

DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAYS

MUHLENBERG COUNTY  
GREENVILLE - CENTRAL CITY (U.S. 62)  
U.S. 62 OVER I.C.G. RAILROAD

UPDATE DATE 8-19-83  
LETTING DATE 8-19-83

HURST-ROSCHÉ ENGINEERS, INC.  
CONSULTING ENGINEERS  
FRANKFORT, KENTUCKY

REFERENCE AND ESTIMATE OF QUANTITIES

LOCATION	ITEM	SHEET NO.	CONCRETE CLASS "A"	CONCRETE CLASS "AA"	STEEL REINFORCING	EPOXY COATED STEEL REINFORCING	STRUCTURAL STEEL	STRUCTURE COMMON	EXCAVATION SOLID ROCK	P.C.I.B TYPE IV	4" REINF. CONCRETE SLOPE WALL	STEEL PILES HP 12x53	TEST PILES HP 12x53	NEOPRENE 2 1/2" EXP. DAM
			CU. YDS.	CU. YDS.	LBS.	LBS.	LUMP SUM (1)	CU. YDS.	CU. YDS.	LIN. FT.	S. Y.	LIN. FT.	LIN. FT.	
QUANTITIES	1													
GENERAL NOTES	2													
LAYOUT	3													
GRADING PLAN	4													
SOUNDINGS	5 & 6													
PILE RECORD	7													
ABUTMENT 1	8 - 10	152.8	34.7	14,187	644		310	50			154			
END BENT 2	11 - 13	72.0	36.3	11,175	751						314	820	51	
PIER 1	14	130.1		23,022				560			152			
PIER 2	15	98.6		17,958				170						
PIER 3	16	120.9		19,647				160						
SUBSTRUCTURE REINFORCING	17													
SUPERSTRUCTURE	18 - 22		678.9	48,764	85,658					2572.2				
ELEVATIONS	23 & 24													
NEOPRENE EXP. DAM 2 1/2"	25													120
SUPERSTRUCTURE TOTALS			678.9	48,764	85,658					2572.2				120
SUBSTRUCTURE TOTALS		574.4	73.0	85,989	1,395		310	940			620	820	51	
TOTAL		574.4	751.9	134,753	87,053	(1)	310	940		2572.2	620	820	51	120

(1) Approximate Weight of Structural Steel is 1,514 lbs.

STANDARD DRAWINGS

The Standard Drawings Listed Below Are The Current Edition And Are to be Used With These Plans.

- BBP-001-05 BJE-001-04 BGX-006-03
- BGX-004-03 BPS-003-02
- BGX-005-03 RBC-001-04

SPECIAL PROVISIONS

- 50 B (79) Epoxy Coated Steel Reinf.
- 35 (79) Neoprene Expansion Joints
- 64 (79) Cleaning and Painting Structural Steel
- 69 (79) Select Granular Embankment and Earth Core at End Bent Structures

BILL OF INCIDENTAL MATERIALS

ITEM	NO.	SIZE & LOCATION
ELASTOMERIC BRG. PAD*	14	3 1/8" x 10" x 2'-0" @ End Bents
ELASTOMERIC BRG. PAD*	21	1 1/4" x 2'-0" x 2'-6" @ Piers
THREADED ANCHOR BARS**	312	3/4" dia x 2'-0" @ Diaphragms
PREFORMED CORK EXP. JT. MAT'L.**	8	1/2" x 8" x 2'-3" @ End Bent & Abut. Shear Keys
DOWEL BARS***	42	2" dia x 2'-0" Long @ Piers
DOWEL SLEEVE***	42	2 1/2" dia x 5" Long, Capped, Std. Wt. Pipe, Closed One End @ Piers
STYROFOAM**	4	3" x 1'-9" x 5'-6" @ End Bent & Abutment
PLASTIC PIPE**	16	1" dia I.D. x 1'-1" Long @ All Wings for Guard Rail
COIL INSERTS*	312	To Fit Threaded Anchor Bars in Beams
STYROFOAM**	42	1 1/4" x 1" x 1'-0" @ Piers

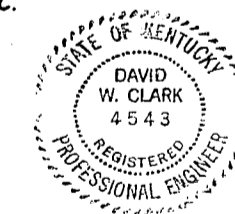
\* Incidental to Precast Concrete I-Beams  
\*\* Incidental to Class "AA" Concrete  
\*\*\* Incidental to Class "A" Concrete

CONSTRUCTION REVISION

During Excavation for Abut 1, Rock Was Not Encountered. Pile End Bent Is To Be Constructed Instead of The Open Column Abut. Shown. Refer to Sheets 7A-8A-9A-10A and 17 For Details of Pile End Bent No. 1

HURST-ROSCHÉ ENGINEERS, INC.  
CONSULTING ENGINEERS  
FRANKFORT, KENTUCKY

Signed: *David W. Clark*  
Date: July 11, 1983



U.S. 62 OVER I.C.G. RAILROAD SHEET I OF 25

COMMONWEALTH OF KENTUCKY  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
MUHLENBERG  
GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD 000RR 00011 000  
STATION 360+81.18 U.S. 62 P. E. PROJECT NO. 010-018 012D  
CONSTRUCTION PROJECT NO. RR 111-5 MAINTENANCE PROJECT NO. DRAWING NO. 20492

BRINING 44-132 27786



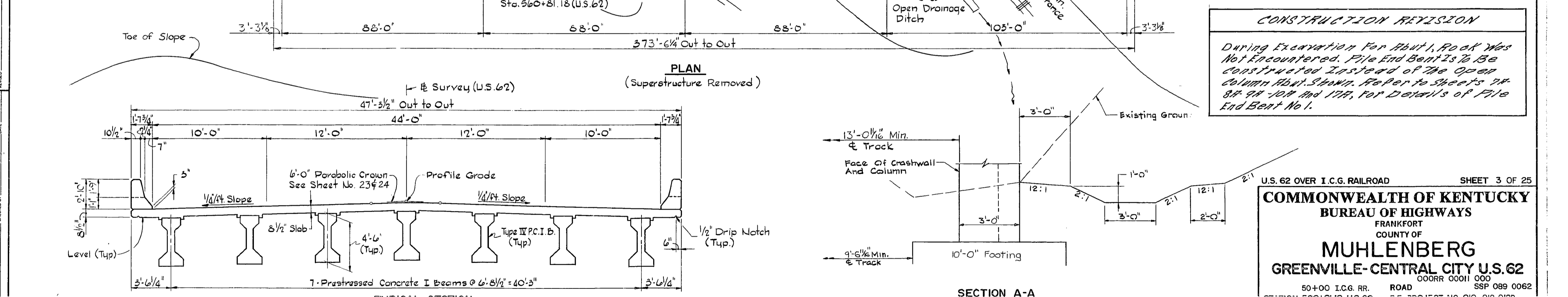
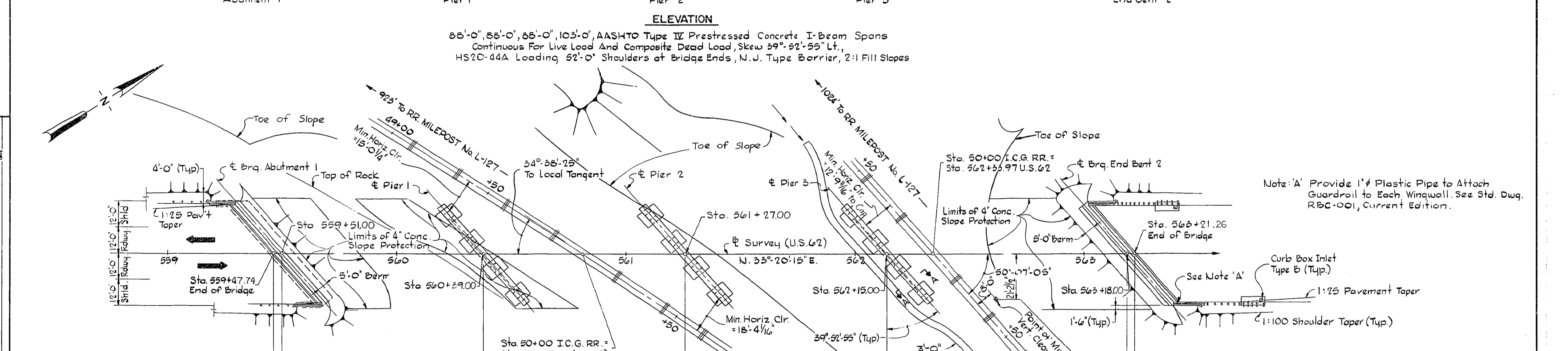
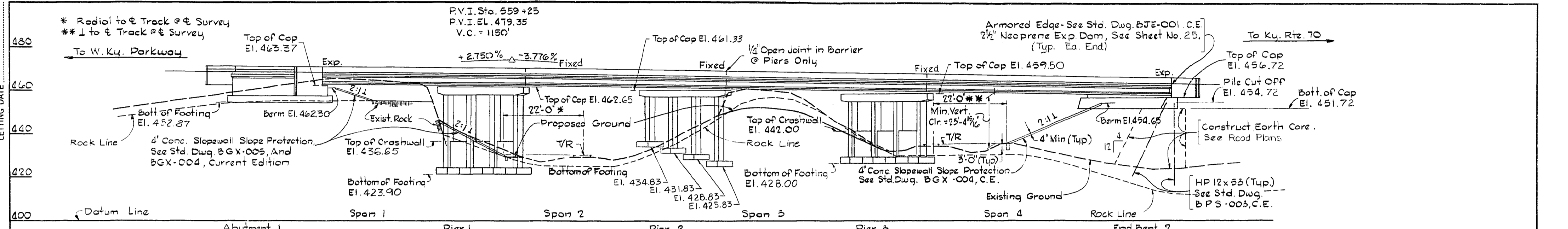


UPDATE DATE: \_\_\_\_\_  
 LETTING DATE: \_\_\_\_\_

DESIGNED BY: J.M.P.  
 CHECKED BY: J.M.P.  
 DATE: \_\_\_\_\_

DESIGNED BY: A.G.S.  
 CHECKED BY: A.G.S.  
 DATE: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_



**CONSTRUCTION REVISION**

During Excavation For Abut 1, Rock Was Not Encountered. Pile End Bent 2 Is To Be Constructed Instead of the Open Column Abut. Shown. Refer to Sheets 24, 88, 97, 108, and 177, for Details of Pile End Bent No. 1.

U.S. 62 OVER I.C.G. RAILROAD SHEET 3 OF 25

**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF

**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**

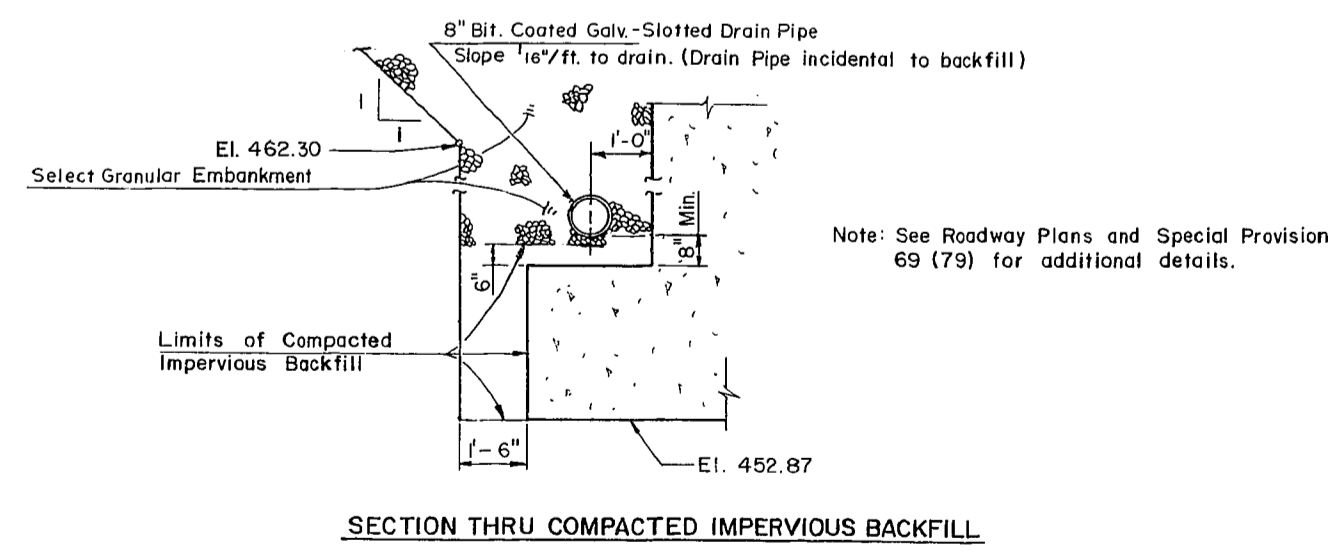
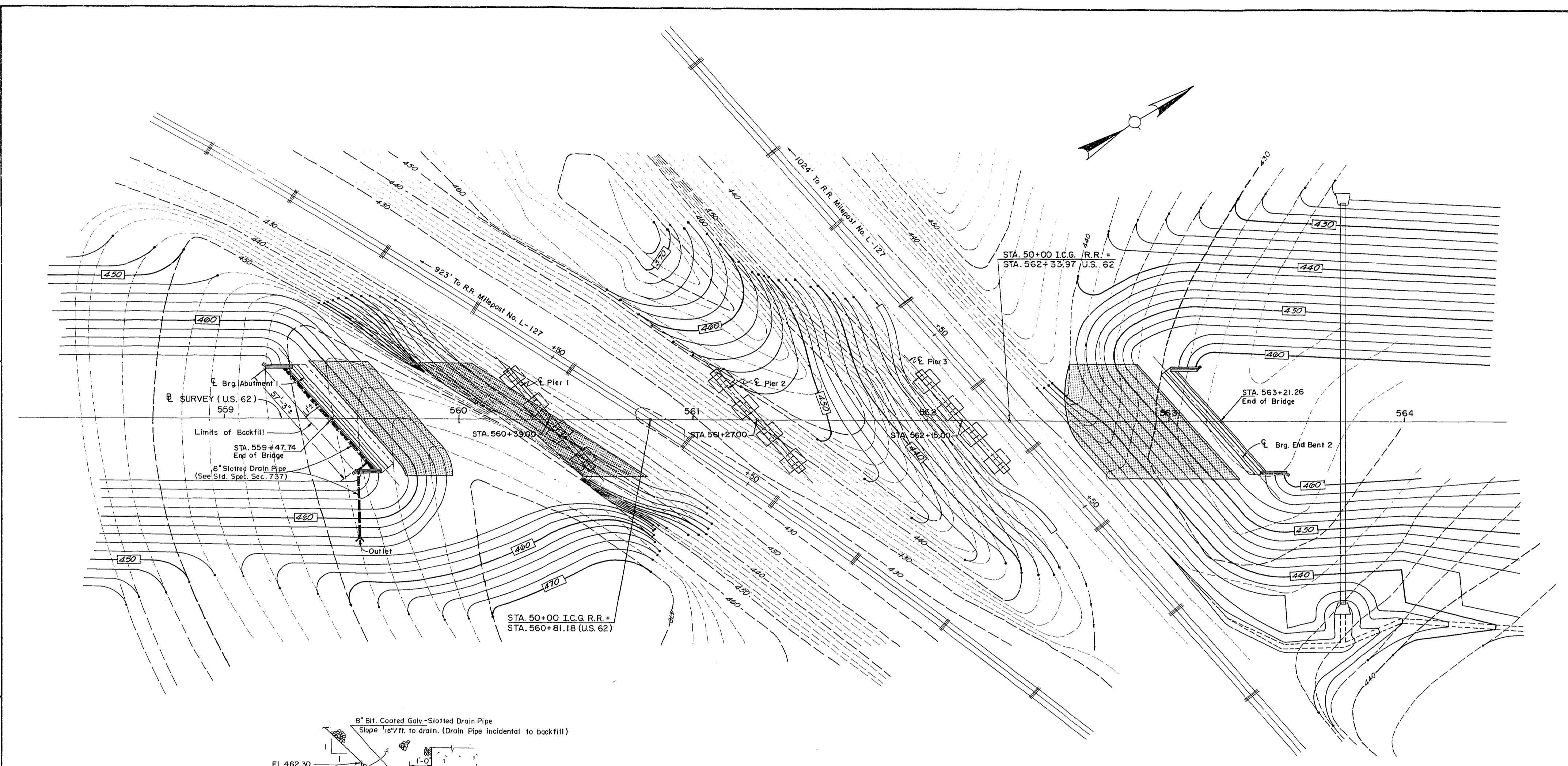
50+00 I.C.G. RR. ROAD 000R 0001 000  
 STATION 560+00 U.S. 62 P.E. PROJECT NO. 010-010 012D  
 SSP 089 0062

CONSTRUCTION PROJECT NO. \_\_\_\_\_ MAINTENANCE PROJECT NO. \_\_\_\_\_ DRAWING NO. 20492

**LAYOUT**

UPDATE DATE  
LETTING DATE

DESIGNED BY	DATE	REVISION	DATE
CHECKED BY	DATE	REVISION	DATE
APPROVED BY	DATE	REVISION	DATE



SECTION THRU COMPACTED IMPERVIOUS BACKFILL

GRADING PLAN

U.S. 62 OVER I.C.G. RAILROAD SHEET 4 OF 25

**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLENBERG**  
GREENVILLE-CENTRAL CITY U.S. 62

50+00 I.C.G. RR. ROAD 000RR 0001 000  
S.P. 089 0062

STATION 560+81.18 U.S. 62	U.S. PROJECT NO. 010-010-012D
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.
	DRAWING NO. 20492



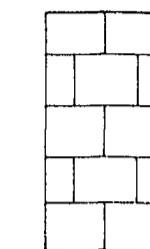
Description of Soil Compactness or Consistency

SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF PENETRATION RESISTANCE	RANGE OF UNCONFINED COMPRESSIVE STRENGTH
Coarse grained soils. (More than half of material is larger than No. 200 sieve size.)	Very loose Loose Medium compact Compact Very compact	Less than 4 blows per foot. 4 to 10 10 to 30 30 to 50 Greater than 50	Not applicable
Fine grained soils. (More than half of material is smaller than No. 200 sieve size.)	Very soft Soft Medium stiff Stiff Very stiff Hard	Not applicable.	Less than 0.25 tsf 0.25 to 0.5 0.5 to 1.0 1.0 to 2.0 2.0 to 4.0 Greater than 4.0

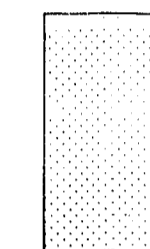
Unified Soil Classifications

MAJOR DIVISIONS	SYMBOL	NAME			
COARSE-GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW 	Well-graded gravels or gravel-sand mixtures, little or no fines.		
		GP 	Poorly graded gravels or gravel-sand mixtures, little or no fines.		
		GM 	Silty gravels, gravel-sand-silt mixtures.		
		GC 	Clayey gravels, gravel-sand-clay mixtures.		
	SAND AND SANDY SOILS	SW 	Well-graded sands or gravelly, little or no fines.		
		SP 	Poorly graded sands or gravelly sands, little or no fines.		
		SM 	Silty sands, sand-silt mixture.		
		SC 	Clayey sands, sand-clay mixtures.		
		FINE GRAINED SOILS	SILTS AND CLAYS LL IS LESS THAN 50	ML 	Inorganic silts and very fine sands, rock, flour, silty or clayey fine sands or clayey silts with slight plasticity.
				CL 	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
SILTS AND CLAYS LI IS LESS THAN 50	MH 		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.		
	-CH 	Inorganic clays of high plasticity, fat clays.			
UNCLASSIFIED MATERIAL	NONE	Non-classified material (i.e. overburden, pavement, coal mine waste, slag, rubble, talus, etc.). Include visual description.			

- N Penetration Resistance
- S+C(%) Material finer than No. 200 sieve
- Rockline Sounding
- ⊕ Disturbed Sample Boring
- ⊙ Undisturbed Sample Boring
- ⊙ Undisturbed Sample Boring and Rock Core
- Rock Core
- ⊙ Slope Incliner Installation  
typical applications: ○ ⊕ ⊙ ⊙ ●
- ↗ Approximate Footing Elevation
- ▽ Water Elevation
- ▬ Thin-walled Tube Sample
- < Standard Penetration Test Sample
- Q<sub>u</sub> Unconfined Compressive Strength
- w(%) Moisture Content
- RQD(%) Rock Quality Designation
- SDI(%) Stake Durability Index
- Rec(%) Core Recovery
- φ Angle of Internal Friction
- φ Effective Angle of Internal Friction
- c Cohesion
- τ Effective Cohesion
- γ Total Unit Weight
- RDZ Rock Disintegration Zone
- OB Overburden Bench
- IB Intermediate Bench
- R Refusal
- NR Refusal Not Encountered
- LI Liquidity Index
- AI Activity Index



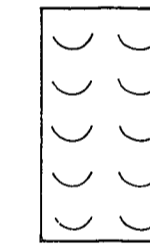
LIMESTONE



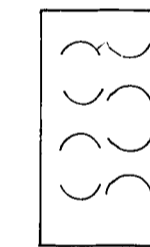
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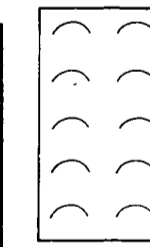
COAL



SHALE, SOIL-LIKE  
(SDI ≤ 50)



SHALE, INTERMEDIATE  
(50 < SDI < 95)



SHALE, ROCK-LIKE  
(SDI < 95)

RQD(%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 - 25	Very Poor

U.S. 62 OVER I.C.G. RAILROAD SHEET 5 OF 25

**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
 GREENVILLE-CENTRAL CITY  
 50+00 I.C.G. RR. ROAD 000RR 00011 000  
 STATION 550+81.8 U.S. 62 P.E. FROJ. NO. SHP. 089 0062. 010-018 012D  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 20492

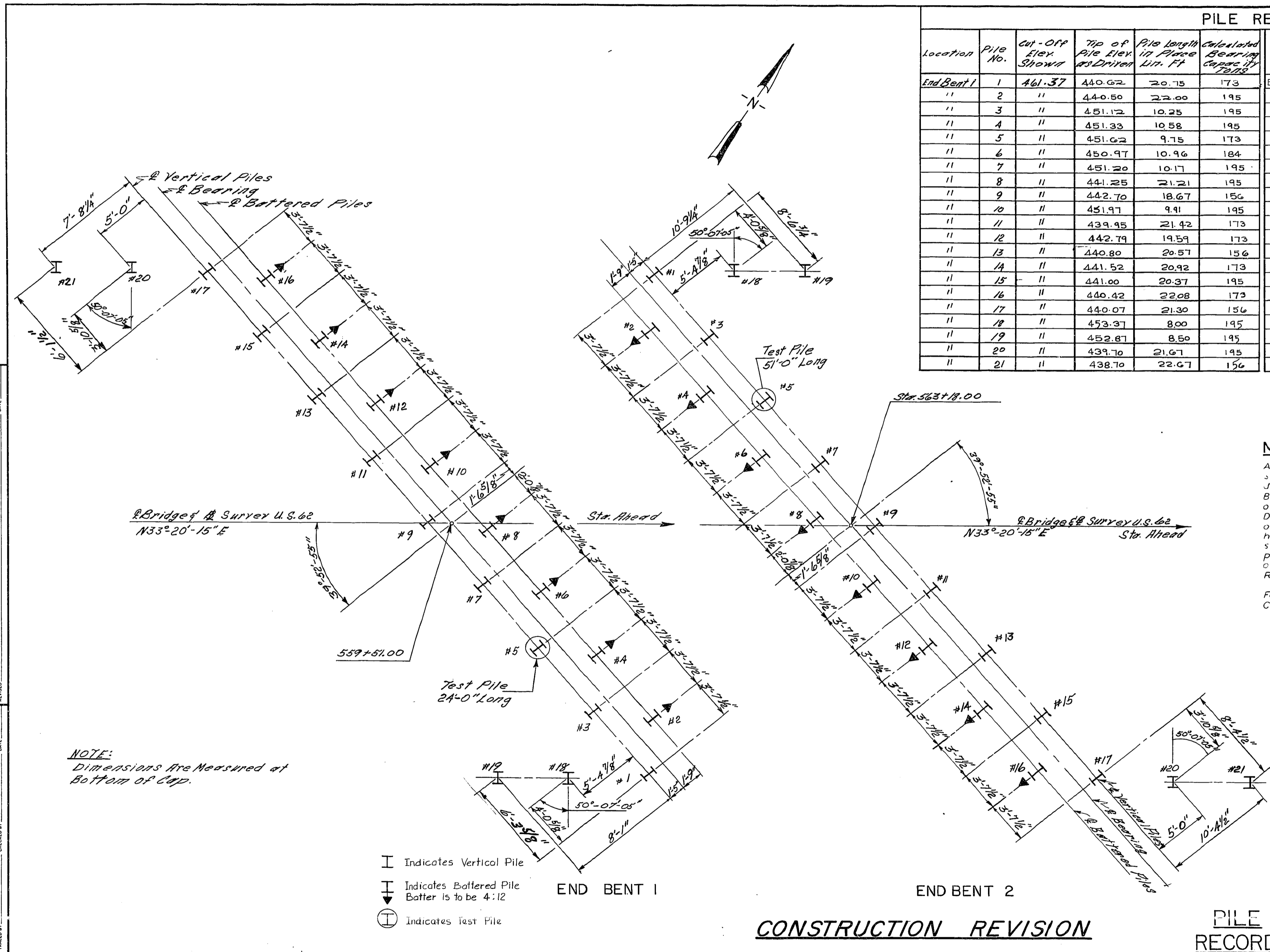






UPDATE DATE  
LETTING DATE

DESIGNED BY: S.E.P. CHECKED BY: J.T. DATE: 5/1/53  
 REVISION: PILE RECORD DATE: 5/1/53  
 TRACED BY: DATE:



PILE RECORD											
Location	Pile No.	Cut-Off Elev. Shown	Tip of Pile Elev. as Driven	Pile Length in Place Lin. Ft.	Calculated Bearing Capacity Tons	Location	Pile No.	Cut-off Elev. Shown	Tip of Pile Elev. as Driven	Pile Length in place Lin. Ft.	Calculated Bearing Capacity Tons
End Bent 1	1	461.37	440.62	20.75	173	End Bent 2	1	454.72	417.51	37.21	184
"	2	"	440.50	22.00	195	"	2	"	418.91	37.75	173
"	3	"	451.12	10.25	195	"	3	"	415.18	39.54	156
"	4	"	451.33	10.58	195	"	4	"	416.22	40.58	156
"	5	"	451.62	9.75	173	"	5	"	413.51	41.21	156
"	6	"	450.97	10.96	184	"	6	"	415.35	41.50	156
"	7	"	451.20	10.17	195	"	7	"	410.63	44.09	156
"	8	"	441.25	21.21	195	"	8	"	414.04	42.88	156
"	9	"	442.70	18.67	156	"	9	"	410.98	43.74	156
"	10	"	451.97	9.91	195	"	10	"	411.41	45.65	156
"	11	"	439.95	21.42	173	"	11	"	411.26	43.46	173
"	12	"	442.79	19.59	173	"	12	"	411.68	45.04	156
"	13	"	440.80	20.57	156	"	13	"	412.01	42.71	173
"	14	"	441.52	20.92	173	"	14	"	411.30	45.60	156
"	15	"	441.00	20.37	195	"	15	"	412.59	42.13	195
"	16	"	440.42	22.08	173	"	16	"	411.57	45.17	156
"	17	"	440.07	21.30	156	"	17	"	413.01	41.71	156
"	18	"	453.37	8.00	195	"	18	"	415.14	39.58	156
"	19	"	452.87	8.50	195	"	19	"	413.80	40.92	156
"	20	"	439.70	21.67	195	"	20	"	413.10	41.62	156
"	21	"	438.70	22.67	156	"	21	"	412.49	42.23	156

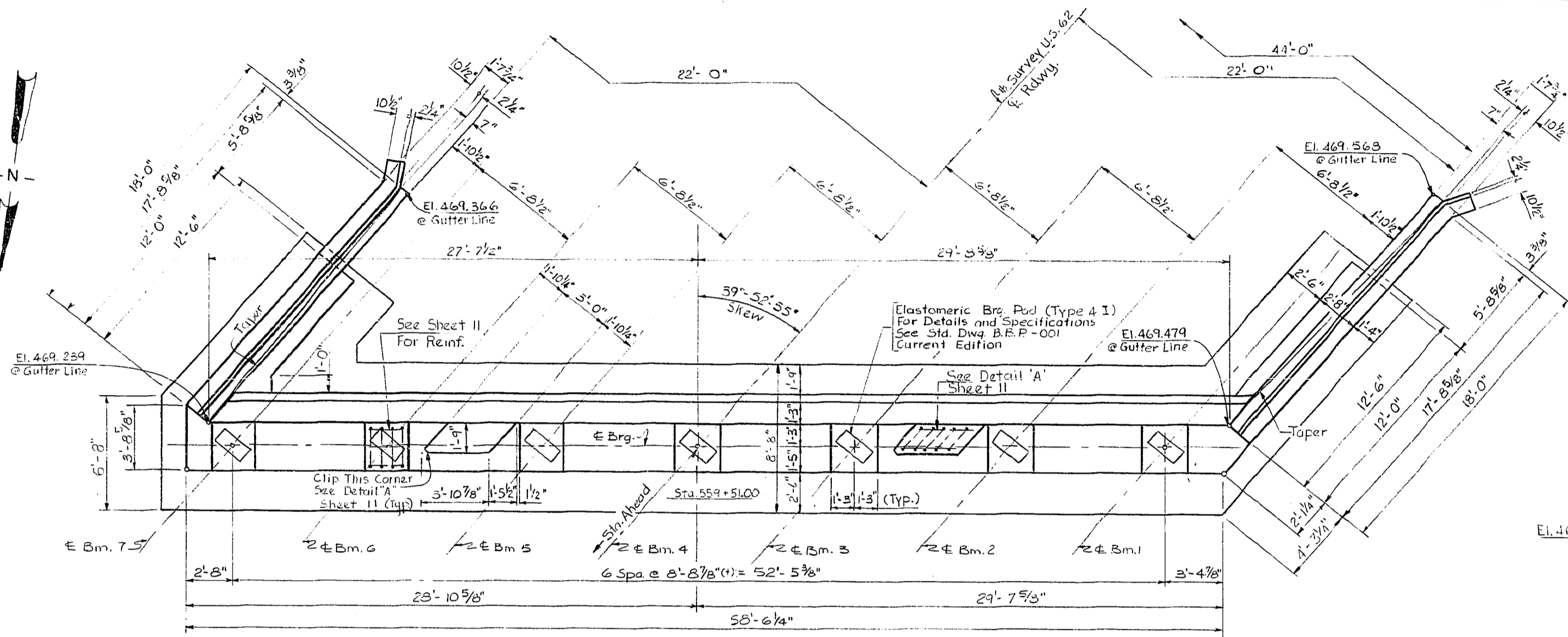
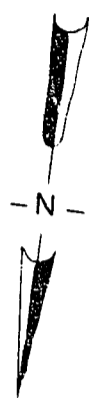
**NOTE -**  
 After all Piles have been driven, the Resident Engineer shall record, for each pile, the Tip of Pile elevation as Driven, the length of pile in place and the Calculated Bearing Capacity, and shall return one blue print copy of this sheet with this data to the Director of the Division of Bridges so that the data may be recorded on the original plans. Lengths of Piles in place shown hereon are the actual lengths of piles in the finished structure below cut-off elevation and are not necessarily pay items. This pile record does not replace other records of piles required to be kept and submitted by the Resident Engineer.  
 For Pile notes and details, see Standard Drawing BPS 003, Current Edition and General Notes on Sheet No. 2.

**CONSTRUCTION REVISION**

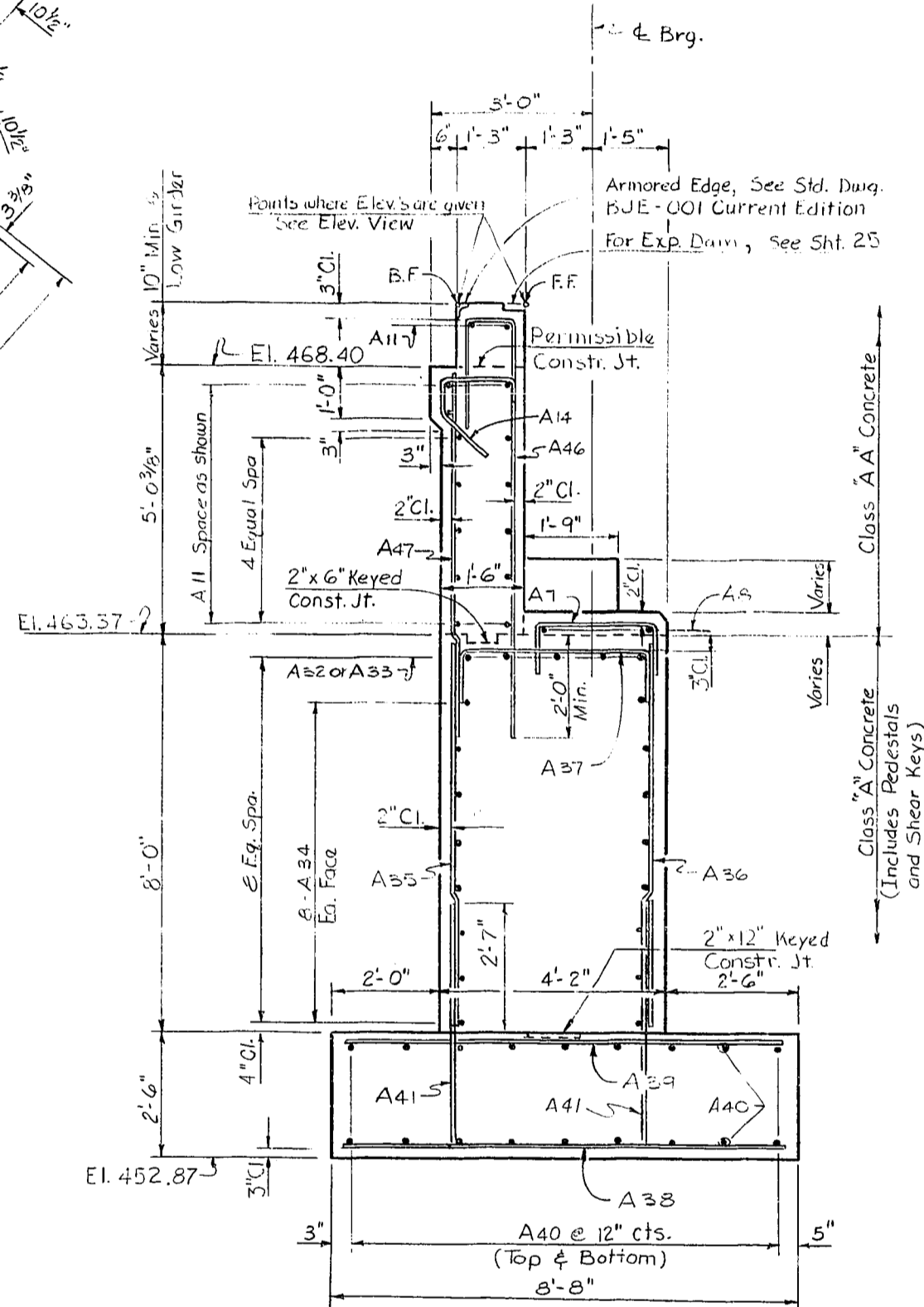
**PILE RECORD**

U.S. 62 OVER I.C.G. RAILROAD SHEET 777 OF 25  
**COMMONWEALTH OF KENTUCKY**  
 BUREAU OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**  
 50+00 I.C.G. RR. ROAD 000RR 00011 000  
 SSP 089 0052  
 STATION 560+51.13 U.S. 62 P.E. PROJECT NO. 010-018 012D  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20492

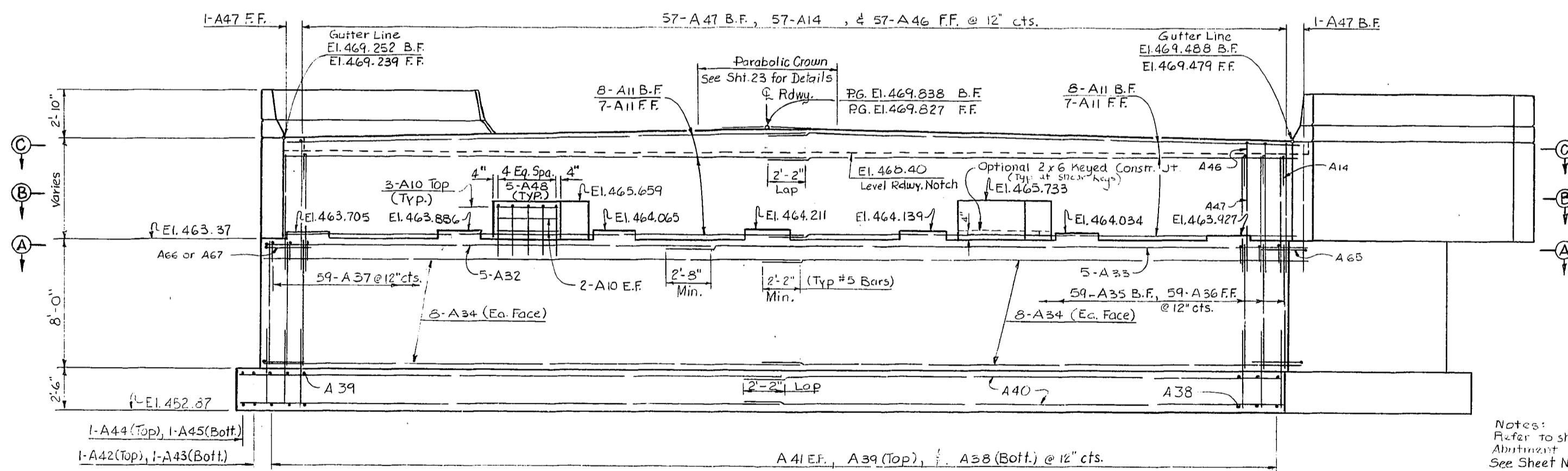




PLAN



TYPICAL SECTION



ELEVATION

ESTIMATE OF QUANTITIES

Concrete Class 'A'	156.8	Cys.
Concrete Class 'AA'	54.7	Cys.
Reinforcement	14,187	Lbs.
Epoxy Coated Steel Reinf.	644	Lbs.

Void This Sheet See Sheet 877

Notes:  
 Refer to sheet 4 for Details of Abutment Backdrain System.  
 See Sheet No. 10 for Back Drain Details.  
 See Sheet No. 10 for Wingwall Details.  
 See Sheet No. 11 for Reinforcing Schedule.  
 No Construction Joint permitted between caps and pads.  
 F.F. denotes Front Face.  
 B.F. denotes Back Face.  
 See Sheet No. 9 for Sections A-A, B-B, C-C, and Footing Plan.

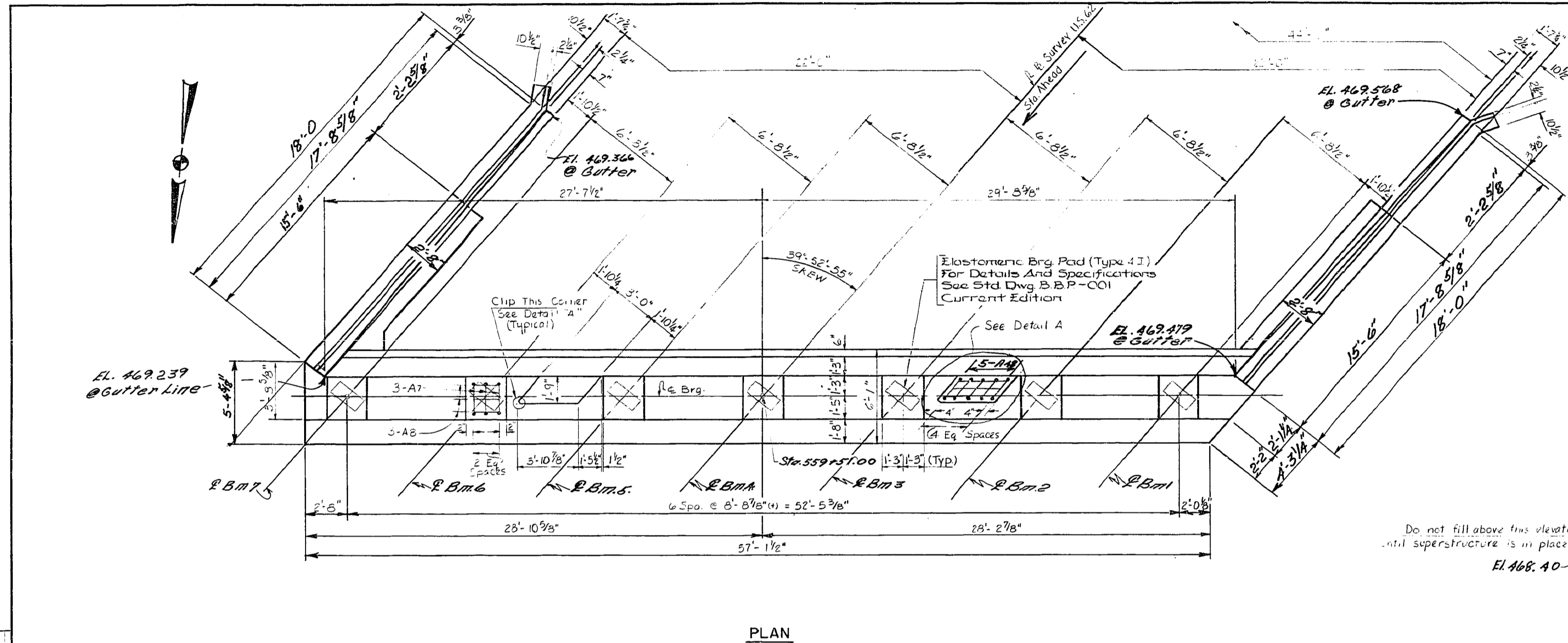
ABUTMENT I

DESIGNED BY: G.E.P. DATE: 5/13/53  
 CHECKED BY: J.T. DATE: 5/13/53  
 DRAWN BY: J.T. DATE: 5/13/53  
 REVISIONS:

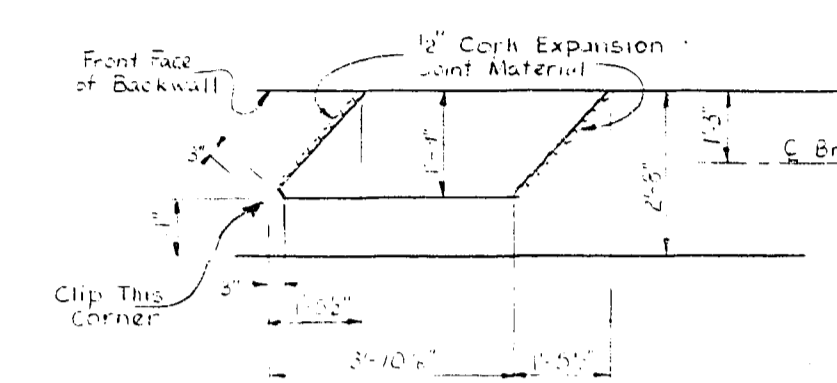
U.S. 62 OVER I.C.G. RAILROAD SHEET 8 OF 25

**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**

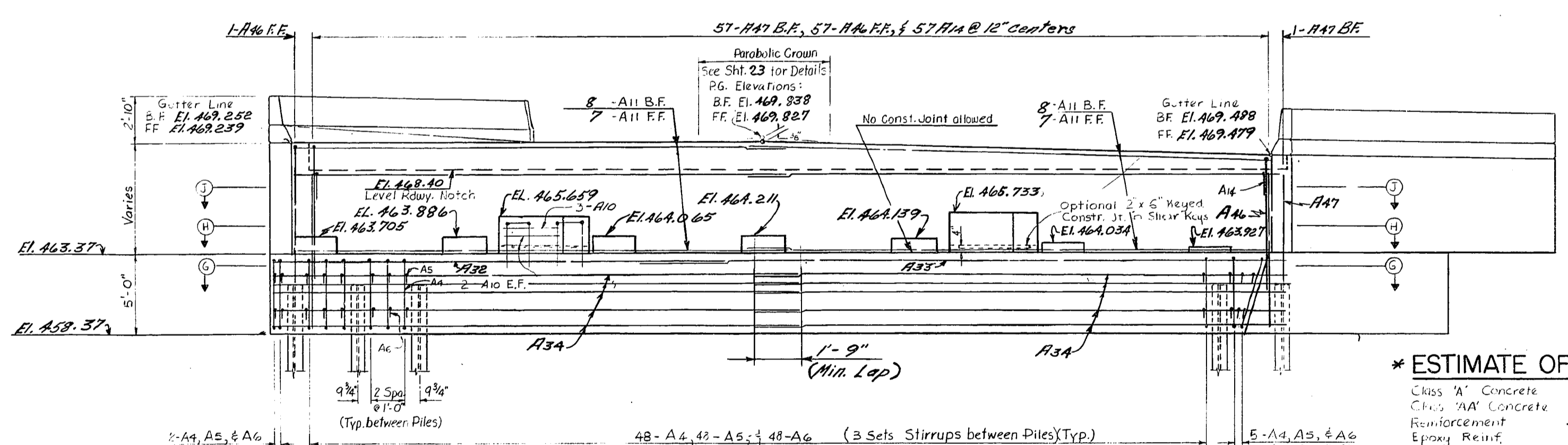
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 STATION 560+81.18 U.S. 62 P.E. PROJECT NO. 010-018 012D  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20492



PLAN



DETAIL A



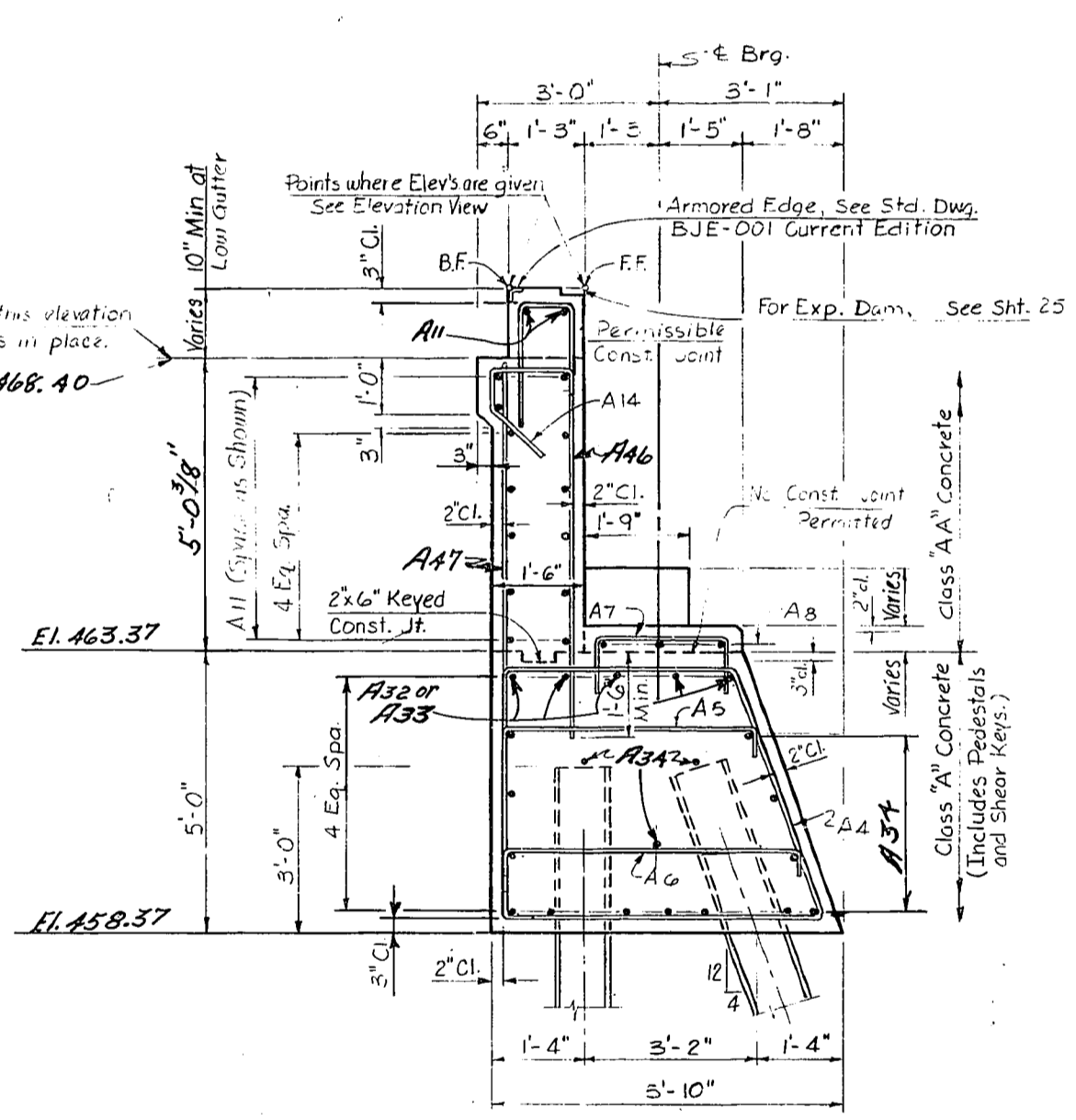
ELEVATION

\* ESTIMATE OF QUANTITIES

Class 'A' Concrete	68.50 Yds.
Class 'AA' Concrete	34.7 C.Y.
Reinforcement	9753 LBS.
Epoxy Reinf.	674 LBS.

NOTES:  
 No Construction Joint permitted between caps and piers.  
 F.F. denotes Front Face.  
 B.F. denotes Back Face.  
 See Sheet No. 12A for Sections A-G, H-H, J-J, & Footing Plan.  
 See Sheet No. 13A for Wingwall Details.  
 See Sheet No. 17A for Reinforcing Schedule.

\* Quantities Shown are Total Quantities for End Bent 1. See Sheet 17A for New Reinforcement Req'd.



TYPICAL SECTION THRU END BENT I

DESIGNED BY: D.W.K. CHECKED BY: DATE: 11/1/54  
 DRAWN BY: DATE: 11/1/54  
 REVISIONS:

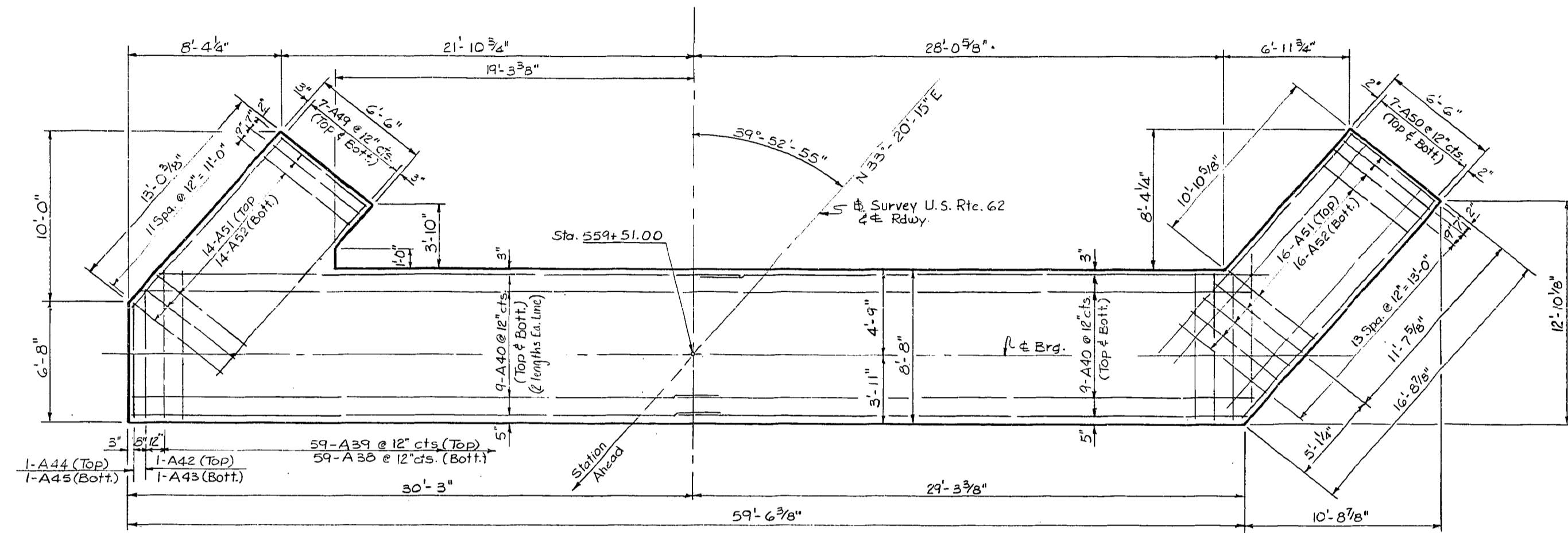
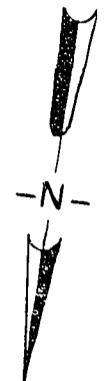
CONSTRUCTION REVISION END BENT I

U.S. 62 OVER I.C.G. RAILROAD SHEET 24 OF 25

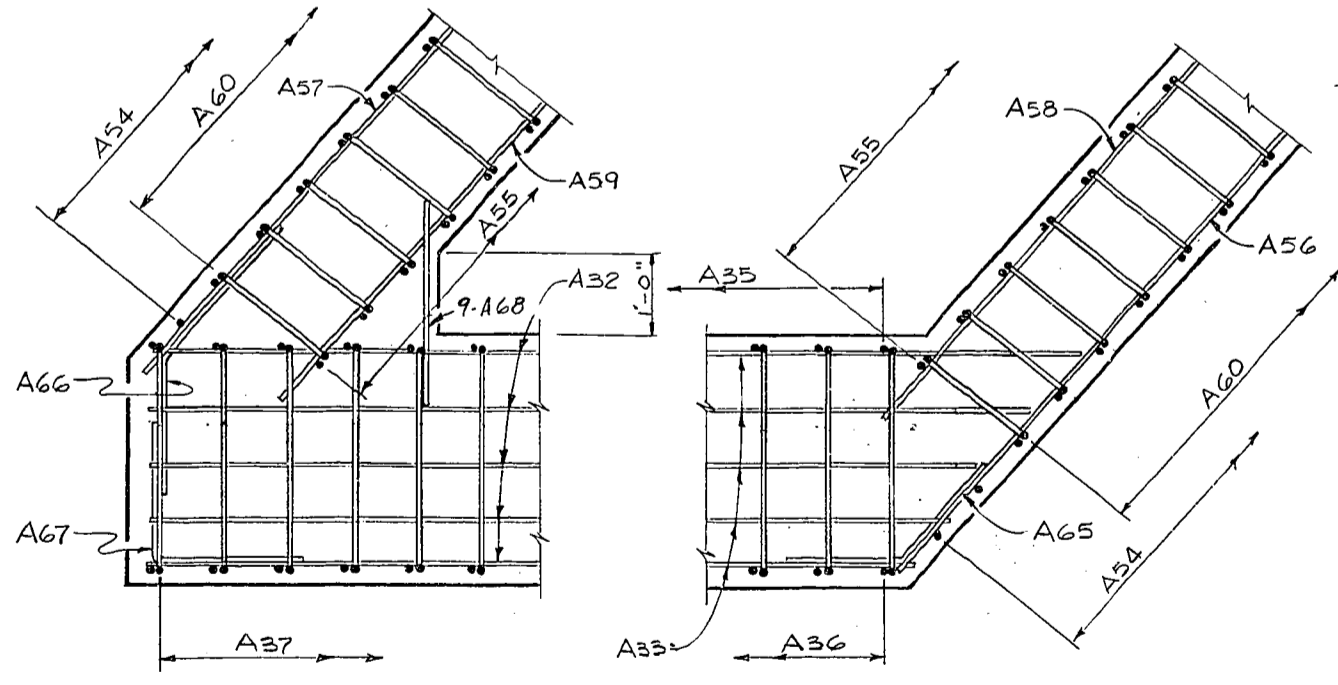
COMMONWEALTH OF KENTUCKY  
 BUREAU OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
 GREENVILLE-CENTRAL CITY U.S. 62  
 50+00 I.C.G. RR. ROAD 00RR 0001 000  
 SSP 089 0062  
 STATION 560+18.18 U.S. 62 PE. PROJECT NO. 010-018 012D  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20492



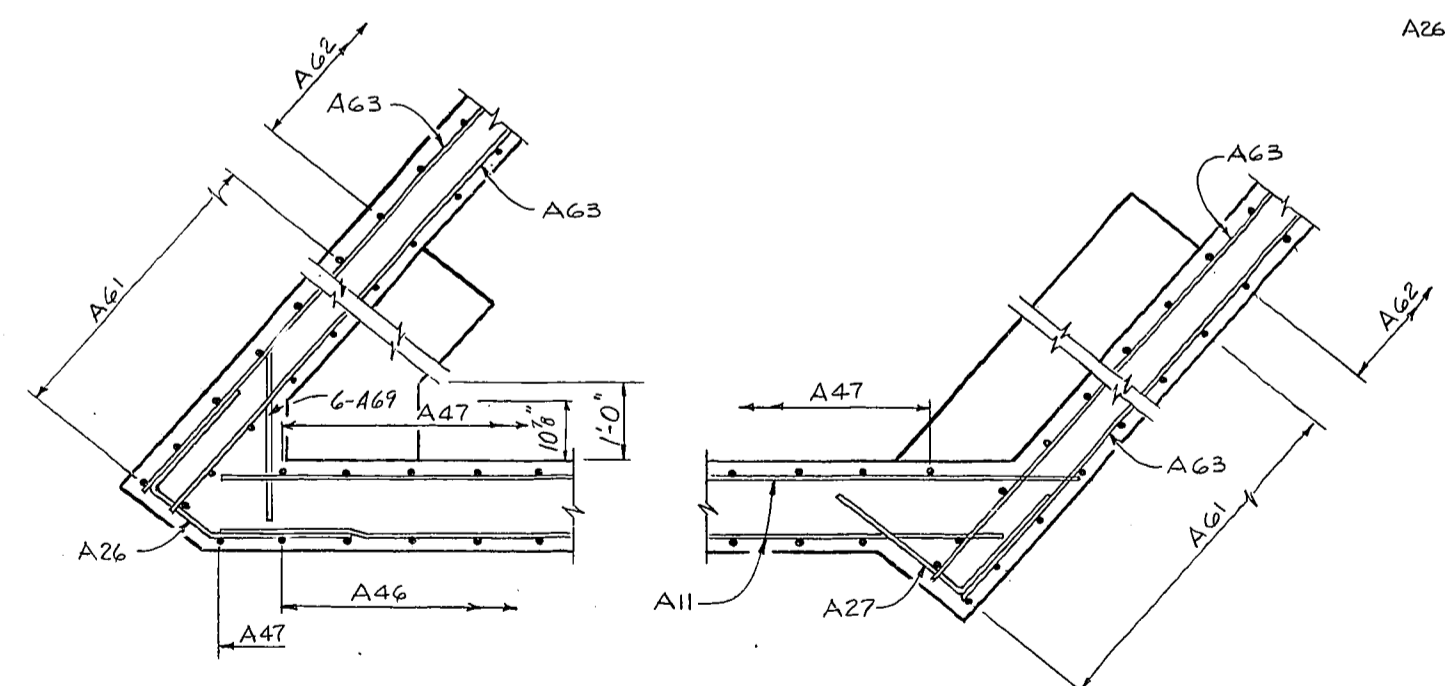
UPDATE DATE  
LETTING DATE



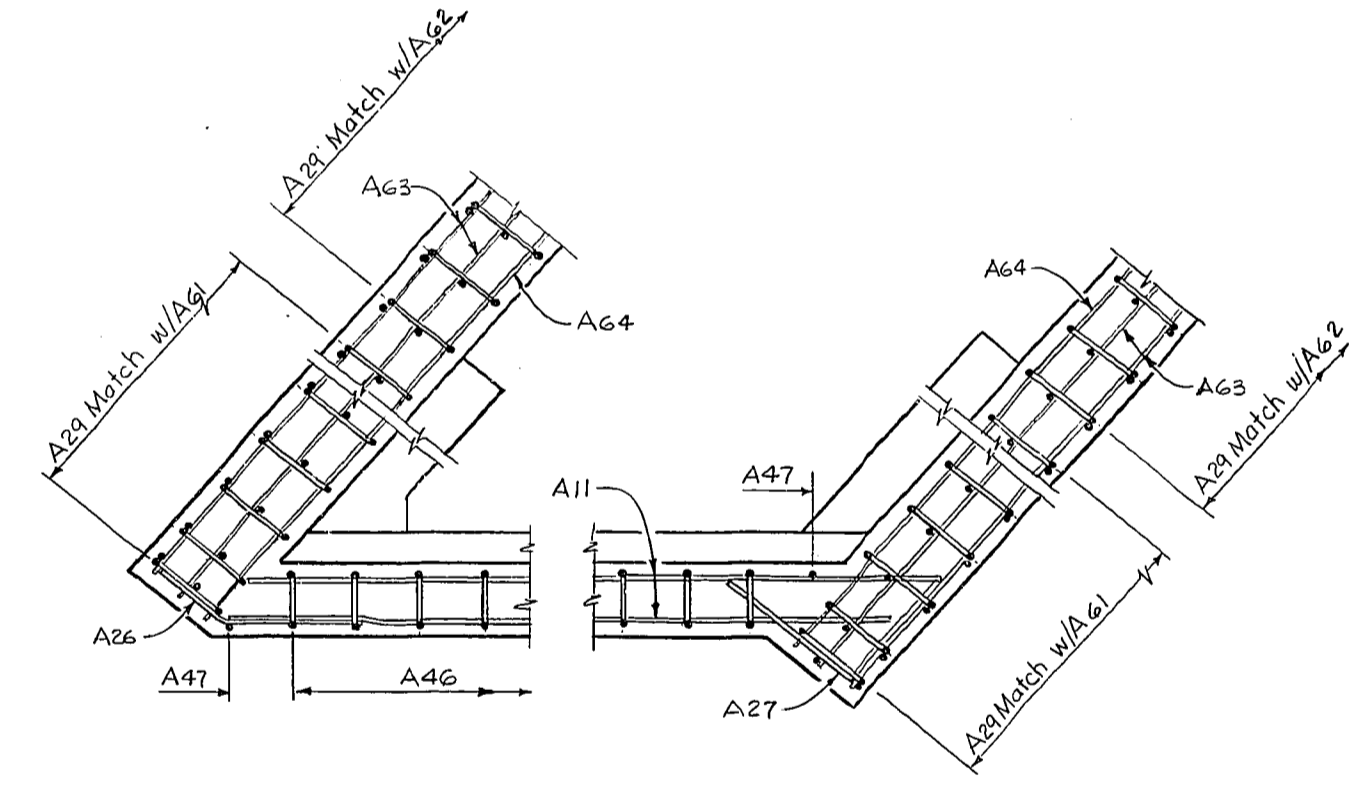
FOOTING PLAN



SECTION A-A



SECTION B-B



SECTION C-C

Void This Sheet See Sheet 9A

U.S. 62 OVER I.C.G. RAILROAD SHEET 9 OF 25

**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS

FRANKFORT  
COUNTY OF  
**MUHLLENBERG**

GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD OOORR 0001 000  
SPF 089 0062

STATION 530+81.6 U.S. 62 P.E. PROJECT NO. 010-018 012

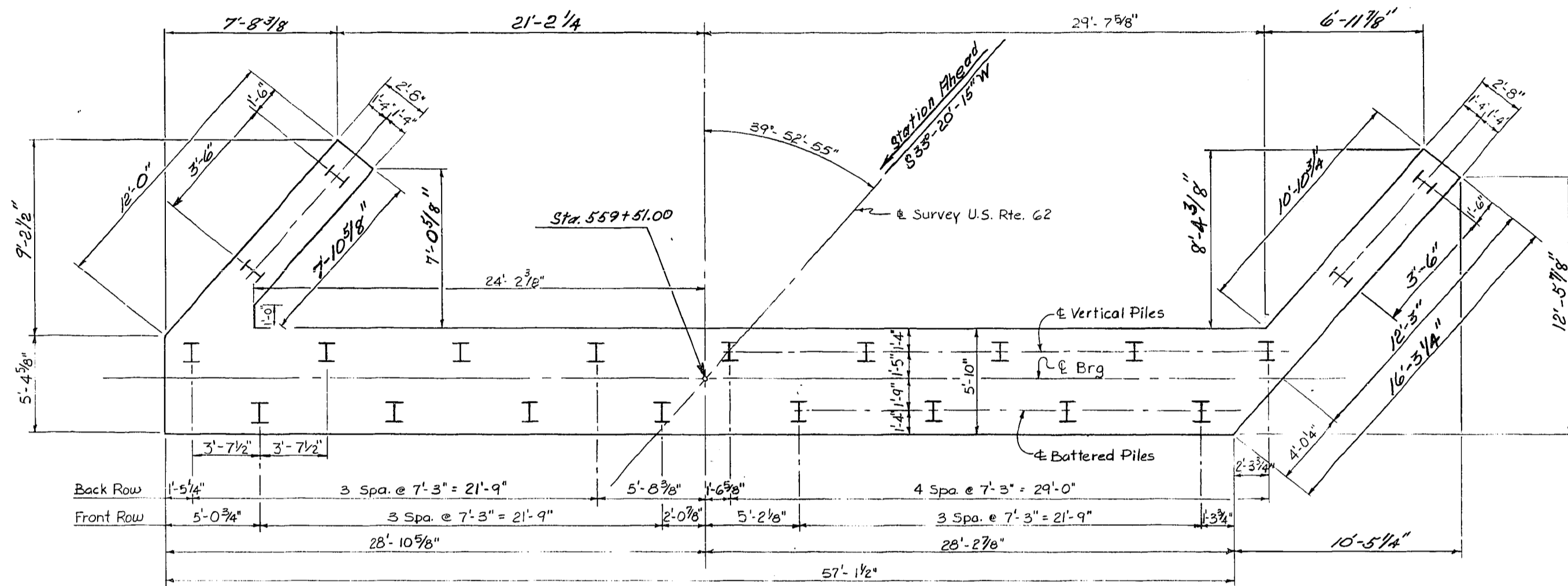
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20492

ABUTMENT I

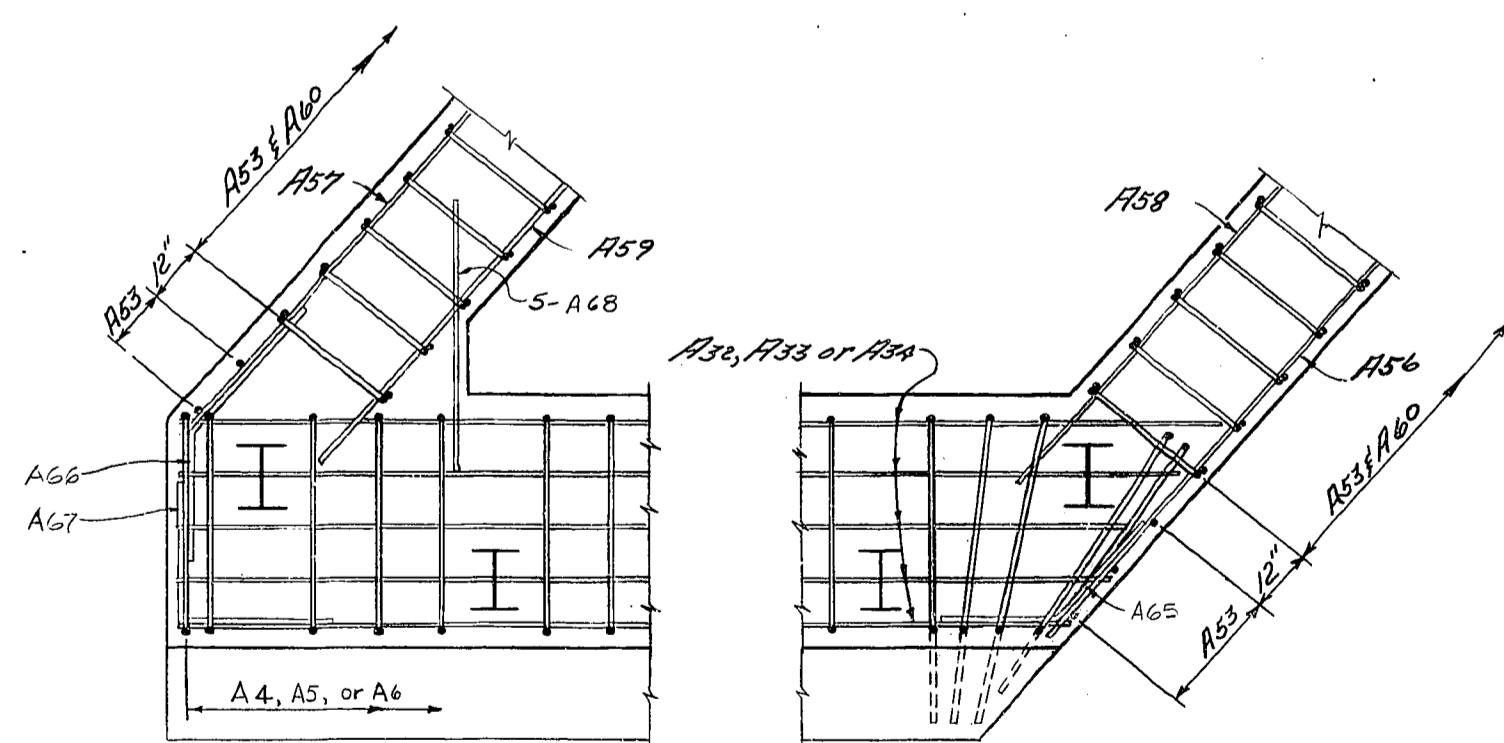
DESIGNED BY: GEP  
 CHECKED BY: J.P.  
 DATE: 5/13  
 DRAWING NO.: 20492  
 SHEET NO.: 9 OF 25  
 PROJECT NO.: 010-018 012  
 ROAD: U.S. 62  
 COUNTY: FRANKFORT  
 STATE: KENTUCKY

UPDATE DATE  
LETTING DATE

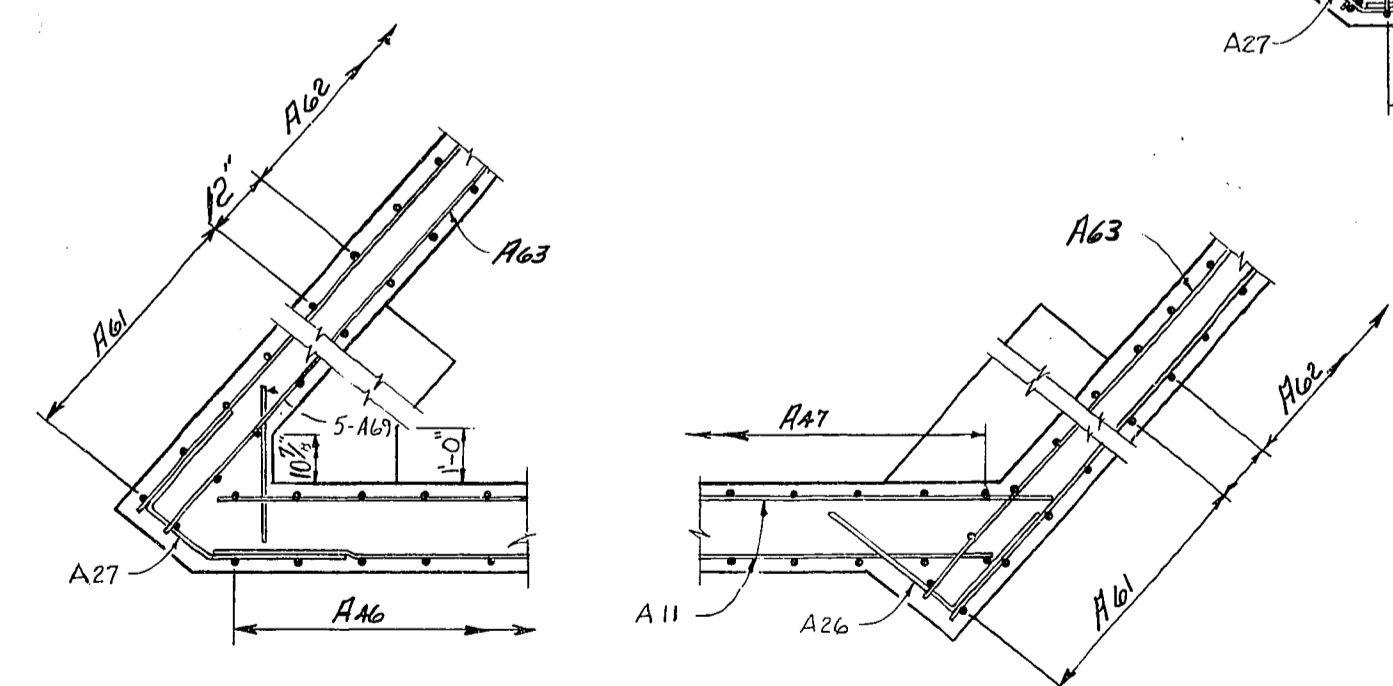
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 CHECKED BY: G.E.P.  
 DATE: 5/1/53  
 DRAWING NO. 20492  
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 ROAD 000RR 00011 000  
 STATION 500+00 U.S. 62  
 U.S. 62 OVER I.C.G. RAILROAD  
 SHEET 97 OF 25



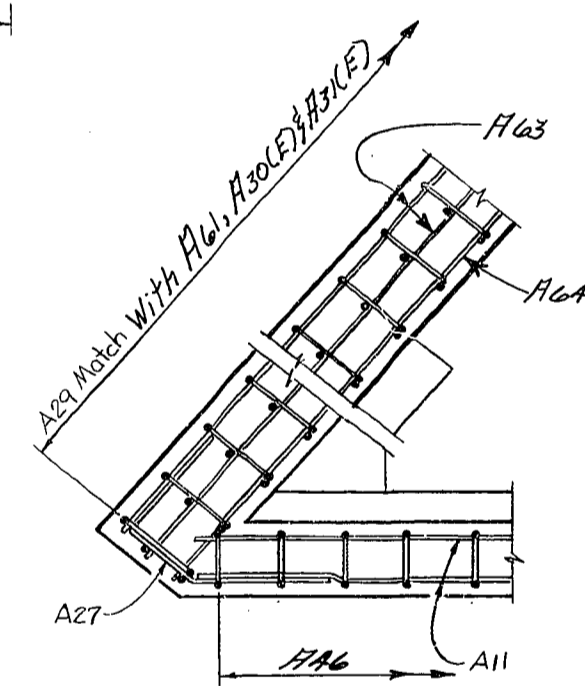
FOOTING PLAN



SECTION G-G



SECTION H-H



SECTION J-J

U.S. 62 OVER I.C.G. RAILROAD SHEET 97 OF 25

**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**  
 50+00 I.C.G. RR. ROAD 000RR 00011 000  
 STATION 500+00 U.S. 62 P.E. PROJECT NO. 010 010 Q10  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 20492

CONSTRUCTION REVISION

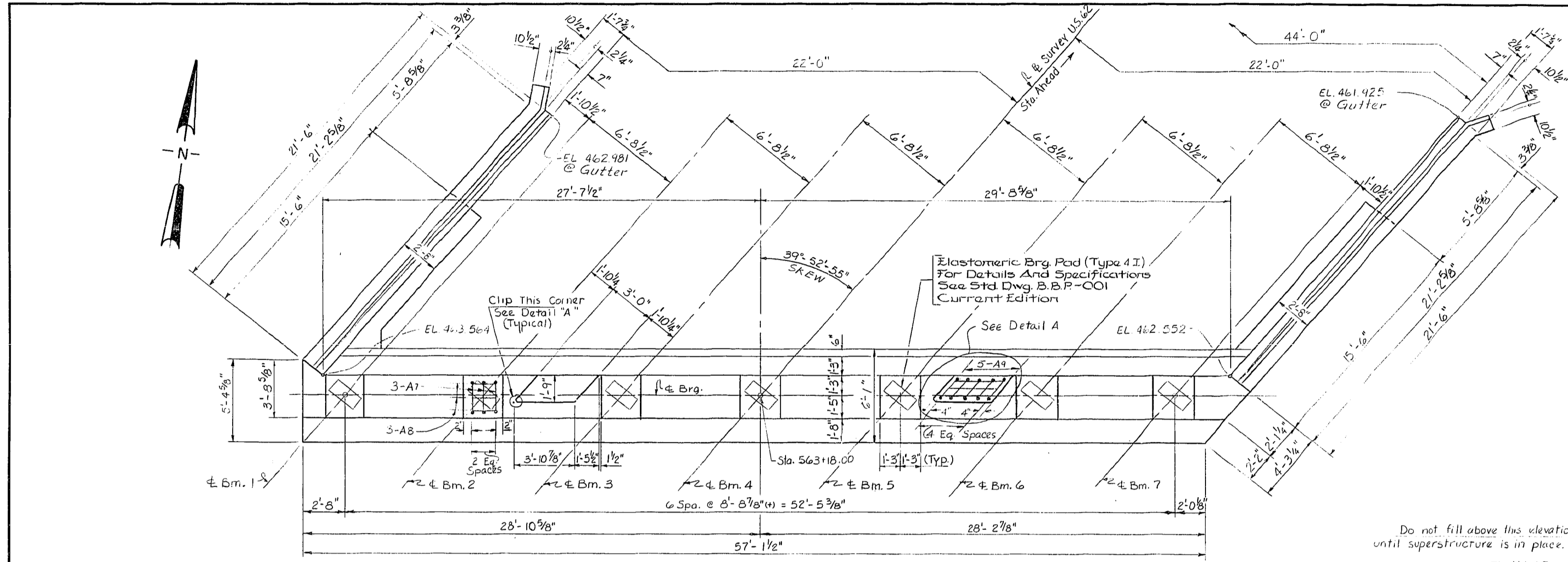
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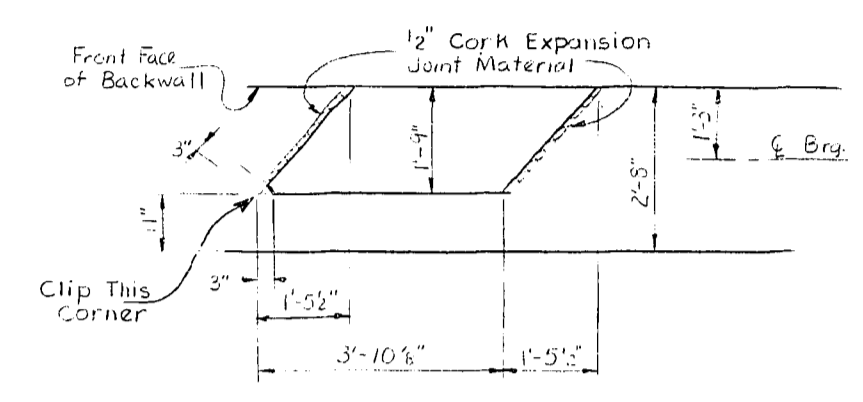




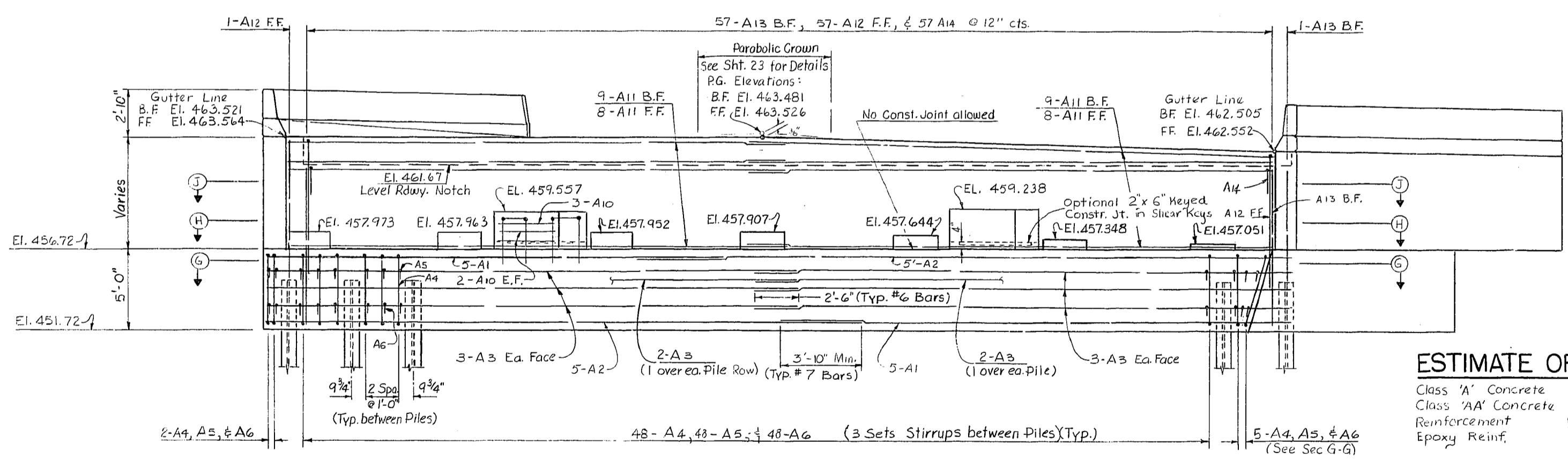




PLAN

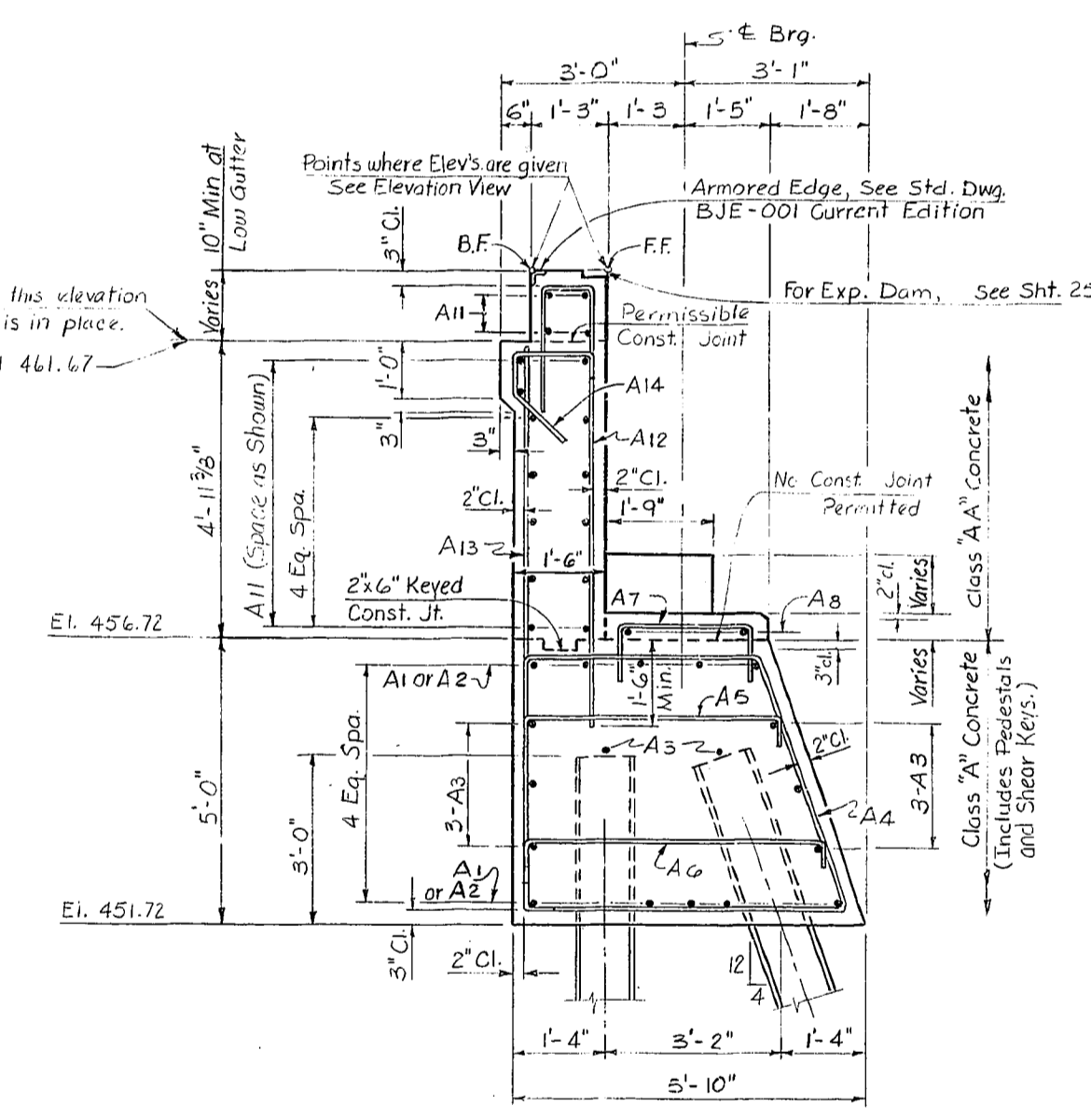


DETAIL A



ELEVATION

Do not fill above this elevation until superstructure is in place.  
El. 461.67



TYPICAL SECTION THRU END BENT 2

ESTIMATE OF QUANTITIES

Class 'A' Concrete	72.0 C.Yds.
Class 'AA' Concrete	36.3 C.Yds.
Reinforcement	11,175 Lbs.
Epoxy Reinf.	751 Lbs.

NOTES:  
 No Construction Joint permitted between cap and piers  
 F.F. denotes Front Face.  
 B.F. denotes Back Face.  
 See Sheet No. 12 for Sections G-G, H-H, J-J, & Footing Plan.  
 See Sheet No. 13 for Wingwall Details.  
 See Sheet No. 17 for Reinforcing Schedule.

END BENT 2

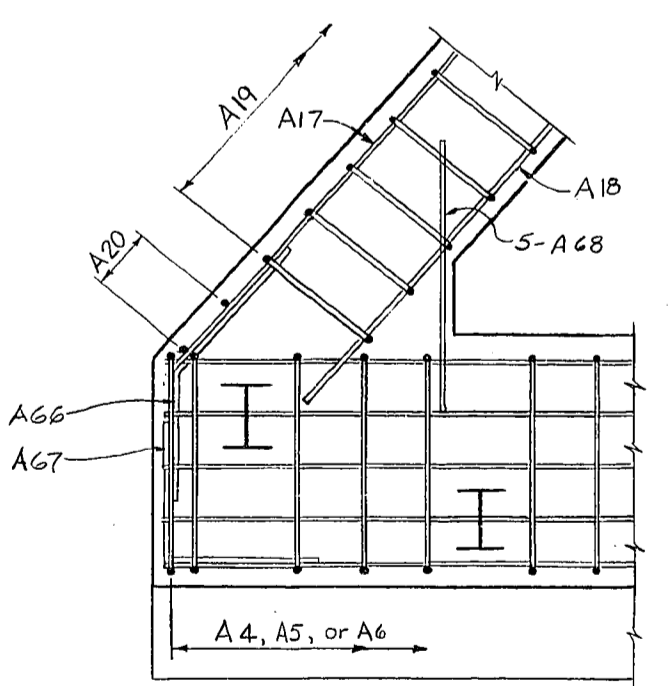
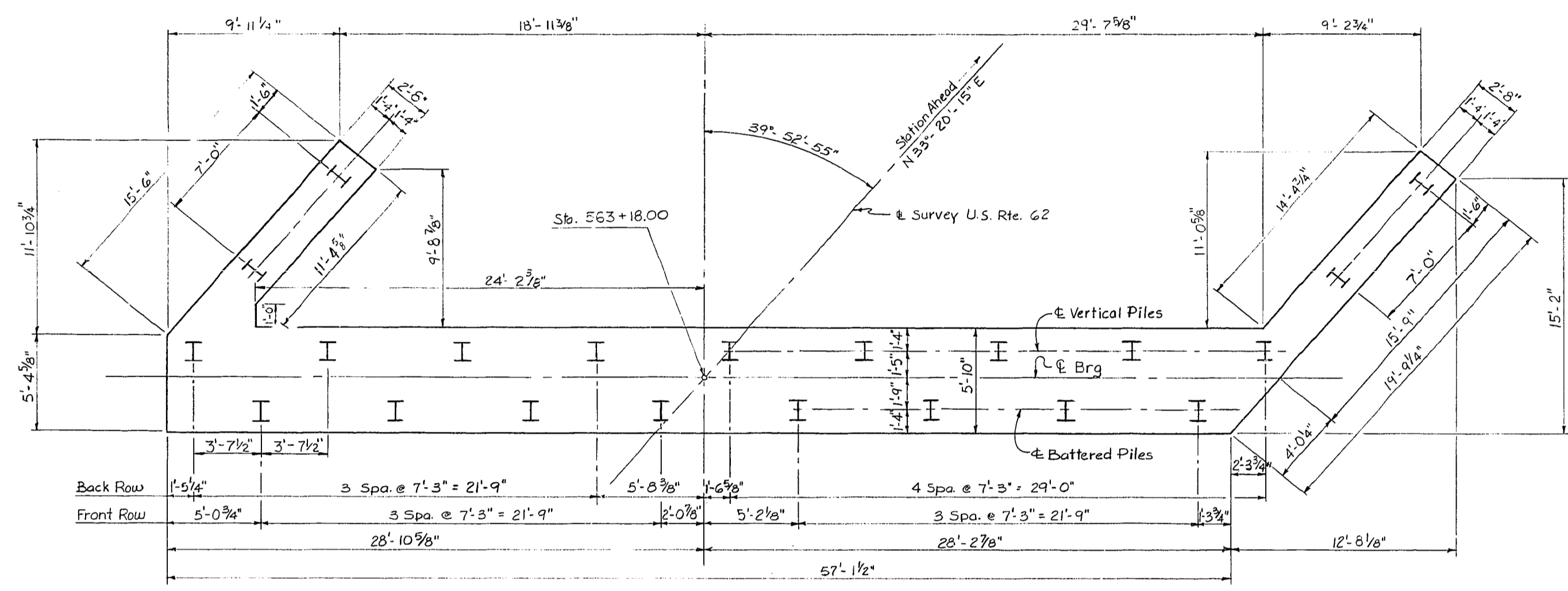
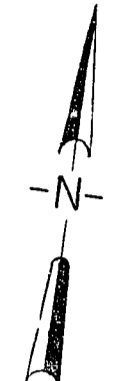
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U.S. 62 OVER I.C.G. RAILROAD SHEET 11 OF 25

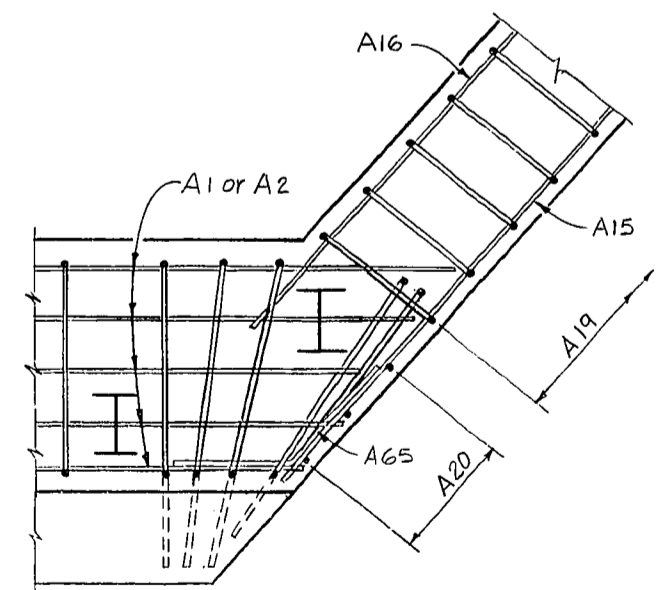
**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**  
 50+00 I.C.G. RR. ROAD 000RR 00011 000  
 SSP 089 0062

STATION 560+81.18 U.S.62 P.E. PROJECT NO. 010-018 012D  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20492

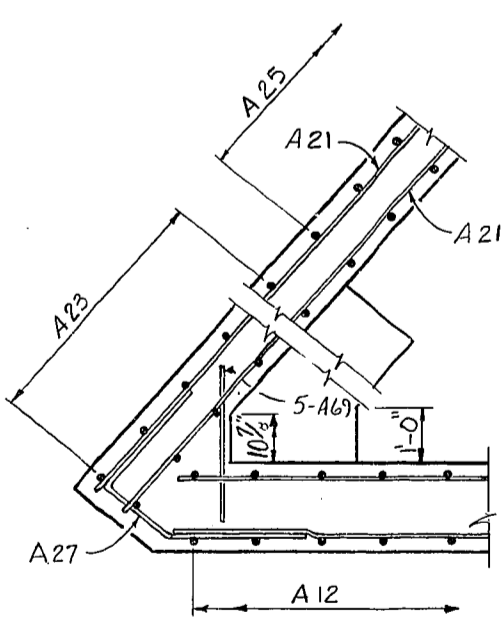
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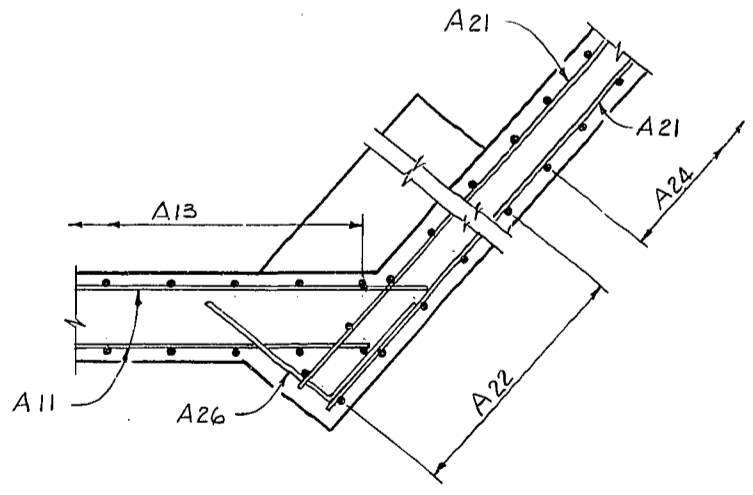
SECTION G-G



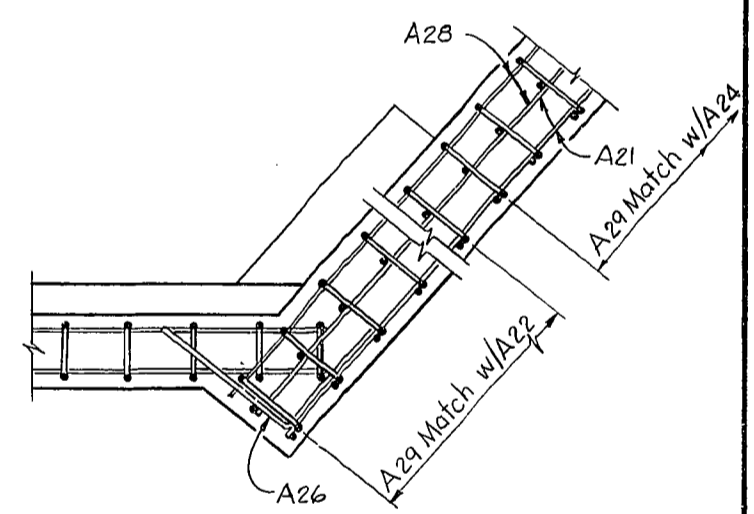
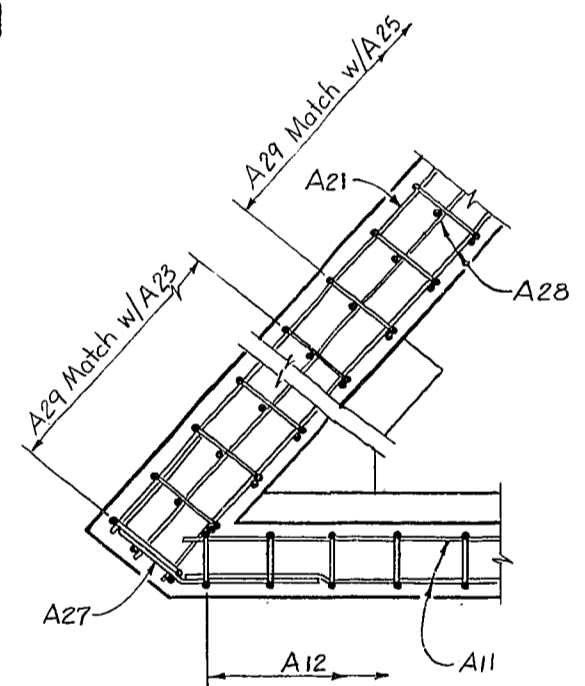
SECTION H-H



SECTION I-I



SECTION J-J



END BENT 2

DESIGNED BY: D.V.K. CHECKED BY: G.E.P. DATE: 5/83  
 DRAWN BY: D.V.K. CHECKED BY: G.E.P. DATE: 5/83  
 REVISIONS:

U.S. 62 OVER I.C.G. RAILROAD SHEET 12 OF 25

COMMONWEALTH OF KENTUCKY  
BUREAU OF HIGHWAYS

FRANKFORT  
COUNTY OF  
MUHLENBERG  
GREENVILLE-CENTRAL CITY U.S. 62

50+00 I.C.G. RR. ROAD 000RR 0001 000  
SSP 089 0062

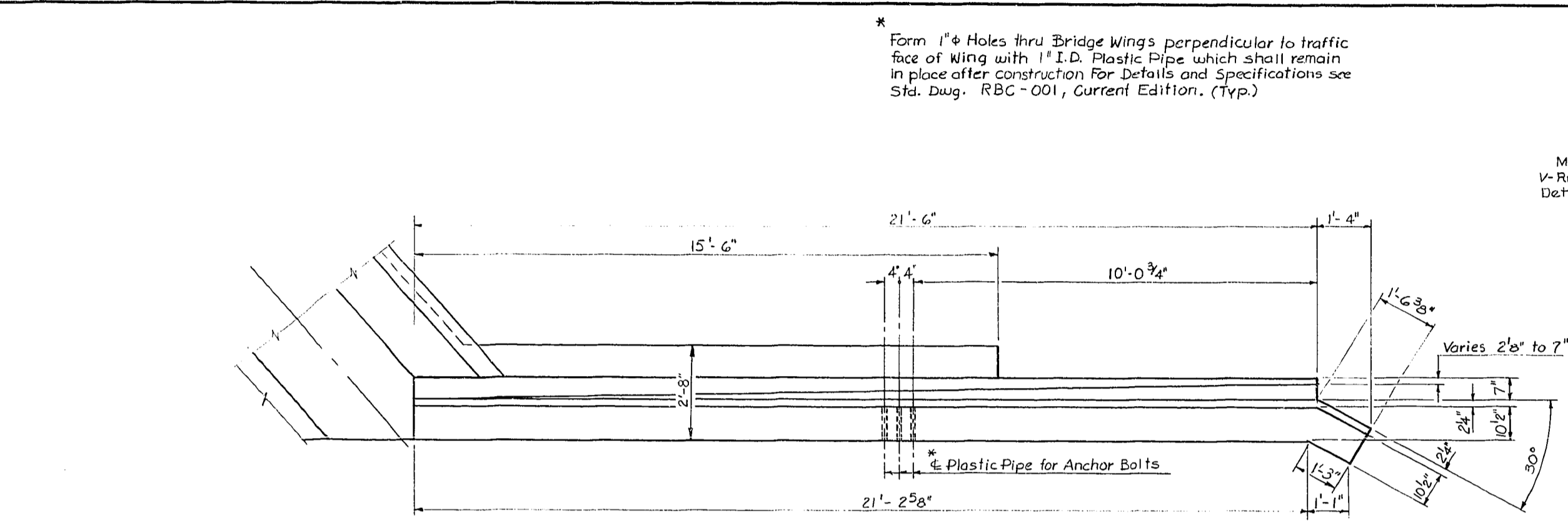
STATION 530+01.0 U.S. 62 P. E. PROJECT NO. 010-016 012D

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20492

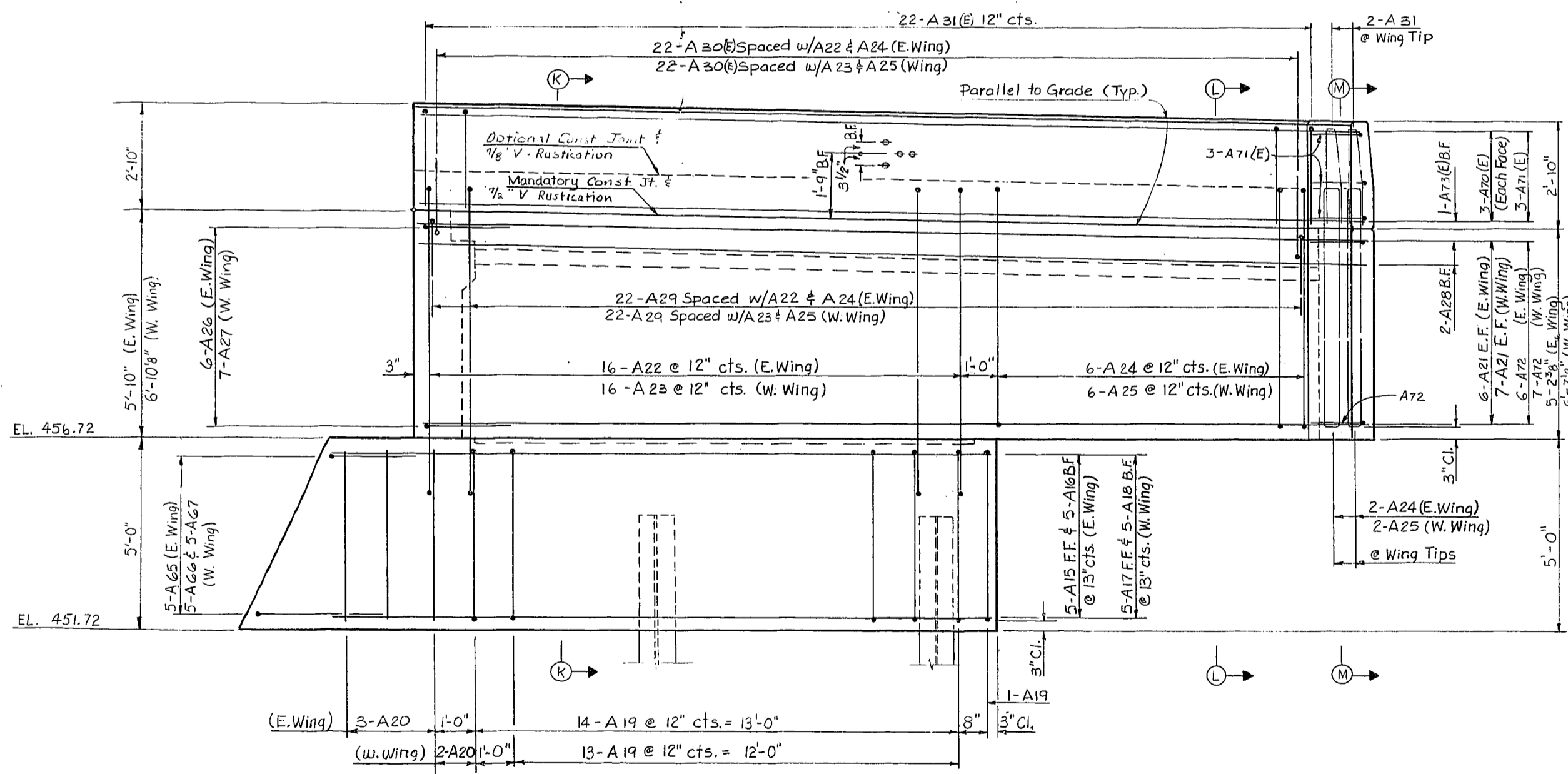


UPDATE DATE  
LETTING DATE

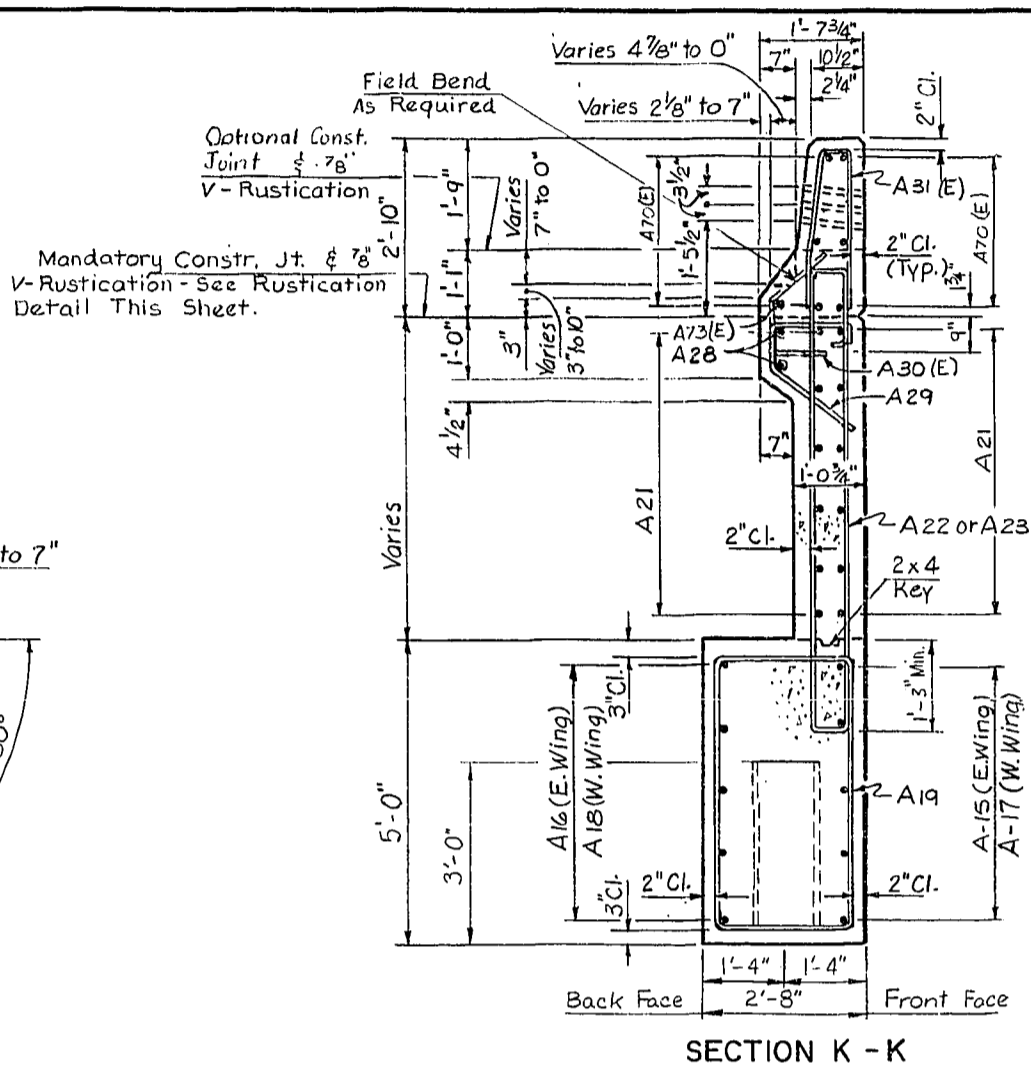
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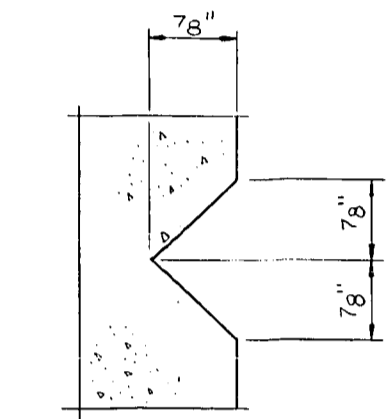
PLAN - WINGWALL END BENT 2  
(East Wing Shown - West Wing Similar)



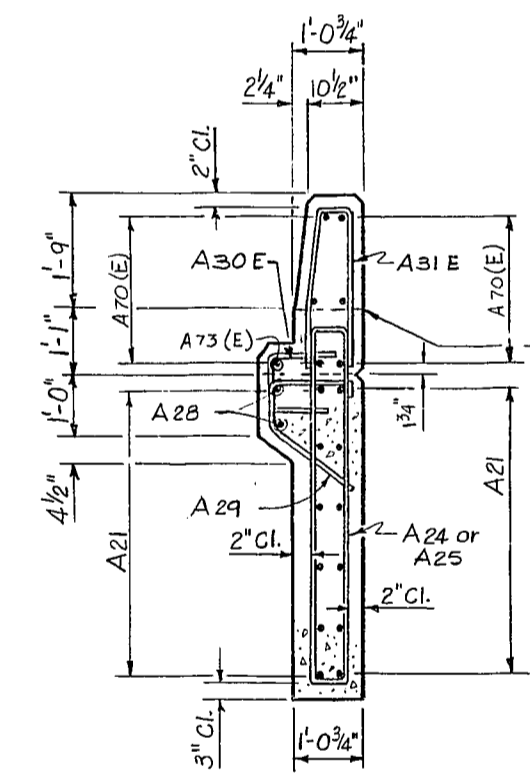
ELEVATION - WINGWALL END BENT 2  
(East Wing Shown - West Wing Similar)



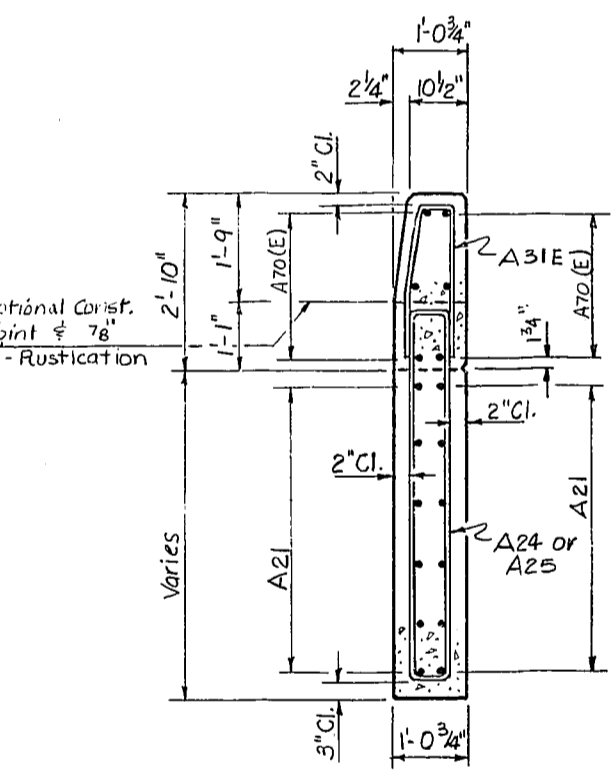
SECTION K-K



RUSTICATION DETAIL



SECTION L-L



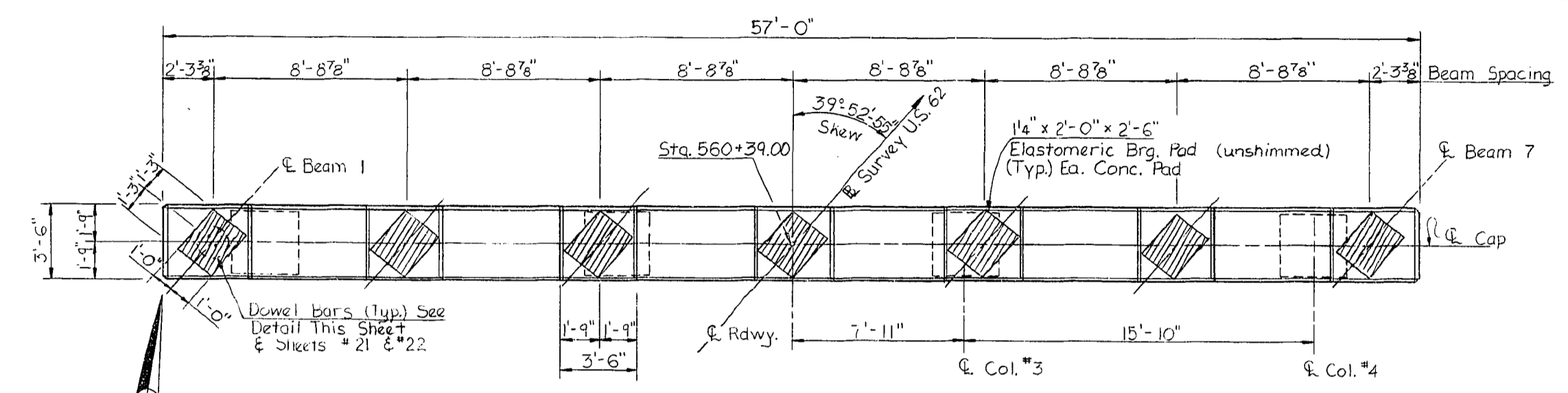
SECTION M-M

NOTES:  
See Sht. 11 for Plan & Elevation.  
See Sht. 12 for Ftg. Plan.  
See Sht. 17 for Reinforcing Schedule.

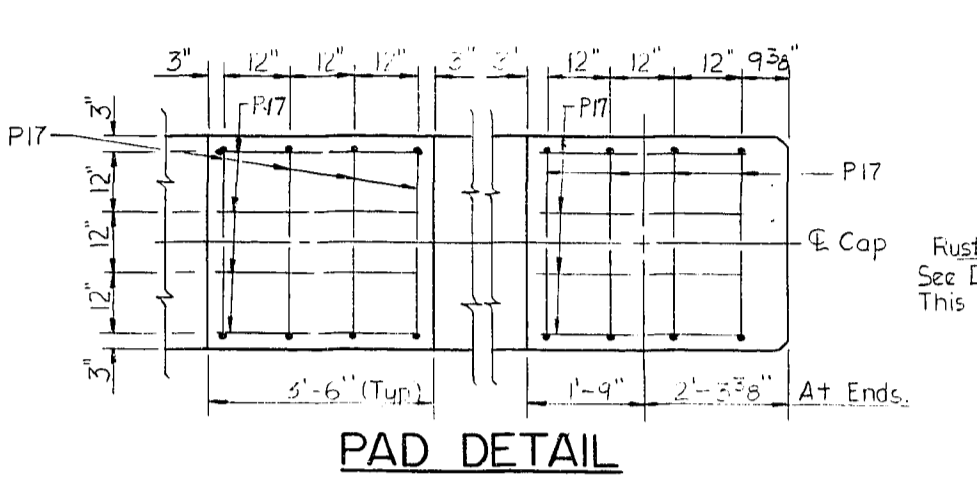
END BENT 2

U.S. 62 OVER I.C.G. RAILROAD SHEET 13 OF 25  
**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
**FRANKFORT**  
**COUNTY OF**  
**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**  
 50+00 I.C.G. RR. ROAD 000RR 00011 000  
 SSP 089 0062  
 STATION 550+10 U.S. 62 P.E. PROJECT NO. 010-010 012D  
 CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
 20492.

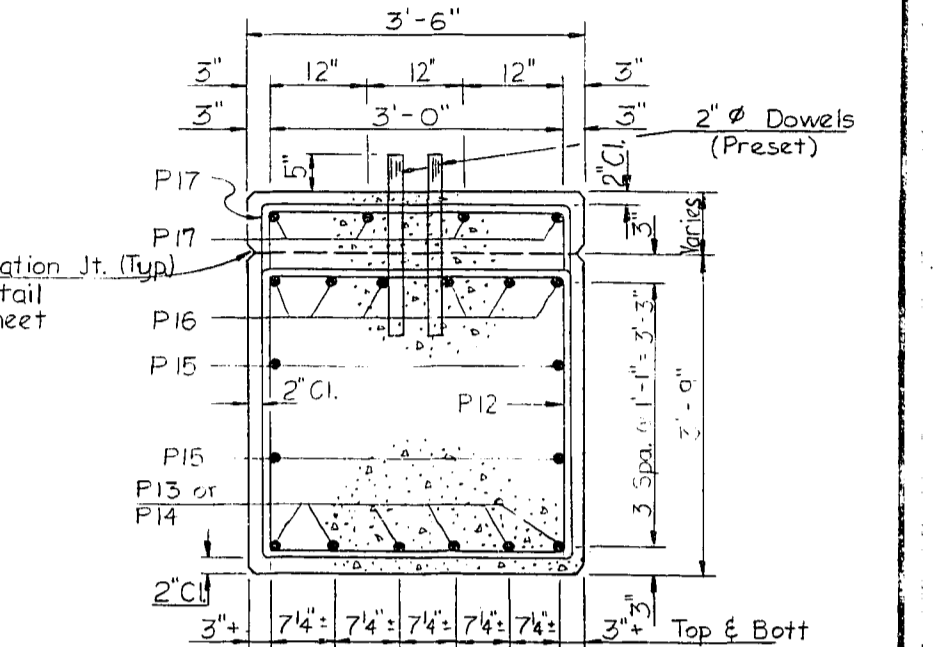
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LETTING DATE



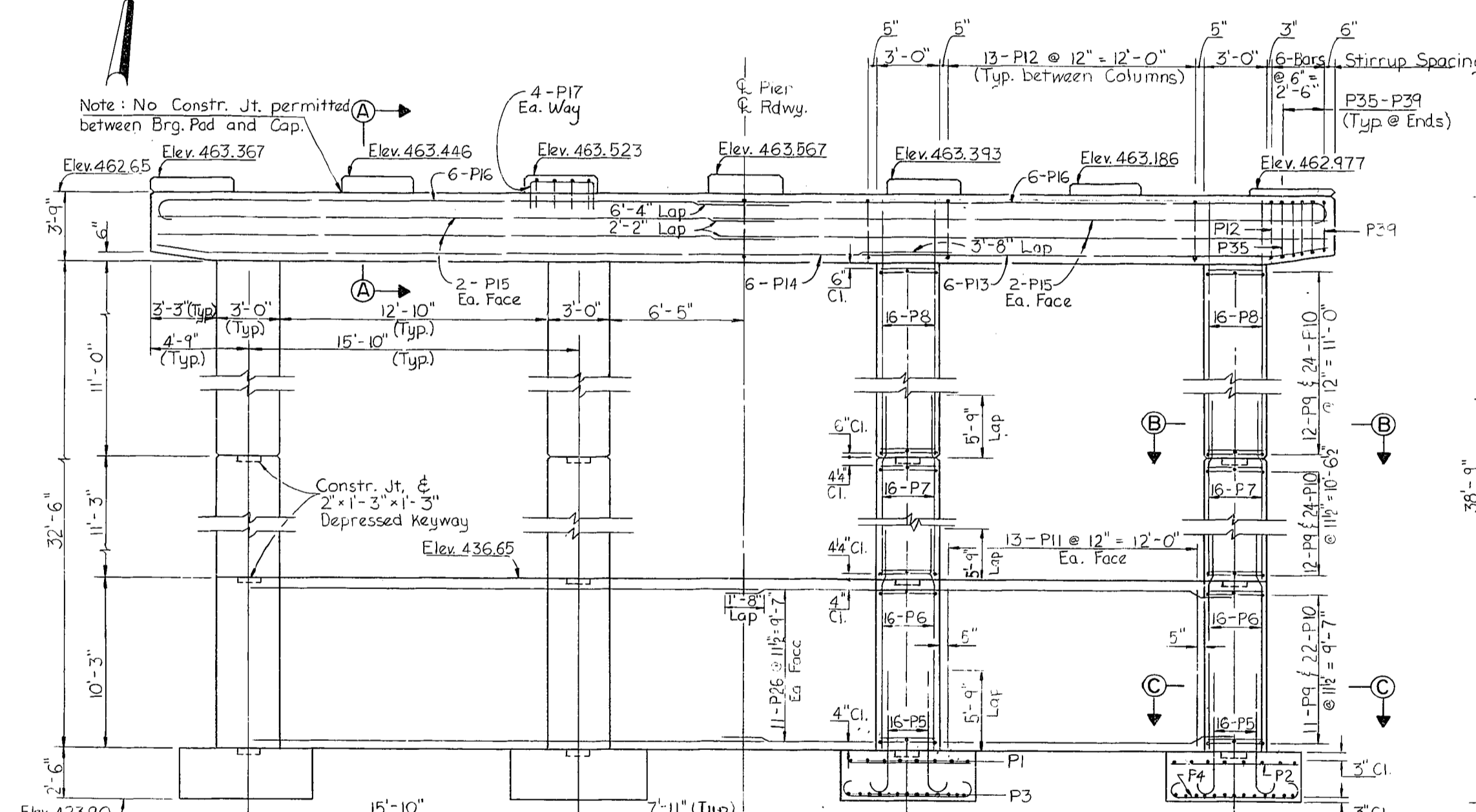
PLAN OF CAP



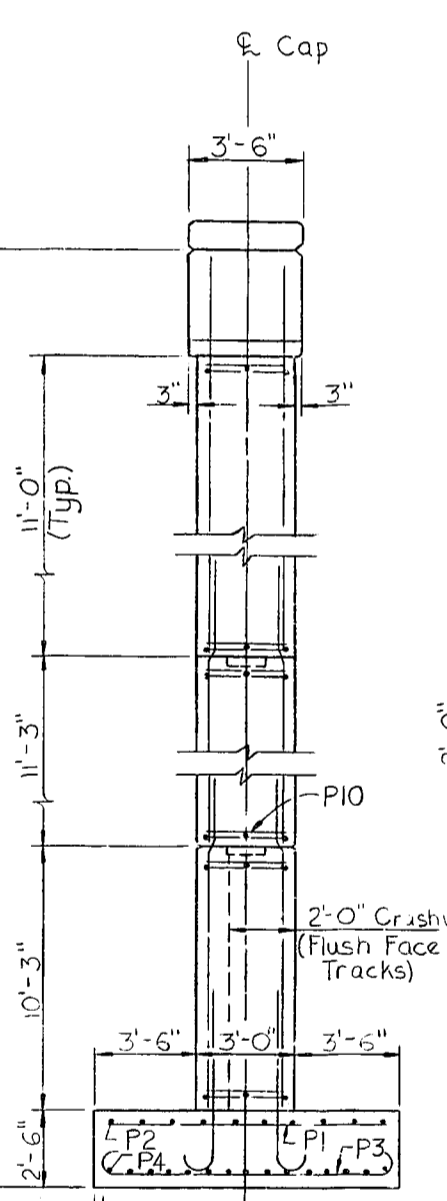
PAD DETAIL



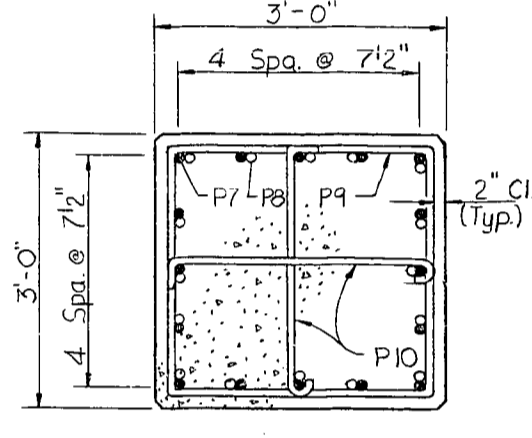
SECTION A-A



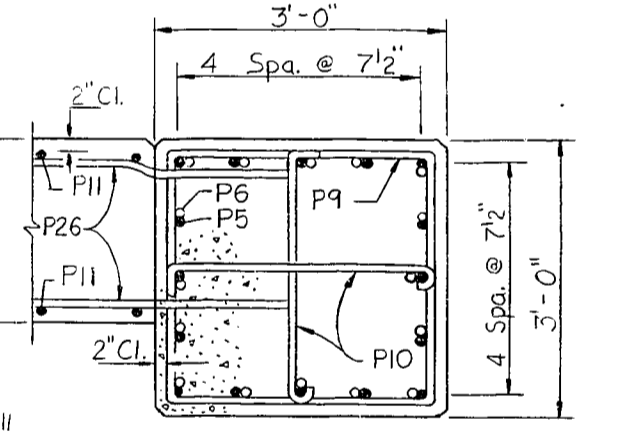
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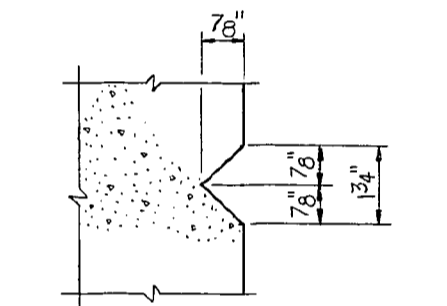
END VIEW



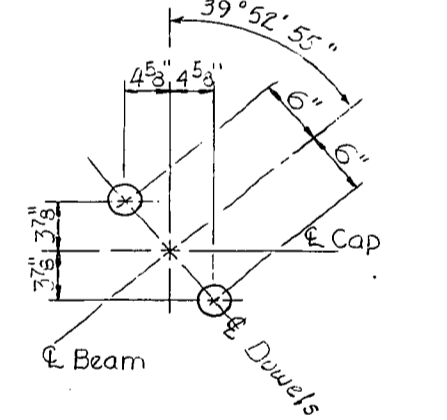
SECTION B-B



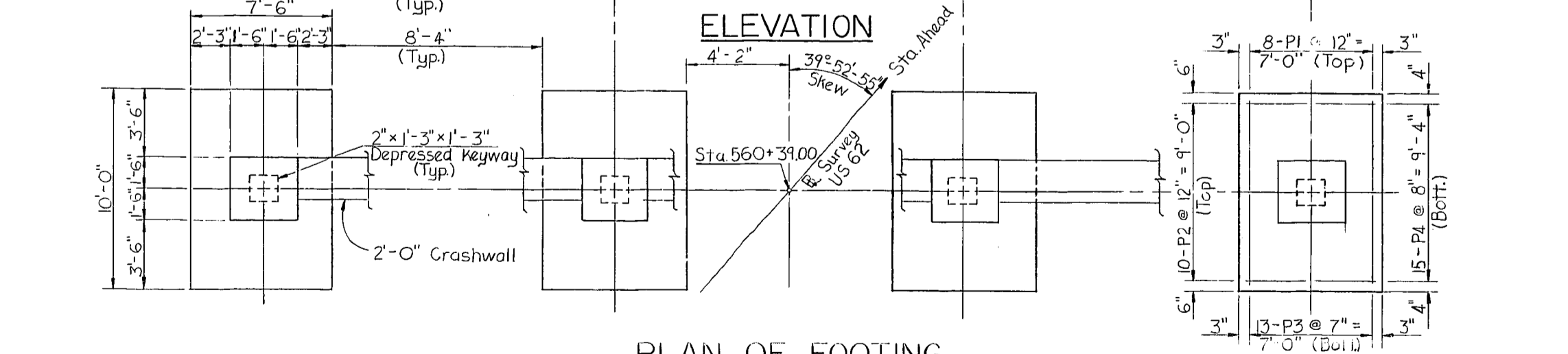
SECTION C-C



RUSTICATION DETAIL



DOWEL BAR DETAIL



PLAN OF FOOTING

ESTIMATE OF QUANTITIES

Concrete Class "A"	130.1 Cys.
Reinforcement	23,022 Lbs.

U.S. 62 OVER I.C.G. RAILROAD SHEET 14 OF 25

**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLENBERG**  
GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD 000RR 0001 000  
SSP 089 0062  
STATION 360+61.8 U.S. 62 P.L. PROJECT NO. 010-018 0121

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20492

PIER I

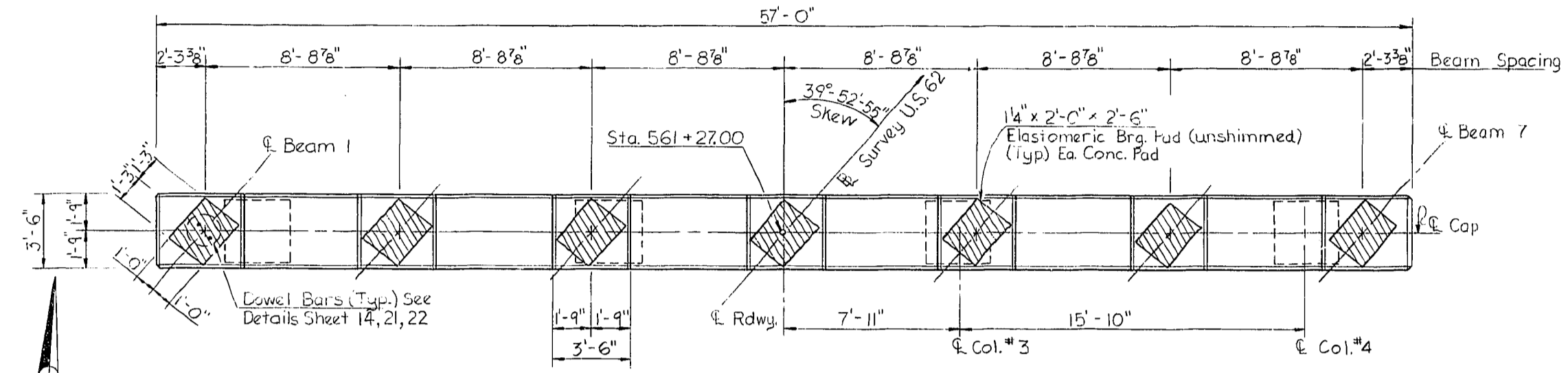
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CHECKED BY  
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BY  
APPROVED BY  
DATE  
BY

DATE: 5/83  
BY: G.E.P.  
CHECKED BY: G.E.P.  
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BY: G.E.P.

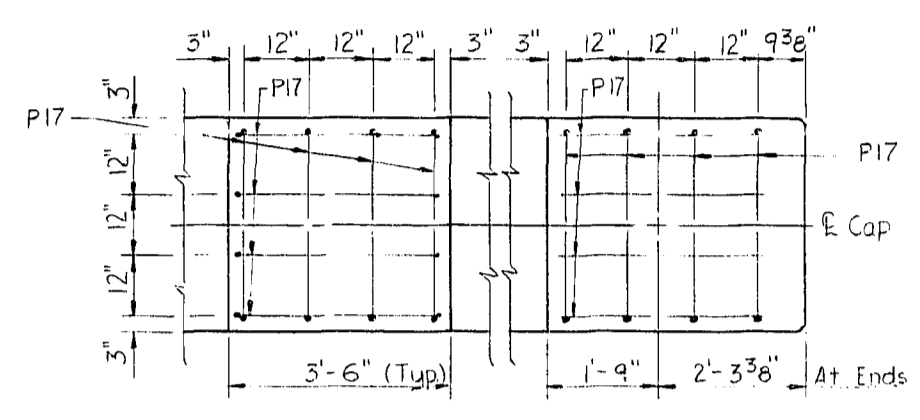
DIETZEN 11-76



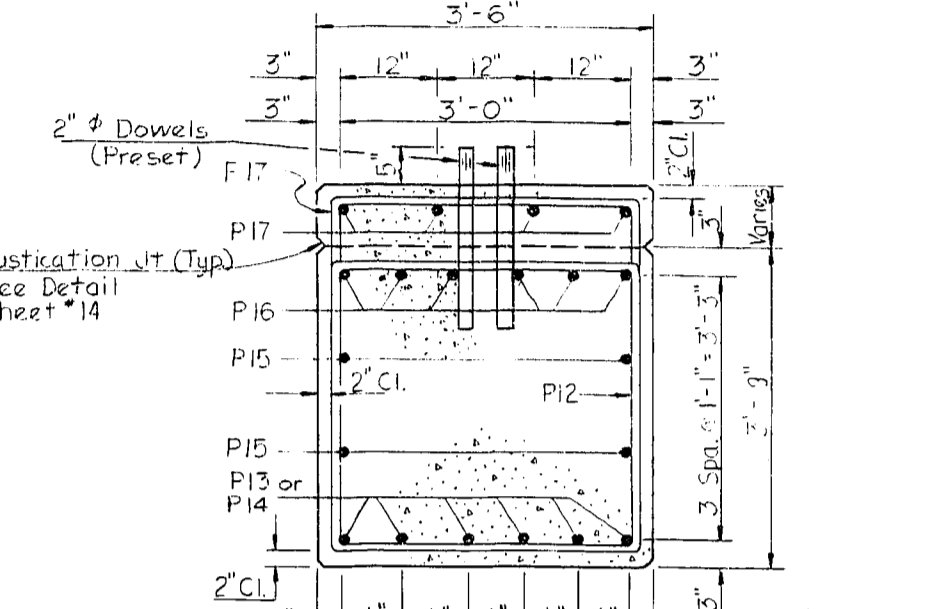
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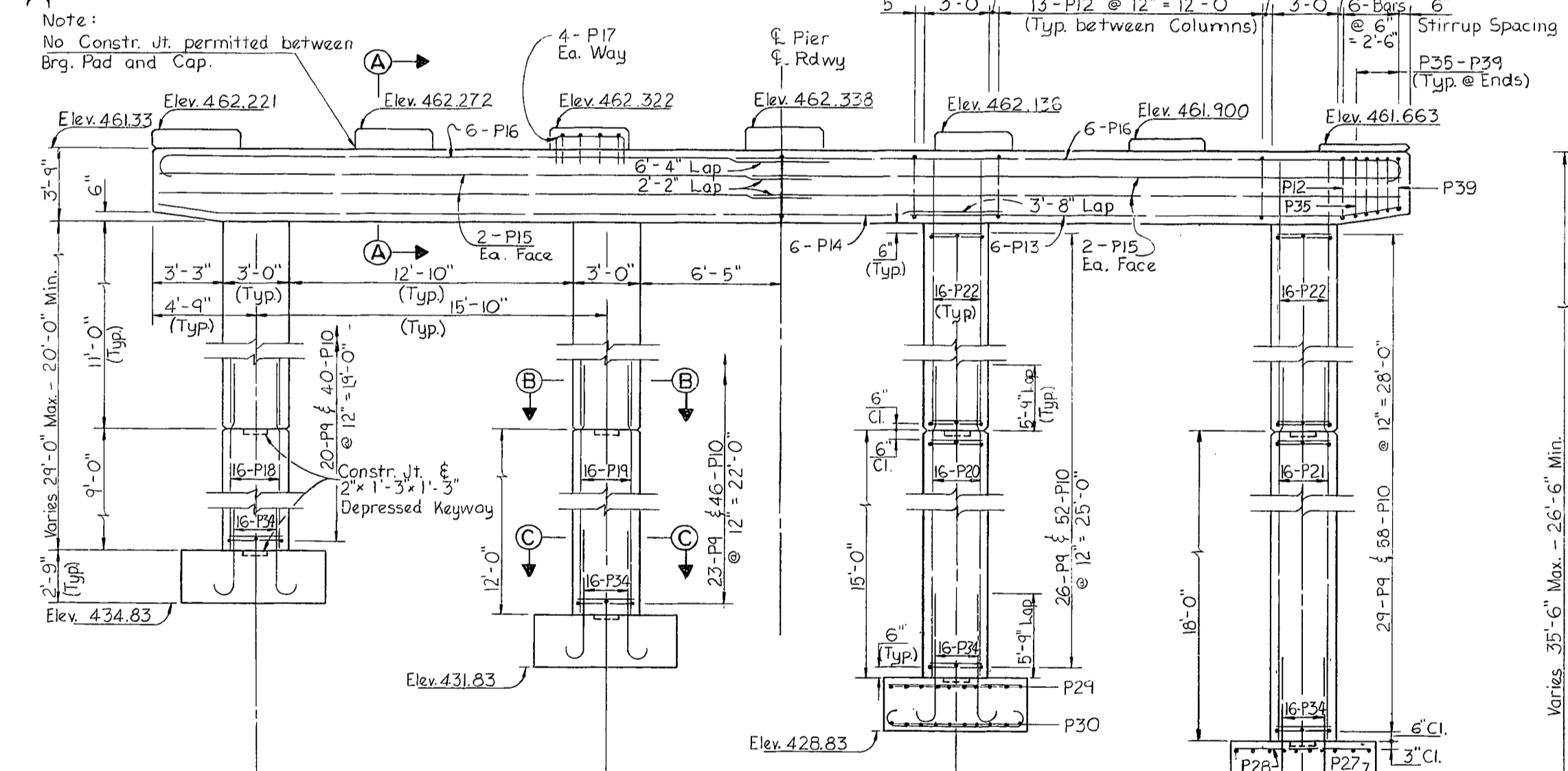
PLAN OF CAP



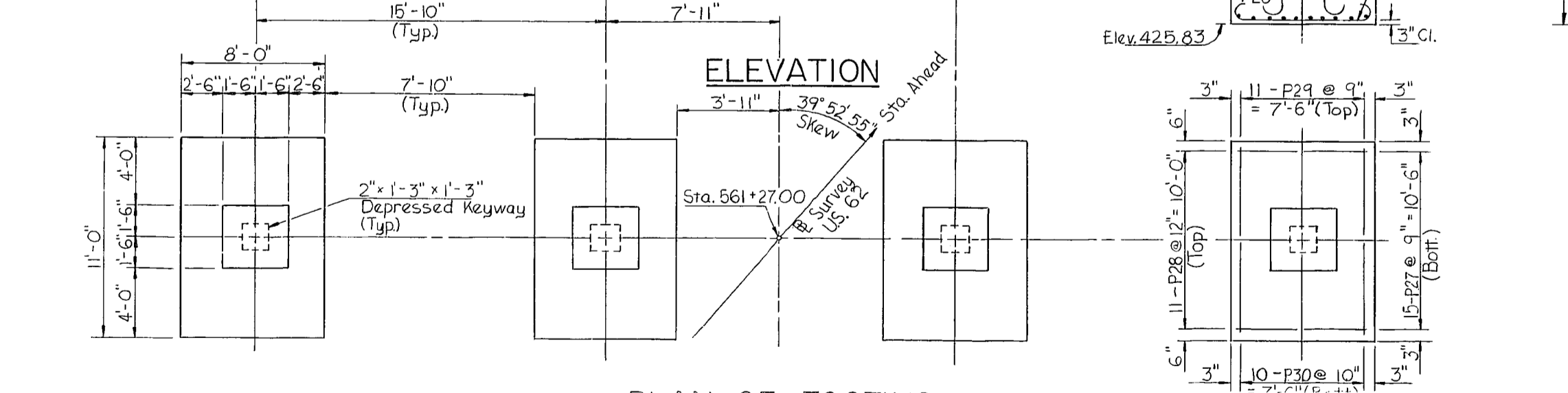
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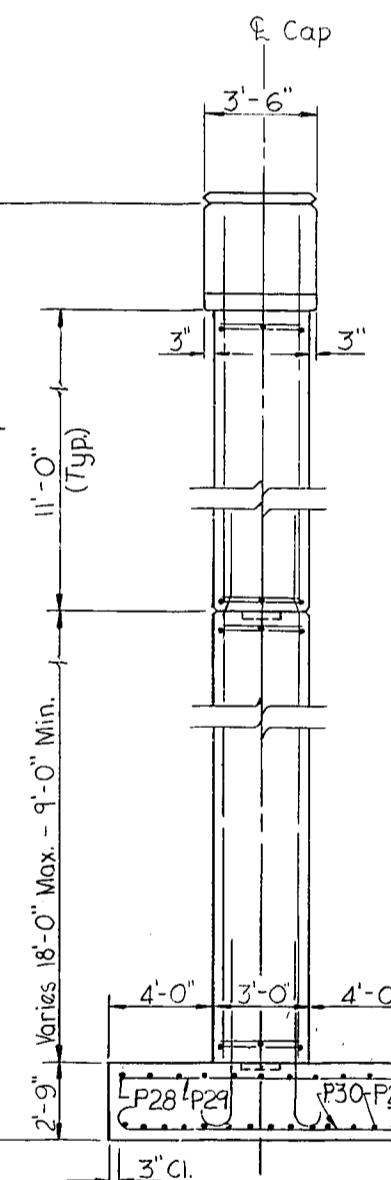
SECTION A-A



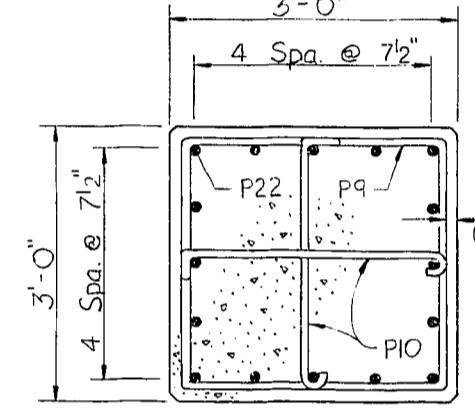
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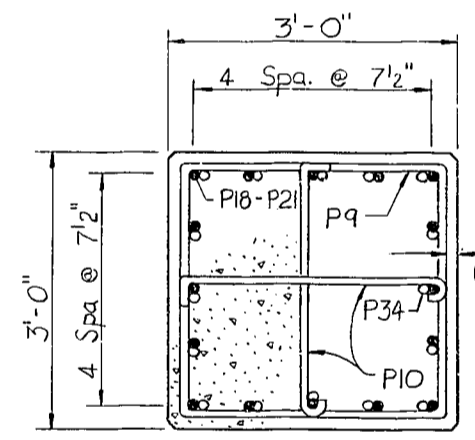
PLAN OF FOOTING



END VIEW



SECTION B-B



SECTION C-C

ESTIMATE OF QUANTITIES

Concrete Class "A"	98.6 Cys.
Reinforcement	17,958 Lbs.

U.S. 62 OVER I.C.G. RAILROAD SHEET 15 OF 25

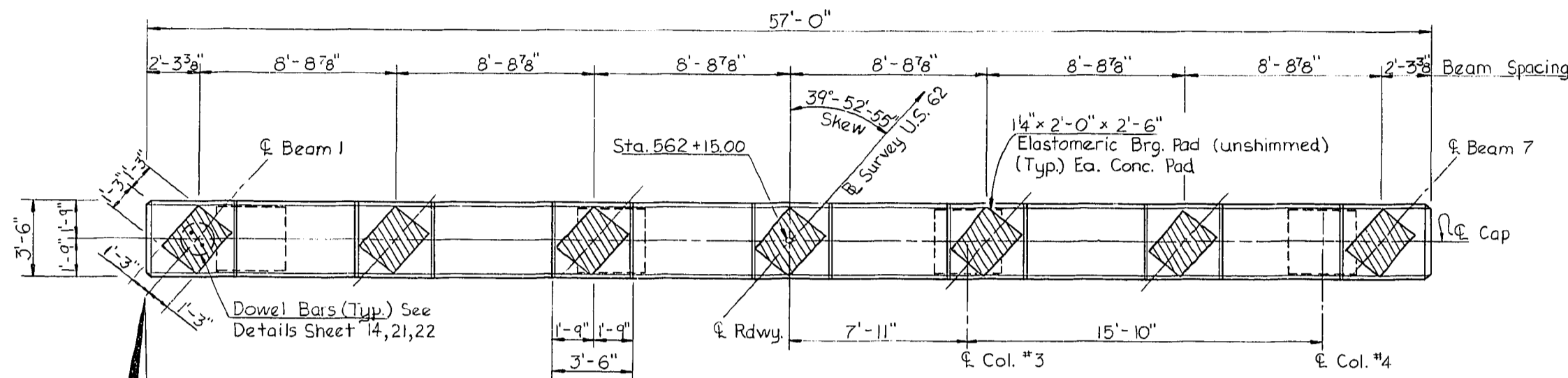
**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLENBERG**  
GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD 000RR 0001 000  
SSP 089 0082  
STATION: 560+01.0 U.S. 62 P.E. PROJECT NO. 010-010 C12D

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20492

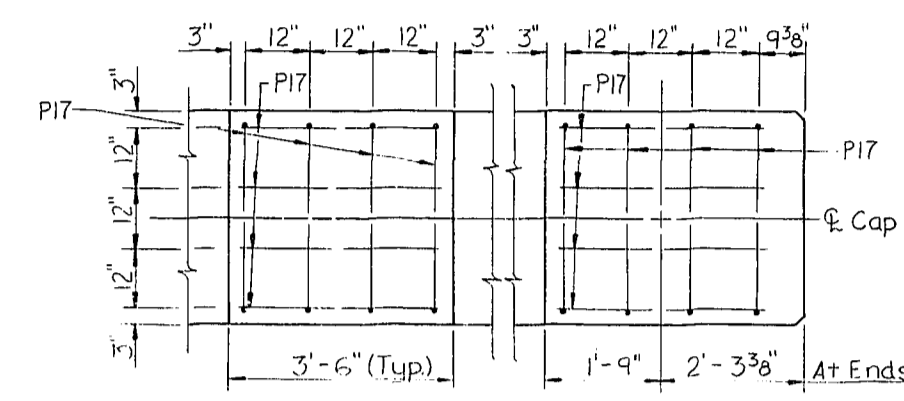
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DESIGNED BY: D.V.K. CHECKED BY: G.E.P. DATE: 5/1/83  
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 REVISIONS: 1. D.L. DATE: 5/1/83  
 CHECKED BY: G.E.P. DATE: 5/1/83  
 TRACED BY: DATE:

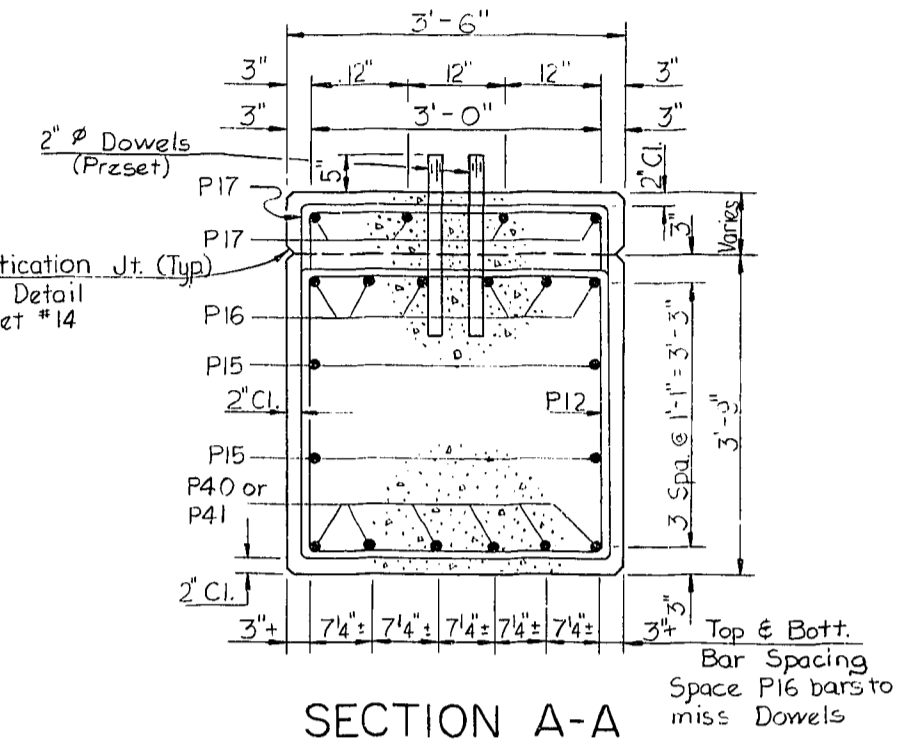
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LETTING DATE



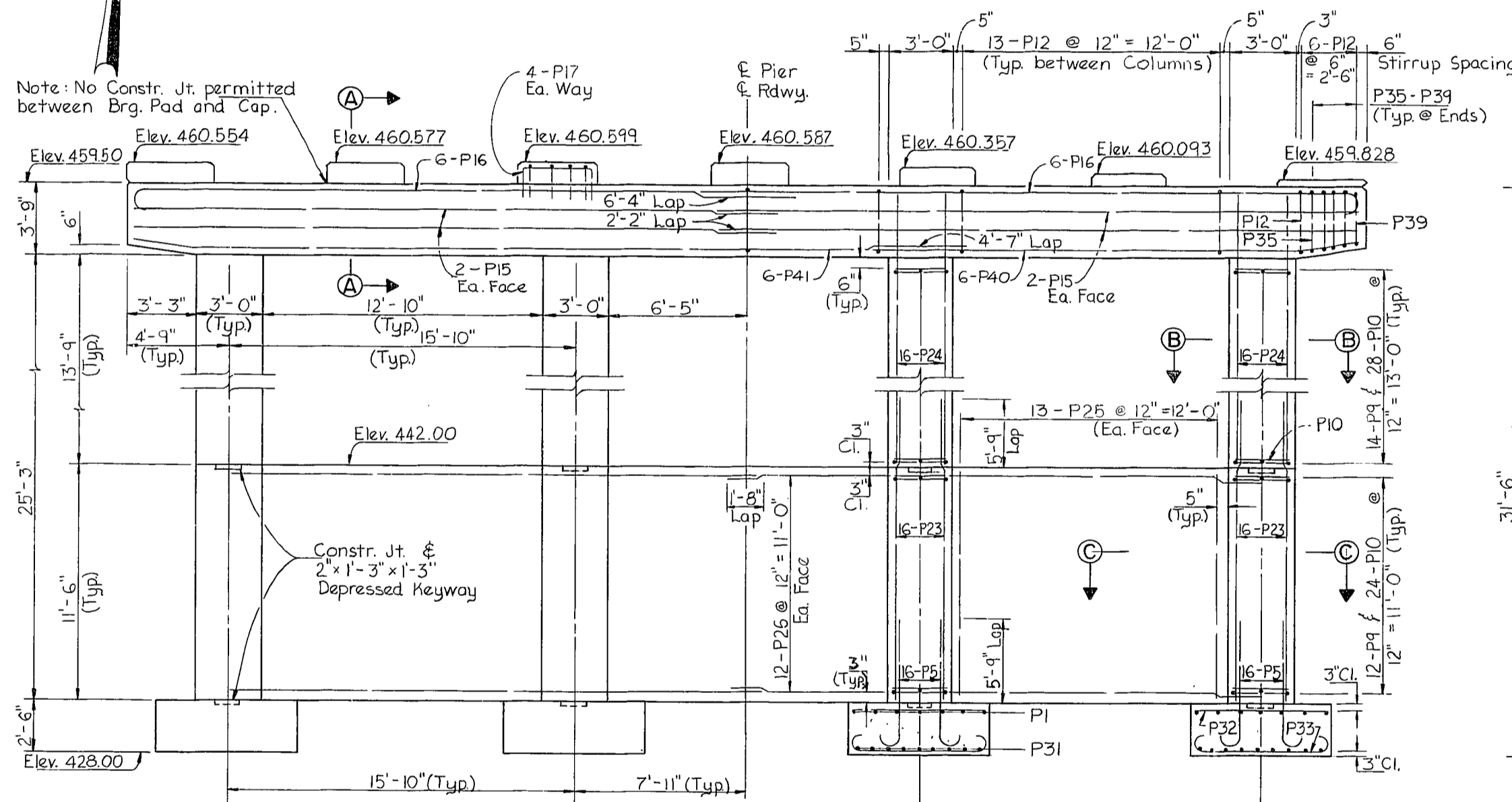
PLAN OF CAP



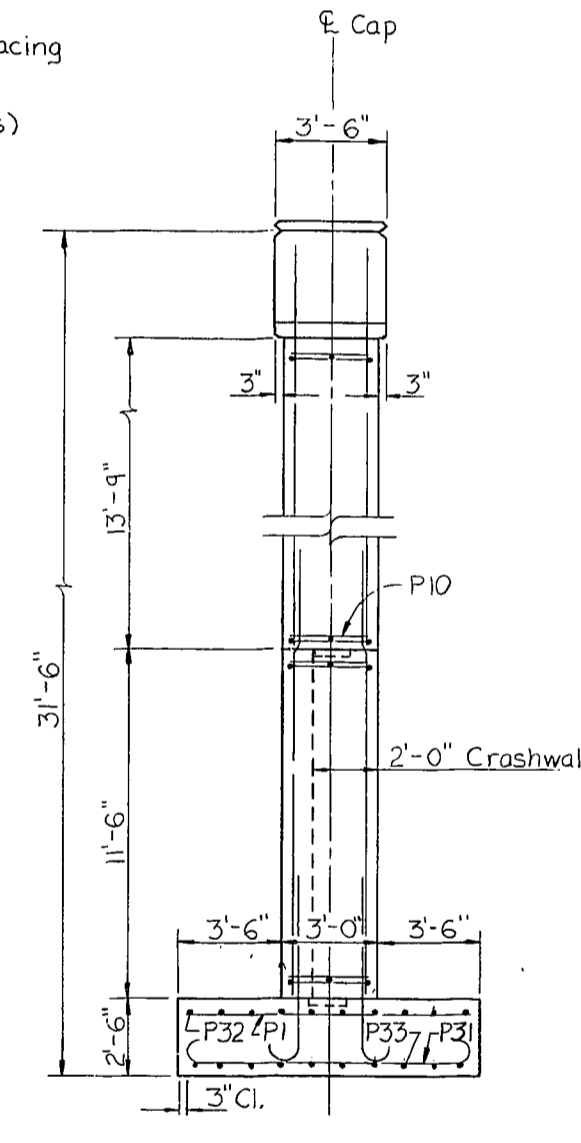
PAD DETAIL



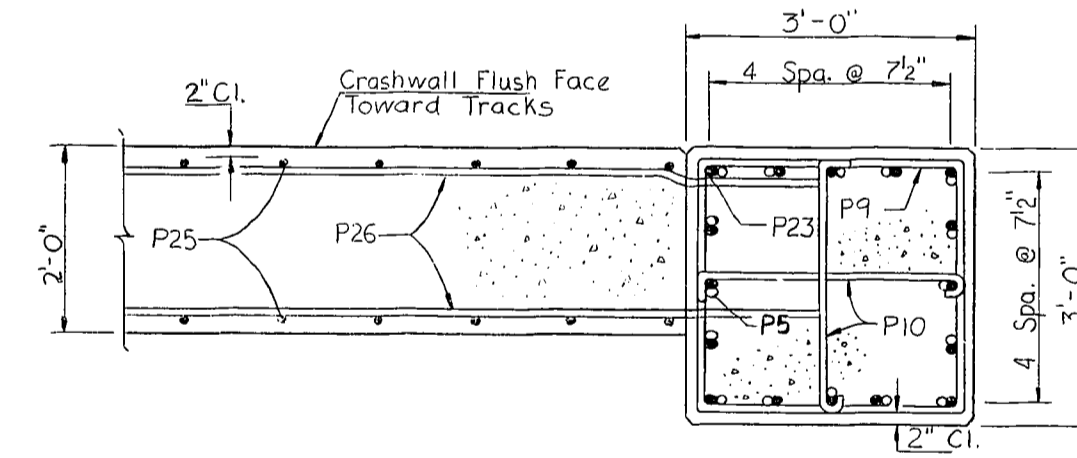
SECTION A-A



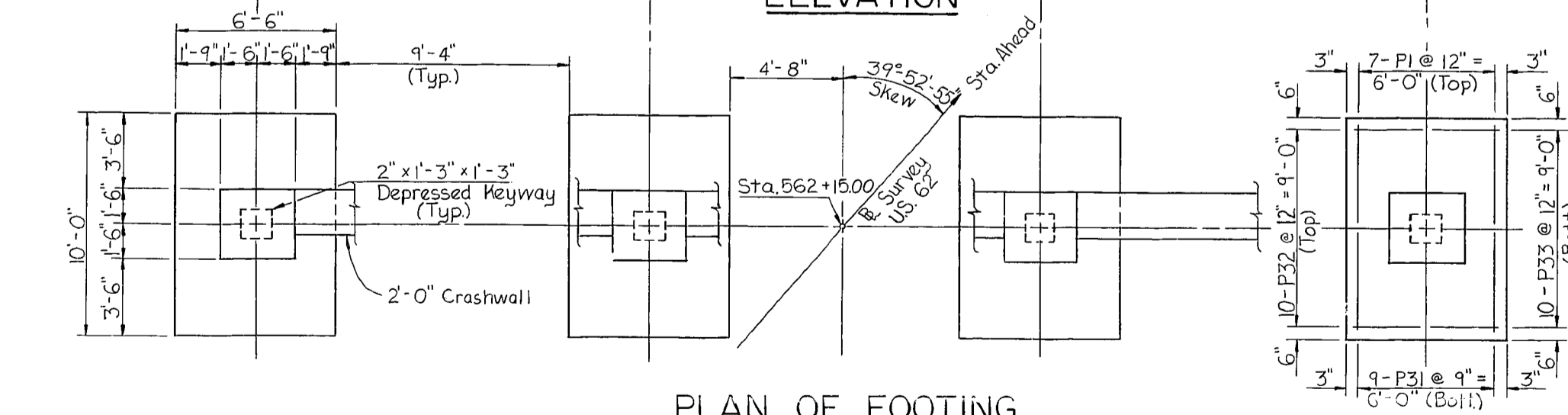
ELEVATION



END VIEW



SECTION C-C



PLAN OF FOOTING

ESTIMATE OF QUANTITIES

Concrete Class "A"	120.9 Cys.
Reinforcement	19,647 Lbs.

U.S. 62 OVER I.C.G. RAILROAD SHEET 16 OF 25

**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLENBERG**  
GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD 000R 0001 000  
SSP 089 0062  
CREATION 560-0113 U.S. 62 P. C. PROJECT NO. 610-016 C12D

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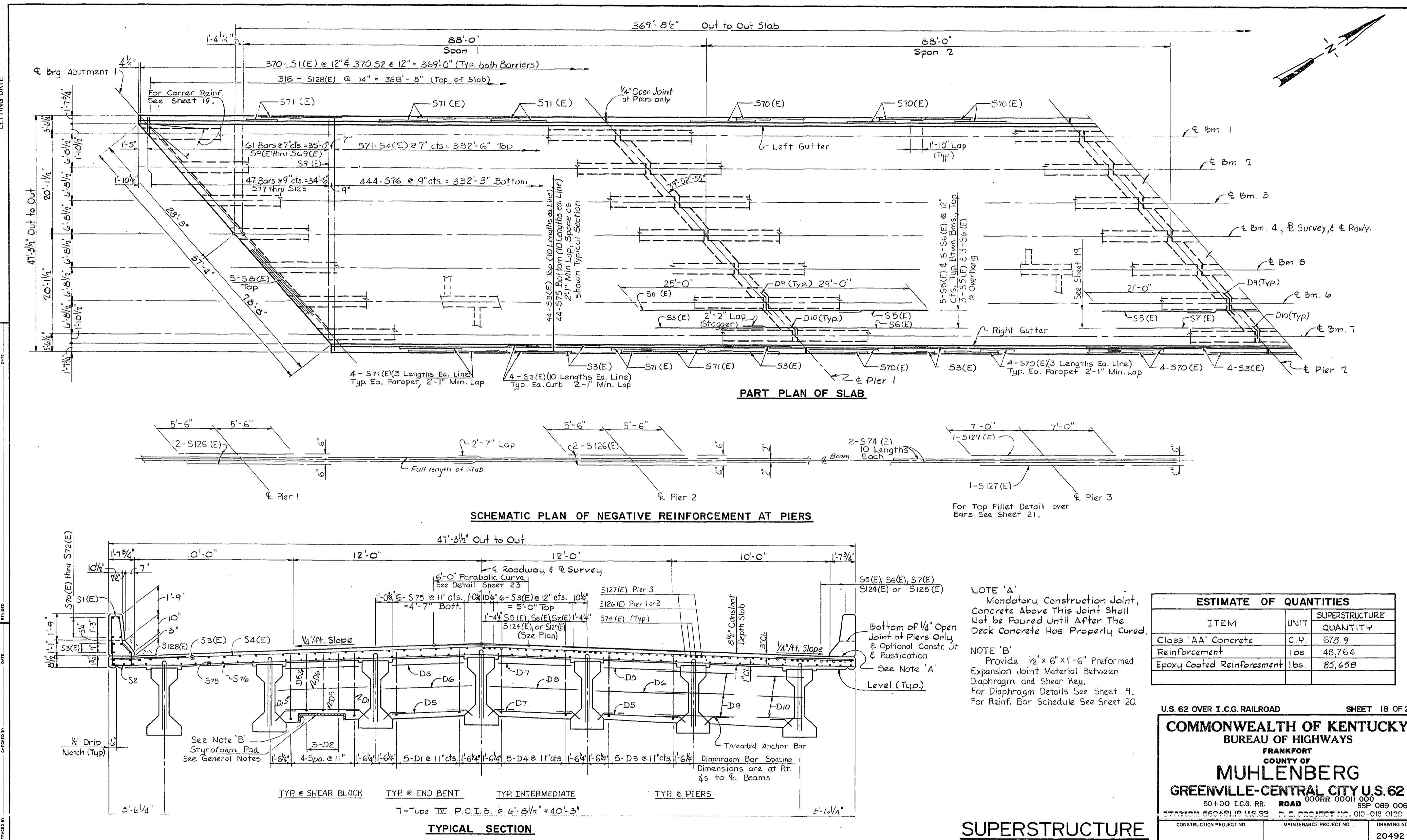
PIER 3

DIETZEN 11-76  
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CHECKED BY: G.E.P. DATE: 5/83  
DRAWN BY: T.D. DATE: 5/83  
REVISIONS: 1. DATE: 5/83  
2. DATE: 5/83





UPDATE DATE  
LETTING DATE



PART PLAN OF SLAB

SCHEMATIC PLAN OF NEGATIVE REINFORCEMENT AT PIERS

TYPICAL SECTION

**SUPERSTRUCTURE**

NOTE 'A'  
Mandatory Construction Joint,  
Concrete Above This Joint Shall  
Not be Poured Until After The  
Deck Concrete Has Properly Cured.

NOTE 'B'  
Provide 1/2" x 6" x 1'-6" Preformed  
Expansion Joint Material Between  
Diaphragm and Shear Key.  
For Diaphragm Details See Sheet 19.  
For Reinf. Bar Schedule See Sheet 20.

ESTIMATE OF QUANTITIES		
ITEM	UNIT	SUPERSTRUCTURE QUANTITY
Class 'AA' Concrete	C.Y.	678.9
Reinforcement	Lbs.	48,764
Epoxy Coated Reinforcement	Lbs.	85,658

U.S. 62 OVER I.C.G. RAILROAD SHEET 18 OF 25

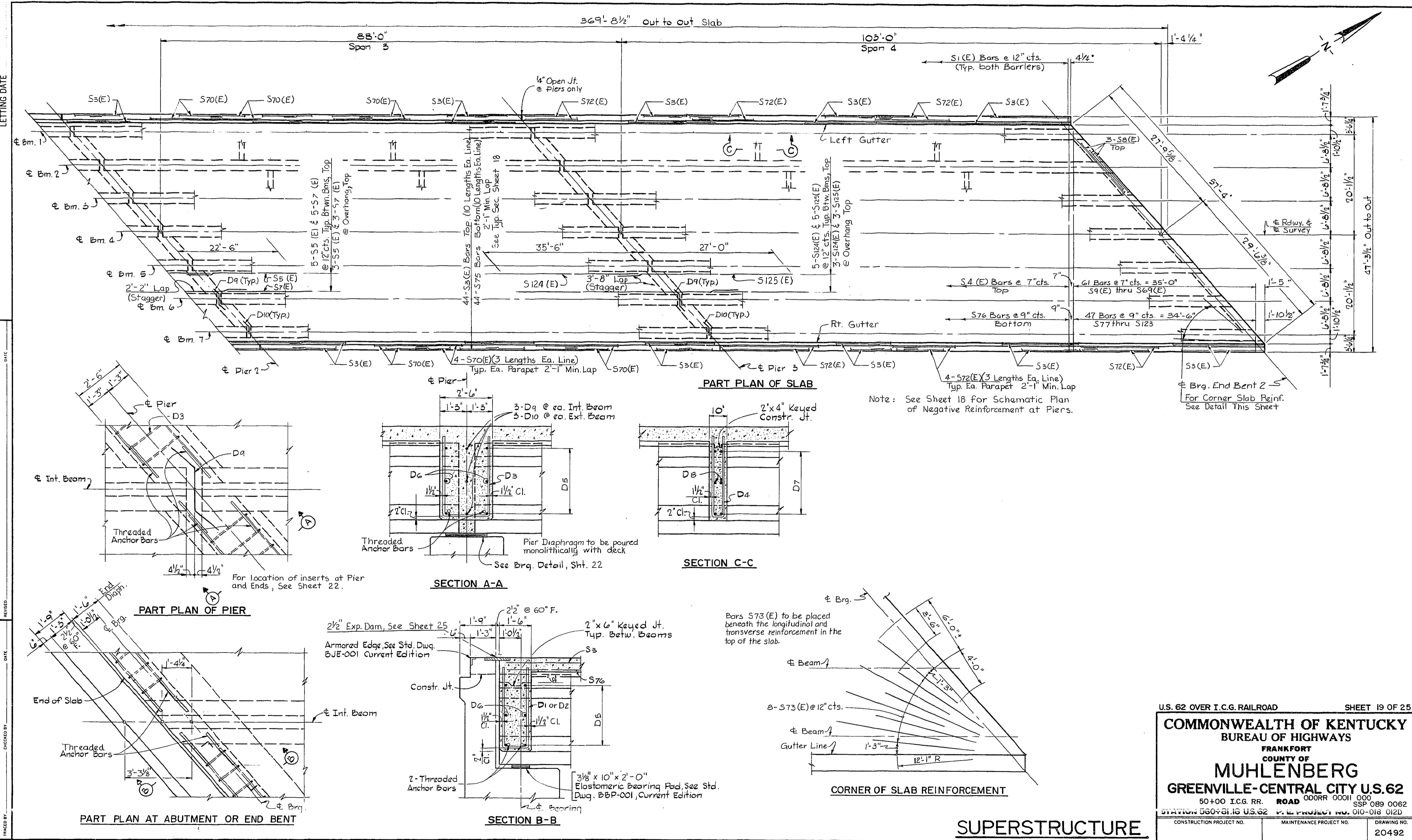
**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLBERG**  
GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD 000R 0001 000  
SSP 089 0062  
STATION 560+01.0 U.S. 62 P.E. PROJECT NO. 010-010 012D  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
20492

DIETZGEN 11-76  
DESIGNED BY: M.P. CHECKED BY: E.F.V. DATE: 11-76  
DRAWN BY: J.T. DATE: 11-76  
SCALE: AS SHOWN  
PROJECT NO. 010-010 012D  
SHEET NO. 18 OF 25



UPDATE DATE  
LETTING DATE

DESIGNED BY  
CHECKED BY  
DATE  
DRAWN BY  
DATE  
REVISIONS  
NO. DATE DESCRIPTION



PART PLAN OF SLAB

SECTION C-C

SECTION A-A

PART PLAN OF PIER

PART PLAN AT ABUTMENT OR END BENT

CORNER OF SLAB REINFORCEMENT

SUPERSTRUCTURE

Note: See Sheet 18 For Schematic Plan of Negative Reinforcement at Piers.

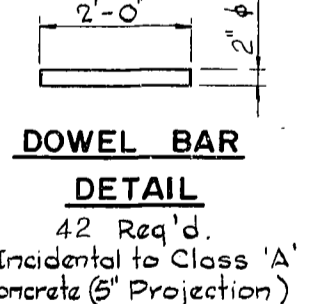
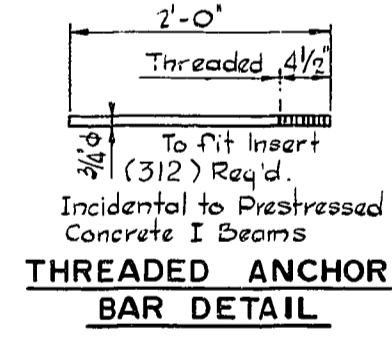
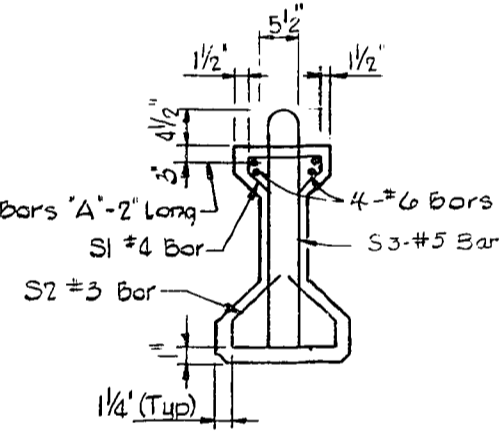
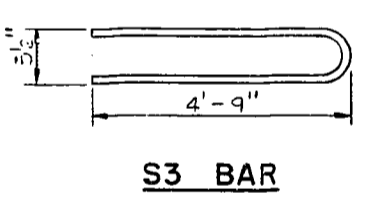
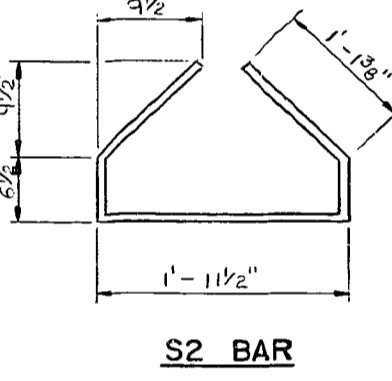
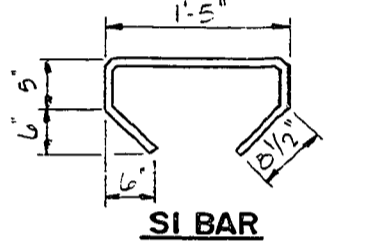
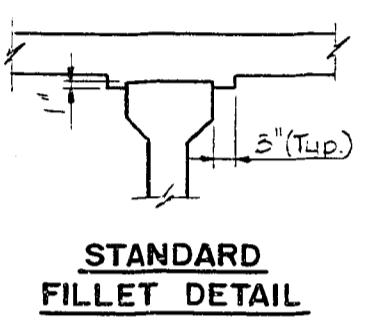
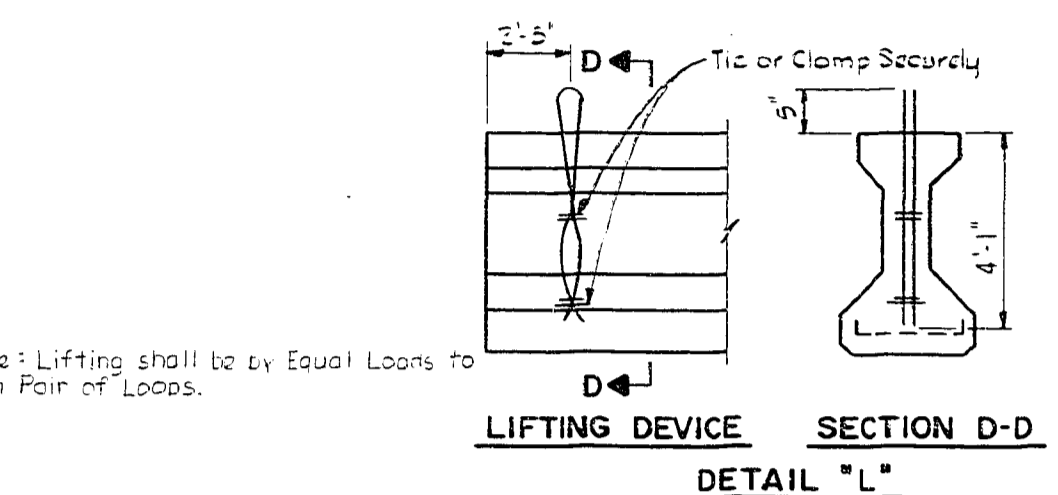
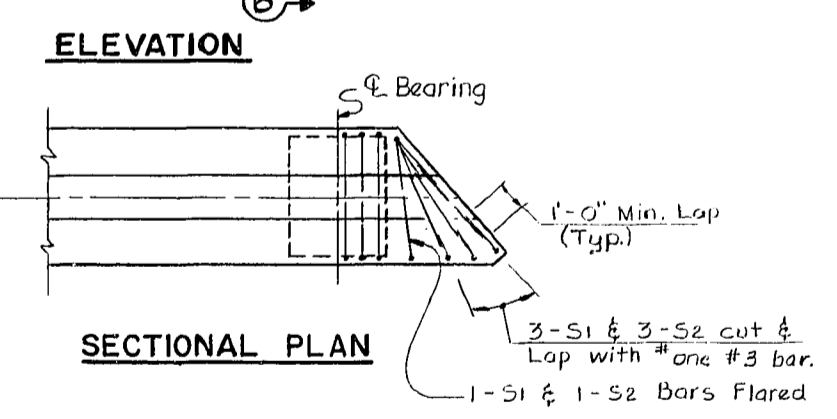
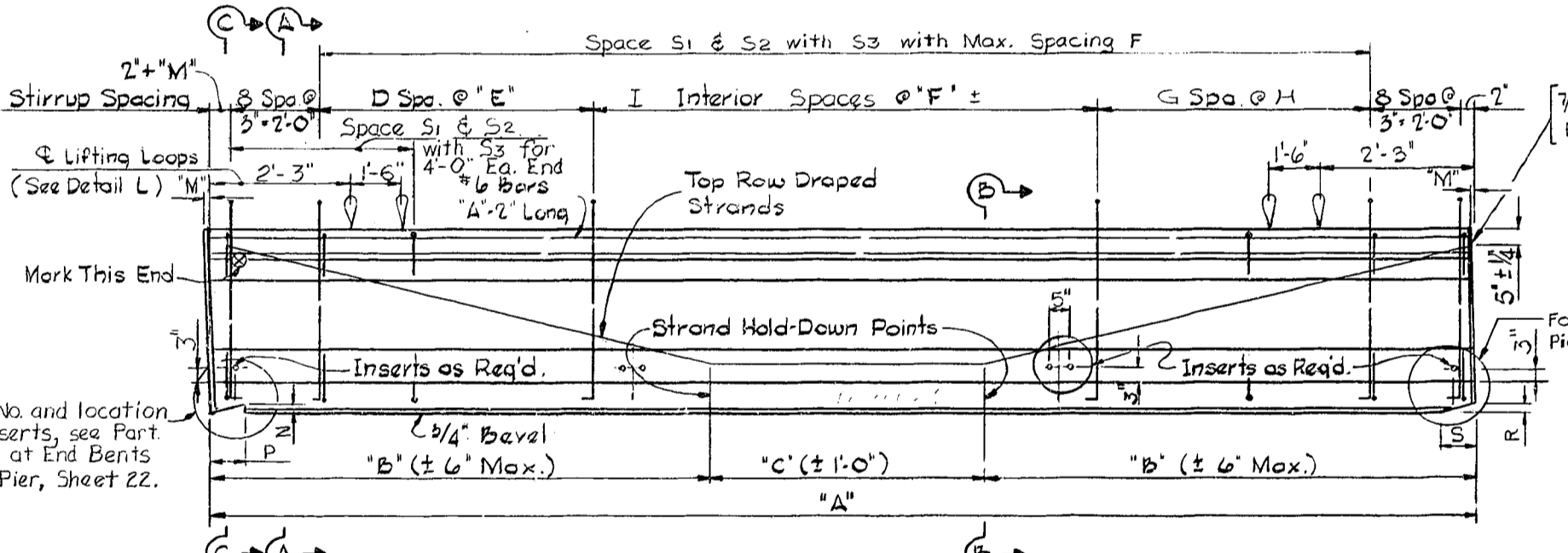
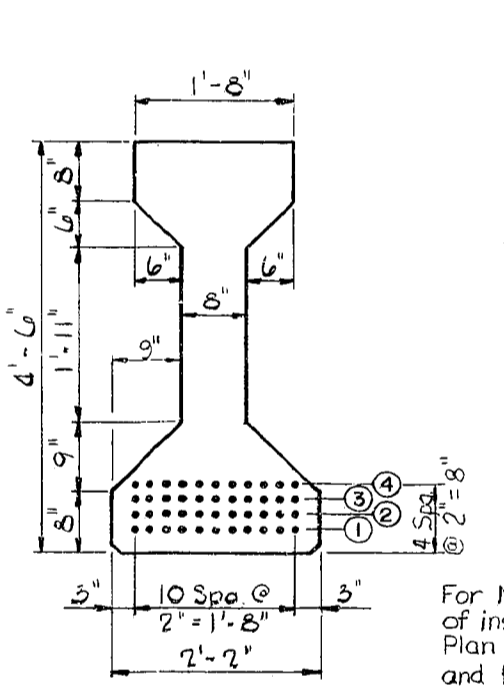
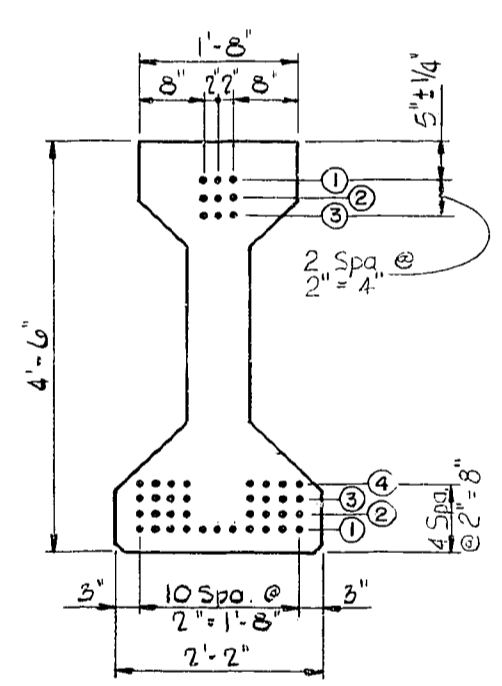
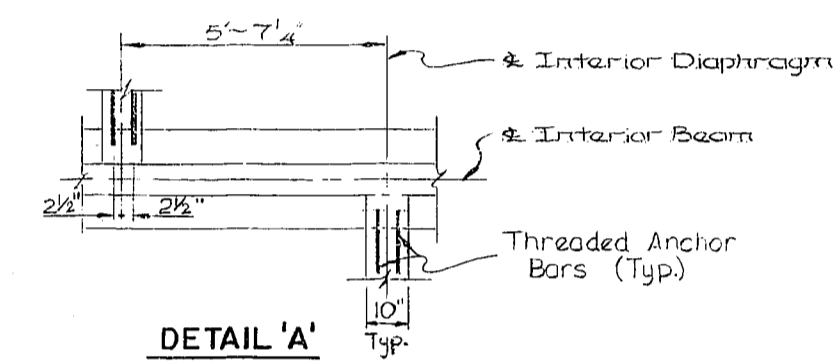
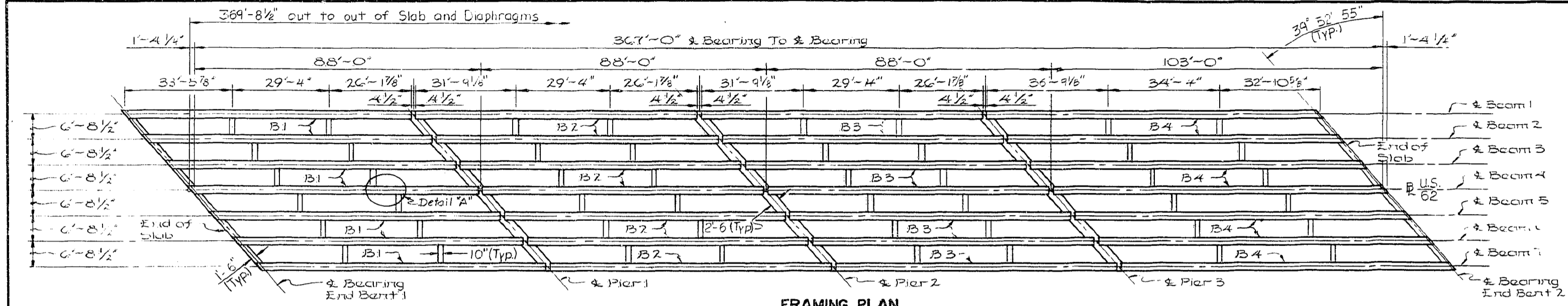
U.S. 62 OVER I.C.G. RAILROAD SHEET 19 OF 25

COMMONWEALTH OF KENTUCKY  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLENBERG**  
GREENVILLE-CENTRAL CITY U.S. 62  
50+00 I.C.G. RR. ROAD 000RR 00011 000  
SSP 089 0082  
STATION 560+01.15 U.S. 62 P.E. PROJECT NO. 010-018 012D  
CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO.  
20492





UPDATE DATE  
LETTING DATE



\*These Dimensions Given on  $\phi$  of Beams

BEAM DIMENSIONS*														Approximate Weight Each		
MARK	NO. REQ'D	A	B	C	D	E	F	G	H	I	M	N	P		R	S
B1	7	88'-11 1/2"	30'-5 1/2"	28'-0"	22	6"	18"	22	6"	42	3/8"	0"	2'-0"	0"	1'-0"	73,140
B2	7	87'-5"	30'-1 1/2"	27'-0"	22	6"	18"	22	6"	41	3/8"	1/8"	1'-0"	1/8"	1'-0"	71,720
B3	7	87'-5"	30'-1 1/2"	27'-0"	22	6"	18"	22	6"	41	1/8"	1/4"	1'-0"	1/4"	1'-0"	71,720
B4	7	103'-11 1/2"	35'-5 1/2"	33'-0"	45	5"	18"	45	5"	44	1 3/4"	1/4"	1'-0"	5/8"	2'-0"	85,470

NUMBER OF 1/2 $\phi$ - 7 WIRE STRANDS IN INDICATED ROW																		
MARK	MIDSPAN (SECTION B-B)							END (SECTION A-A)							TOTAL NO.	INITIAL PRESTRESS FORCE / STRAND (LBS.)		
	BOTTOM							BOTTOM										
	1	2	3	4	5	6	7	1	2	3	4	5	6	7			1	2
B1	9	9	5	5				9	9	5	5				3	28	28,900	
B2	9	9	5	5				9	9	5	5				3	26	28,900	
B3	9	9	5	5				9	9	5	5				3	26	28,900	
B4	11	11	11	11	4			11	11	11	11	6			3	3	42	28,900

Note: For Details of End Diaphragms, Bearings and Strand Splices, See Sheet 22.

U.S. 62 OVER I.C.G. RAILROAD SHEET 21 OF 25

COMMONWEALTH OF KENTUCKY  
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FRANKFORT  
COUNTY OF

MUHLENBERG  
GREENVILLE-CENTRAL CITY U.S. 62  
COORR 00011 000

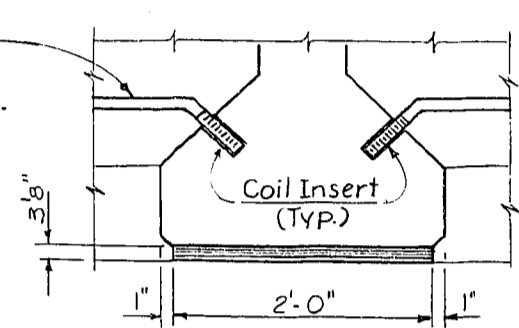
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CONSTRUCTION PROJECT NO. MAINTENANCE PROJECT NO. DRAWING NO. 20492

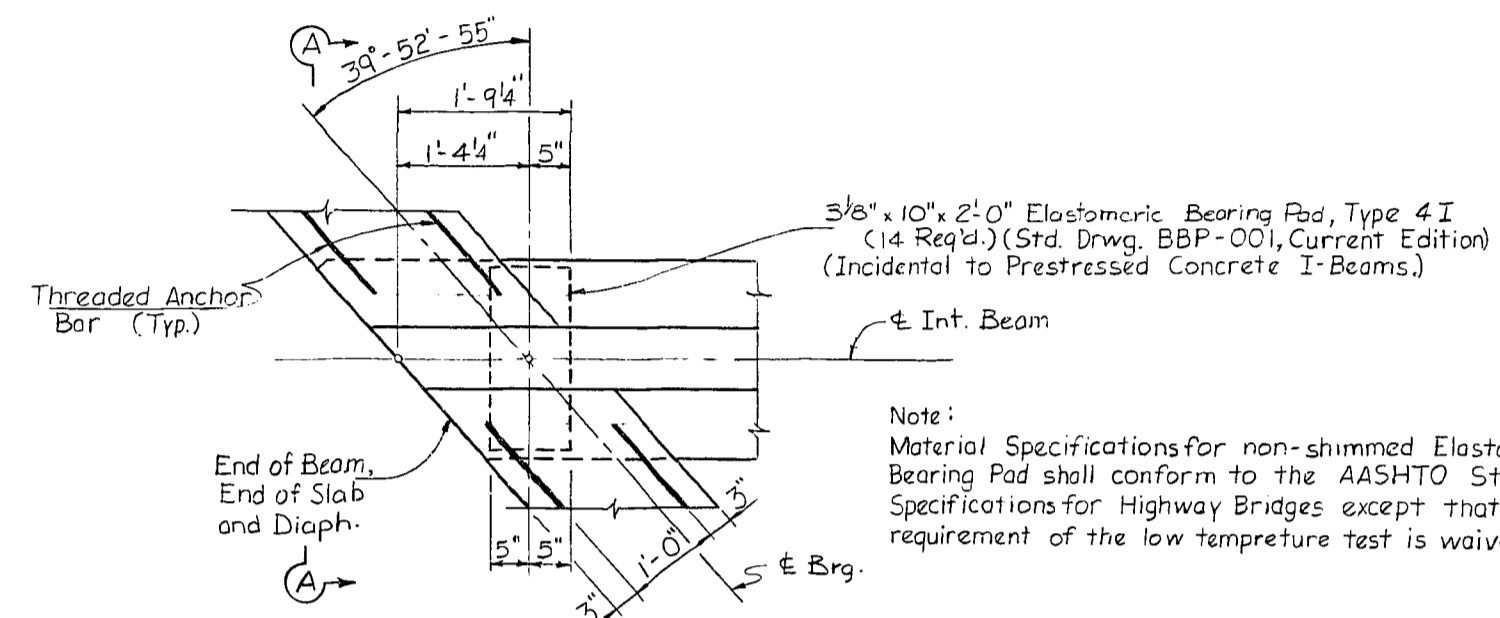
SUPERSTRUCTURE

UPDATE DATE  
LETTING DATE

Threaded Anchor Bars, 2 Ea. side (Typical) Sec. Detail Sht. 21.

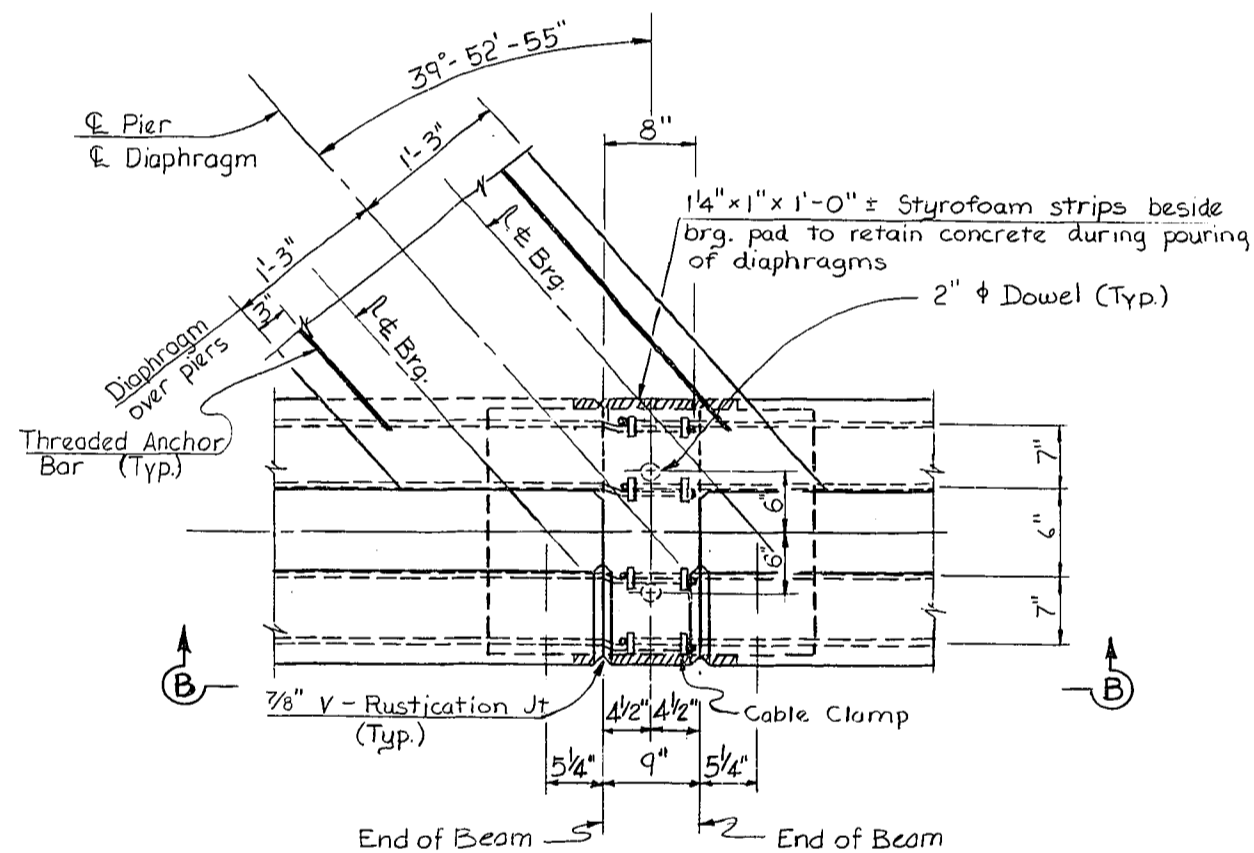


VIEW A-A



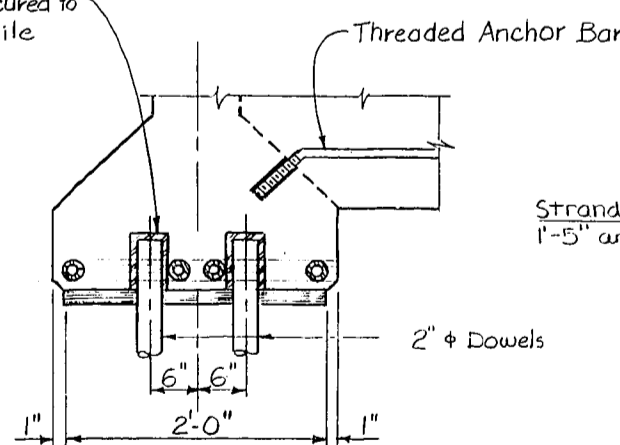
PART PLAN AT END BENTS

EXPANSION BEARING DETAILS AT END BENTS

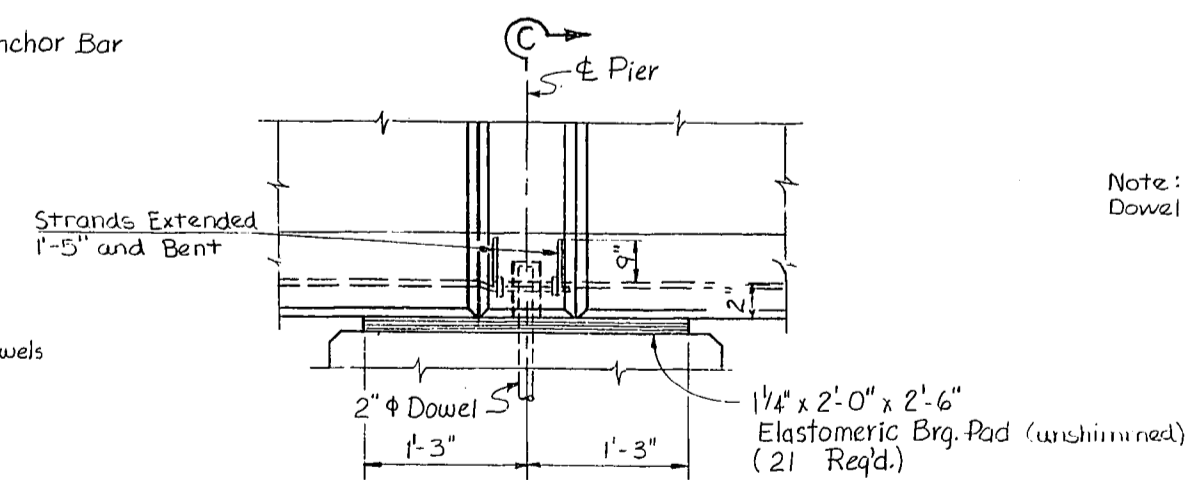


PART PLAN AT PIERS NO. 1, 2 & 3

Dowel Sleeve 2 1/2" x 5" Std. Wt. Pipe Closed at Top and to be Secured to Keep it from Floating while Concrete is Poured. Pipe Sleeve to sit on Bearing Pad.



SECTION C-C



VIEW B-B

Note:  
Dowel Sleeves and Clamps are incidental to Class "AA" Concrete.

FIXED BEARING DETAILS AT PIERS NO. 1, 2 & 3

DESIGNED BY	DATE	REVISION	DATE
CHECKED BY	DATE	REVISION	DATE
TRACED BY	DATE	REVISION	DATE

U.S. 62 OVER I.C.G. RAILROAD SHEET 22 OF 25

**COMMONWEALTH OF KENTUCKY**  
BUREAU OF HIGHWAYS  
FRANKFORT  
COUNTY OF  
**MUHLENBERG**  
GREENVILLE-CENTRAL CITY U.S. 62

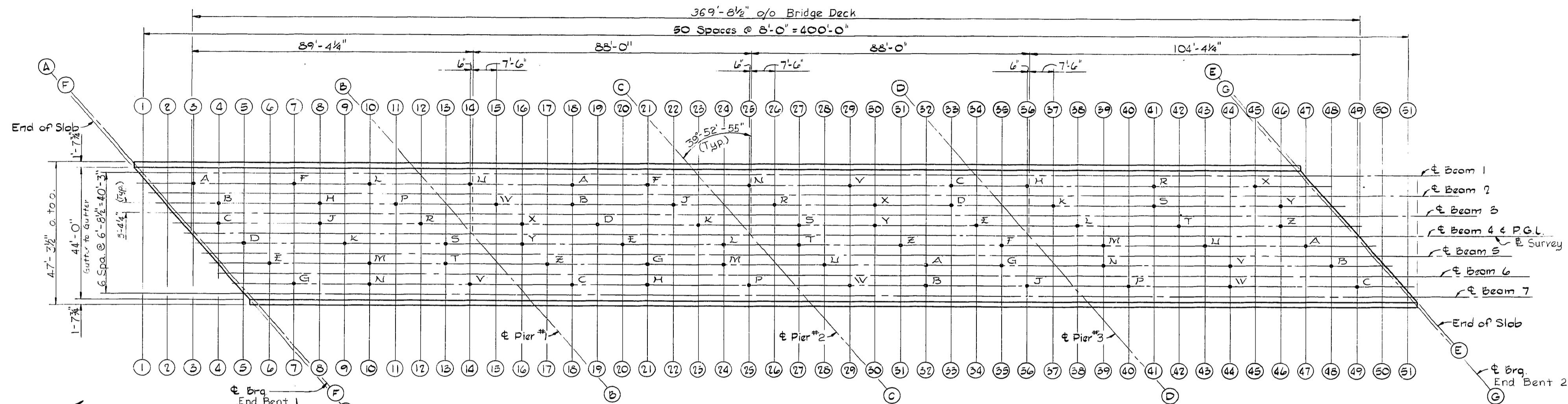
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SSP 089 0062  
STATION 580:018 U.S. 62 P.E. PROJECT NO. 010-012 012D

CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20492

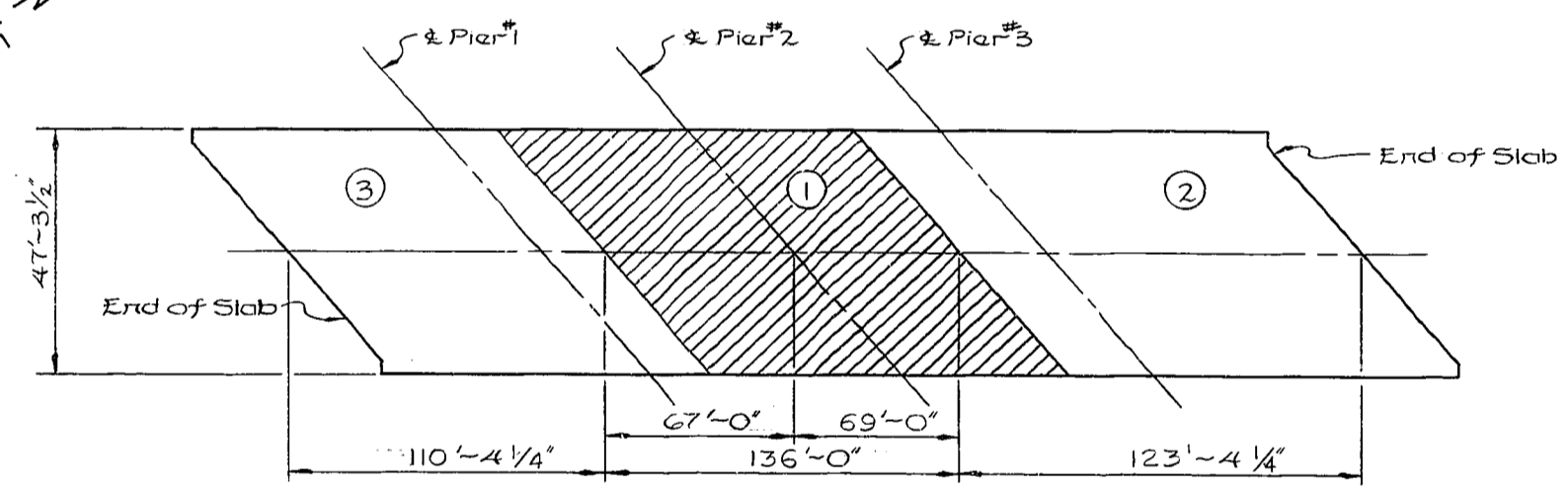
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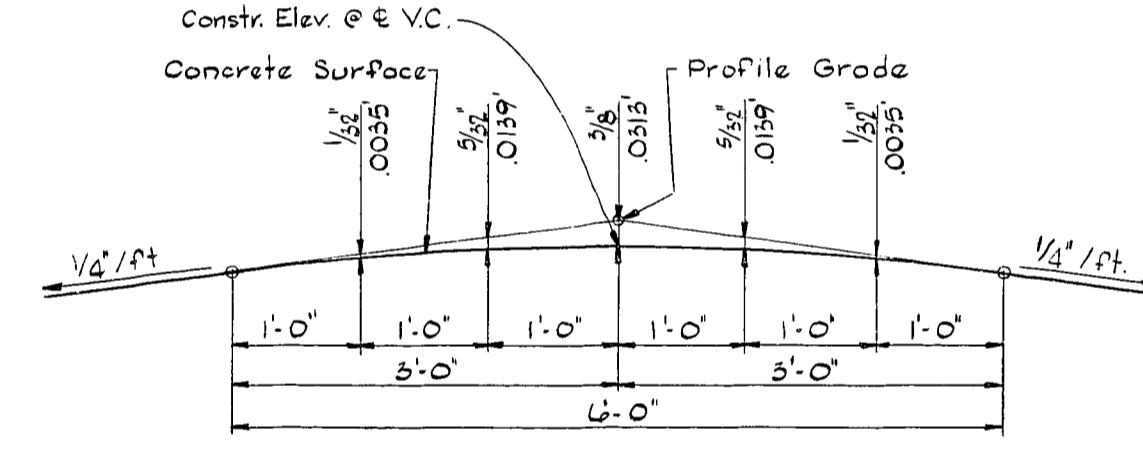
UPDATE DATE  
LETTING DATE



PLAN



SLAB POURING ORDER



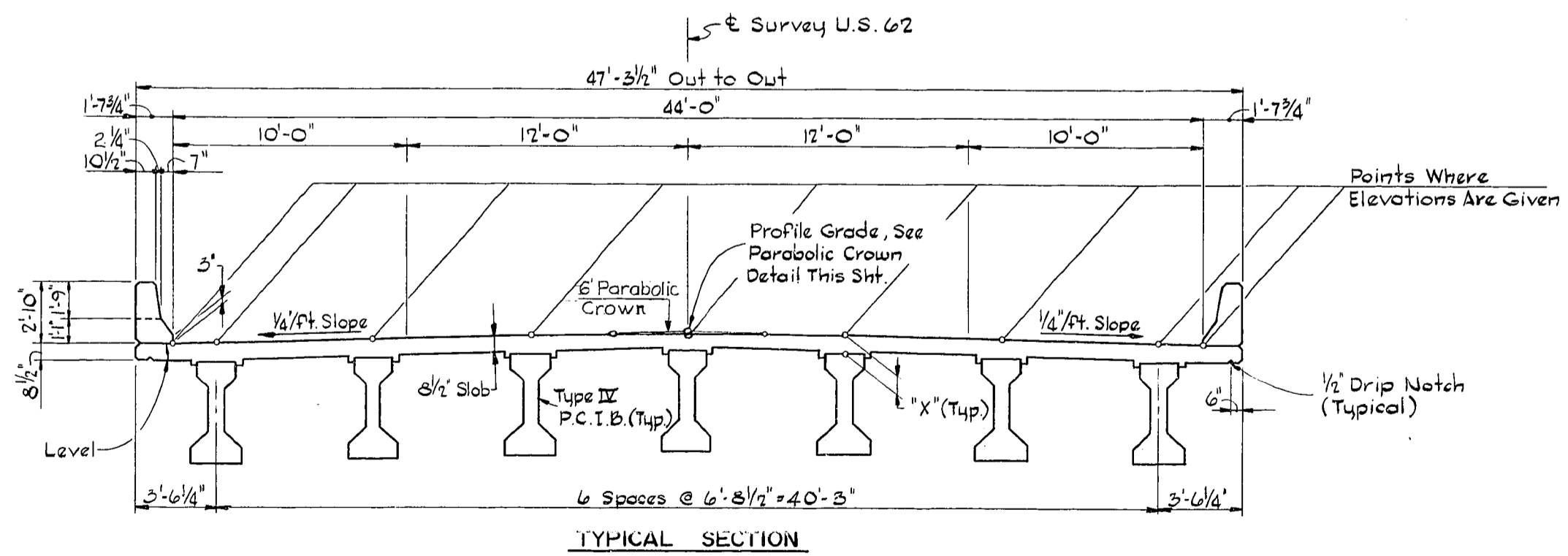
PARABOLIC CROWN

CONSTRUCTION NOTES

ELEVATIONS FOR PRESTRESSED SPANS: Take Elevations on Top of Beams at Points Indicated After The Diaphragms Are in Place And After All Falsework Has Been Removed, And After Forms For Concrete Slab Have Been Put in Place. Read Elevations to Three Decimals Using a Target Rod, And Enter Readings in Table Under "Top of Beam Elevations".

COMPUTE DIMENSION "X" AS FOLLOWS: Construction Elevations Minus Top of Beam Elev. Equals Dimension "X". Construction Elevation Includes Camber Due to Weight of Concrete Slab, Barrier And Future Wearing Surface. Measuring of Dimension "X" Gives The Final Check on Beam Tolerances for Camber, Beam Damage And Errors in Erection That Produce Reverse Cambers, Sags, And Unsightly Fascia Beams. For Setting Templates Measure Dimension "X" Above Top of Beam For Top of Template. Do Not Set Template by Elevations. Construct Barrier to Curb Grade. Do Not Add Camber to Barrier.

SLAB THICKNESS CONTROL: After The Slab Forms Are Erected And Before The Slab Reinforcement is Placed, The Resident Engineer Shall Take Field Elevations at The Slab Thickness Check Points And Enter Them in The Table in The Space Provided. The Slab Thickness Shall Then be Computed. If The Computed Slab Thickness Varies More Than 1/4" From The Plan Thickness, Allowing 1/360 of The Slab For Deflection of The Form Work, The Form Shall be Adjusted Until The Computed Slab Thickness is Within The Tolerance Allowed.



TYPICAL SECTION

ELEVATIONS

U.S. 62 OVER I.C.G. RAILROAD SHEET 23 OF 25

**COMMONWEALTH OF KENTUCKY**  
**BUREAU OF HIGHWAYS**  
FRANKFORT  
COUNTY OF

**MUHLENBERG**  
**GREENVILLE-CENTRAL CITY U.S. 62**

50+00 I.C.G. RR. ROAD OORR 0001 000  
SSP 089 0062

STATION 50+00 I.C.G. RR. ROAD U.S. 62 P.E. PROJECT NO. 010-013 012D

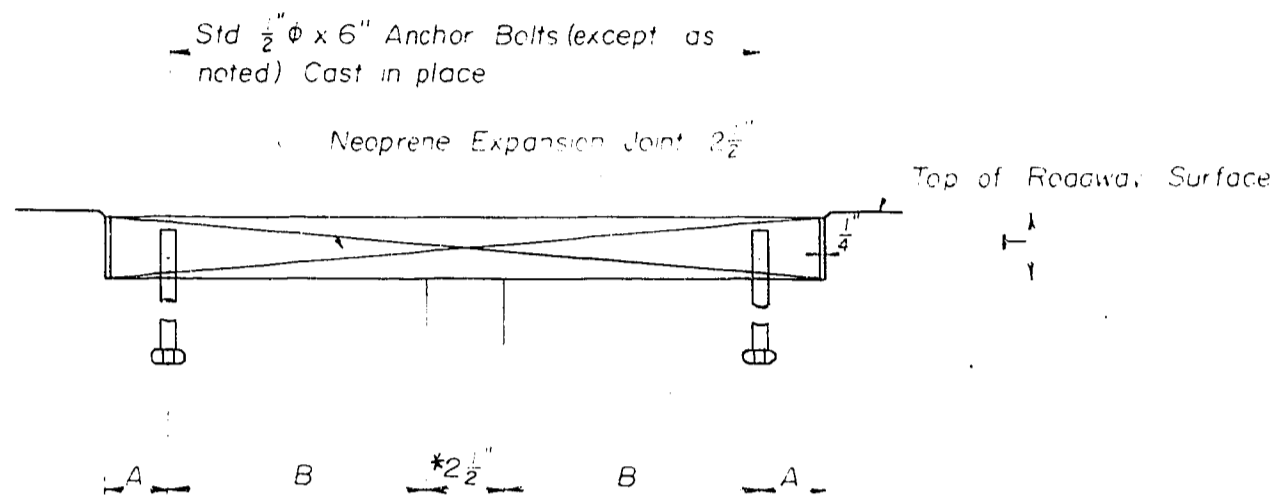
CONSTRUCTION PROJECT NO.	MAINTENANCE PROJECT NO.	DRAWING NO.
		20492

DIETGER 11-76  
DESIGNED BY  
CHECKED BY  
DRAWN BY  
DATE  
DATE  
DATE  
DATE





ALTERNATE NEOPRENE EXPANSION JOINTS



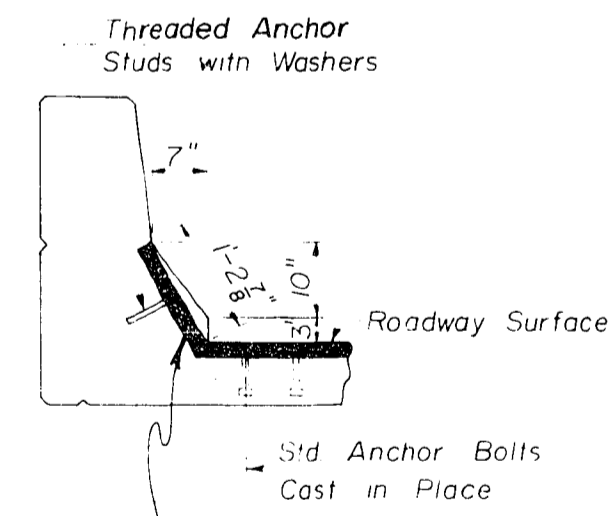
CROSS SECTION

\*At 60° F  
Dimensions are at right angles

NOTE: Joint openings shall be adjusted for each 10° above or below 60° F, decrease or increase respectively by increment shown in table below.

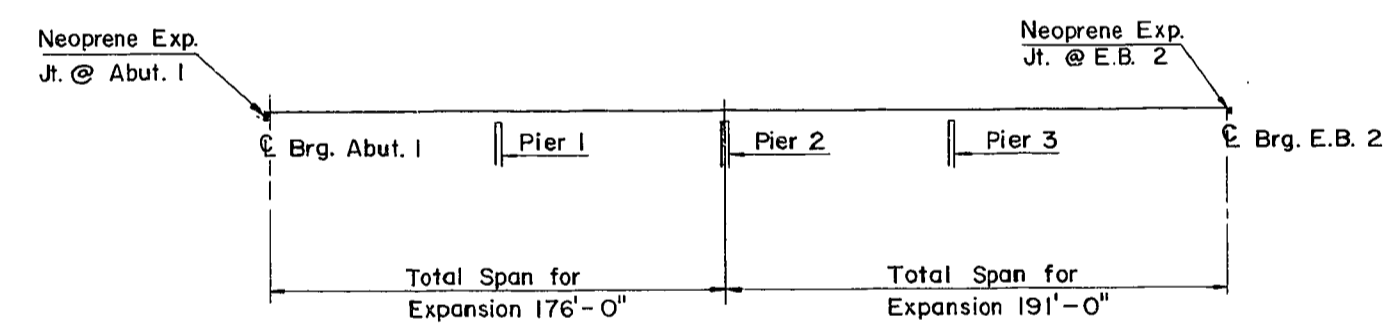
SPAN 160' to 200'	
SPAN*	INCREMENT
160'	1/8"
161'	9/64"
180'	5/32"
181'	
200'	

\*Span is defined in Sketch



\* METAL CURB PLATE REQUIRED FOR DELASTIFLEX MT-300

TYPICAL END TREATMENT



SKETCH SHOWING EXPANSION LENGTH

MODEL	SUPPLIER	BLOCKOUT DIMENSIONS
**DELASTIFLEX MT-300 Total width of blockout at 60°F is 15 1/8" Permitted for 0° thru 30° skew	D.S. Brown Company	T=2"
FEL-SPAN, MODEL T-30 A-CS Set joint seal 2" at 60°F	Fel-Pro Construction Products	T=1 3/4" A=1 5/8" B=2 5/8"
LOW PROFILE ONFLEX-25 Set joint seal 1 1/2" at 60°F Roadway bolt channel shall be filled with approved grout	Structural Accessories, Inc.	T=1 3/4" A=1 5/8" B=2 5/8"
WABO ALU-STRIP, TYPE III S300 Set joint seal 2" at 60°F	Watson Bowman Associates, Inc.	T=1 5/8" A=1 3/4" B=2 1/2"
WABO ELASTODAM, TYPE 300 Set joint seal 2" at 60°F	Watson Bowman Associates, Inc.	T=1 3/4" A=2 3/8" B=3"
WABO-MAURER SB300 Total width of blockout at 60°F is 9 1/2"	Watson Bowman Associates, Inc.	T=2 7/8"
ACME TROJAN, TYPE TR 300 Set Joint Seal 2" at 60°F	Acme Highway Products, Corp.	T=1 3/4" A=1 3/4" B=2 1/4"
GEN-STRIP CCL Set joint seal 2 1/4" at 60°F	General Tire Company	T=1 5/8" A=1 1/8" B=2 1/2"

UPDATE DATE: \_\_\_\_\_ LETTING DATE: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 REVISIONS: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 SHEET NO.: 25 OF 25

NEOPRENE EXPANSION JOINTS (2 1/2")

U.S. 62 OVER I.C.G. RAILROAD SHEET 25 OF 25

**COMMONWEALTH OF KENTUCKY**  
 BUREAU OF HIGHWAYS  
 FRANKFORT  
 COUNTY OF  
**MUHLENBERG**  
 GREENVILLE-CENTRAL CITY U.S. 62

50+00 I.C.G. RR. ROAD 000RR 000II 000  
 STATION 560+81.8 U.S. 62 P.E. PROJECT NO. 010-018 012D  
 CONSTRUCTION PROJECT NO. \_\_\_\_\_ MAINTENANCE PROJECT NO. \_\_\_\_\_ DRAWING NO. 20492