STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 57 AT 175th STREET THIN CONCRETE OVERLAY (STRUCTURE NO. 016-1095) SECTION: 0809-1014HB-1 **COOK COUNTY** C-91-280-97

THIS IMPROVEMENT IS LOCATED IN THE CITY OF COUNTRY CLUB HILLS

FULL SIZE PLANS NAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT

ON DEALEST PLANS, THE ABOVE SCALES MAY BE USED.

JOHN UTENY LOCATION RECOMMATION FOR ECCAVATION

CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

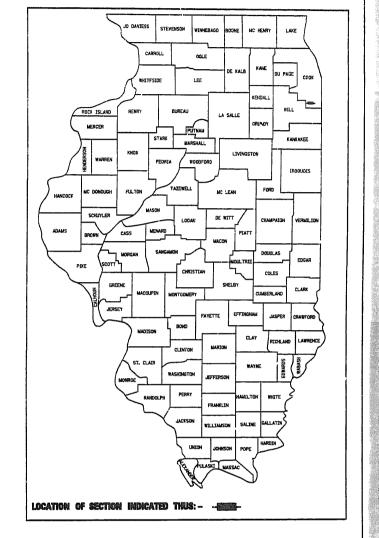
POSTED SPEED LIMIT = 45MPH 1995 ADT = 4,400 R. 13 E. SCOPE OF WORK: **STRUCTURE NO. 016 - 1095** IMPROVEMENT ENDS CONCRETE BRIDGE DECK SCARIFICATION, BRIDGE DECK CONCRETY: OVERLAY, DECK SLAB REPAIR AND APPROACH SLAB REPAIR JACK AND REMOVE EXISTING BEARINGS. IMPROVEMENT BEGINS STA 21+56

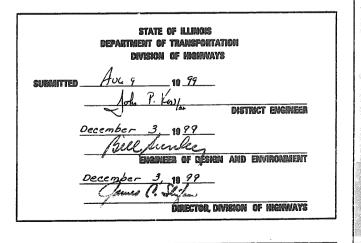
> NET LENGTH OF IMPROVEMENT = 1107 FEET = 0.210 GROSS LENGTH OF IMPROVEMENT:: 1107 FEET = 0.210 MILES

POSTISTI TOMORSKI

* 0809-1014HB-1

D-91-280-97





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 63375

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STA.32+62

FRANKFORT

TRAFFIC DATA:

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F.A.I. RTE.	SECTION	C	OUNTY		TOTAL	SHEET NO.
57	57		COOK		24	2
STA.		TO	STA.			
FED. ROA	D DIST. NO. 1	ILLINOIS	FED.	AID	PROJECT	

• 0809-1014HB-1

D-91-280-97

INDEX OF SHEETS

SHEET NO. DESCRIPTION COVER SHEET INDEX OF SHEETS, STATE STANDARD AND GENERAL SUMMARY OF QUANTITIES DETOUR PLAN ROADWAY AND PAVEMENT MARKING PLANS COOK COUNTY HIGHWAY DEPARTMENT ROADWAY PLAN (FOR INFORMATION ONLY) 7-17 DISTRICT ONE FREEWAY STANDARD 18 ONE LANE CLOSURE DISTRICT ONE FREEWAY STANDARD TWO LANE CLOSURE TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) 22 TYPICAL PAVEMENT MARKINGS TRAFFIC DETAILS FOR FREEWAY 23 SHOULDER CLOSURES TEMPORARY INFORMATION SIGNING 24

STATE STANDARD

420001-02	PAVEMENT JOINTS
420701	PAVEMENT FABRIC
442101-02	CLASS B PATCHES
701411	LANE CLOSURE MULTILANE, AT ENTRANCE, OR EXIT RAMP FOR SPEED > 45 MPH
702001-0f	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS

781001-02 TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS

000001-03 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS DECLIDED). NOTIFICATION IS REQUIRED)

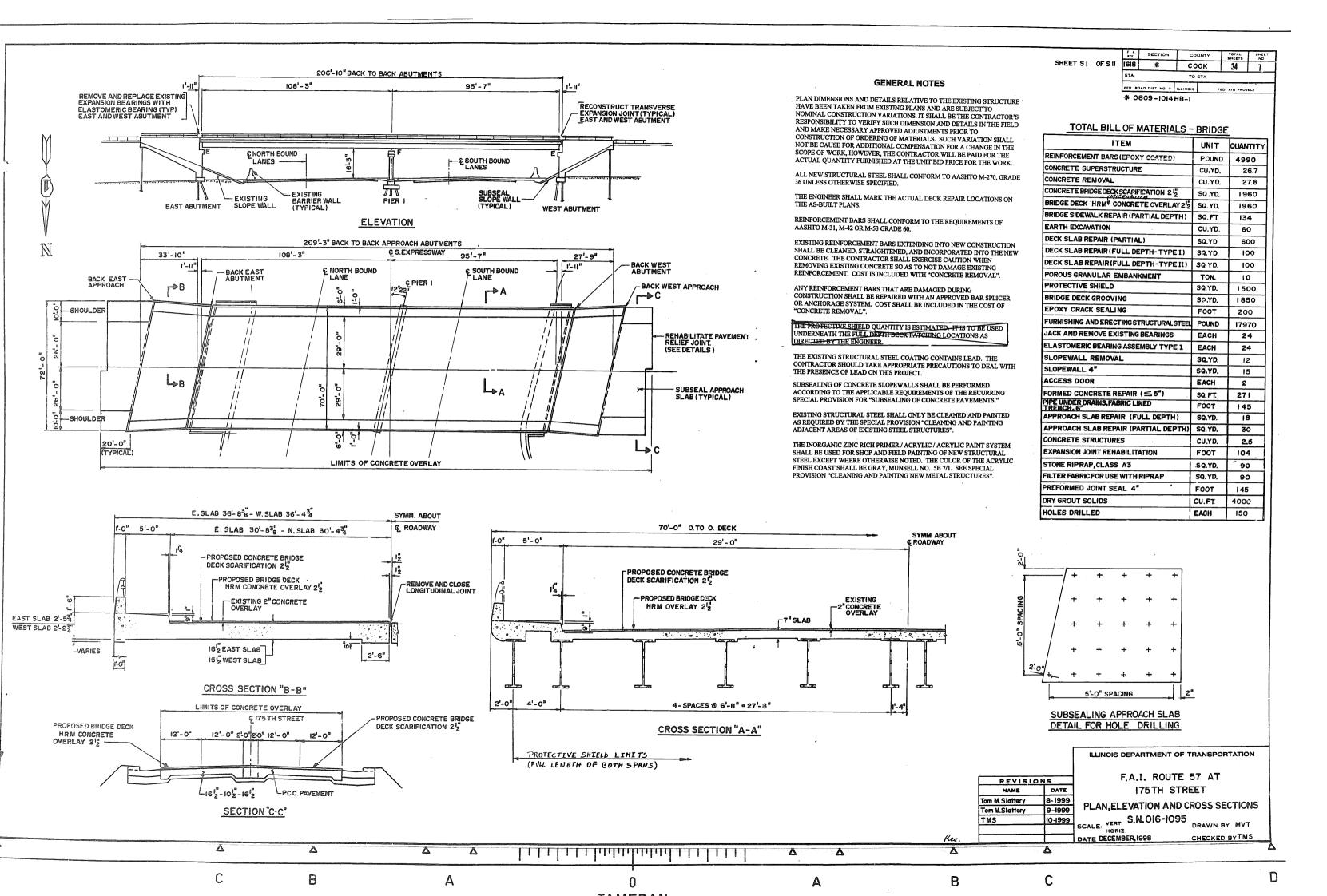
THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO

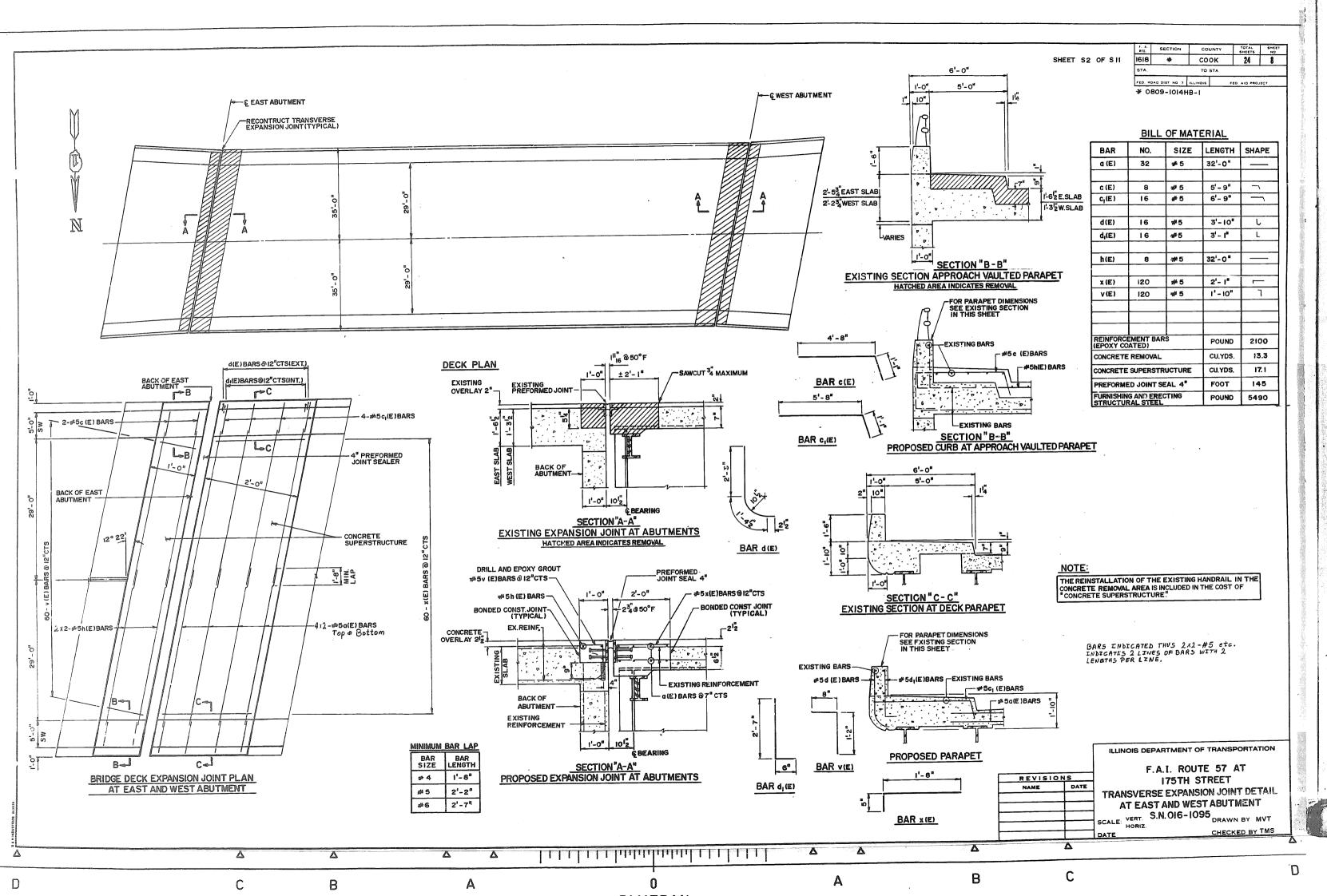
THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

USE NO. 25 (#8) EPOXY-COATED TIE BARS CONFORMING TO ART. 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR AS SHOWN ON STATE STANDARD 420001 AND FOR TIEING PC CONCRETE WIDENING TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED. CONSTRUCTED.

> ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 57 AT 175 TH STREET INDEX, STATE STANDARDS, & GENERAL NOTES SCALE: VERT. DRAWN BY DATE 10/14/99 CHECKED BY

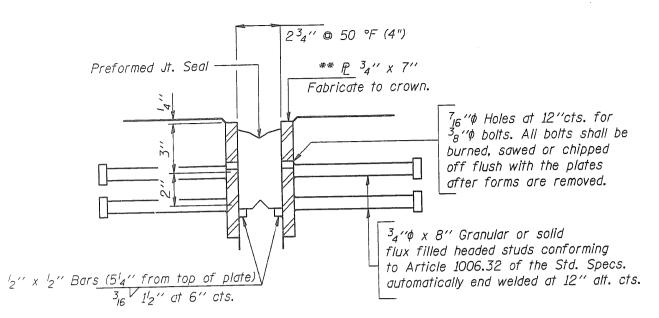
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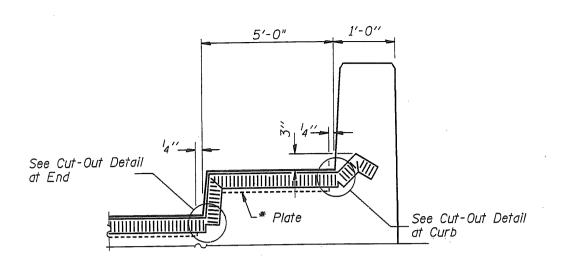


SHEET S3 OF S11

	PA 1957, NA.	NUMBER FIRE AND PROJECT				
STA.		TO	STA.			
1618	0809-1014H	5-1	CODK	24	9	
F. A. Z.	SECTION		COUNTY	TOTAL SMETS	SIGNAT	







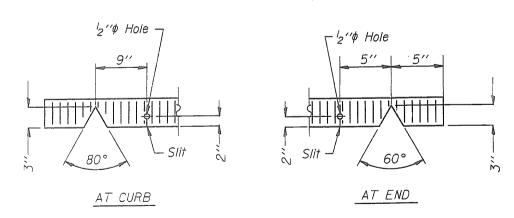
TYPICAL END OF SEAL TREATMENT

*Cut retainer bars in sidewalk 6" short of curb face

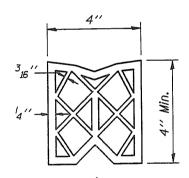
NOTES:

** Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be ³₁₆". Seal space with Silicone Sealant suitable for Structural Steel.

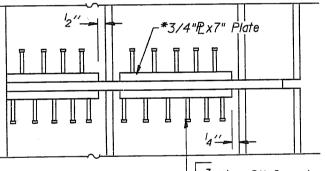
After fabrication all surface of the steel plates sall be given one shop coat of paint specified for structural steel. No field painting required.



SEAL CUT-OUT DETAIL

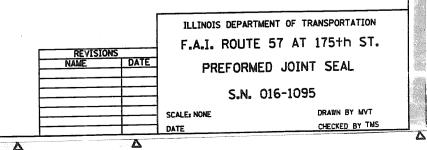


PREFORMED JOINT SEAL (4")



³₄"φ x 8" Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs. automatically end welded at 12" alt. cts.

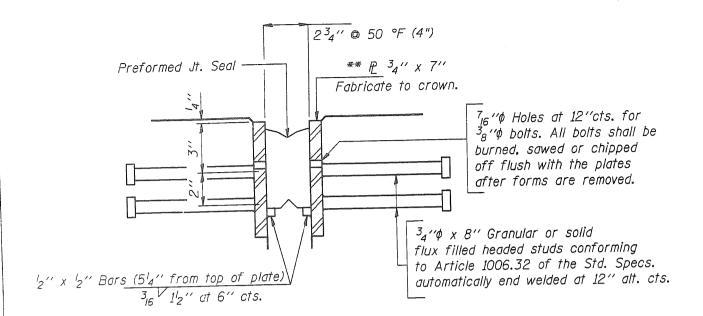
PLAN

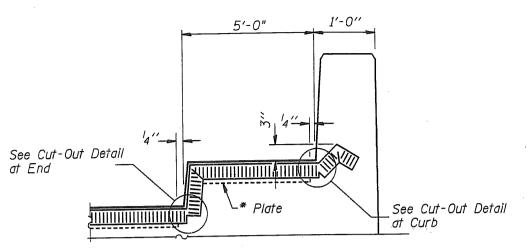


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| Fr. A. 1 | SECTION | COUNTY | TOTAL SEETS | 1618 | OB09-1014HB-1 | COOK | 24 COUNTY TOTAL SEETS





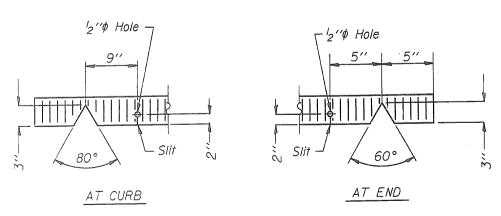
TYPICAL END OF SEAL TREATMENT

*Cut retainer bars in sidewalk 6" short of curb face

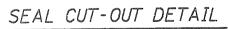
NOTES:

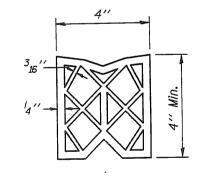
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After fabrication all surface of the steel plates sall be given one shop coat of paint specified for structural steel. No field painting required.

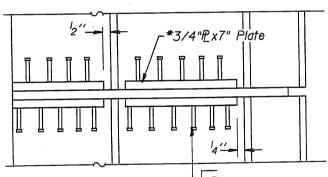


4" PREFORMED JOINT SEAL



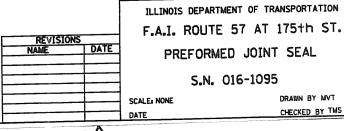


PREFORMED JOINT SEAL (4")



 3_4 " ϕ x 8" Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs. automatically end welded at 12" alt. cts.

PLAN

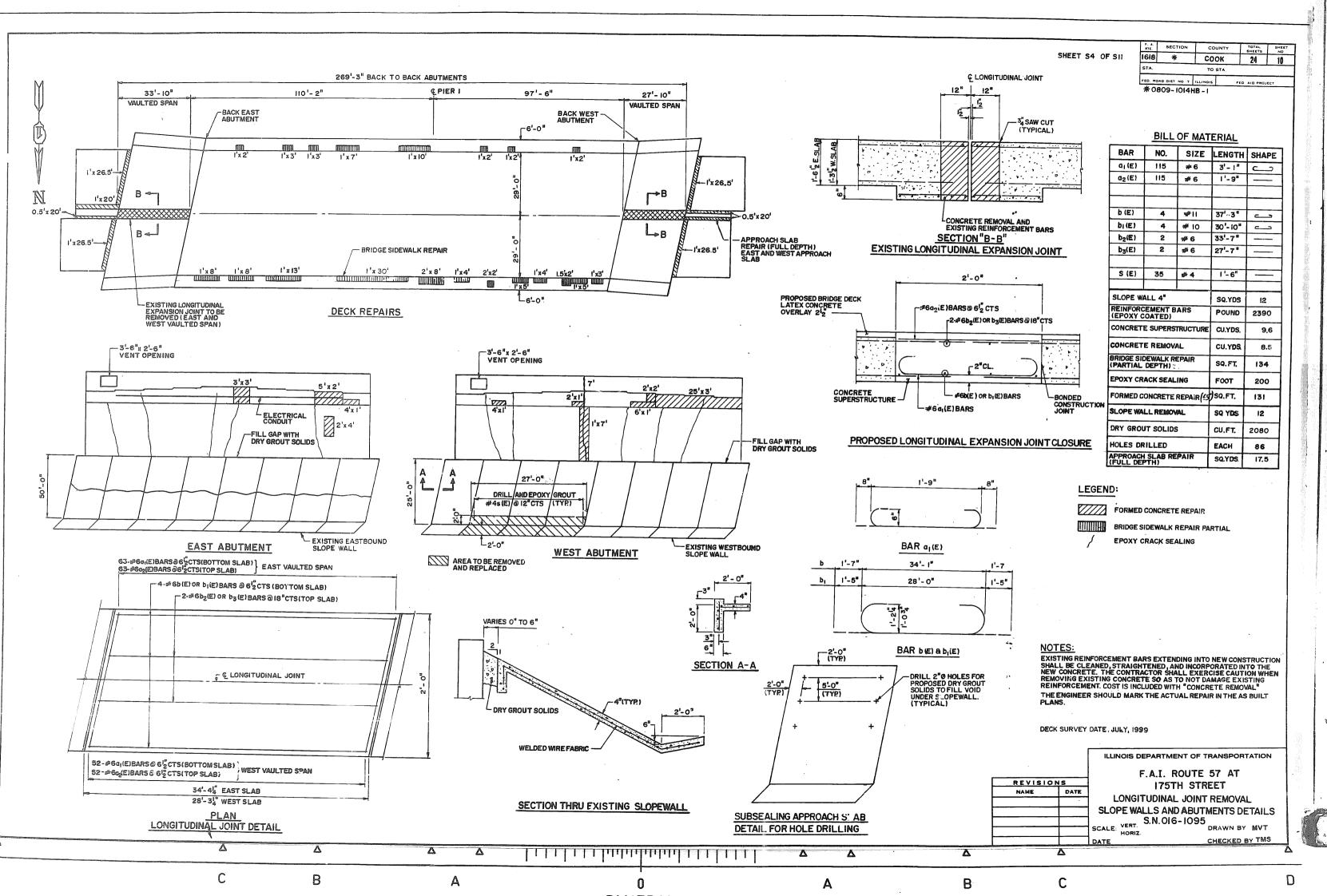


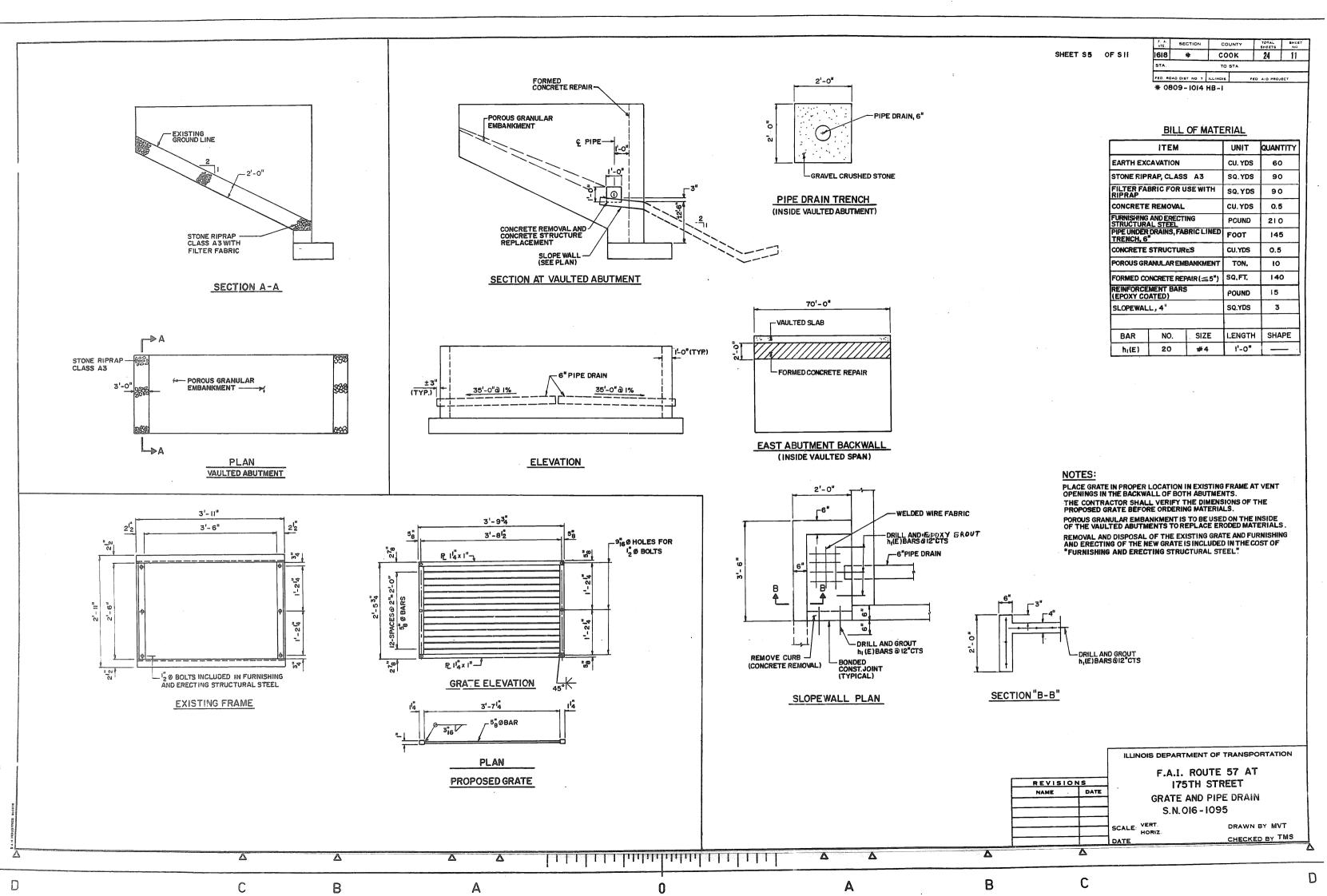
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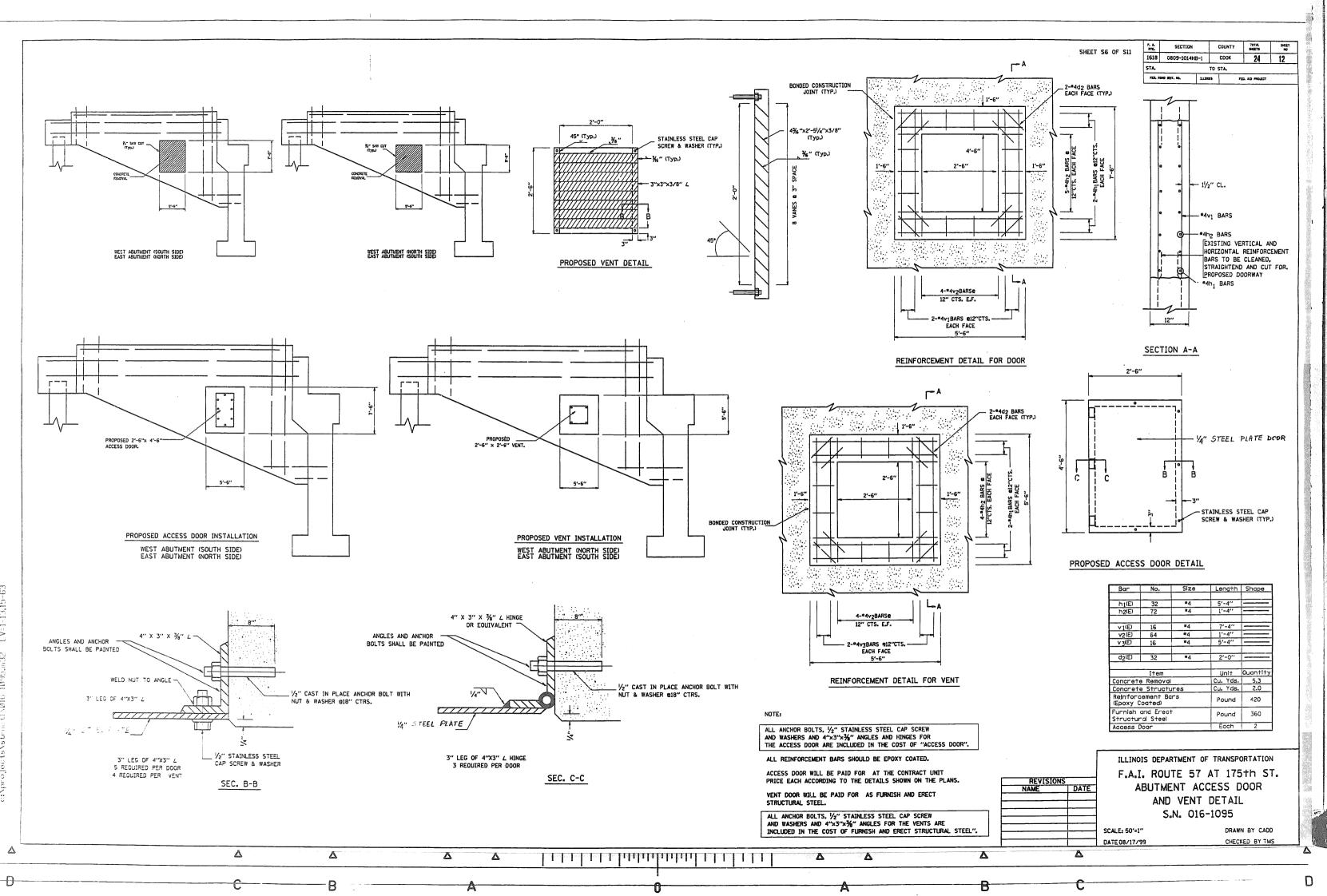
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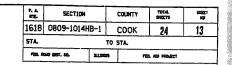
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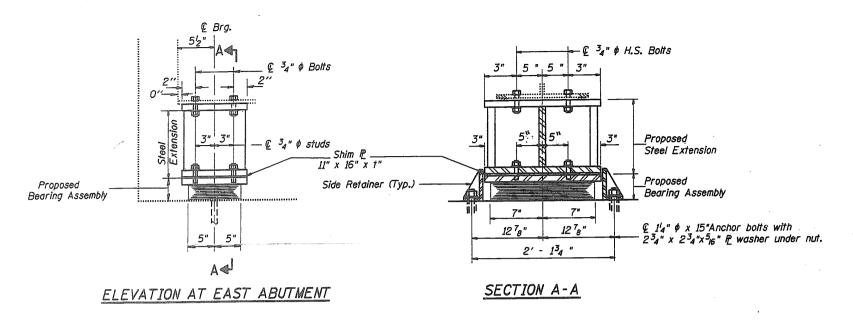
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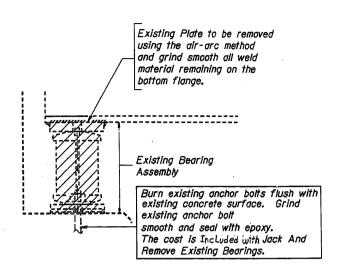




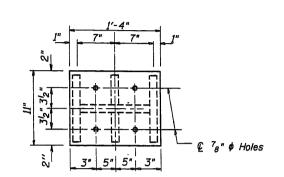






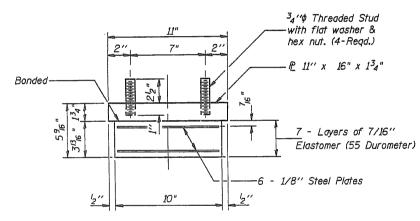


EXISTING BEARING REMOVAL



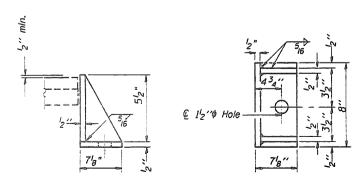
PLAN TOP AND BOTTOM PLATE

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note: Saim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

NOTES:

New side retainers, shim plates, connection bolts, Steel extension and anchor botts are included in Furnishing and Erecting Structural Steel.

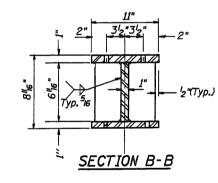
 $^{\rm I\! S}_{\rm I\! G}$ " diameter holes are to be drilled in the field in the bottom of existing beams. Cost included with Furnishing and Erecting Structural Steel.

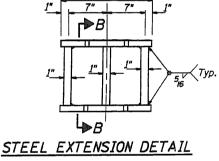
See sheet S9 for Anchor Bolt installation.

Contractor shall submit jacking details for approval by the Engineer. Minimum Jacking Capacity = 52 Tons.

Prior to ordering any material, the contractor shall verify in the field all bearing heights and shim plate thickness dimensions

Diaphragm removal and replacement may be required to racilitate dritting holes in the bottom flange for bearing attachment. Cost incidental to Furnishing and Erecting Structural Steer.





GIRDER REACTIONS

		····
RDL	(K)	48.3
RLL	(K)	40.4
Imp.	(K)	8.6
R (Total)	(K)	97.3

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Furnishing And Erecting Structural Steel	lbs.	2870
Jack And Remove Existing Bearings	Each	12

SHIM PLATE "+" DIMENSIONS

GIRDER	1	2	3	4	5	6	7	8	9	10	11	12
"†"	0	0	% "	%″	5⁄6″	Ŋ _{i6} "	%6 <i>''</i>	%"	3⁄8"	%6"	0	0

See sheet S10 for girders.

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 57 AT 175th ST. ELASTOMERIC BEARING DETAIL EAST ABUTMENT S.N. 016-1095

SCALE: 50'=1" DATE 09/13/99 CHECKED BY TMS

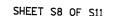
1-2-F1 2-26-93

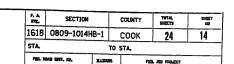
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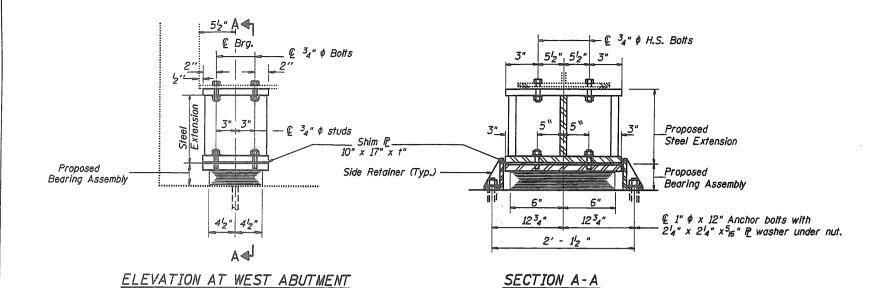
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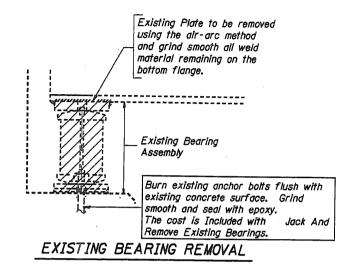
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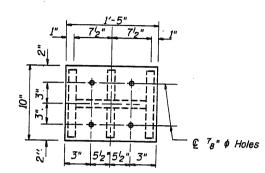
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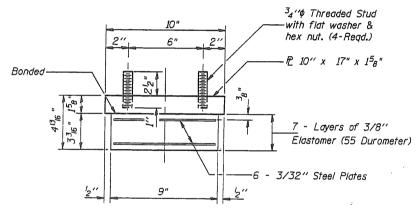






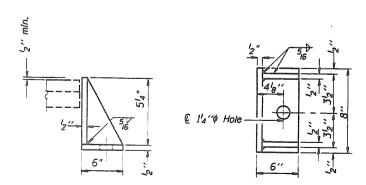
PLAN TOP AND BOTTOM PLATE

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

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NOTES:

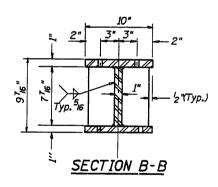
New side retainers, shim plates, connection bolts, Steel extensions and anchor bolts are Included in Furnishing and Erecting Structural Steel.

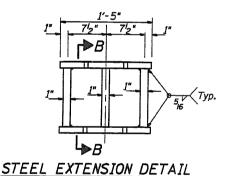
B_R " diameter holes are to be drilled in the field to the bottom of existing beams. Cost included with Furnishing and Erecting Structural Steel.

See sheet S9 for Anchor Bolt installation. Contractor shall submit jacking details for approval by the Engineer. Minimum Jacking Capacity = 45 Tons.

Prior to ordering any material, the contractor shall verify in the field all bearing heights and shim plate thickness

Diaphragm removal and replacement may be required to facilitate drilling holes in the bottom flange for bearing attachment. Cost incidental to Furnishing and Erecting Structural Steel".





GIRDER REACTIONS

RDL	(K)	39.2
RLL	(K)	39.9
Imp.	(K)	9.0
R (Total)	(K)	88.1

* BILL OF MATERIAL

Control of the Contro		
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Furnishing And Erecting Structural Steel	lbs.	2840
Jack And Remove Existing Bearings	Each	12

SHIM PLATE "+" DIMENSIONS

GIRDER	1	2	3	4	5	6	7	8	9	10	11	12
" † "	0	0	%"	5⁄8″	5/s″	Ŋ ₆ "	%6 "	%"	3∕8"	%6"	0	0

See sheet S10 for girders.

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 57 AT 175th ST. ELASTOMERIC BEARING DETAIL WEST ABUTMENT S.N. 016-1095

SCALE: 50'=1"

DRAWN BY CADD CHECKED BY TMS

I-2-E1 2-26-93

1095.m32 LV=1-13,15-63

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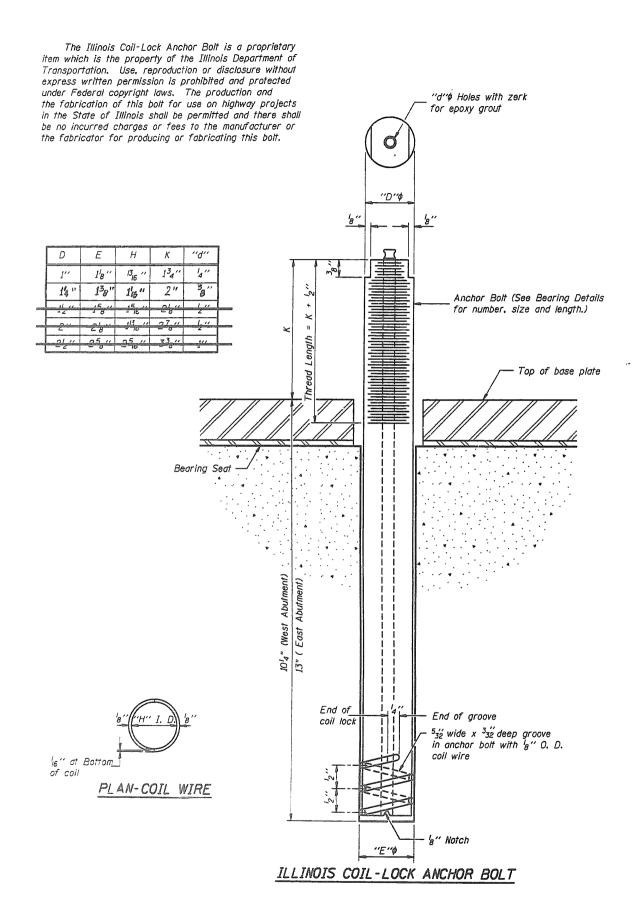
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DATE 09/13/99

SHEET S9 OF S11

P. A. L. COUNTY 1618 0809-1014HB-1 COOK TO STA. ILLDOOR .



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026. CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system comforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete

2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.

2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shall be dry and all dust and loose

particles shall be removed by the use of compressed air or vacuuming. The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

Location	Туре
EAST ABUTMENT	A307
WEST ABUTMENT	A307

SCALE: NONE DATE 09/13/99

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ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 57 AT 175+h ST. ANCHOR BOLTS FOR ELASTOMERIC BEARINGS DETAIL S.N. 016-1095

DRAWN BY CADD CHECKED BY TMS

ABB-1 4-30-97

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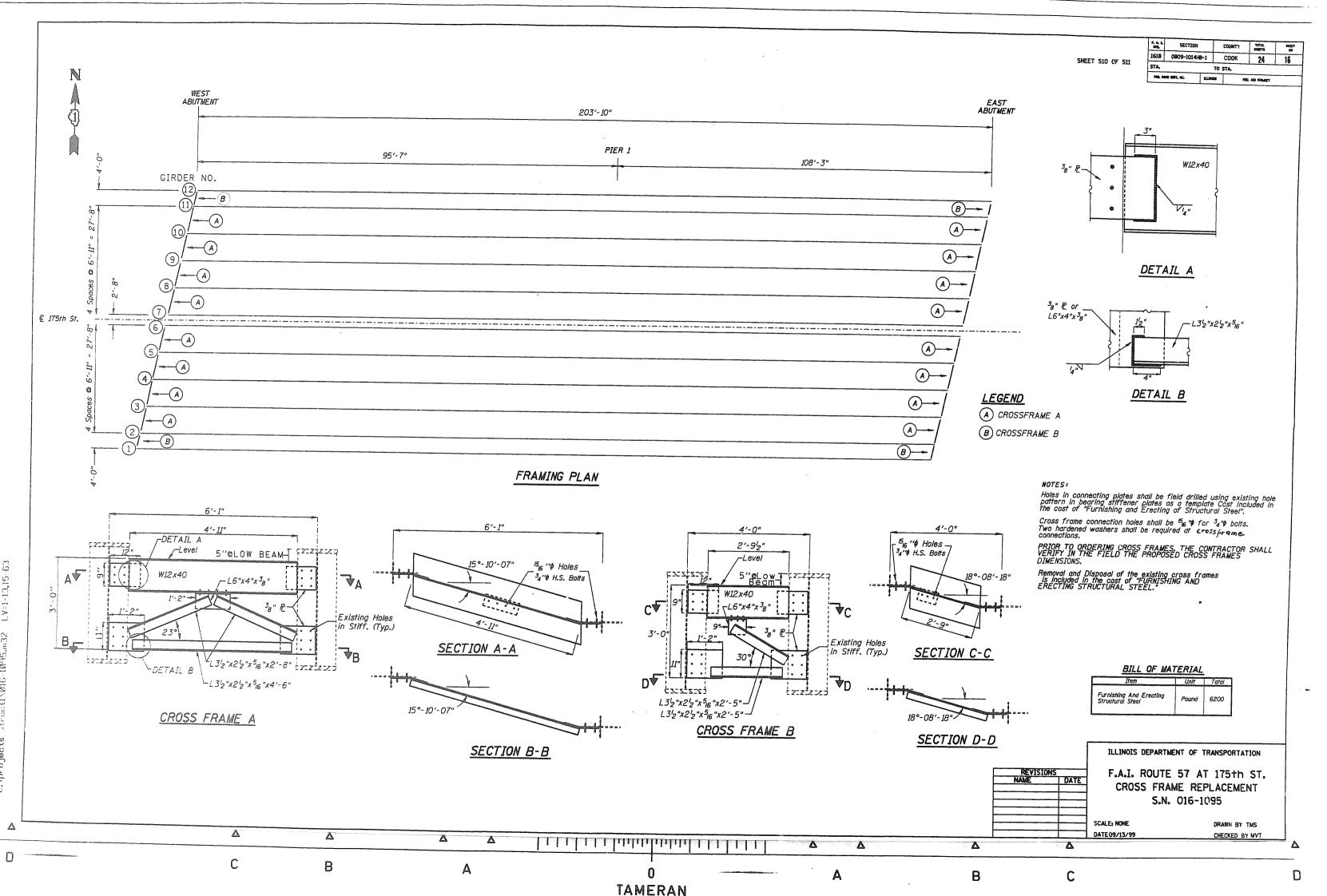
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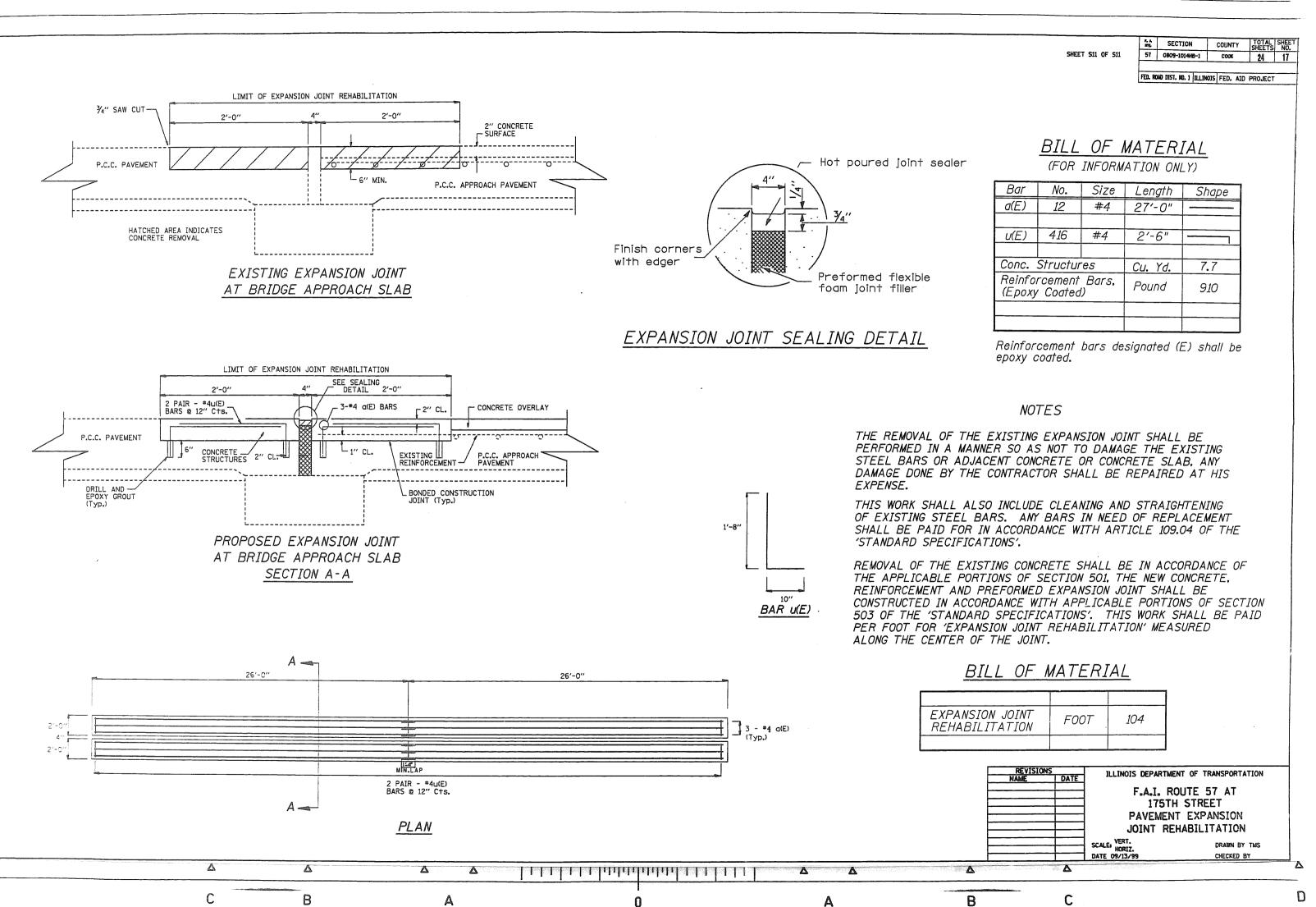
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