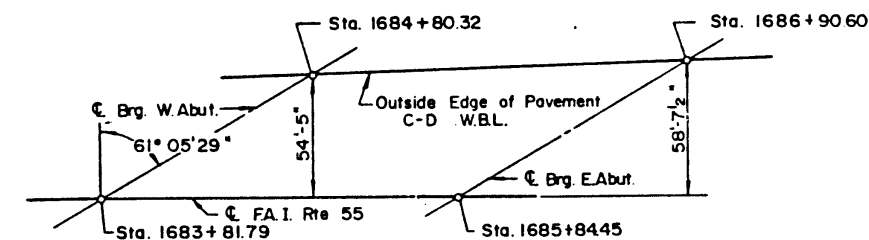
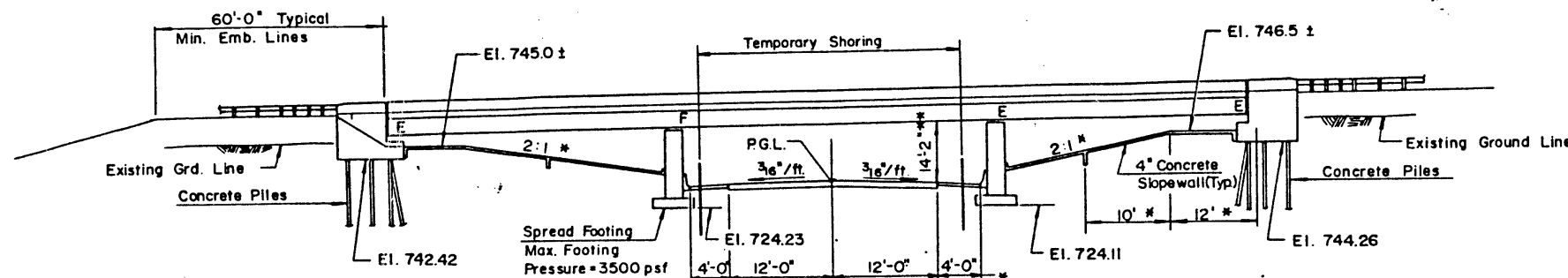


Bench Mark: Painted spot on north side of light standard AE-3, South of East Bound Lane Structure, Elevation 751.76

Existing Structure: The existing superstructure three span, non-composite, and continuous with W36 beams and reinforced concrete deck. The existing substructure consists of open concrete abutments on piles and solid concrete piers on spread footings. The structure length is 210'-8" back to back of abutments. The total structure width is 109'-10". Existing S.N. 099-0028



WIDENING ALIGNMENT LAYOUT



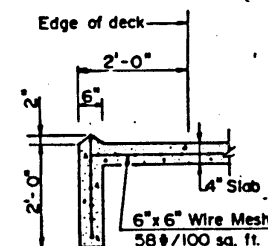
ELEVATION

NOTES

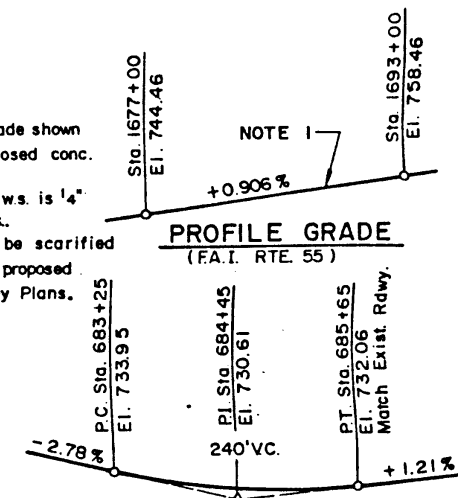
- All existing bearings at abutments only shall be replaced with Elastomeric bearings. See sheet S-IC-2-3.
- The 1" longitudinal joint along the median parapet shall be resealed as shown on sheet S-IC-2-13.
- See Maintenance of Traffic plans for traffic control during construction.
- Temporary shoring shall be provided during construction as shown or as required. Cost incidental to Structure Excavation, Common.
- Sloped walls removed for the construction of Abutments and Piers shall be replaced with Concrete Sloped wall. See sheet S-IC-2-7.

- Special Bridge Approach Slab Widening. See Sheet S-IC-2-22 for details.
- Bridge Approach Shoulder Pavement with drain. See IDOT Standard 2324-6 for details.
- Bridge Approach Shoulder Pavement without drain. See IDOT Standard 2324-6 for details.

* Dimensions at Rt. L's to Skew
** Existing Joliet Road profile shall be lowered in order to maintain existing clearance. See roadway plans for details.



SECTION A-A



PROFILE GRADE (JOLIET ROAD)

DESIGN CRITERIA (Widened Portion Only)

DESIGN SPECIFICATIONS:
AASHTO 1983 Standard Specifications for Highway Bridges and all subsequent interims.

1987 Standard Specifications for the Illinois State Toll Highway Authority.

1983 Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation.

DESIGN LOADING:

Live Load for Highway Bridges - HS20-44 and the Alternate Military Loading.

Surfacing or Future Surfacing 25 psf (minimum).

DESIGN STRESSES:

Service Load Design Methods shall be used in the design of all structural elements.

Reinforced Concrete

f'_c - Compressive Strength @ 28 days = 4,000 psi
 n = 8

Reinforcement

f_y - Yield Strength (Grade 60) = 60,000 psi
 f_s - Tension (Grade 60) = 24,000 psi

Structural Steel

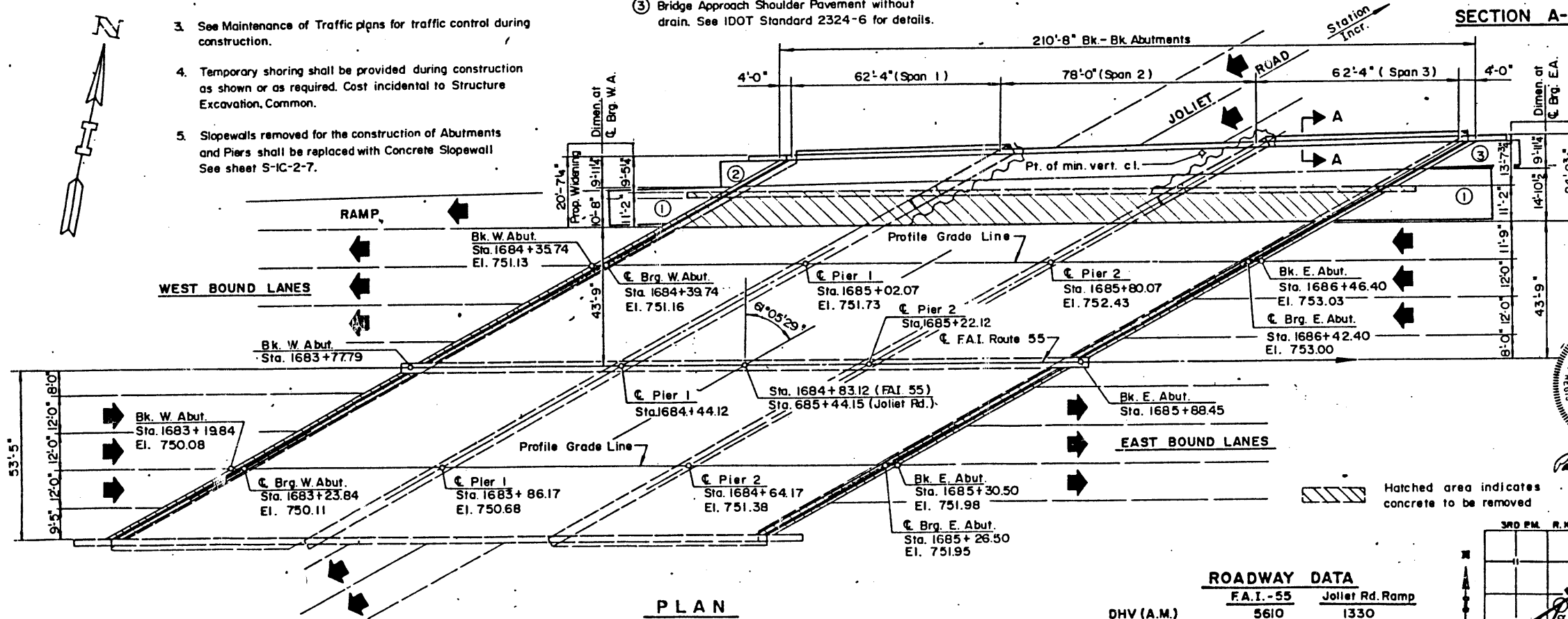
f_y - Yield Strength (AASHTO M-183) = 36,000 psi

LIVE LOAD DEFLECTION

Maximum deflection due to live load plus impact shall not exceed the following:

Span Length
800.

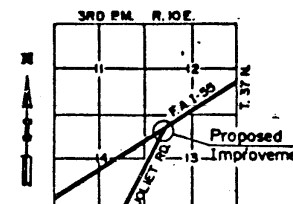
S-IC-2-1



PLAN

ROADWAY DATA

	F.A.I.-55	Joliet Rd. Ramp
DHV (A.M.)	5610	1330
DHV (P.M.)	5910	1090
ADT (Yr. 2008)	60,800	15,100
Class	Trunk	Area Service
Design Speed	70	45



LOCATION SKETCH

DRAWN... G.M.G.

DATE... FEB. 1987

CHECKED... D.B.

SCALE... NO. SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60321

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611

F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
GENERAL PLAN AND ELEVATION

DRAWING NO.

436 OF 527

GENERAL NOTES

CONCRETE:

ALL BRIDGE DECK SLABS, CURBS AND PARAPETS AND ALL OTHER SUPERSTRUCTURE CONCRETE SHALL BE CLASS D. CONCRETE FOR CURB AND PARAPET SHALL BE CHERT FREE. ALL SUBSTRUCTURE CONCRETE SHALL BE CLASS P.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A $\frac{3}{4}$ " x 45° CHAMFER, EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

REINFORCEMENT BARS:

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

COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.

REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.

REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI LATEST EDITION.

REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.

REINFORCEMENT BAR SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS SHOWN OTHERWISE ON THE DRAWING.

CLASS "C" SPLICE (F'C = 4000 PSI)

SIZE	LAP (GRADE 60)
#4	1'-9"
#5	2'-2"
#6	2'-7"
#7	3'-3"
#8	4'-3"
#9	5'-5"
#10	6'-10"

BARS INDICATED THUS 3#5-#5, ETC. INDICATES 3# LINES OF BARS WITH 5 LENGTHS PER LINE OF #5 BARS.

SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6" x 6" - W4.0 x W4.0, WEIGHING 58 LBS. PER 100 SQ. FT.

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE AASHTO M183, EXCEPT WHERE OTHERWISE NOTED.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS $\frac{7}{8}$ " DIAMETER, OPEN HOLES $\frac{1}{4}$ " DIAMETER, UNLESS OTHERWISE NOTED.

CALCULATED WEIGHT OF STRUCTURAL STEEL = 84,240 LBS.

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.

ALL HIGH STRENGTH BOLT CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ISSUE OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A.S.T.M. A325(M164) OR A490(M253) BOLTS FOR SLIP-CRITICAL CONNECTIONS. EXCEPT TIGHTENING METHODS USING EITHER THE LOAD INDICATING WASHERS OR THE CALIBRATED WRENCH ARE NOT ALLOWED.

GENERAL NOTES (con't.)

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE OF CONTINUOUS BEAMS OR GIRDERS FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING DIAPHRAGMS OVER SUPPORTS.

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 FLANGES, WEBS AND ALL SPLICE PLATE MATERIAL OF THE STEEL WIDE FLANGE BEAMS.

CONSTRUCTION:

DO NOT SCALE DIMENSIONS FOR CONSTRUCTION, SCALE APPLIES ONLY TO FULL SIZE DRAWINGS.

NO CONSTRUCTION JOINTS EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS ORDERED BY THE ENGINEER.

RAISED BEARING AREAS SHALL BE CAST MONOLITHICALLY WITH THE REST OF THE STRUCTURE AND GROUND TO THE ELEVATIONS SHOWN.

TEMPORARY SHEETING, BRACING OR COFFERDAMS SHALL BE CONSTRUCTED AS REQUIRED FOR THE EXCAVATION TO PROTECT THE ADJACENT AREAS FROM SETTLING OR FALLING INTO THE EXCAVATED AREAS. THIS WORK SHALL BE INCIDENTAL TO STRUCTURE EXCAVATION, COMMON.

EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE HAS BEEN POURED AND THE FALSEWORK REMOVED. SEE ARTICLE 207.4 OF THE STANDARD SPECIFICATIONS.

AFTER THE BEAMS OR GIRDERS ARE SET, ALL ELEVATIONS FOR DETERMINING FILLET HEIGHTS SHALL BE TAKEN AT ONE TIME.

AN APPLICATION OF SEALANT SHALL BE APPLIED TO THE SURFACES OF ALL EXPOSED ABUTMENT SEATS

BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF $\frac{1}{8}$ INCH. ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO $\frac{1}{8}$ " ADJUSTING SHIMS, OF THE DIMENSIONS OF THE TOP BEARING PLATE AT THE ABUTMENTS, AND THE BOTTOM PLATE AT THE PIER, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.

CONCRETE PILES AT ABUTMENTS SHALL BE DRIVEN IN HOLES PRECURED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 505.7.2 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL DRIVE TWO TEST PILES IN A PERMANENT LOCATION, ONE AT EACH ABUTMENT, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

REFERENCES TO "STANDARD SPECIFICATIONS" INDICATES 1987 STANDARD SPECIFICATIONS FOR THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY. REFERENCES TO "I.D.O.T. SPECIFICATIONS" INDICATES 1983 STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION.

ALL ELECTRICAL CONDUIT TO BE MOUNTED ON THE BRIDGE SHALL BE ATTACHED TO THE CONCRETE BY EXPANSION ANCHORS. NO CONDUIT WILL BE ATTACHED TO THE STRUCTURAL STEEL.

LEGEND

P.G.L.	- Profile Grade Line
N.B.L.	- North Bound Lane
S.B.L.	- South Bound Lane
E.B.L.	- East Bound Lane
W.B.L.	- West Bound Lane
N.A.	- North Abutment
S.A.	- South Abutment
E.F.	- Each Face
FF	- Front Face
B.F.	- Back Face
I.F.	- Inside Face
O.F.	- Outside Face
E.E.	- Each End
P.J.F.	- Preformed Joint Filler
P.J.S.	- Preformed Joint Sealer
Bk/	- Back of
B/	- Bottom of
T/	- Top of

① Indicates items to be constructed and paid for in accordance with 1983 Standard Specifications For Road & Bridge Construction, Illinois Department of Transportation.

ANY EXISTING REINFORCEMENT TO BE LAPPED, SPliced, OR OTHERWISE INCORPORATED INTO NEW CONSTRUCTION, IF DAMAGED BY THE CONTRACTOR'S OPERATIONS, SHALL BE SUPPLEMENTED WITH ADDITIONAL REINFORCEMENT OR EXPANSION ANCHORS AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

PLAN DIMENSIONS AND DETAILS RELATIVE TO 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 THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS., AND 3/4" Ø x 12" HOOKED BOLTS.

* Bid for either (a), (b), or (c) but not more than one.

** Repair quantities are based on visual inspections, performed October 1986.

ISTHA STANDARD DRAWINGS

ST-86-105
ST-86-107

IDOT STANDARD DRAWINGS

2382-2
2324-6

ESTIMATED QUANTITIES FOR F.A.I. RTE. 55 OVER JOLIET ROAD

NO.	ITEM	UNIT	ESTIMATED QUANTITIES
206C	Structure Excavation, Common	Cu. Yd.	472
501A	Concrete for Bridges and Drainage Structures (Class D)	Cu. Yd.	2463
501B	Concrete for Bridges and Drainage Structures (Class P)	Cu. Yd.	2031
503A3	Furnishing Structural Steel (Beam Spans)	Lbs.	84,390
503B3	Erecting Structural Steel (Beam Spans)	Lbs.	84,390
504A	Reinforcing Steel	Lbs.	23,040
504B	Reinforcing Steel, Epoxy Coated	Lbs.	50,880
505F	Furnishing Steel Shells for Cast-in-Place Concrete Piles	Lin. Ft.	160
505G	Driving and Filling Steel Shells for Cast-in-Place Concrete Piles	Lin. Ft.	160
505J	Splices of Steel Piles or Steel Shells	Ea.	3
505K	Test Piles	Lin. Ft.	52
507	Concrete Removal	Cu. Yd.	253.9
508	Bituminous Bridge Deck Overlay Removal	Sq. Yd.	2380
509A	Bridge Deck Scarification, 1 1/2"	Sq. Yd.	1943
510	Class A Bridge Deck Removal	Sq. Yd.	120
511	Class B Bridge Deck Repair	Sq. Yd.	20
513A	Concrete for Bridge Deck Overlay		
	(a) Class L (Latex Modified Concrete)	Cu. Yd.	235
	(b) Class L-S (Low-Slump Dense Concrete)	Cu. Yd.	235
	(c) Class L-S Mod. (Plasticized Concrete)	Cu. Yd.	235
514	Placing Concrete for Bridge Deck Overlay	Sq. Yd.	2651
516	Pneumatically Applied Concrete	Sq. Ft.	41
518A	Elastomeric Bearings, Type A	Ea.	20
518B	Elastomeric Bearings, Type B	Ea.	20
519	Bridge Expansion Bearing Removal	Ea.	36
523	Clean Bridge Seats	Sq. Ft.	2115
524	Apply Bridge Seat Sealant	Sq. Ft.	2218
525A2	Bridge Expansion Joint Closure - Neoprene 2"	Lin. Ft.	500
526	Bridge Approach Slab	Sq. Yd.	29.2
530	Formed Concrete Repair	Cu. Ft.	36
533	Low Pressure Epoxy Injection	Lin. Ft.	413
574	Reseal Longitudinal Joint	Lin. Ft.	207
617	Concrete Slope Wall	Sq. Yd.	108
① 40801500	P.C. Concrete Bridge Approach Shoulder Pavement	Sq. Yd.	342

INDEX OF SHEETS

F.A.I. ROUTE 55 OVER JOLIET ROAD

SHEET NO.	TITLE
S-IC-2-1	GENERAL PLAN & ELEVATION
S-IC-2-2	GENERAL NOTES & INDEX
S-IC-2-3	STAGE CONSTRUCTION DETAILS
S-IC-2-4	ABUTMENT REMOVAL
S-IC-2-5	W. ABUTMENT WIDENING
S-IC-2-6	E. ABUTMENT WIDENING
S-IC-2-7	WINGWALL DETAILS
S-IC-2-8	PIER 1 WIDENING
S-IC-2-9	PIER 2 WIDENING
S-IC-2-10	FRAMING PLAN
S-IC-2-11	BEARING DETAILS
S-IC-2-12	DECK WIDENING
S-IC-2-13	PARAPET DETAILS
S-IC-2-14	EXPANSION JOINT MODIFICATION
S-IC-2-15	EXPANSION JOINT DETAILS
S-IC-2-16	SUBSTRUCTURE REPAIR
S-IC-2-17	SUBSTRUCTURE REPAIR
S-IC-2-18	DECK ELEVATIONS
S-IC-2-19	DECK ELEVATIONS
S-IC-2-20	DECK ELEVATIONS
S-IC-2-21	DECK ELEVATIONS
S-IC-2-22	APPROACH SLAB DETAILS

S-IC-2-2

DRAWN: R.H.H.

DATE: FEB. 1987

CHECKED: D.R.B.

SCALE: NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

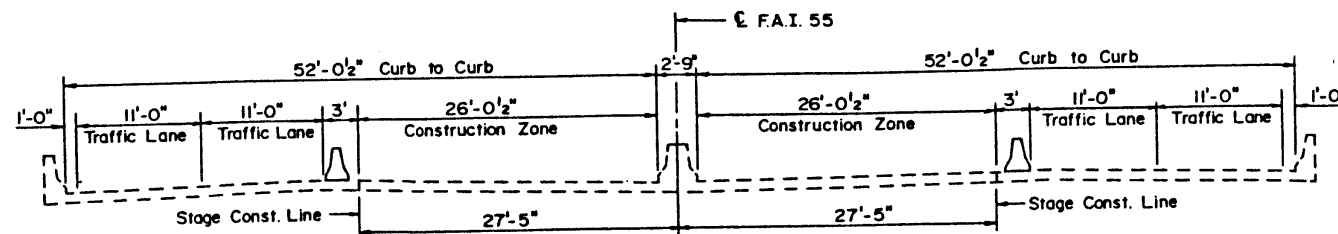
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611

F.A.I. RTE. 55 OVER JOLIET ROAD
BRIDGE NOS.
GENERAL NOTES & INDEX

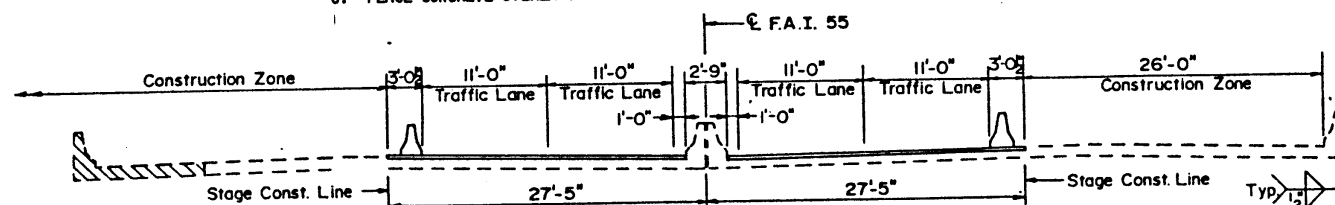
DRAWING NO.

437 OF 527



W.B.L. STAGE ONE E.B.L.

1. REMOVE BITUMINOUS SURFACING FROM DECK AND APPROACH SLABS IN CONSTRUCTION ZONE.
2. SCARIFY DECK IN CONSTRUCTION ZONE.
3. PARTIAL DEPTH AND FULL DEPTH REPAIRS IN CONSTRUCTION ZONE.
4. ADJUST APPROACHES WITHIN CONSTRUCTION ZONE. SEE ROADWAY PLAN.
5. MODIFY NEOPRENE EXPANSION JOINTS AT ABUTMENTS.
6. PLACE CONCRETE OVERLAY.



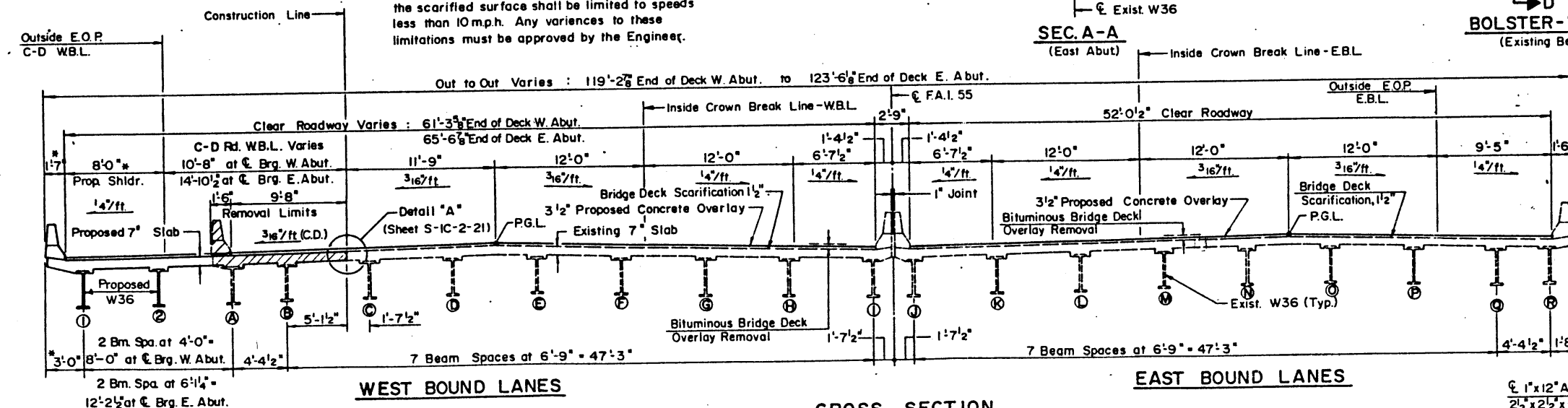
W.B.L. STAGE TWO E.B.L.

1. REMOVE BITUMINOUS SURFACING FROM DECK AND APPROACH SLABS IN CONSTRUCTION ZONE.
2. SCARIFY DECK IN CONSTRUCTION ZONE.
3. PARTIAL DEPTH AND FULL DEPTH REPAIRS IN CONSTRUCTION ZONE.
4. ADJUST APPROACHES WITHIN CONSTRUCTION ZONE. SEE ROADWAY PLAN.
5. MODIFY NEOPRENE EXPANSION JOINTS AT ABUTMENTS.
6. WIDEN W.B.L. SUBSTRUCTURE & SUPERSTRUCTURE.
7. PLACE CONCRETE OVERLAY.

STAGE CONSTRUCTION DETAILS

See Roadway Plans for Additional Details

NOTE: Construction vehicles traveling on the existing concrete deck after scarification shall be limited to 12 kips per axle. All vehicles traveling on the scarified surface shall be limited to speeds less than 10 m.p.h. Any variances to these limitations must be approved by the Engineer.

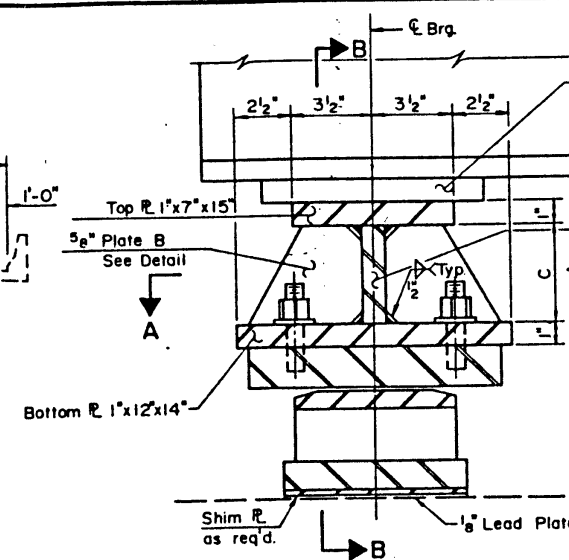


WEST BOUND LANES

EAST BOUND LANES

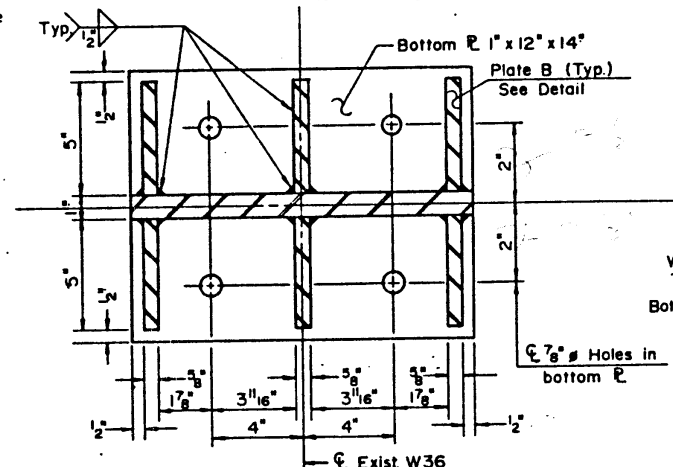
CROSS SECTION
Looking East

* Indicates dimensions given perpendicular to Outside E.O.P. C-D W.B.L.

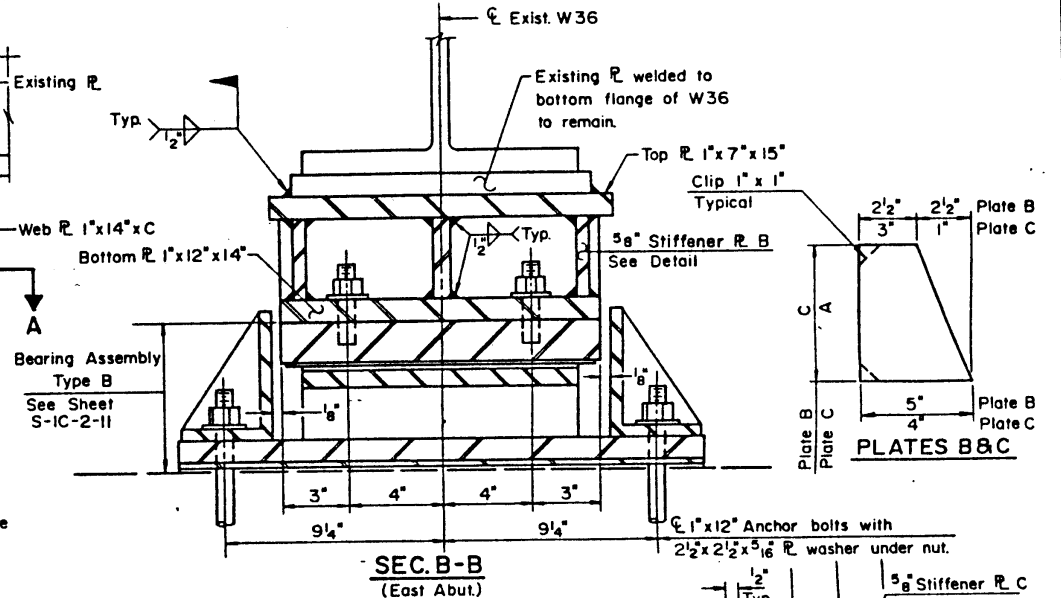


BOLSTER AT EAST ABUT.

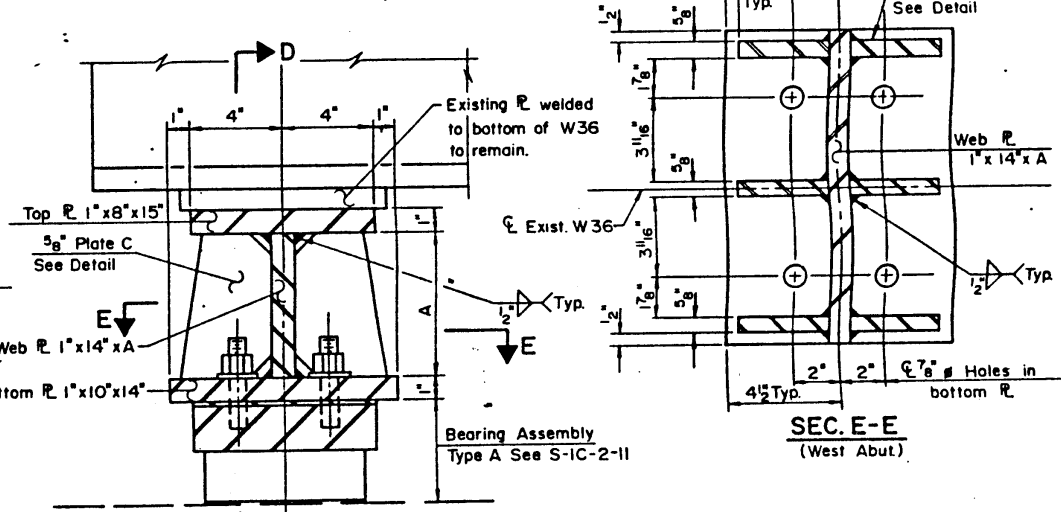
(Existing Beams Only - 18 Req'd.)
C-213 1/2 Bms. @ C-D E.O.P. W.B.L.
C-413 1/2 Bms. @ C-D E.O.P. E.B.L.



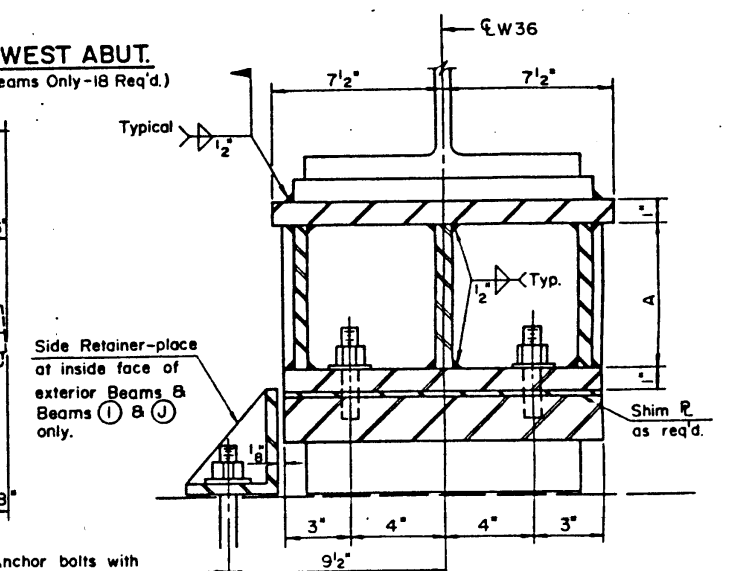
SEC. A-A (East Abut.)



SEC. B-B (East Abut.)



BOLSTER - WEST ABUT. (Existing Beams Only - 18 Req'd.)



SEC. D-D (West Abut.)

A-4 1/2 Bms. @ C-D E.O.P. W.B.L.
A-6 3/8 Bms. @ C-D E.O.P. E.B.L.

S-IC-2-3

DRAWN: G.M.G.
CHECKED: D.B.

DATE: FEB. 1987
SCALE: NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS

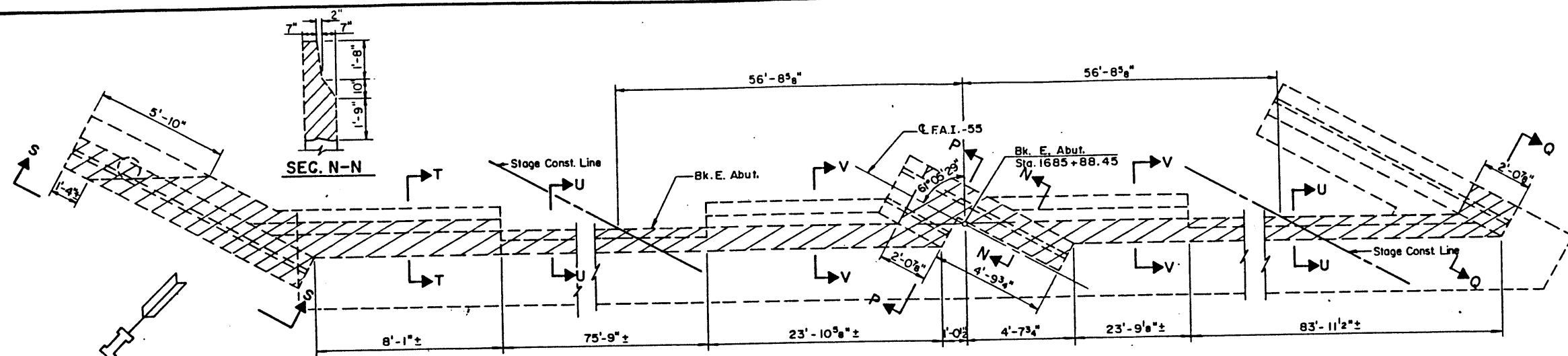


THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

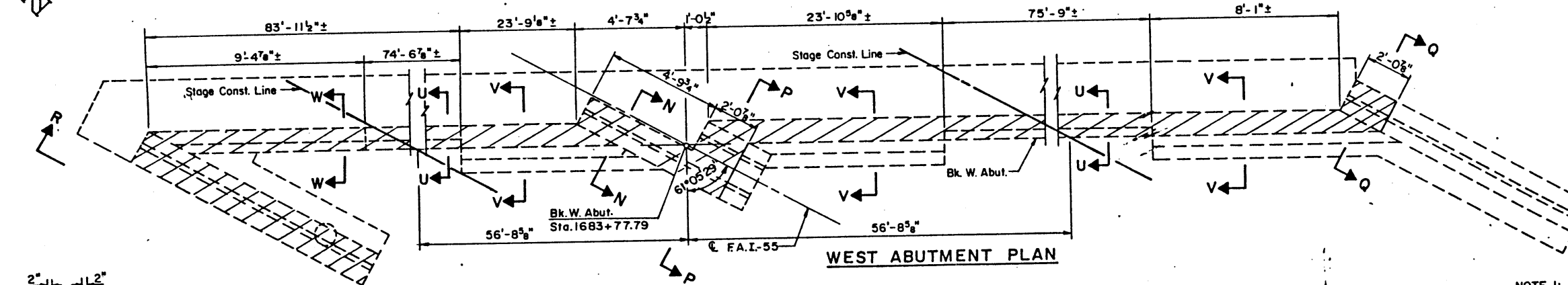
NO.	DATE	REVISIONS

CONTRACT CIP-611
FAI ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
STAGE CONSTRUCTION DETAILS

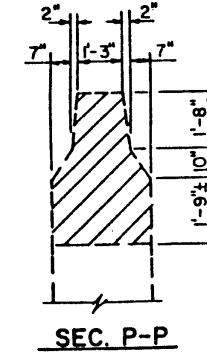
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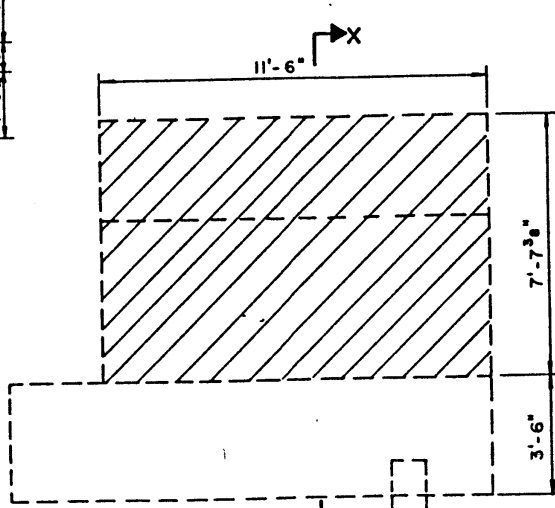
EAST ABUTMENT PLAN



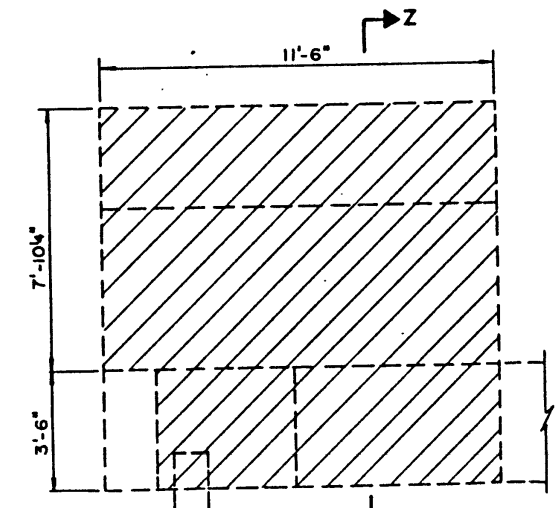
WEST ABUTMENT PLAN



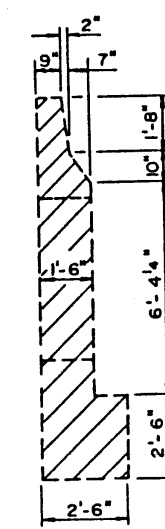
SEC. P-P



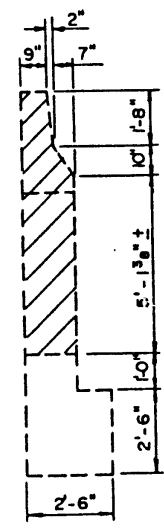
VIEW R-R



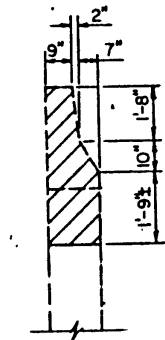
VIEW S-S



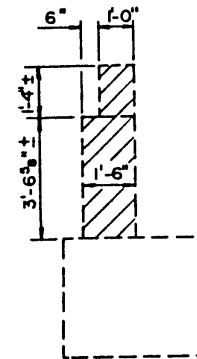
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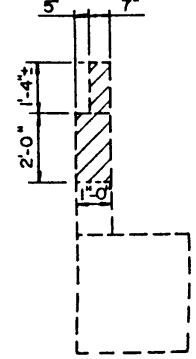
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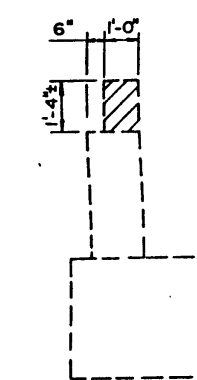
SEC. Q-Q



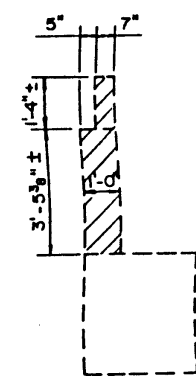
SECTION T-T



SECTION U-U



SECTION V-V



SECTION W-W

NOTE 1:
All the embedded reinforcement exposed by Concrete Removal in the areas where surfaces shall remain exposed after the modifications shall be cut flush with the concrete surface and the surface shall be covered by a layer of Roofing Tar. Cost shall be incidental to Concrete Removal.

NOTE 2:
Quantities estimated for Structure Excavation, Common are calculated based on the following:
Horizontal Limits: 2'-0" Outside of the edges of footings.
Vertical Limits: Same depth as concrete removal.

ITEM	UNIT	QUANTITY
Concrete Removal	Cu.Yd.	55.1
Structure Excavation, Common	Cu.Yd.	69

Indicates Existing Concrete to be removed.

Rev.	1st	2nd	3rd
Designed or Checked by	DRE	DRE	WH
Drawn or Corrected by	JH	RDL	GSA

DRAWN: J.H.
CHECKED: D.R.B.

DATE: FEB. 1987
SCALE: NO SCALE

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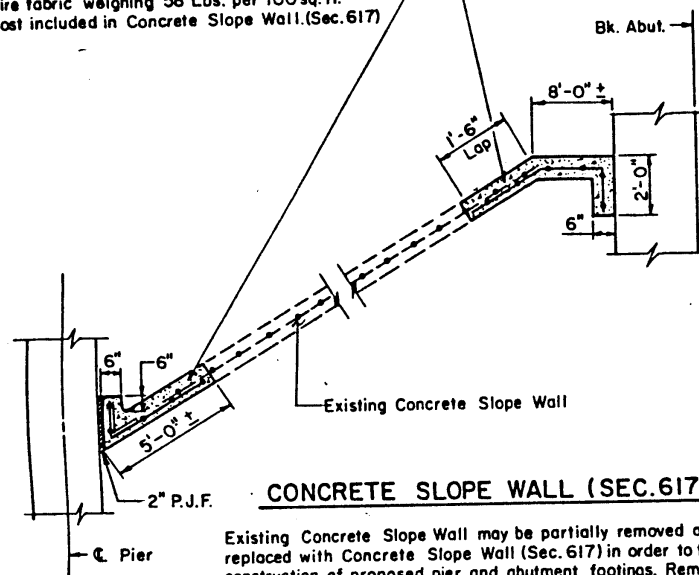
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611
F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
ABUTMENT REMOVAL

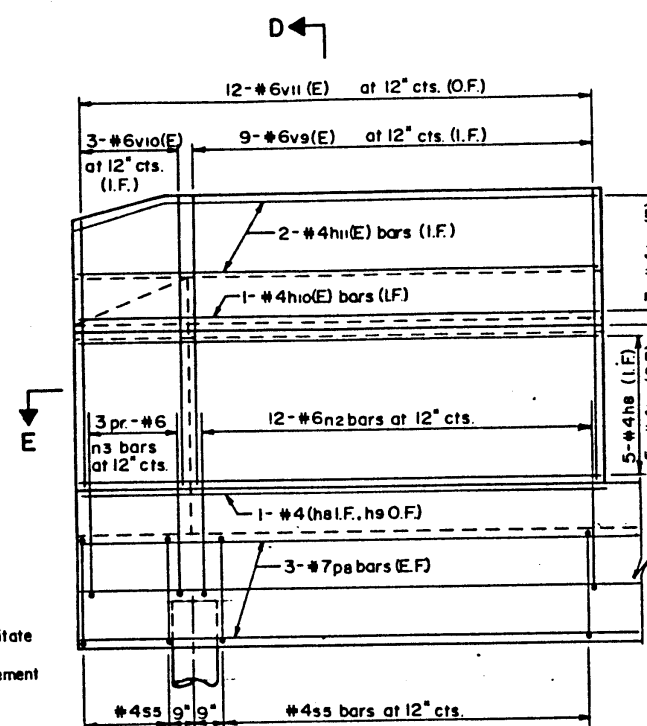
S-IC-2-4
DRAWING NO.
439 of 527

Existing welded wire mesh shall be reused in these areas. Existing mesh shall be sandblasted clean to grey metal and lapped with proposed 6"x6"-W4.0 x W4.0, welded wire fabric weighing 58 Lbs. per 100 sq. ft. Cost included in Concrete Slope Wall (Sec. 617)



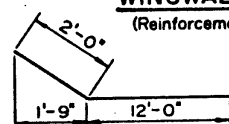
CONCRETE SLOPE WALL (SEC. 617)

Existing Concrete Slope Wall may be partially removed and replaced with Concrete Slope Wall (Sec. 617) in order to facilitate construction of proposed pier and abutment footings. Removal shall be incidental to Structure Excavation, Common. Replacement shall be paid for as Concrete Slope Wall (Sec. 617). Estimated quantity of Concrete Slope Wall = 108 Sq.Yds.

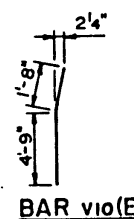


WINGWALL ELEVATION

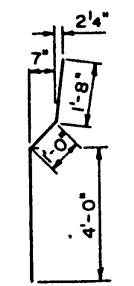
(Reinforcement at East Abut.)



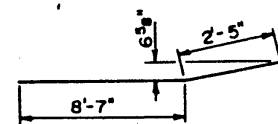
BAR p8



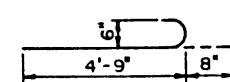
BAR vio(E)



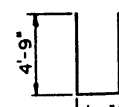
BAR v9(E)



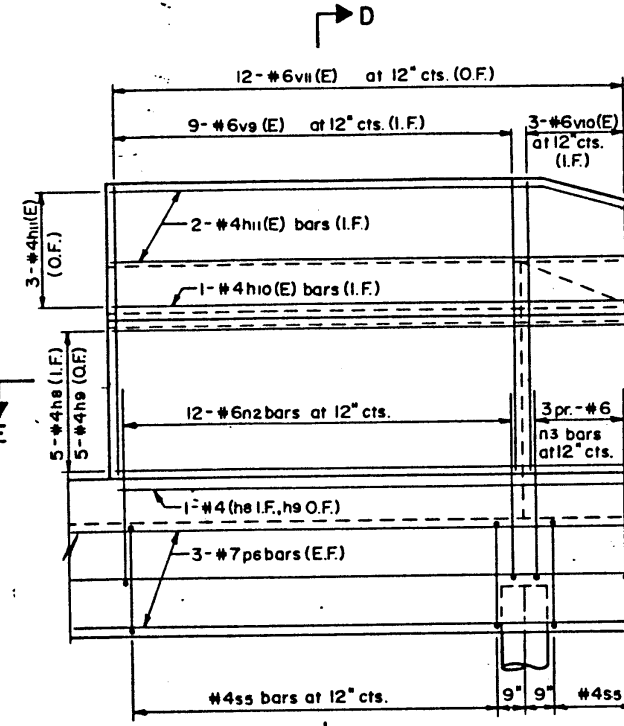
BAR h8 & hio(E)



BAR n

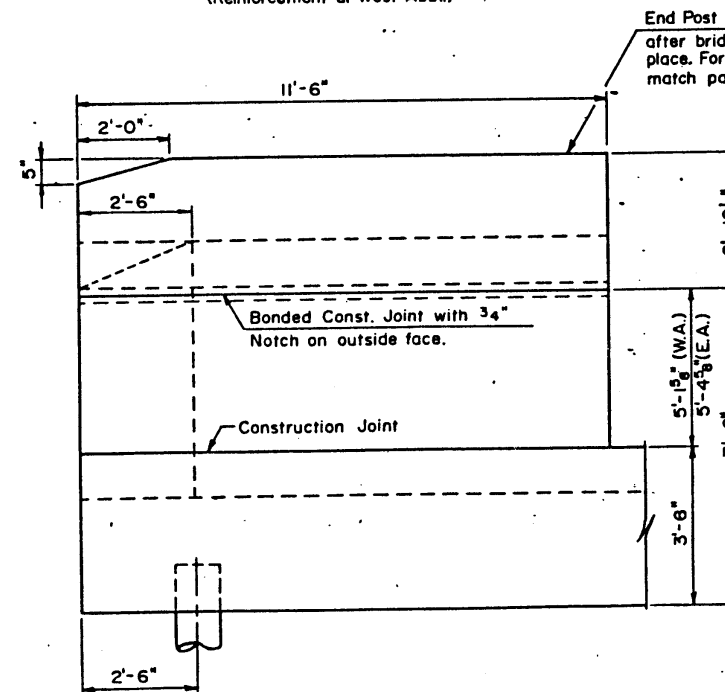


BAR n2



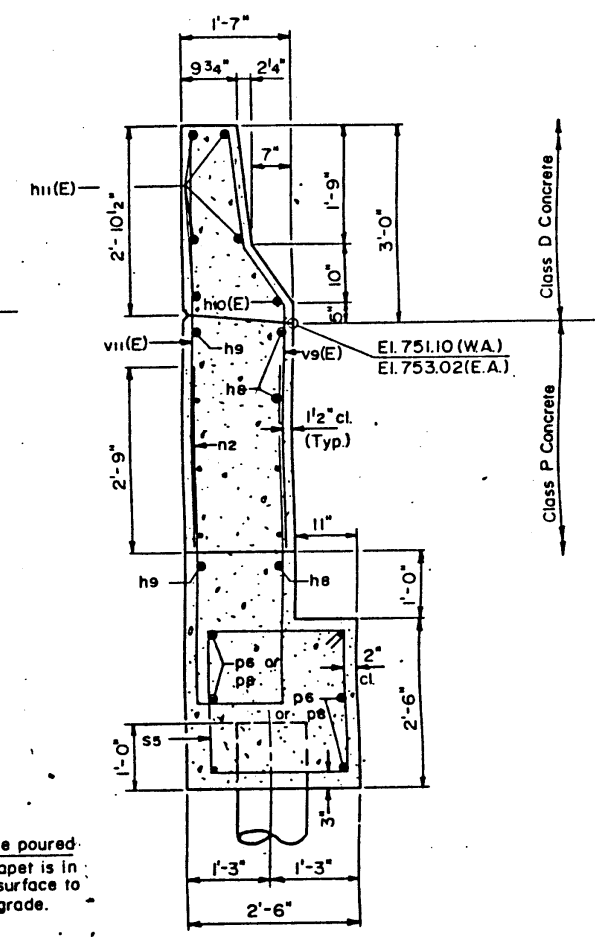
WINGWALL ELEVATION

(Reinforcement at West Abut.)

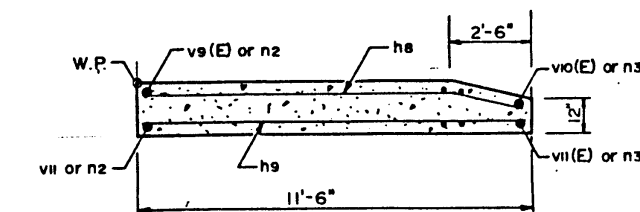


WINGWALL ELEVATION

(Outside View)



SECTION D-D



SECTION E-E

Work this Sheet with Sheets S-IC-2-5 & S-IC-2-6.

1st	2nd	3rd
DRB	DRB	WH
Designed or Checked by	DRB	GSA
Drawn or Corrected by	RDL	G.C.

DRAWN: RDL
CHECKED: DRB

DATE: FEB 1987
SCALE: NO SCALE

MTA, INCORPORATED
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CHICAGO - SPRINGFIELD - INDIANAPOLIS



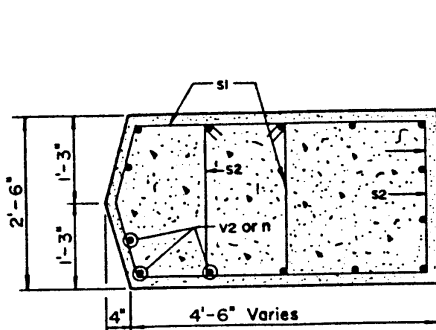
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

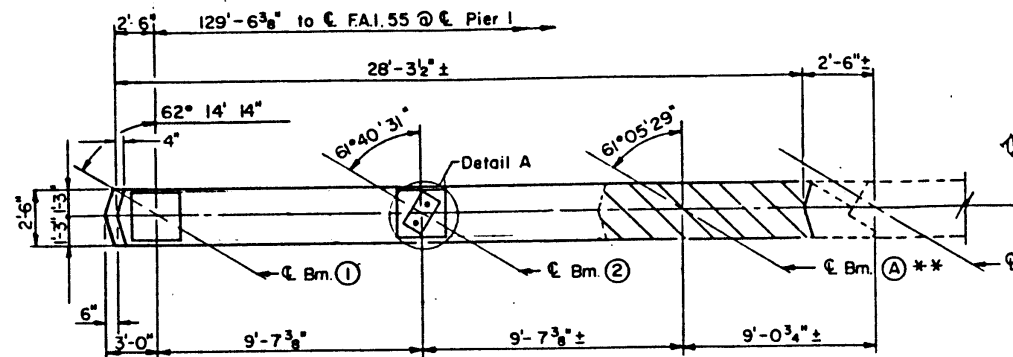
CONTRACT CIP-611
FAI ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
WINGWALL DETAILS

S-IC-2-7

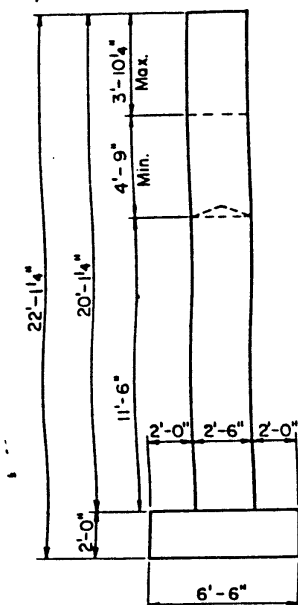
DRAWING NO.
442 OF 527



SEC. A-A

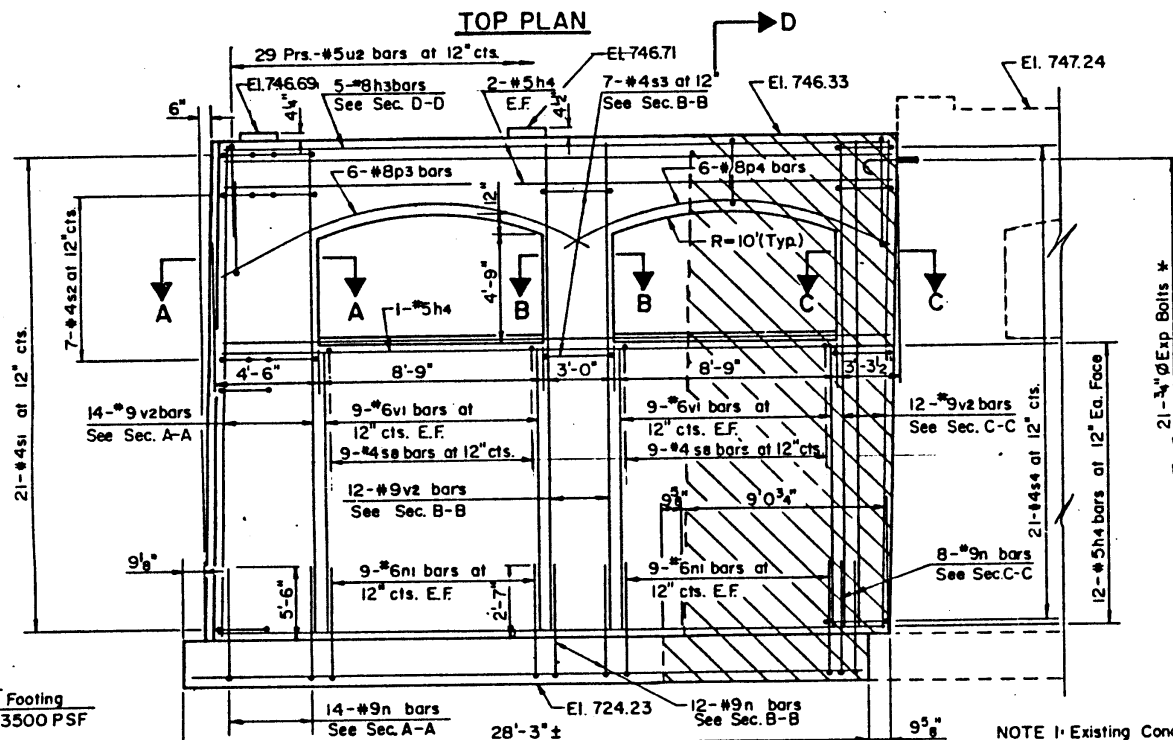


TOP PLAN



END VIEW

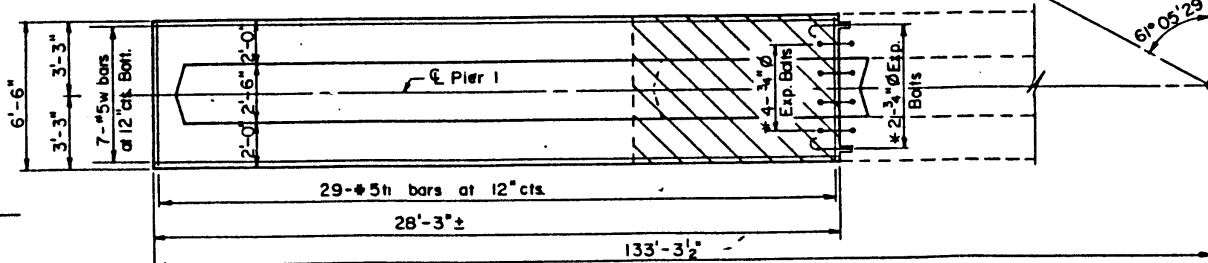
Maximum Footing Pressure = 3500 PSF



ELEVATION

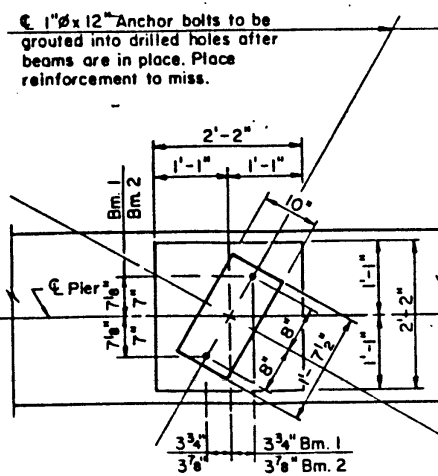
NOTE 1: Existing Concrete slopwall shall be removed as required. Cost incidental to STRUCTURE EXCAVATION. COMMON-Concrete Slopwall shall be replaced as shown on Sheet S-IC-2-7.

NOTE 2: Existing barrier to be removed and replaced. See Roadway Plans for details. - FAI. 55

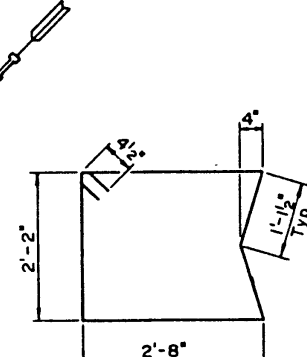


FOOTING PLAN

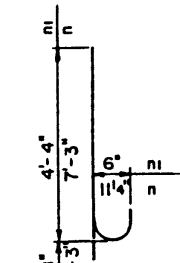
** Temporary supports shall be provided under Beam A. Supports shall be placed after Concrete deck is removed and shall remain in place until the pier is rebuilt and concrete is cured. Bolts in diaphragms adjacent to piers shall be loosened to finger tight prior to raising beams and retightened after beams are in final position. Temporary supports shall be in accordance with Section 503.5.3 of the Standard Specifications. Cost incidental to 503B1 Erecting Structural Steel (Beam Spans).



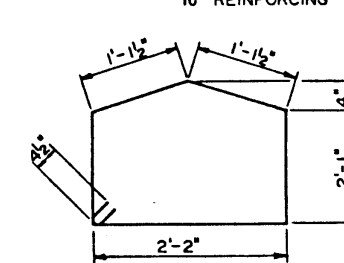
DETAIL A
Typical Each Beam



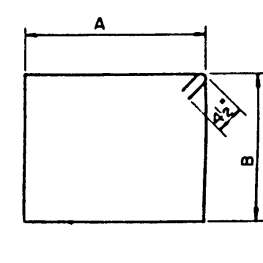
BAR s4



BAR n & ni

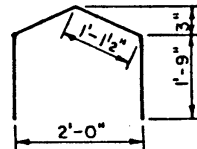


BAR s1

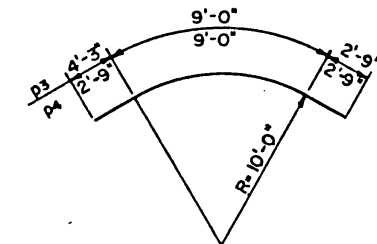


BAR s2 & s3

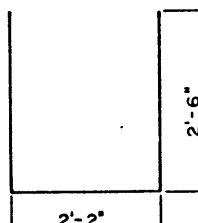
BAR	A	B
s2	3'-1 1/2"	2'-2"
s3	2'-8"	2'-2"



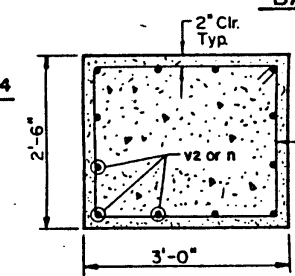
BAR s8



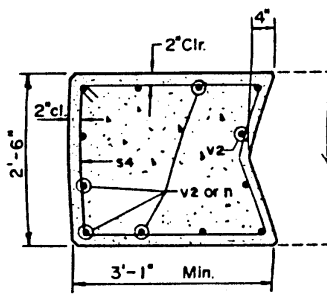
BARS p3 & p4



BAR u2



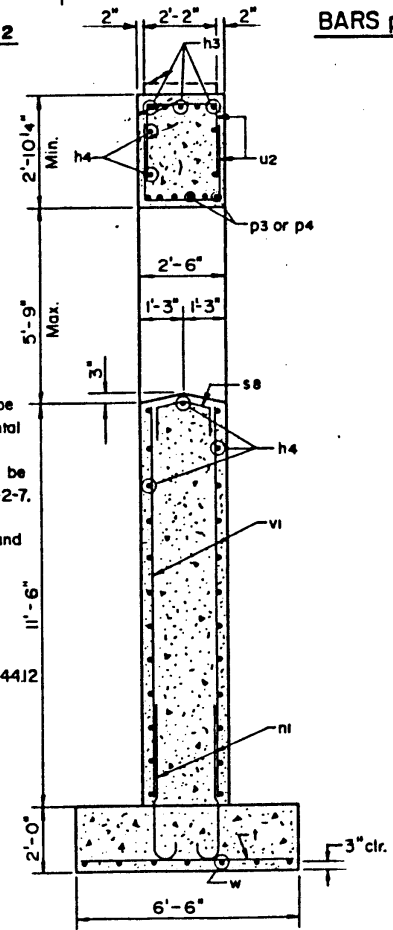
SEC. B-B



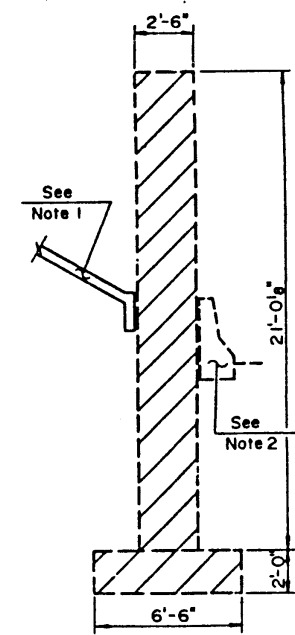
SEC. C-C

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h3	5	#8	27'-9"	
h4	29	#5	27'-9"	
n	34	#9	8'-6"	
ni	36	#6	5'-0"	
p3	6	#8	16'-0"	
p4	6	#8	14'-6"	
s1	21	#4	9'-4"	
s2	7	#4	11'-4"	
s3	7	#4	10'-4"	
s4	21	#4	10'-6"	
s8	18	#4	5'-9"	
ti	29	#5	6'-0"	
u2	58	#5	7'-2"	
vi	36	#6	11'-3"	
v2	38	#9	19'-9"	
w	7	#5	27'-9"	
Structure Excav. Common			Cu. Yd.	117
Class P Conc.			Cu. Yd.	585
Reinforcing Steel			Lbs.	7380
Concrete Removal			Cu. Yd.	22.0



SEC. D-D
(For Proposed Improvement)



SEC. D-D
(For Removal of Existing Pier)

1st	2nd	3rd
DRB	DRB	W.H.
DRB	DRB	F.J.

DRAWN: R.D.L.
CHECKED: DRB.

DATE: FEB. 1987
SCALE: NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS

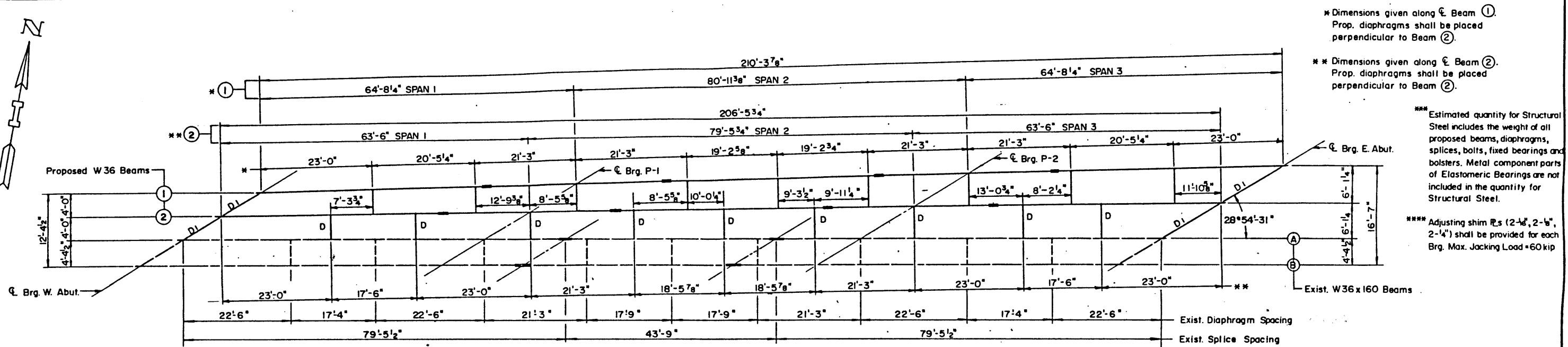
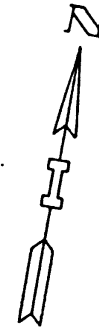


THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

NO.	DATE	REVISIONS	DESCRIPTION

CONTRACT CIP-611
FAI ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
PIER I WIDENING

S-IC-2-8
DRAWING NO.
443 OF 527



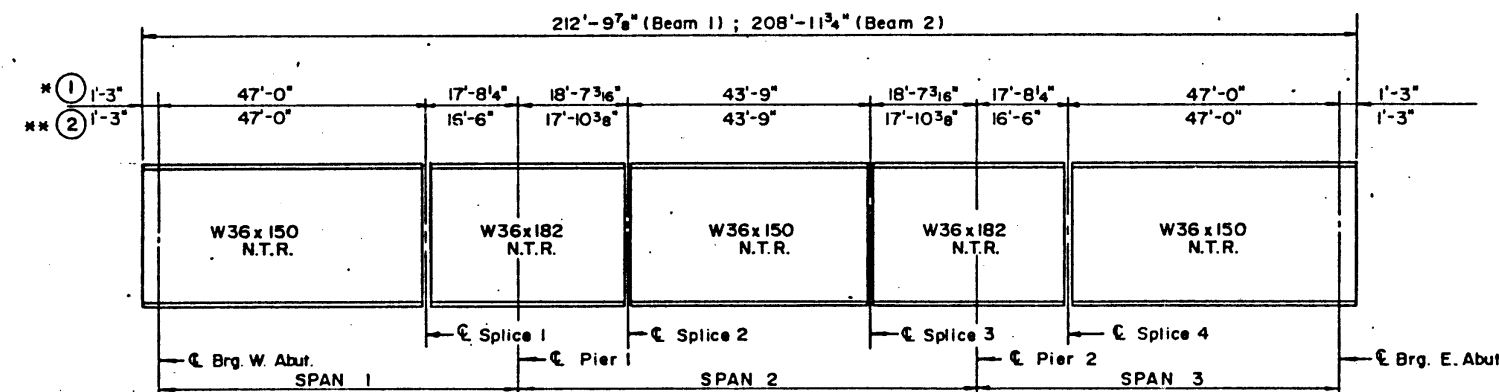
* Dimensions given along $\text{C.L. Beam } \textcircled{1}$.
Prop. diaphragms shall be placed perpendicular to Beam $\textcircled{2}$.

** Dimensions given along $\text{C.L. Beam } \textcircled{2}$.
Prop. diaphragms shall be placed perpendicular to Beam $\textcircled{2}$.

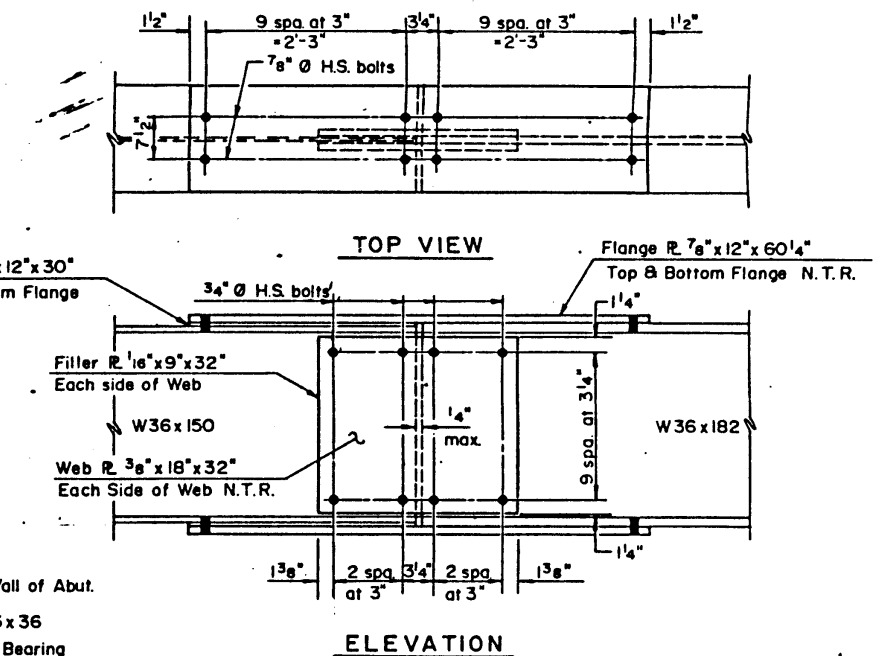
*** Estimated quantity for Structural Steel includes the weight of all proposed beams, diaphragms, splices, bolts, fixed bearings and bolsters. Metal component parts of Elastomeric Bearings are not included in the quantity for Structural Steel.

**** Adjusting shim R's (2'-4", 2'-6", 2'-8") shall be provided for each Brg. Max. Jacking Load = 60 kip

FRAMING PLAN



BEAM ELEVATION

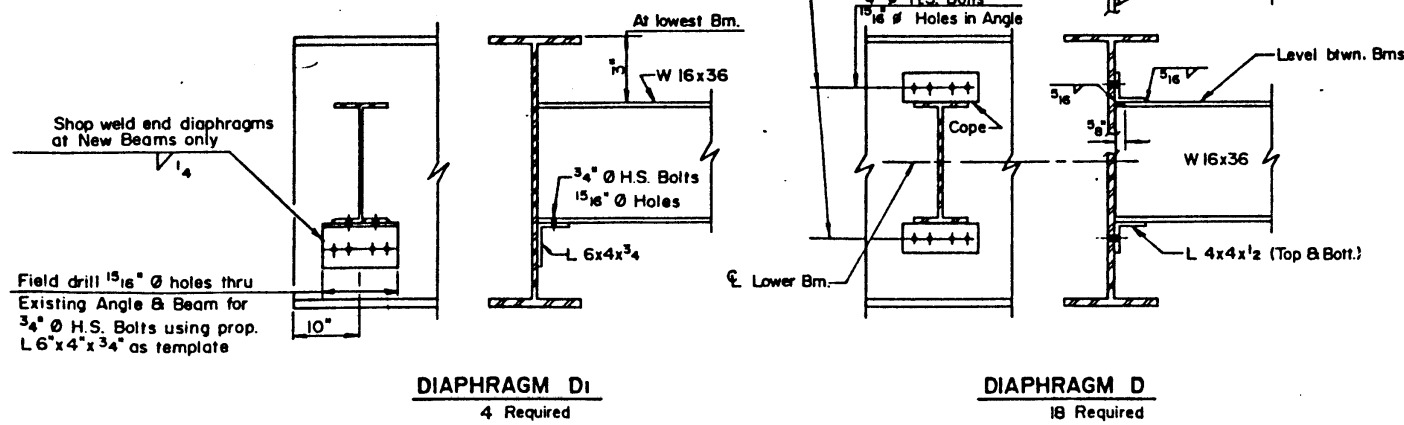


ELEVATION

FIELD SPLICE DETAILS
(Typical All Locations)

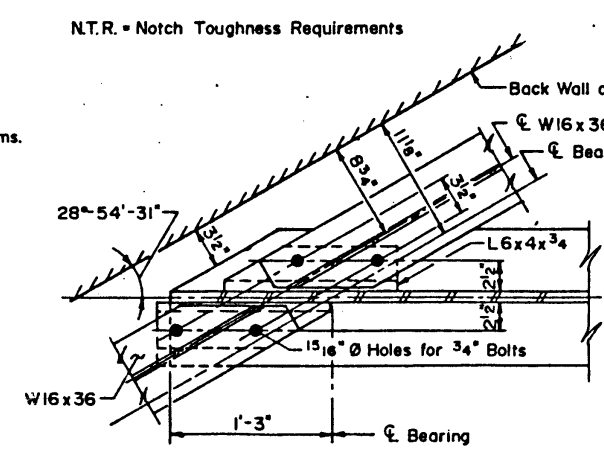
BILL OF MATERIALS

ITEM	UNIT	ESTIMATED QUANTITIES
*** Structural Steel	Lbs.	84,390
Elastomeric Bearings, Type A	Ea.	20
Elastomeric Bearings, Type B	Ea.	20
*** Bridge Expansion Brg. Removal	Ea.	36



DIAPHRAGM D1
4 Required

DIAPHRAGM D
18 Required



CONN. FOR END DIAPHRAGM

1st	2nd	3rd
DRB	DRB	WH
GMG	RDL	RSL

DRAWN: G.M.G.
CHECKED: D.R.B.

DATE: FEB 1987
SCALE: NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS

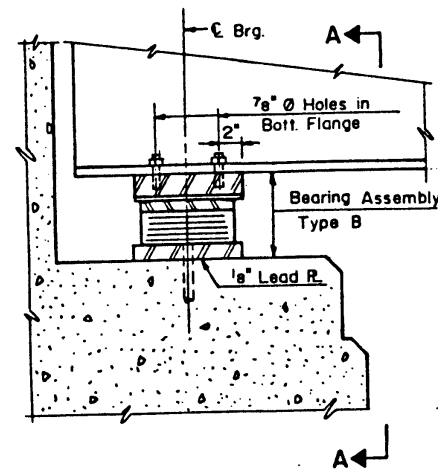


THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

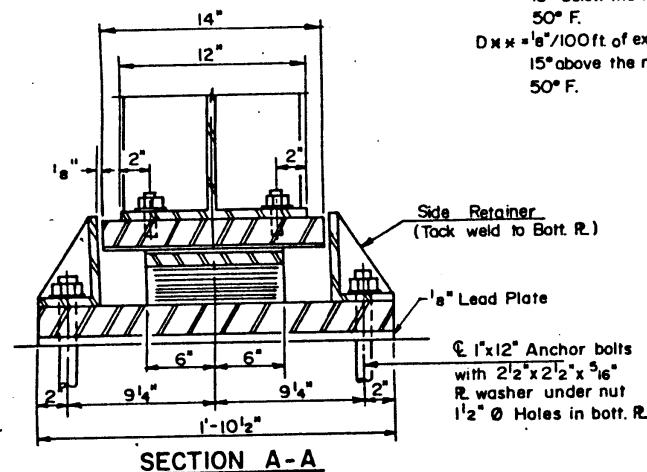
CONTRACT CIP-611
FA.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NOS.
FRAMING PLAN

S-1C-2-10
DRAWING NO.
445 OF 527

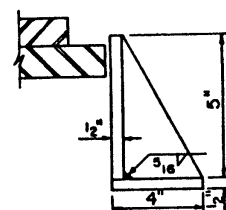


SECTION AT EAST ABUT.
(Beams 1 & 2)

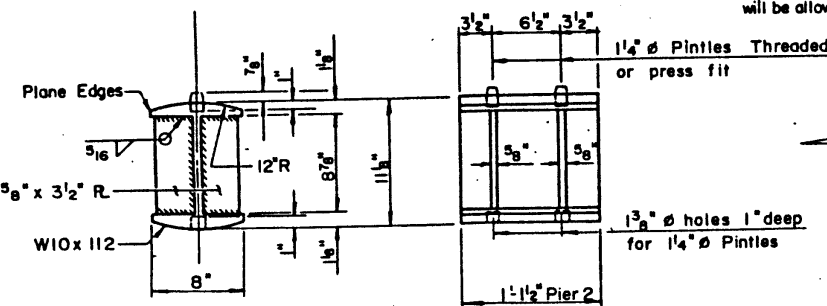
$D \times = 1/100$ ft. of exp. for every
15° below the normal temp.
50° F.
 $D \times \times = 1/100$ ft. of exp. for every
15° above the normal temp.
50° F.



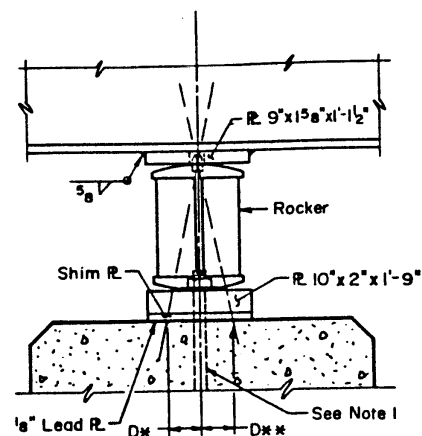
SECTION A-A



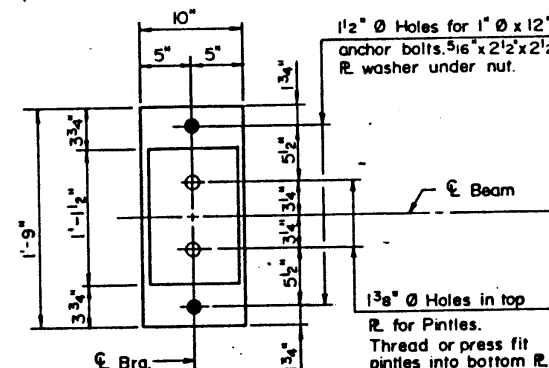
SIDE RETAINER
Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



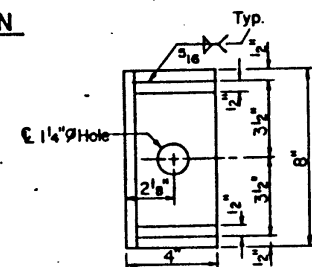
ROCKER DETAILS
PIER 2
(2 Req'd.)



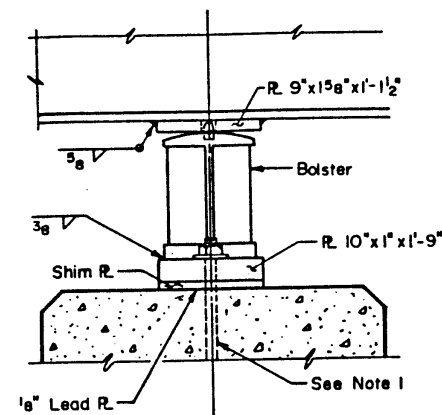
SECTION AT PIER 2



PLAN
Pier 2

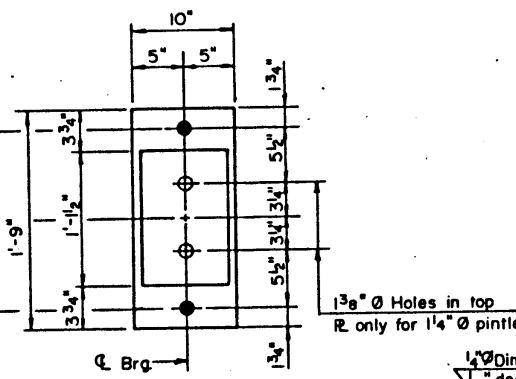


PINTLE DETAIL

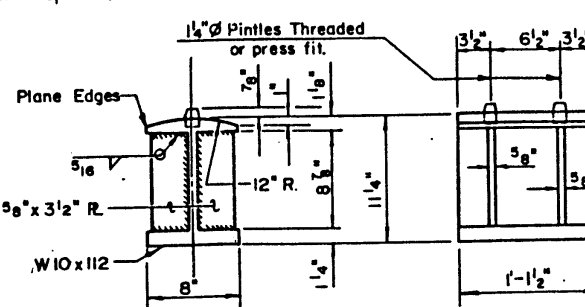


SECTION AT PIER 1

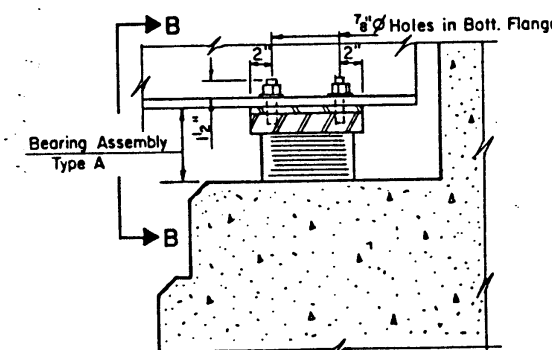
Note 1: 1/2" x 12" Anchor Bolts to be grouted
into drilled holes after beams are
in place, or bolts at fixed pier may
be built into the masonry.



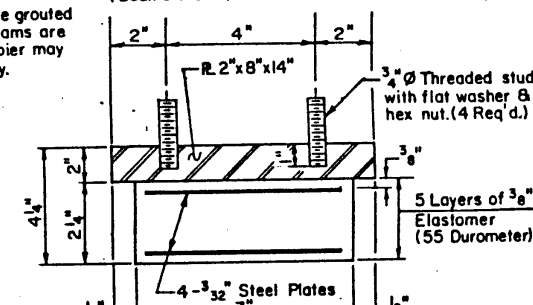
PLAN
Pier 1



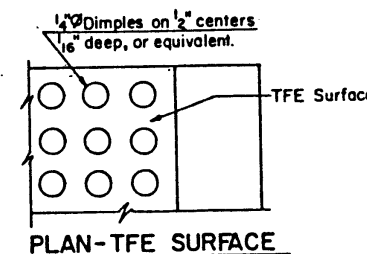
BOLSTER DETAILS
PIER 1
(2 Req'd.)



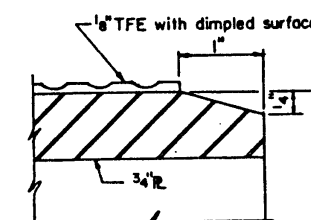
SEC. AT WEST ABUT.
(Beams 1 & 2)



BEARING ASSEMBLY-TYPE A
WEST ABUT.
(20 Req'd.)



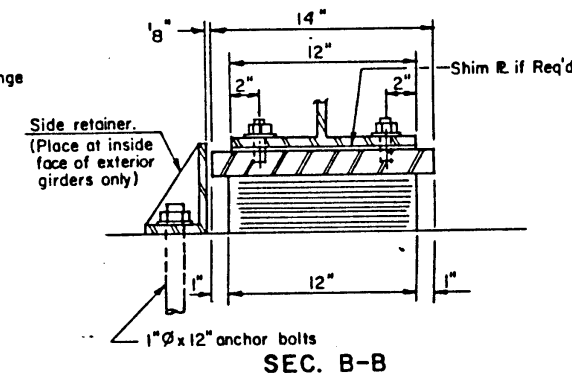
PLAN-TFE SURFACE



SECTION THRU TFE

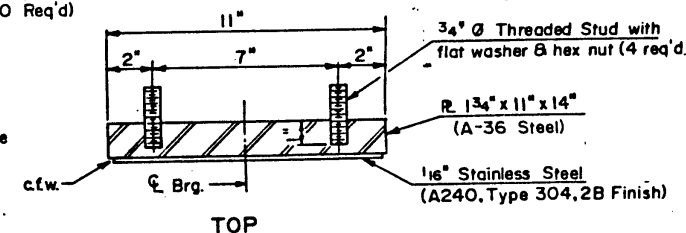
Note: The 1/2" TFE sheet shall be bonded directly to
the top steel plate with a two-component, medium
viscosity epoxy resin, conforming to the requirements
of the Federal Specification MMM-A-134, Type 1.
The bond agent shall be applied on the full area of
the contact surfaces.

Bonding of 1/2" TFE during vulcanizing process
will be permitted provided the process and method
of adjusting assembly height is approved by the
Engineer.

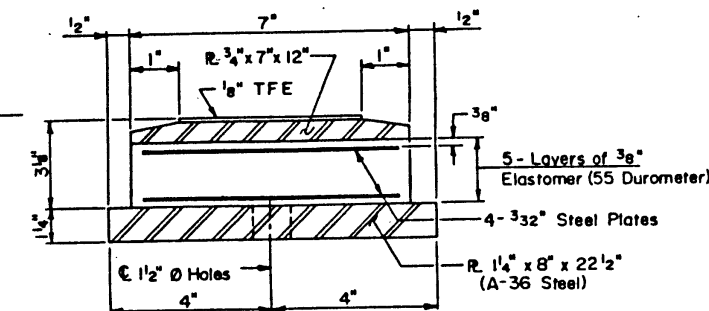


SEC. B-B

For Bolster Details at Existing
Bearings, See Sheet S-1C-2-3



TOP



BOTTOM

BEARING ASSEMBLY-TYPE B
EAST ABUT.
(20 Req'd.)

1st	2nd	3rd
DRB	DRB	DRB
WH	WH	WH
ROL	ROL	ROL
FG	FG	FG
GSA	GSA	GSA

DRAWN G.M.G.
CHECKED D.R.B.

DATE FEB 1987
SCALE NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS

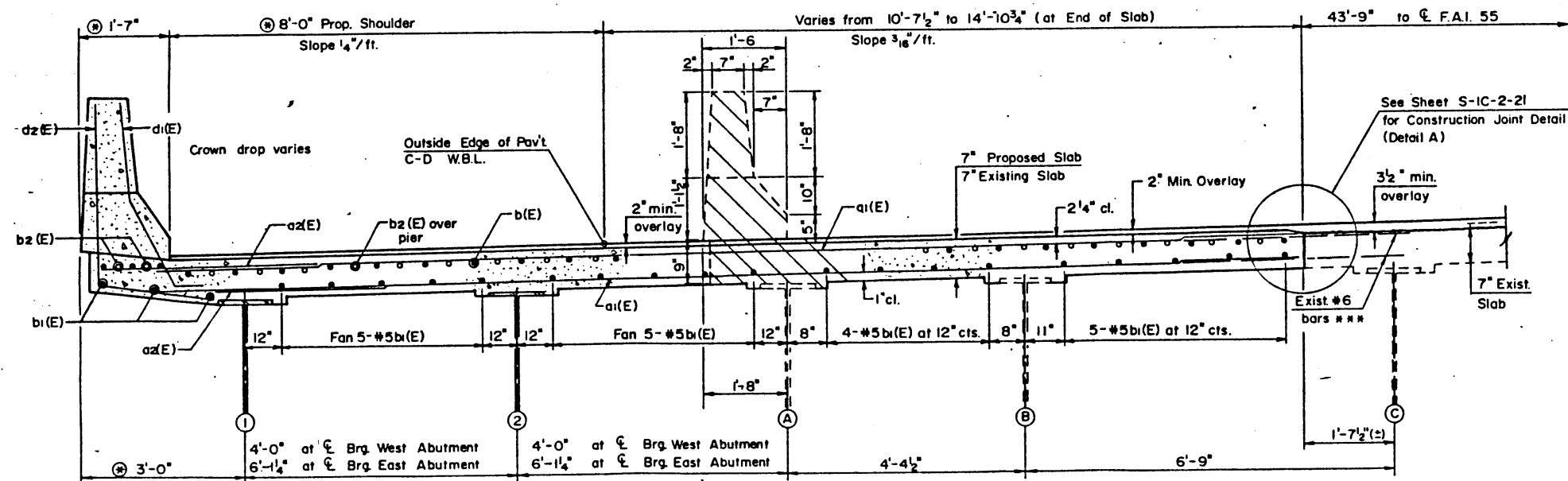
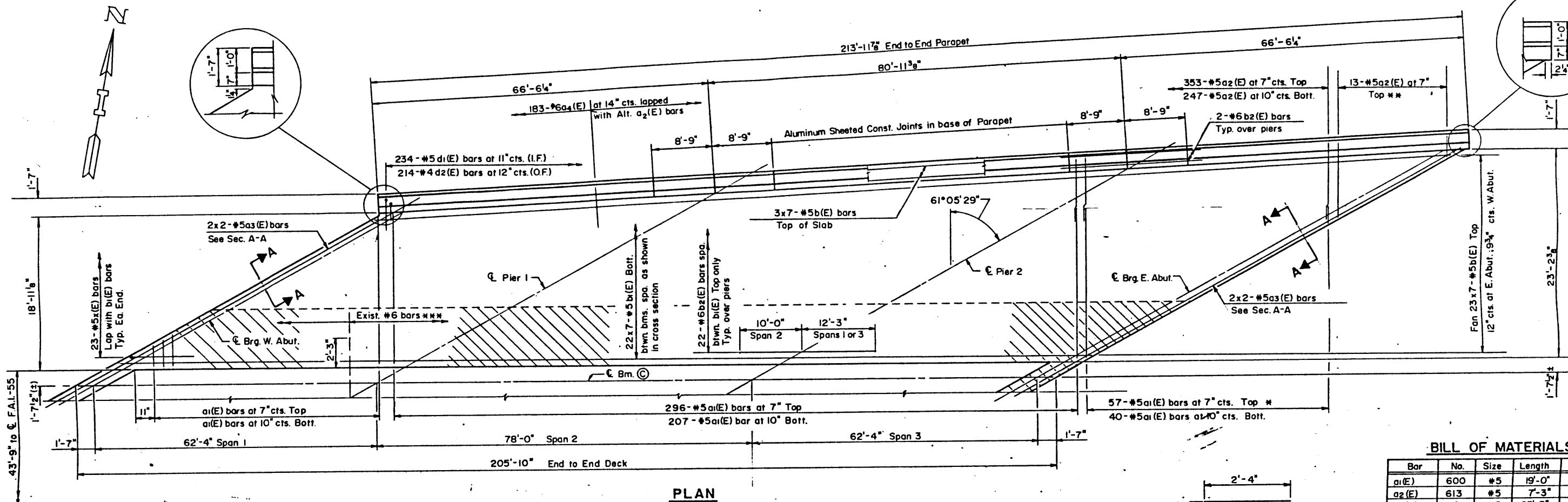


THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611
F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
BEARING DETAILS

S-1C-2-II
DRAWING NO.
446 OF 527



⊗ Indicates dimensions given perpendicular to Outside Edge of Pav't. C-D W.B.L.

Hatched area indicates Concrete Removal

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
a1(E)	600	#5	19'-0"	—
a2(E)	613	#5	7'-3"	—
a3(E)	8	#5	25'-3"	—
a4(E)	183	#6	4'-0"	—
b1(E)	182	#5	32'-6"	—
b2(E)	154	#5	32'-3"	—
b2(E)	48	#6	22'-3"	—
d1(E)	234	#5	4'-2"	—
d2(E)	214	#4	4'-8"	—
x(E)	46	#5	3'-0"	—
ITEM		UNIT	QUANTITY	
Class D Concrete		Cu Yd.	109.3	
Reinf. Steel, Epoxy Coated		Lbs.	32,660	
Concrete Removal		Cu Yds.	73	

- * Cut a1(E) bars in the field to fit skew and use remainder of bars in opposite end.
- ** Cut a2(E) bars in field to fit skew and use remainder of bars in bottom of slab at 10" cts.
- *** Exist. #6 bars at 7" cts. Top & Bott. Cut off 2'-3" from removal line. Clean by sandblasting to gray metal & incorporate into new constr. Cost incidental to Reinforcing Steel.

See Sheet S-IC-2-13 For Sec. A-A.

1st	2nd	3rd
Designed or Checked by	DRB/DRB WH	DRB/DRB WH
Drawn or Corrected by	RD/LG/SARDL	

DRAWN... G.M.G.
CHECKED... W.H.

DATE... FEB 1987
SCALE... NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

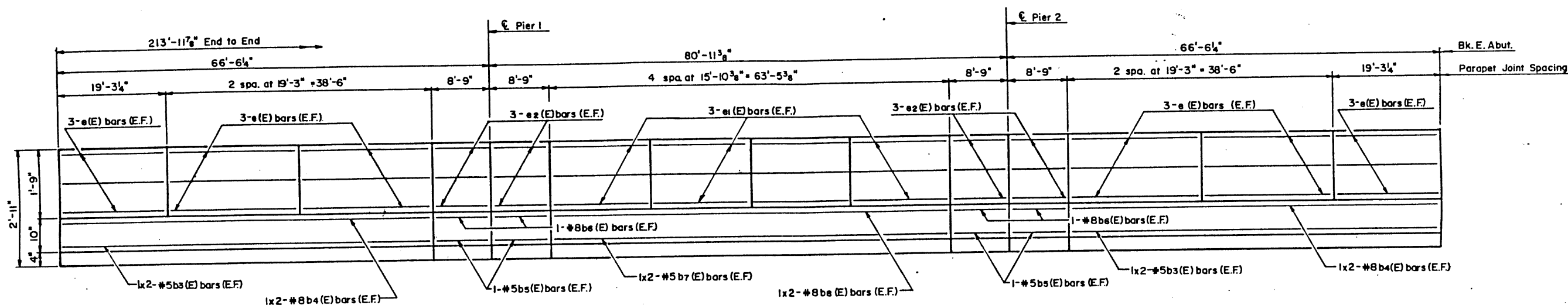
REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611
F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NOS.
DECK WIDENING

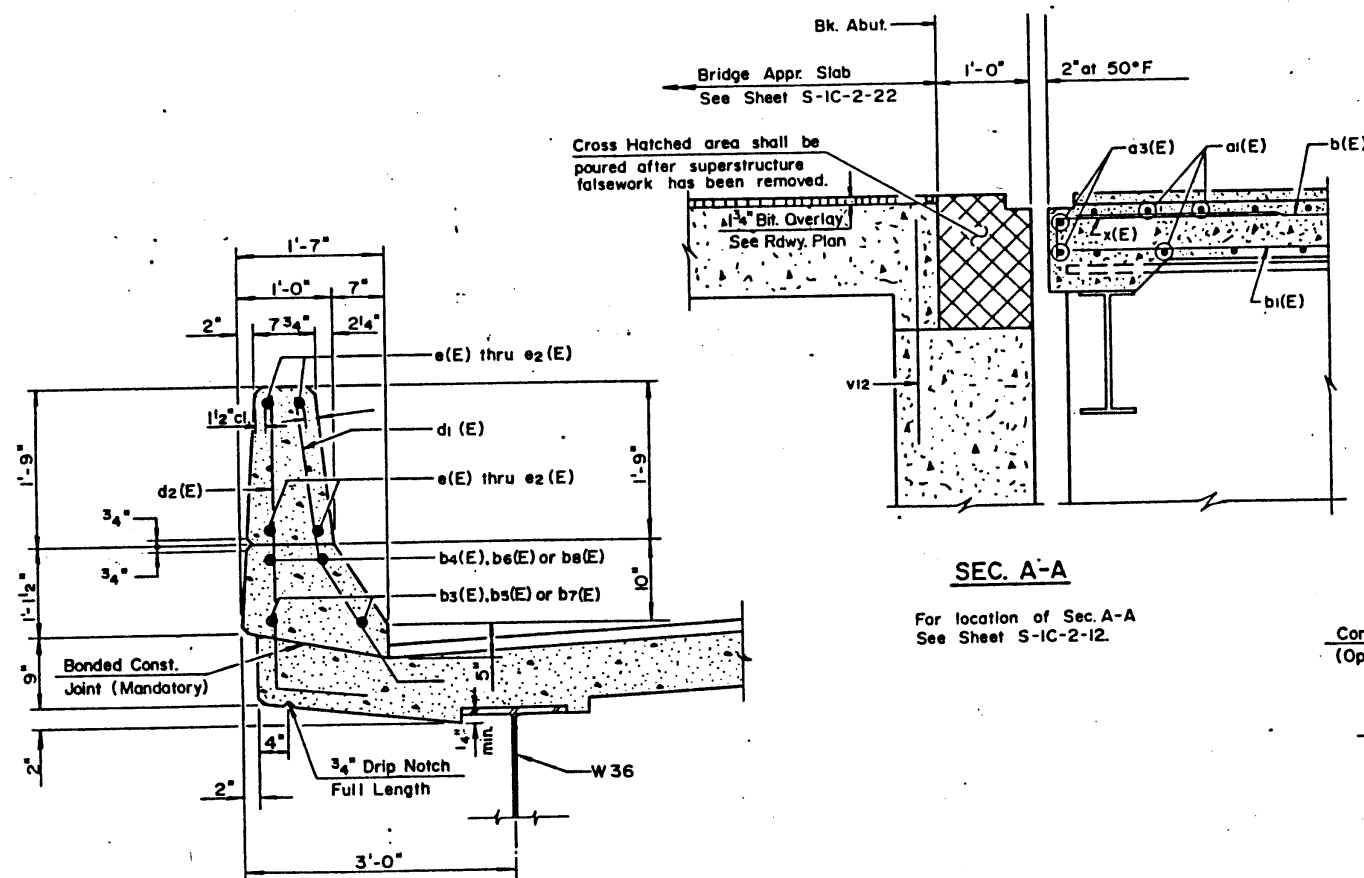
S-IC-2-12

DRAWING NO.
447 OF 527

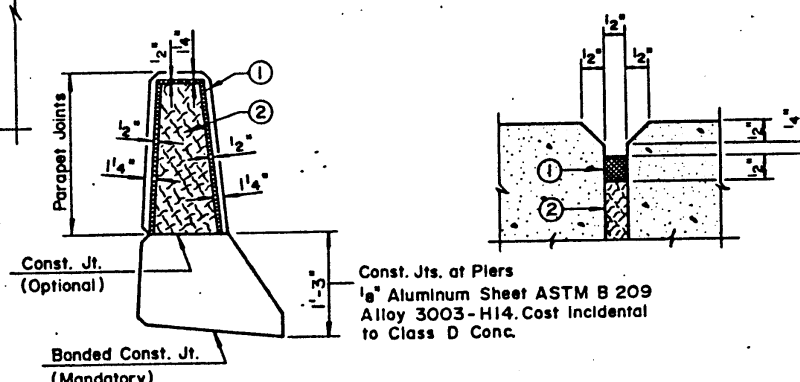
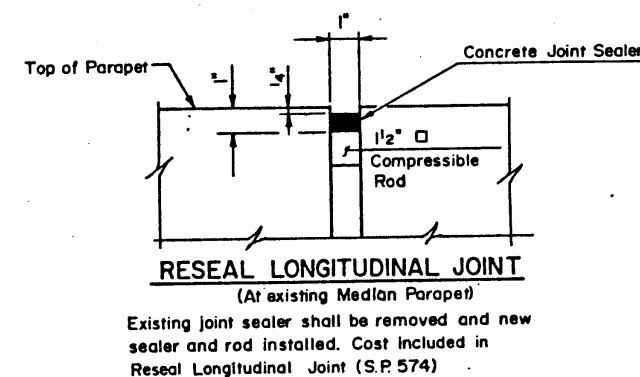
W3L



ELEVATION
(Inside View)



SECTION THRU OUTSIDE PARAPET



PARAPET JOINT DETAILS

- ① Two component non-staining gray sealing compound with polysulfide liquid polymer gun grade with primer.
- ② 1/2\" Preformed Cork Jt. Filler (in accordance with Art. 715.07 or 715.08 of I.D.O.T. Std. Specs.) Cost incidental to Class D Concrete.

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
b3(E)	8	#5	29'-9"	
b4(E)	8	#8	31'-0"	
b5(E)	8	#5	8'-6"	
b6(E)	8	#8	8'-6"	
b7(E)	4	#5	32'-9"	
b8(E)	4	#8	33'-9"	
e(E)	36	#4	19'-0"	
e1(E)	24	#4	15'-6"	
e2(E)	24	#4	8'-6"	
ITEM			UNIT	QUANTITY
Reinf. Steel, Epoxy Coated			Lbs.	2,500
Class D Concrete			Cu. Yd.	237
Reseal Long. Joint			Lin. Ft.	207

1st	2nd	3rd
Designed or Checked by	DRB	DRB
Drawn or Corrected by	RDL	RDL
	G.C.	G.C.

DRAWN R.D.L.
CHECKED DR.B.

DATE FEB. 1987
SCALE NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS

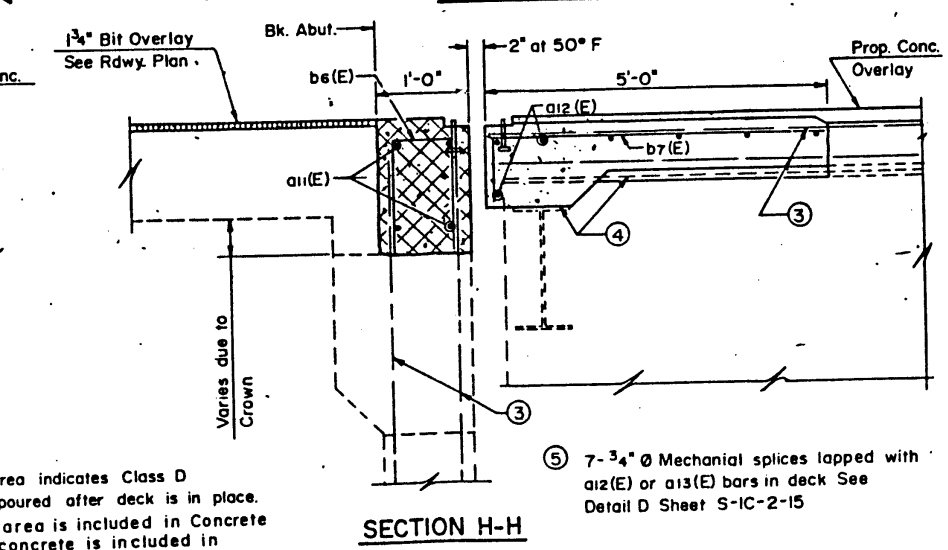
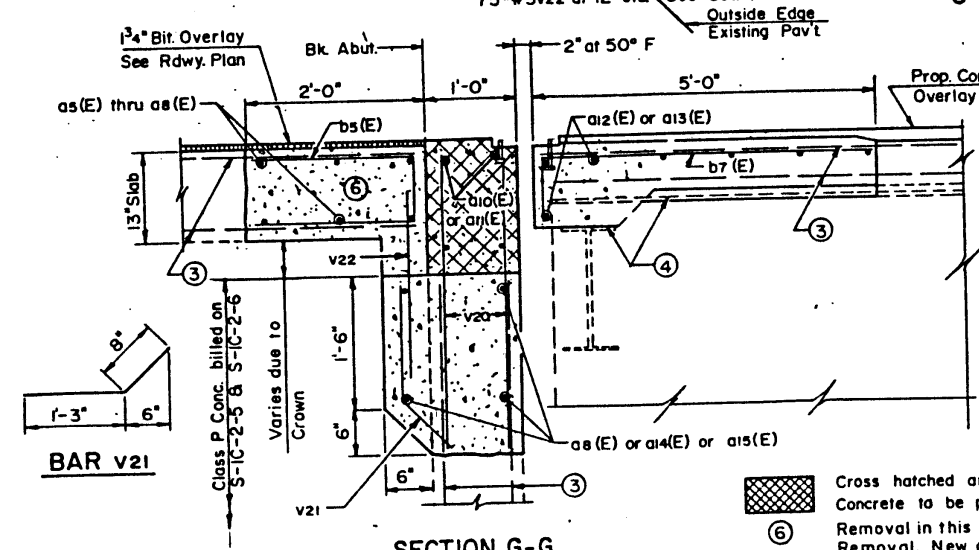
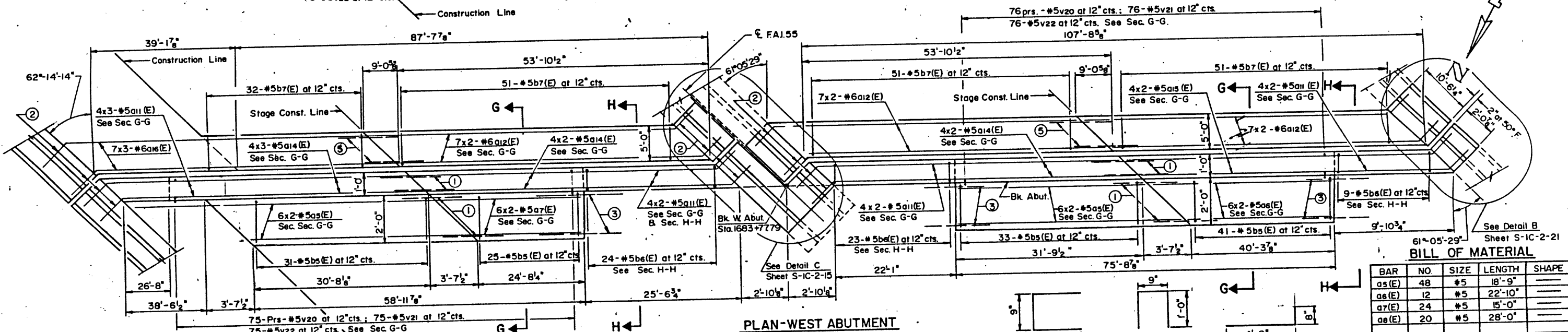
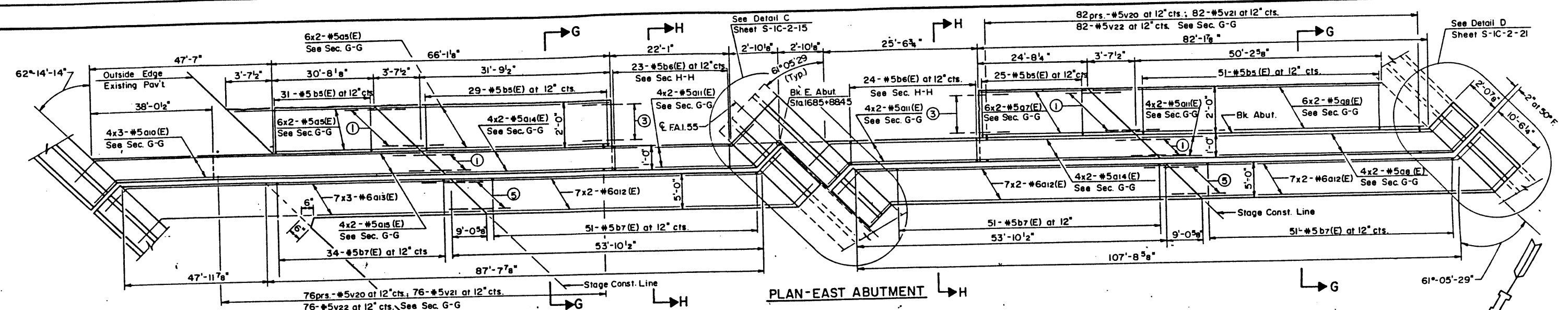


THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611
F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NOS.
PARAPET DETAILS

S-IC-2-13
DRAWING NO.
448 527
OF

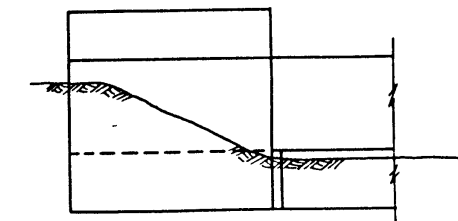
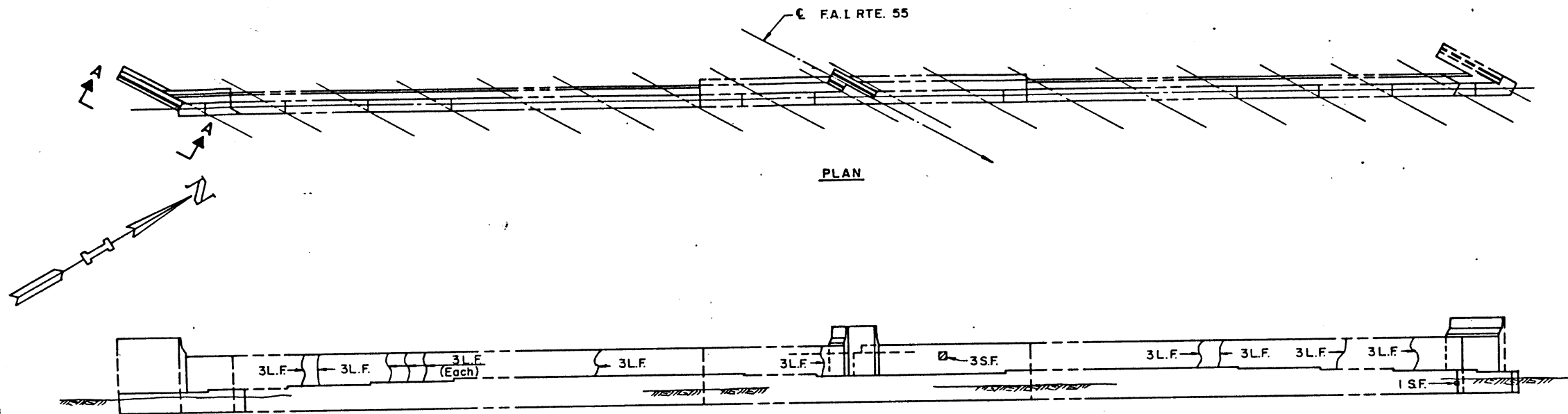


BILL OF MATERIAL

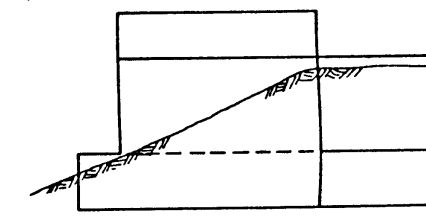
BAR	NO.	SIZE	LENGTH	SHAPE
a5(E)	48	#5	18'-9"	
a6(E)	12	#5	22'-10"	
a7(E)	24	#5	15'-0"	
a8(E)	20	#5	28'-0"	
a10(E)	12	#5	30'-0"	
a11(E)	60	#5	28'-6"	
a12(E)	84	#6	28'-9"	
a13(E)	21	#6	30'-6"	
a14(E)	44	#5	17'-0"	
a15(E)	16	#5	25'-0"	
a16(E)	21	#6	26'-3"	
b5(E)	266	#5	4'-1"	C
b6(E)	103	#5	2'-9"	C
b7(E)	372	#5	5'-4"	
d10(E)	12	#5	5'-3"	
d11(E)	66	#4	4'-6"	
d12(E)	72	#5	4'-0"	
d13(E)	10	#5	4'-4"	
v20	618	#5	3'-0"	
v21	309	#5	1'-11"	
v22	309	#5	2'-0"	
Reinf. Steel		Lbs.		3200
Reinf. Steel, Epoxy Ctd.		Lbs.		15140
Class D, Concrete		Cu. Yds.		110.5
Concrete Removal		Cu. Yds.		81.8
Bridge Exp. Jt. Closure				
Neoprene 2"		Lin. Ft.		500

Work this Sheet with Sheets S-IC-2-15 & S-IC-2-21

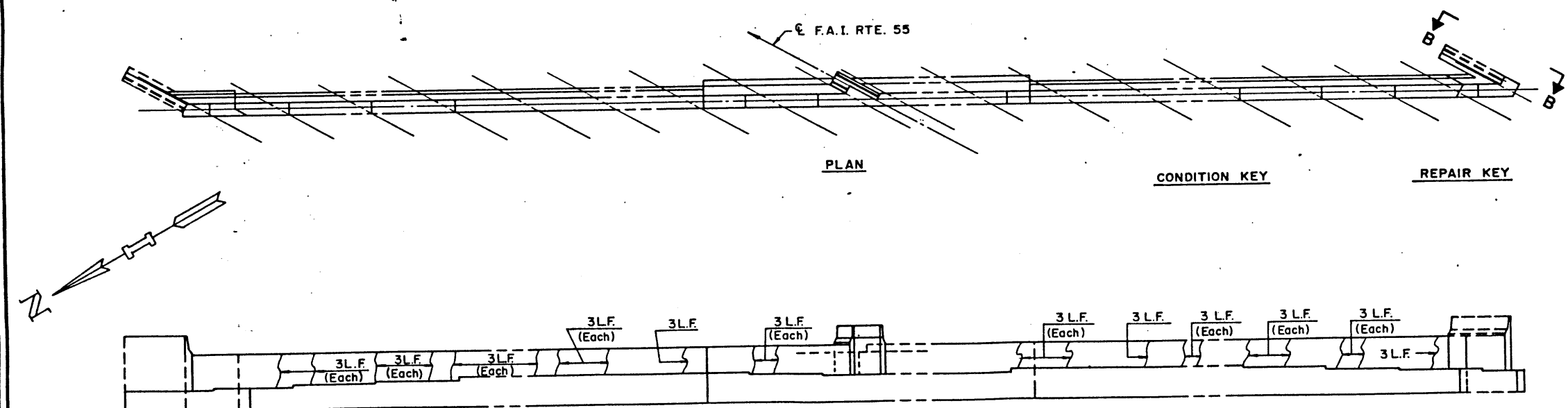
Rev.	1st	2nd	3rd
Designed or Checked by	DRB/DBB	WH	
Drawn or Corrected by	RDL/RDL	RDL	



No Repair Req'd.



No Repair Req'd.



CONDITION KEY

REPAIR KEY

BILL OF MATERIALS

ITEM	UNIT	TOTAL
* Formed Concrete Repairs	Cu.Ft.	36
Low Pressure Epoxy Injection	Lin.Ft.	413
Pneumatically Applied Concrete	Sq. Ft.	41

NOTE: Work this Sheet with S-IC-2-17

All repair dimensions are approximate.

* All FORMED CONCRETE REPAIRS are assumed to be 6 inches in depth for the purpose of estimating quantities. Actual depths may vary.

LEGEND OF REPAIRS

- Indicates LOW PRESSURE EPOXY INJECTION
- Indicates PNEUMATICALLY APPLIED CONCRETE
- Indicates FORMED CONCRETE REPAIR

Revise	1st	2nd	3rd
Drawn or Checked by	DRB	DRB	W.H.
Drawn or Corrected by	RHH	GSA	RRH

DRAWN R.H.H.

CHECKED D.R.B.

DATE FEB 1987

SCALE NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP - 611

F.A.I. RTE. 55 OVER JOLIET ROAD
BRIDGE NO.
SUBSTRUCTURE REPAIR

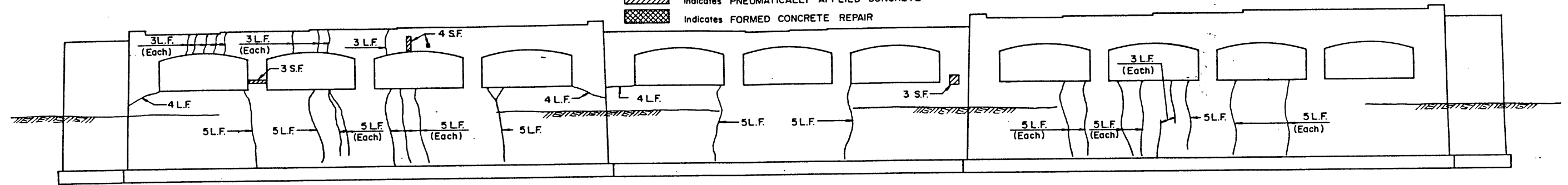
S-IC-2-16

DRAWING NO.

451 of 527

LEGEND OF REPAIRS

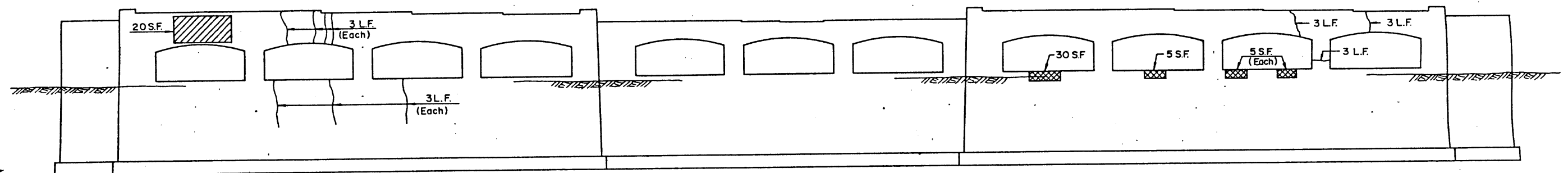
- Indicates LOW PRESSURE EPOXY INJECTION
- Indicates PNEUMATICALLY APPLIED CONCRETE
- Indicates FORMED CONCRETE REPAIR



EAST BOUND LANES

PIER 1-LOOKING WEST

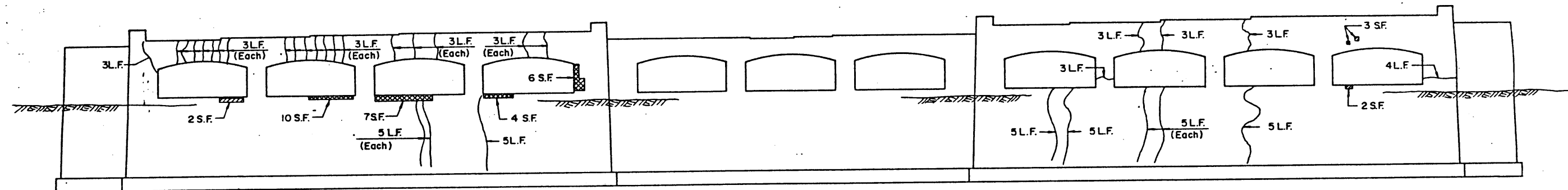
WEST BOUND LANES



WEST BOUND LANES

PIER 1-LOOKING EAST

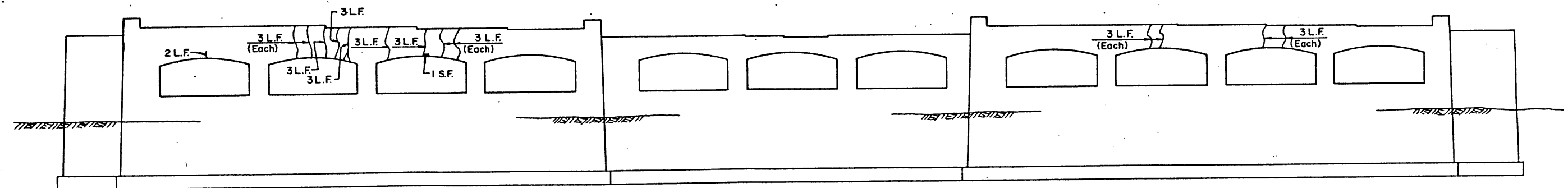
EAST BOUND LANES



WEST BOUND LANES

PIER 2-LOOKING EAST

EAST BOUND LANES



EAST BOUND LANES

PIER 2-LOOKING WEST

WEST BOUND LANES

1st	2nd	3rd
Designed or Checked by	DRB	DRB
Drawn or Corrected by	RDL	GSA
	RHH	

DRAWN RDL
CHECKED DRB

DATE FEB 1987
SCALE NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

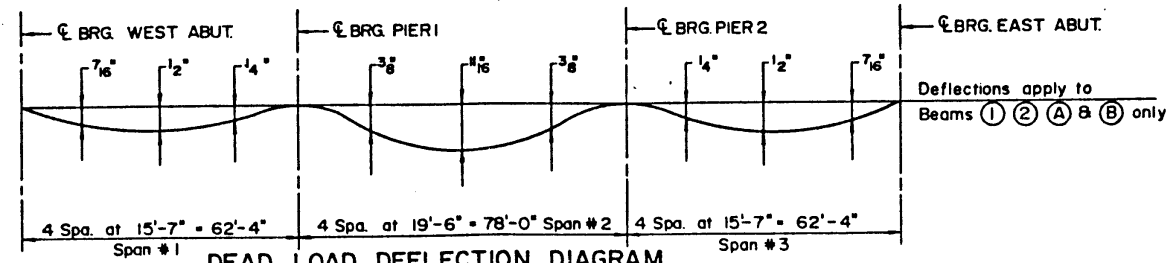
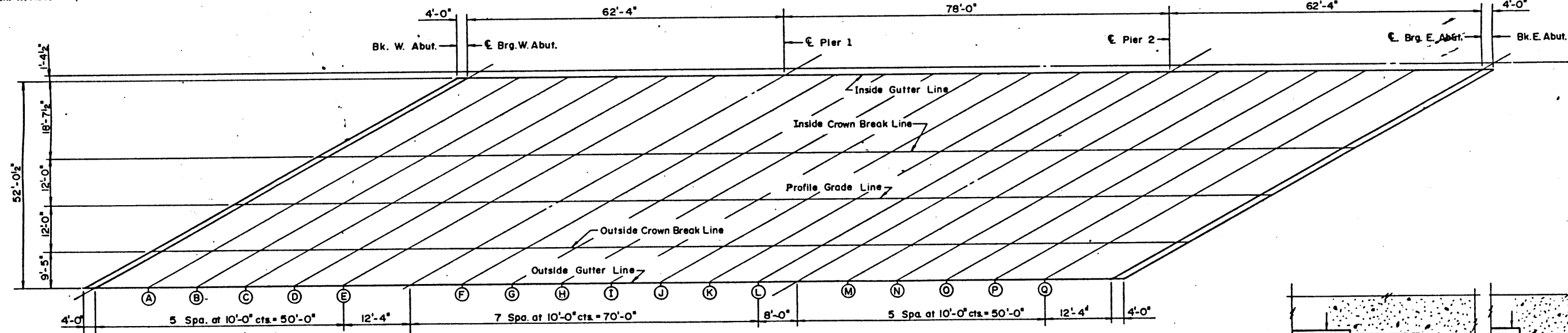
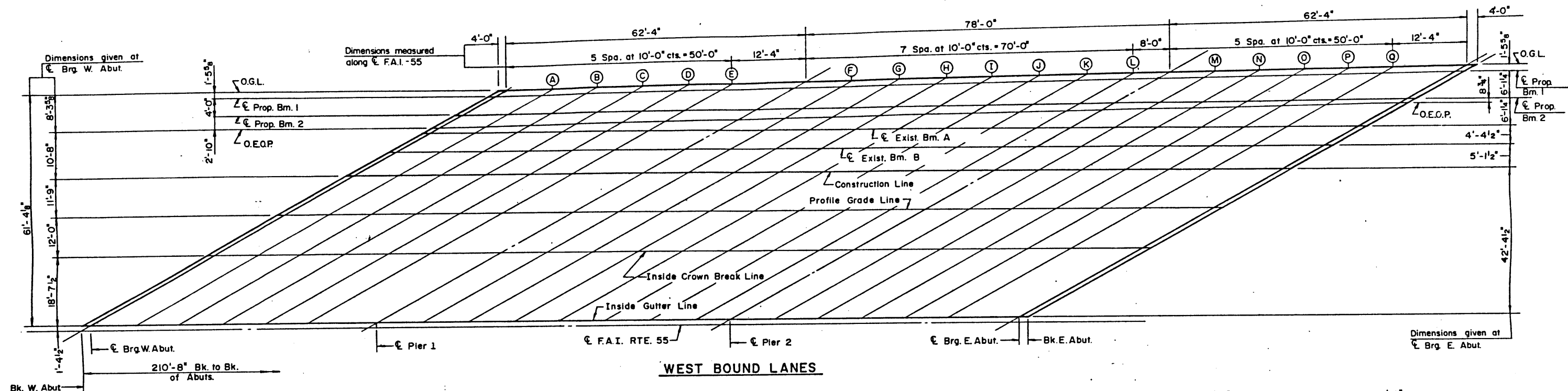
Work this Sheet with S-IC-2-16

CONTRACT CIP-611

FAI ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
SUBSTRUCTURE REPAIR

S-IC-2-17

DRAWING NO.
452 OF 527



OUTSIDE GUTTER LINE - W.B.L.				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEV'S ADJ. FOR DL DEFLECTION
BK. W. ABUT.	1684+91.207	30.632	751.107	751.107
CL BRG. W. ABUT.	1684+95.358	30.715	751.143	751.143
A	1685+05.734	30.922	751.234	751.257
B	1685+16.112	31.130	751.324	751.362
C	1685+26.489	31.337	751.415	751.456
D	1685+36.866	31.545	751.505	751.535
E	1685+47.233	31.752	751.597	751.613
CL PIER 1	1685+60.030	32.008	751.709	751.709
F	1685+70.406	32.216	751.799	751.815
G	1685+80.784	32.423	751.89	751.922
H	1685+91.161	32.631	751.98	752.026
I	1686+01.538	32.838	752.071	752.127
J	1686+11.915	33.046	752.163	752.205
K	1686+22.292	33.253	752.253	752.282
L	1686+32.669	33.461	752.344	752.357
CL PIER 2	1686+40.960	33.627	752.416	752.416
M	1686+51.337	33.834	752.507	752.52
N	1686+61.714	34.042	752.598	752.624
O	1686+72.091	34.249	752.689	752.729
P	1686+82.468	34.457	752.78	752.818
Q	1586+92.845	34.664	752.87	752.899
CL BRG. E. ABUT.	1687+05.632	34.920	752.982	752.982
BK. E. ABUT.	1687+09.783	35.003	753.018	753.018

BEAM 1-W.B.L.				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEV'S ADJ. FOR DL DEFLECTION
BK. W. ABUT.	1684+88.545	29.162	751.114	751.114
CL BRG. W. ABUT.	1684+92.695	29.245	751.15	751.15
A	1685+03.072	29.452	751.24	751.264
B	1685+13.449	29.660	751.331	751.369
C	1685+23.826	29.867	751.422	751.463
D	1685+34.203	30.075	751.512	751.542
E	1685+44.58	30.282	751.604	751.62
CL PIER 1	1685+57.367	30.538	751.716	751.716
F	1685+67.744	30.746	751.806	751.822
G	1685+78.121	30.953	751.897	751.929
H	1685+88.498	31.161	751.987	752.033
I	1685+98.875	31.368	752.078	752.134
J	1686+09.252	31.576	752.17	752.212
K	1686+19.629	31.783	752.26	752.289
L	1686+30.006	31.991	752.351	752.364
CL PIER 2	1686+38.298	32.157	752.423	752.423
M	1686+48.675	32.364	752.514	752.527
N	1686+59.052	32.572	752.604	752.63
O	1686+69.429	32.779	752.696	752.736
P	1686+79.806	32.987	752.787	752.825
Q	1686+90.183	33.194	752.877	752.906
CL BRG. E. ABUT.	1687+02.97	33.450	752.99	752.989
BK. E. ABUT.	1687+07.12	33.533	753.026	753.022

BEAM 2-WB.L				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEV' ADJ. FOR DL DEFLECTION
BK. W. ABUT.	1684+81.382	25.206	751.131	751.131
CL BRG. W. ABUT.	1684+85.452	25.250	751.167	751.167
A	1684+95.640	25.354	751.259	751.313
B	1685+05.828	25.458	751.349	751.387
C	1685+16.018	25.561	751.441	751.482
D	1685+26.206	25.665	751.532	751.561
E	1685+36.394	25.769	751.623	751.64
CL PIER 1	1685+48.952	25.894	751.74	751.74
F	1685+59.140	25.998	751.827	751.843
G	1685+69.328	26.102	751.918	751.95
H	1685+79.518	26.205	752.009	752.054
I	1685+89.706	26.309	752.101	752.157
J	1685+99.894	26.413	752.192	752.235
K	1686+10.083	26.516	752.283	752.311
L	1686+20.272	26.620	752.374	752.387
CL PIER 2	1686+28.417	26.704	752.447	752.447
M	1686+38.605	26.808	752.539	752.553
N	1686+48.794	26.912	752.629	752.656
O	1686+58.982	27.015	752.721	752.762
P	1686+69.171	27.119	752.812	752.851
Q	1686+79.360	27.223	752.903	752.931
CL BRG. E. ABUT.	1686+91.932	27.350	753.016	753.003
BK. E. ABUT	1686+96.002	27.391	753.052	753.04

OUTSIDE EDGE OF PAVEMENT - S.B.L.				
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEV'S ADJ. FOR DL DEFLECTION
BK. W. ABUT.	1684+76.173	22.330	751.144	751.144
CL BRG. W. ABUT.	1684+80.324	22.413	751.18	751.18
A	1684+90.700	22.620	751.271	751.295
B	1685+01.076	22.828	751.362	751.4
C	1685+11.451	23.035	751.452	751.493
D	1685+21.827	23.243	751.543	751.573
E	1685+32.203	23.450	751.634	751.65
CL PIER 1	1685+44.996	23.706	751.746	751.746
F	1685+55.372	23.914	751.837	751.853
G	1685+65.748	24.121	751.927	751.959
H	1685+76.123	24.329	752.018	752.064
I	1685+86.499	24.536	752.109	752.165
J	1685+96.875	24.744	752.199	752.241
K	1686+07.251	24.951	752.291	752.32
L	1686+17.626	25.159	752.381	752.394
CL PIER 2	1686+25.926	25.323	752.454	752.454
M	1686+36.303	25.530	752.545	752.558
N	1686+46.680	25.738	752.635	752.661
O	1686+57.057	25.946	752.726	752.766
P	1686+67.434	26.153	752.817	752.855
Q	1686+77.811	26.360	752.908	752.937
CL BRG. E. ABUT.	1686+90.598	26.618	753.02	753.02
BK. E. ABUT.	1686+94.749	26.701	753.056	753.056

row	1st	2nd	3rd
Designed or Checked by	DRB	DRB	DRB
Drawn or Corrected by	RDL	RDL	RDL

DRAWN R.D.L.		DATE FEB. 1987	MTA, INCORPORATED CONSULTING ENGINEERS CHICAGO - SPRINGFIELD - INDIANAPOLIS	 THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY EAST-WEST TOLLWAY AND MIDWEST ROAD OAK BROOK, ILLINOIS 60521	REVISIONS			CONTRACT CIP-611 F.A.I. RTE. 55 OVER JOLIET ROAD BRIDGE NOS. DECK ELEVATIONS	DRAWING NO. 454 OF 527
CHECKED D.R.B.		SCALE NO SCALE			NO.	DATE	DESCRIPTION		

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEV'S ADJ. FOR D.L. DEFLECTION
BK. W. ABUT.	1684+74.218	21.250	751.142	751.142
CL BRG. W. ABUT.	1684+78.218	21.250	751.179	751.179
A	1684+88.218	21.250	751.269	751.293
B	1684+98.218	21.250	751.360	751.398
C	1685+08.218	21.250	751.450	751.492
D	1685+18.218	21.250	751.541	751.571
E	1685+28.218	21.250	751.632	751.648
CL PIER 1	1685+40.548	21.250	751.743	751.743
F	1685+50.548	21.250	751.834	751.850
G	1685+60.548	21.250	751.925	751.957
H	1685+70.548	21.250	752.015	752.060
I	1685+80.548	21.250	752.106	752.162
J	1685+90.548	21.250	752.196	752.239
K	1686+00.548	21.250	752.287	752.316
L	1586+10.548	21.250	752.378	752.390
CL PIER 2	1686+18.548	21.250	752.450	752.450
M	1686+28.548	21.250	752.541	752.554
N	1686+38.548	21.250	752.631	752.658
O	1686+48.548	21.250	752.722	752.762
P	1686+58.548	21.250	752.812	752.851
Q	1686+68.548	21.250	752.903	752.932
CL BRG. E. ABUT.	1686+80.878	21.250	753.015	753.015
BK. E. ABUT.	1686+84.878	21.250	753.051	753.051

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEV'S ADJ. FOR D.L. DEFLECTION
BK. W. ABUT.	1684+66.295	16.875	751.139	751.139
CL BRG. W. ABUT.	1684+70.295	16.875	751.175	751.175
A	1684+80.295	16.875	751.265	751.289
B	1684+90.295	16.875	751.356	751.394
C	1685+00.295	16.875	751.447	751.488
D	1685+10.295	16.875	751.537	751.567
E	1685+20.295	16.875	751.628	751.644
CL PIER 1	1685+32.625	16.875	751.740	751.740
F	1685+42.625	16.875	751.830	751.846
G	1685+52.625	16.875	751.921	751.953
H	1685+62.625	16.875	752.011	752.057
I	1685+72.625	16.875	752.102	752.158
J	1685+82.625	16.875	752.193	752.235
K	1685+92.625	16.875	752.283	752.312
L	1686+02.625	16.875	752.374	752.387
CL PIER 2	1686+10.625	16.875	752.446	752.446
M	1686+20.625	16.875	752.537	752.550
N	1686+30.625	16.875	752.627	752.654
O	1686+40.625	16.875	752.718	752.758
P	1686+50.625	16.875	752.809	752.847
Q	1686+60.625	16.875	752.899	752.928
CL BRG. E. ABUT.	1686+72.955	16.875	753.011	753.011
BK. E. ABUT.	1686+76.955	16.875	753.047	753.047

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1684+57.015	11.750	751.135
CL BRG. W. ABUT.	1684+61.015	11.750	751.171
A	1684+71.015	11.750	751.261
B	1684+81.015	11.750	751.352
C	1684+91.015	11.750	751.443
D	1685+01.015	11.750	751.533
E	1685+11.015	11.750	751.624
CL PIER 1	1685+23.345	11.750	751.736
F	1685+33.345	11.750	751.826
G	1685+43.345	11.750	751.917
H	1685+53.345	11.750	752.007
I	1685+63.345	11.750	752.098
J	1685+73.345	11.750	752.189
K	1685+83.345	11.750	752.279
L	1685+93.345	11.750	752.370
CL PIER 2	1686+01.345	11.750	752.442
M	1686+11.345	11.750	752.533
N	1686+21.345	11.750	752.623
O	1686+31.345	11.750	752.714
P	1686+41.345	11.750	752.805
Q	1686+51.345	11.750	752.895
CL BRG. E. ABUT.	1686+63.675	11.750	753.007
BK. E. ABUT.	1686+67.675	11.750	753.043

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1684+35.737	0.000	751.126
CL BRG. W. ABUT.	1684+39.727	3.000	751.162
A	1684+49.737	0.000	751.253
B	1684+59.737	0.000	751.343
C	1684+69.737	0.000	751.434
D	1684+79.737	0.000	751.524
E	1684+89.737	3.000	751.615
CL PIER 1	1685+02.067	0.000	751.727
F	1685+12.067	0.000	751.817
G	1685+22.067	0.000	751.908
H	1685+32.067	0.000	751.999
I	1685+42.067	0.000	752.089
J	1685+52.067	0.000	752.180
K	1685+62.067	0.000	752.270
L	1685+72.067	0.000	752.361
CL PIER 2	1685+80.067	0.000	752.433
M	1685+90.067	0.000	752.524
N	1686+00.067	0.000	752.615
O	1686+10.067	0.000	752.705
P	1686+20.067	0.000	752.796
Q	1686+30.067	0.000	752.886
CL BRG. E. ABUT.	1686+42.397	0.000	752.998
BK. E. ABUT.	1686+46.397	0.000	753.034

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1684+14.007	-12.000	750.741
CL BRG. W. ABUT.	1684+18.007	-12.000	750.777
A	1684+28.007	-12.000	750.868
B	1684+38.007	-12.000	750.958
C	1684+48.007	-12.000	751.049
D	1684+58.007	-12.000	751.140
E	1684+68.007	-12.000	751.230
CL PIER 1	1684+80.337	-12.000	751.342
F	1684+90.337	-12.000	751.432
G	1685+00.337	-12.000	751.523
H	1685+10.337	-12.000	751.614
I	1685+20.337	-12.000	751.704
J	1685+30.337	-12.000	751.795
K	1685+40.337	-12.000	751.885
L	1685+50.337	-12.000	751.976
CL PIER 2	1685+58.337	-12.000	752.049
M	1685+68.337	-12.000	752.139
N	1685+78.337	-12.000	752.230
O	1685+88.337	-12.000	752.320
P	1685+98.337	-12.000	752.411
Q	1686+08.337	-12.000	752.502
CL BRG. E. ABUT.	1686+20.667	-12.000	752.613
BK. E. ABUT.	1686+24.667	-12.000	752.649

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1683+80.280	-30.625	750.047
CL BRG. W. ABUT.	1683+84.280	-30.625	750.084
A	1683+94.280	-30.625	750.174
B	1684+04.280	-30.625	750.265
C	1684+14.280	-30.625	750.355
D	1684+24.280	-30.625	750.446
E	1684+34.280	-30.625	750.537
CL PIER 1	1684+46.610	-30.625	750.648
F	1684+56.610	-30.625	750.739
G	1684+66.610	-30.625	750.829
H	1684+76.610	-30.625	750.920
I	1684+86.610	-30.625	751.011
J	1684+96.610	-30.625	751.101
K	1685+06.610	-30.625	751.192
L	1685+16.610	-30.625	751.282
CL PIER 2	1685+24.610	-30.625	751.355
M	1685+34.610	-30.625	751.446
N	1685+44.610	-30.625	751.536
O	1685+54.610	-30.625	751.627
P	1685+64.610	-30.625	751.717
Q	1685+74.610	-30.625	751.808
CL BRG. E. ABUT.	1685+86.940	-30.625	751.920
BK. E. ABUT.	1685+90.940	-30.625	751.956

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1683+75.300	30.625	750.002
CL BRG. W. ABUT.	1683+79.300	30.625	750.038
A	1683+89.300	30.625	750.129
B	1683+99.300	30.625	750.220
C	1684+09.300	30.625	750.310
D	1684+19.300	30.625	750.401
E	1684+29.300	30.625	750.491
CL PIER 1	1684+41.630	30.625	750.603
F	1684+51.630	30.625	750.694
G	1684+61.630	30.625	750.784
H	1684+71.630	30.625	750.875
I	1684+81.630	30.625	750.966
J	1684+91.630	30.625	751.056
K	1685+01.630	30.625	751.147
L	1685+11.630	30.625	751.237
CL PIER 2	1685+19.630	30.625	751.310
M	1685+29.630	30.625	751.400
N	1685+39.630	30.625	751.491
O	1685+49.630	30.625	751.582
P	1685+59.630	30.625	751.672
Q	1685+69.630	30.625	751.763
CL BRG. E. ABUT.	1685+81.960	30.625	751.875
BK. E. ABUT.	1685+85.960	30.625	751.911

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1683+41.573	12.000	750.085
CL BRG. W. ABUT.	1683+45.573	12.000	750.121
A	1683+55.573	12.000	750.211
B	1683+65.573	12.000	750.302
C	1683+75.573	12.000	750.393
D	1683+85.573	12.000	750.483
E	1683+95.573	12.000	750.574
CL PIER 1	1684+07.903	12.000	750.686
F	1684+17.903	12.000	750.776
G	1684+27.903	12.000	750.867
H	1684+37.903	12.000	750.957
I	1684+47.903	12.000	751.048
J	1684+57.903	12.000	751.139
K	1684+67.903	12.000	751.229
L	1684+77.903	12.000	751.320
CL PIER 2	1684+85.903	12.000	751.392
M	1684+95.903	12.000	751.483
N	1685+05.903	12.000	751.573
O	1685+15.903	12.000	751.664
P	1685+25.903	12.000	751.755
Q	1685+35.903	12.000	751.845
CL BRG. E. ABUT.	1685+48.233	12.000	751.957
BK. E. ABUT.	1685+52.233	12.000	751.993

DRAWN.....R.D.L.

CHECKED.....R.D.L.

DATE FEB 1987
SCALE NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO — SPRINGFIELD — INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

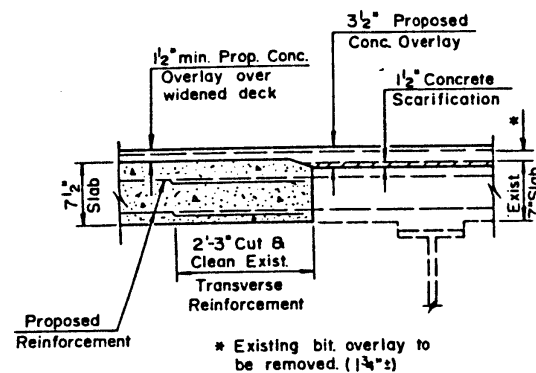
REVISIONS		
NO.	DATE	DESCRIPTION

F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
DECK ELEVATION

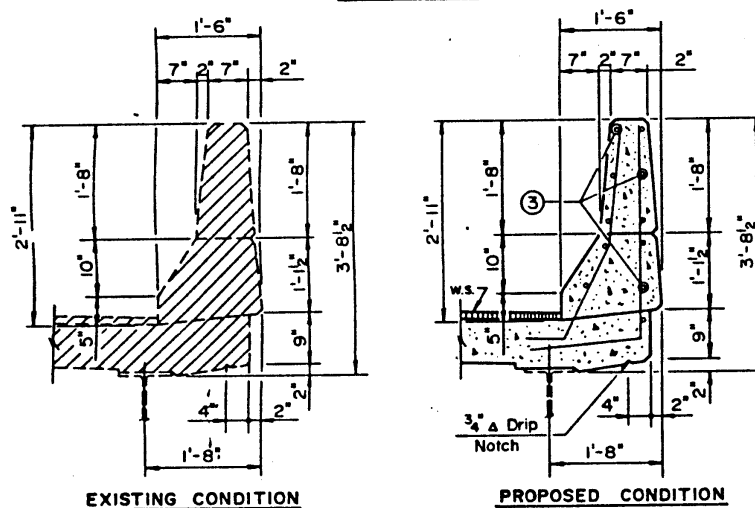
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DRAWING NO.

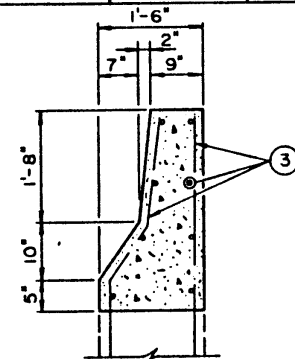
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DETAIL "A"



SEC. N-N



SEC. P-P

PROFILE GRADE LINE - E.B.L.

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1683+19.843	0.000	750.076
CL BRG. W. ABUT.	1683+23.843	0.000	750.112
A	1683+33.843	0.000	750.203
B	1683+43.843	0.000	750.293
C	1683+53.843	0.000	750.384
D	1683+63.843	0.000	750.474
E	1683+73.843	0.000	750.565
CL PIER 1	1683+86.173	0.000	750.677
F	1683+96.173	0.000	750.767
G	1684+06.173	0.000	750.858
H	1684+16.173	0.000	750.949
I	1684+26.173	0.000	751.039
J	1684+36.173	0.000	751.130
K	1684+46.173	0.000	751.220
L	1684+56.173	0.000	751.311
CL PIER 2	1684+64.173	0.000	751.383
M	1684+74.173	0.000	751.474
N	1684+84.173	0.000	751.565
O	1684+94.173	0.000	751.655
P	1685+04.173	0.000	751.746
Q	1685+14.173	0.000	751.836
CL BRG. E. ABUT.	1685+26.503	0.000	751.948
BK. E. ABUT.	1685+30.503	0.000	751.984

OUTSIDE CROWN BREAK LINE - E.B.L.

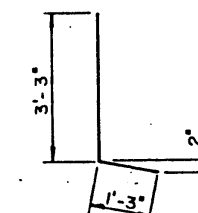
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1682+98.113	-12.000	749.691
CL BRG. W. ABUT.	1683+02.113	-12.000	749.727
A	1683+12.113	-12.000	749.818
B	1683+22.113	-12.000	749.908
C	1683+32.113	-12.000	749.999
D	1683+42.113	-12.000	750.090
E	1683+52.113	-12.000	750.180
CL PIER 1	1683+64.443	-12.000	750.292
F	1683+74.443	-12.000	750.382
G	1683+84.443	-12.000	750.473
H	1683+94.443	-12.000	750.564
I	1684+04.443	-12.000	750.654
J	1684+14.443	-12.000	750.745
K	1684+24.443	-12.000	750.835
L	1684+34.443	-12.000	750.926
CL PIER 2	1684+42.443	-12.000	750.999
M	1684+52.443	-12.000	751.089
N	1684+62.443	-12.000	751.180
O	1684+72.443	-12.000	751.270
P	1684+82.443	-12.000	751.361
Q	1684+92.443	-12.000	751.452
CL BRG. E. ABUT.	1685+04.773	-12.000	751.563
BK. E. ABUT.	1685+08.773	-12.000	751.599

OUTSIDE GUTTER LINE - E.B.L.

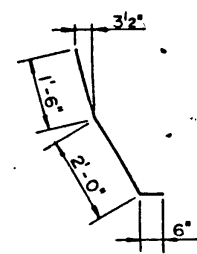
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS
BK. W. ABUT.	1682+81.060	-21.417	749.340
CL BRG. W. ABUT.	1682+85.060	-21.417	749.377
A	1682+95.060	-21.417	749.467
B	1683+05.060	-21.417	749.558
C	1683+15.060	-21.417	749.648
D	1683+25.060	-21.417	749.739
E	1683+35.060	-21.417	749.830
CL PIER 1	1683+47.390	-21.417	749.941
F	1683+57.390	-21.417	750.032
G	1683+67.390	-21.417	750.123
H	1683+77.390	-21.417	750.213
I	1683+87.390	-21.417	750.304
J	1683+97.390	-21.417	750.394
K	1684+07.390	-21.417	750.485
L	1684+17.390	-21.417	750.576
CL PIER 2	1684+25.390	-21.417	750.648
M	1684+35.390	-21.417	750.739
N	1684+45.390	-21.417	750.829
O	1684+55.390	-21.417	750.920
P	1684+65.390	-21.417	751.010
Q	1684+75.390	-21.417	751.101
CL BRG. E. ABUT.	1684+87.720	-21.417	751.213
BK. E. ABUT.	1684+91.720	-21.417	751.249

- ③ Existing longitudinal & transverse reinforcement which is embedded in the remaining concrete shall be cleaned by sandblasting to grey metal and incorporated into new construction. Cost incidental to Concrete Removal. Existing reinforcement having 25% or more of cross sectional area lost due to corrosion or damaged during concrete removal shall be replaced by new reinforcement. Cost of new rebars shall be included in Reinforcing Steel.

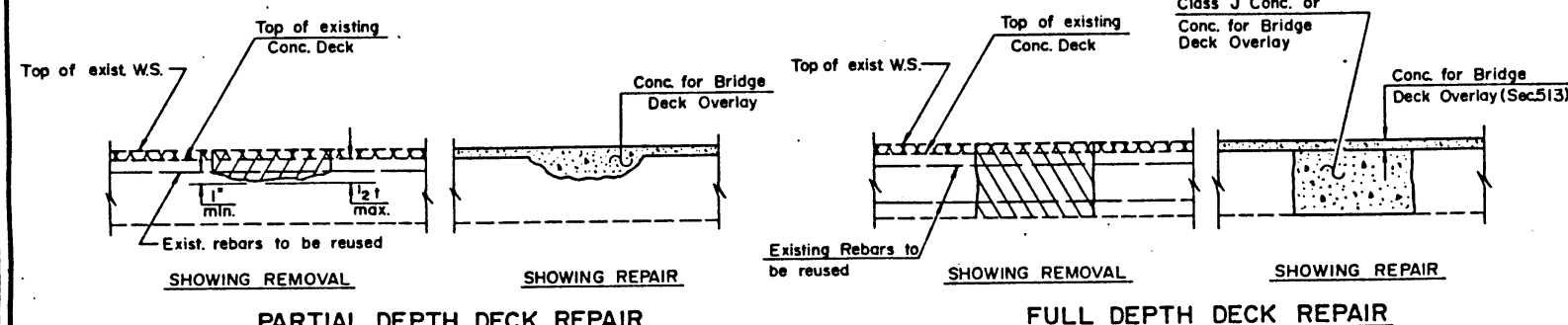
- ⑦ Cut in field or turn to fit skew.



BAR d11(E)



BAR d12(E)

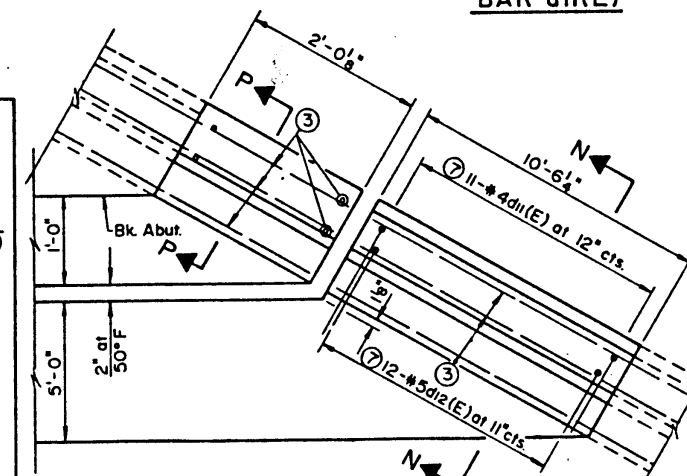


PARTIAL DEPTH DECK REPAIR

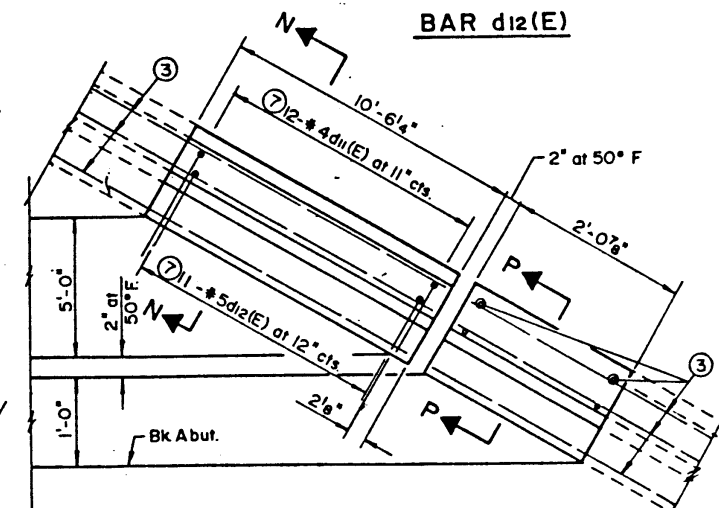
FULL DEPTH DECK REPAIR

- XXXX Bituminous Bridge Deck Overlay Removal (Sec. 508)
 XXXX Class A Bridge Deck Removal (Sec. 510)

- XXXX Bituminous Bridge Deck Overlay Removal (Sec. 508)
 XXXX Class B Bridge Deck Repair (Sec. 511)



DETAIL D



DETAIL B

Work this Sheet with Sheet S-IC-2-14 & S-IC-2-15.

S-IC-2-21

DRAWN: RDL
 CHECKED: RDL

DATE: FEB 1987
 SCALE: NO SCALE

MTA, INCORPORATED
 CONSULTING ENGINEERS
 CHICAGO - SPRINGFIELD - INDIANAPOLIS

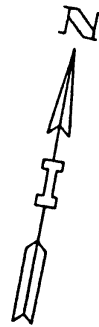
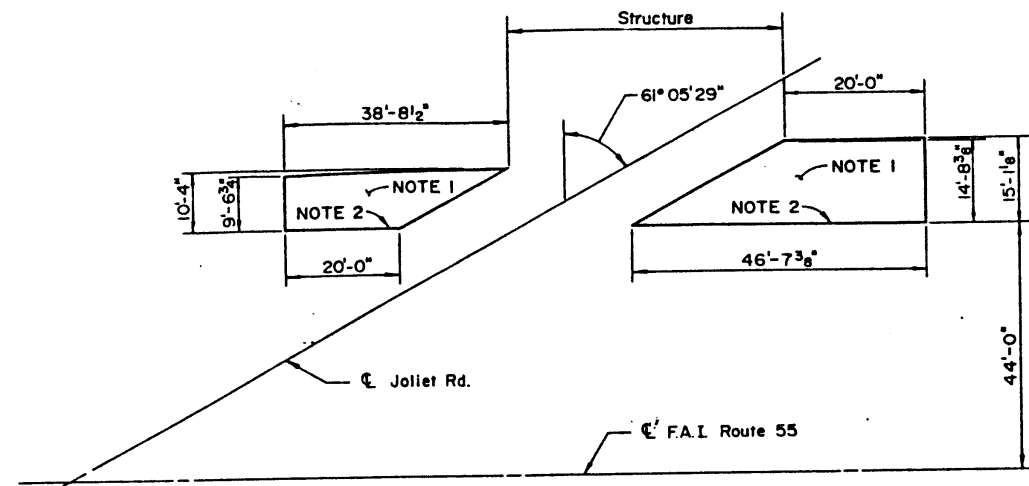


THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
 EAST-WEST TOLLWAY AND MIDWEST ROAD
 OAK BROOK, ILLINOIS 60521

NO.	DATE	REVISIONS
		DESCRIPTION

CONTRACT CIP-611
 F.A.I. ROUTE 55 OVER JOLIET ROAD
 BRIDGE NO.
 DECK ELEVATIONS

DRAWING NO.
 456 OF 527



WEST APPROACH

EAST APPROACH

PAVING PLAN

NOTES

1. Special Bridge Approach Pavements, See I.D.O.T. Std. 2382-2 for details, see bar list this sheet.
2. Longitudinal joint to be poured adjacent to existing approach slab and pavement.

BILL OF MATERIALS
WEST APPROACH SLAB

No	Size	Length	
* 10	# 5	20'-9"	Trans.
28	# 7	19'-0"	Long.
* 3	# 4	20'-9"	Trans.
11	# 4	19'-6"	Long.
Bridge Approach Slab			
		Sq. Yds.	10.8
Reinforcing Steel		Lbs.	1,490

* Reinforcing Steel shall be cut to fit, balance of bar to be wasted.

BILL OF MATERIALS
EAST APPROACH SLAB

No	Size	Length	
* 10x2	# 5	16'-4"	Trans.
42	# 7	19'-0"	Long.
* 3x2	# 4	16'-4"	Trans.
12	# 4	19'-6"	Long.
Bridge Approach Slab			
		Sq. Yds.	18.4
Reinforcing Steel		Lbs.	2,200

Drawn or Corrected by	1st	2nd	3rd
Designed or Checked by	NLB	NLB	NLB
Drawn or Corrected by	DDR	DDR	DDR

DRAWN.....D.D.R.

DATE.....FEB. 1987

CHECKED.....N.L.B.

SCALE.....NO SCALE

MTA, INCORPORATED
CONSULTING ENGINEERS
CHICAGO - SPRINGFIELD - INDIANAPOLIS



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
EAST-WEST TOLLWAY AND MIDWEST ROAD
OAK BROOK, ILLINOIS 60521

REVISIONS		
NO.	DATE	DESCRIPTION

CONTRACT CIP-611
F.A.I. ROUTE 55 OVER JOLIET ROAD
BRIDGE NO.
APPROACH SLAB DETAILS

S-IC-2-22

DRAWING NO.

457 527
.....OF.....