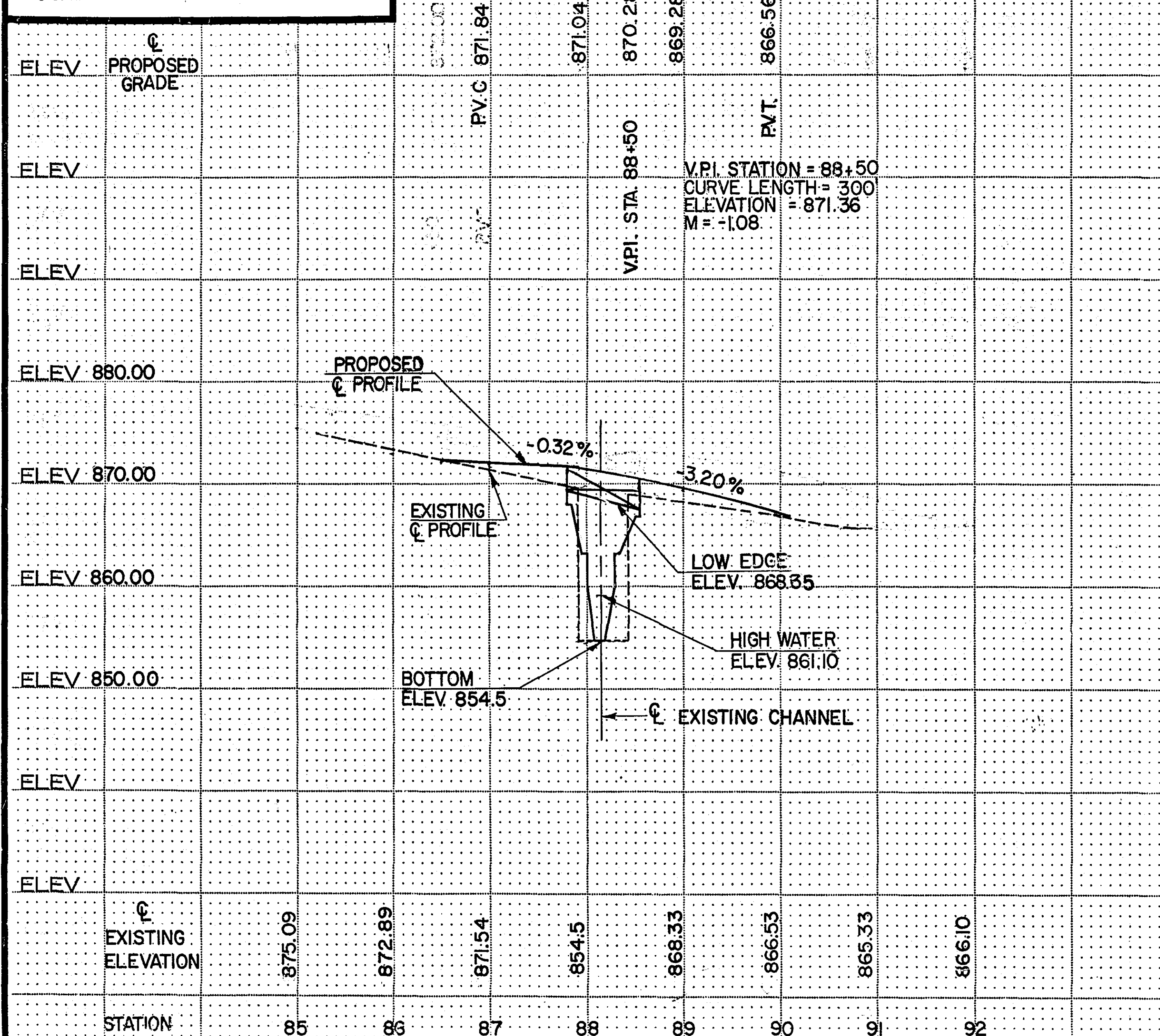
DETAIL

DES: JDS
CHK: DHB
DR: JLP
CHK: JDS
APPROVED: 2-5-82
Sheet No. 12 of 14 Sheets

Bridge No.
62537

CONTRACTED PROFILE

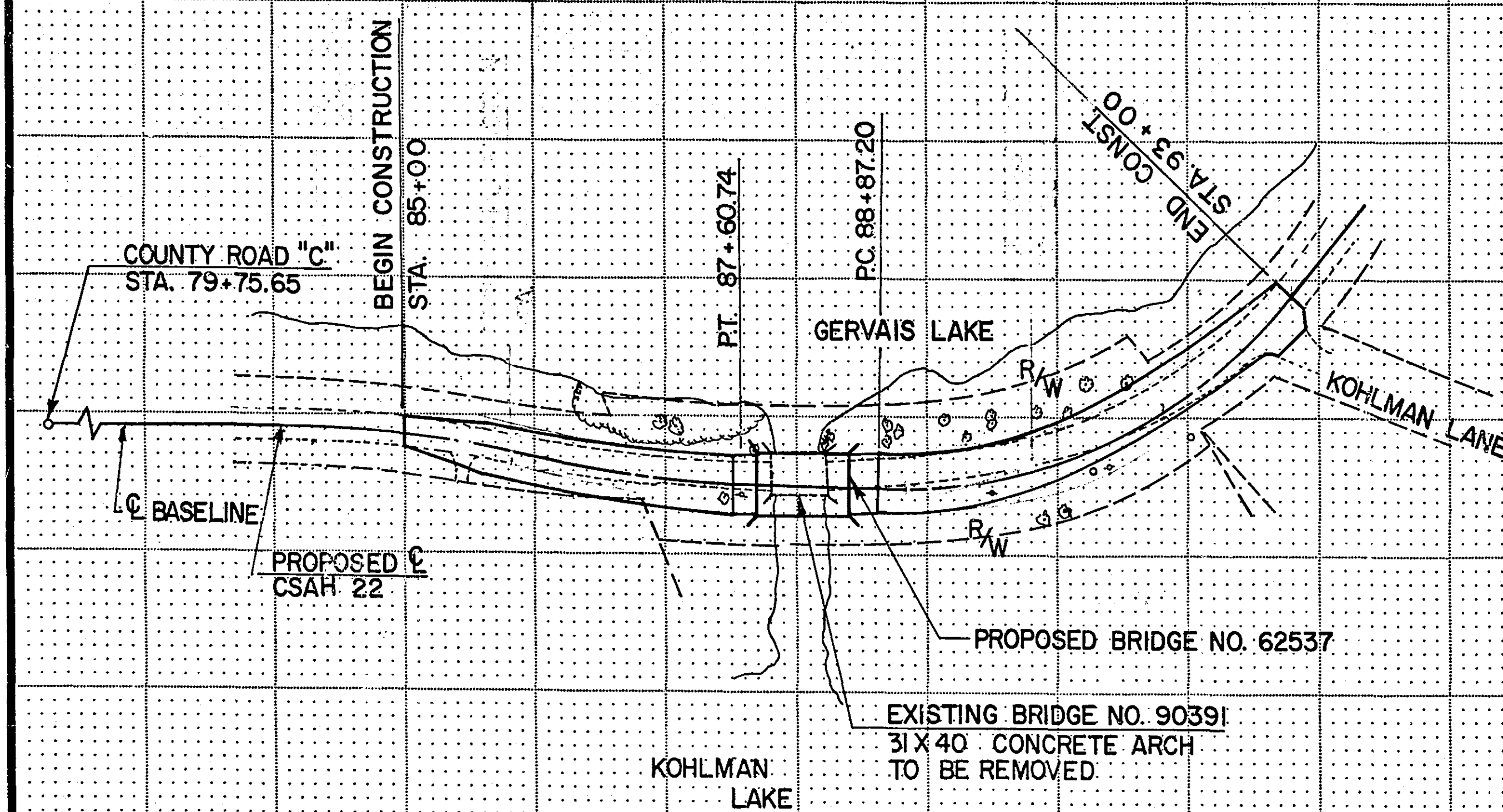
SCALE: HOR. 1" = 100' VER. 1" = 10'



PLAT

SCALE: 1" = 100'

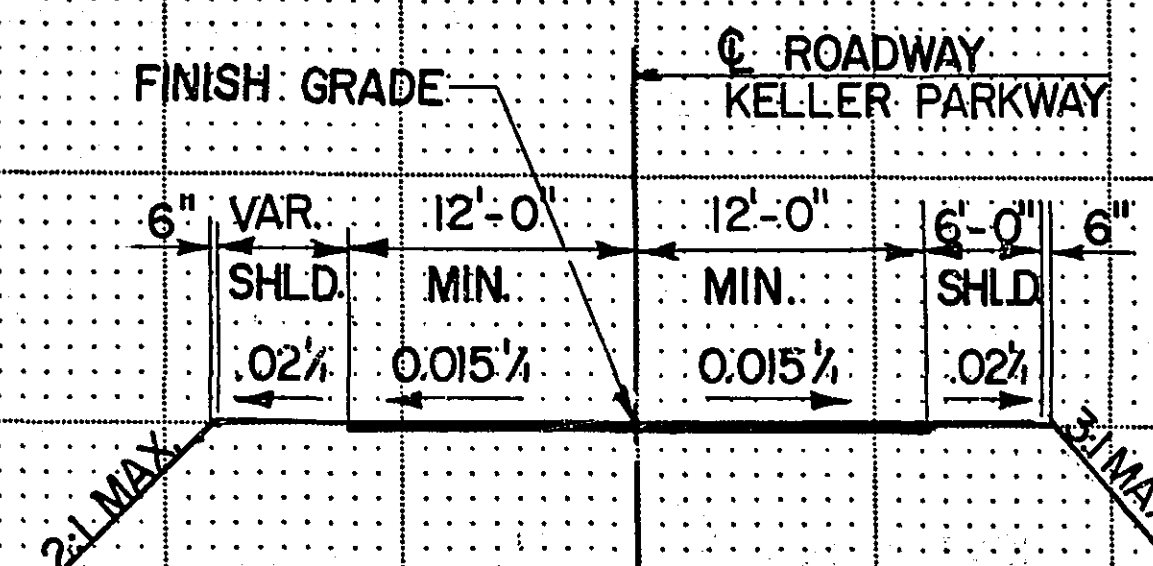
SEE ROADWAY PLANS FOR CURVE DATA



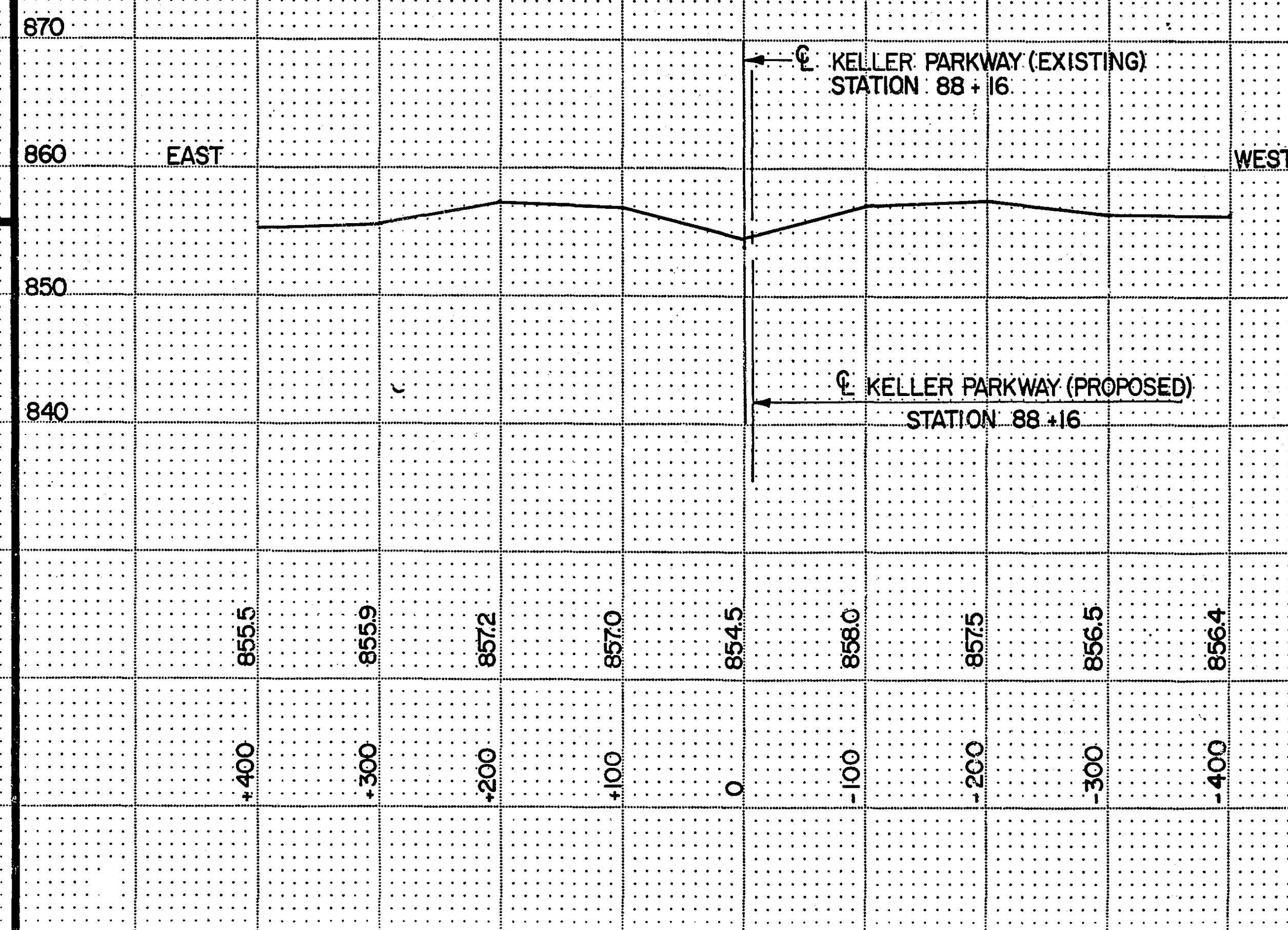
TYPICAL SECTIONS & PERTINENT DATA

SCALES AS SHOWN

TYPICAL ROADWAY SECTION



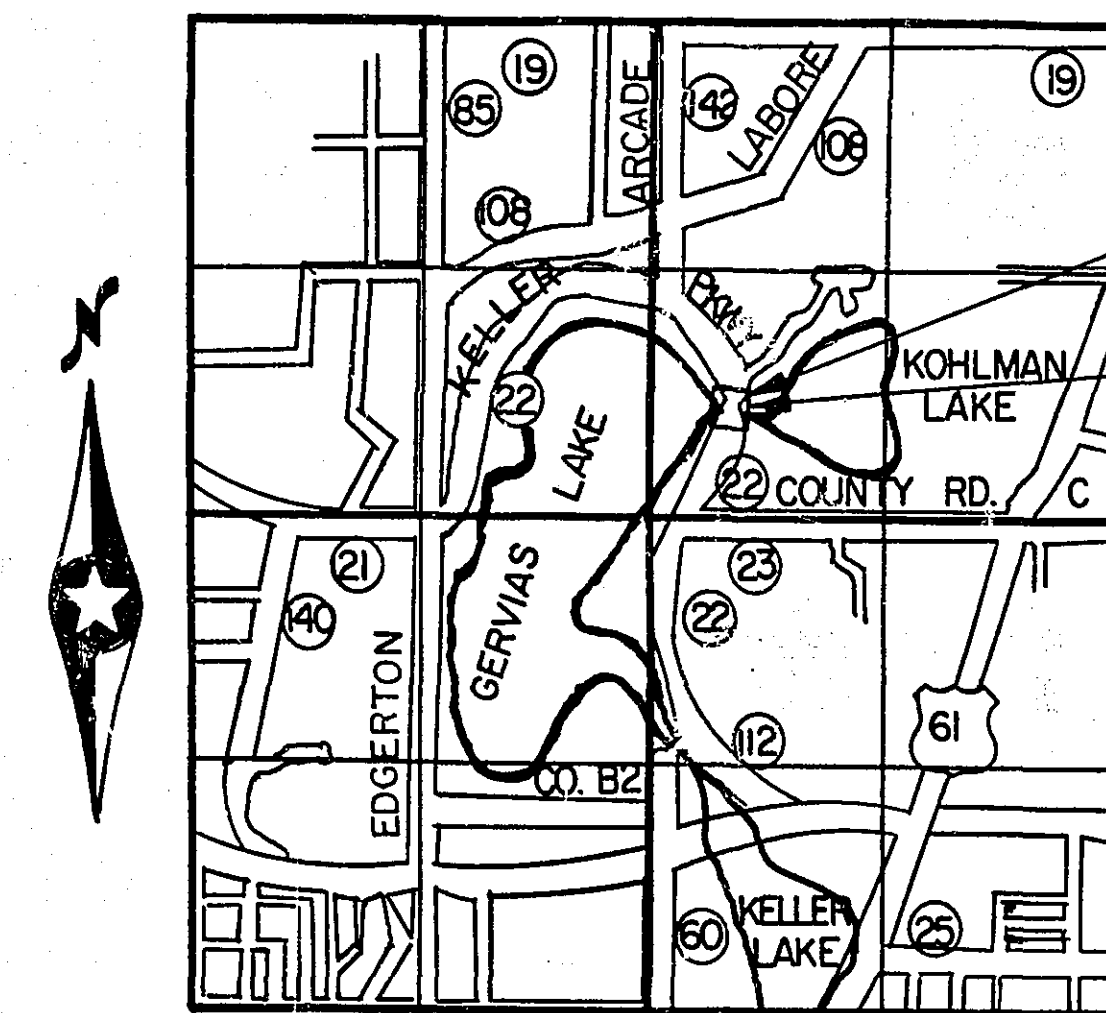
EXISTING CHANNEL ELEVATION



B.M. ELEV 967.88 (M.S.L. 1929-ADJ.)
NAIL IN POWER POLE, NORTHEAST CORNER
KOHLMAN LANE & KELLER PARKWAY

SEE SHEET 1 OF 18 SHEETS FOR PLAN AND PROFILE

Fed. Proj. No.



R 22 W
INDEX MAP
(FOUR SECTIONS)

FOLLOW SEPARATE "INSTRUCTIONS FOR PREPARATION OF BRIDGE SURVEYS" WHEN MAKING BRIDGE SURVEYS.

DATA

- Preliminary recommendations of Engineer in charge of Bridge Survey:
 - Net span length and type of bridge: 74'-0"
 - Width of roadway on bridge: 36'-0"
 - Number and width of sidewalks, if any: ONE 6'-0" ON EAST SIDE
 - Locate center of bridge at station: 88+16
 - If a skew bridge is recommended, the angle of skew should be: 0°
 - Is piling required? YES
- Special features: Waterfalls, dams, exceptional floods, ice, driftwood, sliding banks, logging, etc. NONE
- Changes: In height or length from that of old bridge, and reasons why: WIDTH
- Other bridges in vicinity:
 - Over same stream (particularly structures which carry high water without overflow of roadway); give location, length, height above water, net cross-sectional area at high water stage and estimated age: NONE
 - Over or under same highway or railroad; give location, length, horizontal and vertical clearances and estimated age
 - Reasons why these bridges are, or are not, fair indications of what length the proposed bridge should be
- If structure is over a drainage ditch, is ditch gradient liable to be altered? NO
- Navigation clearances required, if any
- Information and evidence in regard to high water stages was obtained as follows: RAMSEY COUNTY ENGINEERING DEPARTMENT, ENVIRONMENTAL SERVICES DIVISION, LAKE LEVEL RECORDS
- Must contractor provide for traffic during construction of proposed bridge? NO

HYDRAULIC ENGINEERS RECOMMENDATION

NOT APPLICABLE

HIGH AND LOW WATER ELEVATIONS
Data obtained from RAMSEY COUNTY ENGINEERING DEPARTMENT
reflects highest water elevation in the area of this construction to be 861.10 and the lowest water elevation to be 855.97. The above figures are for informational purposes only. The state neither warrants nor represents that these figures for high water and low water are in any way indicative of the high water or low water to be expected or encountered during this construction.

SHIPPING POINT

Proposed Bridge is 2.5 miles NORTHWEST of
* GLADESTONE which is the nearest
Railroad shipping point.
(Give name of town, station or siding)

Date _____ Project or County Engineer _____
Date _____ District Engineer _____

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

BRIDGE SURVEY

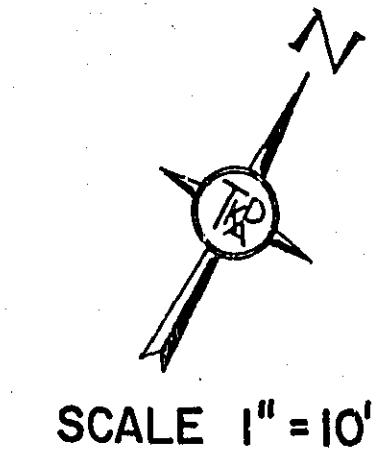
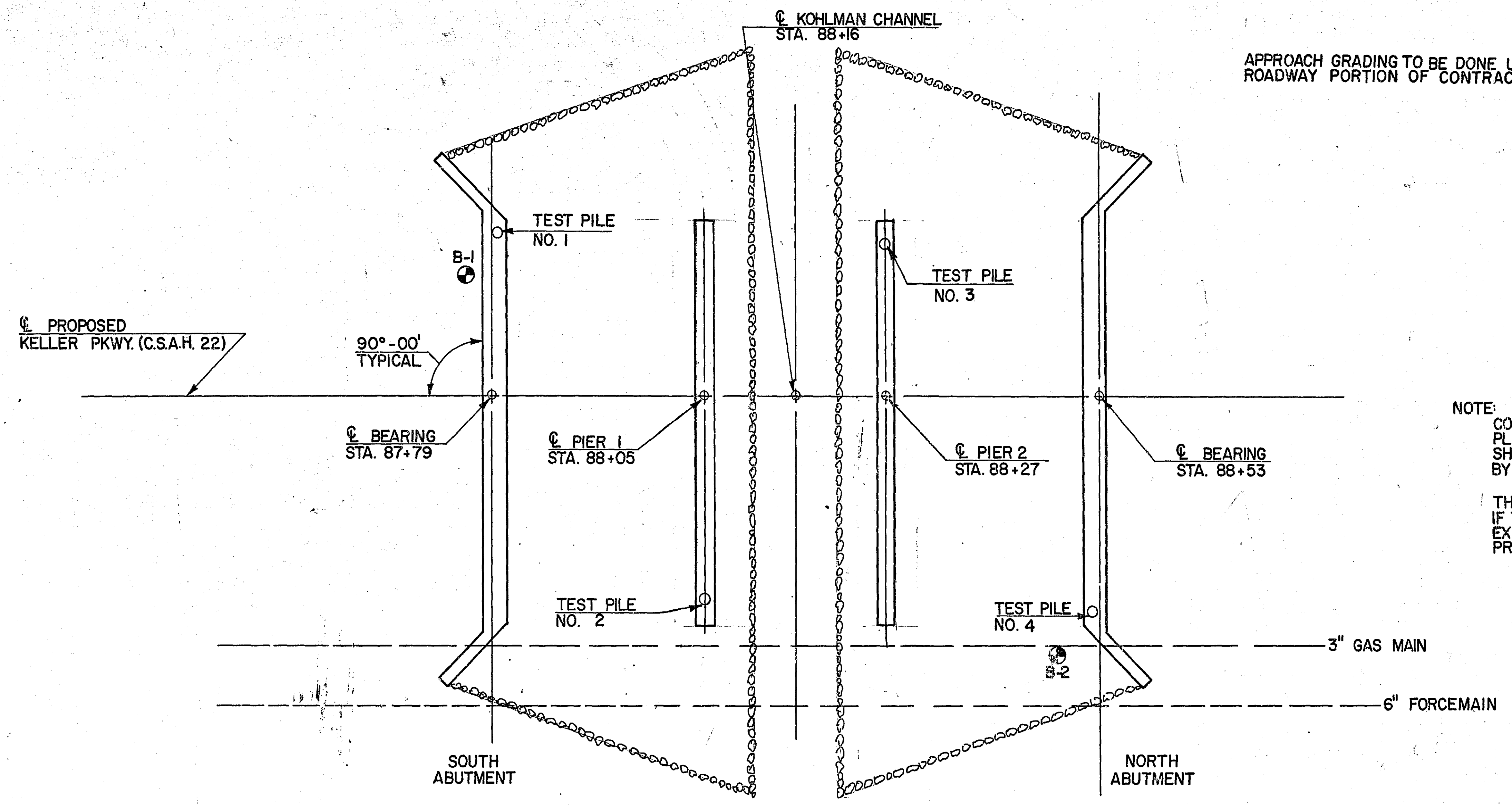
FOR
PROPOSED BRIDGE LOCATED IN
MAPLEWOOD ON CSAH NO. 22
(TOWN OR CITY) (T.H., C.S.A.H. OR C.A.R. NUMBER)
SEC. 4 TWP. 29N R. 22W
TOWNSHIP NEW CANADA COUNTY RAMSEY
SURVEY MADE DURING MONTH OF JULY 19 76
SURVEY MADE BY RAMSEY COUNTY
BRIDGE NO. 62537
2-5-82

Area No.

Job No.

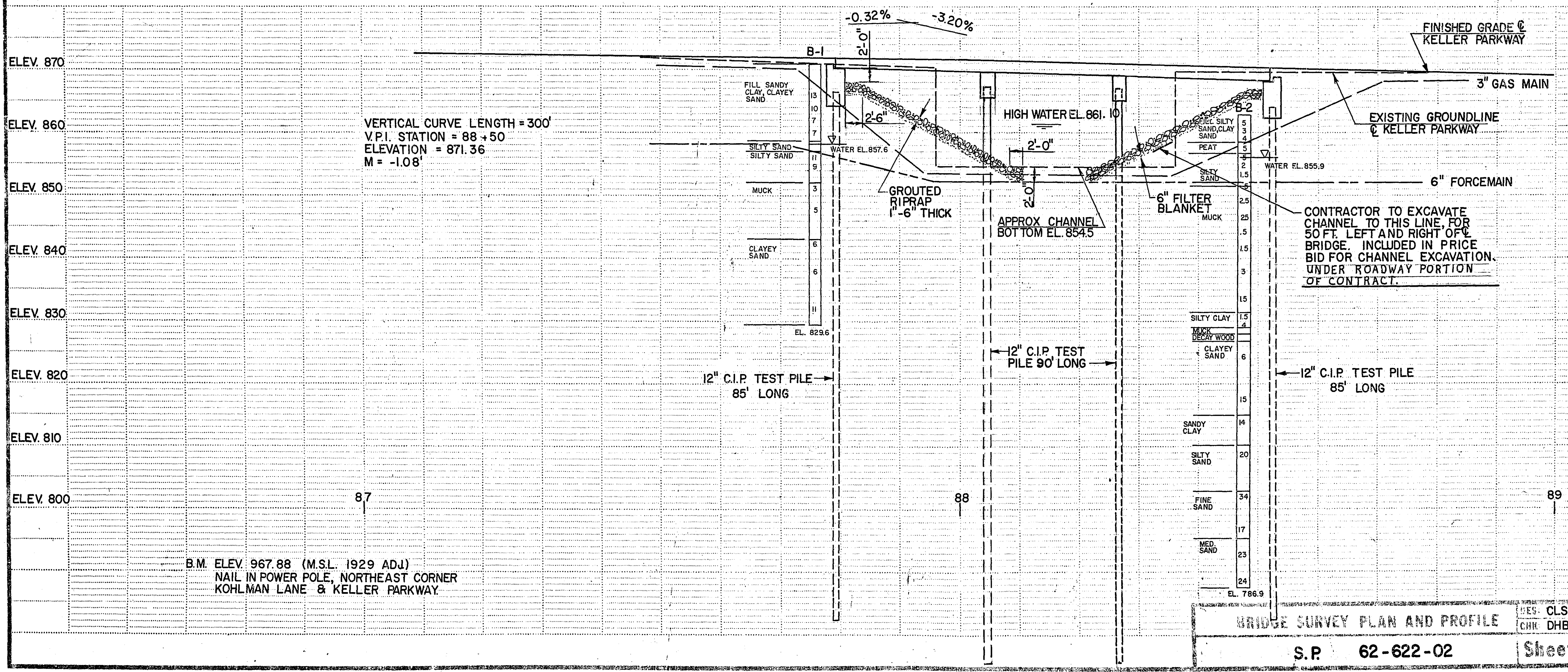
S.P. 62- 622-02

Sheet No. 13 of 14 Sheets



NOTE: CONTRACTOR SHALL DRESS SLOPES AND PLACE RIPRAP IN APPROXIMATE AREAS SHOWN. EXACT LIMITS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE FILTER BLANKET MAY BE ELIMINATED IF THE ENGINEER DETERMINES THAT THE EXISTING SLOPE IS SUITABLE, SEE SPECIAL PROVISIONS.



B.M. ELEV. 967.88 (M.S.L. 1929 ADJ)
NAIL IN POWER POLE, NORTHEAST CORNER
KOHLMAN LANE & KELLER PARKWAY.

BRIDGE SURVEY PLAN AND PROFILE

S.P. 62-622-02

DES. CLS
CHK. DHB
DR. JLP
CHK. CLS
2-5-82
Bridge No. 62537
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