

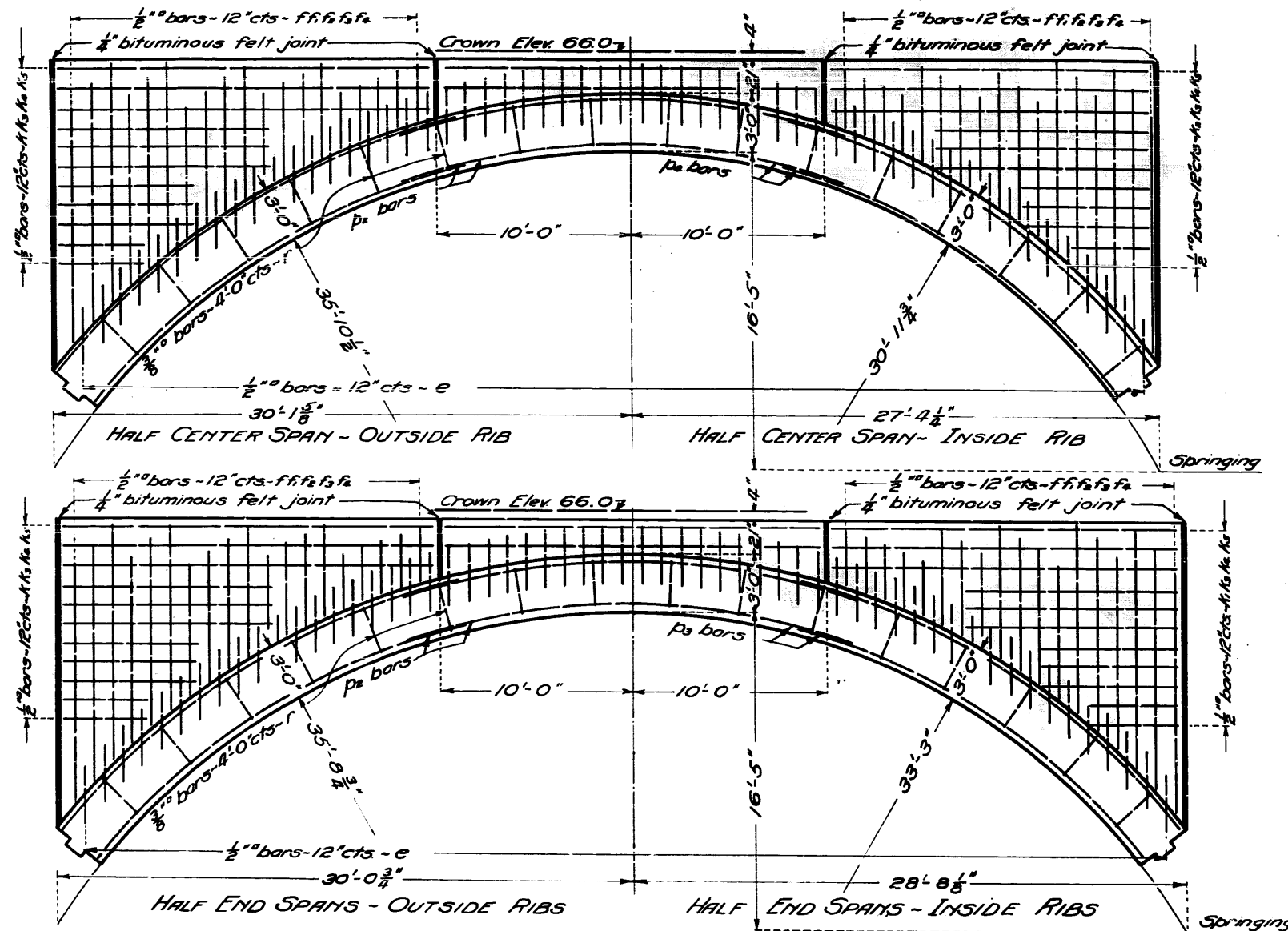




STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
42	COOK	112	16	12

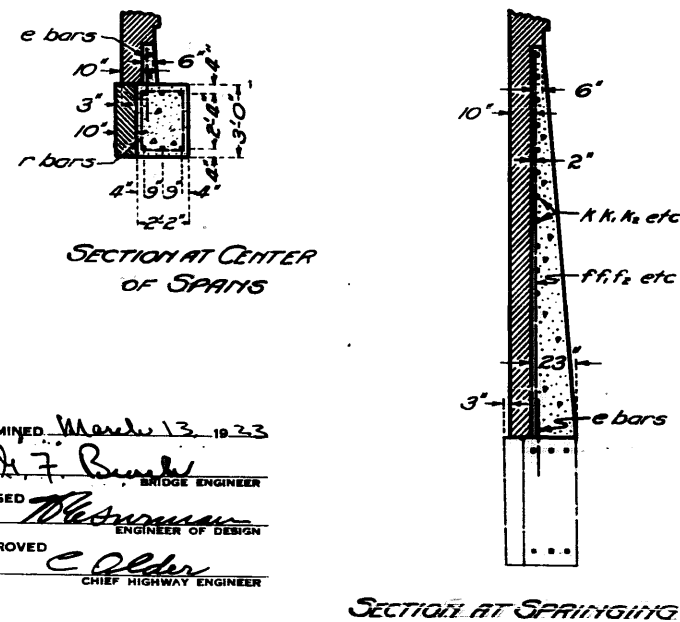
SHEET NO. 2  
5 SHEETS



Dimensions for Arch Spans & Radii are taken at outside of stone facing Class A concrete to be used thruout. Proportions 1:2 1/2:4

TOTAL BILL OF MATERIAL

SUPERSTRUCTURE		
Class A Concrete	Cu. Yds.	413.5
Reinforcing Steel	Lbs.	130310
Cast Iron Rockers	Lbs.	3874
Steel Plates	Lbs.	1106
Expansion Devices	Lbs.	1540
ARCHES & SPANDREL WALLS		
Class A Concrete	Cu. Yds.	165.8
Reinforcing Steel	Lbs.	8860
ABUTMENTS		
Class A Concrete	Cu. Yds.	329.7
Reinforcing Steel	Lbs.	23770
PIERS		
Class A Concrete	Cu. Yds.	513.4
Reinforcing Steel	Lbs.	35370
TOTALS		
Class A Concrete	Cu. Yds.	1422.4
Reinforcing Steel	Lbs.	198310
Cast Iron Rockers	Lbs.	3874
Steel Plates	Lbs.	1106
Squared Stone Masonry	Cu. Yds.	337.9
Switch Boxes		2
Pull Boxes		6
1" Pipe Conduit	Lin. Ft.	500
Expansion Devices	Lbs.	1540
6" Field Tile	Lin. Ft.	150



BILL OF MATERIAL  
SIX ARCHES & SPANDREL WALLS

Bars	No	Size	Length
e	340	1/2"	3'-0"
f	58	1/2"	3'-0"
g	44	1/2"	5'-0"
h	46	1/2"	7'-0"
i	36	1/2"	10'-0"
j	36	1/2"	12'-6"
k	30	1/2"	19'-0"
l	12	1/2"	17'-6"
m	6	1/2"	16'-6"
n	36	1/2"	11'-0"
o	36	1/2"	7'-0"
p	24	1/2"	4'-6"
q	54	3/4"	24'-0"
r	36	3/4"	23'-6"
s	18	3/4"	22'-6"
t	96	3/8"	9'-6"

Reinforcing Steel Lbs. 8860  
Concrete Cu. Yds. 165.8

STANDARD	COMPUTED - E.D. Dryfoose
	CHECKED - B.A. Mackenzie
	DRAWN - E.D. Dryfoose
	CHECKED - B.A. Mackenzie
SPECIAL	ASSEMBLED -
	CHECKED -

EXAMINED March 13, 1923  
H. F. Bunker  
BRIDGE ENGINEER  
PASSED  
ENGINEER OF DESIGN  
APPROVED  
C. Older  
CHIEF HIGHWAY ENGINEER

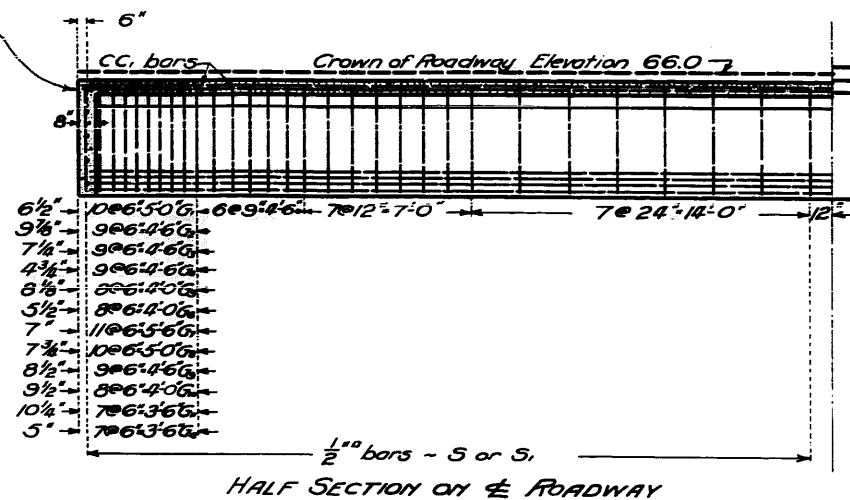
STONE BRIDGE  
STATION 102+91.2  
STATE BOND ISSUE - ROUTE 42  
SECTION 112 - COOK COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROAD ISSUE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
42	COOK	112	16	13

SHEET NO. 3  
5 SHEETS

Imbed 4x6x30" Header to provide seating for approach pavement, place level and on edge



HALF SECTION ON ROADWAY

Outer Edge of Sidewalk 3" above Crown

HALF ELEVATION

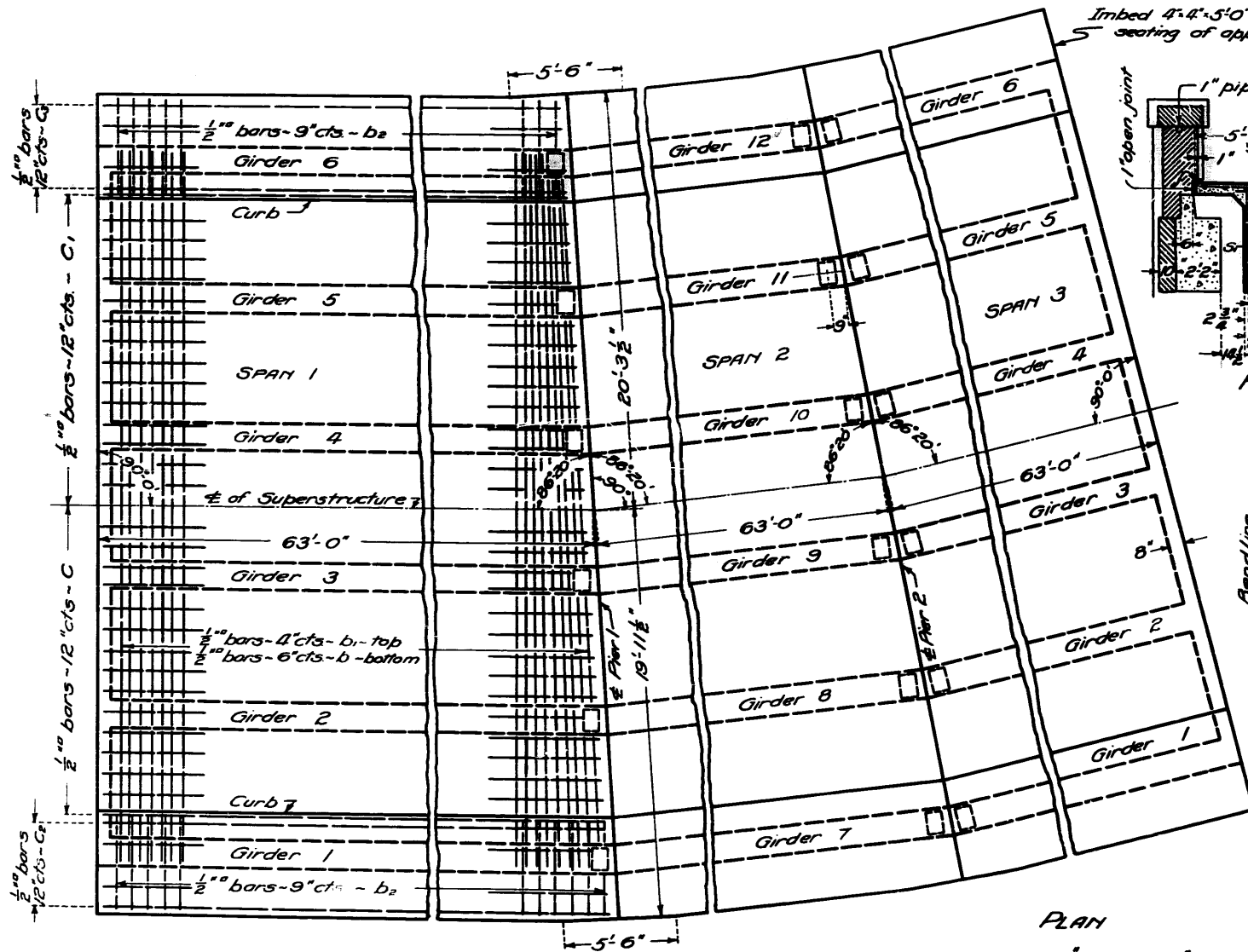
1/2" bituminous felt joint  
Space around rockers to be filled with asphalt  
1/2" mortar bed

- Girder 1 - 14 O bars
- Girder 2 - 14 O<sub>1</sub>
- Girder 3 - 14 O<sub>1</sub>
- Girder 4 - 14 O<sub>2</sub>
- Girder 5 - 14 O<sub>2</sub>
- Girder 6 - 14 O<sub>3</sub>
- Girder 7 - 14 O<sub>3</sub>
- Girder 8 - 14 O<sub>1</sub>
- Girder 9 - 14 O<sub>1</sub>
- Girder 10 - 14 O<sub>3</sub>
- Girder 11 - 14 O<sub>3</sub>
- Girder 12 - 14 O<sub>1</sub>

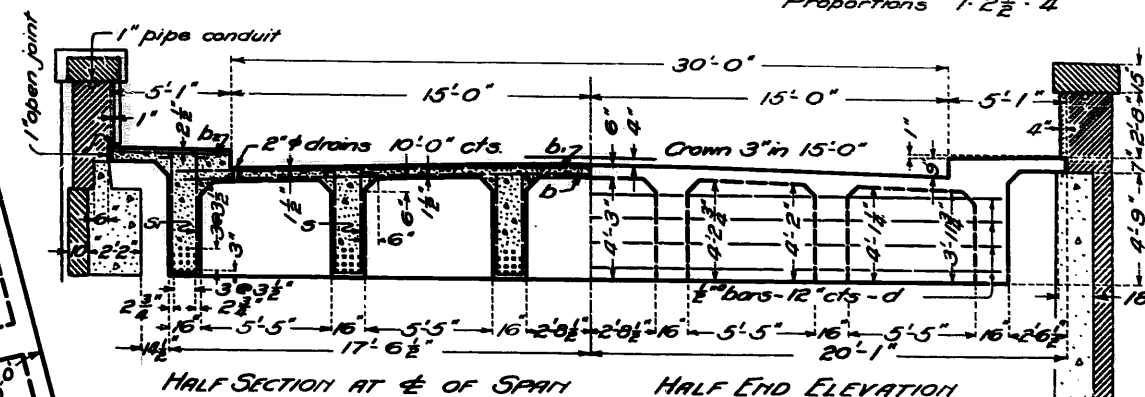
BILL OF MATERIAL - 3 SPANS

Bars	No	Size	Length	Bars	No	Size	Length
a	42	1/2"	63'-6"	b	386	1/2"	34'-6"
a <sub>1</sub>	42	1/2"	63'-0"	b <sub>1</sub>	579	1/2"	34'-0"
a <sub>2</sub>	28	1/2"	62'-6"	b <sub>2</sub>	504	1/2"	4'-9"
a <sub>3</sub>	42	1/2"	62'-0"	c	96	1/2"	33'-0"
a <sub>4</sub>	28	1/2"	61'-6"	c <sub>1</sub>	90	1/2"	31'-6"
a <sub>5</sub>	42	1/2"	61'-0"	c <sub>2</sub>	30	1/2"	33'-0"
a <sub>6</sub>	14	1/2"	64'-6"	c <sub>3</sub>	30	1/2"	31'-0"
a <sub>7</sub>	14	1/2"	60'-0"	d	8	1/2"	34'-6"
				e	712	1/2"	10'-6"
				f	360	1/2"	11'-6"

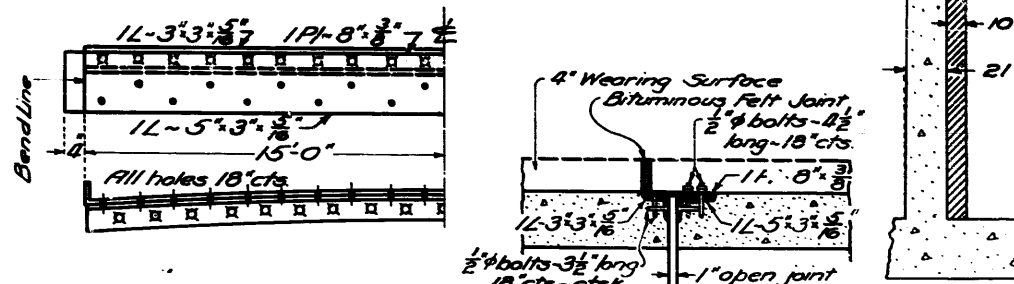
Expansion Device Lbs 1540  
Reinforcing Steel Lbs 130310 Cast Iron Rockers Lbs 3874  
Concrete Cu. Yds. 413.5 Steel Plates Lbs 1106  
Class A concrete to be used thruout  
Proportions 1-2 1/2-4



Imbed 4x4x5'0" Header to provide seating of approach sidewalk

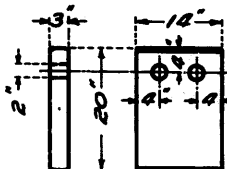


HALF SECTION AT CENTER OF SPAN HALF END ELEVATION

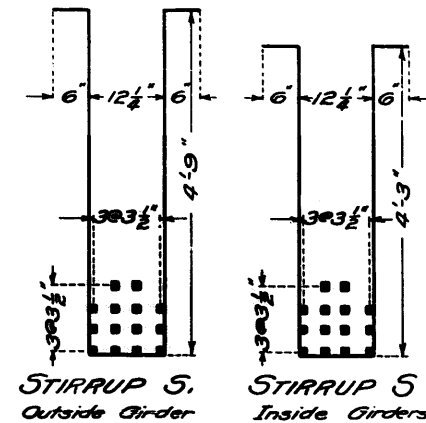


DETAIL OF EXPANSION DEVICE - 2 REQUIRED

PLAN



CAST IRON ROCKERS - 18 REQUIRED  
STEEL ROCKER PLATES - 36 REQUIRED  
8" x 14" x 1" Surface adjacent to rockers to be planed.



STONE BRIDGE  
STATION 102+91.2  
STATE ROAD ISSUE - ROUTE 42  
SECTION 112 - COOK COUNTY

STANDARD	COMPUTED - C.D. Dryfoose	EXAMINED - March 13, 1923
	CHECKED - S.A. Mackay	BY - S.A. Mackay
SPECIAL	DRAWN - C.D. Dryfoose	PASSED - [Signature]
	CHECKED - S.A. Mackay	APPROVED - C. Olden
	ASSEMBLED -	CHIEF HIGHWAY ENGINEER
	CHECKED -	







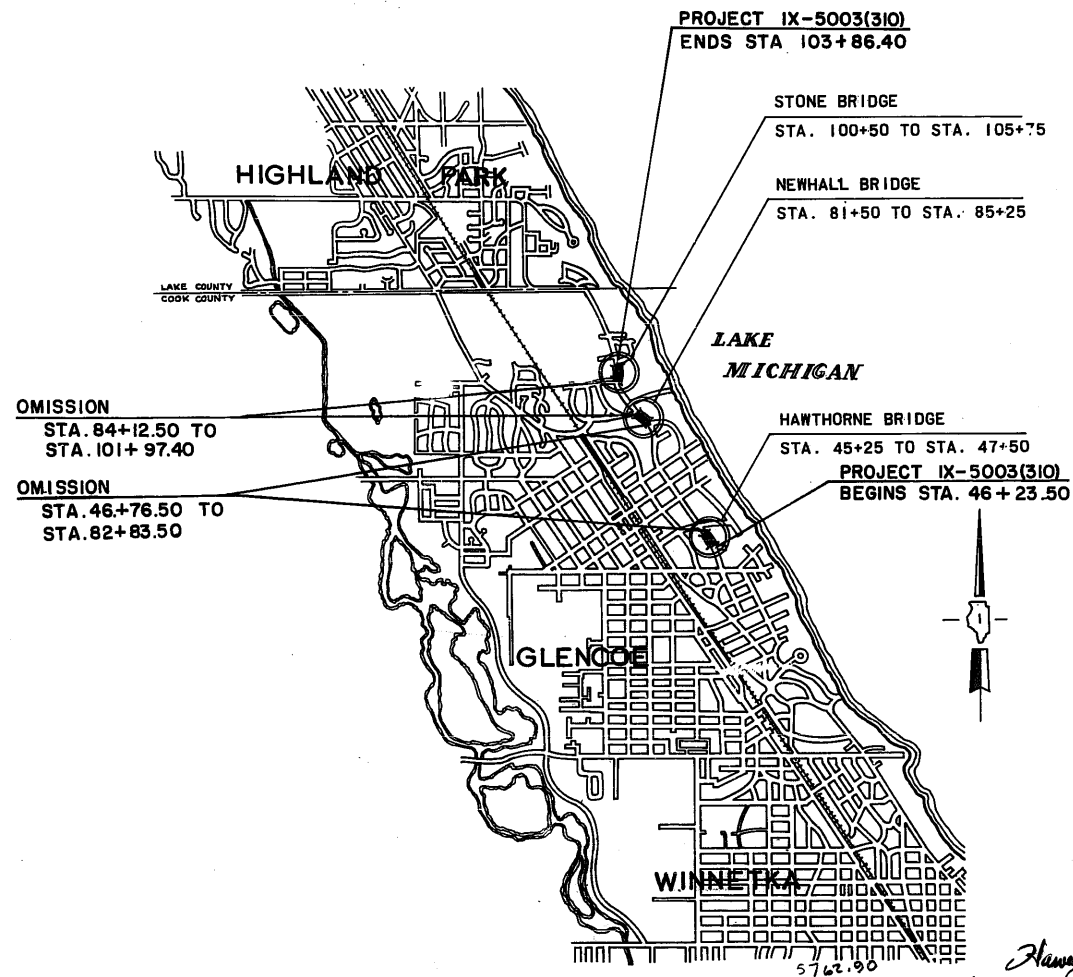
STATE OF ILLINOIS  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS DISTRICT 1  
 FEDERAL AID HIGHWAY

F.A.U. ROUTE 3509  
 SHERIDAN ROAD  
 SECTION 112 BR  
 PROJECT IX-5003(310)  
 COOK COUNTY  
 C-91-085-75

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3509	112-BR	COOK	45	1
FED. ROAD DIST. NO. 1		ILLINOIS	PROJECT IX-5003(310)	

P-91-846-71

FOR INDEX SEE SHEET NO. 2



LENGTH OF PROJECT = 5762.90 FT. = 1.091 MI.  
 HAWTHORNE BRIDGE = 225 FEET = (0.045 MILES)  
 NEWHALL BRIDGE = 375 FEET = (0.071 MILES)  
 STONE BRIDGE = 625 FEET = (0.099 MILES)

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 2 1978

EXAMINED APR 12 1978

PASSED APR 12 1978

APPROVED APR 12 1978

STATE ENGINEER  
 ENGINEER OF PLANS AND CONTRACTS  
 ENGINEER OF DESIGN  
 DIRECTOR, DIVISION OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED \_\_\_\_\_

DIVISION ADMINISTRATOR DATE

CONTRACT NO. 93120

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAUR 3500	112-88	COOK	45	2
FED. ROAD DIST. NO. 1		ILLINOIS	PROJECT	

## GENERAL NOTES

- THIS SECTION WILL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JULY 1, 1976, THE SPECIAL PROVISIONS, AND THE "MIMEOGRAPHED SUPPLEMENTAL SPECIFICATIONS".
1. EQUIPMENT: ALL DISTRIBUTORS FOR BITUMINOUS PRIMING AND SEAL COATING OPERATIONS SHALL BE EQUIPPED WITH SHIELDS TO PREVENT CONTAMINATION OF ADJACENT HIGHWAY APPURTENANCES, SHIELDS SHALL MEET WITH THE ENGINEER'S APPROVAL.
  2. FLOURESCENT VESTS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLOURESCENT ORANGE VESTS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
  3. CONCRETE BREAKER: WHEN REMOVING PAVEMENT, CURB & GUTTER, OR ANY OTHER STRUCTURES, THE USE OF ANY TYPE OF CONCRETE BREAKERS WHICH MIGHT DAMAGE THE UNDERGROUND PUBLIC OR PRIVATE UTILITIES WILL NOT BE PERMITTED. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL BE PERMITTED.
  4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL WEIGHTED SAND BAGS ON EACH BARRICADE USED.
  5. ALL GRASS AREAS DISTURBED BY EXCAVATION AND EMBANKMENT OPERATIONS AND OTHER AREAS DESIGNATED BY THE ENGINEER WILL RECEIVE TOPSOIL PLACEMENT AND SODDING AS SPECIFIED IN THE SPECIAL PROVISIONS.
  6. PROFILE GRADE ELEVATIONS FOR EACH FINISHED ROADWAY SHALL APPLY AT LOCATIONS SHOWN ON THE TYPICAL SECTIONS AND SPECIAL DETAILS.
  7. ALL TREES, SHRUBS AND BUSHES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. ALL TREES, SHRUBS & BUSHES SO DESIGNATED BY THE ENGINEER BETWEEN THE CONSTRUCTION LIMITS AND THE RIGHT-OF-WAY LINE SHALL BE SAVED.
  8. THE STANDARDS WITH THE REVISION NUMBER LISTED IN THE INDEX OF SHEETS SHALL APPLY TO THIS SECTION.
  9. ALL STATIONING IS ALONG CENTERLINE OF SURVEY EXCEPT AS OTHERWISE NOTED.

## STANDARD DRAWINGS

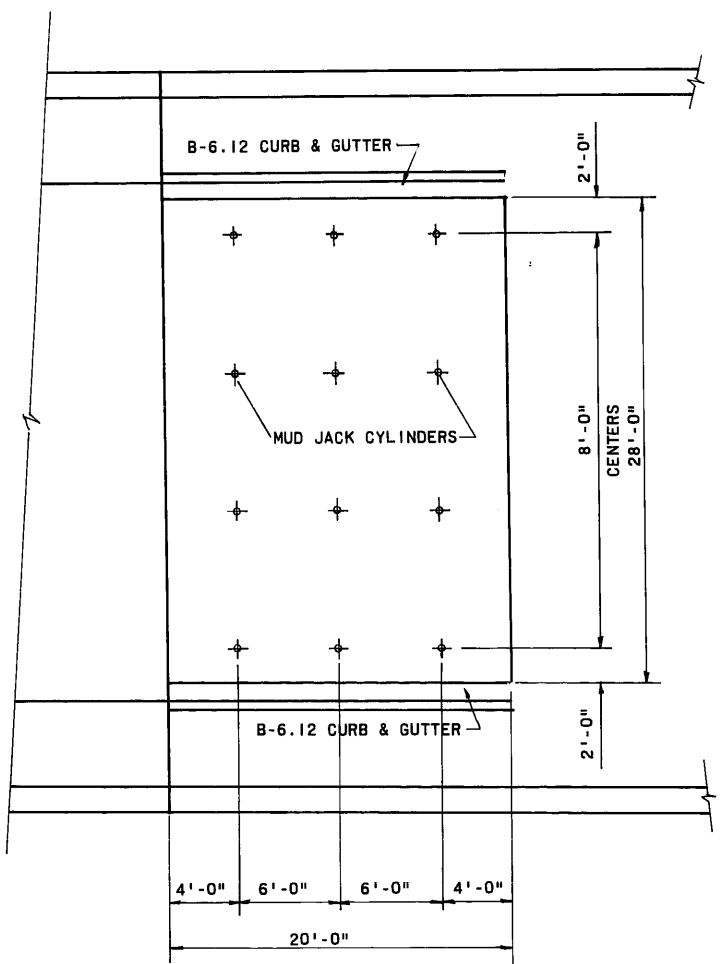
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STANDARD	1527-8
STANDARD	1564
STANDARD	1683-4
STANDARD	1686-4 , 1766-7
STANDARD	1909-10
STANDARD	2113-1 , 2115-7 , 2117-1
STANDARD	2347-1 2319-3 , 2320-3 , 2323-3
STANDARD	2130-5
STANDARD	2179-9
STANDARD	2213-4 , 2298-4 , 2299-7 , 2300-1 , 2302-3 , 2304-4 , 2305-3 , 2306-4 , 2312-5 , 2314-3

## INDEX OF DRAWINGS

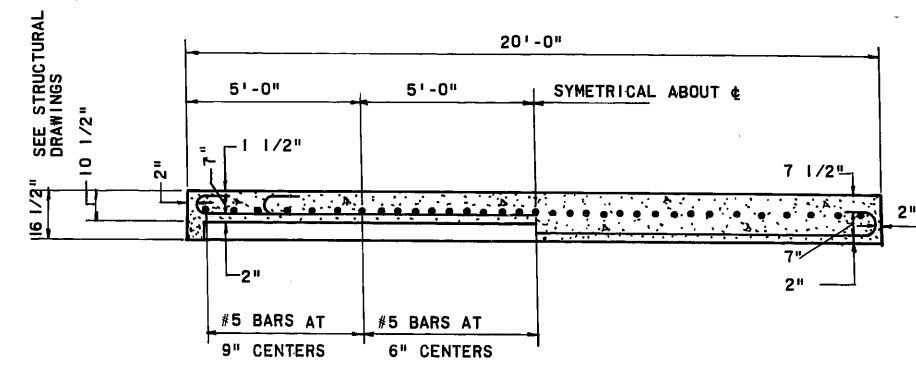
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND INDEX OF DRAWINGS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL ROADWAY SECTIONS - HAWTHORNE BRIDGE; TYPICAL PLAN AND SECTION - PRIVATE ENTRANCE
7	TYPICAL ROADWAY SECTIONS - NEWHALL BRIDGE
8	TYPICAL ROADWAY SECTIONS - STONE BRIDGE
9	PLAN AND PROFILE - HAWTHORNE BRIDGE
10	PLAN AND PROFILE - NEWHALL BRIDGE
11	PLAN AND PROFILE - STONE BRIDGE
12	CROSS SECTIONS - HAWTHORNE BRIDGE
13	CROSS SECTIONS - NEWHALL BRIDGE
14	CROSS SECTIONS - STONE BRIDGE
14A	DE TOUR PLAN
15	DETAILS APPROACH SLAB
15A	FRAME & GRATE TYPE 13-24
16	HAWTHORNE BRIDGE: - GENERAL PLAN AND ELEVATION
17	- GENERAL NOTES AND MISCELLANEOUS DETAILS
18	- TOP OF SLAB ELEVATIONS
19	- SUPERSTRUCTURE
20	- STRUCTURAL STEEL
21	- SOUTH ABUTMENT
22	- NORTH ABUTMENT
23	NEWHALL BRIDGE: - GENERAL PLAN AND ELEVATION
24	- GENERAL NOTES AND DETAILS
25	- TOP OF SLAB ELEVATIONS
26	- SUPERSTRUCTURE
27	- STRUCTURAL STEEL
28	- BEARING AND MISCELLANEOUS DETAILS
29	- PIERS NO.1 AND NO.2
30	- EAST ABUTMENT
31	- EAST ABUTMENT
32	- WEST ABUTMENT
33	- ARCH AT SPAN 1
34	- CONCRETE PILES STANDARD X-3
35	STONE BRIDGE: - GENERAL PLAN AND ELEVATION
36	- GENERAL NOTES AND DETAILS
37	- TOP OF SLAB ELEVATIONS
38	- TOP OF SLAB ELEVATIONS
39	- SUPERSTRUCTURE
40	- STRUCTURAL STEEL
41	- BEARING DETAILS
42	- PIERS NO.1 AND NO.2
43	- NORTH ABUTMENT
44	- SOUTH ABUTMENT
45	- MISCELLANEOUS DETAILS

GENERAL NOTES  
INDEX OF DRAWINGS  
STANDARD DRAWINGS



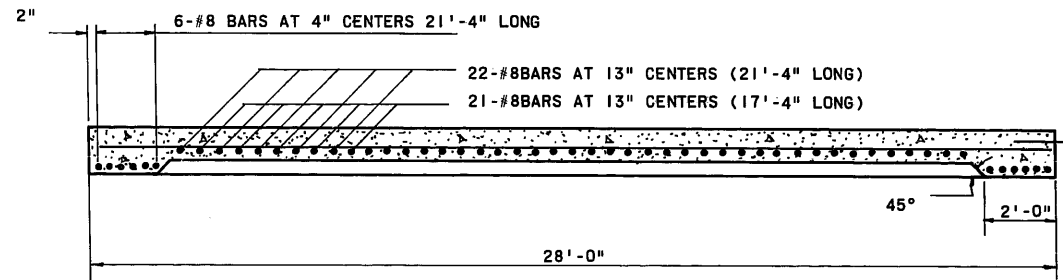


**PLAN  
METHOD I**



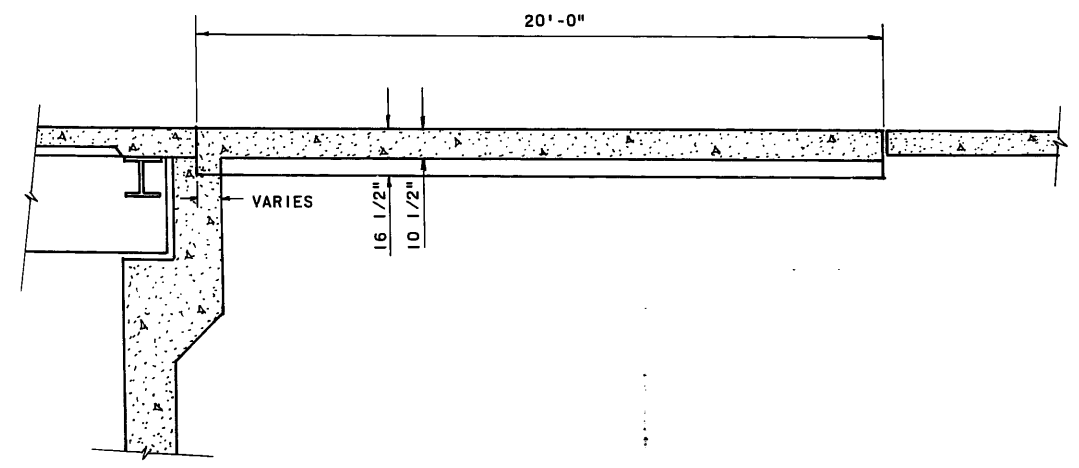
**LONGITUDINAL SECTION THRU  
CENTER OF SLAB**

**LONGITUDINAL SECTION THRU  
THICKENED EDGE OF SLAB**



**SECTIONAL VIEW OF CONCRETE SLAB**

#4 TIE BARS AT 2'-6" CENTERS (2'-6" LONG)  
COST OF THE TIE BARS INCLUDED IN CONTRACT  
UNIT PRICE FOR CURB & GUTTER



**SECTIONAL VIEW  
METHOD I**

(QUANTITIES FOR ONE 28'-0" APPROACH AND SLAB STANDARD 1909 MODIFIED)

TRANSVERSE BARS #5 METHOD I		LONGITUDINAL BARS #8 METHOD I	TOTAL WEIGHT OF BARS METHOD I	PAVEMENT 16 1/2"-10 1/2"-16 1/2" METHOD I
NO.	LENGTH		POUNDS	SQ. YDS.
33	27'-6"	34 AT 21'-4" LONG 21 AT 17'-4" LONG	3855	62.2

**GENERAL NOTES**

1. THE SLAB WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR PORTLAND CEMENT CONCRETE PAVEMENT (16 1/2"-10 1/2"-16 1/2")
2. ALL REINFORCEMENT BARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR REINFORCEMENT BARS, EXCEPT AS NOTED.
3. THE MUD JACK CYLINDERS, AND PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PORTLAND CEMENT CONCRETE PAVEMENT (16 1/2"-10 1/2"-16 1/2")
4. PREFORMED EXPANSION JOINT FILLER SHALL CONFORM TO SECTION 715 OF THE STANDARD SPECIFICATION.
5. WIDTH OF BRIDGE APPROACH SLAB POURS SHALL BE DETERMINED BEFORE THE REINFORCEMENT BARS ARE FABRICATED.
6. THE CONTRACTOR SHALL, AFTER COMPLETION OF THE FINISHING OPERATIONS, MARK THE LOCATION OF THE MUD JACK CYLINDERS.
7. FOR FURTHER DETAILS SEE STANDARD 1909.

**APPROACH SLAB DETAIL  
HAWTHORNE BRIDGE  
NEWHALL BRIDGE  
STONE BRIDGE**

Bench Mark Elevation = 657.35  
 S.E. Flange bolt on top flange of fire hydrant N.W. corner of Franklin and Sheridan equals elevation 7786 for elevation as shown on old existing drawings

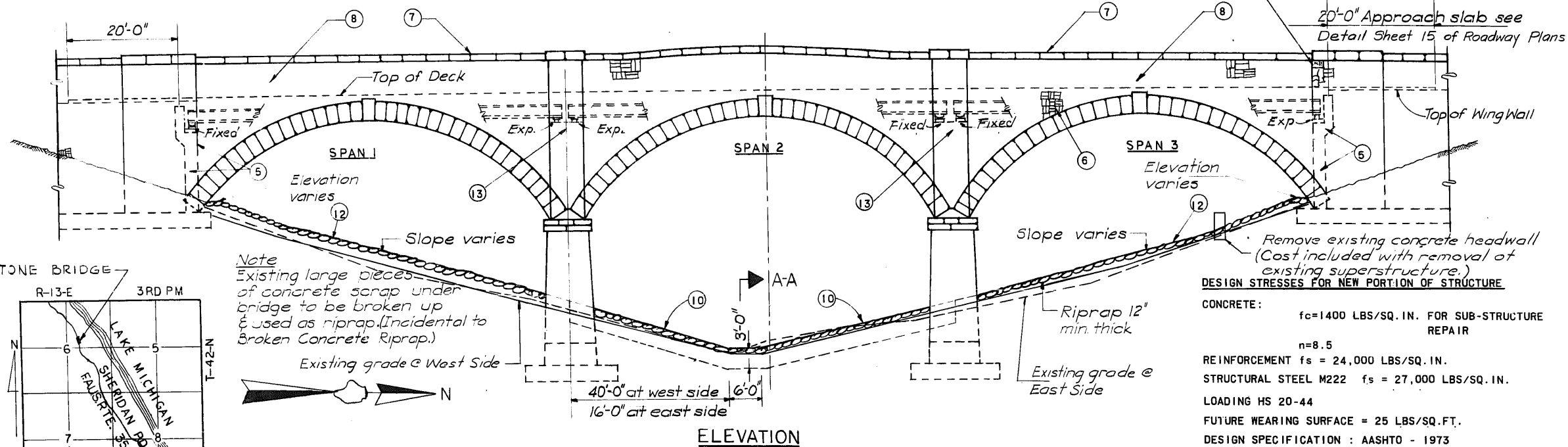
**Note:**  
 1) \* indicates elevation of broken concrete riprap and surrounding terrain  
 2) Contractor shall provide grading from proposed edge of riprap to existing grade at R.O.W. Line. Cost incidental to Special Excavation.

New Name Plate on interior face of wall. See Std. 2113  
 Place Old Name Plate Below New Name Plate.

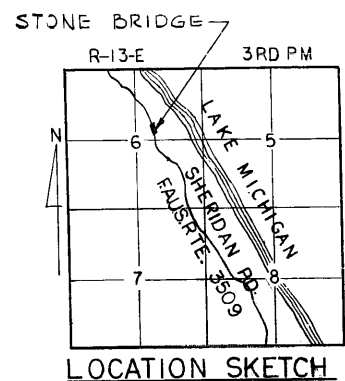
ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAUG 3509	112-BR	COOK	45	35
FED. ROAD DIST. NO. 1		ILLINOIS PROJECT		SHEET NO. OF 11 SHEETS

**LEGEND OF CONSTRUCTION**

1. REMOVE EXISTING CONCRETE DECK & BEAMS.
2. PLACE NEW CONCRETE DECK AND NEW STEEL BEAMS.
3. PROVIDE EPOXY COATED BARS FOR CONCRETE DECK.
4. PROVIDE NEW PREFORMED JOINT SEALER.
5. REPAIR PART OF ABUTMENT AND ADJUST TOP OF ABUTMENT WITH NEW CONSTRUCTION.
6. TUCK POINT EXISTING MASONRY PARAPET AND WALLS AS PER ENGINEER INSTRUCTIONS.
7. REPLACE STONE MASONRY COPING AS PER SPECIFICATIONS
8. REMOVE AND REPLACE STONE OR EXISTING PARAPET AT BASE OF SIDEWALK.
9. PROVIDE NEW CONCRETE APPROACH SLAB.
10. PLACE BROKEN CONCRETE RIP RAP FROM BASE OF CREEK TO ABUTMENT AS SHOWN.
11. PROVIDE FILL MATERIAL AT BASE OF WING WALLS SO AS TO CAUSE THE WATER TO FLOW AWAY FROM WING WALLS. TYPICAL FOR ALL FOUR WALLS.
12. CLEAN UNDER THE BRIDGE BEFORE PLACEMENT OF RIP RAP WORK, INCIDENTAL TO SLOPE WALL WORK.
13. REPAIR TOP OF EXISTING PIERS.
14. PROVIDE INLET DRAINS.
15. PROVIDE 4"x12" ALUMINUM FLOOR DRAINS SPACED AT 6'-0" ON CENTER.
16. PROVIDE BROKEN CONCRETE RIP RAP PROTECTION TO LIMITS AS SHOWN ON PLANS.



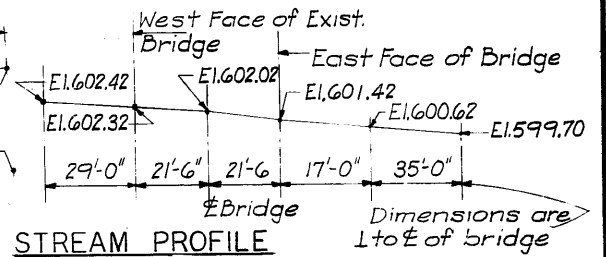
**DESIGN STRESSES FOR NEW PORTION OF STRUCTURE**  
 CONCRETE:  $f_c = 1400$  LBS/SQ. IN. FOR SUB-STRUCTURE REPAIR  
 $n = 8.5$   
 REINFORCEMENT  $f_s = 24,000$  LBS/SQ. IN.  
 STRUCTURAL STEEL M222  $f_s = 27,000$  LBS/SQ. IN.  
 LOADING HS 20-44  
 FUTURE WEARING SURFACE = 25 LBS/SQ. FT.  
 DESIGN SPECIFICATION : AASHTO - 1973 AND INTERIM SPECIFICATIONS 1974, 1975 AND 1976 AS APPLICABLE  
 LOAD FACTOR DESIGN FOR DECK SLAB  $f_c' = 3500$  PSI  
 $f_y = 60,000$  PSI



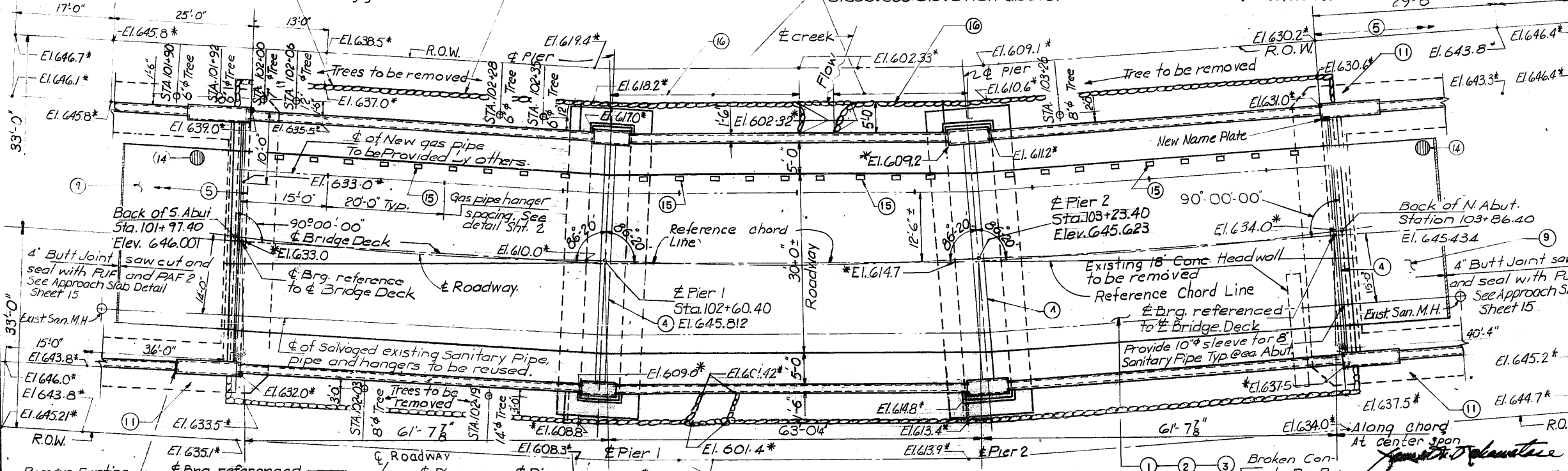
**Note**  
 Existing large pieces of concrete scrap under bridge to be broken up & used as riprap. (Incidental to Broken Concrete Riprap.)

Riprap shall conform to existing ground contour.

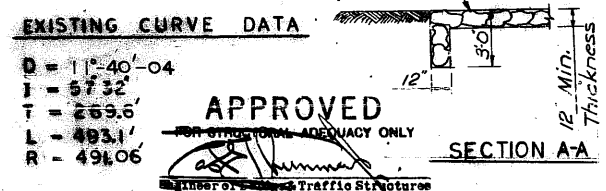
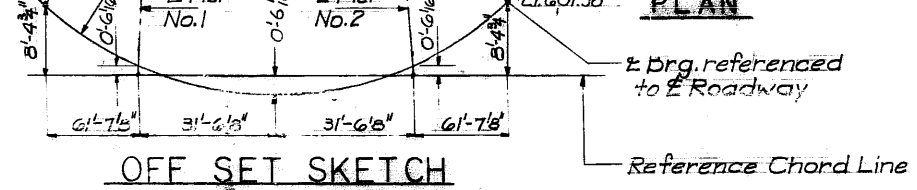
Broken Concrete Riprap to extend 3'-0" down below grade, typical both sides. See elevation above.



**WATERWAY DATA**  
 Drainage area: 67 Acres  
 Character: Pavement & Wooded Ravines  
 Required Opening: 45 Sq. Ft.  
 $Q_{50} = 300$  CFS  
 High Water (50 Year) Elev. 605.42



DESIGNED	SCN
CHECKED	ED
DRAWN	ARB
CHECKED	ED

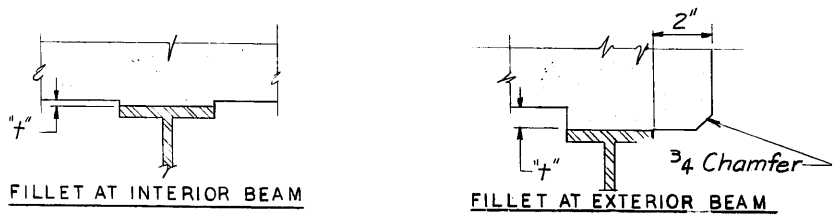
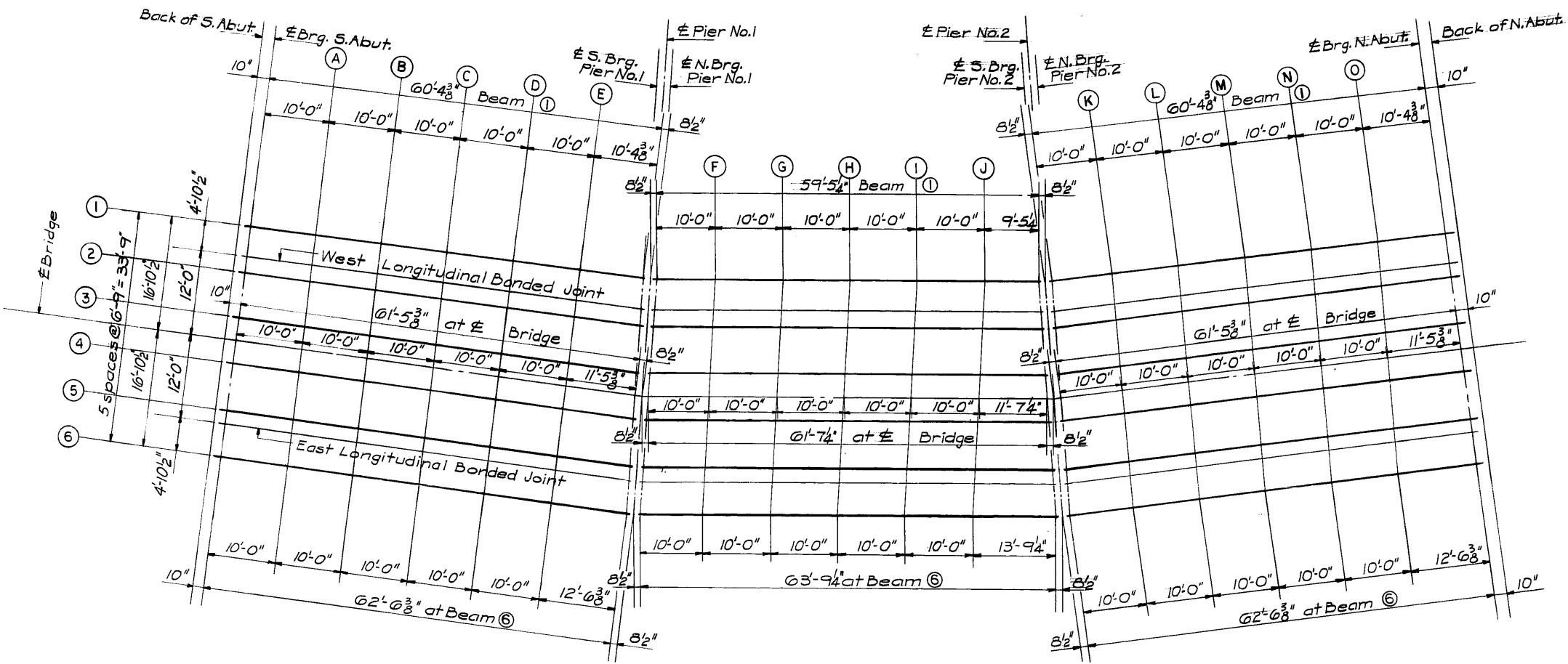


**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY  
 HANSEN, SCHNEEMAN & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 223 West Jackson Blvd., Suite 703  
 Chicago, Illinois - 60604

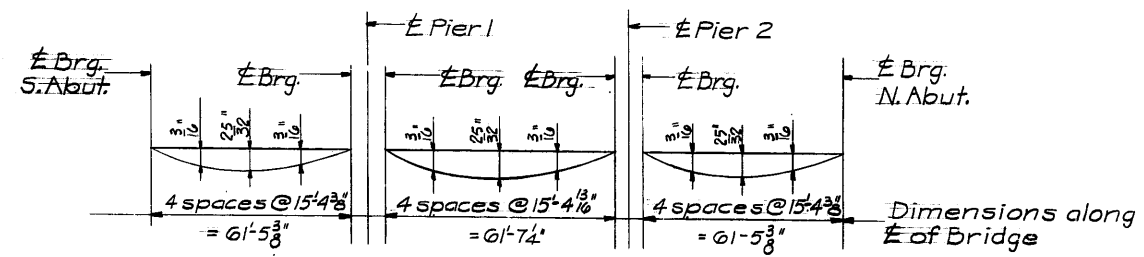
**GENERAL PLAN AND ELEVATION  
 STONE BRIDGE**  
**FAUGS. RTE. 3509 SHERIDAN ROAD**

SECTION	112-BR
COUNTY	COOK
STATION	102+91.9





FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM  
(Includes weight of concrete)

Note:  
To determine "t" after all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown above minus slab thickness equals the fillet heights "t" above top flange of beams.

Note:  
The deflections are not to be used in the field if the engineers are working from the grade elevations adjusted for dead load deflections as shown in top of Slab Elevation Schedule Sheet No. 4

DESIGNED	AS
CHECKED	
DRAWN	JGN
CHECKED	

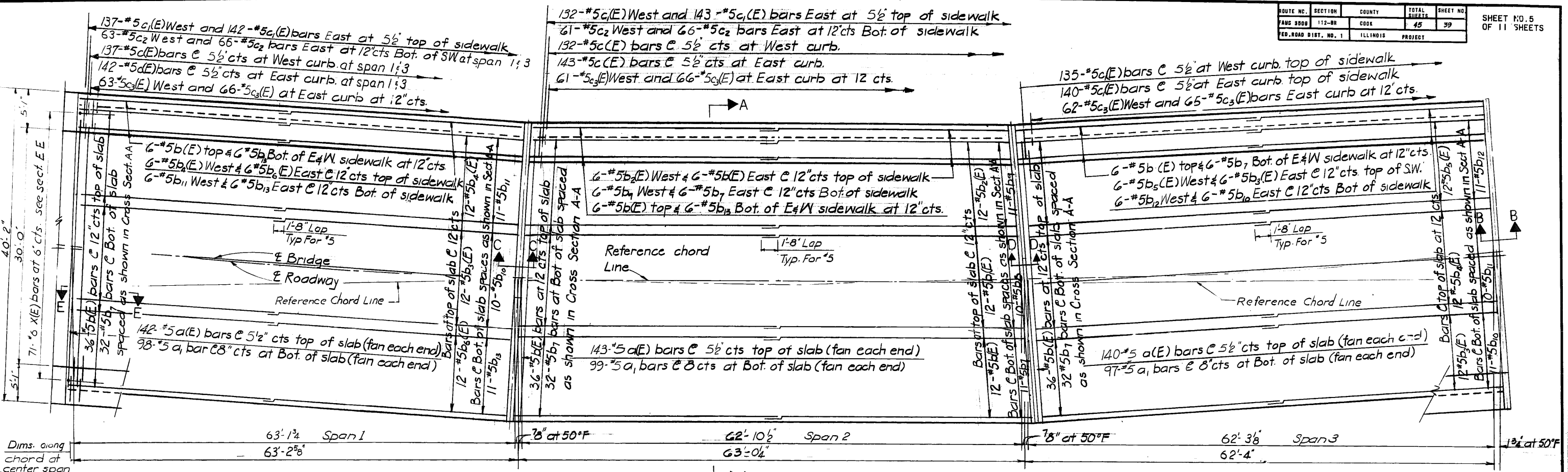
**TOP OF SLAB ELEVATIONS**  
**STONE BRIDGE**  
**F.A.U.S. RTE. 3509 SHERIDAN ROAD**

SECTION	112-BR
COOK COUNTY	
STATION	102+91.9

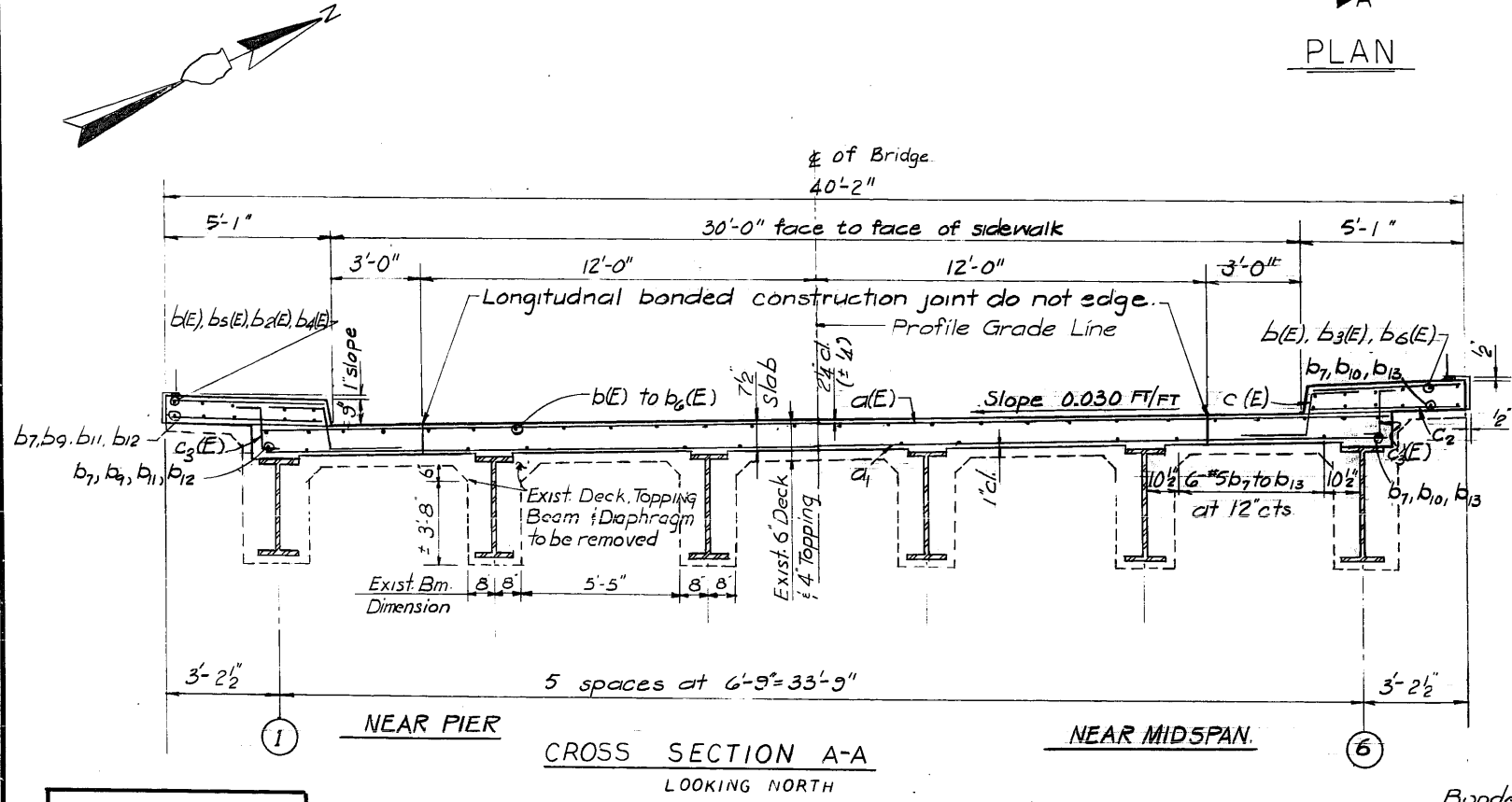
HANSEN, SCHNEEMAN & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
223 West Jackson Blvd., Suite 703  
Chicago, Illinois - 60604



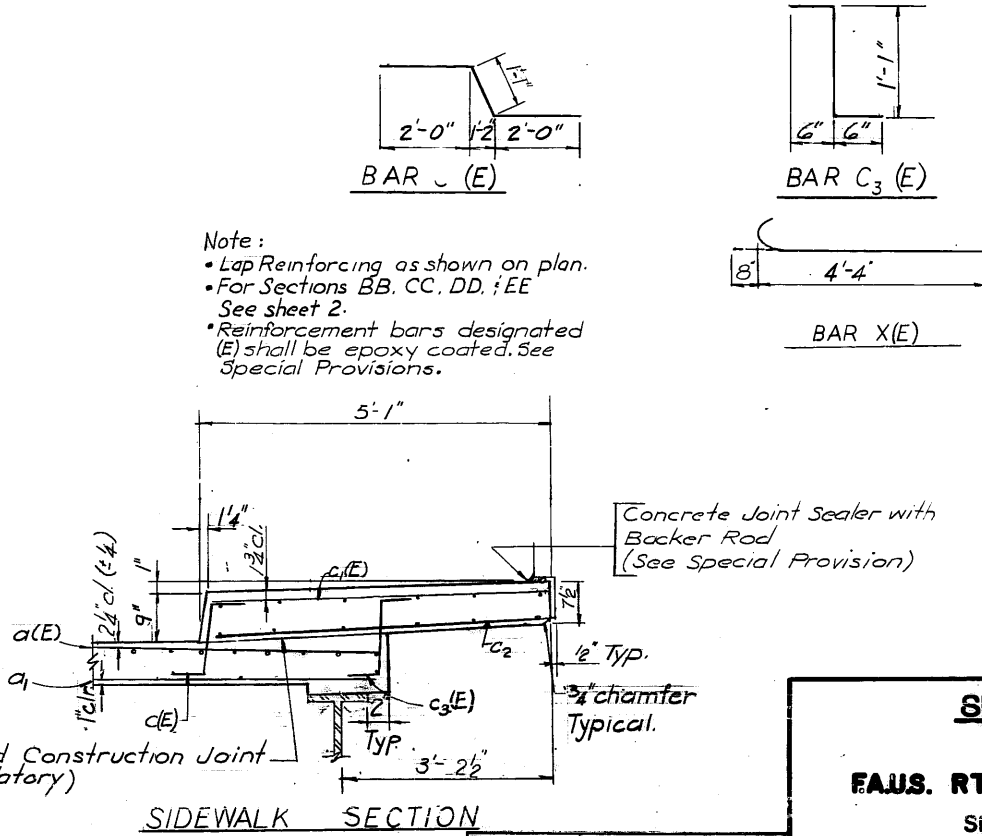
BEAM OR JOINT	LOCATION SPAN NO. 1	STATION	RADIAL OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION	BEAM OR JOINT	LOCATION SPAN NO. 2	STATION	RADIAL OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION	BEAM OR JOINT	LOCATION SPAN NO. 3	STATION	RADIAL OFFSET	THEORETICAL GRADE ELEVATION	THEORETICAL GRADE ELEV. ADJUSTED FOR DEAD LOAD DEFLECTION
GIRDER 1	BK. S. ABUT.	10196.3167	-16.3403	645.5141	645.5141	GIRDER 1	☐ PIER NO. 1	10260.4000	-16.4090	645.3197	645.3197	GIRDER 1	☐ PIER NO. 2	10323.4000	-16.4090	645.1307	645.1307
	☐ BRG. S. ABUT.	10197.1766	-16.3948	645.5098	645.5098		☐ N. BRG. PIER NO. 1	10261.1325	-16.4500	645.3162	645.3162		☐ N. BRG. PIER NO. 2	10324.1325	-16.4500	645.1272	645.1272
	A	10207.5130	-16.8354	645.4626	645.4626		F	10271.4710	-16.9750	645.2695	645.2695		K	10334.4710	-16.9750	645.0805	645.1165
	B	10217.8683	-17.2655	645.4216	645.4216		G	10281.8277	-17.2856	645.2292	645.2292		L	10344.8277	-17.2855	645.0402	645.0979
	C	10228.2335	-17.3847	645.3870	645.4521		H	10292.1933	-17.3851	645.1951	645.2602		M	10355.1933	-17.3850	645.0061	645.0712
D	10238.5992	-17.2927	645.3586	645.4168	I	10302.5587	-17.2736	645.1673	645.2246	N	10365.5587	-17.2735	644.9783	644.9569			
E	10248.9564	-16.9898	645.3366	645.3736	J	10312.9145	-16.9512	645.1459	645.1807	O	10375.9145	-16.9510	644.9415	644.9785			
☐ S. BRG. PIER NO. 1	10259.6675	-16.4539	645.3206	645.3206	☐ S. BRG. PIER NO. 2	10322.6675	-16.4540	645.1316	645.1316	☐ BRG. N. ABUT.	10386.6234	-16.3948	644.9415	644.9415			
☐ PIER NO. 1	10260.4000	-16.4090	645.3197	645.3197	☐ PIER NO. 2	10323.4000	-16.4090	645.1307	645.1307	BK. N. ABUT.	10387.4833	-16.3403	644.9406	644.9406			
W. LONG. BONDED JT.	BK. S. ABUT.	10196.6470	-11.4759	645.6590	645.6590	W. LONG. BONDED JT.	☐ PIER NO. 1	10260.4000	-11.5240	645.4663	645.4663	W. LONG. BONDED JT.	☐ PIER NO. 2	10323.4000	-11.5240	645.2773	645.2773
	☐ BRG. S. ABUT.	10197.4981	-11.5299	645.6548	645.6548		☐ N. BRG. PIER NO. 1	10261.1251	-11.5690	645.4628	645.4628		☐ N. BRG. PIER NO. 2	10324.1251	-11.5690	645.2738	645.2738
	A	10207.7298	-12.0650	645.6081	645.6438		F	10271.3581	-12.0913	645.4164	645.4525		K	10334.3581	-12.0912	645.2274	645.2632
	B	10217.9799	-12.3917	645.5675	645.6250		G	10281.6091	-12.4052	645.3762	645.4340		L	10344.6091	-12.4051	645.1872	645.2447
	C	10228.2395	-12.5097	645.5332	645.5983		H	10291.8690	-12.5103	645.3423	645.4074		M	10354.8690	-12.5101	645.1533	645.2184
D	10238.4997	-12.4187	645.5051	645.5636	I	10302.1289	-12.4064	645.3146	645.3725	N	10365.1289	-12.4062	645.1256	645.1841			
E	10248.7515	-12.1189	645.4834	645.5212	J	10312.3799	-11.9598	645.2933	645.3296	O	10375.3799	-12.0935	645.1043	645.1421			
☐ S. BRG. PIER NO. 1	10259.6749	-11.5690	645.4671	645.4671	☐ S. BRG. PIER NO. 2	10322.6749	-11.5690	645.2781	645.2781	☐ BRG. N. ABUT.	10386.3019	-11.5299	645.0884	645.0884			
☐ PIER NO. 1	10260.4000	-11.5240	645.4663	645.4663	☐ PIER NO. 2	10323.4000	-11.5240	645.2773	645.2773	BK. N. ABUT.	10387.1530	-11.4759	645.0875	645.0875			
GIRDER 2	BK. S. ABUT.	10196.7722	-8.6049	645.7147	645.7147	GIRDER 2	☐ PIER NO. 1	10260.4000	-9.6450	645.5227	645.5227	GIRDER 2	☐ PIER NO. 2	10323.4000	-9.6450	645.3337	645.3337
	☐ BRG. S. ABUT.	10197.6201	-9.6586	645.7106	645.7106		☐ N. BRG. PIER NO. 1	10261.1223	-9.6900	645.5191	645.5191		☐ N. BRG. PIER NO. 2	10324.1223	-9.6900	645.3301	645.3301
	A	10207.8120	-10.1917	645.6640	645.6998		F	10271.3153	-10.2127	645.4729	645.5089		K	10334.3153	-10.2127	645.2839	645.3197
	B	10218.0222	-10.5171	645.6236	645.6811		G	10281.5282	-10.5279	645.4328	645.4905		L	10344.5282	-10.5279	645.2438	645.3013
	C	10228.2418	-10.6346	645.5894	645.6545		H	10291.7460	-10.6351	645.3989	645.4640		M	10354.7460	-10.6350	645.2099	645.2750
D	10238.4620	-10.5440	645.5615	645.6190	I	10301.9660	-10.5342	645.3713	645.4295	N	10364.9660	-10.5341	645.1823	645.2409			
E	10248.6738	-10.2453	645.5398	645.5778	J	10312.1772	-10.2253	645.3499	645.3868	O	10375.1772	-10.2251	645.1609	645.1917			
☐ S. BRG. PIER NO. 1	10259.6777	-9.6900	645.5235	645.5235	☐ S. BRG. PIER NO. 2	10322.6777	-9.6900	645.3345	645.3345	☐ BRG. N. ABUT.	10386.1799	-9.6586	645.1449	645.1449			
☐ PIER NO. 1	10260.4000	-9.6450	645.5227	645.5227	☐ PIER NO. 2	10323.4000	-9.6450	645.3337	645.3337	BK. N. ABUT.	10387.0276	-9.6049	645.1440	645.1440			
GIRDER 3	BK. S. ABUT.	10197.2151	-2.8691	645.9155	645.9155	GIRDER 3	☐ PIER NO. 1	10260.4000	-2.8810	645.7256	645.7256	GIRDER 3	☐ PIER NO. 2	10323.4000	-2.8810	645.5366	645.5366
	☐ BRG. S. ABUT.	10198.0513	-2.9221	645.9114	645.9114		☐ N. BRG. PIER NO. 1	10261.1122	-2.9260	645.7221	645.7221		☐ N. BRG. PIER NO. 2	10324.1122	-2.9260	645.5331	645.5331
	A	10208.1028	-3.4477	645.8656	645.9011		F	10271.1639	-3.4504	645.6762	645.7118		K	10334.1639	-3.4504	645.4872	645.5228
	B	10218.1719	-3.7687	645.8256	645.8629		G	10281.2330	-3.7701	645.6364	645.6937		L	10344.2330	-3.7701	645.4474	645.5047
	C	10228.2499	-3.8946	645.7919	645.8570		H	10291.3111	-3.8847	645.6027	645.6678		M	10354.3111	-3.8847	645.4137	645.4788
D	10238.3285	-3.7952	645.7644	645.8294	I	10301.3896	-3.7941	645.5752	645.6341	N	10364.3896	-3.7940	645.3862	645.4452			
E	10248.3991	-3.5007	645.7430	645.7820	J	10311.4602	-3.4983	645.5539	645.5928	O	10374.4602	-3.4982	645.3649	645.4039			
☐ S. BRG. PIER NO. 1	10259.6878	-2.9260	645.7264	645.7264	☐ S. BRG. PIER NO. 2	10322.6878	-2.9260	645.5374	645.5374	☐ BRG. N. ABUT.	10385.7487	-2.9221	645.3483	645.3483			
☐ PIER NO. 1	10260.4000	-2.8810	645.7256	645.7256	☐ PIER NO. 2	10323.4000	-2.8810	645.5366	645.5366	BK. N. ABUT.	10386.5849	-2.8691	645.3474	645.3474			
ROADWAY	BK. S. ABUT.	10197.4000	-0.0000	646.0010	646.0010	ROADWAY	☐ PIER NO. 1	10260.4000	-0.0000	645.8120	645.8120	ROADWAY	☐ PIER NO. 2	10323.4000	-0.0000	645.6230	645.6230
	☐ BRG. S. ABUT.	10198.2350	-0.0000	645.9985	645.9985		☐ N. BRG. PIER NO. 1	10261.1081	-0.0000	645.8099	645.8099		☐ N. BRG. PIER NO. 2	10324.1081	-0.0000	645.6209	645.6209
	A	10208.2350	-0.0000	645.9685	646.0040		F	10271.1081	-0.0000	645.7799	645.8143		K	10334.1081	-0.0000	645.5909	645.6254
	B	10218.2350	-0.0000	645.9385	645.9957		G	10281.1081	-0.0000	645.7499	645.8060		L	10344.1081	-0.0000	645.5609	645.6181
	C	10228.2350	-0.0000	645.9085	645.9736		H	10291.1081	-0.0000	645.7199	645.7750		M	10354.1081	-0.0000	645.5309	645.5960
D	10238.2350	-0.0000	645.8785	645.9377	I	10301.1081	-0.0000	645.6899	645.7491	N	10364.1081	-0.0000	645.5009	645.5601			
E	10248.2350	-0.0000	645.8485	645.8880	J	10311.1081	-0.0000	645.6599	645.6996	O	10374.1081	-0.0000	645.4709	645.5104			
☐ S. BRG. PIER NO. 1	10259.6919	-0.0000	645.8142	645.8142	☐ S. BRG. PIER NO. 2	10322.6919	-0.0000	645.6299	645.6299	☐ BRG. N. ABUT.	10385.5686	-0.0000	645.4409	645.4409			
☐ PIER NO. 1	10260.4000	-0.0000	646.0010	646.0010	☐ PIER NO. 2	10323.4000	-0.0000	645.6230	645.6230	BK. N. ABUT.	10386.4000	-0.0000	645.4340	645.4340			
BRIDGE DECK	BK. S. ABUT.	10197.4319	0.4990	646.0159	646.0159	BRIDGE DECK	☐ PIER NO. 1	10260.4000	0.5010	645.8270	645.8270	BRIDGE DECK	☐ PIER NO. 2	10323.4000	0.5010	645.6380	645.6380
	☐ BRG. S. ABUT.	10198.2625	0.4463	646.0118	646.0118		☐ N. BRG. PIER NO. 1	10261.1073	0.4560	645.8236	645.8236		☐ N. BRG. PIER NO. 2	10324.1073	0.4560	645.6346	645.6346
	A	10208.2452	-0.0757	645.9662	646.0017		F	10271.0898	-0.0693	645.7779	645.8133		K	10334.0898	-0.0692	645.5889	645.6244
	B	10218.2451	-0.3945	645.9266	645.9838		G	10281.0895	-0.3914	645.7382	645.7933		L	10344.0895	-0.3911	645.5492	645.6044
	C	10228.2539	-0.5096	645.8932	645.9583		H	10291.0981	-0.5098	645.7046	645.7697		M	10354.0981	-0.5093	645.5156	645.5807
D	10238.2631	-0.4208	645.8658	645.9250	I	10301.1074	-0.4244	645.6772	645.7365	N	10364.1074	-0.4237	645.4882	645.5474			
E	10248.2646	-0.1283	645.8446	645.8841	J	10311.1091	-0.1352	645.6558	645.6956	O	10374.1091	-0.1344	645.4669	645.5064			
☐ S. BRG. PIER NO. 1	10259.6927	0.4560	645.8278	645.8278	☐ S. BRG. PIER NO. 2	10322.6927	0.4550	645.6388	645.6388	☐ BRG. N. ABUT.	10385.5375	0.4463	645.4500	645.4500			
☐ PIER NO. 1	10260.4000	0.5010	645.8270	645.8270	☐ PIER NO. 2	10323.4000	0.5000	645.6380	645.6380	BK. N. ABUT.	10386.3681	0.4990	645.4491	645.4491			
GIRDER 4	BK. S. ABUT.	10197.6459	3.8671	646.1163	646.1163	GIRDER 4	☐ PIER NO. 1	10260.4000	3.8830	645.9285	645.9285	GIRDER 4	☐ PIER NO. 2	10323.4000	3.8830	645.7395	645.7395
	☐ BRG. S. ABUT.	10198.4708	3.8148	646.1122	646.1122		☐ N. BRG. PIER NO. 1	10261.1025	3.8380	645.9250	645.9250		☐ N. BRG. PIER NO. 2	10324.1025	3.8380	645.7360	645.7360
	A	10208.3857	3.2963	646.0669	646.1023		F	10271.0167									



PLAN



CROSS SECTION A-A  
LOOKING NORTH



SIDEWALK SECTION

Note:  
 • Lap Reinforcing as shown on plan.  
 • For Sections BB, CC, DD, EE See sheet 2.  
 • Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	425	#5	34'-9"	—
a1	295	#5	34'-9"	—
b(E)	156	#5	33'-8"	—
b1(E)	12	#5	31'-5"	—
b2(E)	18	#5	29'-9"	—
b3(E)	30	#5	31'-9"	—
b4(E)	30	#5	30'-10"	—
b5(E)	18	#5	30'-2"	—
b6(E)	18	#5	32'-8"	—
b7	125	#5	33'-8"	—
b8	10	#5	31'-5"	—
b9	17	#5	29'-9"	—
b10	27	#5	31'-9"	—
b11	27	#5	30'-10"	—
b12	17	#5	30'-2"	—
b13	41	#5	33'-3"	—
C(E)	833	#5	5'-1"	—
C1(E)	829	#5	4'-8"	—
C2	385	#5	4'-8"	—
C3(E)	383	#5	2'-1"	—
X(E)	71	#6	5'-0"	—
ITEM	UNIT	TO AL		
Concrete Joint Sealer w/ Backer Rod	Linear Feet	380		
Reinforcement Bar	Lbs.	21,530		
Class X Concrete	Cu. Yds.	209		
Remove Exist. Super-Str	Each	1		
Reinf. Bar Epoxy Coat.	Lbs.	34,740		

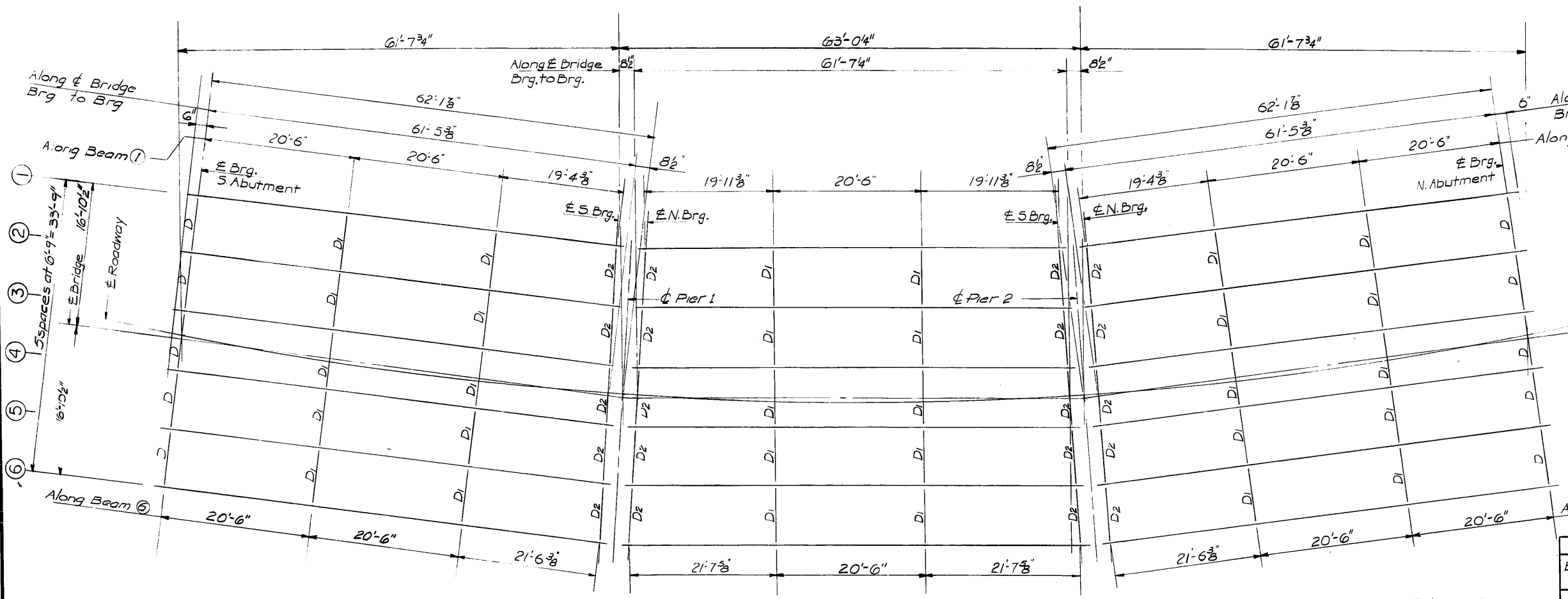
SUPERSTRUCTURE  
STONE BRIDGE

FAUC. RTE. 3509 SHERIDAN ROAD

SECTION 112-BR  
 COOK COUNTY  
 STATION 102+91.9

DESIGNED	S.C.N.
CHECKED	E.D.
DRAWN	K.C.
CHECKED	S.C.N.

HANSEN, SCHNEEMAN & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 223 West Jackson Blvd., Suite 703  
 Chicago, Illinois — 60604



INTERIOR BEAM MOMENT TABLE

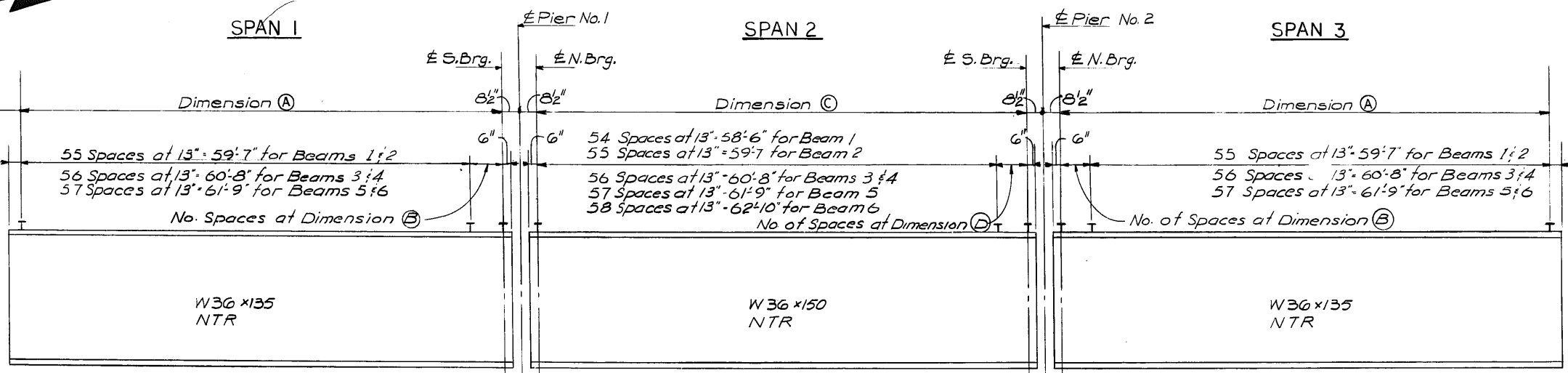
	Span 1 & 3	Span 2
I <sub>s</sub> (IN <sup>4</sup> )	7820	9030
I <sub>c</sub> (IN <sup>4</sup> )	20,712.3	21,894.4
S <sub>s</sub> (IN <sup>3</sup> )	440	504
S <sub>c</sub> (IN <sup>3</sup> )	666.2	712
D (K/F)	0.786	0.806
M <sub>D</sub> (FK)	384	409.4
f <sub>sD</sub> (KSI)	10.5	9.8
S <sub>D</sub> (K/F)	0.425	0.425
M <sub>sD</sub> (FK)	207.8	215.9
M <sub>4</sub> (FK)	520	530.9
M <sub>imp</sub> (FK)	140.4	140.7
Total M (FK)	1252.2	1296.9
f <sub>s4</sub> + f <sub>sD</sub> (KSI)	15.6	15.0
f <sub>s</sub> total (KSI)	26.1	24.8
VR (K)	47.4	47.3

INTERIOR BEAM REACTIONS

	Span 1 & 3	Span 2
R <sub>D</sub> (K)	37.9	39.2
R <sub>4</sub> (K)	37.3	37.5
R <sub>imp</sub> (K)	9.9	9.9
R <sub>total</sub> (K)	85.1	86.6

TOP OF BEAM ELEVATIONS \*

Beam No.	Span 1		Span 2		Span 3	
	E. Brg. S. Abut.	E. S. Brg. Pier 1	E. N. Brg. Pier 1	E. S. Brg. Pier 2	E. N. Brg. Pier 2	E. Brg. N. Abut.
1	644.843	644.628	644.650	644.465	644.461	644.249
2	645.044	644.831	644.852	644.668	644.663	644.452
3	645.245	645.032	645.055	644.871	644.866	644.654
4	645.446	645.237	645.258	645.074	645.069	644.859
5	645.646	645.439	645.461	645.276	645.272	645.062
6	645.847	645.642	645.664	645.479	645.475	645.266



BEAM DIMENSIONS

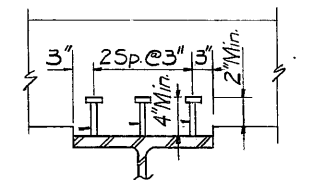
Beam No.	Span 1 & 3		Span 2	
	Dim. A Brg. to Brg.	No. of Spaces at Dimension B	Dim. C Brg. to Brg.	No. of Spaces at Dimension D
1	60'-4 3/8"	1 at 9 3/8"	59'-5 1/4"	2 at 5 3/8"
2	60'-9 3/8"	2 at 7 1/8"	60'-3 1/8"	1 at 8 1/8"
3	61'-2 3/4"	1 at 6 3/4"	61'-2"	1 at 6"
4	61'-8"	1 at 12"	62'-0 1/8"	2 at 8 1/2"
5	62'-1 3/16"	1 at 4 3/8"	62'-10 13/16"	2 at 6 3/8"
6	62'-6 3/8"	1 at 9 3/8"	63'-9 1/4"	1 at 11 1/4"

BILL OF MATERIALS

Item	Unit	Total
Structural Steel	Lbs.	77710

DESIGNED  
CHECKED  
DRAWN JGN  
CHECKED

3x 3/4" Granular or solid flux filled headed stud Automatic-ally end welded to the flange No. Required = 3147  
3 Shear Studs per Row. Typical

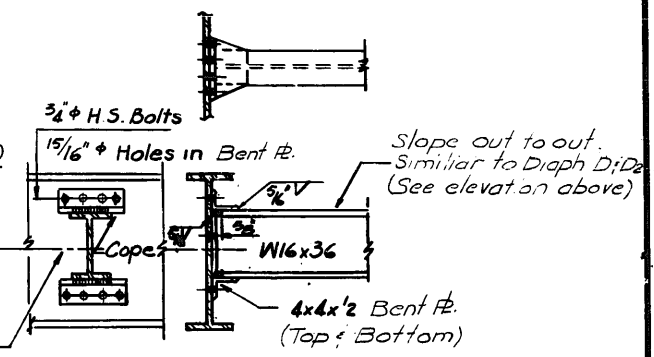
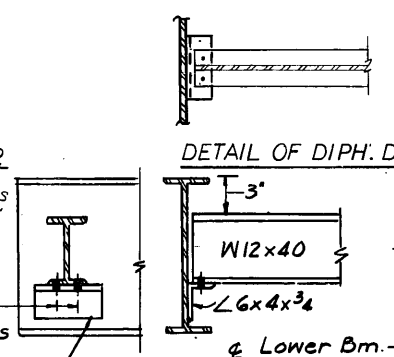
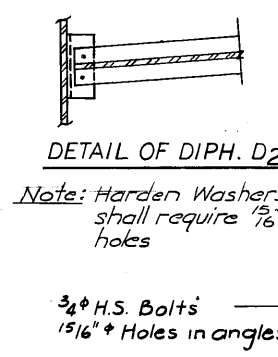
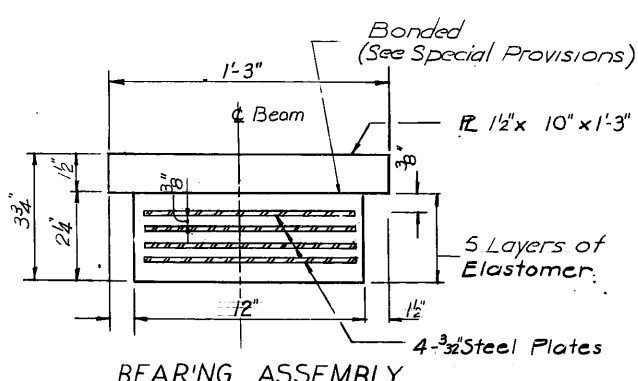
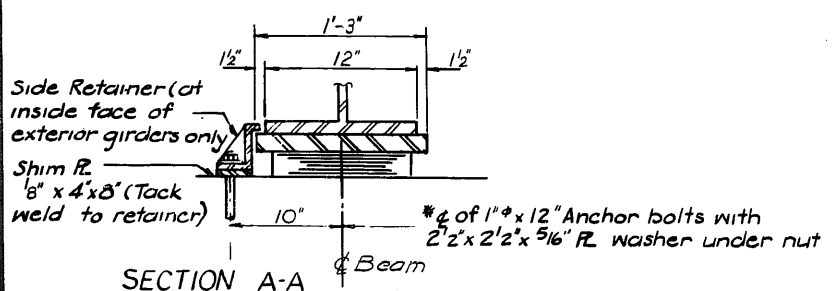
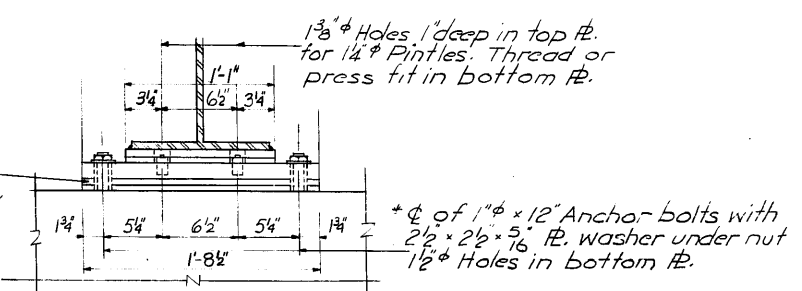
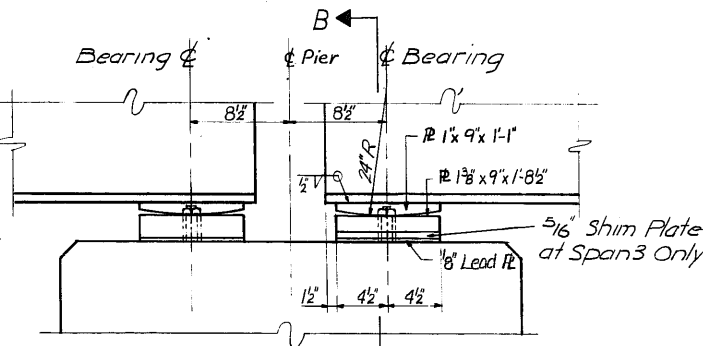
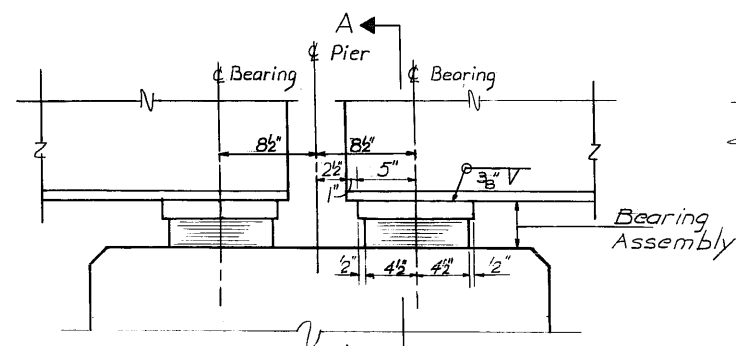
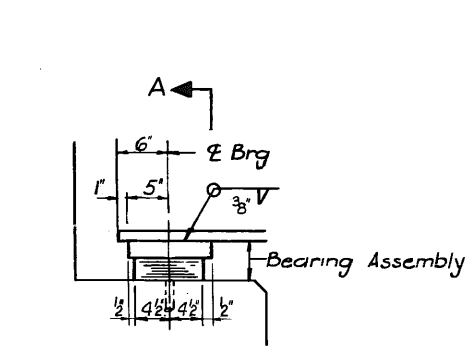
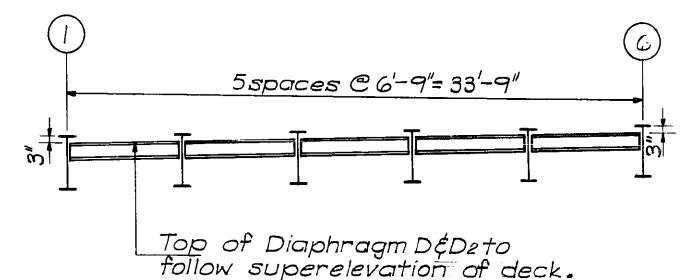
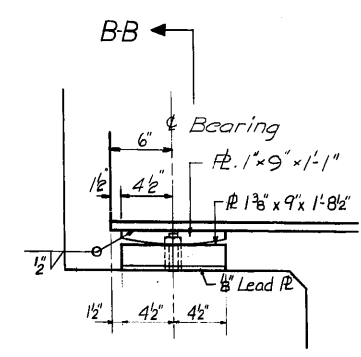
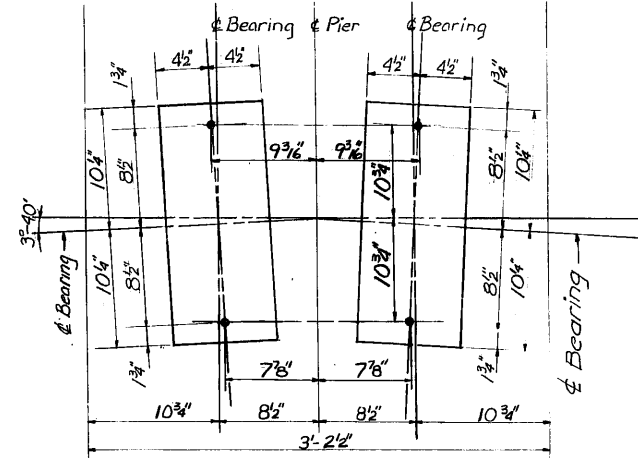
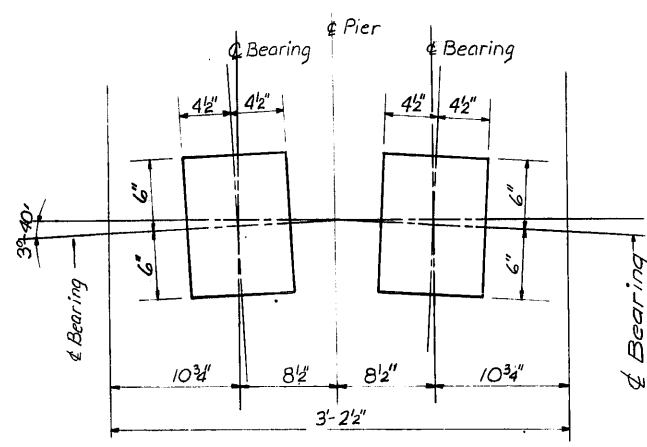


NOTE:  
• The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness, Zone 2. These Components are the tension flanges and webs of the wide flange beams.  
• For Diaphragm Details see Sheet 7  
• NTR Indicates Notch Toughness Requirement

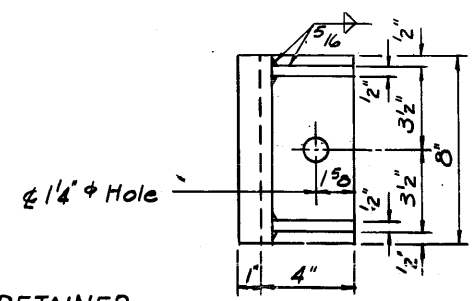
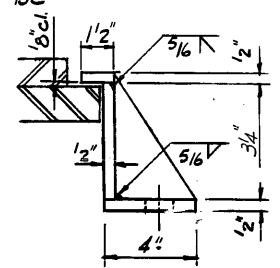
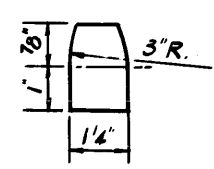
\*\*\*Includes weight of Steel Brg. Assembly Approx. wt of Fix Bearing Assembly = 2400 lbs. Quantity Elastomeric Expansion Bearings = 18

**STRUCTURAL STEEL  
STONE BRIDGE**  
FAUS. RTE. 3509 SHERIDAN ROAD  
SECTION 112-BR  
COOK COUNTY  
STATION 102+91.9

HANSEN, SCHNEEMAN & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
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Chicago, Illinois - 60604



\*Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.

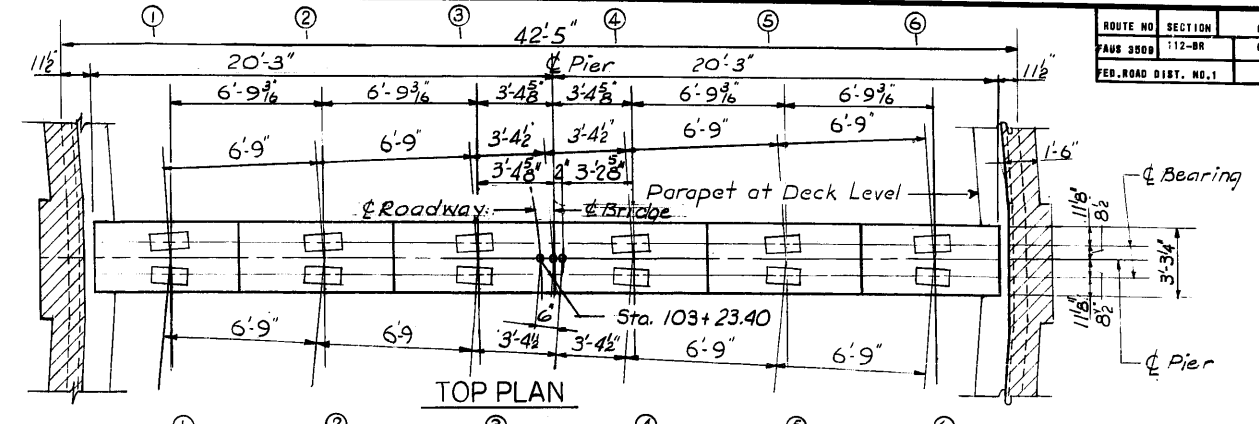
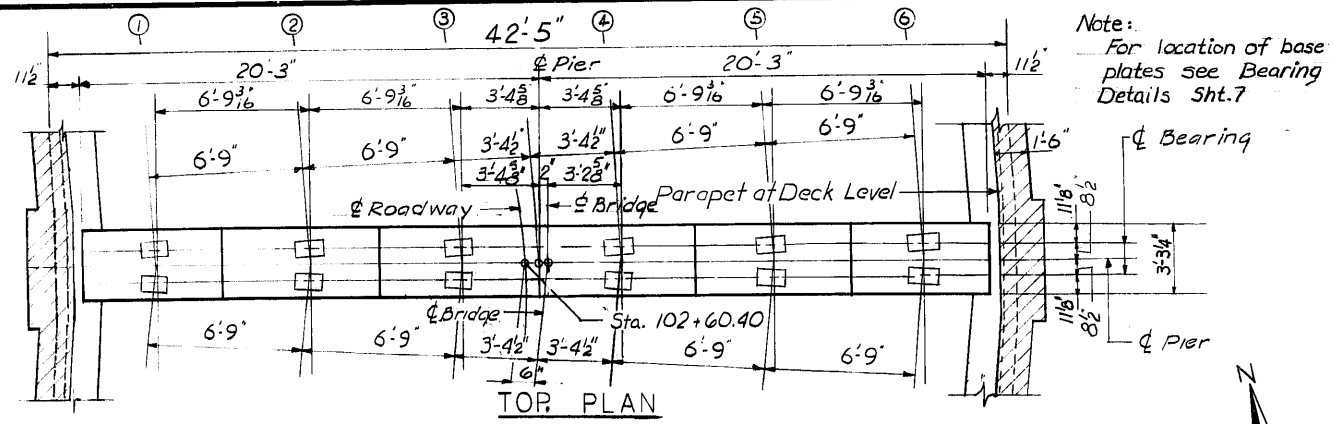


DESIGNED	S.C.N.
CHECKED	E.D.
DRAWN	S.K.
CHECKED	S.C.N.

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Chicago, Illinois - 60604

BEARING DETAILS	
STONE	BRIDGE
FAUS. RTE. 3509	SHERIDAN ROAD
SECTION	112-BR
COOK	COUNTY
STATION	102+91.9

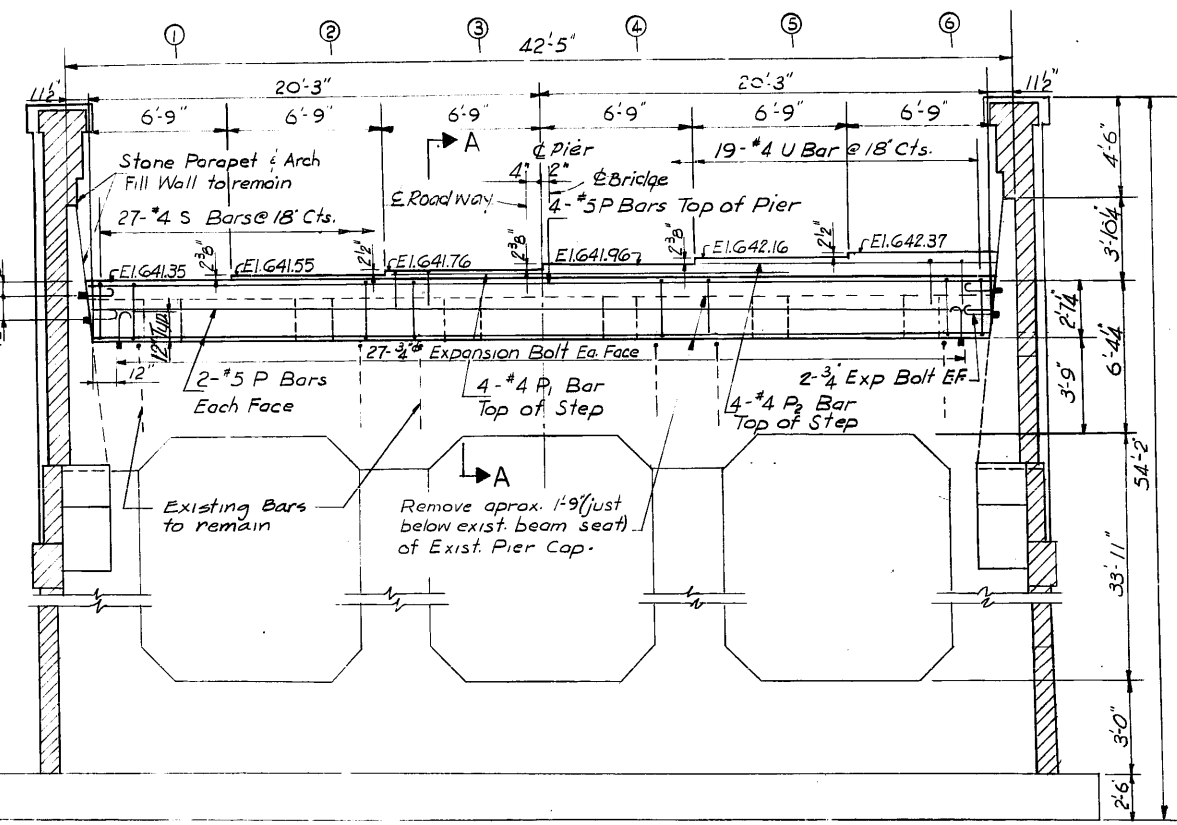




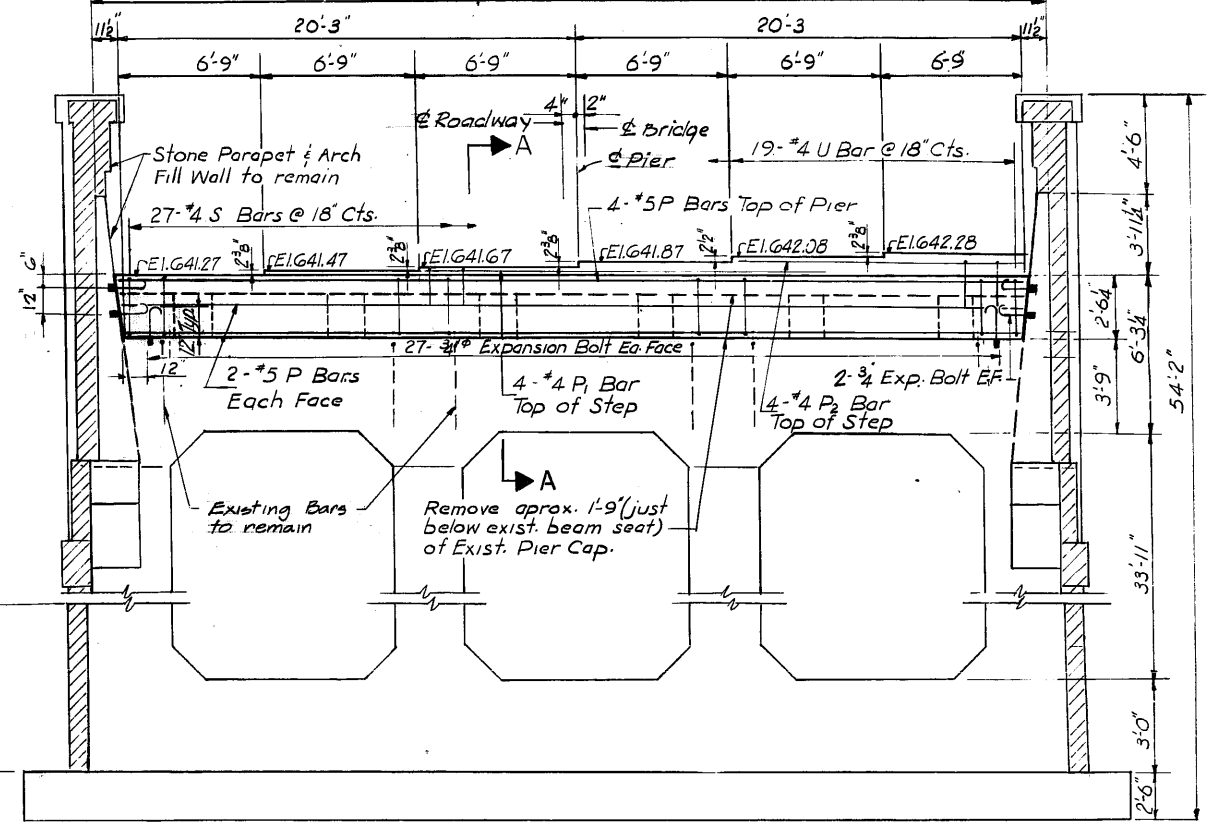
**BILL OF MATERIAL PIER NO. 1**

Bar	No.	Size	Length	Shape
P	6	5	40'-2"	
P <sub>1</sub>	4	4	14'-6"	
P <sub>2</sub>	4	4	13'-3"	
S	27	4	9'-5"	
U	19	4	5'-11"	

ITEM	UNIT	TOTAL
Reinforcement	Lbs.	570
Class "X" Concrete	Cu Yds.	15.6
Concrete Removal	Cu Yds.	9.0
Expansion Bolts 3/4"	Ea.	62



Replace Stone Masonry at N. Side  
Repair Stone Masonry

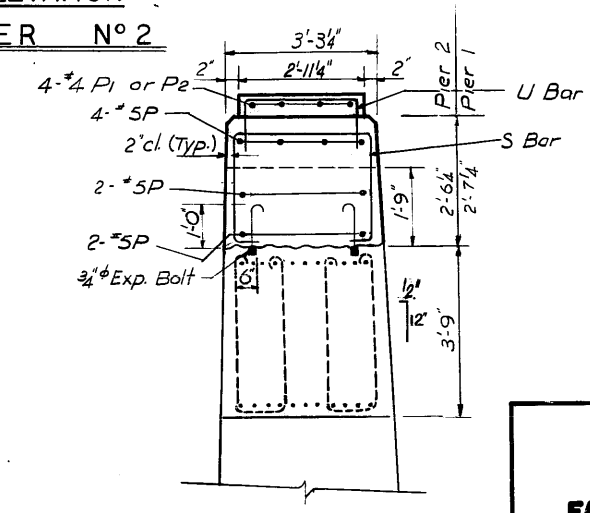


**BILL OF MATERIAL PIER NO. 2**

Bar	No.	Size	Length	Shape
P	6	5	40'-2"	
P <sub>1</sub>	4	4	14'-6"	
P <sub>2</sub>	4	4	13'-3"	
S	27	4	9'-5"	
U	19	4	5'-11"	

ITEM	UNIT	TOTAL
Reinforcement	Lbs.	570
Class "X" Concrete	Cu Yds.	15.1
Concrete Removal	Cu Yds.	9.0
Expansion Bolt 3/4"	Ea.	62

Note:  
Sand joint between new & existing concrete in accordance with Article 504.13 (a)(2)



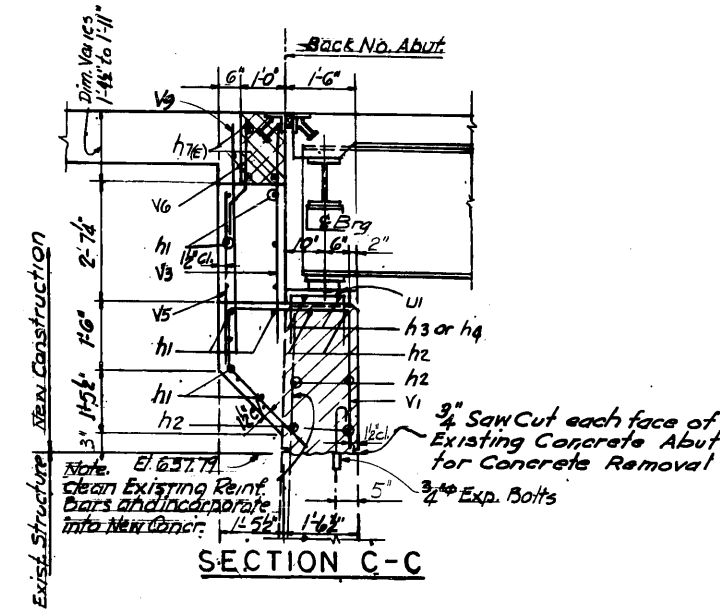
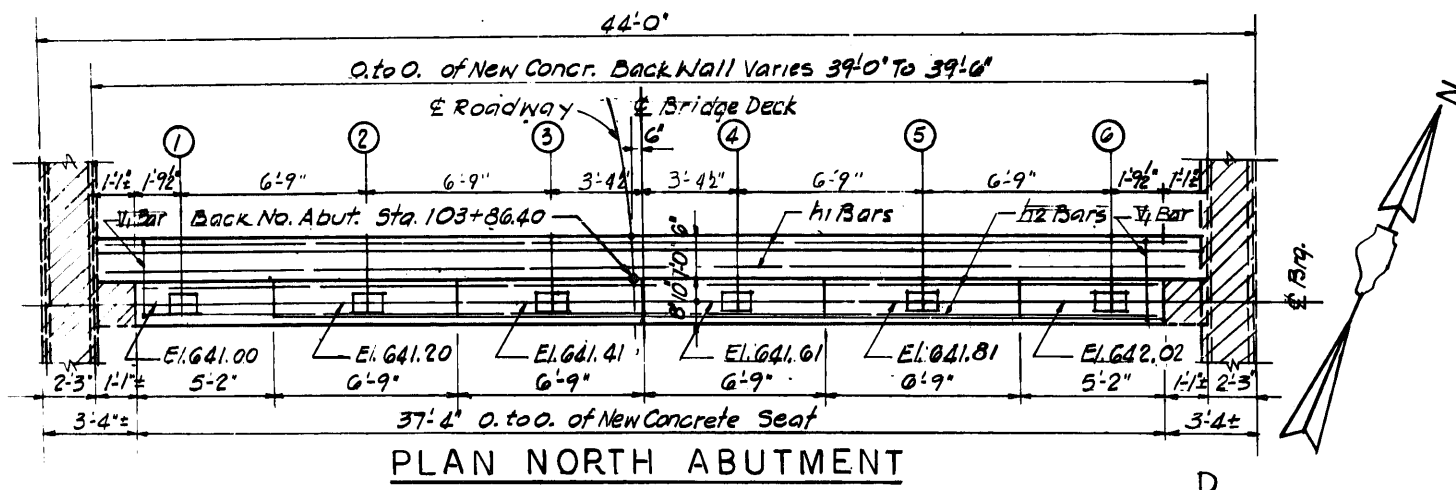
DESIGNED	S. C. N.
CHECKED	E. D.
DRAWN	K. C.
CHECKED	S. C. N.

**PIERS 1&2  
STONE BRIDGE**

**FAUS. RTE. 3509 SHERIDAN ROAD**

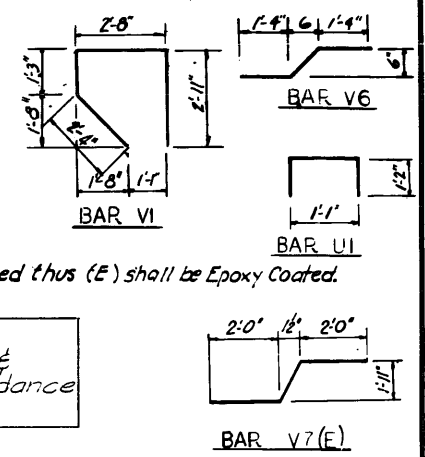
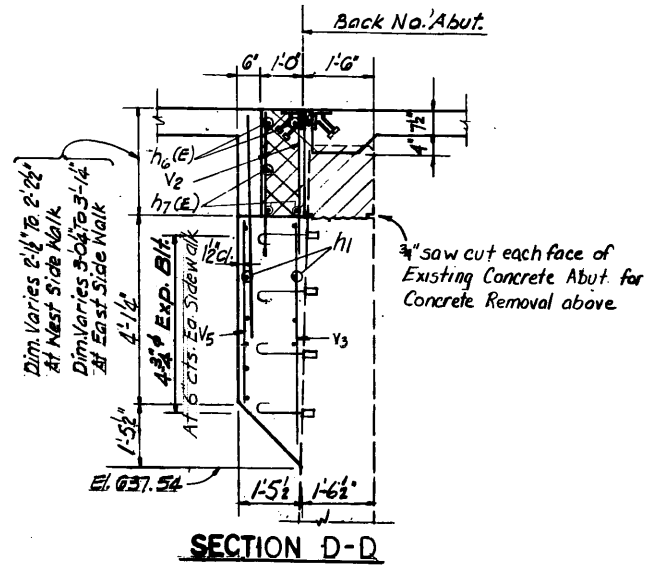
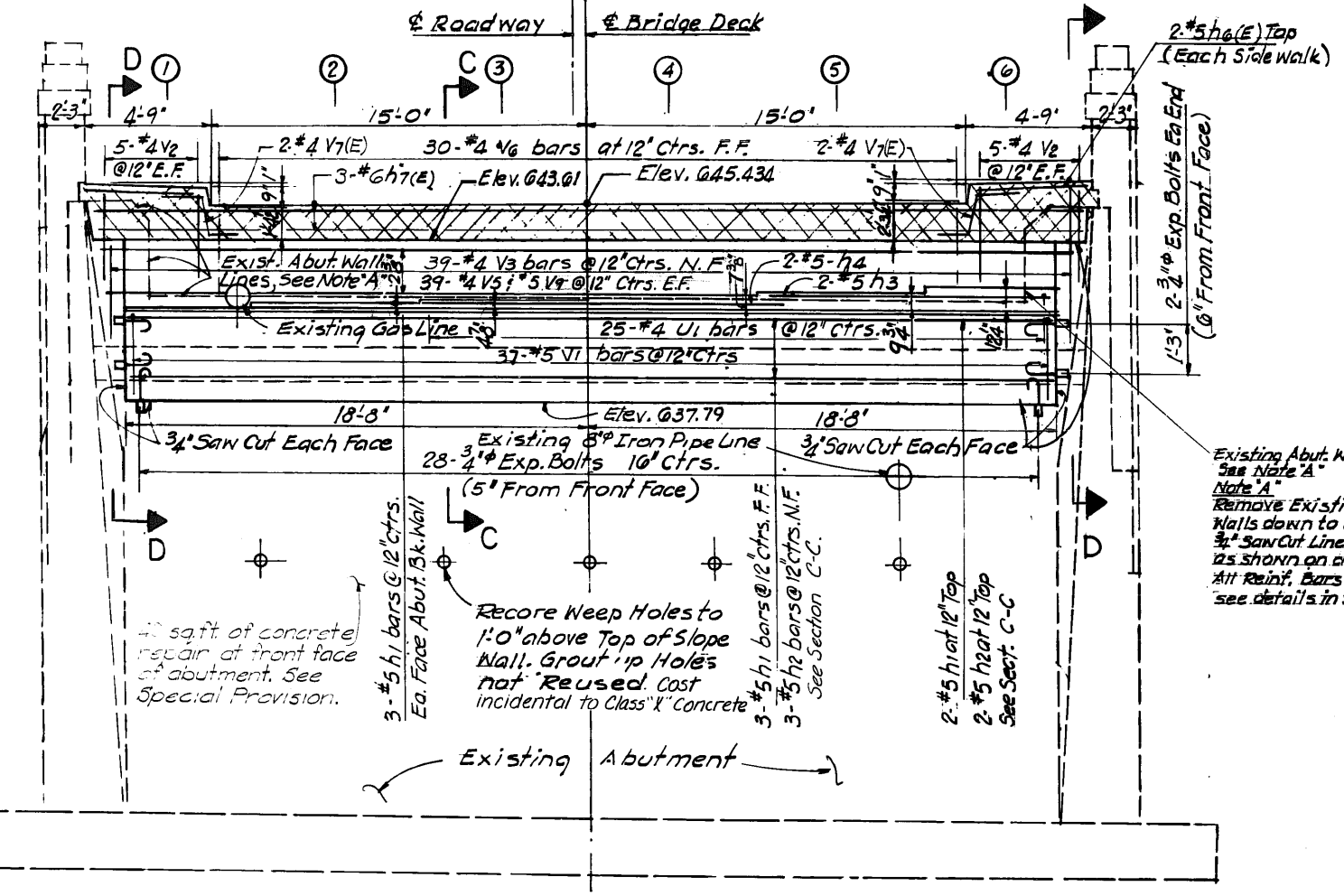
SECTION	112-BR
COOK	COUNTY
STATION	102+91.9

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BILL OF MATERIAL NO. ABUT.

Bar No.	Size	Length	Shape
h1	#5	39'-0"	—
h2	#5	37'-0"	—
h3	#5	11'-6"	—
h4	#5	15'-4"	—
h6(E)	#5	4'-5"	—
h7(E)	#6	39'-0"	—
V1	#5	9'-2"	□
V2	#4	4'-0"	—
V3	#4	5'-3"	—
V5	#4	3'-10"	—
V6	#4	3'-4"	—
V7(E)	#4	5'-11"	—
U1	#4	3'-5"	□
V9	#5	5'-0"	—
Reinforcement	Lbs.	1710	
Class X Concrete	Cu. Yds.	20.3	
Concrete Removal	Cu. Yds.	8.0	
3" Expansion Bolts	Each	40	
Structure Excavation	Cu. Yds.	14.7	
Porax Granular Emb.	Cu. Yds.	94.1	
Reinf. Epoxy Coated	Lbs.	270	
Repair Conc. Structure	Sq. Ft.	40	

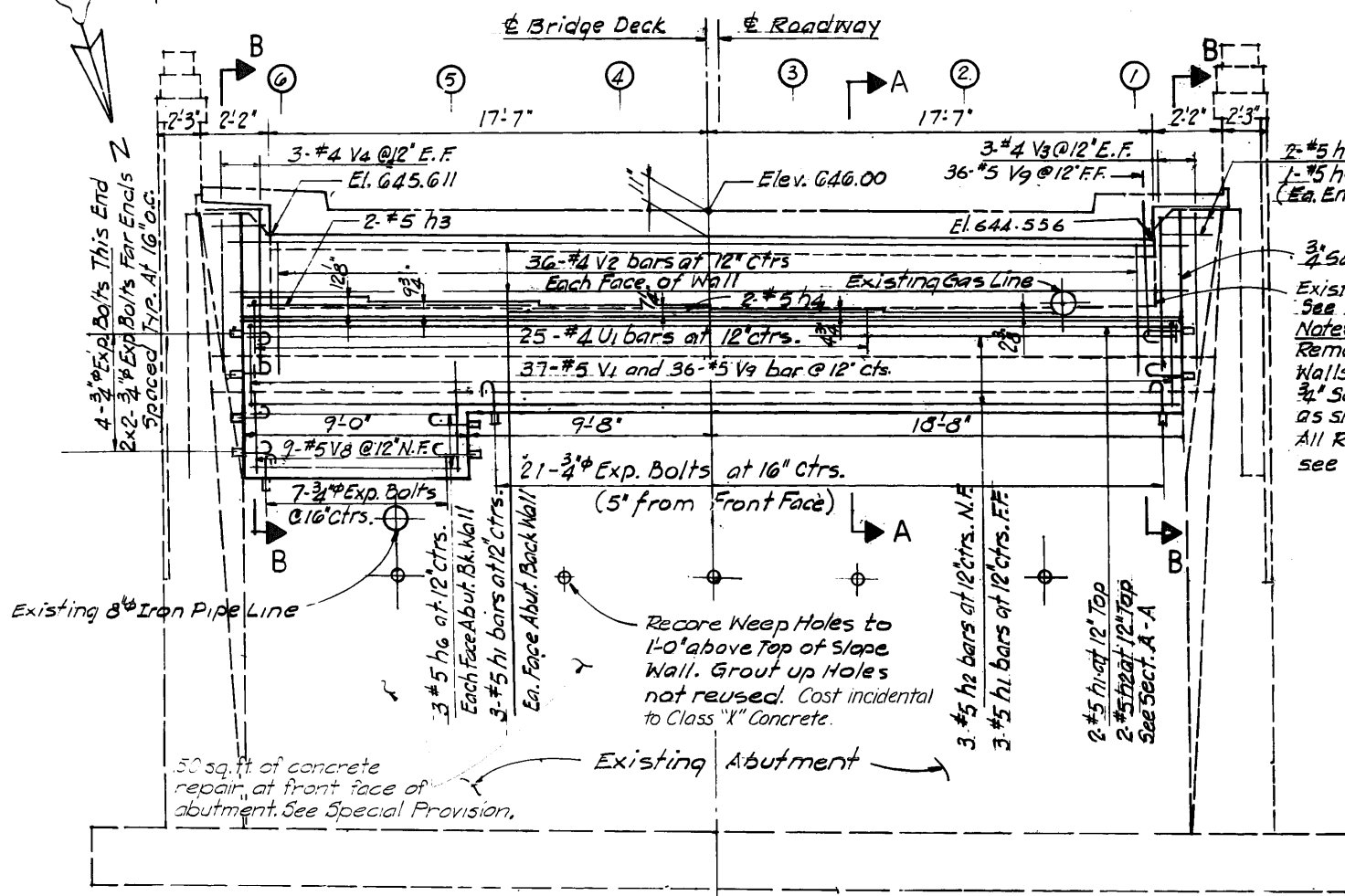
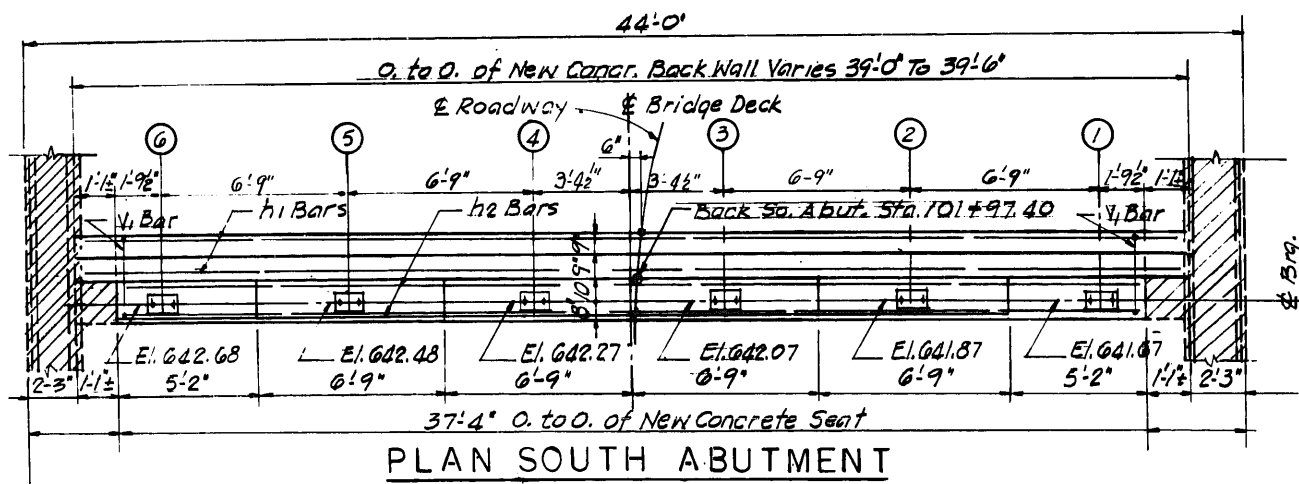


Note: Bond Joint between new & existing concrete in accordance with Article 504.13(a).

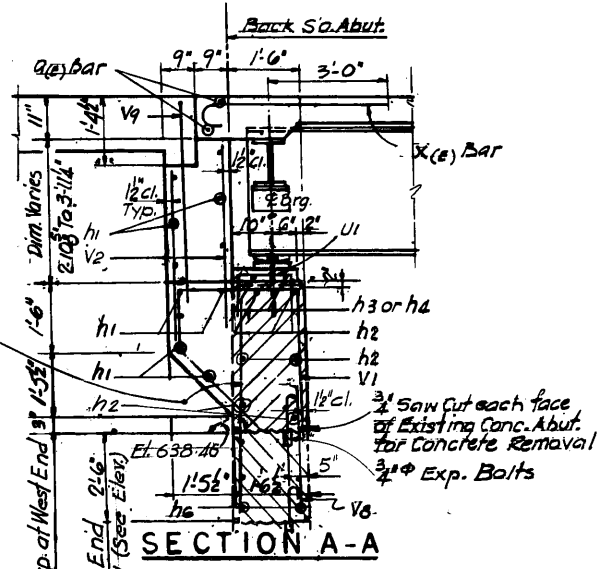
DESIGNED	AS
CHECKED	S.N.
DRAWN	A.S.
CHECKED	S.N.

**NORTH ABUTMENT  
STONE BRIDGE**  
FAUS. RTE. 3509 SHERIDAN ROAD  
SECTION 112-BR  
COOK COUNTY  
STATION 102+91.9

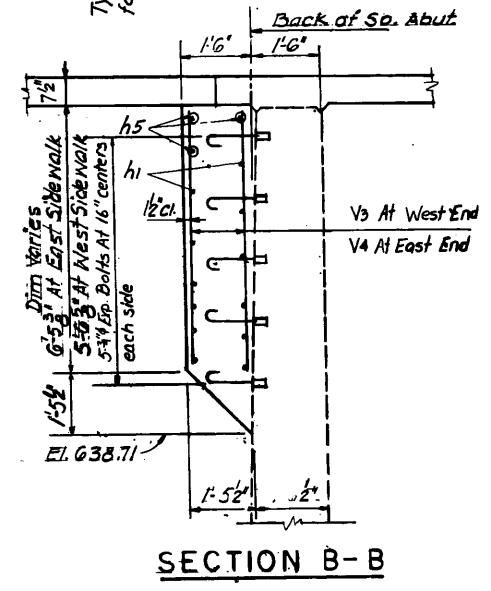
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CONSULTING ENGINEERS  
223 West Jackson Blvd., Suite 703  
Chicago, Illinois - 60604



Note:  
Clean Existing Reinf. Bars and incorporate into New Concrete

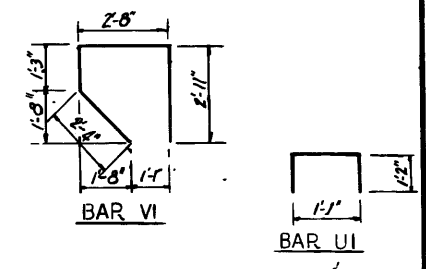


Note:  
Remove Existing Abutment Walls down to and between 3/4" Saw Cut Lines each face as shown on drawings. All Reinf. Bars are remain, see details in Sections.



**BILL OF MATERIAL SO. ABUT.**

Bar	No.	Size	Length	Shape
h1	11	#5	39'-0"	
h2	8	#5	37'-0"	
h3	2	#5	11'-6"	
h4	2	#5	15'-4"	
h5	6	#5	1'-10"	
h6	6	#5	8'-4"	
V1	37	#5	9'-2"	□
V2	72	#4	4'-3"	
V3	6	#4	5'-3"	
V4	6	#4	6'-3"	
V8	9	#5	4'-0"	
U1	25	#4	3'-5"	□
V9	36	#5	5'-0"	
Reinforcement		Lbs.	1460	
Class "X" Concrete		Cu. Yds.	13.3	
Concrete Removal		Cu. Yds.	8	
3/4" Expansion Bolt		Each	39	
Structure Excavation		Cu. Yds.	128.2	
Porous Granular Emb.		Cu. Yds.	82.6	
Repair conc. structure		Sq. Ft.	150	



Note:  
Bond joints between new & existing concrete in accordance with Article 504.13 (a) (2).

DESIGNED	A.S.
CHECKED	E.D.
DRAWN	A.S.
CHECKED	E.D.

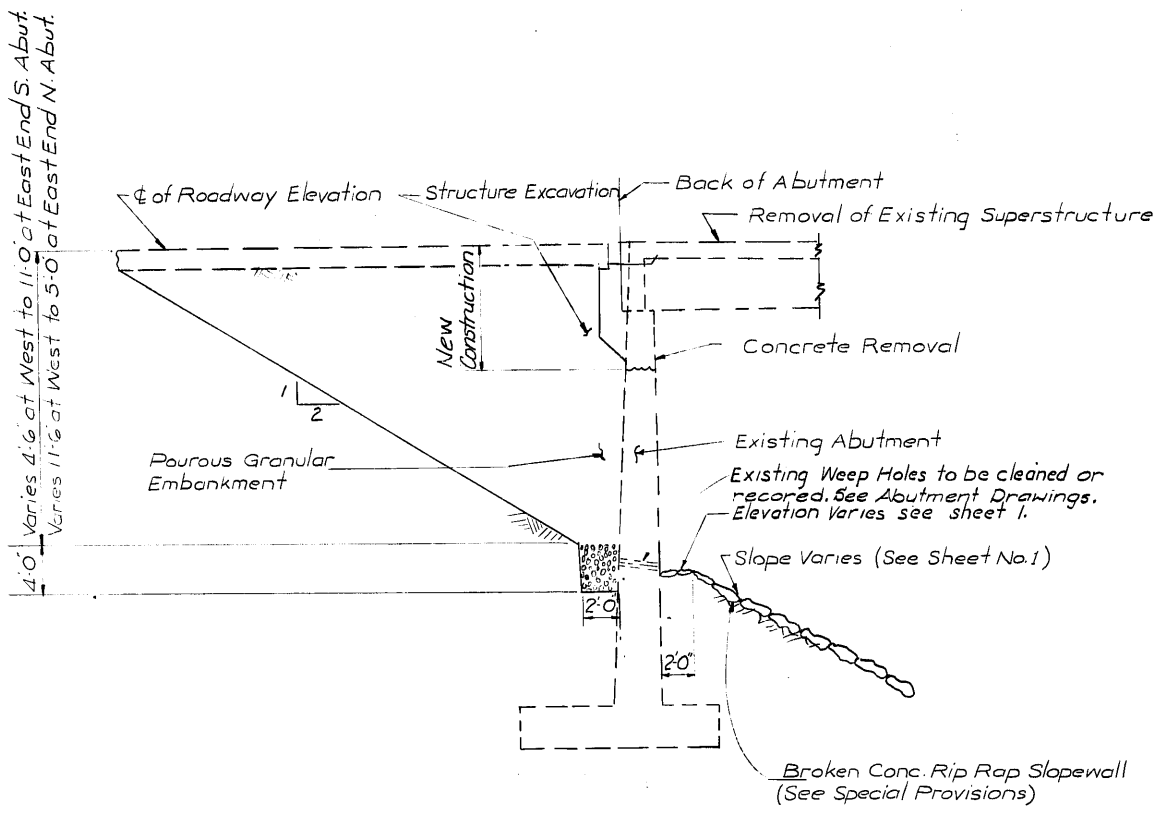
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Chicago, Illinois - 60604

**SOUTH ABUTMENT  
STONE BRIDGE**

**FAUS. RTE. 3509 SHERIDAN ROAD**

SECTION	112-BR
COOK	COUNTY
STATION	102+91.9

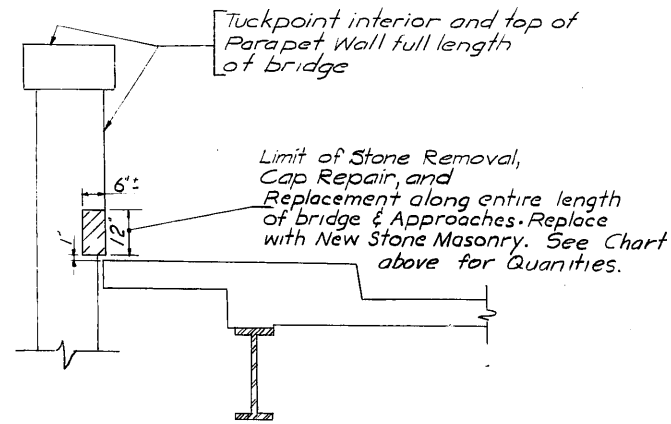
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FD-3509	112-BR	COOK	45	45
FED. ROAD DIST. NO. 1	ILLINOIS PROJECT		SHEET NO. 11 OF 11 SHEETS	



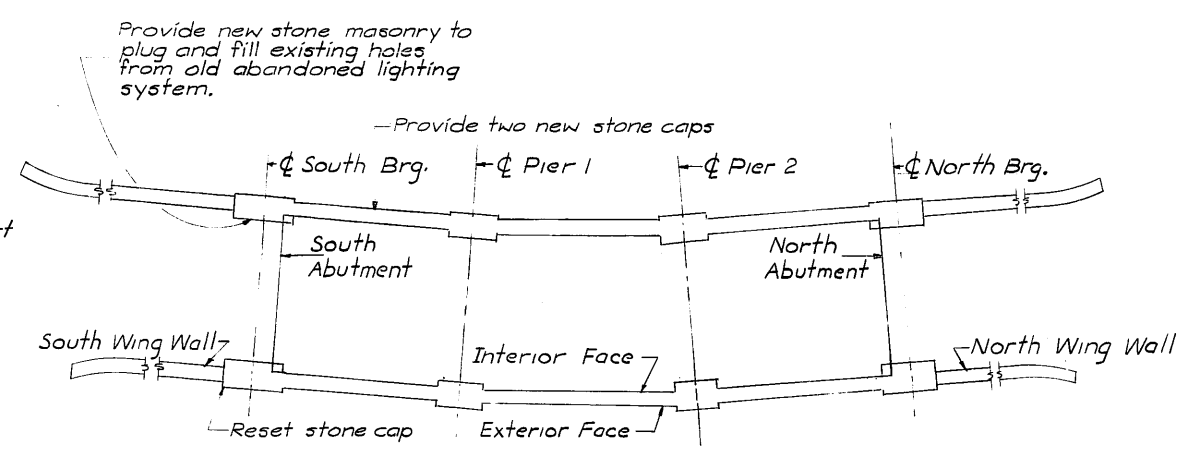
SECTION SHOWING LIMIT OF EXCAVATION  
NORTH & SOUTH ABUTMENT

STONE MASONRY REPAIR					
	Stone Removal & Replacement & Cap Repair	New Stone Replacement	Tuckpointing		
	CU. YDS.	CU. YDS.	LIN. FT.		
East Masonry Wall	South Wing Wall	0.1	South Wing Wall	0.1	Exterior Face 2280
	North Wing Wall	0.1	North Wing Wall	0.1	
	Pier 1	0.2	Pier 1	0.1	Interior Face 5424
	Pier 2	0.3	Pier 2	0.1	
	Parapet at Deck	3.0	Parapet at Deck	1.9	
	<b>Total</b>				
West Masonry Wall	South Wing Wall	0.1	South Wing Wall	0.1	Exterior Face 2784
	North Wing Wall	0.2	North Wing Wall	0.1	
	Pier 1	0.2	Pier 1	0.1	Interior Face 6600
	Pier 2	2.6	Pier 2	0.6	
	Arch 1	0.2	Arch 1	0.1	
	Parapet at Deck	4.6	Parapet at Deck	3.7	
<b>Total</b>					
		11.60	7.0	17088	

Note:  
See Plan and Stone Parapet Repair Detail below



STONE PARAPET REPAIR DETAIL  
Note: See chart above for location & quantities



PLAN  
See chart above for location & quantities



DESIGNED	SCW
CHECKED	A.S.
DRAWN	K.C.
CHECKED	A.S.

HANSEN, SCHNEEMAN & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
223 West Jackson Blvd., Suite 703  
Chicago, Illinois - 60604

**MISCELLANEOUS DETAILS**  
**STONE BRIDGE**  
**F.A.U.S. RTE. 3509 SHERIDAN ROAD**

SECTION	112-BR
COOK COUNTY	
STATION	102+91.9