FEDERAL-AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA/ TAZEWELL	20	1
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	

P - 94 - 131 - 79

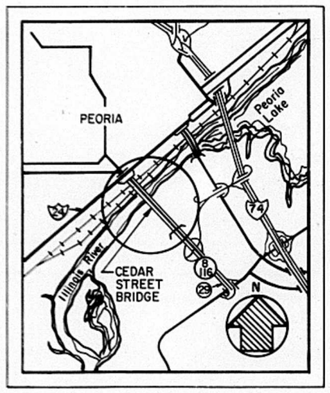
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

INDEX OF SHEETS

FA - 669 (SBI-121)
SECTION 103B - I - 3
PROJECT BH-F-669 (13)
PEORIA / TAZEWELL COUNTIES

C-94-104-82

LOCATION PLAN



LOCATION OF SECTION INDICATED THUS:—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 5-13 1982
DISTRICT ENGINEER

EXAMINED 6-1 1982
ENGINEER OF BRIDGE PLANS AND CONTRACTS

PASSED 6-1 1982
ENGINEER OF DESIGN

APPROVED 6-1 1982
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED 1982

CEDAR STREET BRIDGE

EMERGENCY REPAIR TO THE STRUCTURE CARRYING ILLINOIS ROUTES 8, 29 AND 116 OVER THE ILLINOIS RIVER, BETWEEN PEORIA AND EAST PEORIA.
THE REPAIRS ARE TO INCLUDE:

RECONSTRUCTION OF NORTH COLUMN AT THE WEST ABUTMENT
RECONSTRUCTION OF PIER NUMBERS 1 AND 4 FROM THE TOP OF PEDESTAL
REPLACEMENT OF EXPANSION DAM AT PIER 1
REPAIR OF ALL ROADWAY STRINGERS AND REPLACEMENT OF ALL END DIAPHRAGMS AT PIER 1
REPLACEMENT OF SPAN 8 BEARINGS AT PIER 1
REPLACEMENT OF SPAN 9 GIRDER BEARINGS AT PIER 1
RESETTING OF SPAN 11 BEARINGS AT PIER 4
MODIFICATION OF SPAN 12 BEARINGS AT PIER 4
REPLACEMENT OF NAVIGATION LIGHT MAINTENANCE PLATFORMS
REPLACEMENT OF HINGES IN SPAN 15

ROLAND H. BERGER 3766 REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridges and Structures

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ENGINEER DATE

CONTRACT NO. 35604 RH Berger 6/10/82

PEORIA/TAZEWELL 103B-1-3 669 (SBI-121)
COUNTY SECTION F.A. ROUTE

	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-I-3	PEORIA/ TAZEWELL	20	1A
FED. ROAD DIST. NO. 4	ILLINOIS	PROJECT		

P - 94 - 131 - 79

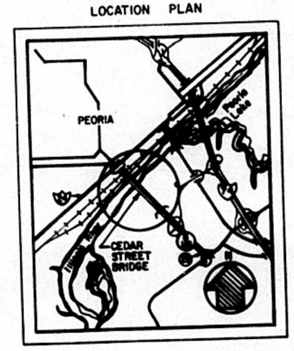
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

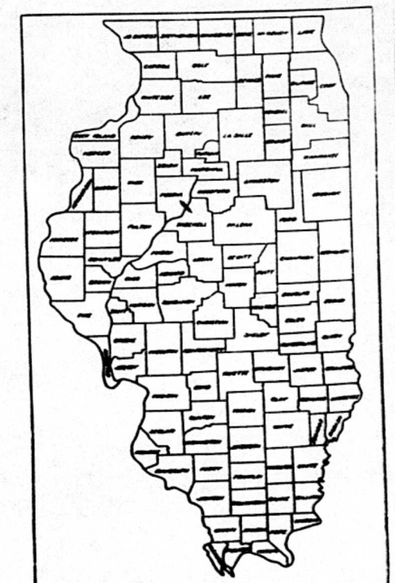
FA - 669 (SBI-121)
SECTION 103B - I - 3
PROJECT BH-F-669 (13)
PEORIA / TAZEWELL COUNTIES

C-94-104-82

INDEX OF SHEETS

LOCATION PLAN





LOCATION OF SECTION INDICATED THUS:-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
C-13 -82
Yellowbook
6-1-82
6-1-82
6-1-82
6-1-82
S.W.T. Pyramidy

CEDAR STREET BRIDGE

EMERGENCY REPAIR TO THE STRUCTURE CARRYING ILLINOIS ROUTES 6, 29 AND 116 OVER THE ILLINOIS RIVER, BETWEEN PEORIA AND EAST PEORIA.
THE REPAIRS ARE TO INCLUDE:

- RECONSTRUCTION OF NORTH COLUMN AT THE WEST ABUTMENT
- RECONSTRUCTION OF PIER NUMBERS 1 AND 4 FROM THE TOP OF PEDESTAL
- REPLACEMENT OF EXPANSION BAR AT PIER
- REPAIR OF ALL ROADWAY STRINGERS AND REPLACEMENT OF ALL END DIAPHRAGMS AT PIER 1
- REPLACEMENT OF SPAN 8 BEARINGS AT PIER 1
- REPLACEMENT OF SPAN 9 BEARINGS AT PIER 1
- RESETTING OF SPAN 11 BEARINGS AT PIER 4
- MODIFICATION OF SPAN 15 BEARINGS AT PIER 4
- REPLACEMENT OF NAVIGATION LIGHT MAINTENANCE PLATFORMS
- REPLACEMENT OF HINGES IN SPAN 15

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ENGINEER DATE

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridge and Structures

ROLAND H. BERGER
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

R.H. Berger 6/10/81

CONTRACT NO. 35604

Rev. 5-31-83

COUNTY	SECTION	F.A. ROUTE
PEORIA/TAZEWELL	103B-I-3	669 (SBI-121)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA/ TAZEWELL	20	2
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET 51 OF 11

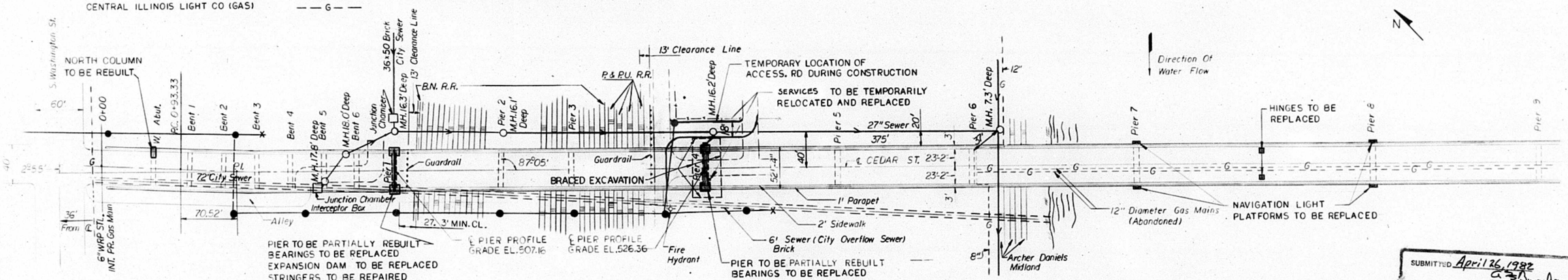
LEGEND

GREATER PEORIA SANITARY DISTRICT
ILLINOIS BELL TELEPHONE
AERIAL CABLE
BURIED CABLE
CENTRAL ILLINOIS LIGHT CO (GAS)

BENCH MARKS

PERMANENT BENCH MARK: COPPER BOLT IN ENTRANCE STEP TO RAIL STATION ON WATER STREET ACROSS FROM SEARS IN PEORIA, EL.455.19.

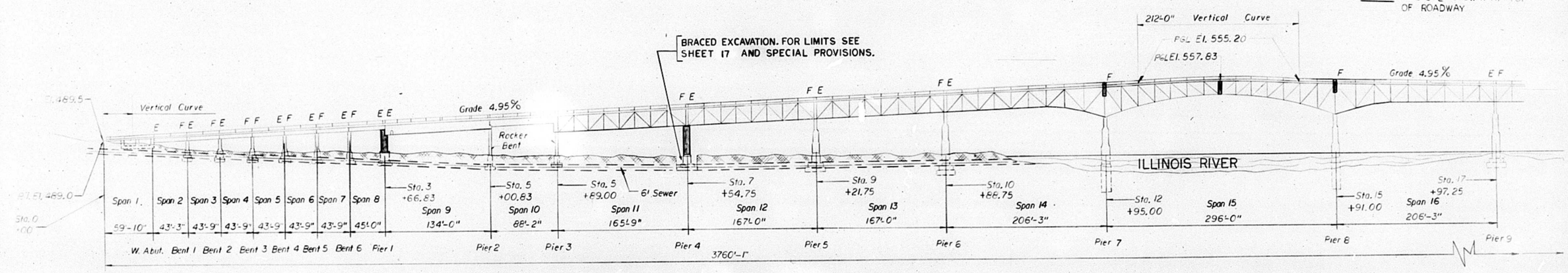
TEMPORARY BENCH MARK: CHISLED "□" ON NW CORNER OF W COLUMN OF PIER AT WATER SURVEY BUILDING, EL. 464.31.



PLAN

SUBMITTED April 26, 1982
DIST. DESIGN ENGR.
EXAMINED April 30, 1982
DIST. ENGINEER
EXAMINED April 27, 1982
DIST. MAINT. ENGR.
EXAMINED April 27, 1982
DIST. TRAFFIC ENGR.
Entire section inspected and approved as to policy.
DATE 5-13-82
DISTRICT ENGINEER

NOTE: PGL IS ℄ ROADWAY AT TOP OF ROADWAY



ELEVATION

CEDAR STREET BRIDGE

STRUCTURE NO. 090-0030 FA ROUTE 669 SECTION 103B-I-3 BUILT IN 1930 AS STATE ROUTES 8, 29 & 116 OVER THE ILLINOIS RIVER; & EXTENSIVELY REPAIRED IN 1970.

NORTH COLUMN AT WEST ABUTMENT TO BE REBUILT
PIER NUMBERS 1 & 4 TO BE REBUILT FROM THE TOP OF PEDESTAL
EXPANSION DAM AT PIER 1 TO BE REPLACED
SPAN 8 & 9 STRINGERS AT PIER 1 TO BE REPAIRED
STRINGER END DIAPHRAGMS AT PIER 1 TO BE REPLACED
SPAN 8 BEARINGS AT PIER 1 TO BE REPLACED
SPAN 9 GIRDER BEARINGS AT PIER 1 TO BE REPLACED
SPAN 12 BEARINGS AT PIER 4 TO BE MODIFIED
SPAN 11 BEARINGS AT PIER 4 TO BE RESET

NAVIGATION LIGHT MAINTENANCE PLATFORMS TO BE REPLACED
HINGES IN SPAN 15 TO BE REPLACED

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

GENERAL PLAN

CEDAR STREET BRIDGE

F.A.I. ROUTE 669 SECTION 103B-I-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA/ TAZEWELL	20	3
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET S2 OF 11

X032-2A

GENERAL NOTES

GOVERNING PROVISIONS:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED OCT., 1979, AND AS AMENDED BY ANY SUPPLEMENTAL SPECIFICATIONS.

DESIGN (NEW CONSTRUCTION ONLY):

THE BRIDGE IS DESIGNED FOR AN H20-44 LIVE LOADING. THE DESIGN IS IN ACCORDANCE WITH THE 1977 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, INCLUDING THE 1978, 1979 AND 1980 INTERIM SPECIFICATIONS.

DESIGN STRESSES (NEW CONSTRUCTION ONLY):

CONCRETE	f'_c	-	3500 PSI
	f_c	-	1400 PSI
REINFORCEMENT	f_s	-	24000 PSI
STRUCTURAL STEEL	f_s	-	20000 PSI

VERIFICATION OF DIMENSIONS:

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD, AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CONCRETE:

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8 INCH. ADJUSTMENT SHALL BE MADE BY SHIMMING THE BEARING. TWO 1/8 INCH ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

REINFORCEMENT:

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 GRADE 60.

ALL REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.

ALL REINFORCEMENT IN THE PIER CAPS SHALL BE SO PLACED AS TO AVOID INTERFERENCE WITH ANCHOR BOLTS.

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M183.

ALL CONTACT SURFACES OF JOINTS FOR DIAPHRAGMS SHALL BE FREE OF PAINT OR LACQUER.

ALL WORK INVOLVING RESETTING, REPAIR OR REPLACEMENT OF BEARINGS SHALL BE COMPLETED BEFORE BOLTING NEW DIAPHRAGMS OVER SUPPORTS.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8 INCH DIAMETER, OPEN HOLES 15/16 INCH DIAMETER, UNLESS OTHERWISE NOTED.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS OR IN THE TENSION MEMBERS OF TRUSSES. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER OR SPECIFICALLY REQUIRED BY THE PLANS.

THE COST OF THE STRUCTURAL STEEL, [redacted] FOR THE TEMPORARY TRUSS SUPPORTS, TEMPORARY GIRDER AND STRINGER SUPPORTS AND TRUSS STRENGTHENING SHALL BE INCLUDED IN [redacted], "JACKING AND CRIBBING EXISTING STRUCTURE." CALCULATED WEIGHT OF STRUCTURAL STEEL NEEDED FOR JACKING & CRIBBING EXISTING STRUCTURE AT PIERS 1 & 4 = 290,500#.

PAINTING: See Special Provisions

EXPANSION BOLTS:

FASTENERS FOR THE TEMPORARY BRIDGE RAIL SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOADS OF 7440 LBS., AND 1 INCH DIAMETER BOLTS.

EXCAVATION:

THE CONTRACTOR SHALL BACKFILL AROUND THE SUBSTRUCTURE AS SOON AS POSSIBLE AFTER REMOVAL OF TEMPORARY SUPPORTS, AND SHALL SLOPE SURFACES TO DRAIN.

The Contractor shall drive one HP14 x 73 test pile in a permanent location at Footing "A" (Pier 1) as directed by the Engineer before ordering the remainder of piles.

ITEMS OF WORK & LOCATION WITH PLAN LOCATION CROSS REFERENCE

A. WEST ABUTMENT (PEORIA SIDE)
1. ERECT TEMPORARY SUPPORT SYSTEM
2. REMOVE & REPLACE NORTH COLUMN (SHEET #7)
3. REPAIR OR REPLACE EXISTING BEARING
4. REMOVE TEMPORARY SUPPORT SYSTEM

B. PIER #1
1. TEMPORARY SUPPORT TOWERS
   A) DRIVE PILING (SHEET #10)
   B) CONSTRUCT CONCRETE PADS (SHEET #10)
   C) ERECT TEMPORARY SUPPORT TOWERS (SHEETS #10, 11, 12 & 13)
   D) REMOVE EXISTING TEMPORARY SUPPORT
2. REMOVE & REPLACE PIER #1 FROM GROUND UP (SHEET #7)
3. REPLACE BEARINGS
   A) WEST END-SPAN 8 (SHEETS #5 & 6)
   B) EAST END-SPAN 9 (SHEETS #5 & 6)
4. REPAIR STRINGERS
   A) EAST END-SPAN 8 (SHEETS #4 & 6)
   B) WEST END-SPAN 9 (SHEETS #4 & 6)
5. REPLACE EXP. JT. OVER PIER #1 (SHEET #4)
6. REMOVE TEMPORARY SUPPORT TOWERS

C. PIER #4
1. RELOCATE POWER SUPPLY FOR BRIDGE (SHEET #2)
2. BUILD ENTRANCE DETOUR (SHEET #17)
3. TEMPORARY SUPPORT TOWERS
   A) BRACED EXCAVATION (SHEET #17)
   B) STRENGTHEN TRUSS (SHEET #13)
   C) ERECT SUPPORT TOWERS (SHEET #9)
   D) REMOVE EXISTING TEMPORARY SUPPORT
4. REMOVE & REPLACE PIER #4 FROM GROUND UP (SHEET #8)
5. REPLACE BEARINGS
   A) WEST-END SPAN 11 (SHEETS #5 & 6)
   B) EAST-END SPAN 12 (SHEETS #5 & 6)
6. REMOVE SUPPORT TOWERS
7. BACKFILL
8. REBUILD ROADWAY THRU PIER #4 (SHEET #17)

D. PIER #7
1. REPLACE NAVIGATION PLATFORMS
   A) UPSTREAM SIDE (SHEET #16)
   B) DOWNSTREAM SIDE (SHEET #16)

E. CENTER OF BRIDGE
1. HINGE REPLACEMENT (SHEET #15)

F. PIER #8
1. REPLACE NAVIGATION PLATFORMS
   A) UPSTREAM SIDE (SHEET #16)
   B) DOWNSTREAM SIDE (SHEET #16)

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
501024	CONCRETE REMOVAL	CU. YD.	189
504003	CLASS X CONCRETE	CU. YD.	301.5
507004	FURNISH & ERECT STRUCTUAL STEEL	POUND	17830
509004	CLEANING & PAINTING	L. SUM	1
512001	REINFORCEMENT BARS	POUND	34,220
X05728	TEMPORARY BRIDGE RAIL	LIN. FT.	1010
646005	ENGINEER'S FIELD OFFICE, TYPE B	CAL. MO.	6
648012	TRAFFIC CONTROL AND PROTECTION STANDARD 2318 (SPECIAL)	EACH	4
513018	FURNISHING STEEL PILES HP14X73	LIN. FT.	605
513038	TEST PILES STEEL HP14X73	EACH	1
Z10215	EXPANSION DEVICE REMOVAL	LIN. FT.	52
XZ1333	TEMPORARY SUPPORT SYSTEM	EACH	1
Z10259	JACKING & CRIBBING EXISTING STRUCTURE	EACH	4
Z10283	NEOPRENE EXPANSION JOINT (9")	LIN. FT.	55
X04748	MOBILIZATION	L. SUM	1
X50317	ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	18
X07877	TEMPORARY ELECTRICAL SERVICE RELOCATION	L. SUM	1
X07878	HINGE REPLACEMENT	L. SUM	1
X07879	STRINGER REPAIR	L. SUM	1
513021	FURNISHING STEEL PILES HP14x117 (SPECIAL)	LIN. FT.	220
513027	DRIVING STEEL PILES	LIN. FT.	825
X07880	BRACED EXCAVATION	L. SUM	1
X07881	REMOVAL OF EXISTING BEARINGS	L. SUM	1
201001	TREE REMOVAL (6 TO 15 IN. DIA.)	IN. DIA.	22
201002	TREE REMOVAL (OVER 15 IN. DIA.)	IN. DIA.	18
301001	AGGREGATE BASE COURSE, TYPE A	TON	74
405003	BITUMINOUS MIXTURE COMPLETE	TON	28

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY		
		SUPERSTRUCTURE	SUBSTRUCTURE	TOTAL
CONCRETE REMOVAL	CU. YD.	9	180	189
CLASS X CONCRETE	CU. YD.	13.0	288.5	301.5
STRUCTURAL STEEL	POUND	17830		17830
CLEANING & PAINTING	L. SUM	1		1
REINFORCEMENT BARS	POUND	900	33320	34,220
STEEL PILES HP 14 x 73	LIN. FT.		605	605
TEST PILES HP 14 x 73	EACH		1	1
STEEL PILES HP 14 x 117 (SPECIAL)	LIN. FT.		220	220
EXPANSION DEVICE REMOVAL	LIN. FT.	52		52
TEMPORARY SUPPORT SYSTEM	EACH		1	1
JACKING & CRIBBING EXISTING STRUCTURE	EACH		4	4
NEOPRENE EXPANSION JOINT (9")	LIN. FT.	55		55
ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	18		18
HINGE REPLACEMENT	L. SUM	1		1
STRINGER REPAIR	L. SUM	1		1
BRACED EXCAVATION	L. SUM		1	1
REMOVAL OF EXISTING BEARINGS	L. SUM	1		1
TREE REMOVAL (6 TO 15 IN. DIA.)	IN. DIA.		22	22
TREE REMOVAL (OVER 15 IN. DIA.)	IN. DIA.		18	18
AGGREGATE BASE COURSE, TYPE A	TON		74	74
BITUMINOUS MIXTURE COMPLETE	TON		28	28

REVISIONS	
NAME	DATE

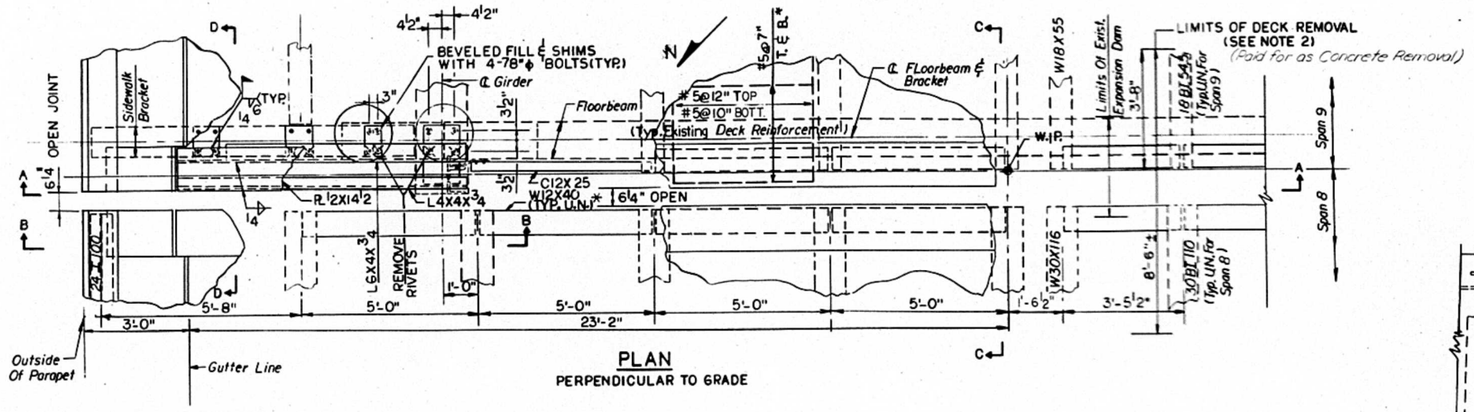
BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS
GENERAL NOTES,
STANDARD DRAWINGS,
SUMMARY OF QUANTITES
& BILL OF MATERIALS
CEDAR STREET BRIDGE
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

Rev. 6-15-82 Revised

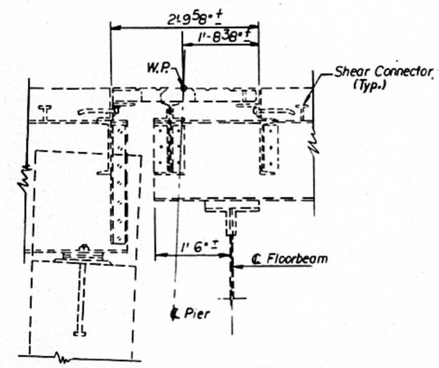
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA TAZEWELL	20	4
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET S3 OF 11



PLAN
PERPENDICULAR TO GRADE

* U.N. = UNLESS NOTED

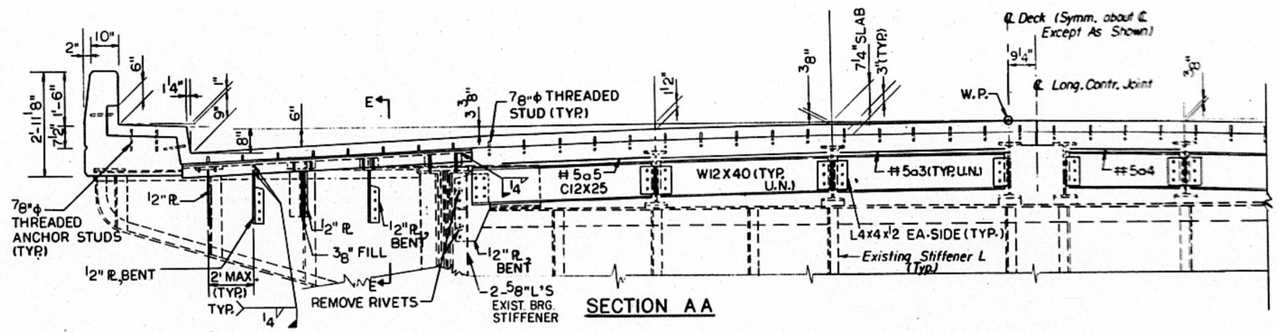


EXISTING JOINT AT CENTERLINE

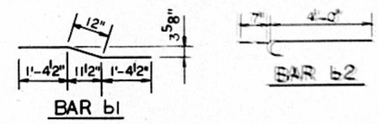
BAR SCHEDULE & BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a1	4	5	15'-11	—
a2	4	5	16'-3	—
a3	27	5	4'-3	—
a4	5	5	3'-2	—
a5	4	5	3'-2	—
a12	1	5	25'-9	—
a15	1	5	26'-3	—
a22	1	5	25'-3	—
a25	1	5	25'-8	—
b2	38	5	4'-7	
b1	82	5	3'-9	
CLASS X CONCRETE			CU. YD.	13.0
REINFORCEMENT BARS			POUND	900
CONCRETE REMOVAL			CU. YD.	9
NEOPRENE EXPANSION JOINT (9")			LIN. FT.	55
STRUCTURAL STEEL			POUND	8010
STRINGER REPAIR			L. SUM	1
EXPANSION DEVICE REMOVAL**			LIN. FT.	52

** COST TO INCLUDE REMOVAL OF EXISTING DIAPHRAGMS.

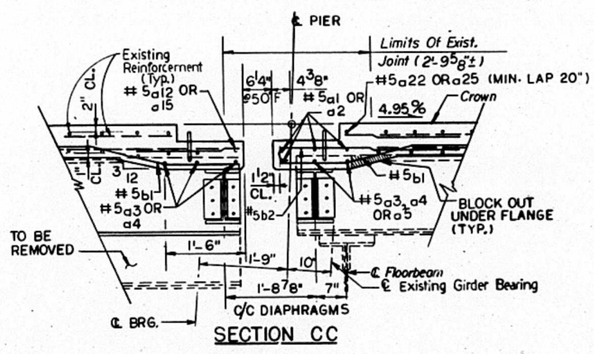


SECTION AA

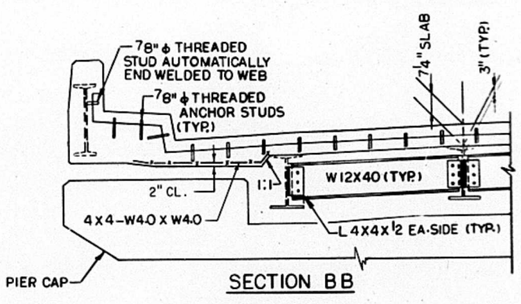


NOTES

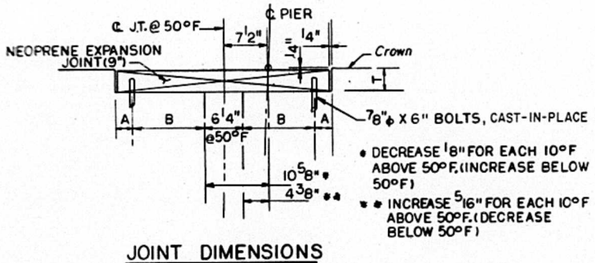
1. ALL DETAILS ARE SHOWN FOR THE MEAN TEMPERATURE OF 50° F. JOINT OPENINGS SHALL BE ADJUSTED IN ACCORDANCE WITH ARTICLE 503-07C OF THE STANDARD SPECIFICATIONS, WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.
2. THE LIMITS OF REMOVAL OF THE DECK, SAFETY WALK & PARAPET SHALL BE SAWCUTS AT LEAST 3/4" DEEP. A BONDING AGENT SHALL BE APPLIED AT THE INTERFACE OF THE NEW & EXISTING CONCRETE, & THE NEW CONCRETE SHALL CONFORM TO THE LINES OF THE EXISTING.
3. THE EXISTING REINFORCEMENT PATTERNS SHOWN SHALL BE MAINTAINED, AND EXISTING BARS CLEANED AND REUSED WHERE POSSIBLE. THE BILL OF MATERIAL IS BASED ON THE REUSE OF EXISTING BARS, AND DOES NOT INCLUDE THE NECESSARY EXTENSIONS TO THE LONGITUDINAL BARS. NEW #5 BARS SHALL BE SPLICED TO THE EXISTING BY CAPPING AT LEAST 20".
4. CONNECTIONS FOR ALL DIAPHRAGMS & STRUTS SHALL BE 7/8" ϕ HIGH STRENGTH BOLTS WITH HARDENED WASHERS. HOLES SHALL BE 1 1/16" ϕ.
5. FOR SEC. EE & D-D AND PARAPET REINFORCEMENT, SEE SHEET S4A OF 11.



SECTION CC



SECTION BB



JOINT DIMENSIONS

ALTERNATE NEOPRENE EXPANSION JOINTS (9")
(SEE SPECIAL PROVISIONS)

MODEL	SUPPLIER	BLOCKOUT DIMENSIONS
1. TRANSFLEX MODEL 900*	GENERAL TIRE CO.	T=3 13/16, A=2 7/8, B=12 3/8

* THE EXPANSION DEVICE SHALL BE TRANSFLEX MODEL 900 OR APPROVED EQUAL.

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

DECK JOINT DETAILS

CEDAR STREET BRIDGE

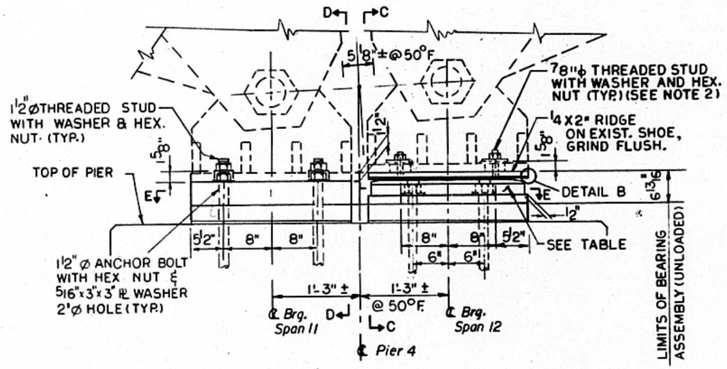
F.A.I. ROUTE 669
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

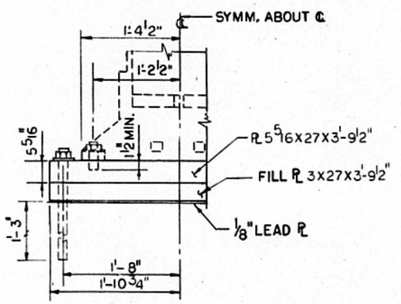
SECTION 103B-1-3

Rev. 6-15-82

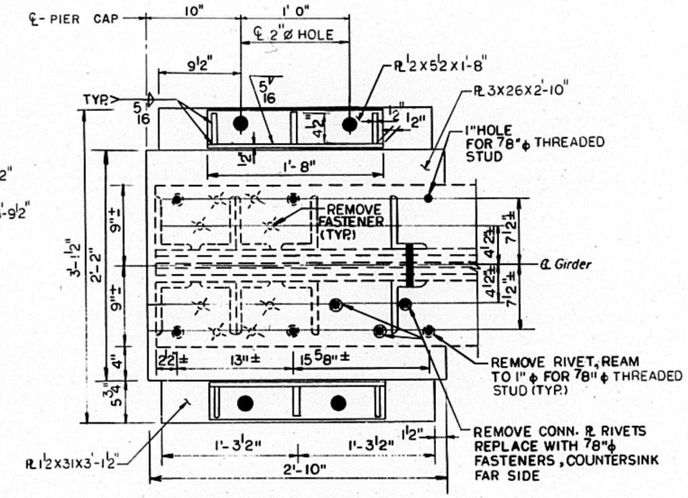
F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
669	103 B-1-3	PEORIA / TAZEWELL	20	5
STA 0+00		TO STA 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET S4 OF 11

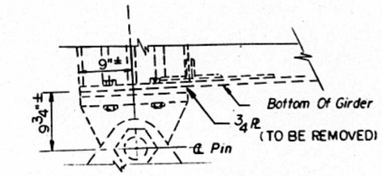




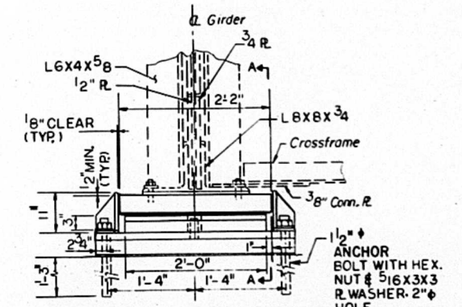
SECTION DD



SECTION BB

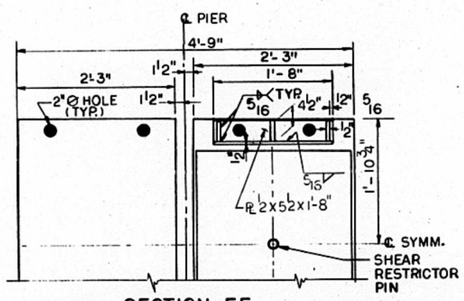


EXISTING BEARING DETAIL AT PIER 1 (SPAN 9)

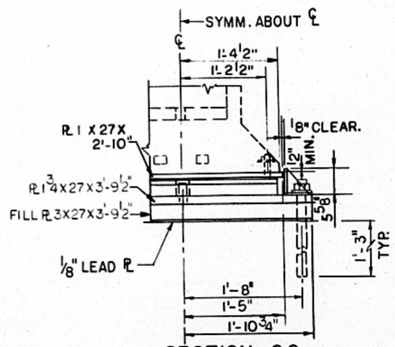


END VIEW OF NORTH GIRDER AT PIER 1 (SPAN 9)

(SOUTH GIRDER OPP.)



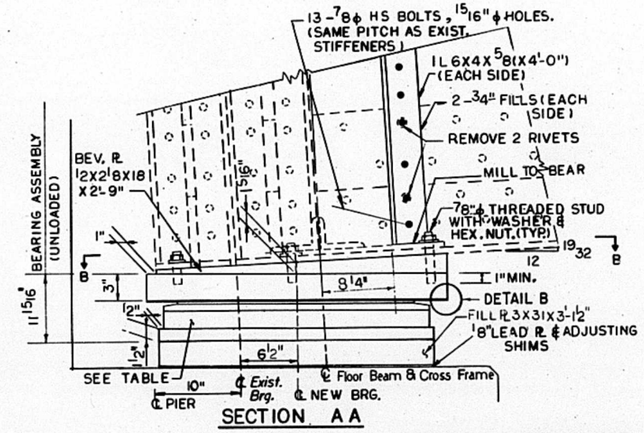
SECTION EE



SECTION CC

PIER 4 BEARINGS

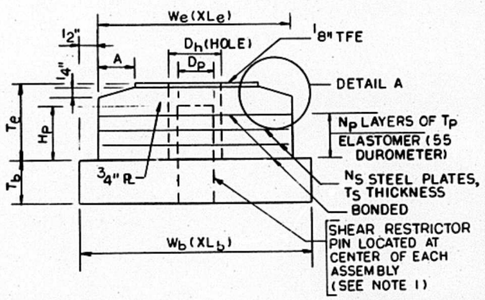
(2 UNITS REQ'D)

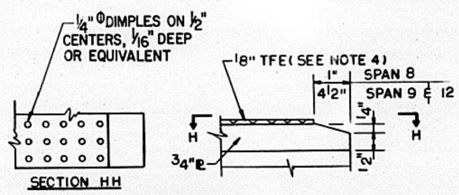


SECTION AA

SPAN 9 BEARINGS

(2 REQ'D)





SECTION HH

DETAIL A

TFE SURFACE

LOCATION	NO. REQ'D	A	We	Le	Te	Np	Tp	Ns	Ts	Wb	Lb	Tb	Dh	Dp	Hp
SPAN 8, TYP.	8	1	5 1/2	9 1/2	1 15/16	3	5/16	2	14GA.	6 1/2	22	1 1/4	1 1/2	1	1 1/2
" " CEN.	2*	"	"	"	"	"	"	"	"	"	40 1/2	"	"	"	"
" " PARA.	2	"	7	5	"	"	"	"	"	8	11 1/2	"	"	"	"
SPAN 9	2	4 1/2	30	24	7 3/8	6	7/8	5	14	31	36	1 1/2	2	1 1/2	6 3/4
SPAN 12	2	"	26	32	4	3	7/8	2	"	27	44	1 3/4	"	"	3 5/8

* 1 MASONRY PLATE REQ'D

(DIMENSIONS IN INCHES)

BOTTOM BEARING ASSEMBLIES

NOTES

1. THE SHEAR RESTRICTOR PINS SHALL BE AISI 4340 QUENCHED & TEMPERED & PRESS FIT INTO THE BOTTOM PLATES (FULL DEPTH).
2. THE 3 1/2" x 1 3/4" SLOTTED HOLES IN THE EXISTING SHOE SHALL BE FILLED WITH A BUSHING TO PROVIDE 1" ϕ HOLES FOR THE 7/8" ϕ STUDS. 5/16" PL WASHERS SHALL COVER THE HOLES.
3. FOR SPAN 9 & 12 BEARINGS, THE 1/16" STAINLESS STEEL PL SHALL BE ATTACHED BY THE CONTINUOUS FILLET WELD SHOWN IN DETAIL B & ALSO BY SPOT WELDING AT 6" CENTERS & POLISHING TO A 2B FINISH, OR BY APPLICATION OF AN APPROVED ADHESIVE.
4. THE 1/8" TFE SHALL BE BONDED DIRECTLY TO THE TOP STEEL PL WITH A TWO COMPONENT, MEDIUM VISCOSITY EPOXY RESIN, CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATIONS MMM-A-134 TYPE 1. THE BONDING AGENT SHALL BE APPLIED ON THE FULL AREA OF THE CONTACT SURFACES. BONDING OF THE 1/8" TFE SHEET DURING THE VULCANIZING PROCESS WILL BE PERMITTED PROVIDED THE PROCESS & METHOD OF ADJUSTING THE ASSEMBLY HEIGHT IS APPROVED BY THE ENGINEER.
5. ALL BEARINGS SHALL BE PROVIDED WITH A 3" FILL PLATE OF THE DIMENSIONS OF THE BOTTOM BEARING PLATE TO BE INSTALLED AS SHOWN. THE BEARING SEATS SHALL BE CONSTRUCTED TO THE ELEVATIONS SHOWN ON THE PIER DRAWINGS AND THE ANCHOR BOLTS GROUTED INTO HOLES DRILLED OR CAST IN THE CONCRETE. THE BEARINGS SHALL BE ASSEMBLED PRIOR TO GROUTING OF BOLTS, WITH SOME PROVISION MADE FOR OVERFLOW OF GROUT.
6. ALL EXISTING BEARINGS & PINS AT PIER 4 SHALL BE CLEANED & PAINTED.
7. FOR ANCHOR BOLT SETTING DETAILS, SEE SHEET S4 OF S11

BILL OF MATERIAL

ITEM	UNIT	QUANT.
ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	16.
REMOVAL OF EXISTING BEARINGS	L. SUM	1.
STRUCTURAL STEEL	POUND	2465.

LEGEND

- NEW FASTENER
- REMOVE EXISTING RIVET & REPLACE WITH 7/8 ϕ FASTENER
- REMOVE EXISTING RIVET
- EXISTING FASTENER

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

REVISIONS	
NAME	DATE

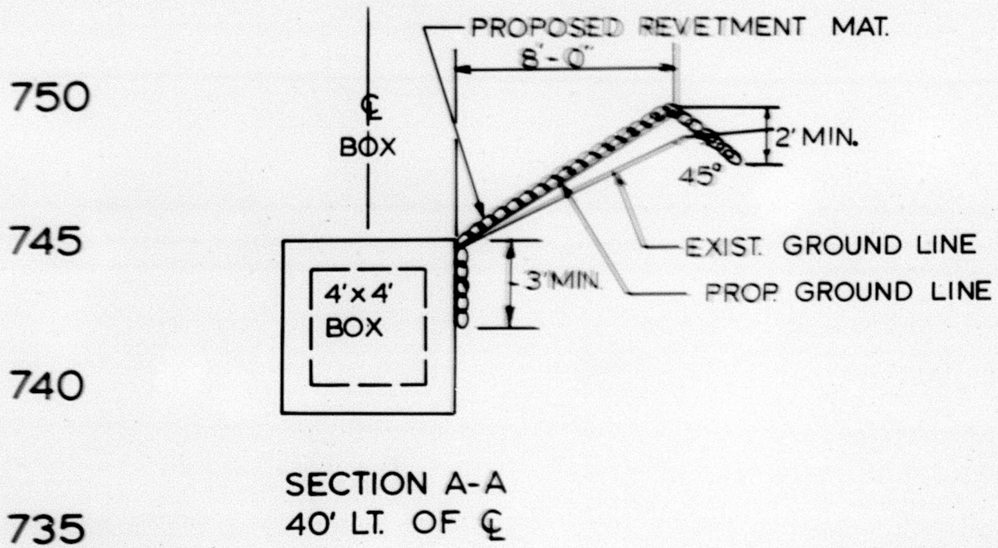
ILLINOIS DIVISION OF HIGHWAYS

BEARING DETAILS

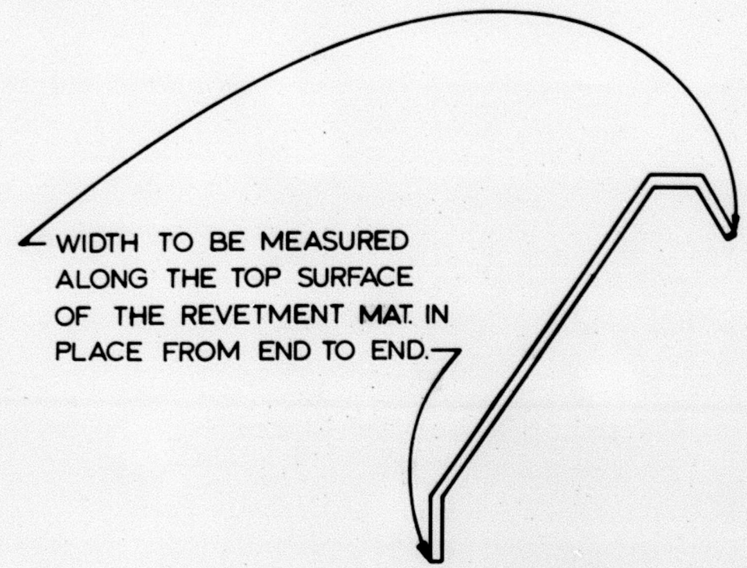
CEDAR STREET BRIDGE

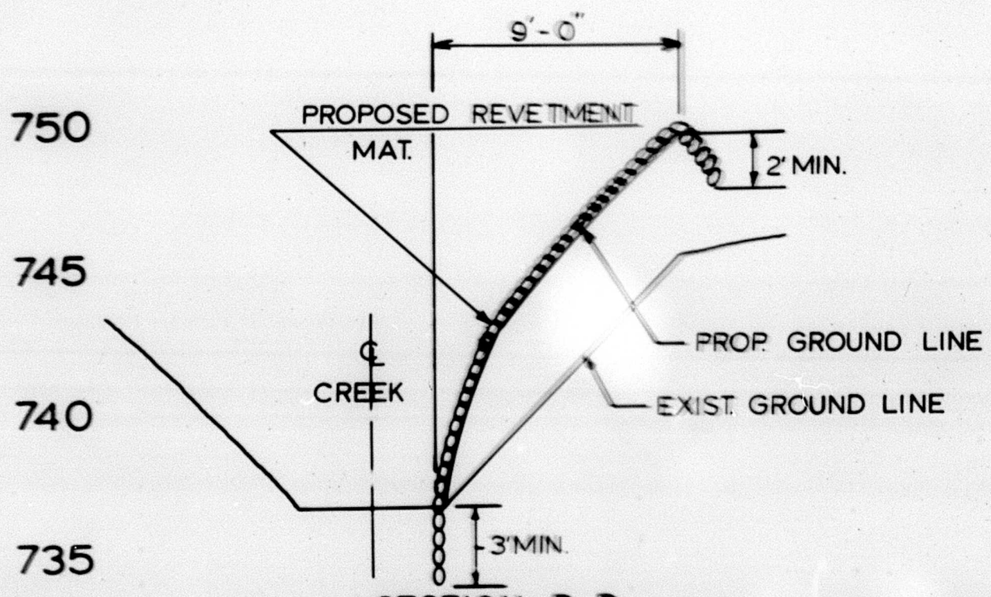
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

ROUTE		SECTION	COUNTY	SHEET TOTAL	SHEET NO.
S.B.I.	85	103 - I	MERCER	9	6
MKD.	U.S. 67				
PROJ.		STA.	TO STA.		



SECTION A-A
40' LT. OF ℄



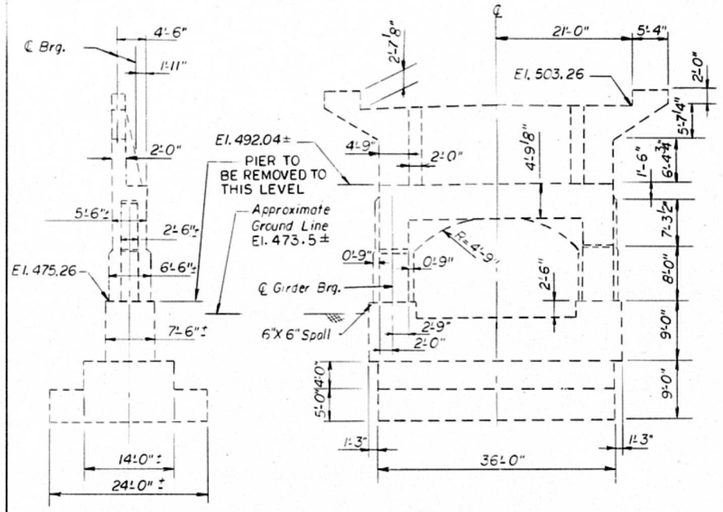


SECTION B-B
45' LT. OF ℄

INSTALLATION DETAILS
NOT TO SCALE

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	NO.
669	103B-1-3	PEORIA / TAZEWELL	20	7
STA 0+00		TO STA 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

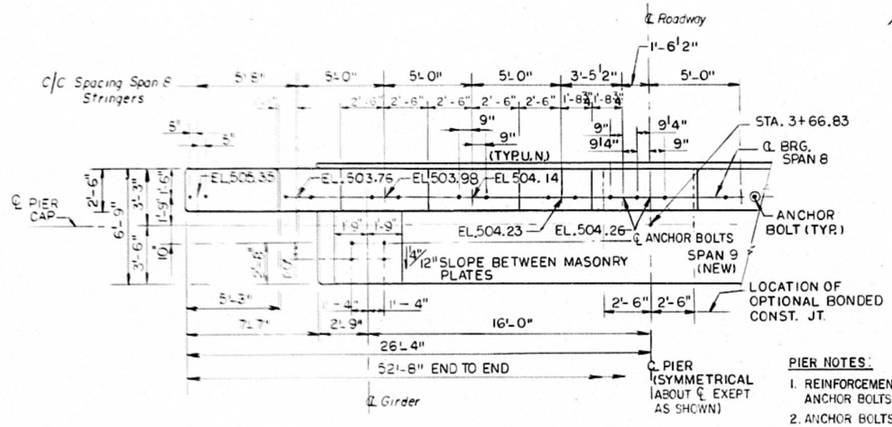
SHEET S5 OF 11



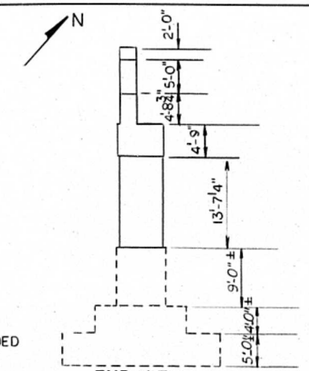
S.W. ELEVATION

S.E. ELEVATION

EXISTING PIER NO. 1



PLAN PIER NO. 1



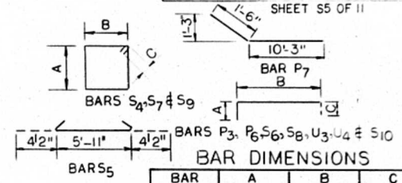
END VIEW

PIER NOTES:

1. REINFORCEMENT SHALL BE PLACED SO AS TO AVOID INTERFERENCE WITH ANCHOR BOLTS.
2. ANCHOR BOLTS SHALL BE GROUTED INTO PLACE AFTER ASSEMBLY OF BEARINGS. HOLES FOR BOLTS SHALL BE DRILLED OR CAST IN THE CONCRETE.
3. ALL DETERIORATED AREAS (5 SQ.FT.) IN THE PEDESTAL ABOVE GROUND LEVEL SHALL BE PATCHED. COST INCIDENTAL.

ABUTMENT NOTES:

1. CONTRACTOR SHALL SUBMIT DETAILED PLANS SHOWING PROPOSED TEMPORARY SUPPORT SYSTEM FOR THE SIDEWALK STRINGER TO THE ENGINEER FOR HIS APPROVAL PRIOR TO STARTING ANY WORK IN THE AREA.
2. THE LIMITS OF ALL CONCRETE REMOVAL AND REPAIR SHALL BE CLEAN CUTS AT LEAST 34" DEEP. THE NEW CONCRETE SHALL BE APPLIED OVER A BONDING AGENT AND SHALL CONFORM TO THE LINES OF THE EXISTING CONCRETE.
3. ALL EXISTING REINFORCEMENT (EXCEPT TIES) SHALL BE CLEANED AND REUSED. AT LEAST 4 LONGITUDINAL BARS SHALL BE FIRMLY EMBEDDED IN THE EXISTING SOUND CONCRETE. DRILL AND GROUT NEW DOWELS IF NECESSARY.



BAR DIMENSIONS

BAR	A	B	C
P6	1'-6"	4'-10"	3'-4"
S4	6'-2	4'-5"	0'-4 1/2"
S6	8'-6"	2'-2"	8'-6"
S7	4'-5"	6'-8"	0'-6 1/2"
S8	2'-9"	2'-2"	2'-9"
U3	1'-0"	2'-1"	1'-0"
U4	1'-0"	5'-6"	—
S9	1'-1"	0'-8"	0'-4 1/2"
S10	3'-3"	2'-2"	3'-3"
P3	4'-0"	37'-0"	4'-0"

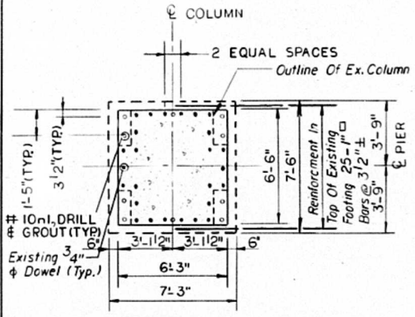
BAR SCHEDULE & BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h1	8	4	27'-0"	—
h2	10	4	21'-0"	—
h3	10	4	17'-3"	—
h4	4	4	4'-11"	—
h5	10	4	*	—
* 2@27'-8", 2@26'-3", 2@24'-9", 2@23'-3" & 2@21'-9"				
h6	10	4	**	—
** 2@23'-11", 2@22'-6", 2@21'-0" & 2@19'-6" & 2@18'-0"				
n1	20	10	9'-0"	—
P2	12	9	32'-4"	—
P3	6	8	45'-0"	—
P4	8	9	13'-6"	—
P5	8	5	29'-6"	—
P6	8	5	9'-6"	—
P7	8	5	11'-9"	—
S4	76	4	21'-11"	—
S5	76	4	6'-8"	—
S6	64	6	19'-2"	—
S7	25	6	23'-3"	—
S8	12	4	7'-6"	—
S10	8	4	8'-8"	—
U3	20	4	4'-1"	—
U4	10	4	6'-5"	—
V2	20	10	18'-1"	—
V3	36	6	18'-1"	—
V4	28	6	5'-7"	—
V5	2	4	6'-10"	—
CLASS X CONCRETE			CU.YD.	130.
REINFORCEMENT BARS			POUND	11,470
CONCRETE REMOVAL ***			CU.YD.	86.

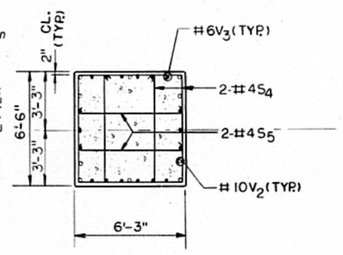
*** COST OF THIS ITEM TO INCLUDE REMOVAL OF ALL TEMPORARY REPAIR WORK.

WEST ABUTMENT, N. COL.

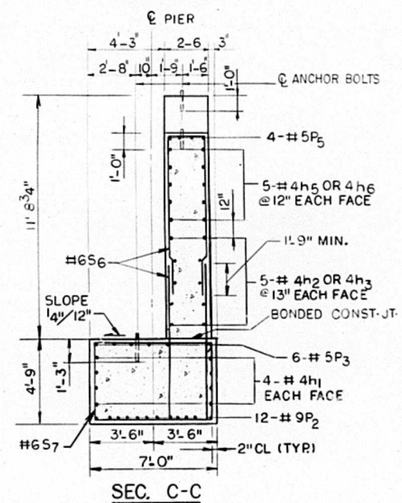
V6	4	6	4'-5"	—
S9	5	4	4'-3"	—
TEMPORARY SUPPORT SYST.			EACH	1.
CLASS X CONCRETE			CU.YD.	0.3
REINFORCEMENT BARS			POUND	40.
CONCRETE REMOVAL			CU.YD.	0.3



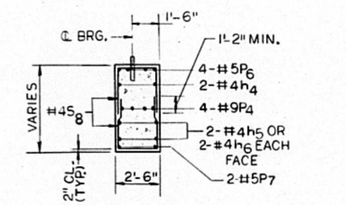
SEC. A-A



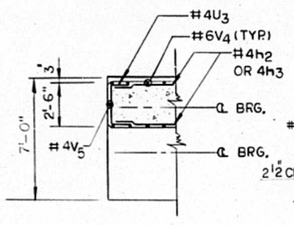
SEC. B-B



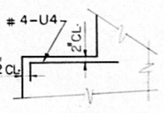
SEC. C-C



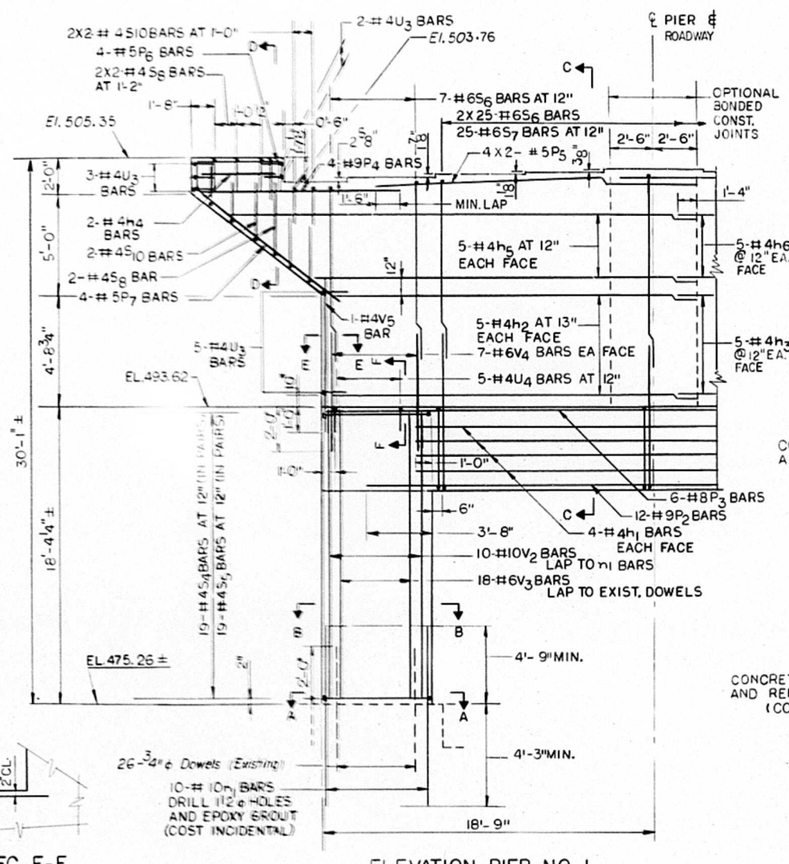
SEC. D-D



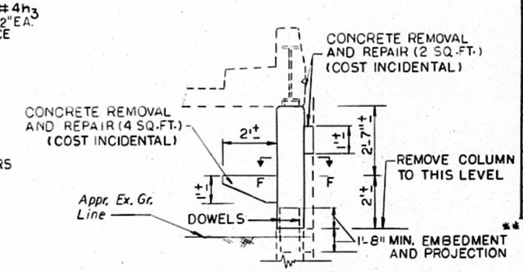
SEC. E-E



SEC. F-F



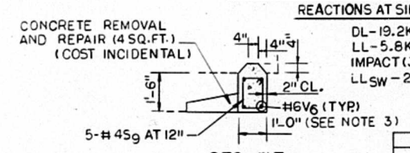
ELEVATION PIER NO. 1



ELEVATION
N. COLUMN AT W. ABUT.

REACTIONS AT SIDEWALK STRINGER

DL-19.2K
LL-5.8K
IMPACT (30%)-1.7K
LL_{SW}-2.6K



SEC. F-F

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

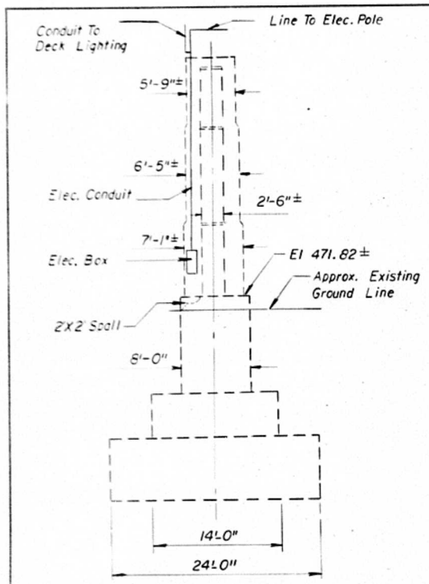
PIER I DETAILS
AND
WEST ABUTMENT REPAIRS

CEDAR STREET BRIDGE

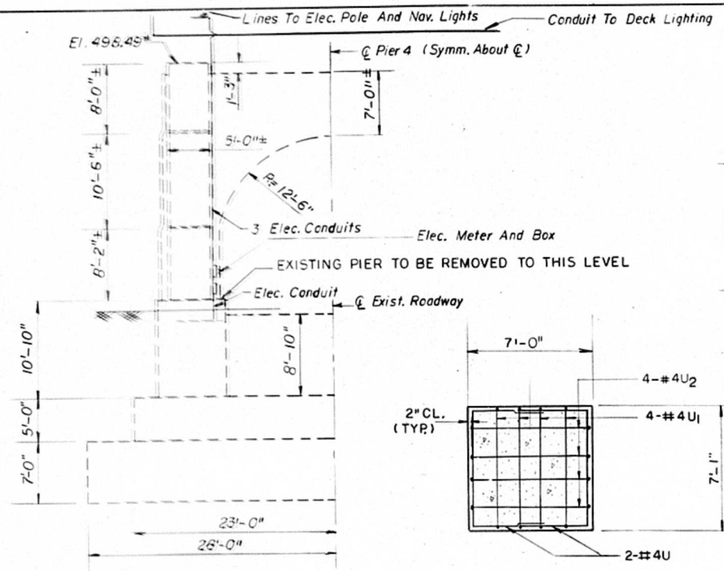
F.A.I. ROUTE 669 — SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA/ TAZEWELL	20	8
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET S6 OF 11

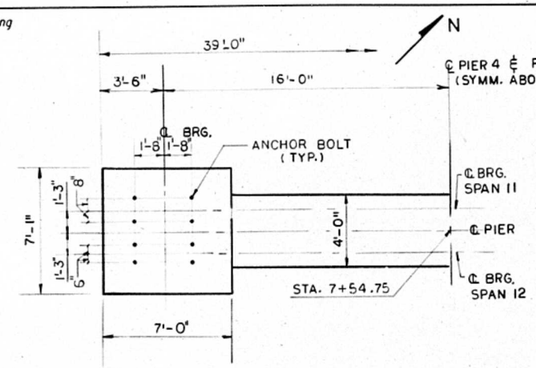


S. E. ELEVATION



N. E. ELEVATION

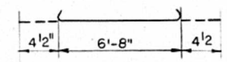
EXISTING PIER 4



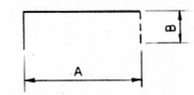
PLAN PIER 4

BAR DIMENSIONS

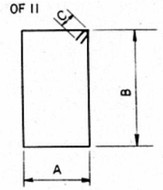
BAR	A	B	C
S	2'-9½"	4'-8"	6½"
S_1	3'-8"	4'-8"	6½"
S_2	4'-10½"	6'-8"	4½"
U	6'-9"	3'-10"	—
U_1	6'-9"	1'-0"	—
U_2	6'-8"	1'-0"	—
P_1	38'-8"	3'-6"	—



BAR S_3



BARS P_1, U, U_1 & U_2



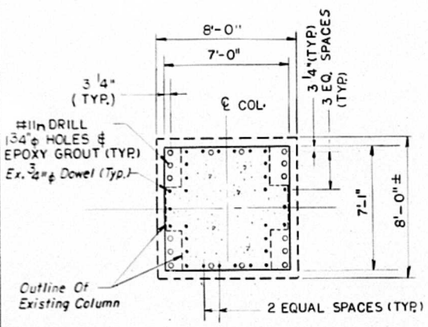
BARS S, S_1 & S_2

SEC. E-E

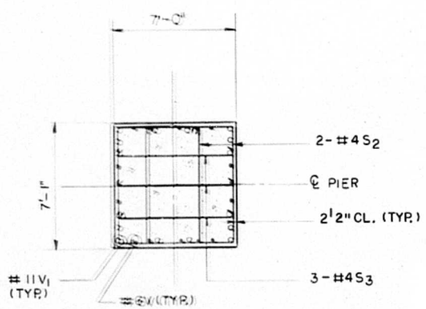
BAR SCHEDULE & BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	8	4	27'-10"	—
n	32	11	12'-5"	—
P	9	9	32'-4"	—
P_1	5	6	45'-8"	⊓
S	20	6	16'-0"	⊐
S_1	12	6	17'-9"	⊐
S_2	104	4	23'-10"	⊐
S_3	156	4	7'-5"	⊂
U	4	4	14'-5"	⊔
U_1	8	4	8'-9"	⊔
U_2	8	4	8'-8"	⊔
V	36	6	26'-4"	—
V_1	32	11	26'-4"	—
CLASS X CONCRETE			CU. YD.	119.
REINFORCEMENT BARS			POUND	12820.
CONCRETE REMOVAL *			CU. YD.	94.

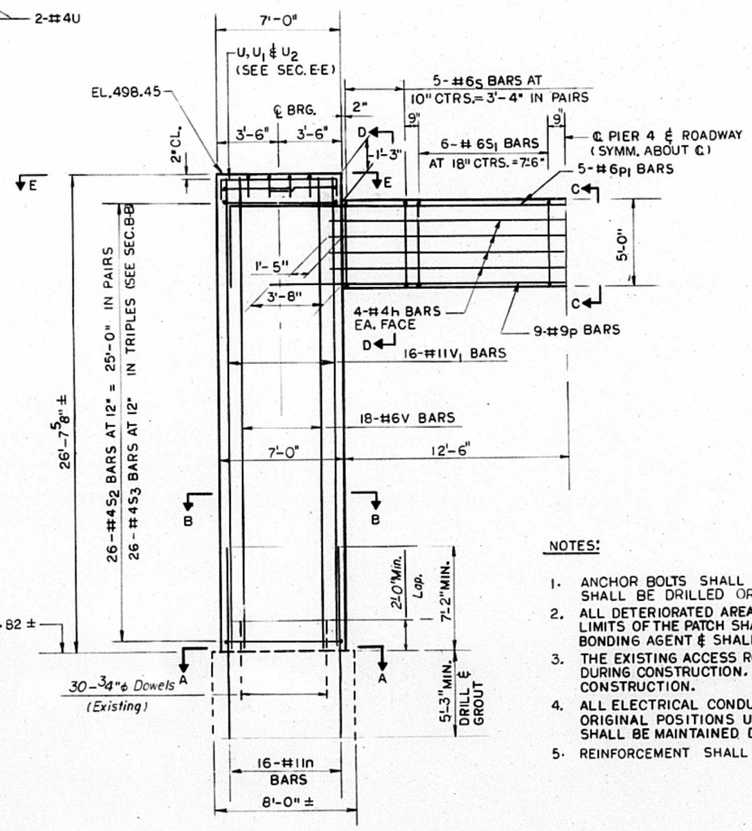
*COST OF THIS ITEM TO INCLUDE REMOVAL OF ALL TEMPORARY REPAIR WORK.



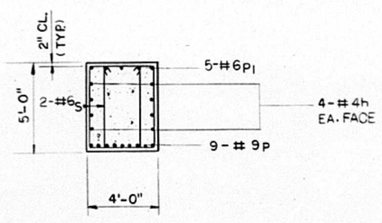
SEC. A-A



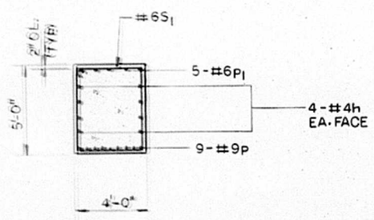
SEC. B-B



ELEVATION PIER 4



SEC. D-D



SEC. C-C

NOTES:

1. ANCHOR BOLTS SHALL BE GROUTED INTO PLACE AFTER ASSEMBLY OF BEARINGS. HOLES FOR BOLTS SHALL BE DRILLED OR CAST IN THE CONCRETE.
2. ALL DETERIORATED AREAS (10 SQ. FT.) IN THE PEDESTAL ABOVE GROUND LEVEL SHALL BE PATCHED. THE LIMITS OF THE PATCH SHALL BE CLEAN CUTS AT LEAST ¾" DEEP. THE NEW CONCRETE SHALL BE APPLIED OVER A BONDING AGENT & SHALL CONFORM TO THE LINES OF THE EXISTING CONCRETE. COST INCIDENTAL.
3. THE EXISTING ACCESS ROADWAY SHALL BE RELOCATED AS SHOWN ON THE GENERAL PLAN, & MAINTAINED DURING CONSTRUCTION. IT SHALL BE RETURNED TO ITS ORIGINAL POSITION UPON COMPLETION OF CONSTRUCTION.
4. ALL ELECTRICAL CONDUITS, BOXES & METERS SHALL BE RELOCATED AS REQUIRED & RETURNED TO THEIR ORIGINAL POSITIONS UPON COMPLETION OF CONSTRUCTION. ALL ELECTRICAL SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION.
5. REINFORCEMENT SHALL BE PLACED SO AS TO AVOID INTERFERENCE WITH ANCHOR BOLTS.

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

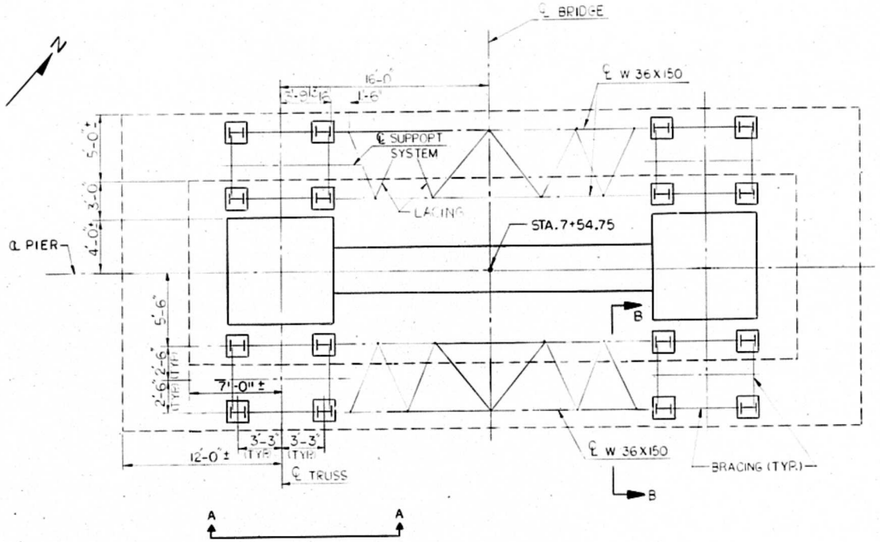
PIER 4 DETAILS

CEDAR STREET BRIDGE

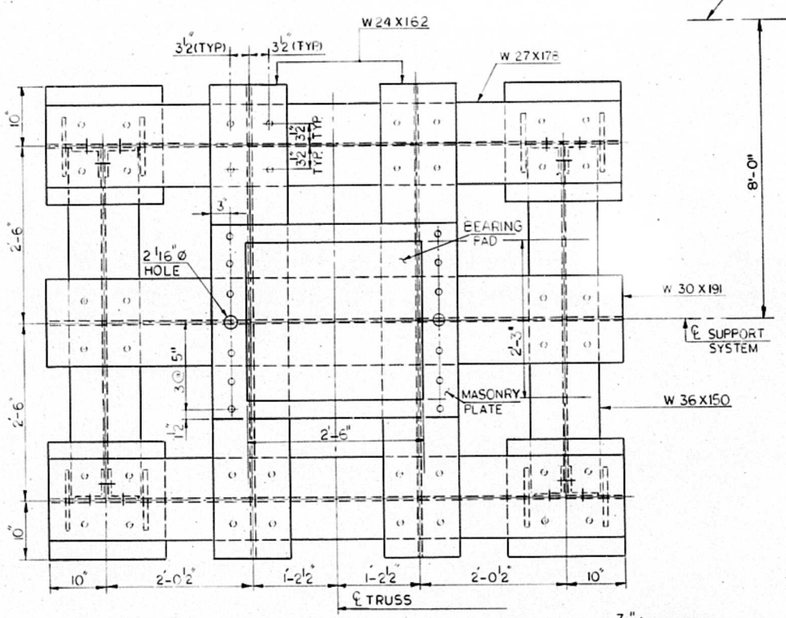
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	1038-1-3	PEORIA / TAZEWELL	20	9
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET S7 OF 11

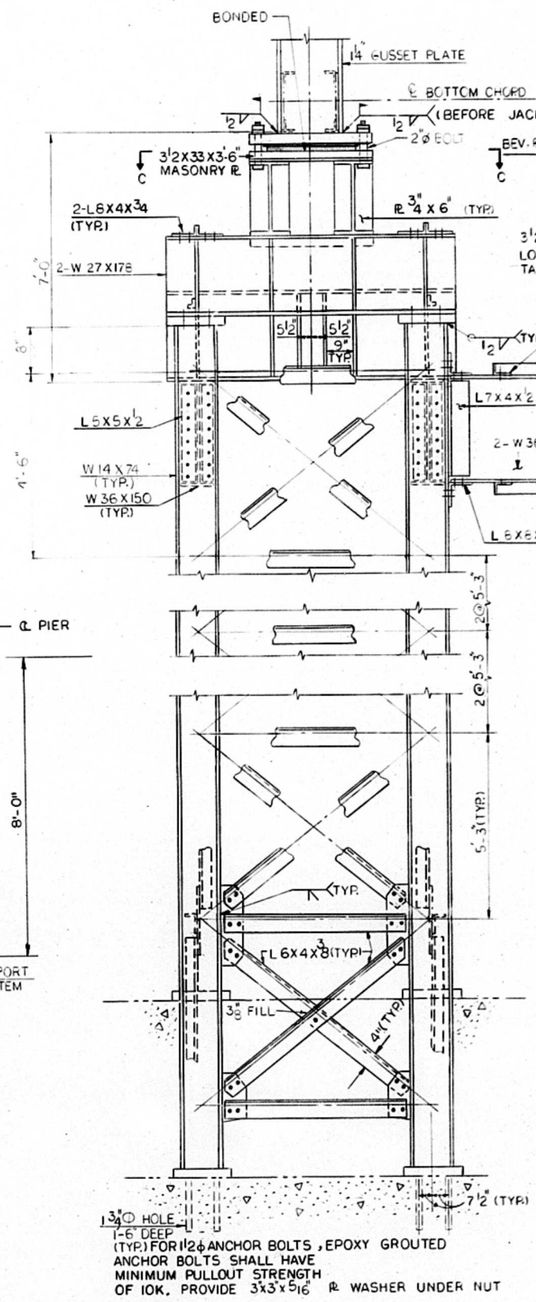


PLAN-PIER NO. 4



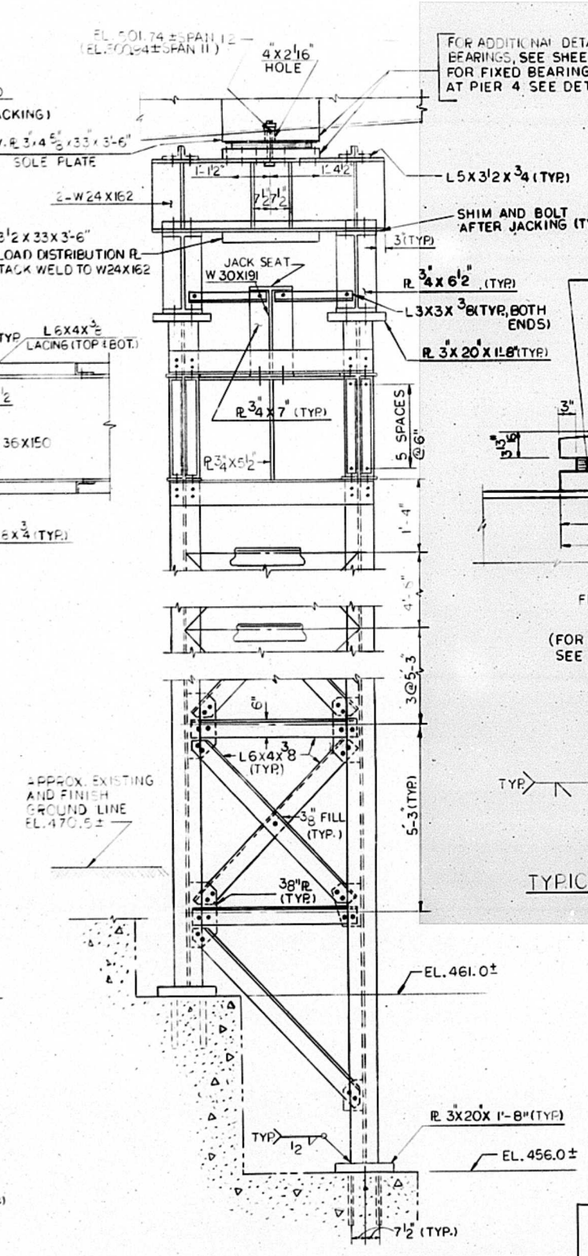
ALL BOLTS ARE 7/8" Ø H.S. BOLTS UNLESS OTHERWISE NOTED.

SECTION C-C



(TYP.) FOR 1 1/2 Ø ANCHOR BOLTS, EPOXY GROUTED ANCHOR BOLTS SHALL HAVE MINIMUM PULLOUT STRENGTH OF 10K. PROVIDE 3"X3"X5/16" PL WASHER UNDER NUT

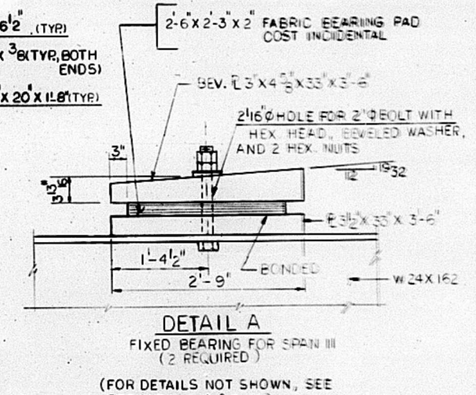
VIEW A-A



VIEW B-B

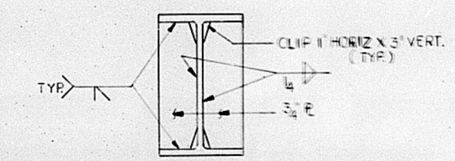
FOR ADDITIONAL DETAILS OF EXPANSION BEARINGS, SEE SHEET S8B
FOR FIXED BEARINGS OF SPAN II AT PIER 4, SEE DETAIL A.

JACKING LOAD PER TOWER
DEAD LOAD ____ 425 KIPS
LIVE LOAD INCLUDING IMPACT ____ 175 "
TOTAL ____ 600 KIPS



DETAIL A
FIXED BEARING FOR SPAN III (2 REQUIRED)

(FOR DETAILS NOT SHOWN, SEE SEE VIEW A-A & B-B.)



TYPICAL STIFFENER DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANT.
JACKING & CRIBBING EXISTING STRUCTURE	EACH	2

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

TEMPORARY TRUSS SUPPORT - PIER NO. 4

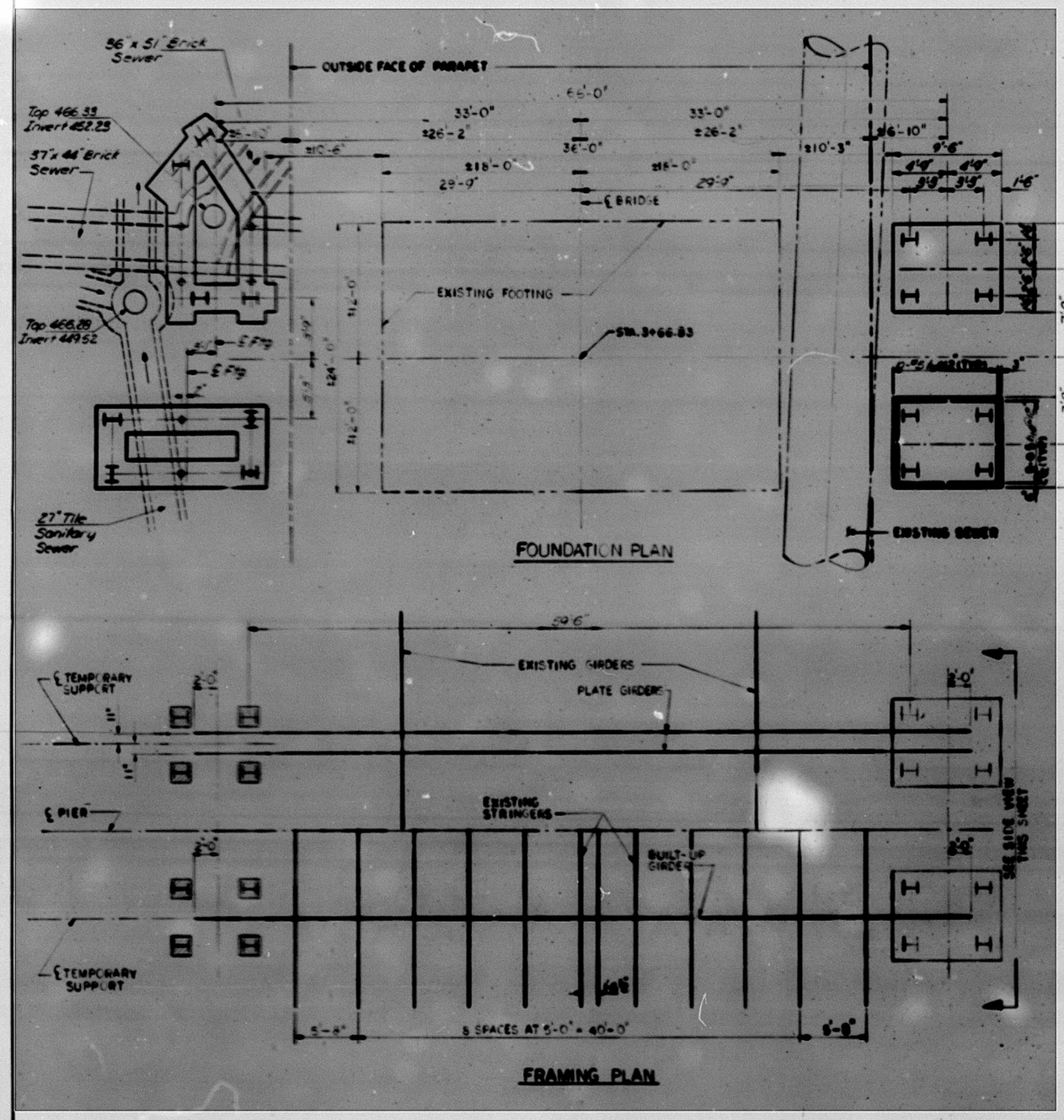
CEDAR STREET BRIDGE

F.A.I. ROUTE 669
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

SECTION 1038-1-3

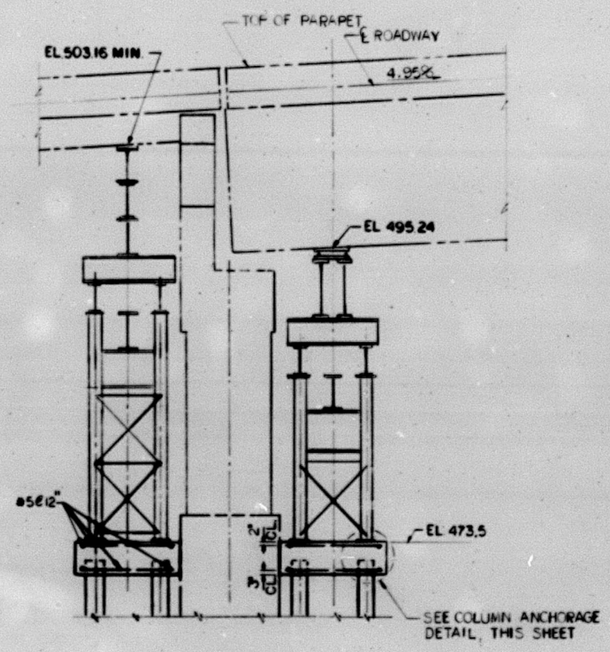
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	1038-1-3	PEORIA TAZEWELL	20	18
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET 58 OF 11



BILL OF MATERIAL

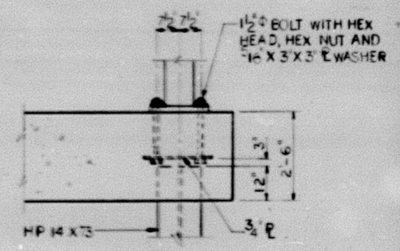
ITEM	UNIT	QUANT.
JACKING & CRIBBING EXISTING STRUCTURES	EACH	2



SIDE VIEW

Note: Work this sheet with sheet 58AA of 11.

Note: Foundations for Temporary Truss Supports shall be left in place after work is completed.



COLUMN ANCHORAGE DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS

TEMPORARY GIRDER & STRINGER SUPPORT - PIER NO. 1

CEDAR STREET BRIDGE

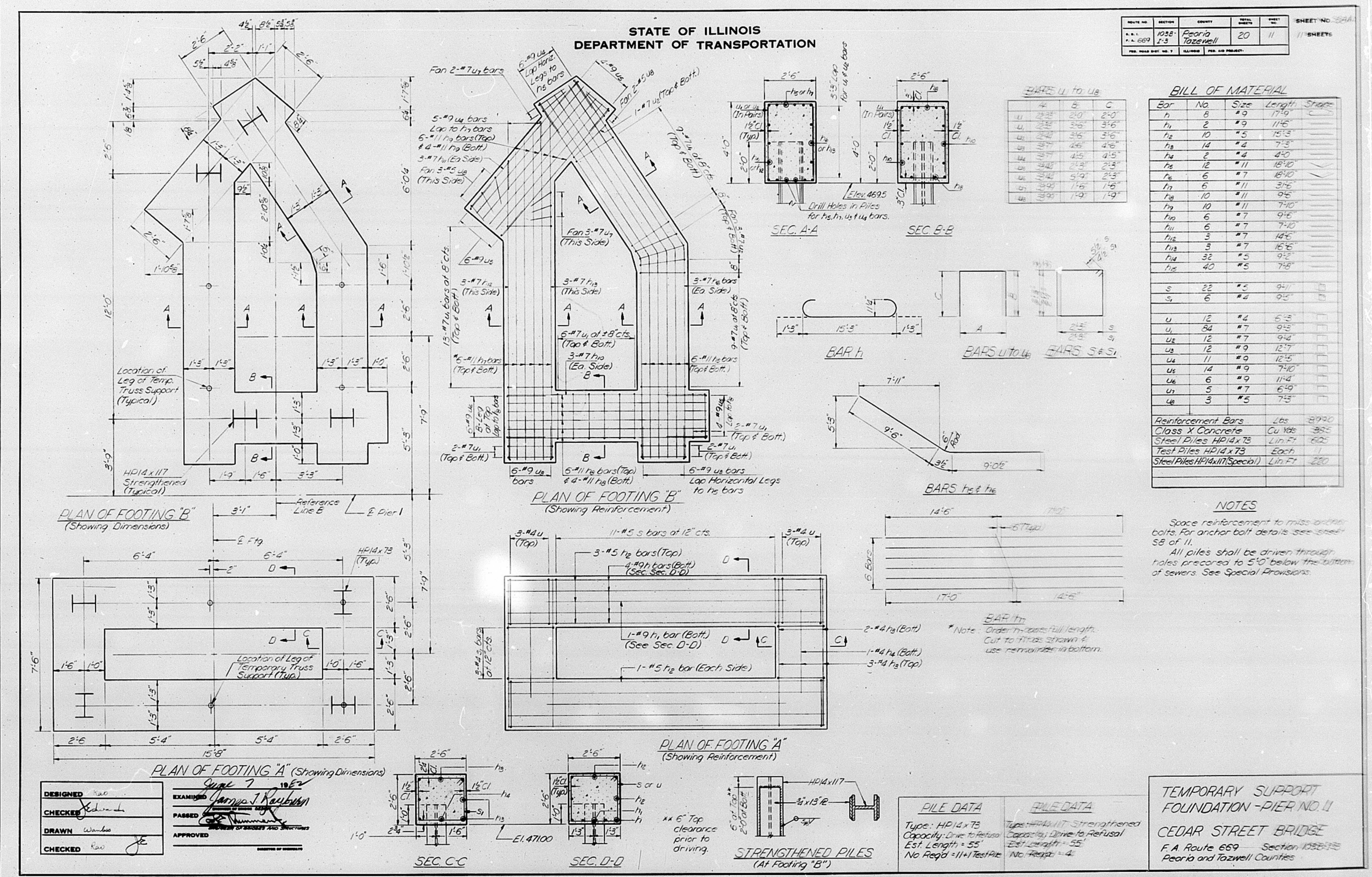
F.A.I. ROUTE 669
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

SECTION 1038-1-3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
A. B. I. / F. A. 669	103B-1 / 1-3	Peoria / Tazewell	20	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8 OF 11 SHEETS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	8	#9	17'-9"	
h1	2	#9	11'-6"	
h2	10	#5	15'-3"	
h3	14	#4	7'-3"	
h4	2	#4	4'-0"	
h5	12	#11	18'-10"	
h6	6	#7	18'-10"	
h7	6	#11	31'-6"	
h8	10	#11	9'-5"	
h9	10	#11	7'-10"	
h10	6	#7	9'-6"	
h11	6	#7	7'-10"	
h12	3	#7	14'-6"	
h13	3	#7	16'-6"	
h14	32	#5	9'-2"	
h15	40	#5	7'-8"	
s	22	#5	9'-11"	
s1	6	#4	9'-5"	
u	12	#4	6'-3"	
u1	84	#7	9'-5"	
u2	12	#7	9'-4"	
u3	12	#9	12'-7"	
u4	11	#9	12'-5"	
u5	14	#9	7'-10"	
u6	6	#9	11'-4"	
u7	5	#7	6'-9"	
u8	3	#5	7'-5"	
Reinforcement Bars			Lbs	8990
Class X Concrete			Cu Yds	395
Steel Piles HP14x73			Lin. Ft.	605
Test Piles HP14x73			Each	11
Steel Piles HP14x117 (Special)			Lin. Ft.	220

NOTES

Space reinforcement to miss anchor bolts. For anchor bolt details see sheet 8B of 11.

All piles shall be driven through holes precored to 5'-0" below the bottom of sewers. See Special Provisions.

PLATES u1 to u8	A	B	C
u1	2'-3"	2'-0"	2'-0"
u2	2'-3"	3'-6"	3'-6"
u3	2'-4"	3'-6"	3'-6"
u4	3'-7"	4'-6"	4'-6"
u5	3'-7"	4'-5"	4'-5"
u6	3'-4"	2'-3"	2'-3"
u7	3'-4"	2'-3"	2'-3"
u8	3'-3"	1'-6"	1'-6"
	3'-3"	1'-9"	1'-9"

DESIGNED	Rao
CHECKED	Edwards
DRAWN	Wamba
CHECKED	Rao / JE

EXAMINED — Engineer of Bridge Design
PASSED — Engineer of Bridges and Structures
APPROVED — Director of Highways

Page 7 19 E2

James J. Rayburn

PILE DATA	PILE DATA
Type: HP14x73	Type: HP14x117 Strengthened
Capacity: Drive to Refusal	Capacity: Drive to Refusal
Est. Length = 55'	Est. Length = 55'
No. Req'd = 11+1 Test Pile	No. Req'd = 4

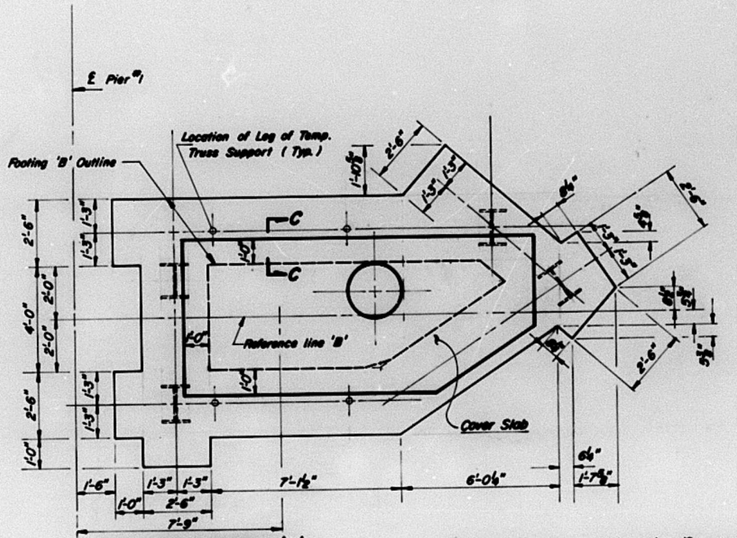
TEMPORARY SUPPORT FOUNDATION - PIER NO. 1
CEDAR STREET BRIDGE

F.A. Route 669 Section 103B-1-3
Peoria and Tazewell Counties

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A.			20	11A
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 11A
20 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN OF FOOTING 'B'
(Showing Dimensions)

NOTES:

Cover slab is to be precast in the field, and lifted into place, or cast in place at Contractor's option.

Cover slab shall be paid for as "Concrete Lids", Ea., and price shall include all concrete, forming, reinforcement bars, lifting devices, anchor bolts, grout, and all other materials and labor necessary to furnish the slab complete and in place as shown on this plan.

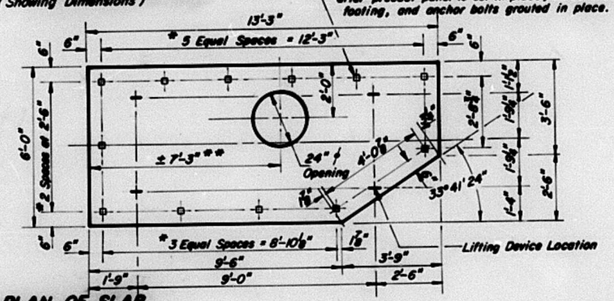
If the contractor chooses to precast the slab, he shall assume responsibility to provide lifting devices of adequate capacity and shall be resposible for the safety of lifting operation. Four devices, placed as shown on the plans, shall be used. Lifting devices shall be burned or screwed off when the slab is in place.

A ½" bed of grout, as shown in Section C-C, shall be placed over top of footin areas where slab is to rest. Grout shall be a moderately dry mixture of 2:1 sand and P.C. mortar. Grout bed is not needed if slab is cast in place.

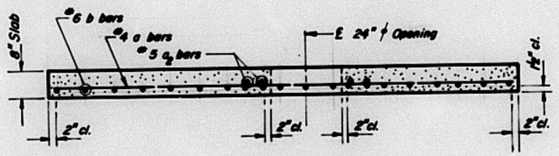
* Spacing of 1" ϕ x 1'-9" Anchor Bolts.

** 7'-3" dimension is approximate. Location of opening to be determined in the field before concrete panel is precast.

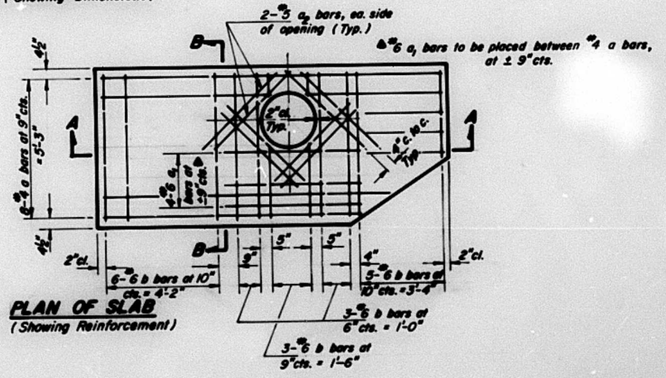
1" ϕ x 1'-9" Anchor bolts w/ 2½" x 2½" x 5/16" ℄ washer under nut (Typ.) after precast panel is set in place, holes shall be drilled through panel into footing, and anchor bolts grouted in place. Cost Incidental.



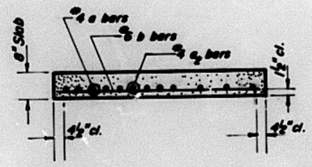
PLAN OF SLAB
(Showing Dimensions)



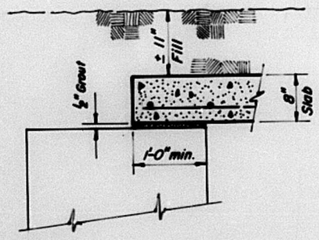
SECTION A–A
(Reinforcement)



PLAN OF SLAB
(Showing Reinforcement)



SECTION B–B
(Reinforcement)



SECTION C–C

LIST OF MATERIAL

Bar	No.	Size	Length	Shape
a	8	#4	13'-0"	
a_1	4	#6	5'-0"	
a_2	8	#5	4'-0"	
b	20	6	5'-9"	
Class X Concrete			Cu.Yds.	1.8
Reinforcement Bars			Lbs.	310

BILL OF MATERIAL

Concrete Lids	Ea.	1

Note:
Cut reinforcement as req'd. to clear opening and to fit at cut corner of slab.

DESIGN SPECIFICATIONS

Design Specifications : AASHTO (1977) and applicable Interims (1978 thru 1982 Interim Specifications)

LOADING HS 20-44

DESIGN STRESSES

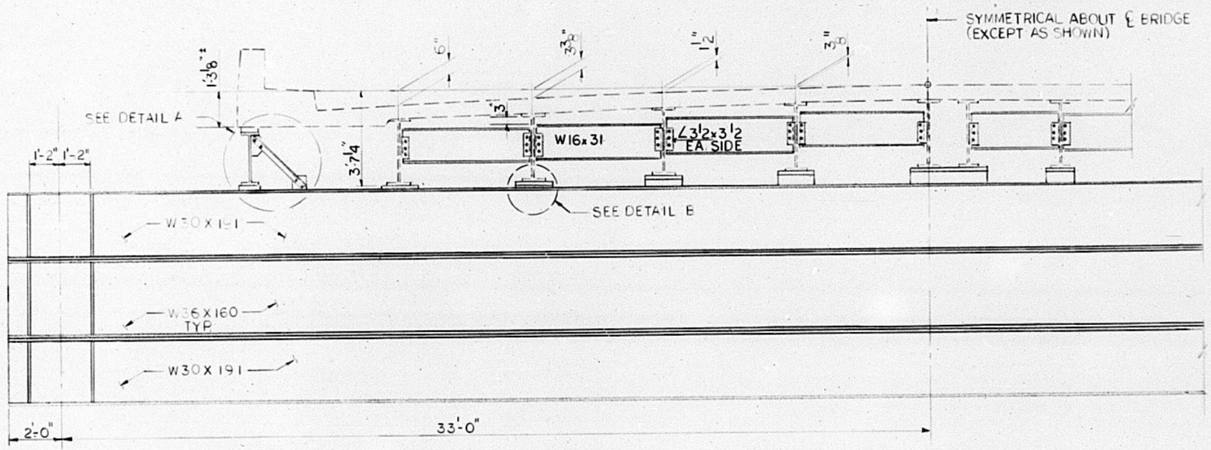
f'c = 3,500 psi Concrete
fy = 60,000 psi Reinforcement

DESIGNED	EXAMINED	19
CHECKED		ENGINEER OF BRIDGE AND TRAFFIC INVESTIGATION
DRAWN DAS	PASSED	ENGINEER OF BRIDGE
CHECKED	APPROVED	DIRECTOR OF HIGHWAYS

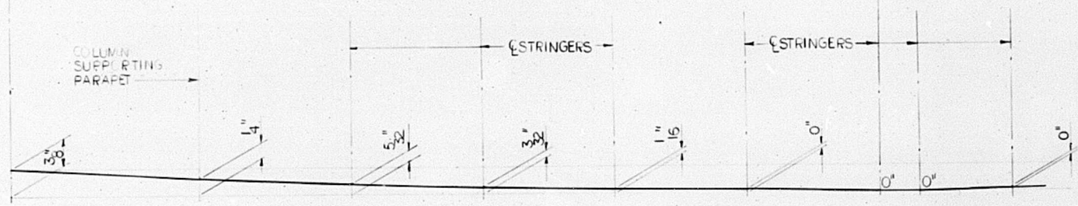
COVER SLAB FOR FOOTING 'B' AT —PIER No. 1
CEDAR STREET BRIDGE
F.A. ROUTE 669 SECTION 103B-1-3
PEORIA and TAZEWELL COUNTIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA TAZEWELL	20	12
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET S8A OF 11

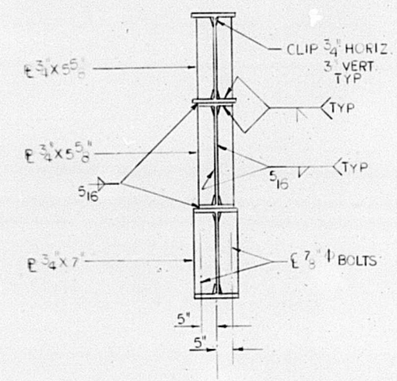


LIFTING GIRDER ELEVATION - SPAN 8 (W/EXISTING BRIDGE DECK SECTION)



DEFLECTION CORRECTION DIAGRAM

NOTE: DEPTH OF FILL AT EACH STRINGER IS EQUAL TO DISTANCE MEASURED BETWEEN TOP OF GIRDER AND BOTTOM OF STRINGER (OR BOTTOM OF COLUMN SUPPORTING PARAPET) LESS VALUE SHOWN.

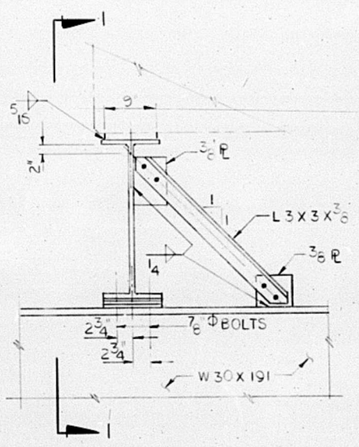


END VIEW

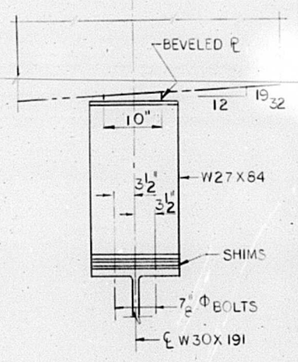
LIFTING SEQUENCE

1. DRIVE PILES FOR TOWERS (SEE SHEET S8)
2. EXCAVATE, PLACE REINFORCEMENT, POSITION TOWER BASE ANCHOR BOLTS AND POUR FOOTING CONCRETE.* (SEE SHEET S8)
3. ERECT TOWERS, INCLUDING JACKING STANDS. (SEE SHEET S7)
4. ERECT LIFTING GIRDER BENEATH STRINGERS.
5. PLACE AND WELD BEVELED SOLE PLATES TO STRINGERS.
6. MEASURE VERTICAL DISTANCE BETWEEN BOTTOM OF STRINGER AND TOP OF LIFTING BEAM AT EACH STRINGER LOCATION. PROVIDE SHIM PLATES AS NECESSARY. BETWEEN THE STRINGER AND GIRDER, PROVIDE A GAP EQUAL TO THE AMOUNT SHOWN ON THE DEFLECTION CORRECTION DIAGRAM. PLACE ANCHOR BOLTS FINGER TIGHT.
7. POSITION JACKS AND LIFT SPAN.
8. TIGHTEN ANCHOR BOLTS AT STRINGERS.
9. PERFORM ALL REPAIR WORK.
10. BEFORE RELEASING JACKS FROM TEMPORARY SUPPORTS, LOOSEN ALL STRINGER-TO-LIFTING BEAM ANCHOR BOLTS.
11. RELEASE JACKS.
12. DISASSEMBLE TOWERS FOR USE AT PIER 4.
13. REMOVE BEVELED SOLE PLATES FROM STRINGERS.

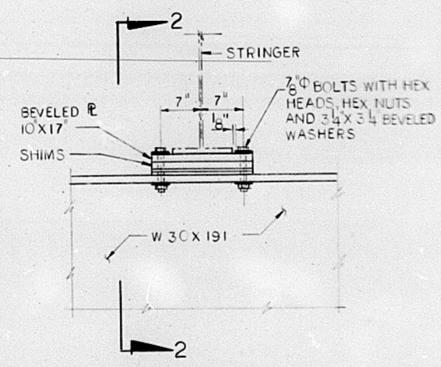
* COST OF EXCAVATION INCIDENTAL.



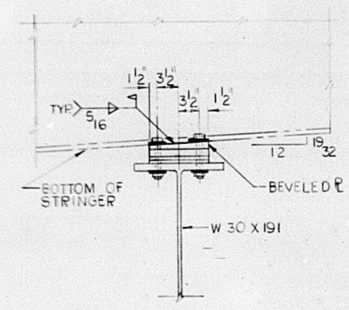
DETAIL A



SECTION 1-1



DETAIL B



SECTION 2-2

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS

TEMPORARY STRINGER SUPPORT
SPAN NO. 8

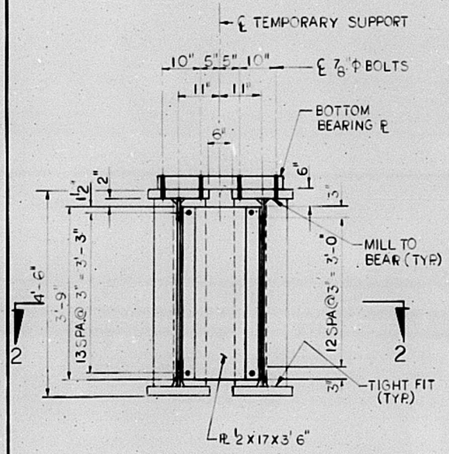
CEDAR STREET BRIDGE

F.A.I. ROUTE 669
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

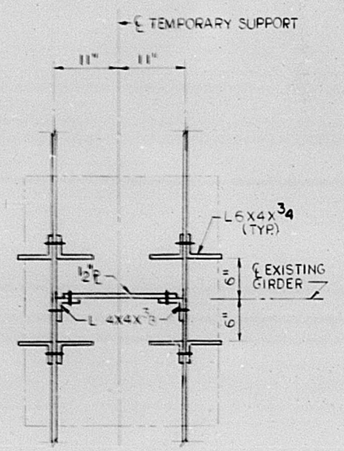
SECTION 103B-1-3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
688	1038-1-3	PEORIA TAZEWELL	20	13
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

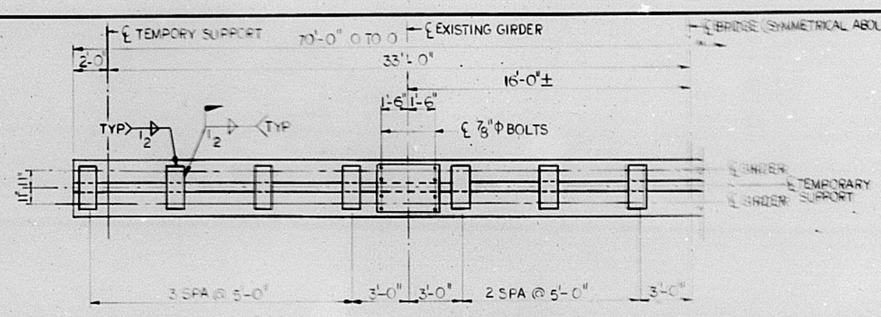
SHEET S8B OF 11



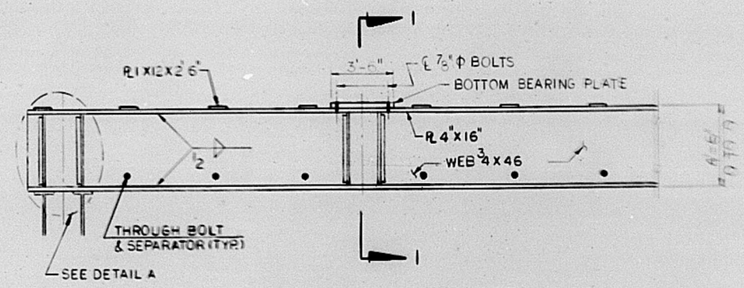
SECTION 1-1



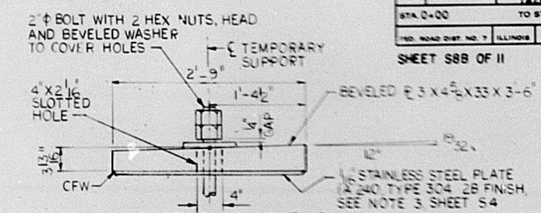
SECTION 2-2



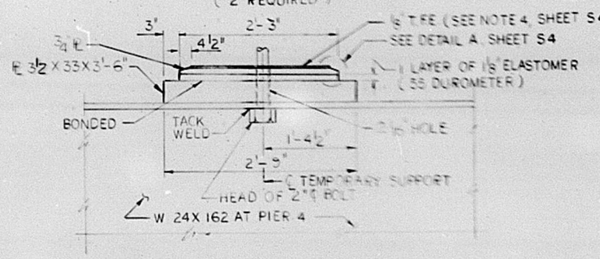
GIRDER PLAN



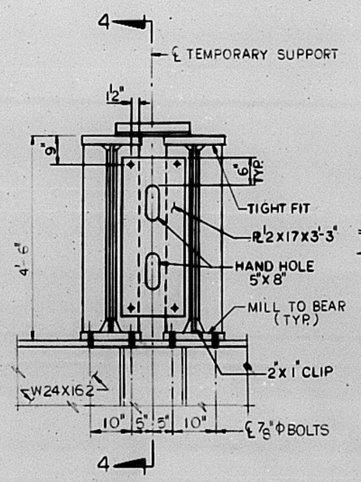
GIRDER, ELEVATION



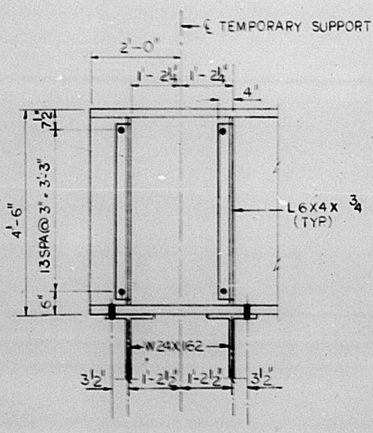
TOP BEARING ASSEMBLY
(2 REQUIRED)



BOTTOM BEARING ASSEMBLY
(2 REQUIRED)

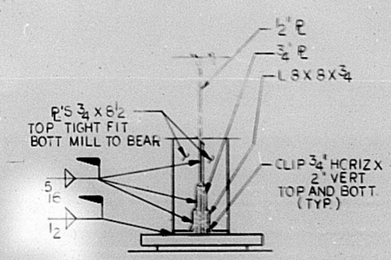


END VIEW

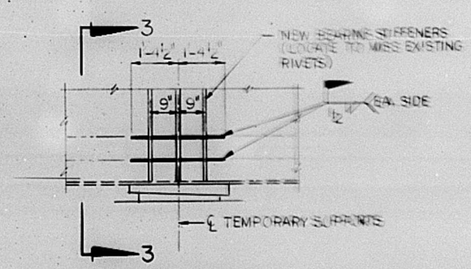


SECTION 4-4

DETAIL A



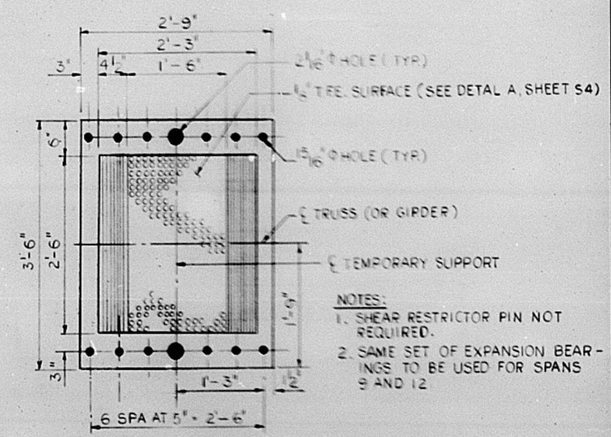
SECTION 3-3



SIDE VIEW

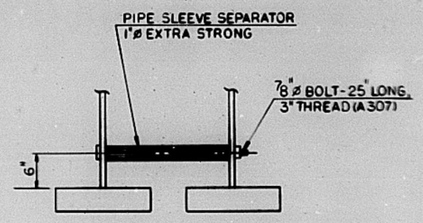
EXISTING GIRDER STRENGTHENING

PIER 1 - SPAN 9



NOTES:
1. SHEAR RESTRICTOR PIN NOT REQUIRED.
2. SAME SET OF EXPANSION BEARINGS TO BE USED FOR SPANS 9 AND 12

PLAN, BOTTOM BEARING ASSEMBLY



THROUGH BOLT DETAIL

ITEM	UNIT	QUANT.
ELASTOMERIC BEARING ASSEMBLY TYPE III	EACH	2

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS

TEMPORARY GIRDER SUPPORT
SPAN NO. 9

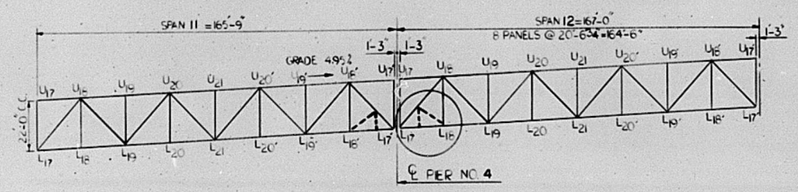
CEDAR STREET BRIDGE

F.A.I. ROUTE 688
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

SECTION 1038-1-3

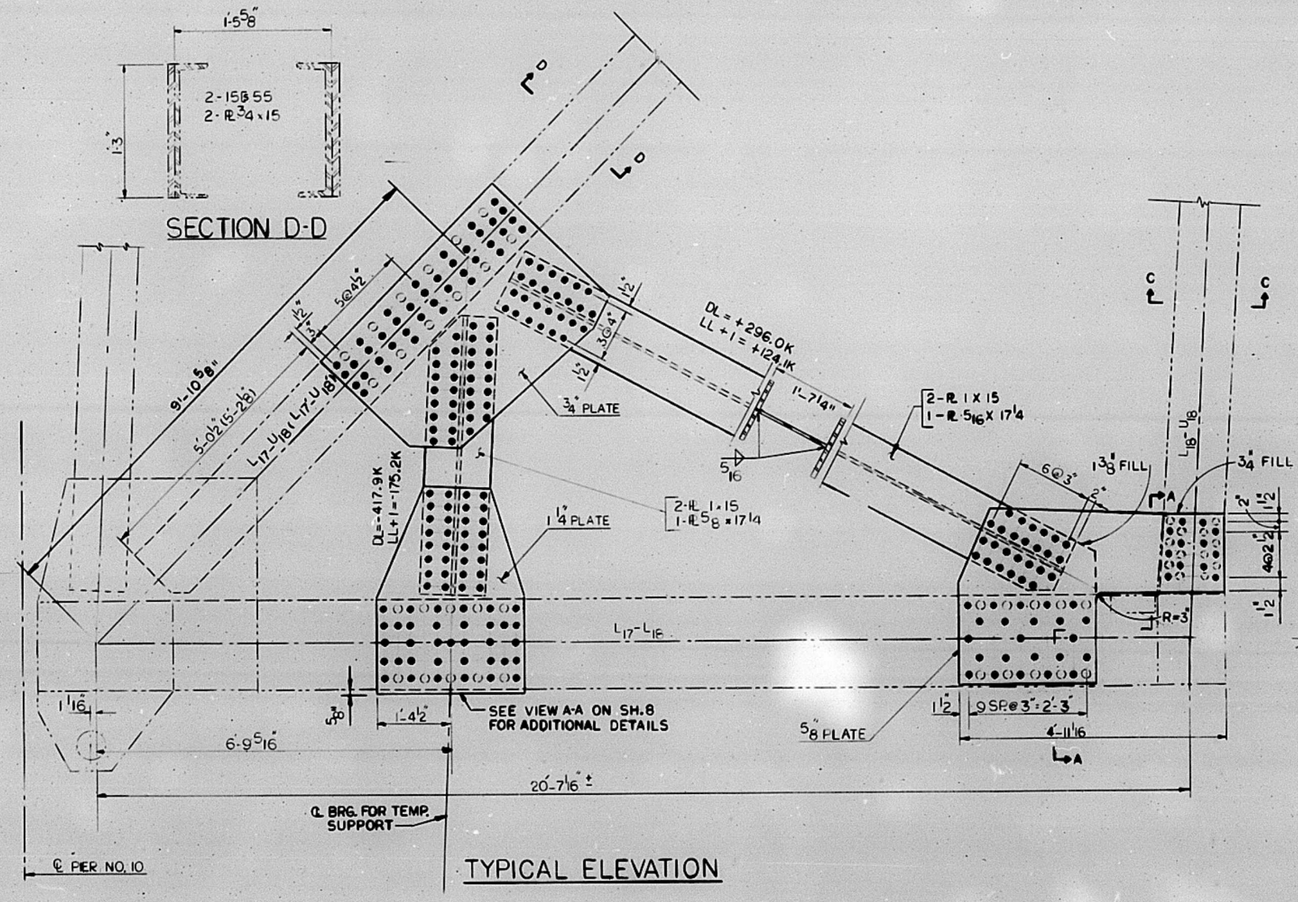
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
669	103B-1-3	PEORIA / TAZEWELL	20	14
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET S9 OF 11

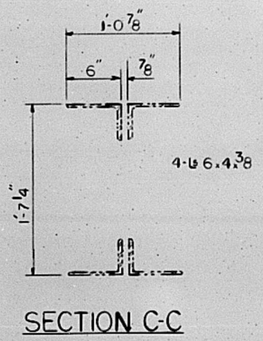


DIMENSION DIAGRAM

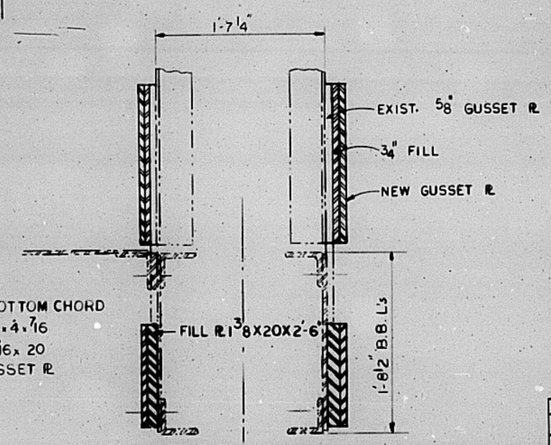
SECTION D-D



TYPICAL ELEVATION



SECTION C-C



SECTION A-A

LEGEND:

- • NEW HIGH STRENGTH BOLT
- ○ HOLE IN NEW PLATE TO CLEAR EXISTING RIVET HEAD
- — · · — EXISTING MATERIAL

NOTES:

- ALL BOLTS SHALL BE ⅞" DIA. HIGH STRENGTH BOLTS.
- HOLES FOR H S BOLTS SHALL BE 15/16" DIA.
- HOLES TO CLEAR EXISTING RIVET HEADS SHALL BE A MINIMUM OF 1/8" LARGER THAN THE RIVET HEAD.
- DIMENSIONS AND RIVET PATTERNS SHOWN ARE FROM SHOP DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE COMMENCING WORK.

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS

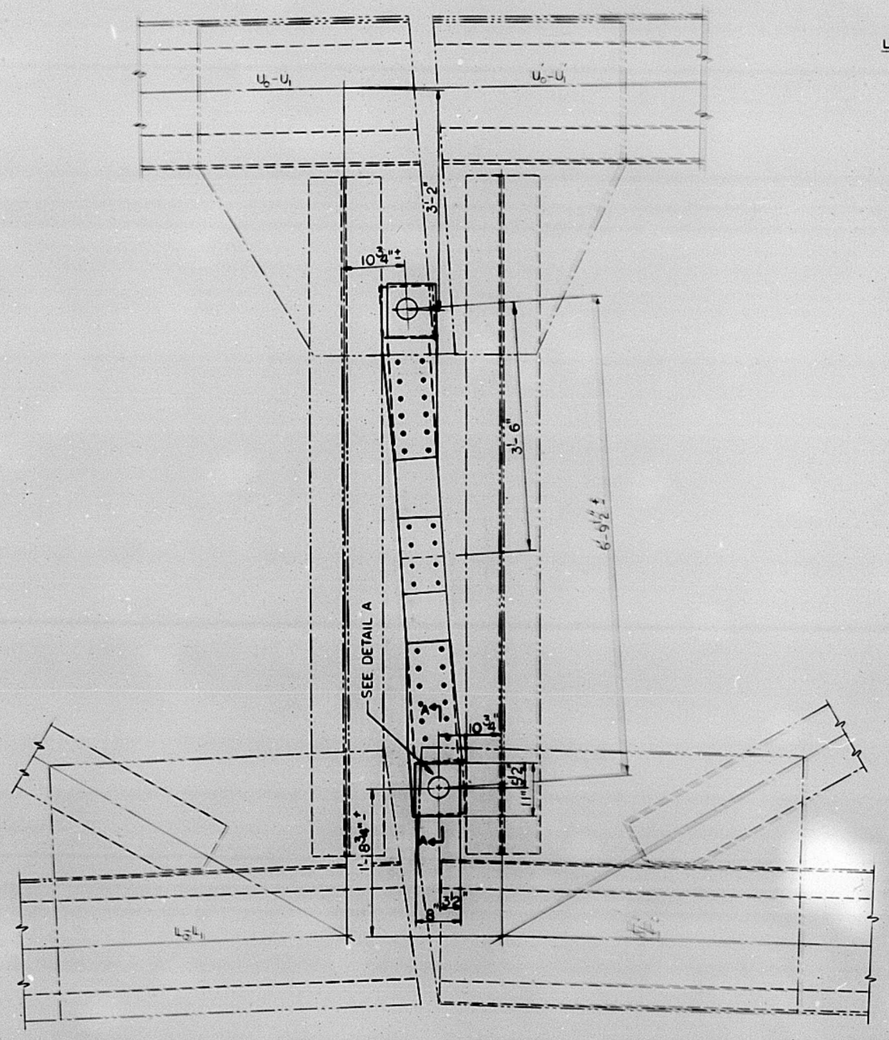
TRUSS STRENGTHENING
PIER 4

CEDAR STREET BRIDGE

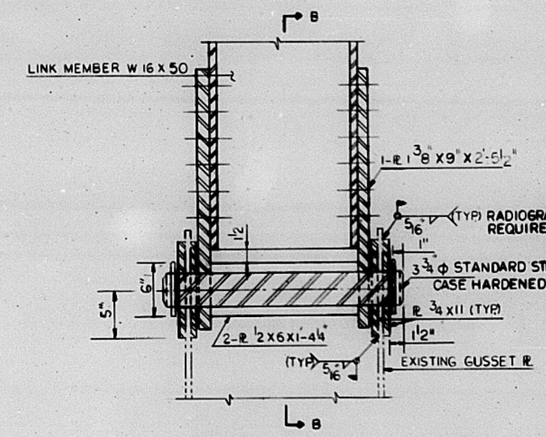
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
669	103B-1-3	PEORIA & TAZEWELL	20	15
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

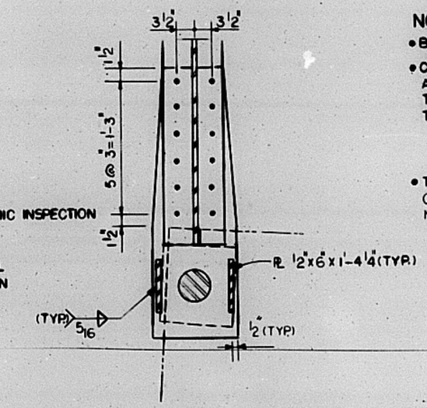
SHEET 9 OF 11



ELEVATION
CANTILEVER SPAN-FRONT END



SECTION A-A



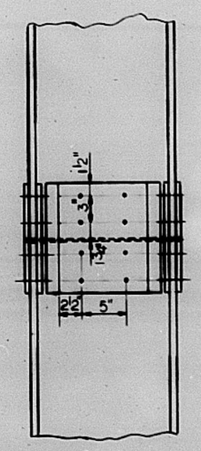
SECTION B-B

NOTES:

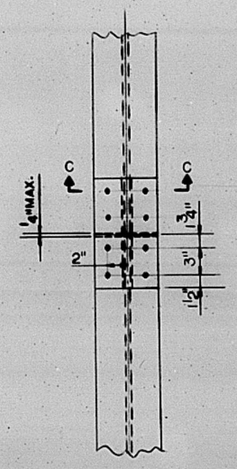
- BOLTS SHALL BE 7/8" Φ H.S. BOLTS. HOLES SHALL BE 15/16" Φ
- CONTRACTOR SHALL PROVIDE METHOD TO TEMPORARILY ALIGN HANGER UNTIL SPLICE HAS BEEN COMPLETED. THE METHOD TO BE USED SHALL BE PROVIDED AT THE TIME OF SHOP DRAWING SUBMITTAL.
- THE NEW WIDE FLANGE MEMBERS AND PLATES SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS, ZONE 2.

BILL OF MATERIAL

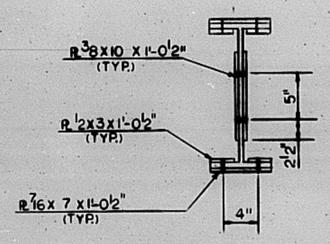
ITEM	UNIT	QUANT.
HINGE REPLACEMENT	L.SUM	1.
STRUCTURAL STEEL	POUND	2424.



SIDE ELEVATION

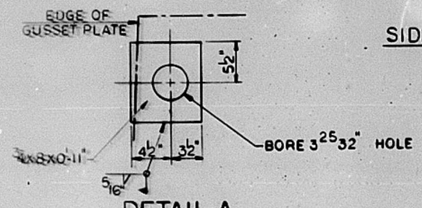


END ELEVATION



SECTION C-C

SPLICE DETAILS



DETAIL A

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

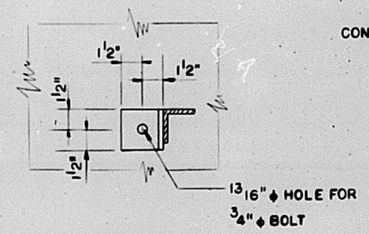
HINGE REPLACEMENT

CEDAR STREET BRIDGE

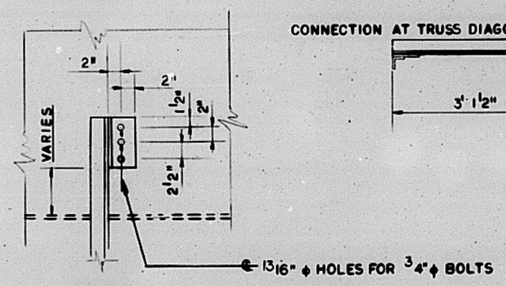
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
689	1038-1-3	PEORIA TAZEWELL	20	16
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

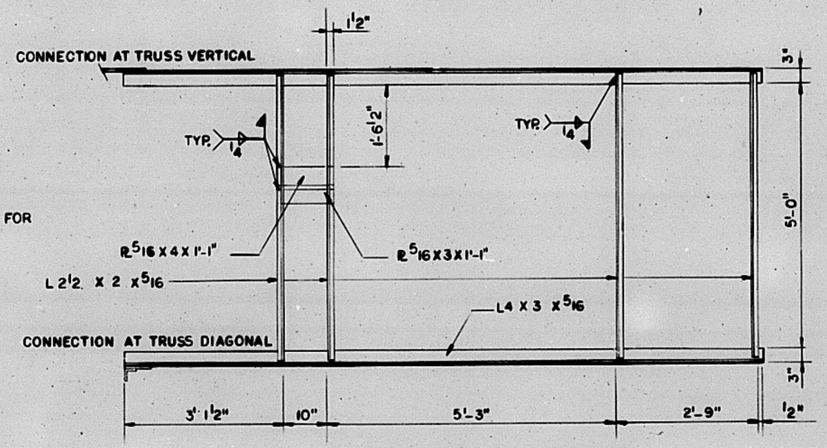
SHEET 5 OF 11



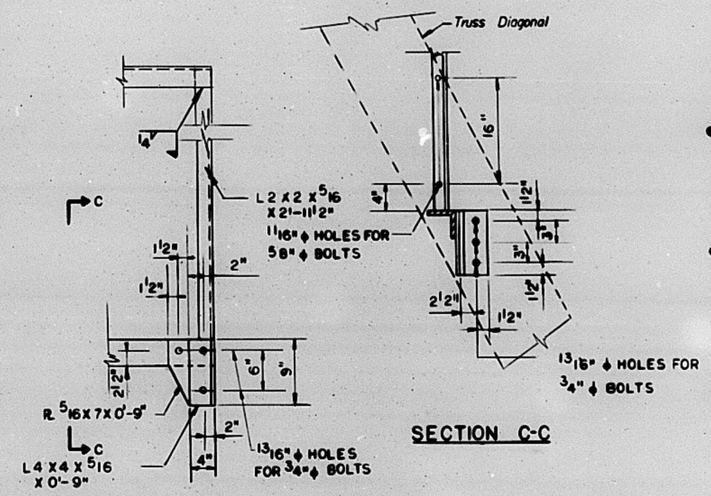
SECTION A-A
(NOT TO SCALE)



VIEW B-B



BOTTOM VIEW OF PLATFORM



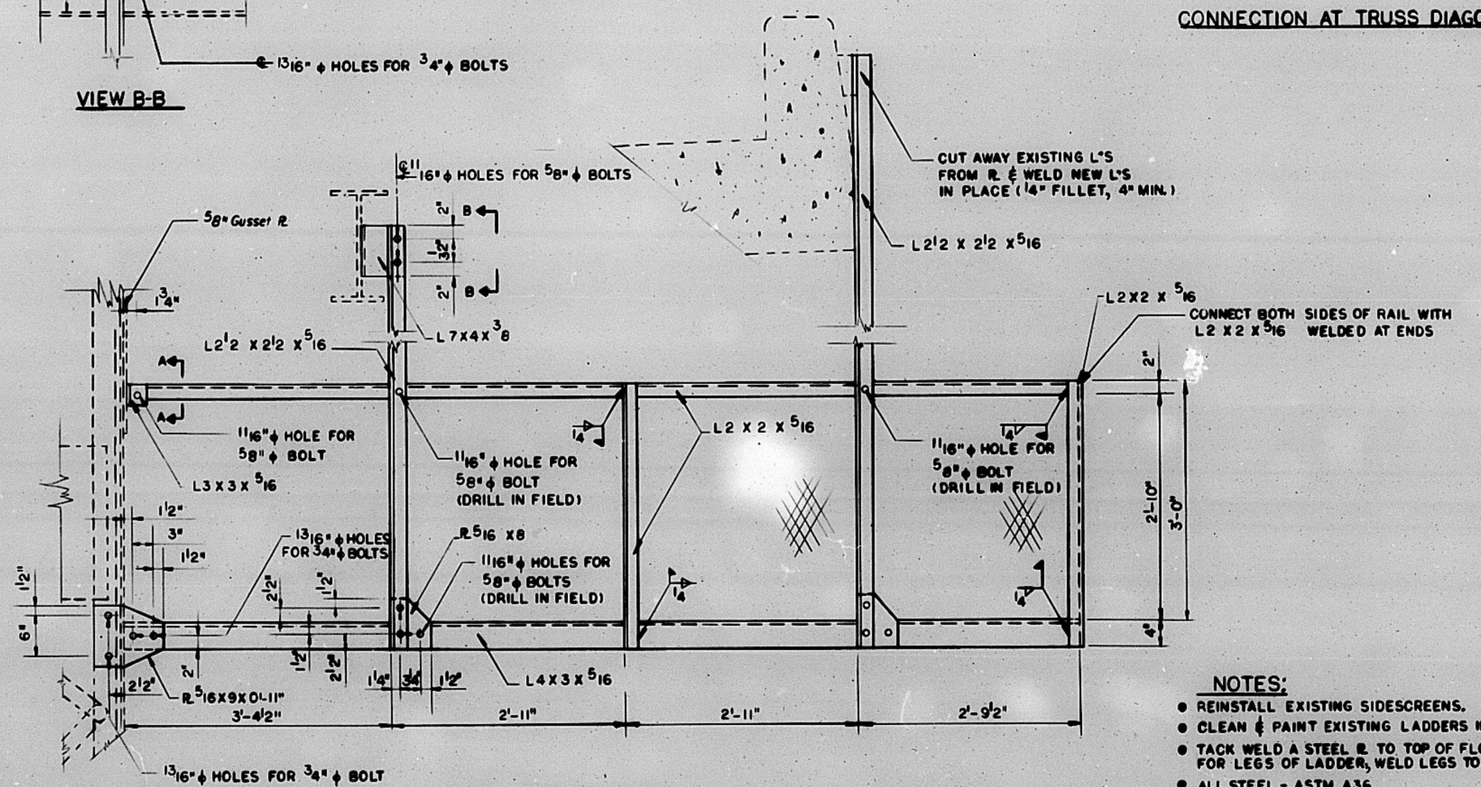
CONNECTION AT TRUSS DIAGONAL

SECTION C-C

FLOORING NOTES

- FLOORING - STEEL GRATING
  - (A) UNIFORM LOAD CAPACITY - 100 LB/SQ.FT.
  - (B) CONCENTRATED LOAD CAPACITY - 500 LB/FT.
  - (C) FINISH-GALVANIZED
  - (D) SPAN - 5' 4 7/8"
- ORDER PLATFORM IN TWO PANELS
  1 - 5' - 4 7/8" X 3' - 0 1/2"

  1 - 5' - 4 7/8" X 8' - 10" WITH 10" X 25 1/4" CUTOUT AT CORNER (25 1/4" DIMENSION ALONG SPAN LENGTH), CUTOUT FOR PIER 7N. ℄ 8 S. PLATFORMS OPPOSITE SIDE FROM CUTOUT FOR PIER 7 S. ℄ 8 N. PLATFORMS.
- FIELD TACK WELD 3RD BEARING TO SUPPORTS AT FOUR CORNERS OF PANEL.



TYPICAL SIDE ELEVATION

NOTES:

- REINSTALL EXISTING SIDESCREENS.
- CLEAN & PAINT EXISTING LADDERS IN PLACE.
- TACK WELD A STEEL R. TO TOP OF FLOOR GRATING FOR LEGS OF LADDER, WELD LEGS TO R.
- ALL STEEL - ASTM A36

BILL OF MATERIAL

ITEM	UNIT	QUANT.
STRUCTURAL STEEL	POUND	4931

REVISIONS	
NAME	DATE

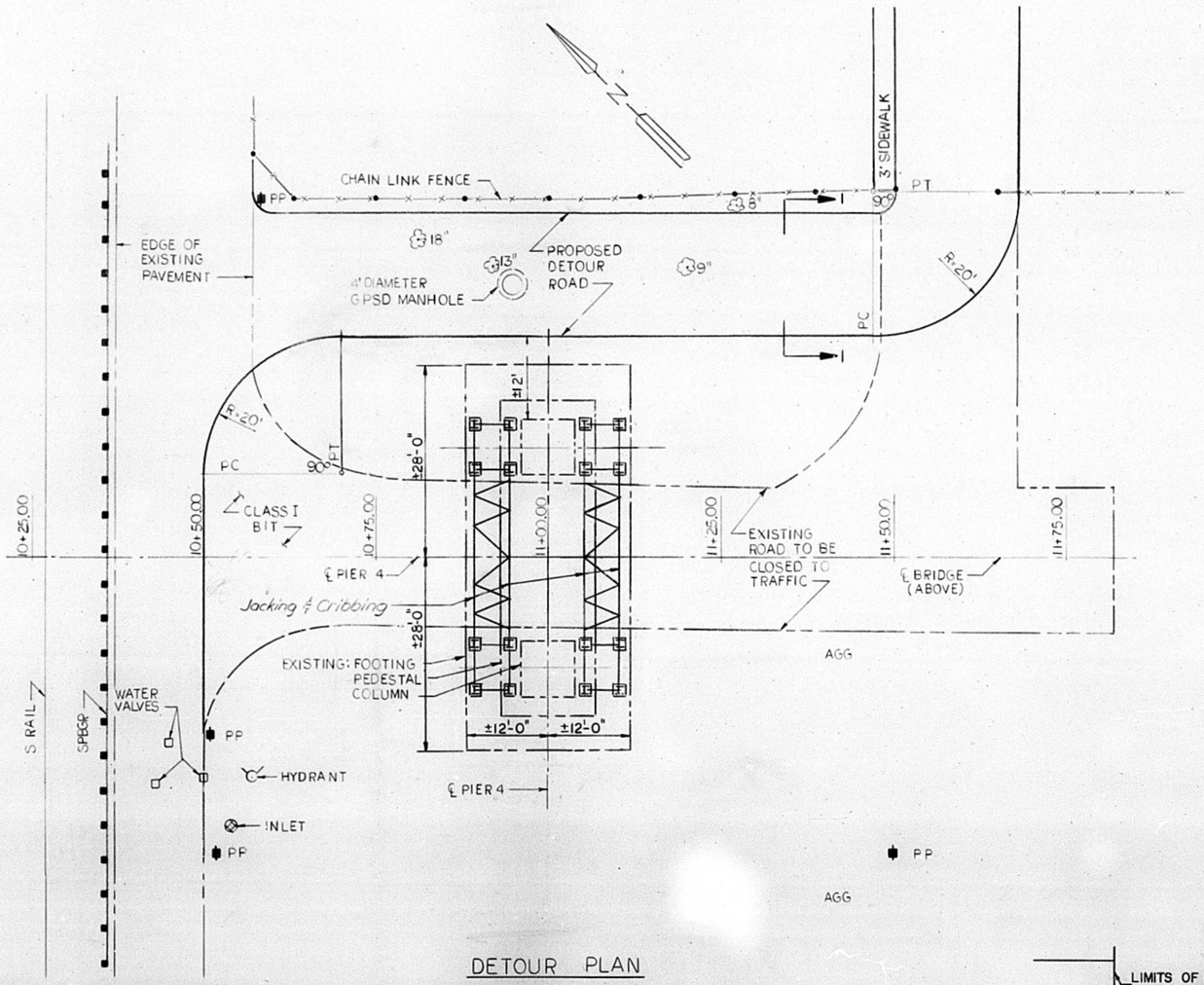
BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

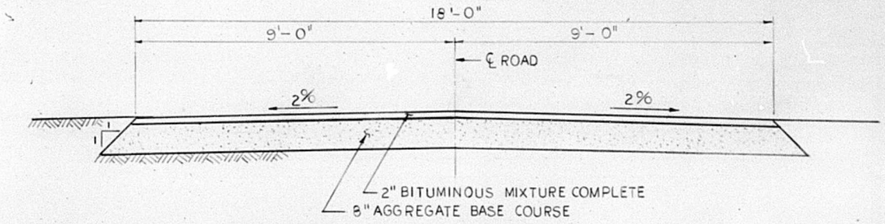
NAVIGATION LIGHT PLATFORMS

CEDAR STREET BRIDGE
SECTION 1038-1-3
F.A.I. ROUTE 689
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA TAZEWELL	20	17
STA. 0+00		TO STA. 25+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



DETOUR PLAN



SECTION 1-1

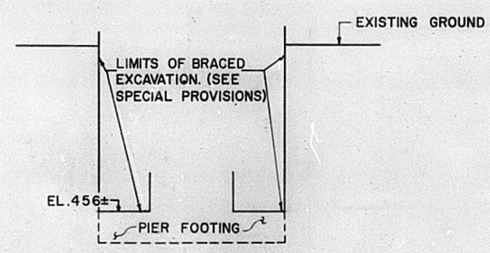
DETOUR BILL OF MATERIAL

CODE NO.	ITEM	UNIT	QUANTITY
201 001	TREE REMOVAL (6 TO 15 IN DIA)	IN. DIA.	22
201 002	TREE REMOVAL (OVER 15 IN DIA)	IN. DIA	18
301 001	AGGREGATE BASE COURSE, TYPE A	TON	74
405004	BITUMINOUS MIXTURE COMPLETE	TON	28 *

* INCLUDES SUFFICIENT SURFACING MATERIAL TO REPLACE EXISTING ROADWAY SURFACE.

NOTE:

1. THE CONTRACTOR SHALL SUBMIT DETAILED PLANS SHOWING THE PROPOSED BRACING SYSTEM FOR EXCAVATION AT PIER 4 TO THE ENGINEER FOR HIS APPROVAL PRIOR TO STARTING ANY WORK IN THE AREA.



EXCAVATION LIMITS
(AT PIER 4)

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS

LOCAL ENTRANCE DETOUR

CEDAR STREET BRIDGE

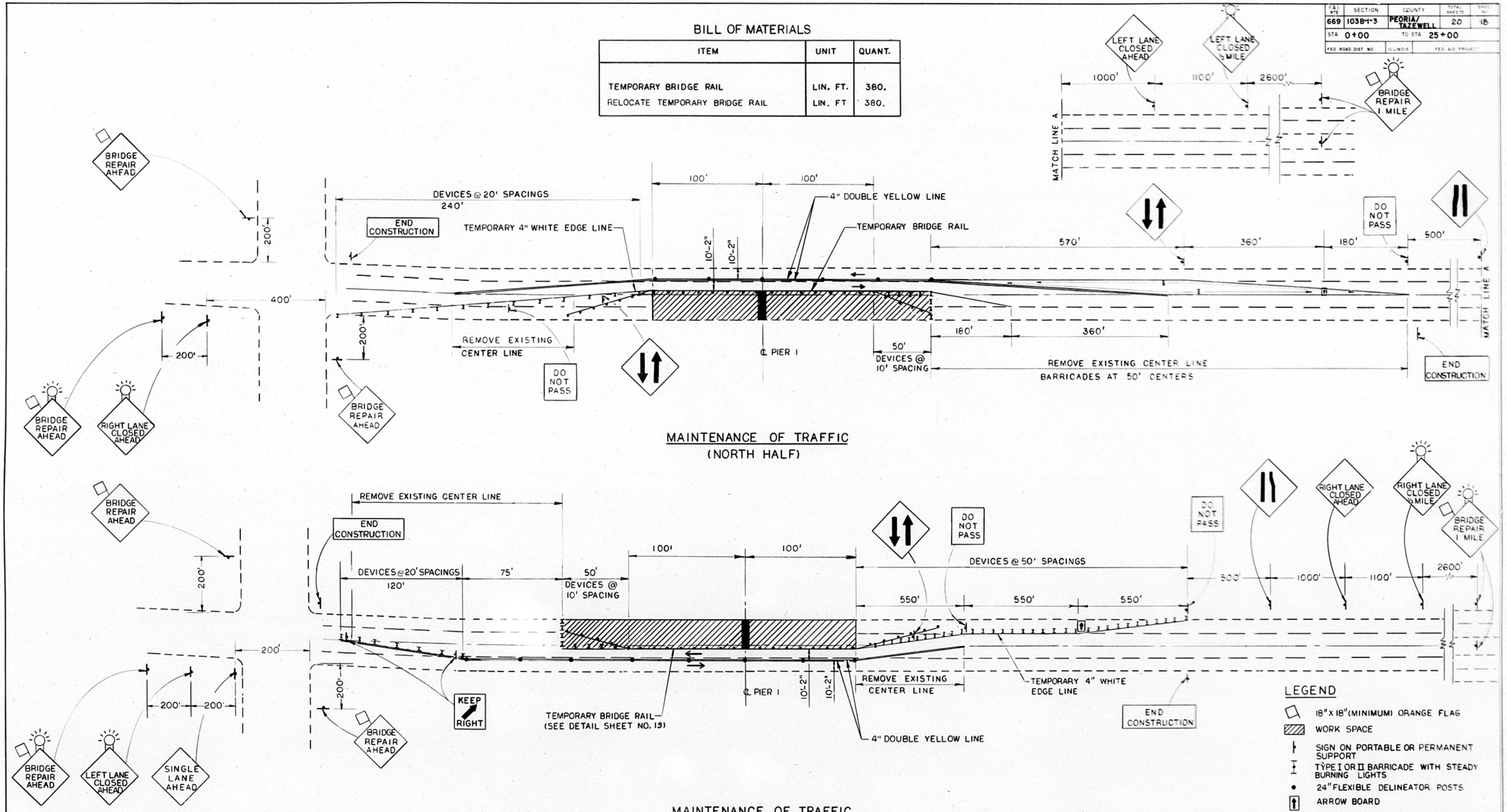
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

Rev. 6-15-82

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA/ TAZEWELL	20	18
STA 0+00		TO STA 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIALS

ITEM	UNIT	QUANT.
TEMPORARY BRIDGE RAIL	LIN. FT.	380.
RELOCATE TEMPORARY BRIDGE RAIL	LIN. FT	380.



LEGEND

- 18" X 18" (MINIMUM) ORANGE FLAG
- WORK SPACE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE I OR II BARRICADE WITH STEADY BURNING LIGHTS
- 24" FLEXIBLE DELINEATOR POSTS
- ARROW BOARD

NOTES:

STANDARD 2318 WILL APPLY EXCEPT AS INDICATED ON THIS PLAN.

SET FLEXIBLE DELINEATOR POSTS AT 50 FT. CENTERS.

SIGNS MOUNTED IN THE MEDIAN WILL BE NECESSARY WHEN MEDIAN WIDTH EQUALS 10 FT. OR MORE.

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS

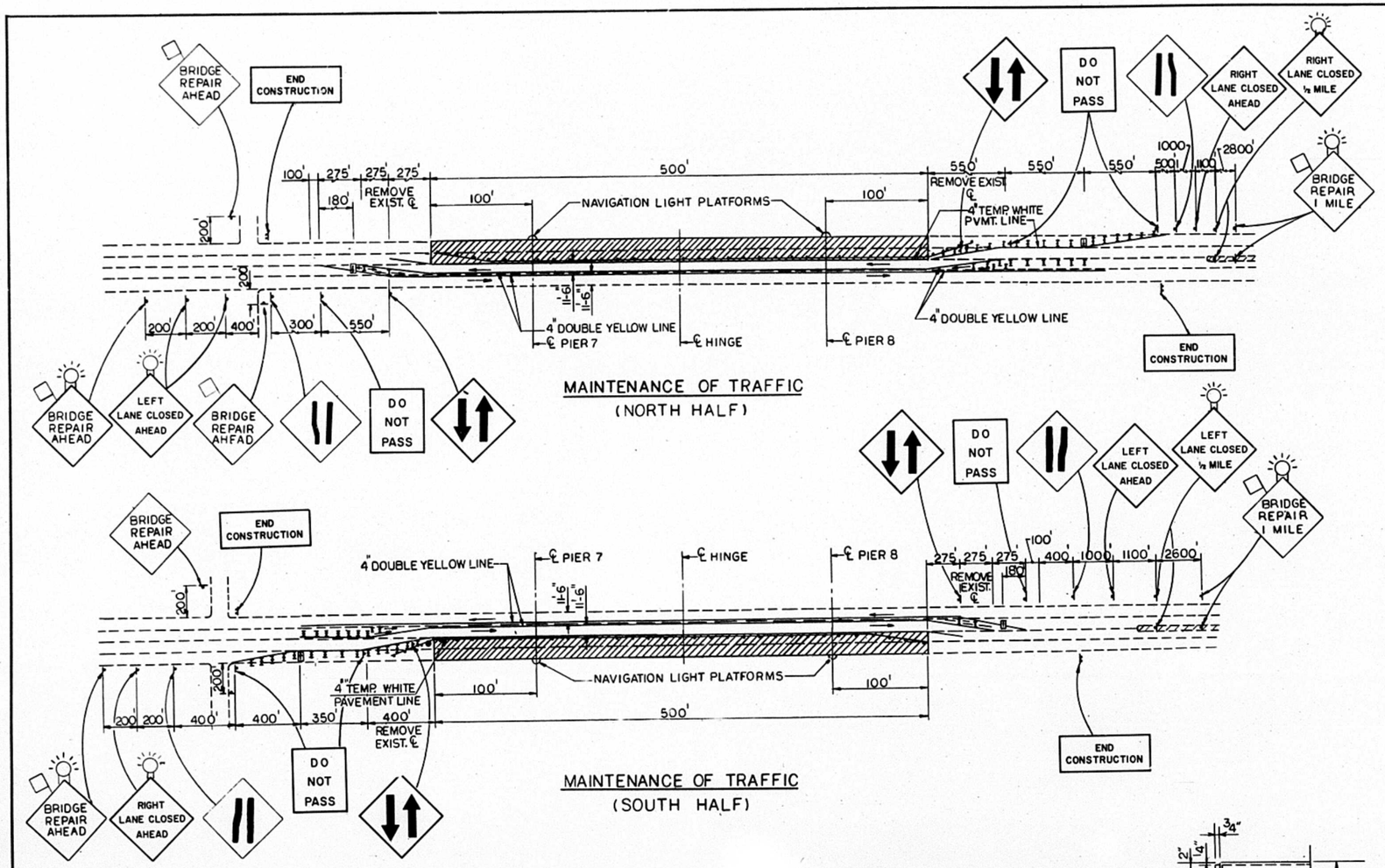
"TRAFFIC CONTROL PHASE II"

TRAFFIC CONTROL & PROTECTION
STANDARD 2318 SPECIAL

CEDAR STREET BRIDGE

F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
669	103B-1-3	PEORIA/ TAZEWELL	20	19
STA 0+00		TO STA 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MAINTENANCE OF TRAFFIC
(NORTH HALF)

MAINTENANCE OF TRAFFIC
(SOUTH HALF)

NOTE:
HIGH INTENSITY FLASHING LIGHTS AS SHOWN ON APPROACH SIGNS TO BE USED DURING HOURS OF DARKNESS

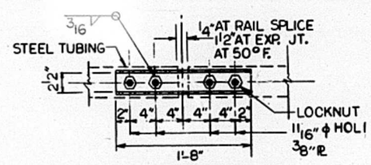
LEGEND

- WORK SPACE
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- TYPE I OR II BARRICADE WITH STEADY BURNING LIGHTS
- FLAGMAN
- ARROW BOARD
- 18"X18" (MINIMUM) ORANGE FLAG
- 24" FLEXIBLE DELINEATOR POSTS

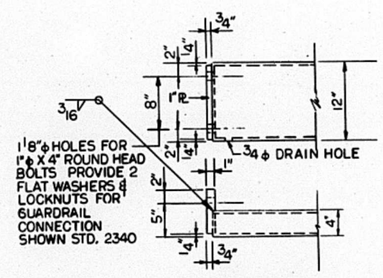
BILL OF MATERIALS

ITEM	UNIT	QUANT.
TEMPORARY BRIDGE RAIL	LIN. FT.	630
RELOCATE TEMPORARY BRIDGE RAIL	LIN. FT.	630

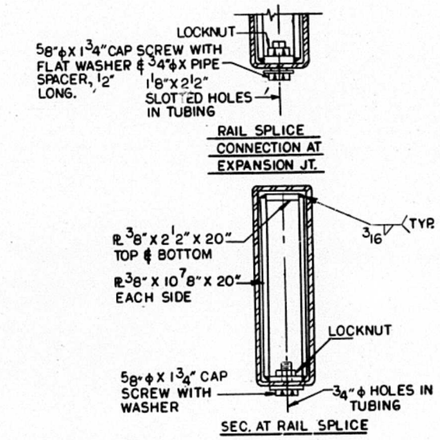
NOTES:
STANDARD 2318 WILL APPLY EXCEPT AS INDICATED ON THIS PLAN.
SET FLEXIBLE DELINEATOR POSTS AT 50 FT CENTERS. SIGNS MOUNTED IN THE MEDIAN WILL BE NECESSARY WHEN MEDIAN WIDTH EQUALS 10 FT. OR MORE.



PLAN BOTT. SPLICE PL. TYPICAL

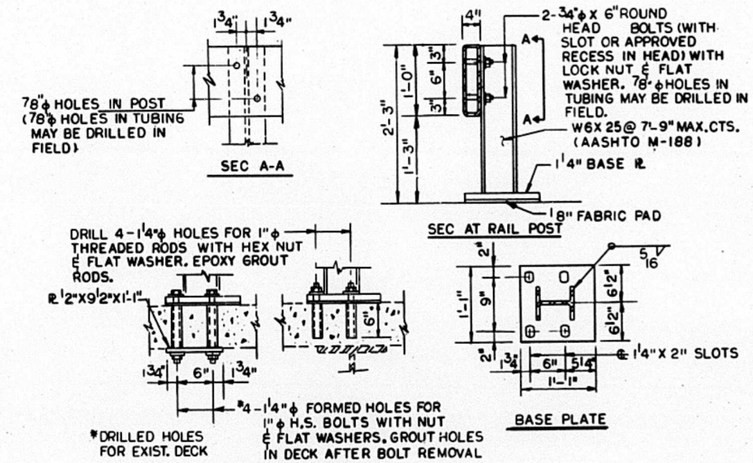


END OF RAIL DETAILS



NOTES FOR TEMPORARY BRIDGE RAIL:

- HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A-500 GRADE B STRUCTURAL STEEL TUBING.
- ALL OTHER STEEL SHAPES & PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-183, EXCEPT POSTS SHALL CONFORM TO AASHTO M-223 GRADE 50.
- BOLTS, CAP SCREWS & NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A-307 EXCEPT FOR HIGH STRENGTH BOLTS, THREADED RODS, NUTS & WASHERS NOTED WHICH SHALL CONFORM TO AASHTO M-164.
- THE BRIDGE RAIL SHALL RECEIVE ONE SHOP COAT OF A STEEL PRIME PAINT.
- THE 1" ϕ HIGH STRENGTH BOLTS OR THREADED RODS USED TO CONNECT THE RAILPOSTS SHALL BE TIGHTENED IN ACCORDANCE WITH ARTICLE 502.04(g)(3) OF THE STANDARD SPECIFICATIONS.
- SEE SPECIAL PROVISIONS FOR TEMPORARY BRIDGE RAIL.



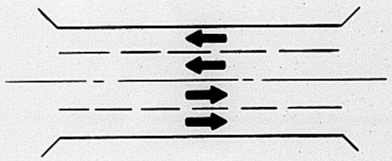
TEMPORARY BRIDGE RAIL DETAILS

REVISIONS	
NAME	DATE

BYRD, TALLAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
ROSELLE, IL.

ILLINOIS DIVISION OF HIGHWAYS
TRAFFIC CONTROL
"PHASE IV"
TRAFFIC CONTROL & PROTECTION
STANDARD 2318 SPECIAL
CEDAR STREET BRIDGE
F.A.I. ROUTE 669 SECTION 103B-1-3
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00

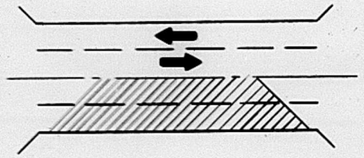
F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-3	PEORIA TAZEWELL	20	20
STA 0+00		TO STA 25+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PHASE I

PIER 1

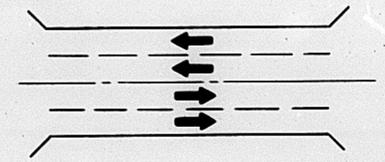
1. DRIVE TOWER SUPPORT PILES, CONSTRUCT TEMPORARY FOOTINGS, ERECT TEMPORARY SUPPORTS
2. MODIFY GIRDERS AND STRINGERS AT JACKING LOCATIONS AS REQUIRED.
3. TRANSFER LOADS FROM PIER TO TEMPORARY SUPPORTS BY JACKING.
4. REMOVE PIER TO TOP OF FOOTING, AND REMOVE ALL TEMPORARY REPAIR WORK.
5. REMOVE GIRDER BEARINGS.
6. REMOVE DETERIORATED CONCRETE IN TOP OF FOOTING ABOVE GROUND, AND PREPARE FOR PATCHING.
7. DRILL HOLES IN TOP OF FOOTING AND GROUT NEW DOWELS IN PLACE.
8. PLACE REINFORCEMENT AND FORM NEW PIER TO CONSTRUCTION JOINT.
9. PLACE CONCRETE TO CONSTRUCTION JOINT AT STEP IN CAP.
10. REMOVE FORMS AND FINISH CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS.



PHASE II

PIER 1

1. USING TRAFFIC CONTROLS AS SHOWN ON "TRAFFIC CONTROL - PHASE II" DRAWING, PROVIDE 2 TEN FOOT TRAFFIC LANES ON ONE SIDE OF LONGITUDINAL DECK JOINTS.
2. REMOVE DECK CONCRETE AROUND EXPANSION DAM FROM OUTSIDE OF PARAPET TO LONGITUDINAL JOINT.
3. REMOVE EXPANSION DAM AND SUPPORTS, SIDEWALK PLATE AND ANGLES, AND END DIAPHRAGMS.
4. REMOVE STRINGER EXTENSION FROM SIDEWALK BRACKET AND CUT BACK ALL SPAN 9 STRINGERS. REPAIR STRINGERS AS DIRECTED BY THE ENGINEER.
5. CUT OUT SPAN 8 STRINGERS (LOCATED BETWEEN GIRDERS) AND WELD NEW BOTTOM FLANGE PLATE. PERFORM ADDITIONAL REPAIRS AS DIRECTED BY THE ENGINEER.
6. PLACE REINFORCEMENT AND FORMS FOR UPPER CAP FROM CONSTRUCTION JOINT AT STEP IN CAP TO STRINGER BEARING SEAT.
7. ASSEMBLE BEARINGS AND SECURE IN POSITION ON STRINGERS.
8. PLACE CONCRETE UP TO CONSTRUCTION JOINT. FREE BEARINGS AFTER CONCRETE HAS SET. (THE CONTRACTOR HAS THE OPTION OF PLACING THE CONCRETE FOR THE UPPER CAP WITHOUT A CONSTRUCTION JOINT.)
9. INSTALL NEW CONNECTION ANGLES AND END DIAPHRAGMS.
10. INSTALL JOINT SUPPORTS OVER SIDEWALK BRACKET.
11. REPLACE DECK REINFORCEMENT, FORM AND PLACE NEW DECK, SIDEWALK AND PARAPET.
12. REMOVE PIER AND DECK FORMS AND FINISH CONCRETE IN ACCORDANCE WITH SPECIFICATIONS.
13. INSTALL NEOPRENE DECK JOINT.
14. AFTER A CURING PERIOD APPROVED BY THE ENGINEER, REMOVE ALL TRAFFIC CONTROL DEVICES, SEAL ALL TEMPORARY BRIDGERAIL CONNECTION HOLES AND TRANSFER TRAFFIC TO OPPOSITE SIDE OF LONGITUDINAL DECK JOINT. PROVIDE 2 TEN FOOT TRAFFIC LANES, USING TRAFFIC CONTROL AS SHOWN ON "TRAFFIC CONTROL PHASE II" DRAWING.
15. FOLLOW THE SAME PROCEDURE FOR ITEMS 2 THROUGH 13, PHASE II FOR THIS SIDE OF THE BRIDGE.
16. AFTER A CURING PERIOD, APPROVED BY THE ENGINEER, REMOVE ALL TRAFFIC CONTROL DEVICES AND SEAL ALL TEMPORARY BRIDGERAIL CONNECTION HOLES.



PHASE III

PIER 1

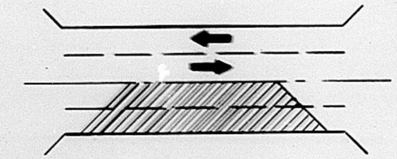
1. FORM AND PATCH TOP OF FOOTING.
2. AFTER PIER CONCRETE HAS CURED AT LEAST 28 DAYS, OR AS DIRECTED BY THE ENGINEER, PLACE NEW BEARINGS AND TRANSFER LOADS TO NEW PIER.
3. REMOVE TEMPORARY SUPPORTS.
4. CLEAN AND PAINT ALL NEW STEEL, AND ALL EXISTING STEEL, WITHIN A DISTANCE OF 5' BEYOND ANY WORK AREAS.
5. REMOVE FOOTING FORMS AND FINISH PATCHED AREAS.
6. MOVE TEMPORARY SUPPORTS AS REQUIRED TO PIER 4 FOR REASSEMBLY.
7. REMOVE TEMPORARY FOOTING CONCRETE, AND CUT OFF TOPS OF PILES ONE FOOT BELOW EXISTING GROUND.

PIER 4

8. RELOCATE ACCESS ROAD AND UTILITIES OUTSIDE OF CONSTRUCTION AREA.
9. EXCAVATE TO TOP OF FOOTING, DRILL AND GROUT ANCHOR BOLTS AND ERECT TEMPORARY SUPPORTS.
10. MODIFY TRUSSES AT JACKING LOCATIONS.
11. TRANSFER LOADS FROM PIERS TO TEMPORARY SUPPORTS BY JACKING.
12. REMOVE PIER TO TOP OF FOOTING, AND REMOVE ALL TEMPORARY REPAIR WORK.
13. CLEAN AND REPAIR THE BEARINGS.
14. REMOVE DETERIORATED CONCRETE IN TOP OF FOOTING ABOVE GROUND, AND PREPARE FOR PATCHING.
15. DRILL HOLES IN TOP OF FOOTING AND GROUT NEW DOWELS IN PLACE.
16. PLACE REINFORCEMENT AND FORM NEW PIER.
17. PLACE CONCRETE FOR NEW PIER.
18. REMOVE FORMS. FINISH CONCRETE.
19. FORM AND PATCH TOP OF FOOTING.
20. AFTER PIER CONCRETE HAS CURED AT LEAST 28 DAYS, OR AS DIRECTED BY THE ENGINEER, PLACE NEW BEARINGS AND TRANSFER LOADS TO NEW PIER.
21. REMOVE TEMPORARY SUPPORTS.
22. CLEAN AND PAINT TRUSSES AND BRACING IN AN AREA EXTENDING APPROXIMATELY 5' FROM THE BEARINGS AND FROM THOSE AREAS MODIFIED FOR JACKING.
23. REMOVE FOOTING FORMS AND FINISH PATCHED AREAS.
24. BACKFILL FOUNDATION AND RETURN GROUND TO ORIGINAL CONTOURS.
25. RETURN ACCESS ROAD AND UTILITIES TO ORIGINAL LOCATIONS.

N. ABUTMENT

26. EXCAVATE AS NECESSARY, CONSTRUCT TEMPORARY SUPPORTS FOR PARAPET AND SIDEWALK STRINGER, AND TRANSFER LOADS TO TEMPORARY SUPPORTS.
27. REMOVE COLUMN TO SOUND CONCRETE, DRILL AND GROUT NEW DOWELS IF NECESSARY, AND PREPARE PATCH AREAS.
28. INSPECT ANCHOR BOLTS AND BEARING PLATES. REPAIR OR REPLACE AS DIRECTED BY THE ENGINEER, REMOVING PARAPET FOR ACCESS AS REQUIRED.
29. PLACE REINFORCEMENT, FORM NEW COLUMN AND PLACE CONCRETE TO BEARING PLATES, FORM AND PLACE PATCHING IN ABUTMENT AND PARAPET.
30. REMOVE FORMS AND FINISH CONCRETE IN ACCORDANCE WITH THE SPECIFICATIONS.
31. CURE COLUMN CONCRETE AT LEAST 28 DAYS OR AS APPROVED BY THE ENGINEER, AND TRANSFER LOADS TO NEW COLUMN.
32. REMOVE TEMPORARY SUPPORTS, BACKFILL AND RETURN GROUND TO ORIGINAL CONTOURS.



PHASE IV

HINGE

1. USING TRAFFIC CONTROLS AS SHOWN ON "TRAFFIC CONTROL PHASE IV" DRAWING, PROVIDE FOR 2 WAY TRAFFIC AS SHOWN.
2. CONSTRUCT WORK PLATFORM TO PROVIDE ACCESS TO HINGE AREA.
3. REMOVE HINGE ASSEMBLY ON ONE SIDE.
4. CLEAN GUSSET PLATE ADJACENT TO PIN AND FIELD WELD PIN PLATES TO GUSSET PLATE.
5. INSTALL TOP AND BOTTOM SECTIONS OF ASSEMBLY.
6. STOP TRAFFIC ON STRUCTURE.
7. ALIGN SECTIONS AND BOLT SPLICES TOGETHER.
8. OPEN STRUCTURE TO TRAFFIC.
9. CLEAN AND PAINT ALL EXISTING STEEL WITHIN 10' OF TRUSS ENDS.
10. REPEAT STEPS 1-9 ON OTHER SIDE OF BRIDGE.

NAVIGATION LIGHT MAINTENANCE PLATFORMS

1. REMOVE BOTH PLATFORMS ON ONE SIDE OF BRIDGE.
2. FIT AND INSTALL NEW PLATFORMS.
3. MODIFY AS NECESSARY AND REATTACH LADDER AND SCREENS TO PLATFORMS.
4. CLEAN AND PAINT ALL NEW AND EXISTING STEEL IN PLATFORMS. INCLUDING ALL EXISTING STEEL WITHIN 1' OF ALL CONNECTION POINTS.
5. REMOVE TRAFFIC CONTROL TO OPPOSITE SIDE OF BRIDGE IN CONFORMANCE WITH "TRAFFIC CONTROL - PHASE IV" DRAWING.
6. FOLLOW THE SAME PROCEDURE FOR ITEMS 2 THROUGH 14, PHASE IV AND REMOVE ALL TRAFFIC CONTROL DEVICES.

REVISIONS	
NAME	DATE

BYRD, TALLIAMY, MACDONALD & LEWIS
CONSULTING ENGINEERS
A DIVISION OF WILBUR SMITH & ASSOCIATES
PEORIA, IL.

ILLINOIS DIVISION OF HIGHWAYS

PHASING PLANS

CEDAR STREET BRIDGE

SECTION 103B-1-3

F.A.I. ROUTE 669
PEORIA AND TAZEWELL COUNTIES
STATIONS 0+00 TO 25+00