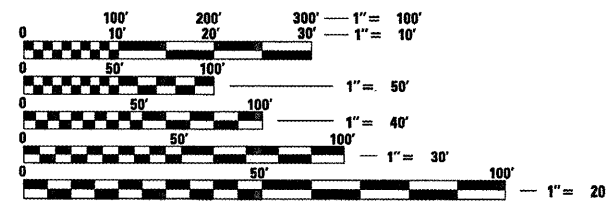


**INDEX OF SHEETS**

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
5. ROAD CLOSURE DETAILS
6. PAVEMENT MARKING
7. BRIDGE APPROACH DETAILS
8. GENERAL PLAN AND ELEVATION
9. PLAN AND CROSS SECTION
10. DECK SLAB REPAIR DETAILS
11. FRAMING PLAN
12. EXISTING ABUTMENT DETAILS
13. EXISTING SLAB DETAILS AT ABUTMENTS
14. EXISTING SLAB DETAILS AT PIER 1
15. EXISTING SLAB DETAILS AT PIER 2
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17. PROPOSED PLAN AND CROSS SECTION
18. PROPOSED ABUTMENT DETAILS
19. PROPOSED SLAB DETAILS AT ABUTMENTS
20. PROPOSED SLAB DETAILS AT PIER 1
21. PROPOSED SLAB DETAILS AT PIER 2
22. PROPOSED SLAB DETAILS AT PIER 3
23. HANDRAIL DETAILS
24. DECK DRAIN EXTENSION DETAILS
25. PREFORMED JOINT STRIP SEAL

**STANDARDS**

- |           |  |
|-----------|--|
| BLR 17-4  | TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION                           |
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                               |
| 001001-02 | AREAS OF REINFORCEMENT BARS  |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT   |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY                     |
| 701006-03 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701301-03 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                |
| 701901-01 | TRAFFIC CONTROL DEVICES  |



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

**PROJECT ENGINEER: JOE KANNEL**  
**UNIT CHIEF: RON WOODSHANK**  
**TOWNSHIP: DAYTON**  
**CONTRACT NO. 66935**

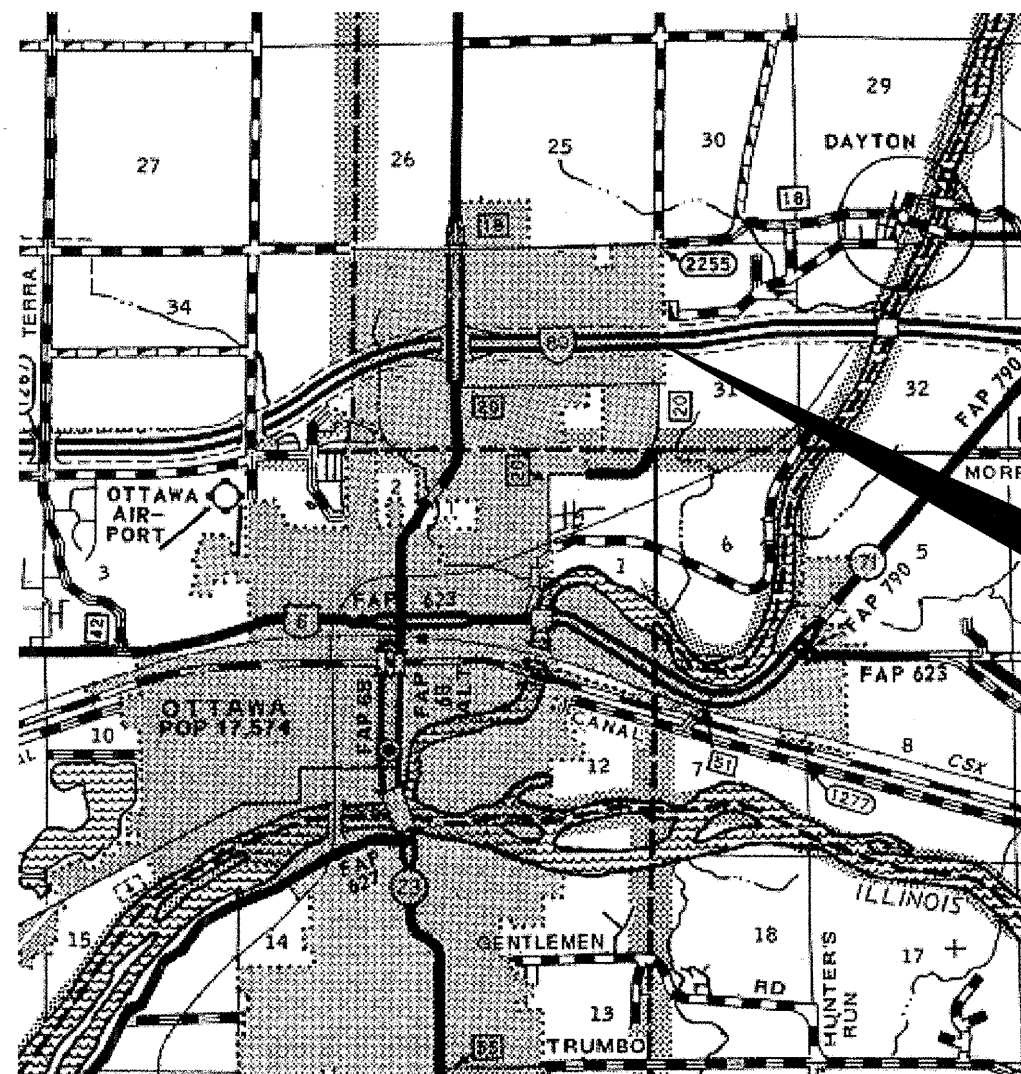
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DIVISION OF HIGHWAYS**

**PROPOSED**  
**HIGHWAY PLANS**

**FAI ROUTE 80 (I-80)**  
**SECTION (50-4)I**

**BRIDGE REPAIR**  
**LASALLE COUNTY**  
**C-93-071-09**



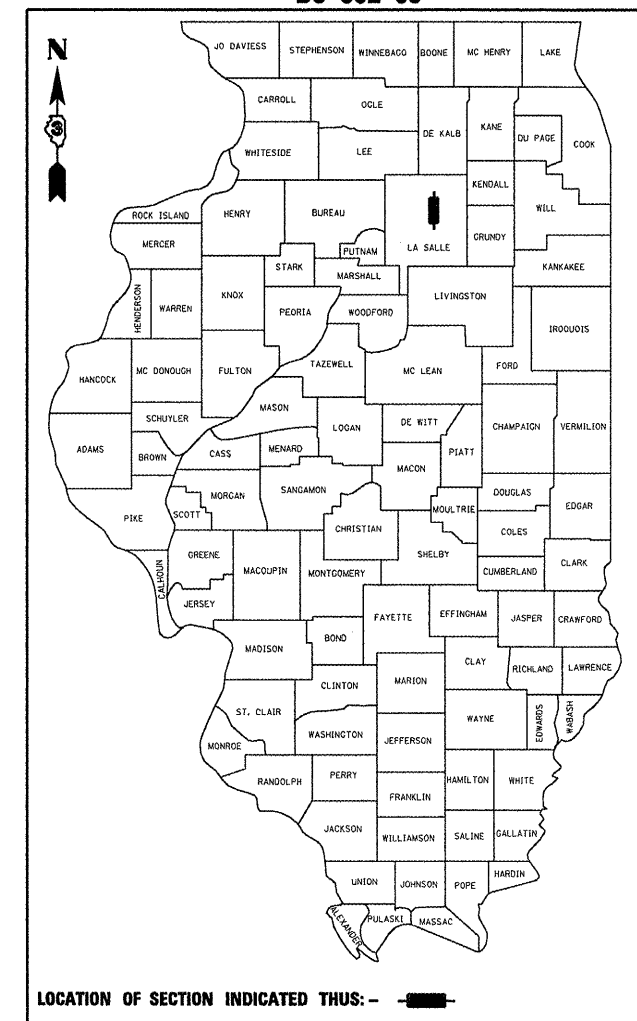
POINT LOCATION

**PROJECT LOCATION**

SN 050-0089  
E. 18th ROAD (DAYTON ROAD)  
OVER FAI ROUTE 80  
1.0 MILE EAST OF IL ROUTE 23

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	1
		ILLINOIS	CONTRACT NO. 66935	

**D3-002-09**



FUNCTIONAL CLASSIFICATION  
URBAN - INTERSTATE  
F.A.I. ROUTE 80 (I-80)  
2007 ADT = 29900  
P.V = 58.2% M.U. = 36.1% S.U. = 5.7%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 4/8 2009  
George Rajan  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 2009  
Charles G. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2009  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY**  
**OF THE STATE OF ILLINOIS**

# GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING ROADWAY OR 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 TO 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 BID FOR THE WORK.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE COST OF ANY SAW CUTS MADE TO COMPLETE THE WORK AS DESCRIBED IN PLAN DETAILS, UNLESS OTHERWISE NOTED SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE VARIOUS PAY REMOVAL PAY ITEMS INVOLVED.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

DATE: 4.7.09  
 PREPARED BY: Rail Powell  
 DISTRICT STUDIES & PLANS ENGINEER  
 EXAMINED BY: Herbert K. Jung  
 DISTRICT CONSTRUCTION ENGINEER  
Wayne R. ...  
 DISTRICT MATERIALS ENGINEER  
Eric A. ...  
 DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -
at\pwwork\pwwid\WOODSHANKRL\dms91658	D366935-details.dgn	DRAWN - RON WOODSHANK	REVISED -
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Apr 07, 2009 - 07:51:15 AM	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

## GENERAL NOTES

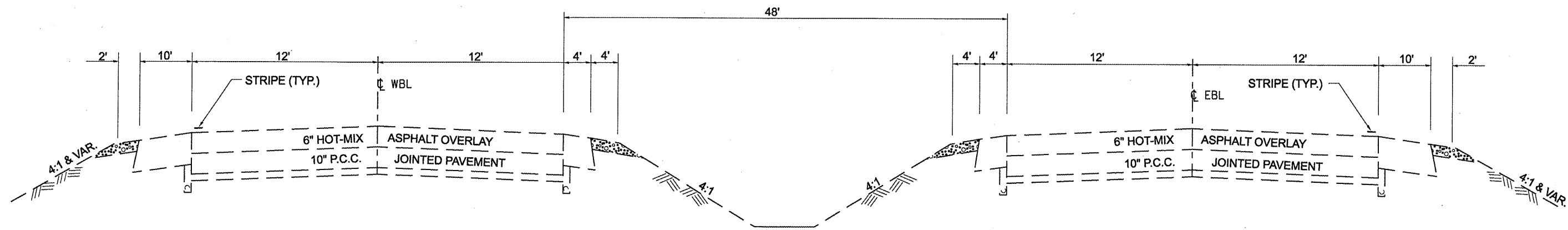
SCALE: _____	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	F.A.I. RTE. 80	SECTION (50-41)	COUNTY LASALLE	TOTAL SHEETS 25	SHEET NO. 2
							CONTRACT NO. 66935
ILLINOIS							

## SUMMARY OF QUANTITIES

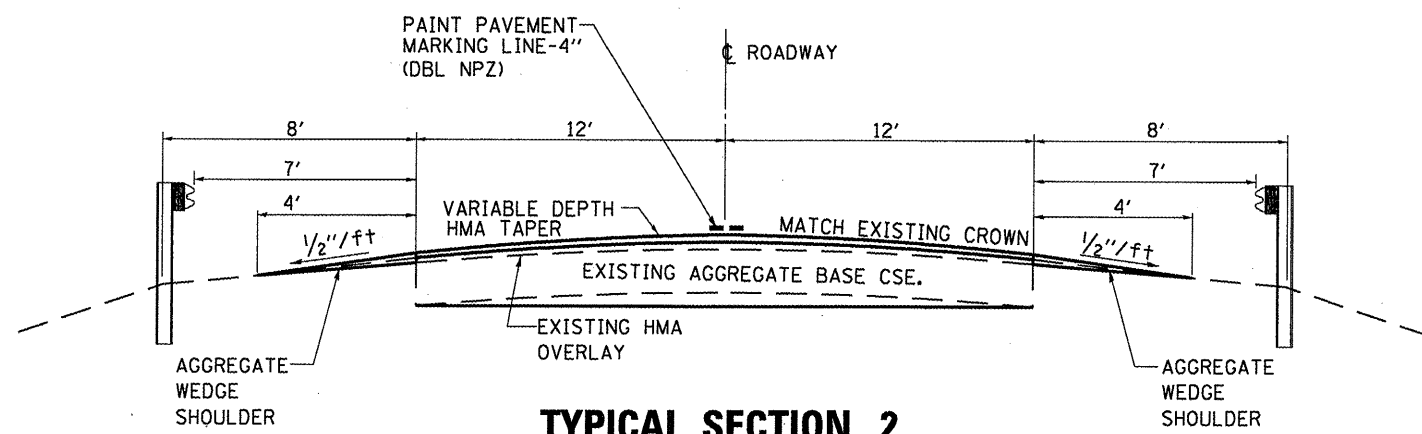
CONSTRUCTION CODE TYPE: SFTY-2A

CODE NO.	ITEM	UNIT	URBAN 100% STATE TOTAL QUANTITY
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	30
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	3
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	374
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4
50102400	CONCRETE REMOVAL	CU YD	23
5057300	<del>PROTECTIVE SHIELD</del>	<del>SQ YD</del>	<del>250</del>
50300255	CONCRETE SUPERSTRUCTURE	CU YD	25
50300260	BRIDGE DECK GROOVING	SQ YD	559
50300300	PROTECTIVE COAT	SQ YD	626
50606400	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1
50607900	CLEANING <sup>AND</sup> PAINTING <sup>METAL</sup> HANDRAIL	FOOT	466
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2210
52000110	PREFORMED JOINT STRIP SEAL	FOOT	134
67100100	MOBILIZATION	L SUM	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1
X 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	700
X0322185	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	568
X0323078	REMOVE AND RE-ERECT EXISTING BRIDGE RAIL	FOOT	<del>228</del>
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	13
X5067500	<del>BRIDGE CLEANING AND PAINTING WARRANTY</del>	L SUM	1
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1
Z0006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	568
50300530	FLOOR DRAIN EXTENSION	EACH	16
Z0016000	DECK SLAB REPAIR (FULL DEPTH)	SQ YD	30

X SPECIALTY  
ITEM

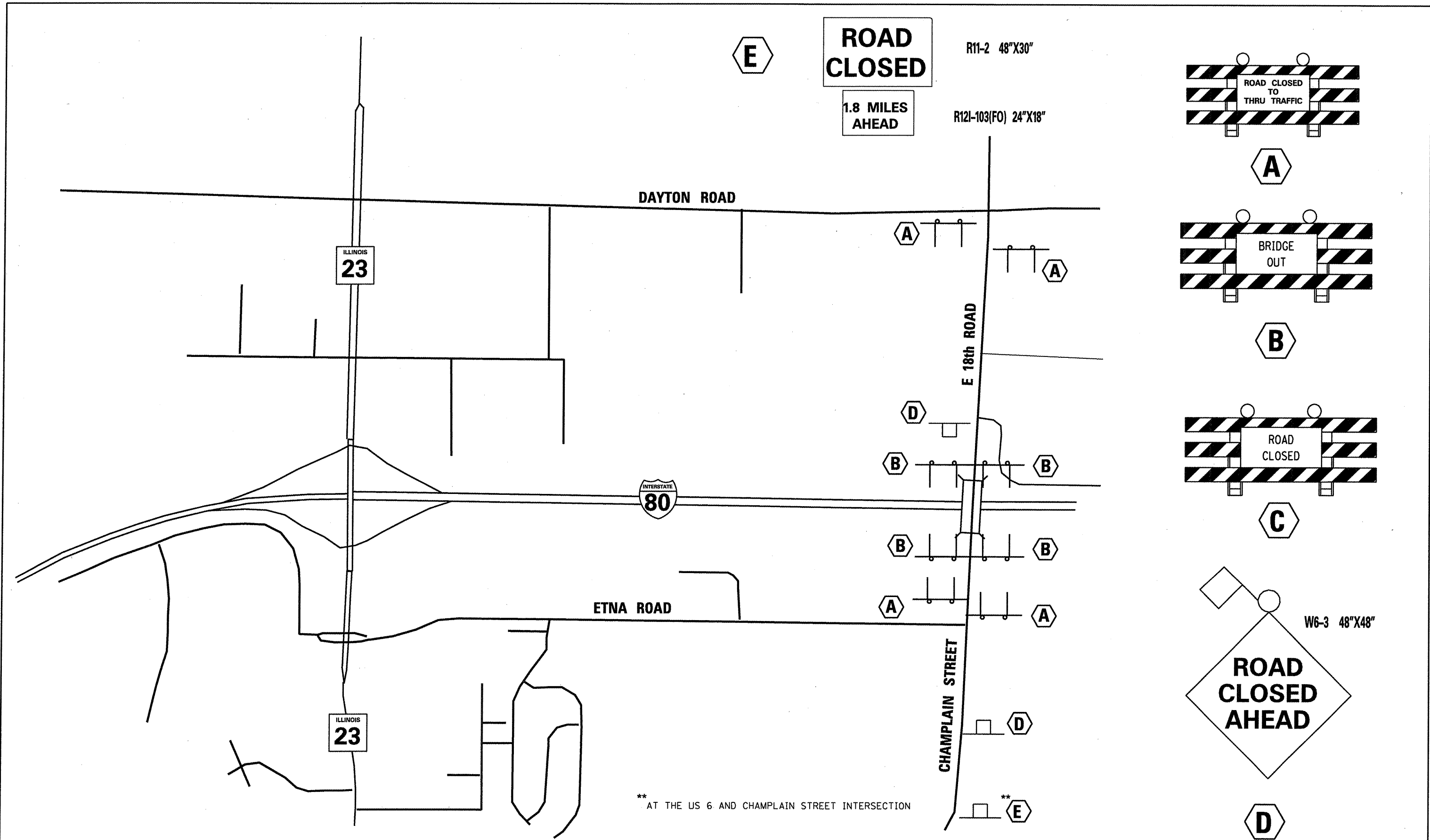


**TYPICAL SECTION 1**  
**FAI 80**



**TYPICAL SECTION 2**  
**E. 18th ROAD (DAYTON ROAD)**  
LOOKING NORTH

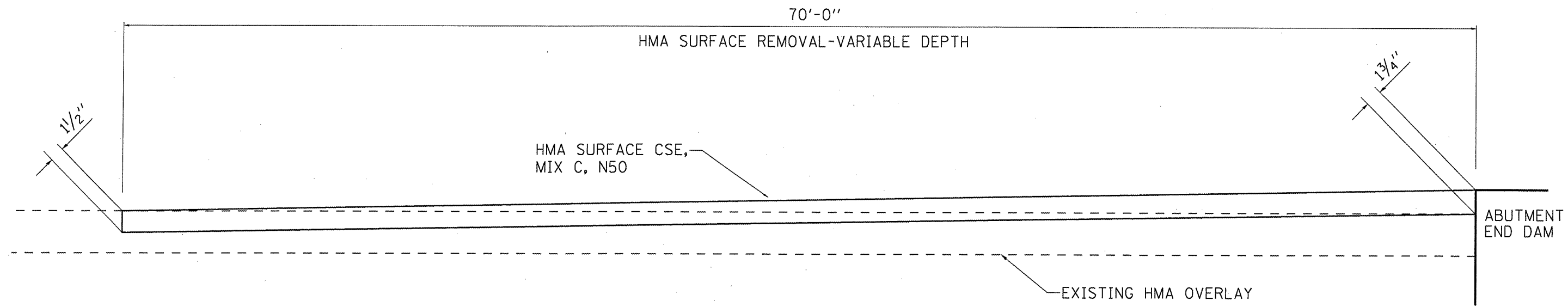
	HMA SURFACE
PG GRADE	PG64-22
MAX 1/2 RAP ALLOWABLE	15%**
DESIGN AIR VOIDS	4.0% @ N50
MIXTURE COMPOSITION	IL 12.5 or IL 9.5
FRICITION AGGREGATE	MIXTURE C
DENSITY CONTROL METHOD	NUCLEAR



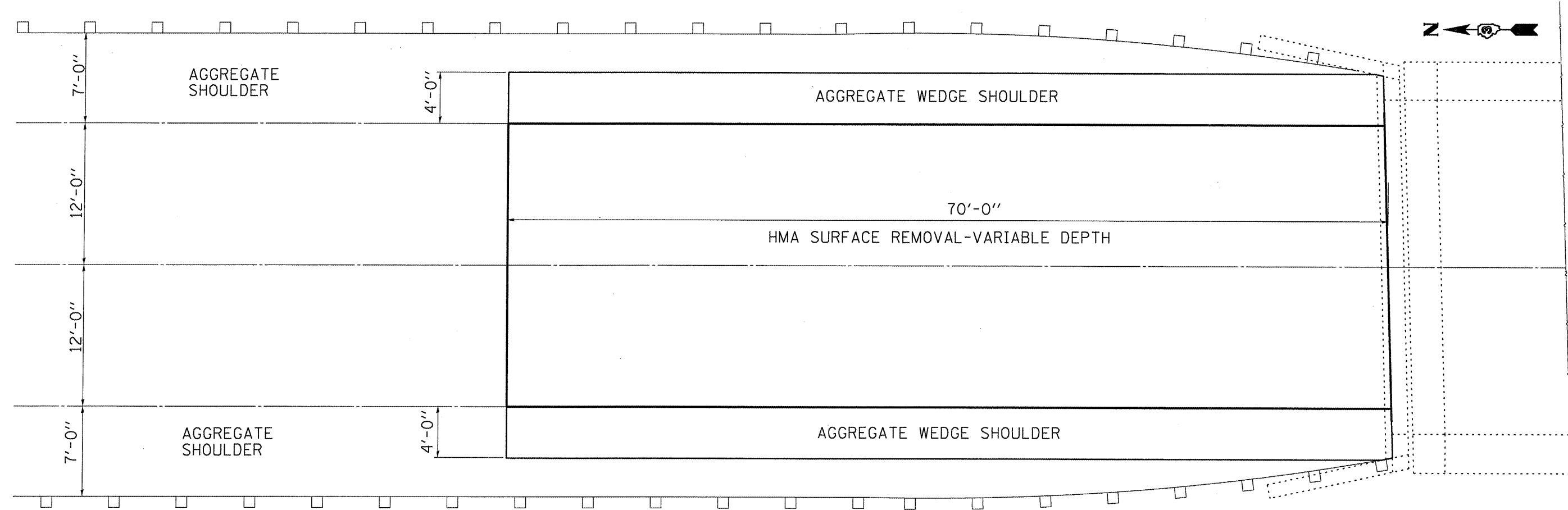
\*\* AT THE US 6 AND CHAMPLAIN STREET INTERSECTION

SEE TRAFFIC CONTROL AND PROTECTION STANDARD BLR. 17-4 FOR PLACEMENT OF BARRICADES

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROAD CLOSURE DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\PWIDOT\WOODSHANKRL\dms91858	0366935-details.dgn	DRAWN - RON WOODSHANK	REVISED -			80	(50-41)	LASALLE	25	5	
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 66935					
	PLOT DATE = Apr 07, 2009 - 07:51:33 AM	DATE -	REVISED -			[ILLINOIS]					



**ELEVATION**



**PLAN**

NORTH ABUTMENT SHOWN  
SOUTH ABUTMENT SIMILAR

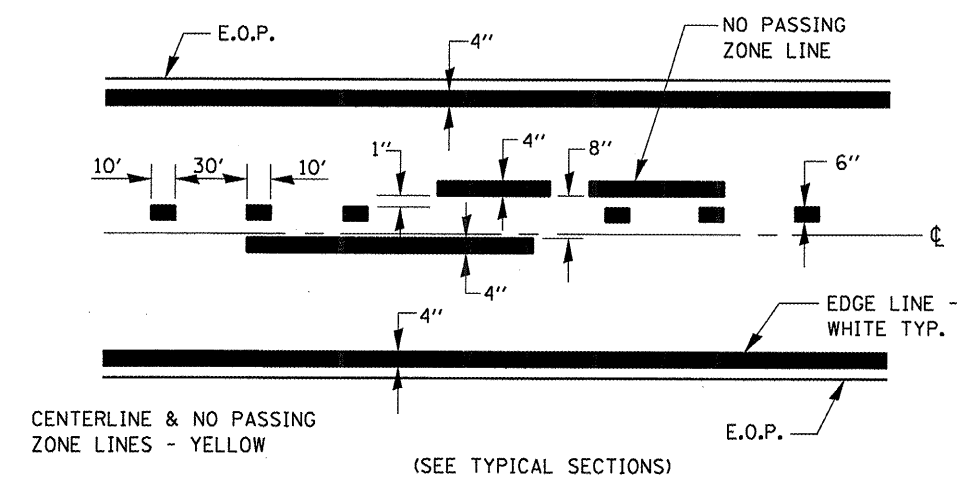
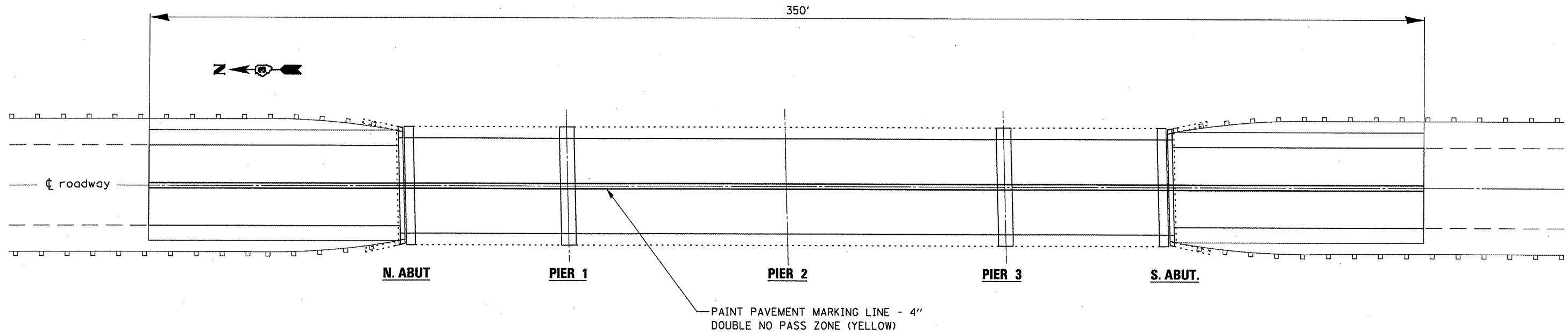
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	PLOT DATE = Apr 07, 2009 - 07:51:38 AM	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH DETAILS**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	6
ILLINOIS			CONTRACT NO. 66935	



**TYPICAL PAVEMENT MARKING**

S.N. 050-0089

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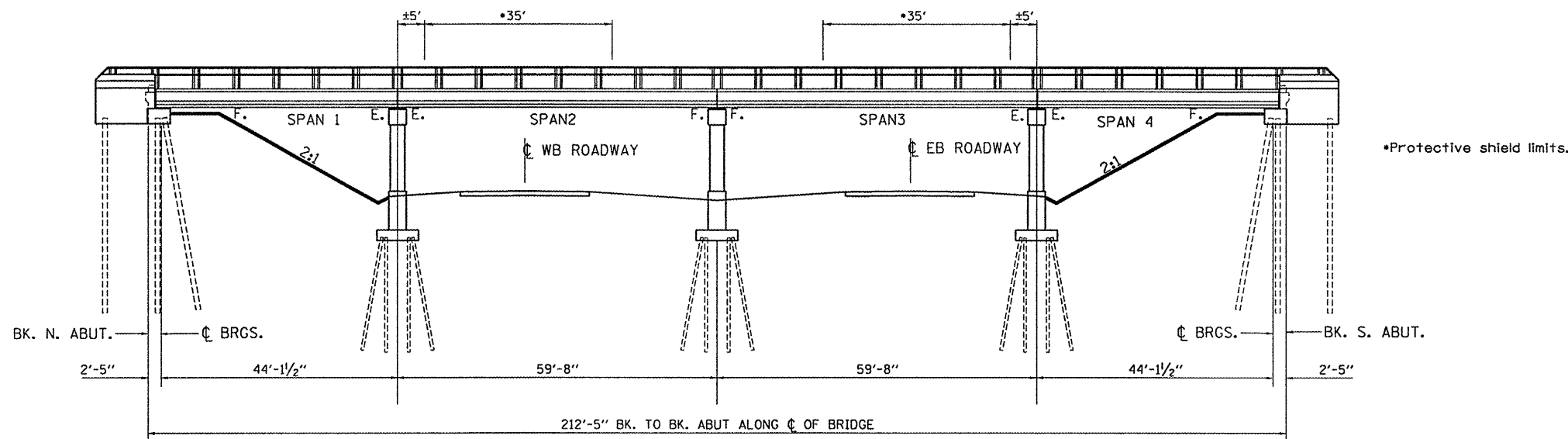
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	7
CONTRACT NO. 66935			ILLINOIS	

S.N. 050-0089



**ELEVATION**

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 FURNISHED BASED UPON THE UNIT BID PRICE FOR THE WORK.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

ALL STRUCTURAL STEEL SHALL BE AASHTO M 270 GRADE 36

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 503.10(c) OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE CONTRACTOR WILL BE REQUIRED TO MARK ON THE TOP OF THE CONCRETE DECK THE LOCATIONS OF THE TOP FLANGE OF ALL CONCRETE BEAMS PRIOR TO ANY REMOVAL OF THE BRIDGE CONCRETE DECK. SAW CUTTING DIRECTLY OVER THE TOP OF BEAM FLANGES IS NOT PERMITTED.

CLEANING AND PAINTING METAL HANDRAIL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STRUCTURES". THE METAL HANDRAIL SHALL BE CLEANED PER POWER TOOL CLEANING - MODIFIED SSPC-SP3. ALL SURFACES DESIGNATED TO BE CLEANED AND PAINTED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 2-PS/EM/U. THE COLOR OF THE FINAL FINISH COAT SHALL BE GREEN, MUNSELL NO. 7.5G 4/8.

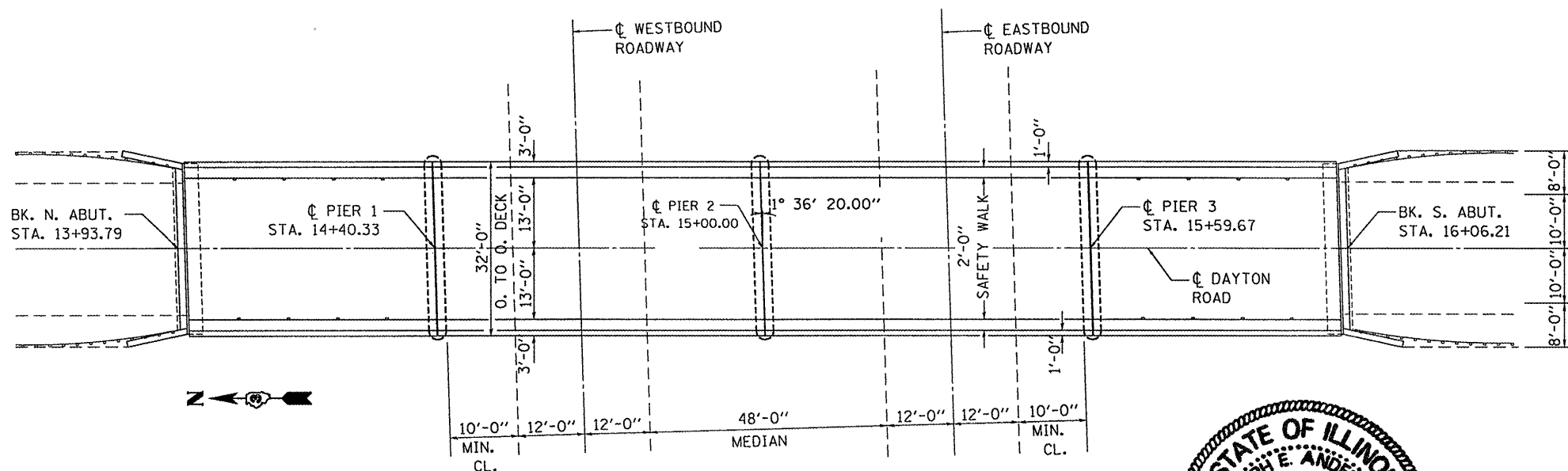
THE SSPC-OP1 AND SSPC-OP2 PAINTING CONTRACTOR CERTIFICATIONS WILL NOT BE REQUIRED FOR THIS BRIDGE.

THE EXISTING STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

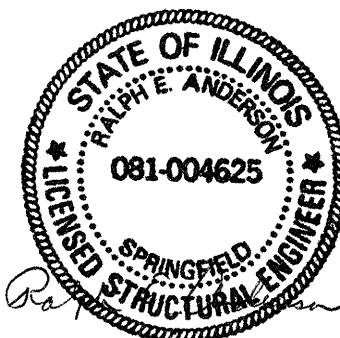
THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE THE PPC I-BEAM.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	TOTAL
CONCRETE REMOVAL	CU YD	23	23
CONCRETE SUPERSTRUCTURE	CU YD	25	25
BRIDGE DECK GROOVING	SQ YD	559	559
PROTECTIVE COAT	SQ YD	626	626
CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	1
CLEAN AND PAINT METAL HANDRAIL	FOOT	466	466
REINFORCEMENT BARS, EPOXY COATED	POUND	2210	2210
PREFORMED JOINT STRIP SEAL	FOOT	134	134
BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/4"	SQ YD	568	568
REMOVE AND RE-ERECT EXISTING BRIDGE RAIL	FOOT	228	228
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	13	13
BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	568	568
FLOOR DRAIN EXTENSIONS	EACH	16	16
DECK SLAB REPAIR (FULL DEPTH)	SQ YD	30	30
PROTECTIVE SHIELD	SQ YD	250	250



**PLAN**



Expires 11-30-2010

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#FILE#		DRAWN - RON WOODSHANK	REVISED -
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	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

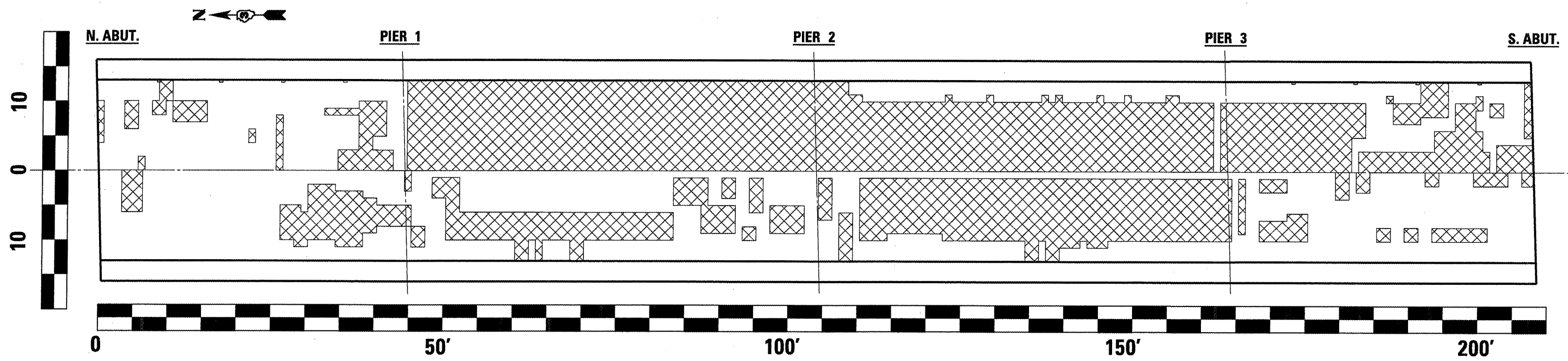
**GENERAL PLAN AND ELEVATION**

SCALE: SHEET NO. 1 OF 18 SHEETS STA. TO STA.

F.A.I. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	8
			CONTRACT NO. 66935	
ILLINOIS				







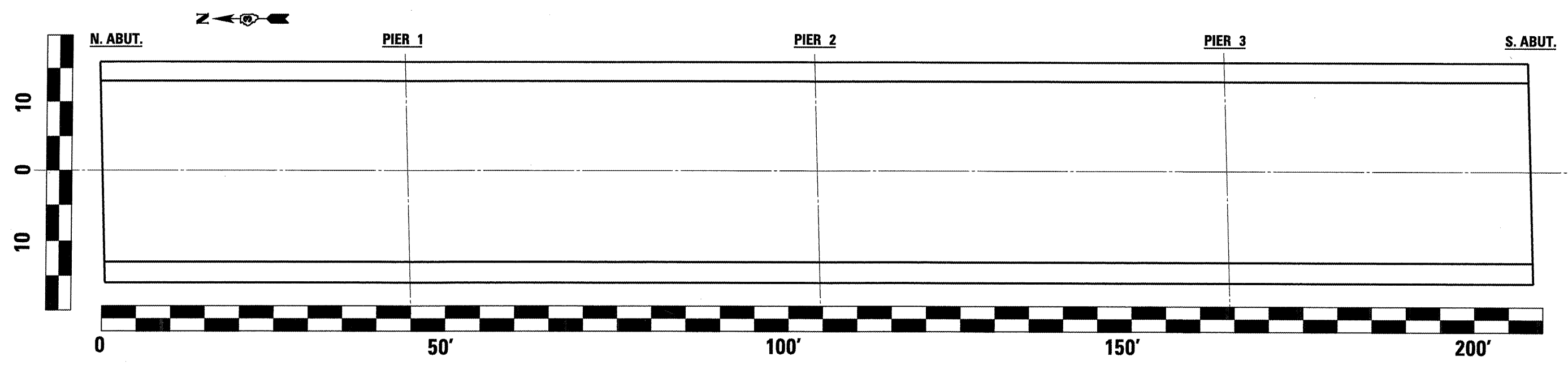
**NOTES**

CROSS HATCHED AREA REPRESENTS ESTIMATED DECK SLAB REPAIR (PARTIAL DEPTH).

AFTER BRIDGE DECK HYDRO-SCARIFICATION OPERATIONS HAVE BEEN COMPLETED, THE ENGINEER SHALL SOUND THE ENTIRE DECK AREA FOR ACTUAL DECK SLAB REPAIR AREAS. THE ENGINEER SHALL SHOW ACTUAL AREAS OF DECK SLAB REPAIR ON "AS BUILT PLANS".

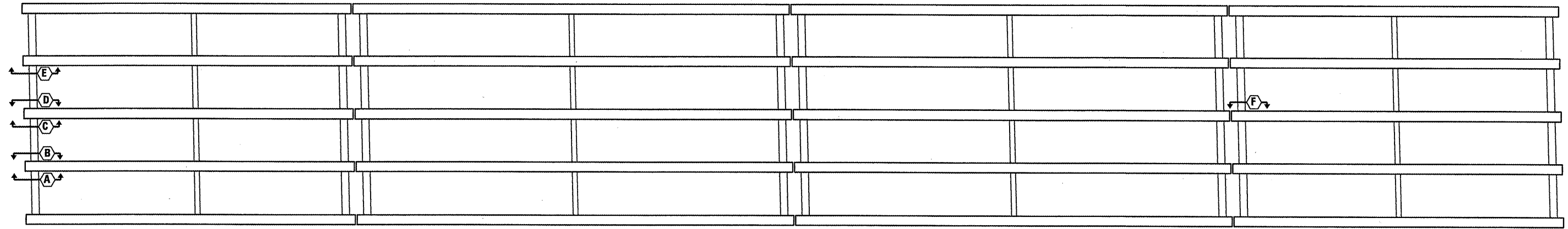
ESTIMATED DECK SLAB REPAIR (FULL DEPTH) QUANTITY HAS BEEN INCLUDED IF THE ENGINEER DETERMINES THAT DECK SLAB REPAIR IS REQUIRED BEYOND THE LIMITS OF (PARTIAL DEPTH) REPAIRS.

**EXISTING PLAN**



**"AS BUILT PLAN"**

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK SLAB REPAIR DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw\work\PMIDOT\WOODSHANKR1\dms91658	D366935-detaila.dgn	DRAWN - RON WOODSHANK	REVISED -			80	(50-4)	LASALLE	25	10	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 66935					
PLOT DATE = Apr 07, 2009 - 07:52:03 AM	DATE -	REVISED -	REVISED -			ILLINOIS					
					SCALE: _____	SHEET NO. 3 OF 18 SHEETS		STA. _____ TO STA. _____			



N. ABUT.

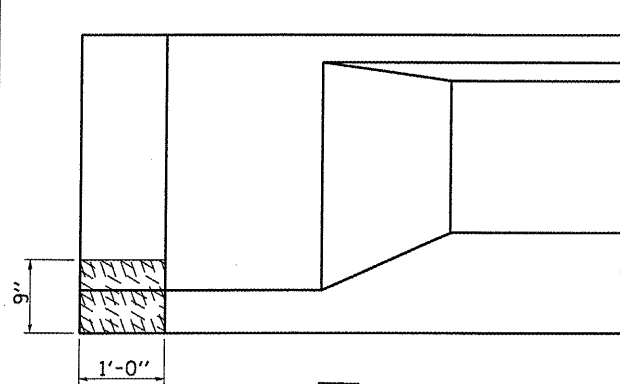
PIER 1

PIER 2

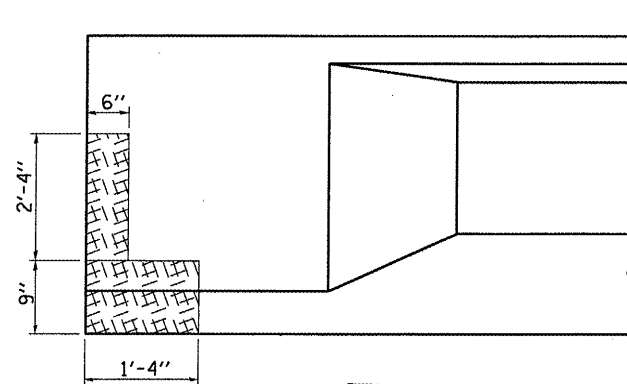
PIER 3

S. ABUT.

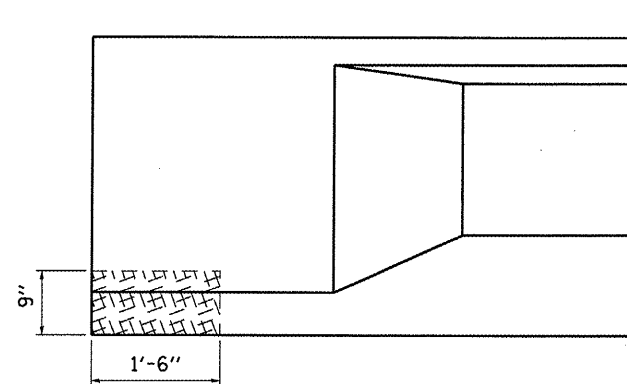
### FRAMING PLAN



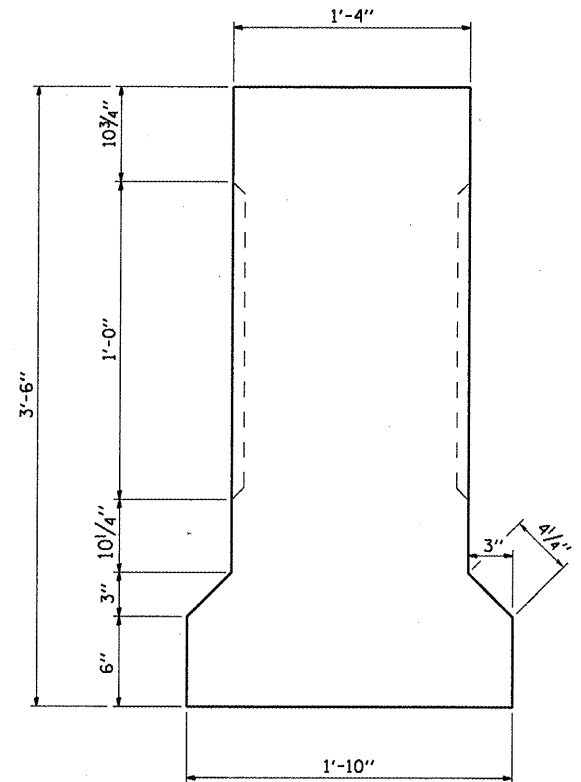
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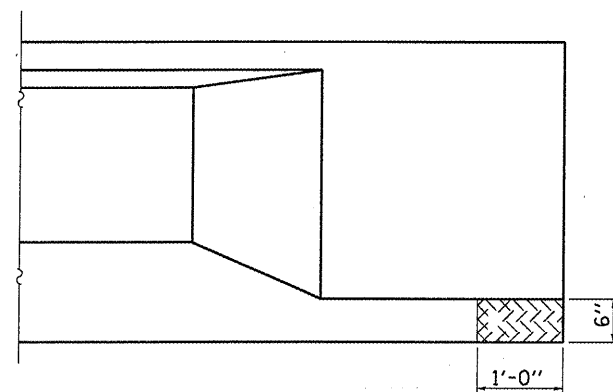
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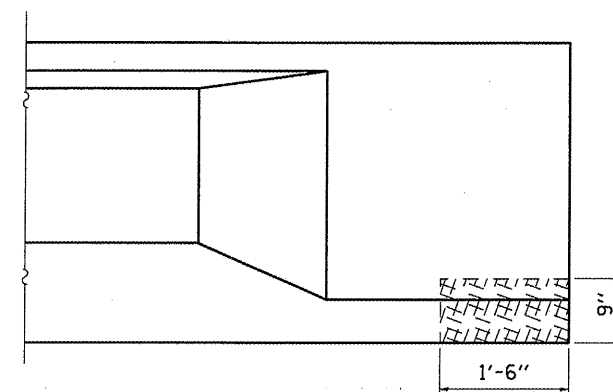
E



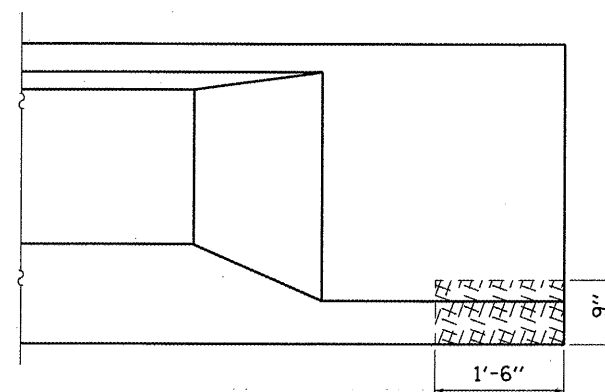
### BEAM END SECTION



B



D



F



STRUCTURAL REPAIR  
OF CONCRETE (DEPTH  
EQUAL TO OR LESS THEN 5'')

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -
os:\pw\work\PIWIDOT\WOODSHANKRL\dms91858	D366935-details.dgn	DRAWN - RON WOODSHANK	REVISED -
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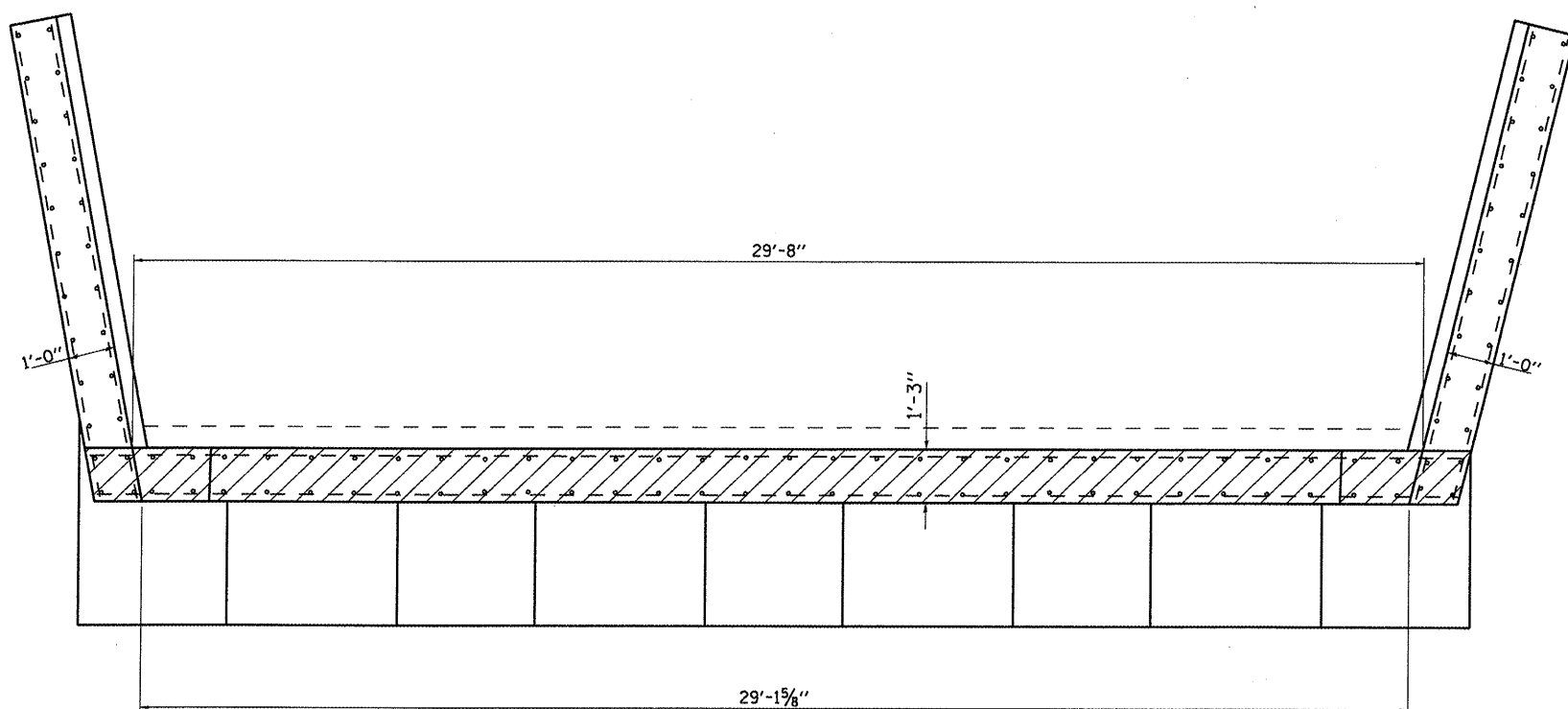
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

### FRAMING PLAN

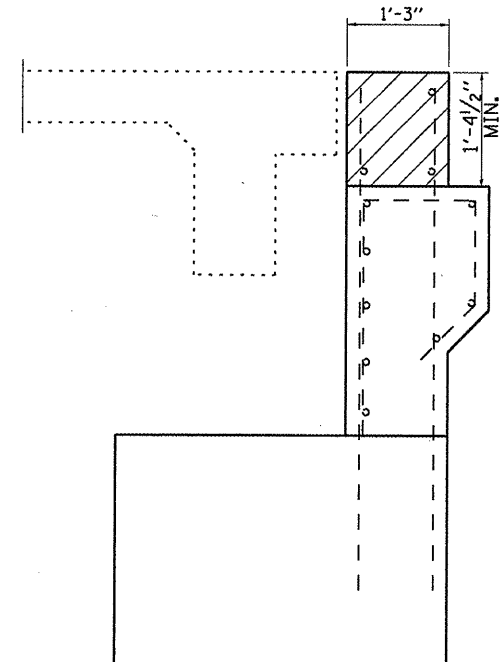
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66935	

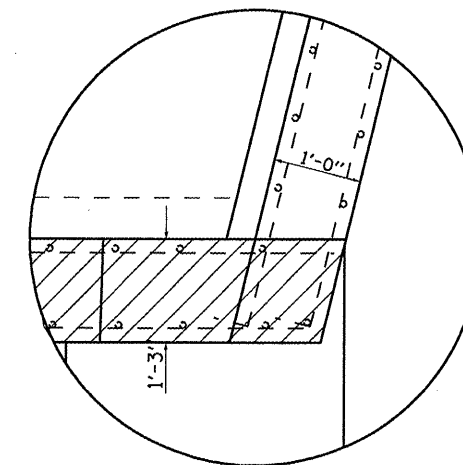
ILLINOIS



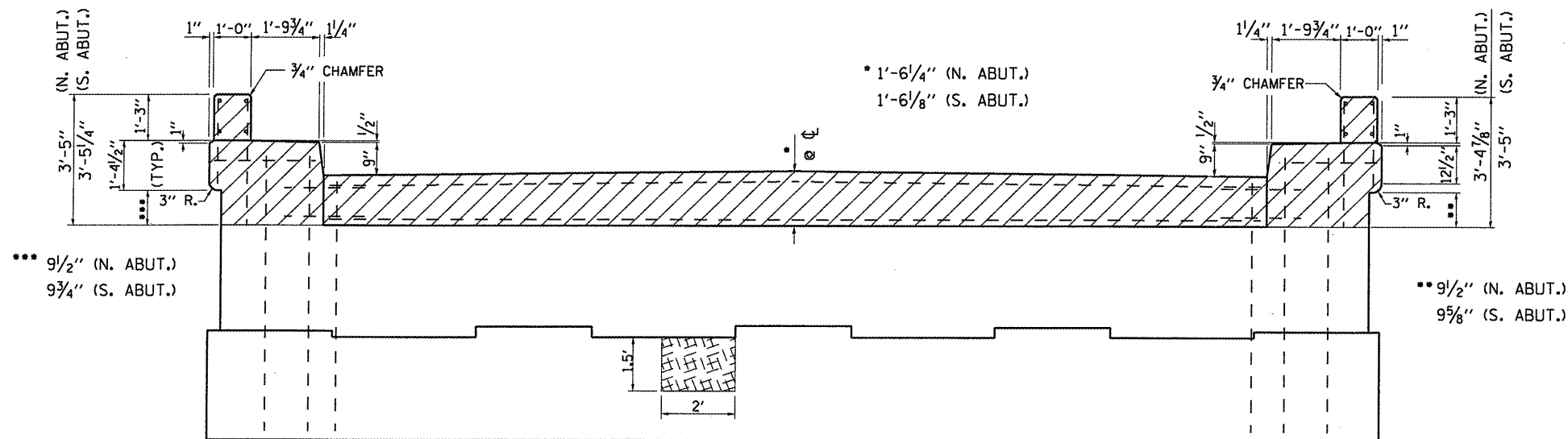
**PLAN**  
**NORTH ABUTMENT SHOWN**  
**SOUTH ABUTMENT SIMILAR**  
**THRU 180° ROTATION**



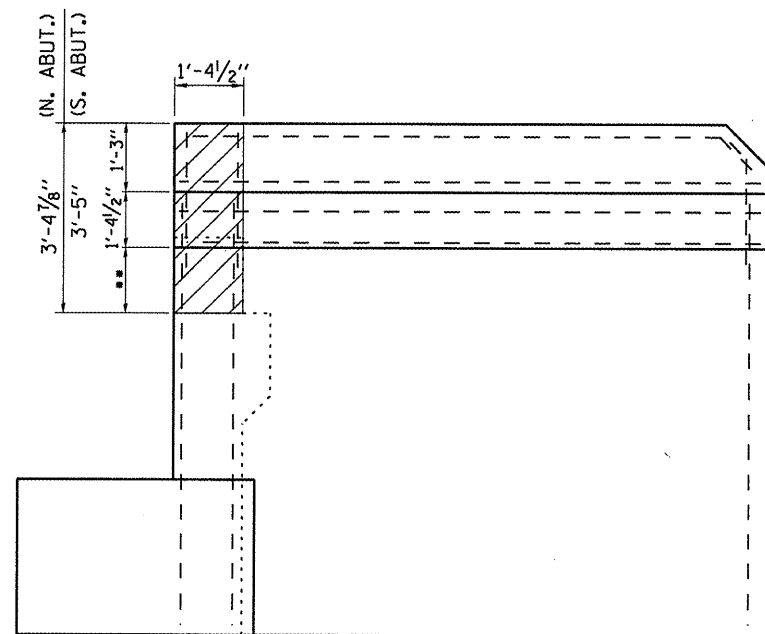
**ABUT. SECTION**




**CORNER DETAIL**




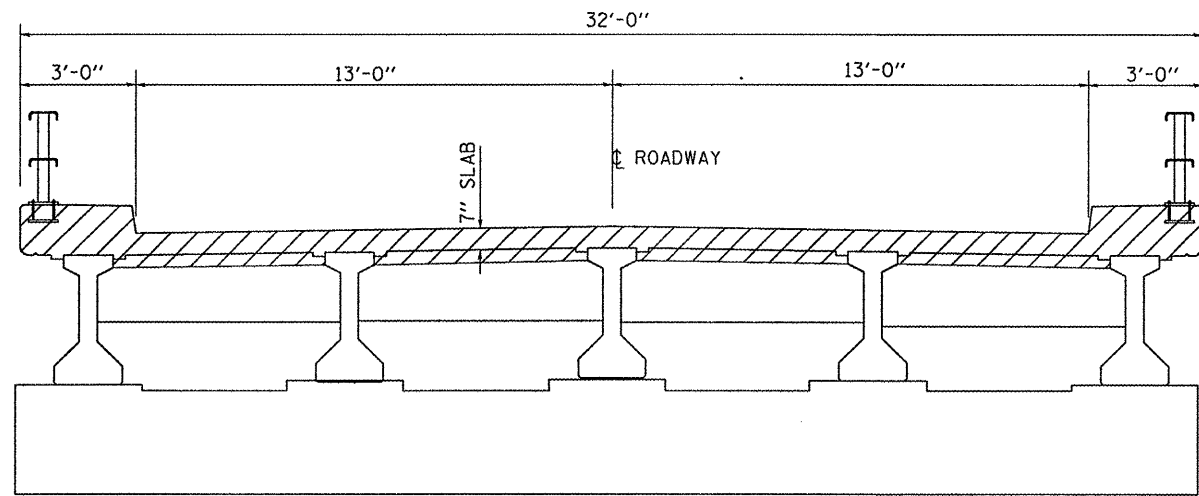
**ELEVATION**



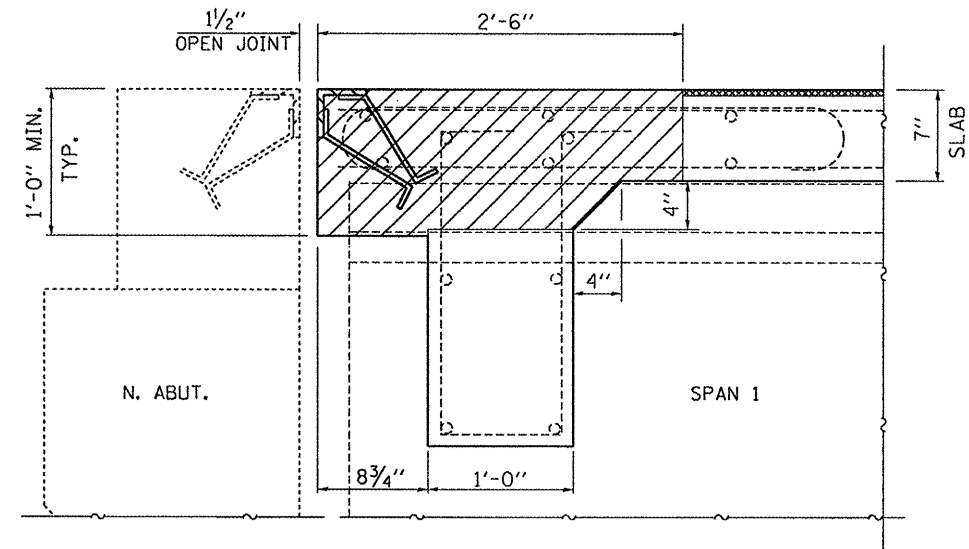
**WING WALL ELEVATION**  
**OUTSIDE FACE**

 CONCRETE REMOVAL

 STRUCTURAL REPAIR OF CONCRETE (NORTH ABUT. ONLY)



**SOUTH ELEVATION**  
NORTH ABUTMENT



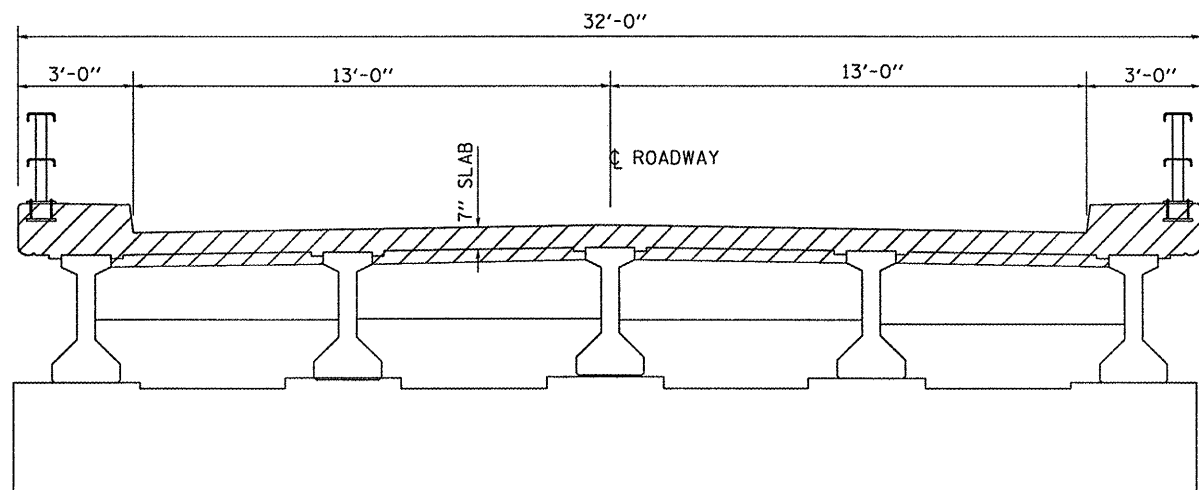
**SECTION A-A**  
SEE SHEET 2 OF 18



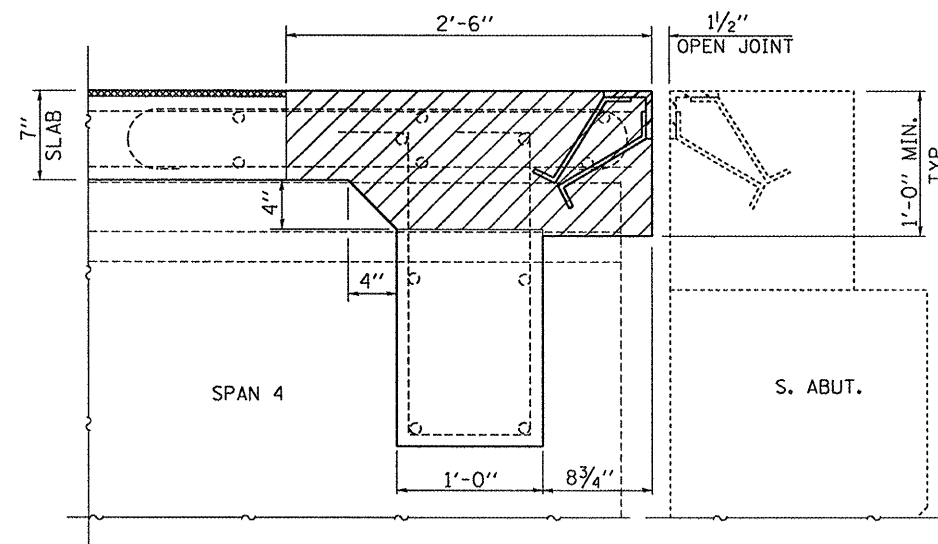
BRIDGE DECK HYDRO-SCARIFICATION (1/2")



CONCRETE REMOVAL



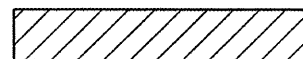
**NORTH ELEVATION**  
SOUTH ABUTMENT



**SECTION B-B**  
SEE PAGE 7



BRIDGE DECK HYDRO-SCARIFICATION (1/2")



CONCRETE REMOVAL

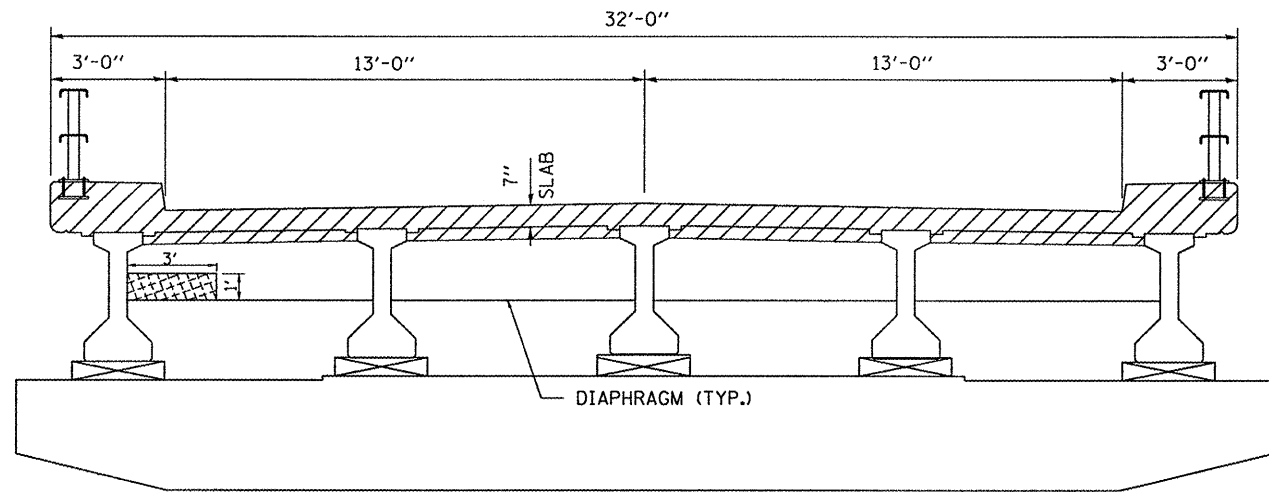
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	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

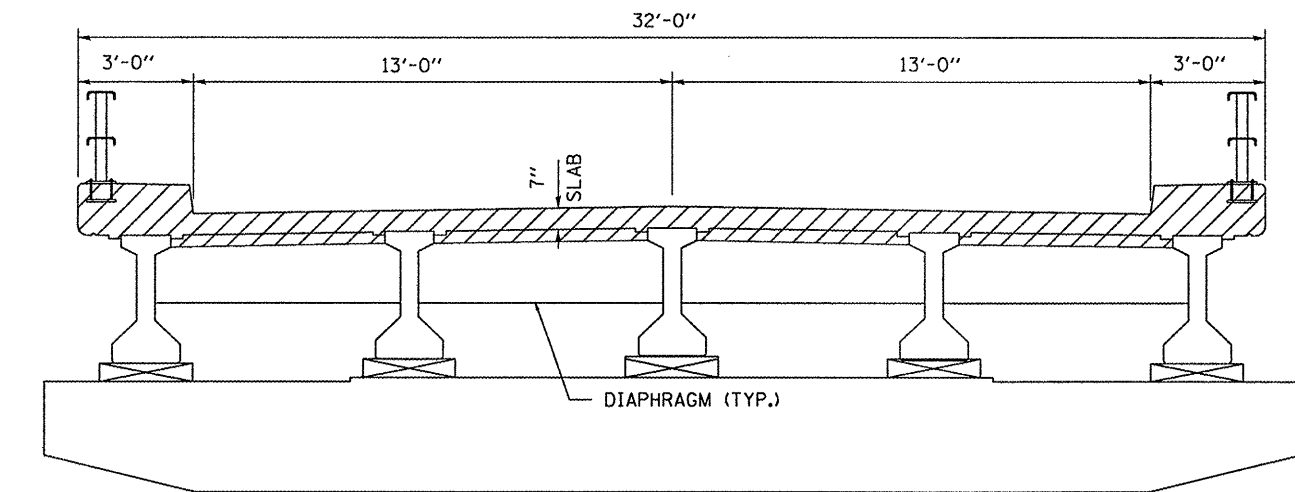
**EXISTING SLAB DETAILS AT ABUTMENTS**

SCALE: SHEET NO. 6 OF 18 SHEETS STA. TO STA.

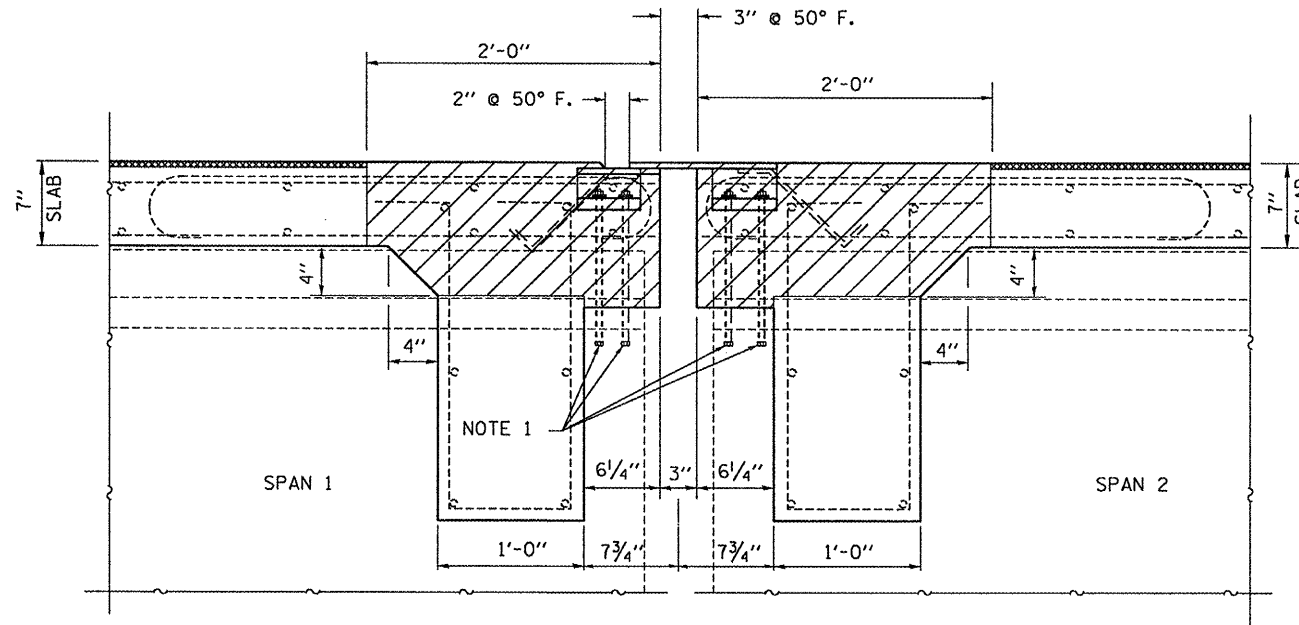
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	13
ILLINOIS			CONTRACT NO. 66935	



**NORTH ELEVATION**  
PIER 1 - SPAN 1



**SOUTH ELEVATION**  
PIER 1 - SPAN 2



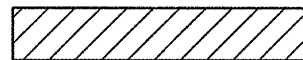
**SECTION C-C**

SEE SHEET 2 OF 18

NOTE: 1 EXISTING ANCHOR BOLTS EXTENDING FROM PPC BEAMS SHALL BE CUT FLUSH WITH TOP OF BEAM AND GROUND FLAT.



BRIDGE DECK HYDRO-SCARIFICATION (1/2")



CONCRETE REMOVAL



STRUCTURAL REPAIR OF CONCRETE

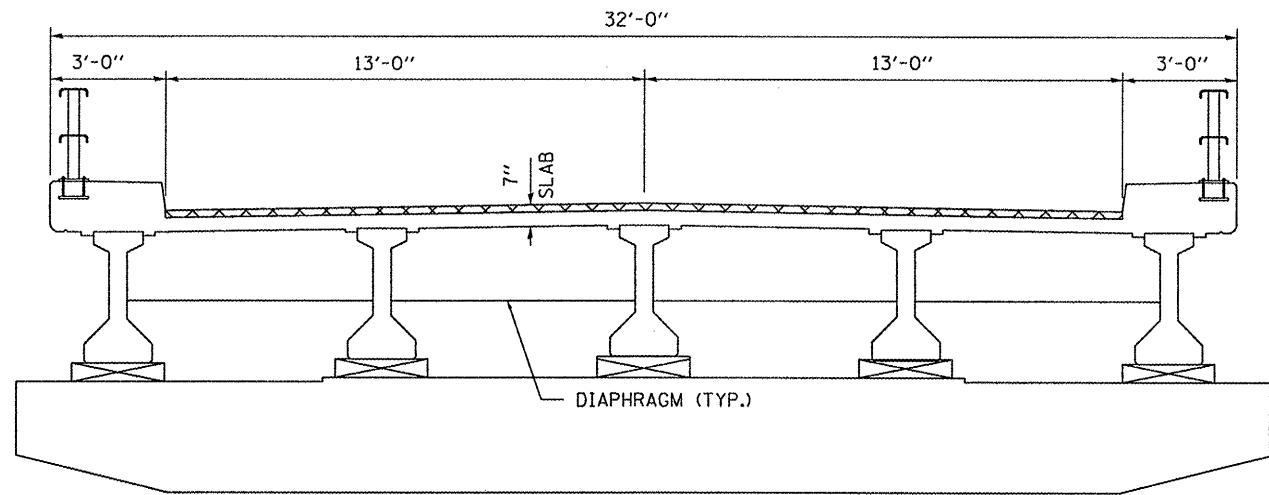
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

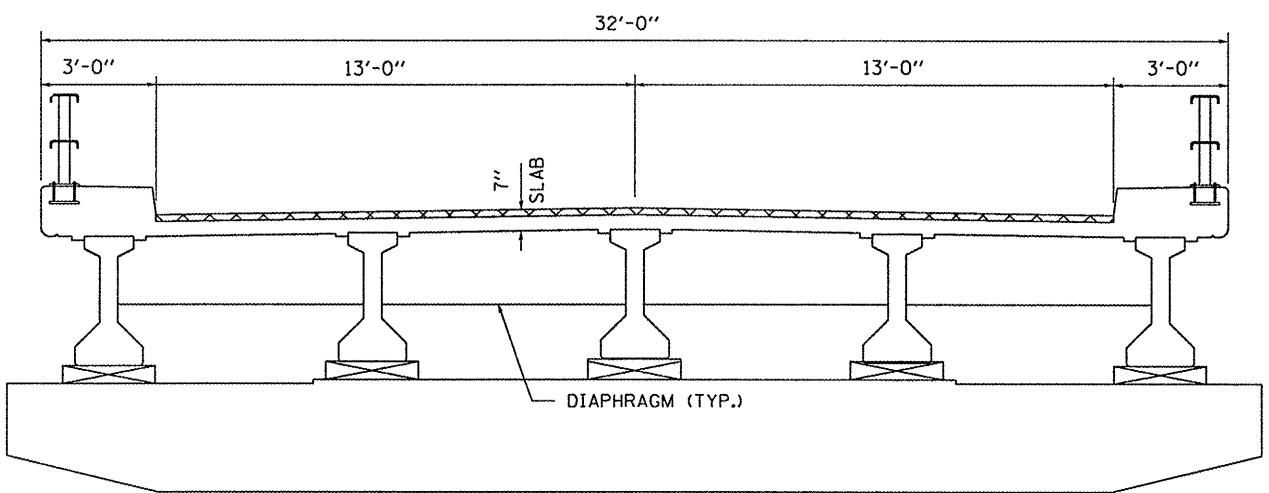
EXISTING SLAB DETAILS AT PIER 1

SCALE: SHEET NO. 7 OF 18 SHEETS STA. TO STA.

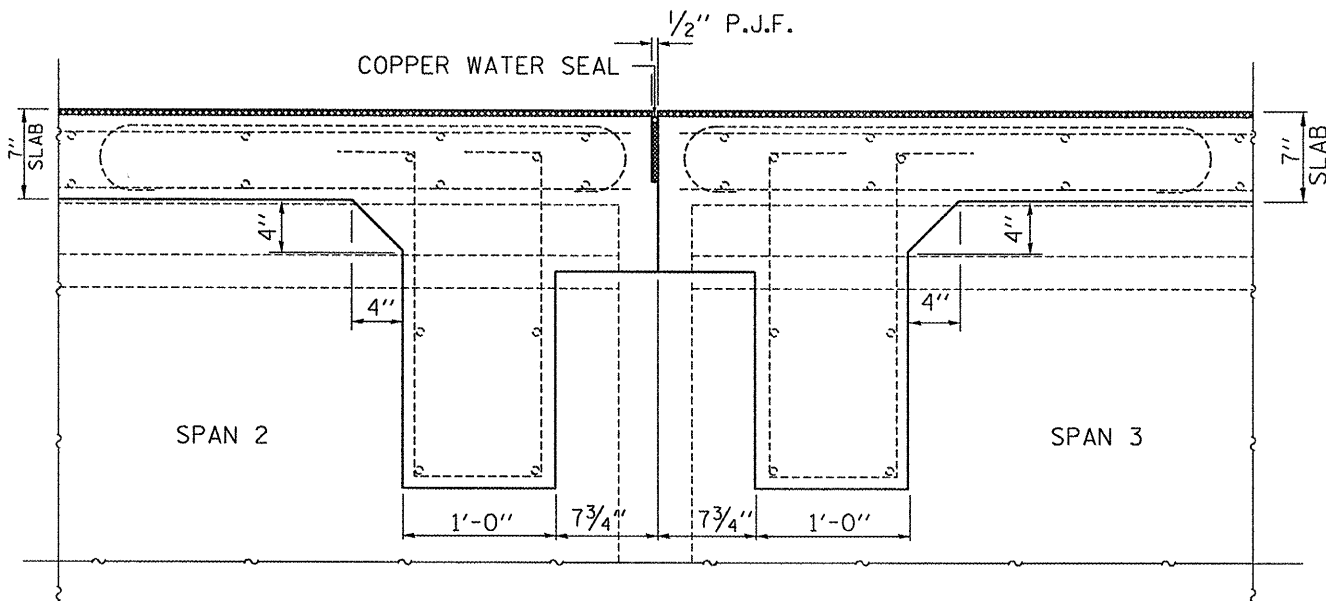
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	14
ILLINOIS			CONTRACT NO. 66935	



**NORTH ELEVATION**  
PIER 2 - SPAN 2



**SOUTH ELEVATION**  
PIER 2 - SPAN 3



**SECTION D-D**

SEE SHEET 2 OF 18

**NOTES**

1/2" P.J.F. SHALL BE REMOVED THRU BRIDGE DECK HYDRO-SCARIFICATION AREA.

COPPER WATER SEAL SHALL BE REMOVED THRU BRIDGE DECK HYDRO-SCARIFICATION AREA.



BRIDGE DECK HYDRO-SCARIFICATION (2 1/4")

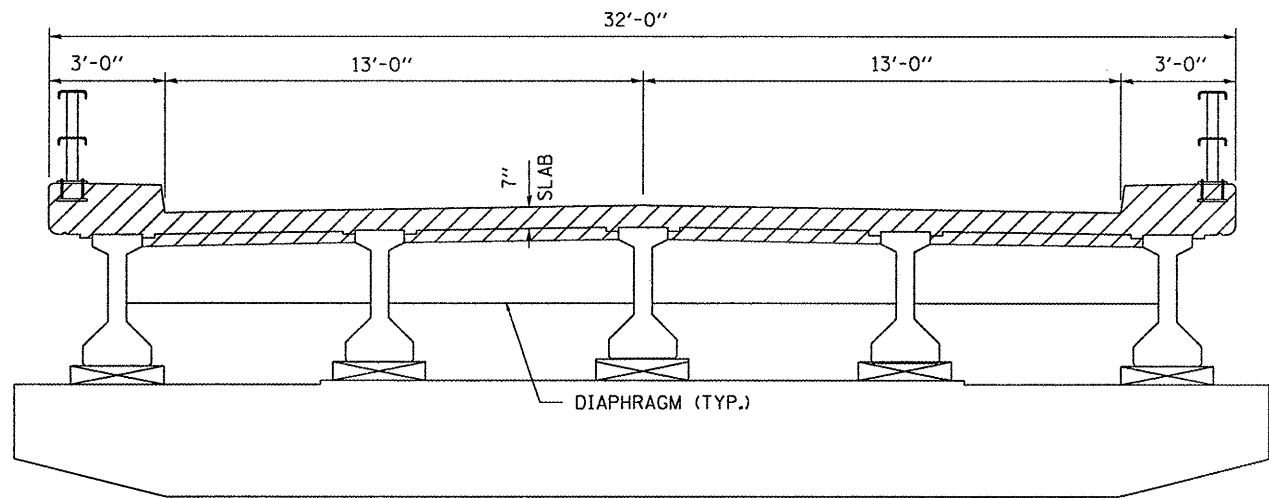
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

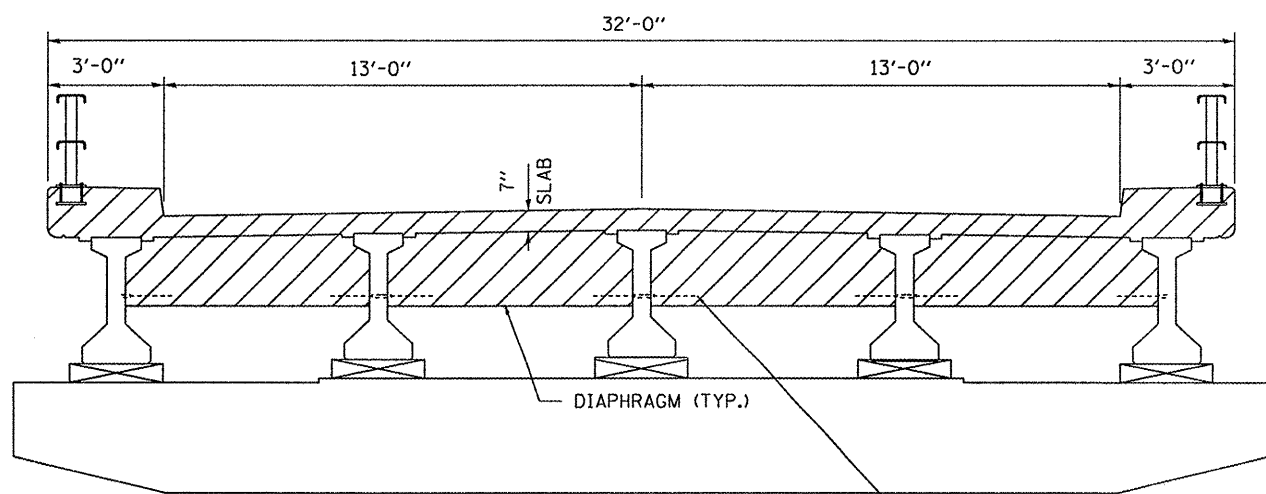
**EXISTING SLAB DETAILS AT PIER 2**

SCALE: SHEET NO. 8 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	15
CONTRACT NO. 66935			ILLINOIS	

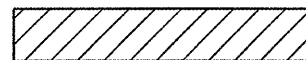


**NORTH ELEVATION**  
PIER 3 - SPAN 3



**SOUTH ELEVATION**  
PIER 3 - SPAN 4

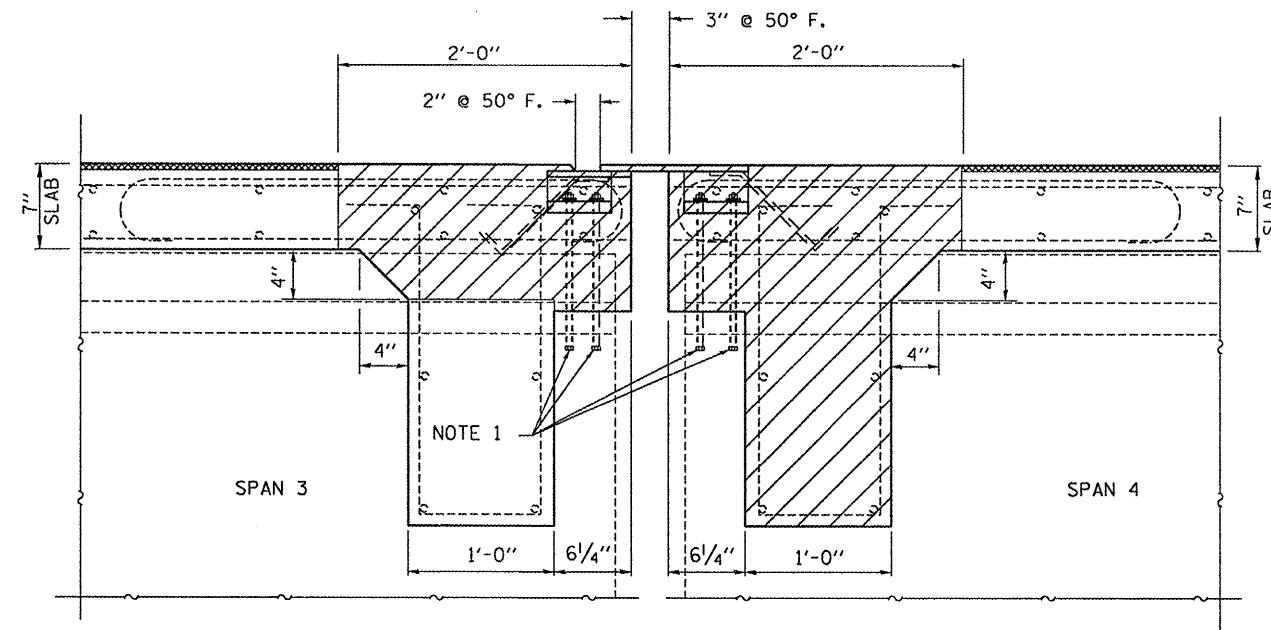
THREADED RODS SHALL BE STRAIGHTENED, CLEANED AND INCORPORATED INTO THE NEW CONCRETE



CONCRETE REMOVAL



BRIDGE DECK HYDRO-SCARIFICATION (1/2")

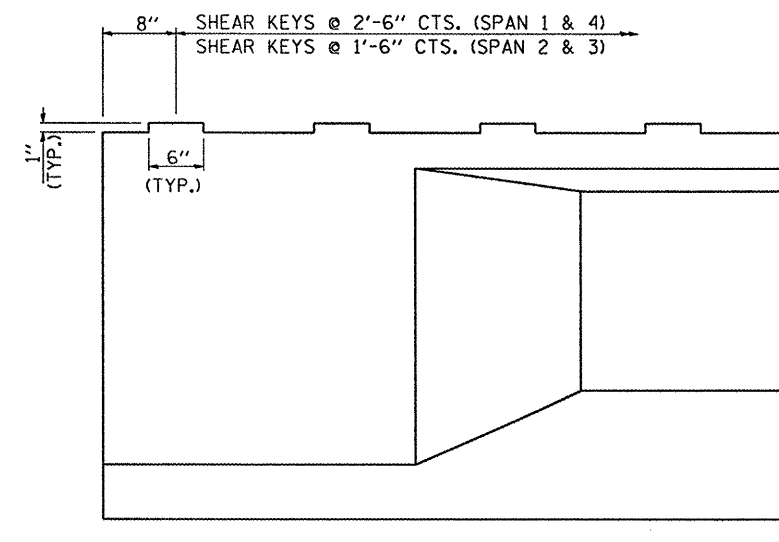


**SECTION E-E**

SEE SHEET 2 OF 18

NOTE: 1 EXISTING ANCHOR BOLTS EXTENDING FROM PPC BEAMS SHALL BE CUT FLUSH WITH TOP OF BEAM AND GROUND FLAT.

NOTE: 2 6" x 1" SHEAR KEYS ON PPC I-BEAMS ARE TO BE SALVAGED. (TYPICAL AT JOINTS)



**ELEVATION AT BEAM END**

FILE NAME =	USER NAME = *USER*	DESIGNED - RON WOODSHANK	REVISED -
*FILEL*		DRAWN - RON WOODSHANK	REVISED -
	PLDT SCALE = *SCALE*	CHECKED -	REVISED -
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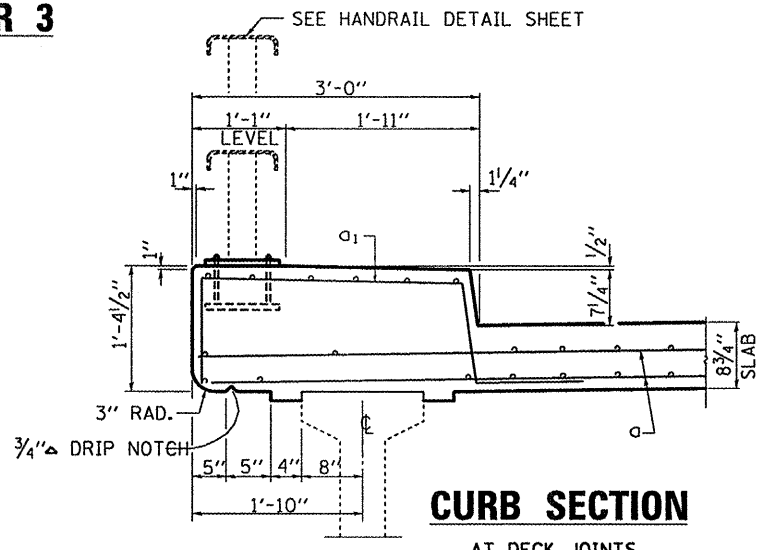
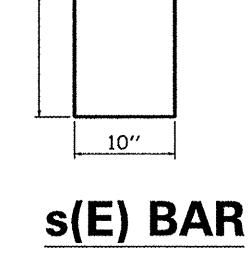
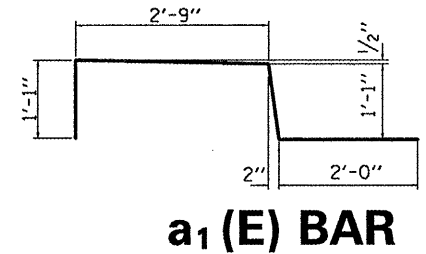
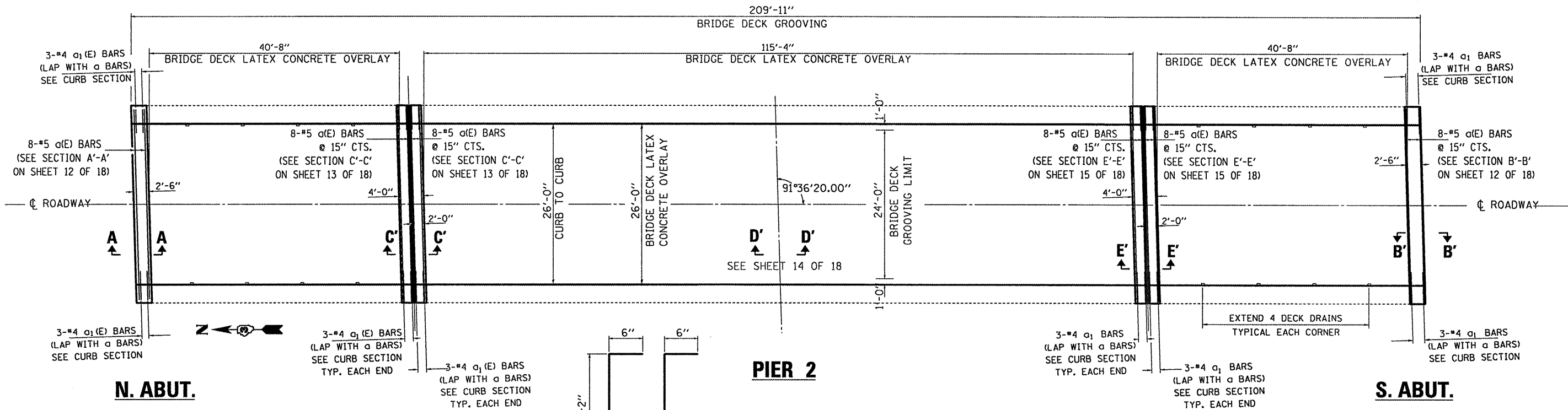
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**EXISTING SLAB DETAILS AT PIER 3**

SCALE: SHEET NO. 9 OF 18 SHEETS STA. TO STA.

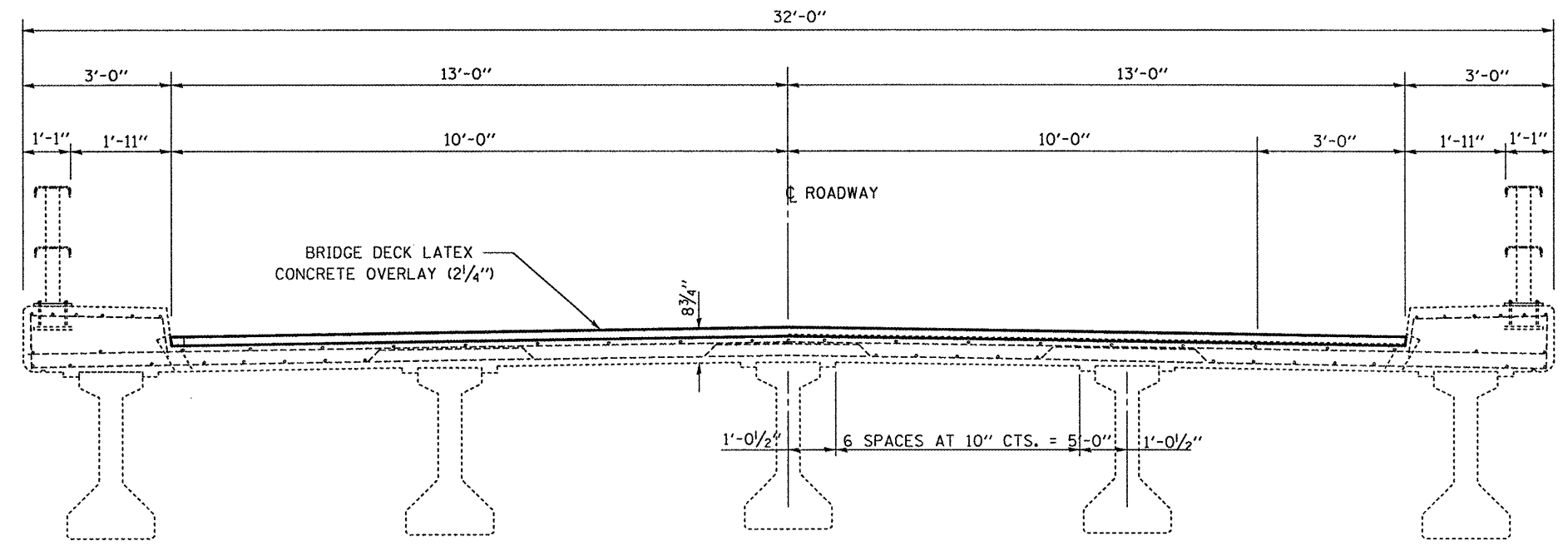
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	16
ILLINOIS			CONTRACT NO. 66935	





**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	48	#5	31'-8"	—	
a1(E)	36	#4	6'-11"	—	
a2(E)	16	#4	6'-4"	—	
a3(E)	8	#6	6'-4"	—	
h(E)	8	#4	31'-0"	—	
h1(E)	8	#4	2'-9"	—	
h2(E)	16	#4	4'-9"	—	
s(E)	20	#4	4'-0"	—	
v(E)	8	#4	3'-4"	—	
v1(E)	8	#4	2'-4"	—	
REINFORCEMENT BARS, EPOXY COATED				POUND	2210



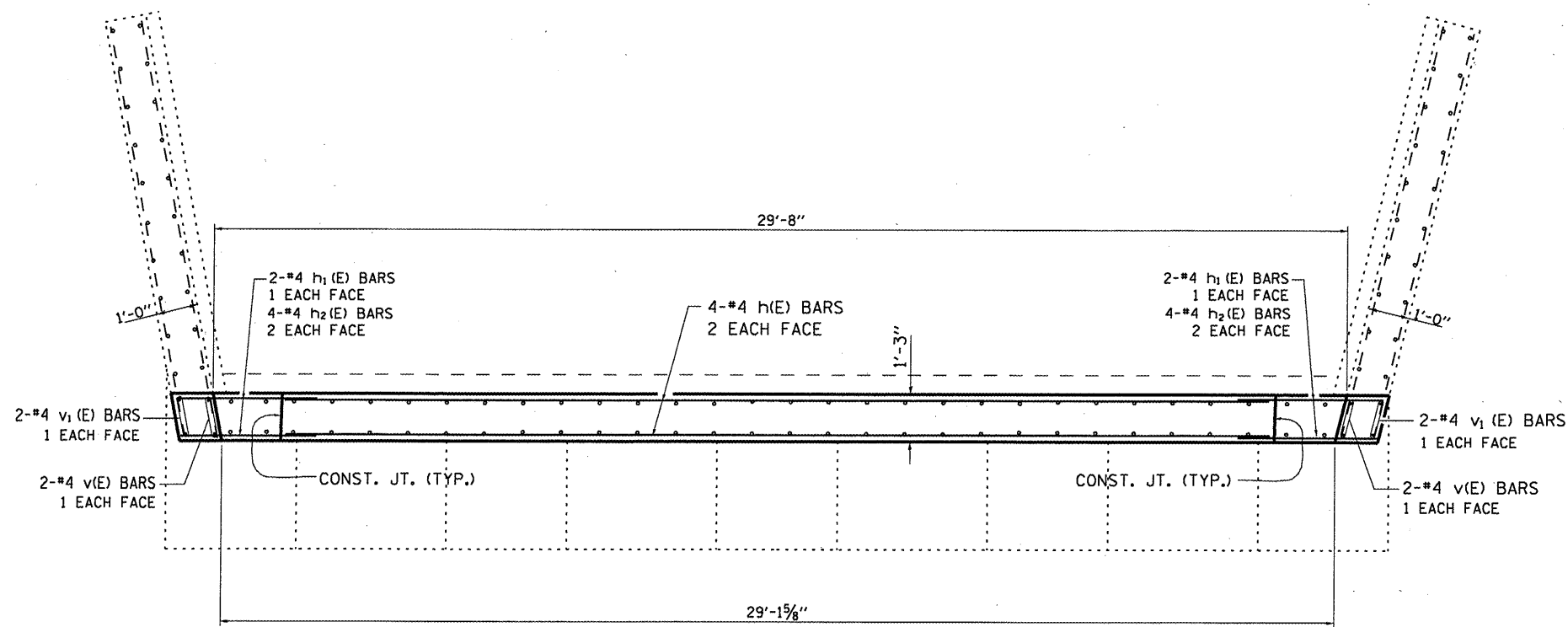
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

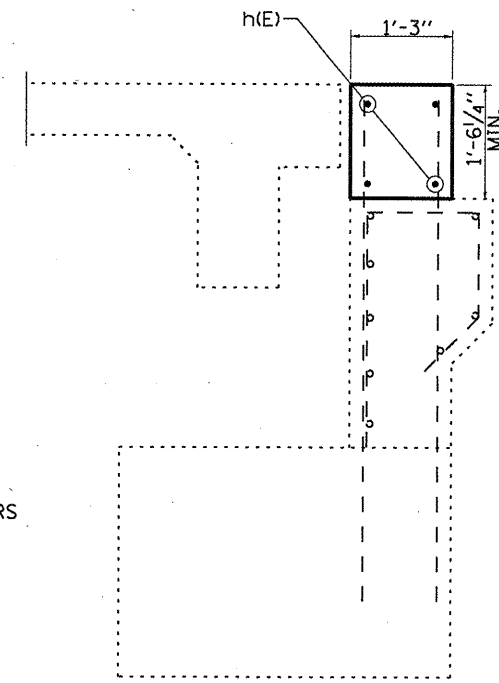
**PROPOSED PLAN AND CROSS SECTION**

SCALE: SHEET NO. 10 OF 18 SHEETS STA. TO STA.

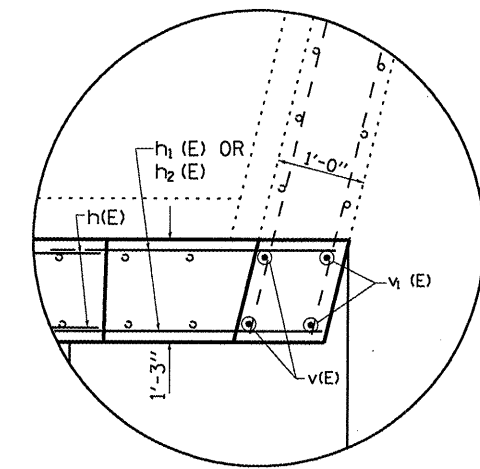
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	17
ILLINOIS			CONTRACT NO. 66935	



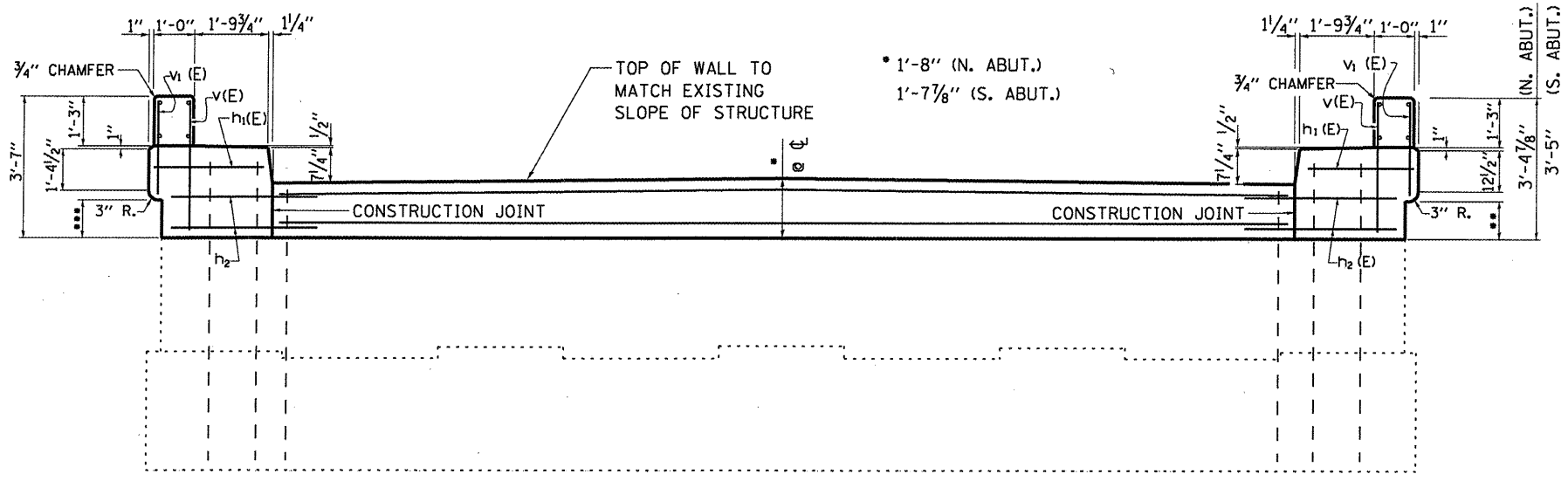
**PLAN**



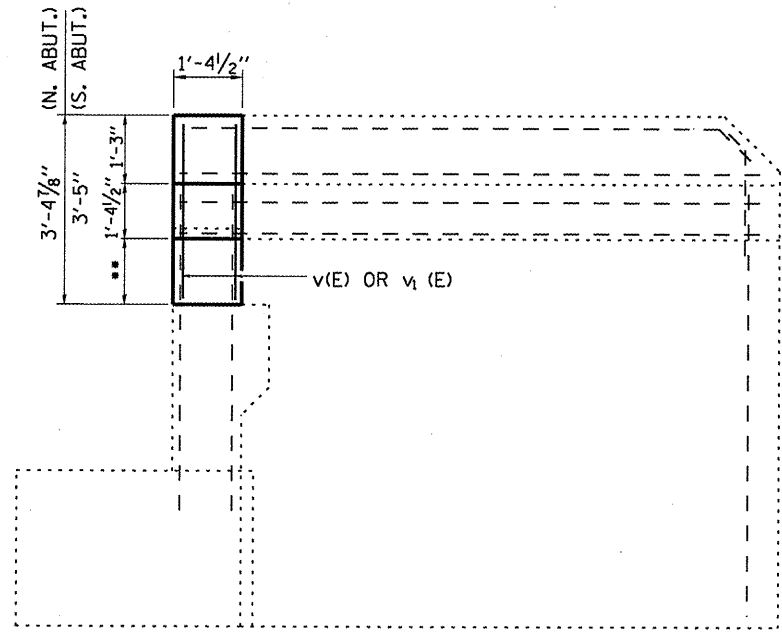
**SECTION THRU ABUT.**



**CORNER DETAIL**



**ELEVATION**



**WING WALL ELEVATION**

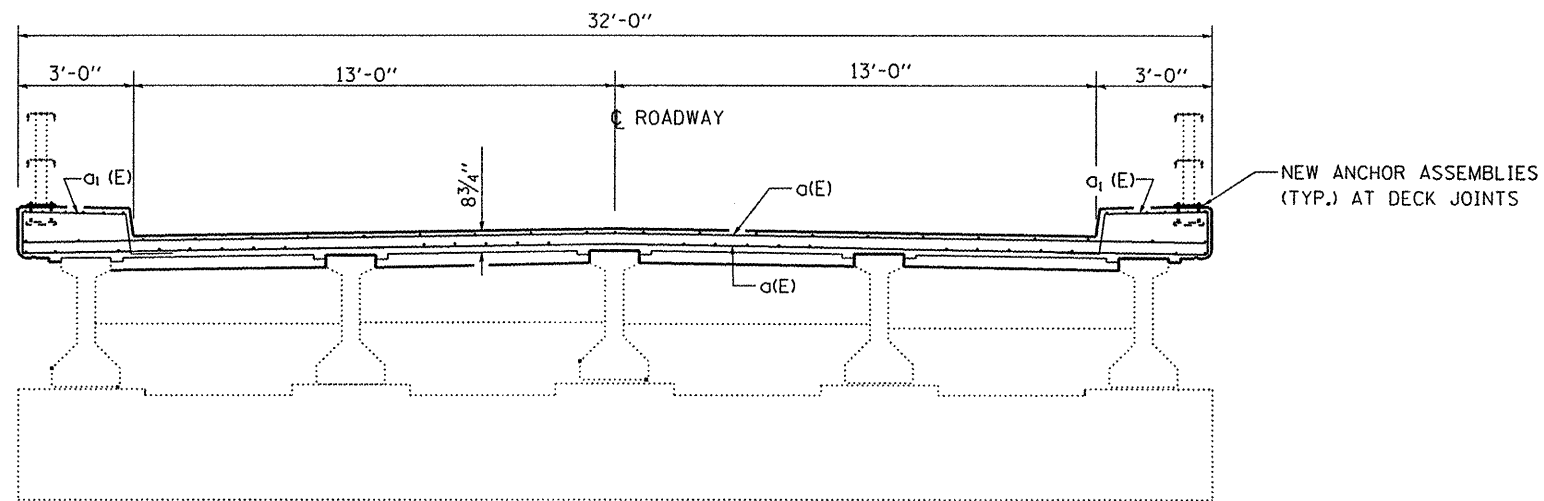
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cd:\pwork\PW100T\WOODSHANKR1\dms91659	D366935-details.dgn	DRAWN - RON WOODSHANK	REVISED -
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	PLOT DATE = Apr 07, 2009 - 07:53:00 AM	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

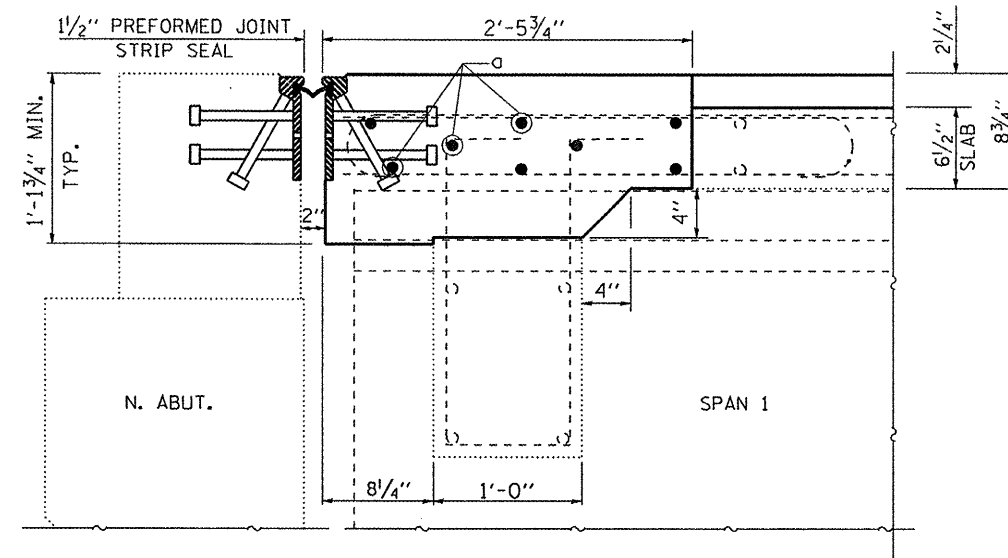
**PROPOSED ABUTMENT DETAILS**

SCALE: \_\_\_\_\_ SHEET NO. 11 OF 18 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

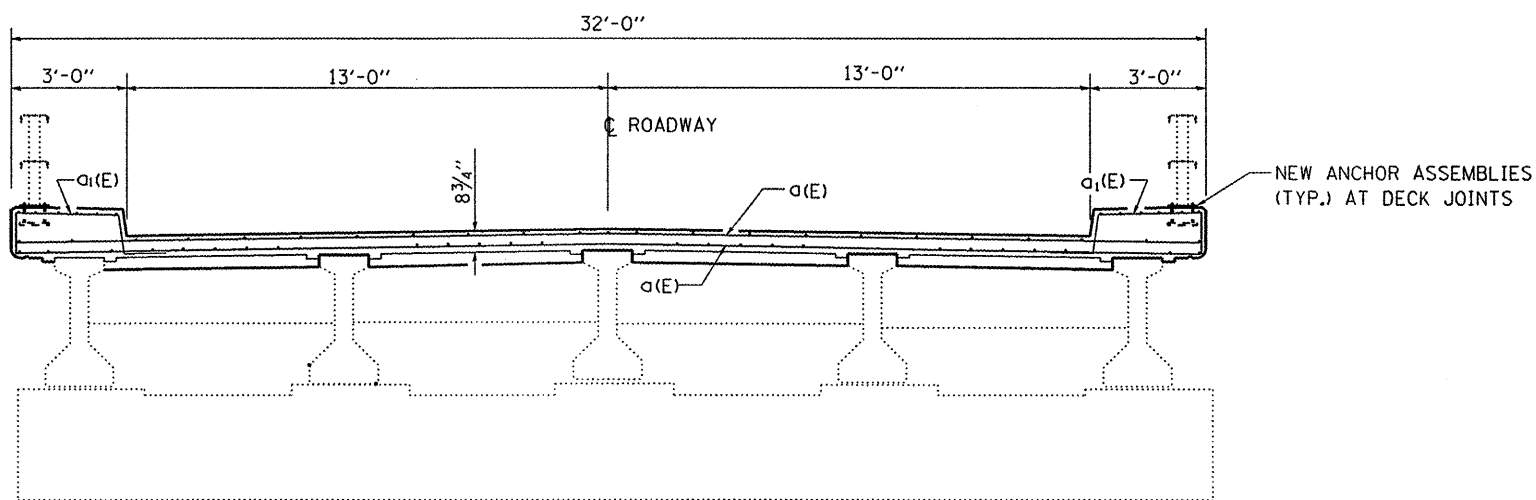
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	18
ILLINOIS			CONTRACT NO. 66935	



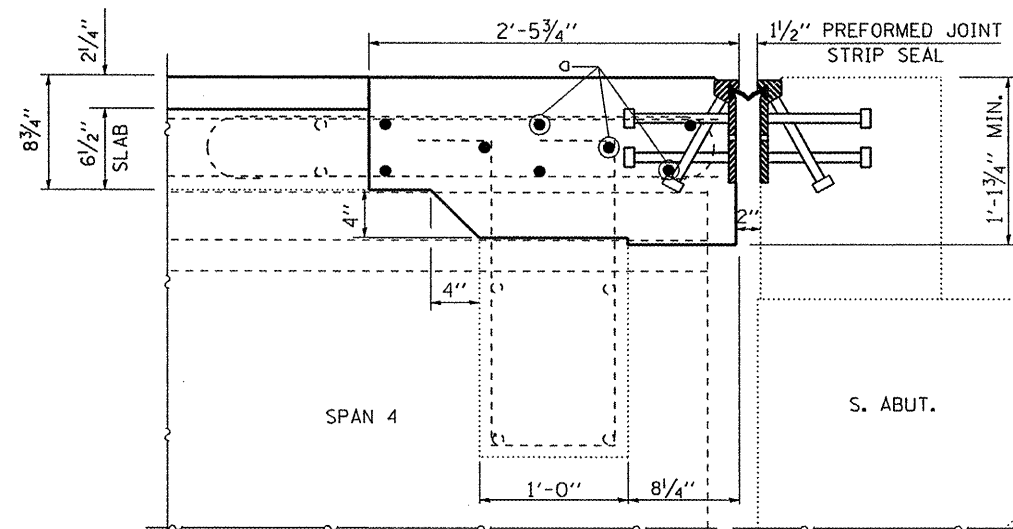
**SOUTH ELEVATION**  
**NORTH ABUTMENT**



**SECTION A'-A'**



**NORTH ELEVATION**  
**SOUTH ABUTMENT**



**SECTION B'-B'**

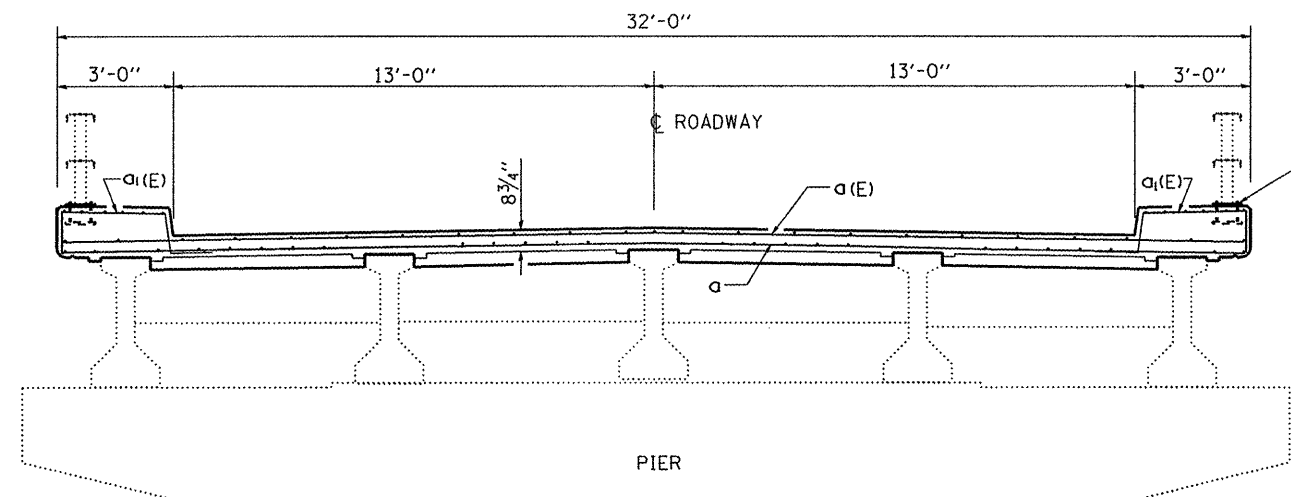
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED SLAB DETAILS AT ABUTMENTS**

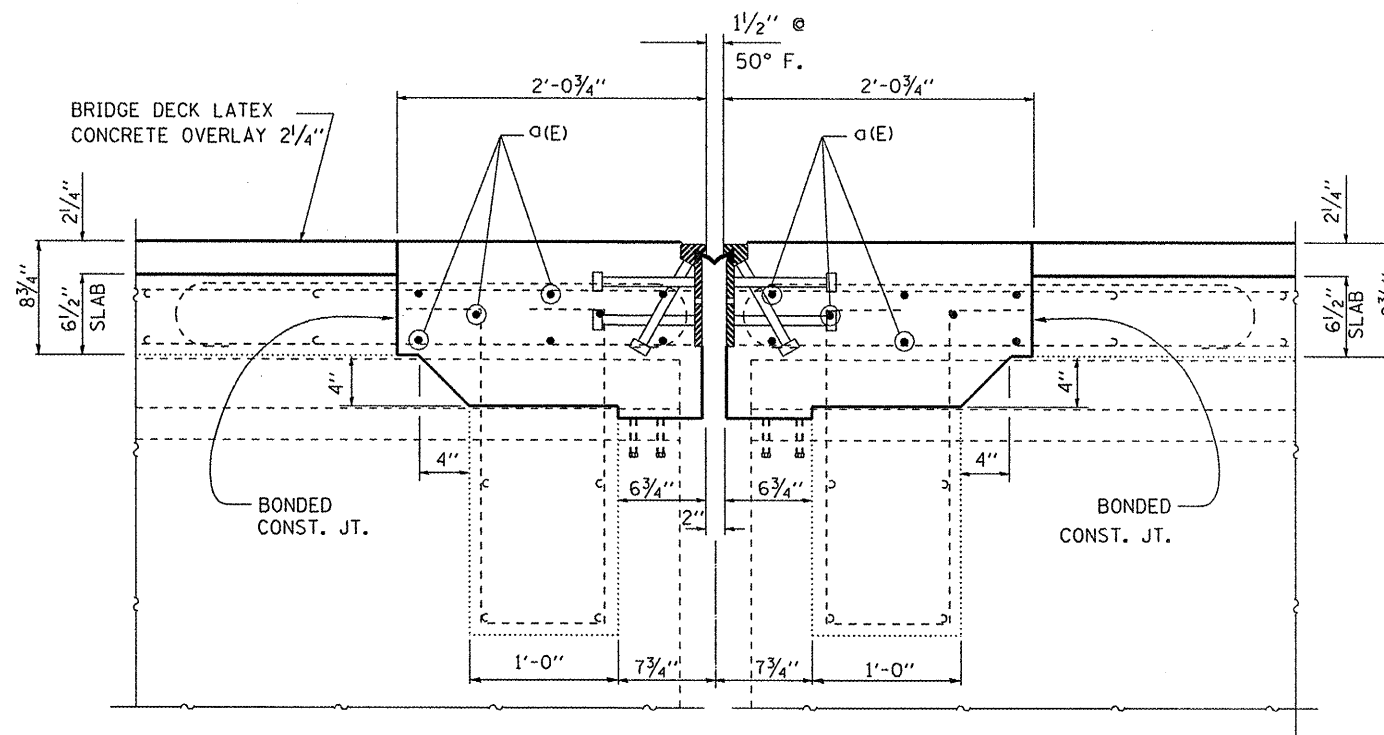
SCALE: SHEET NO. 12 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	19
CONTRACT NO. 66935			ILLINOIS	

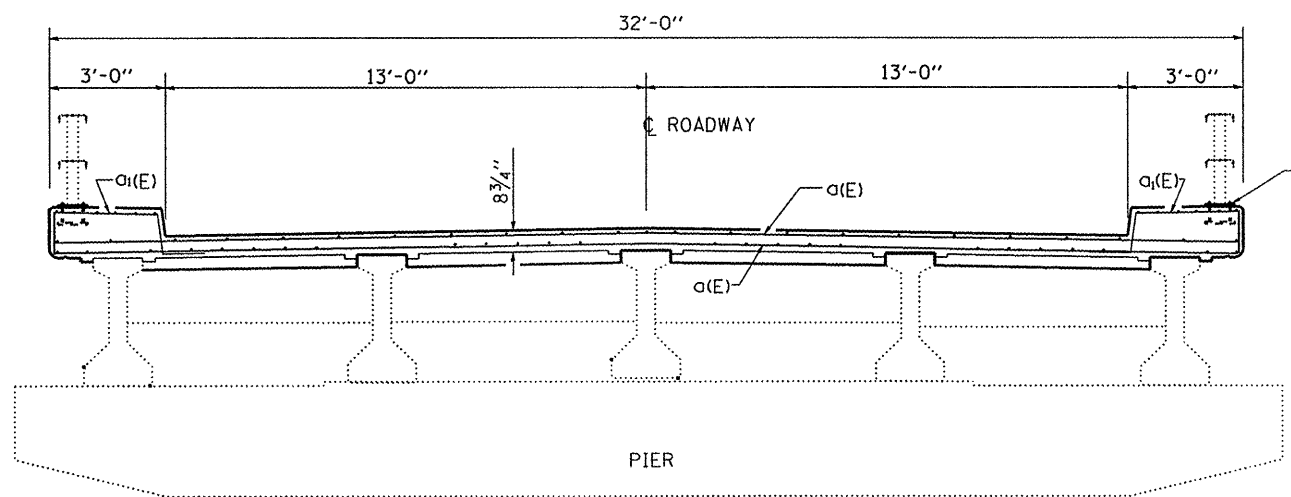


**NORTH ELEVATION**  
PIER 1 - SPAN 1

NEW ANCHOR ASSEMBLIES  
(TYP.) AT DECK JOINTS



**SECTION C'-C'**



**SOUTH ELEVATION**  
PIER 1 - SPAN 2

NEW ANCHOR ASSEMBLIES  
(TYP.) AT DECK JOINTS

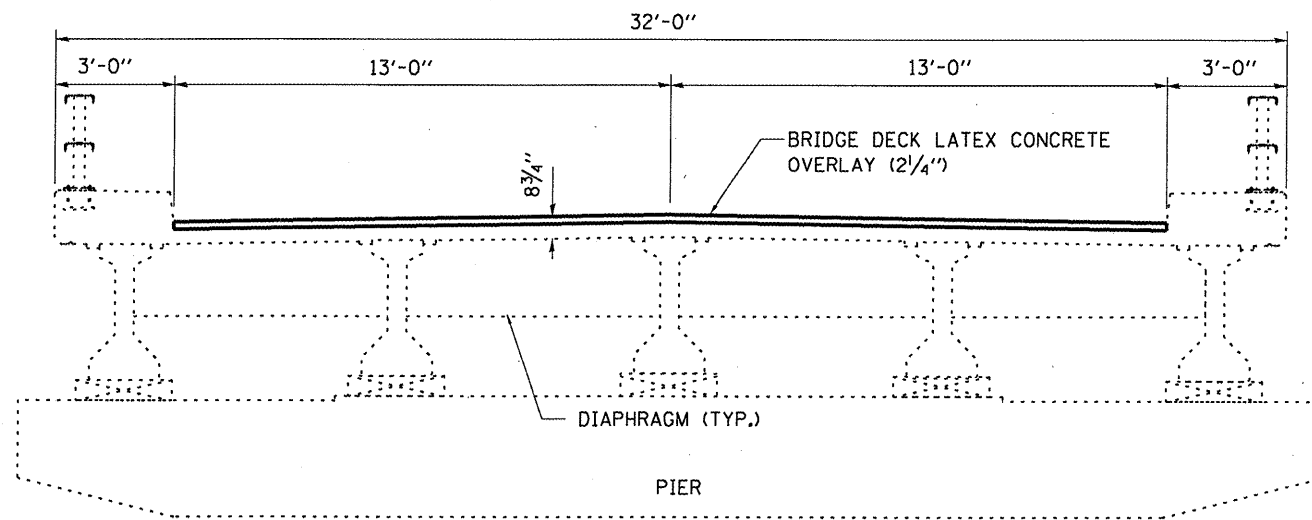
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

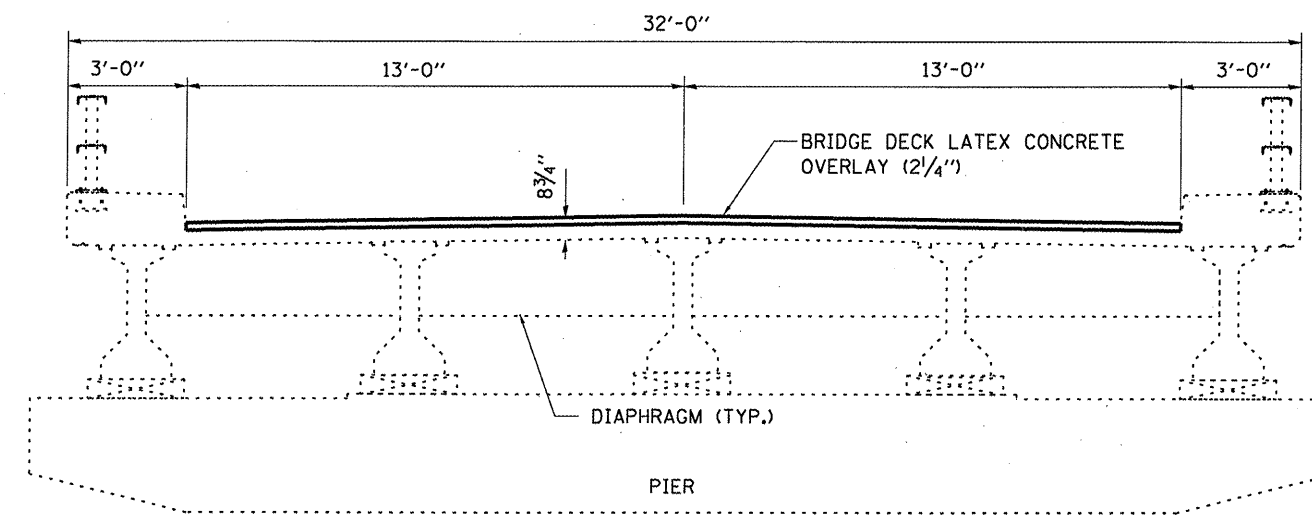
PROPOSED SLAB DETAILS AT PIER 1

SCALE: SHEET NO. 13 OF 18 SHEETS STA. TO STA.

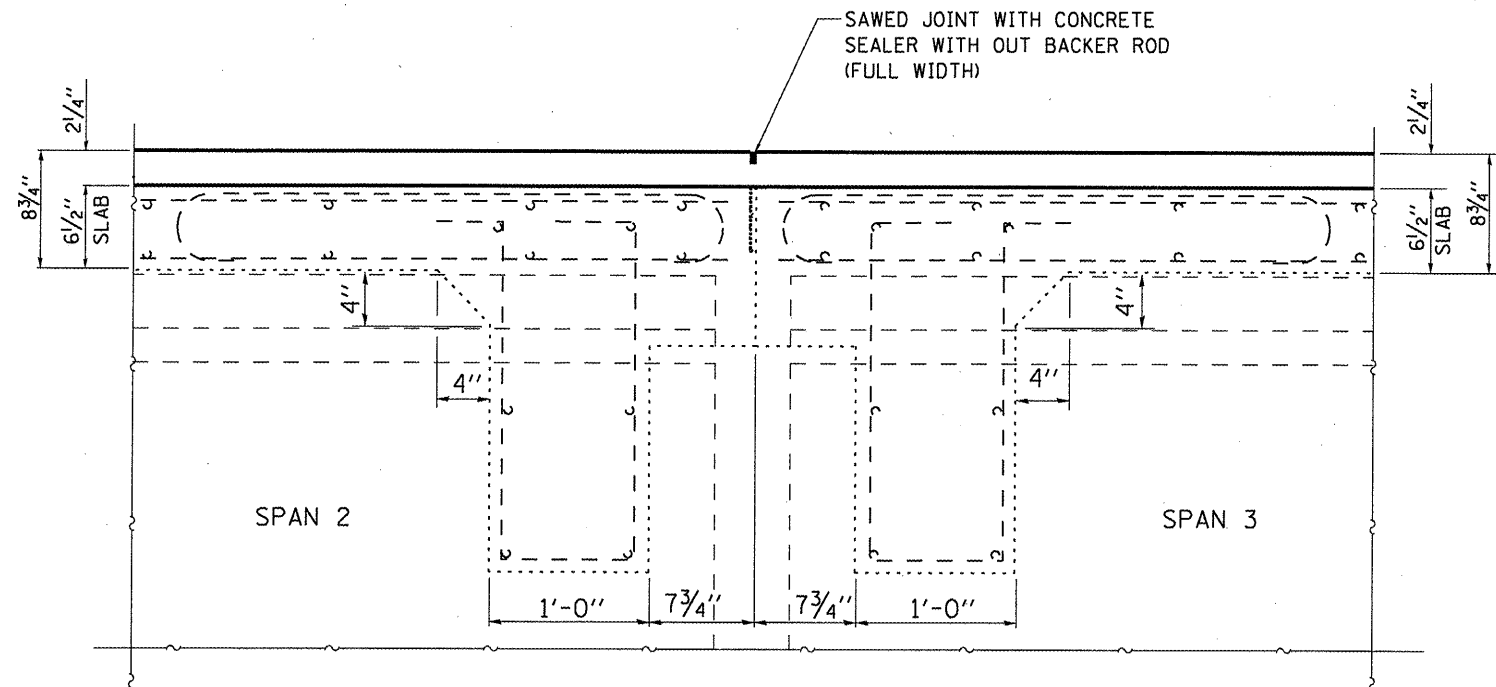
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-411)	LASALLE	25	20
			CONTRACT NO. 66935	
ILLINOIS				



**NORTH ELEVATION**  
PIER 2 - SPAN 2



**SOUTH ELEVATION**  
PIER 2 - SPAN 3



**SECTION D'-D'**

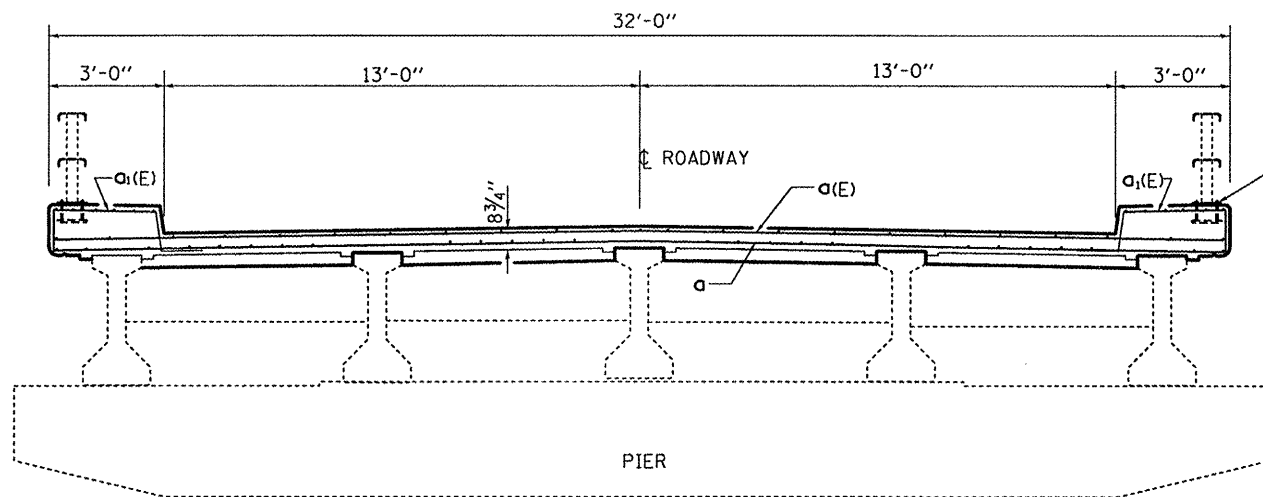
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	PLOT DATE = Apr 07, 2009 - 07:53:17 AM	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED SLAB DETAILS AT PIER 2

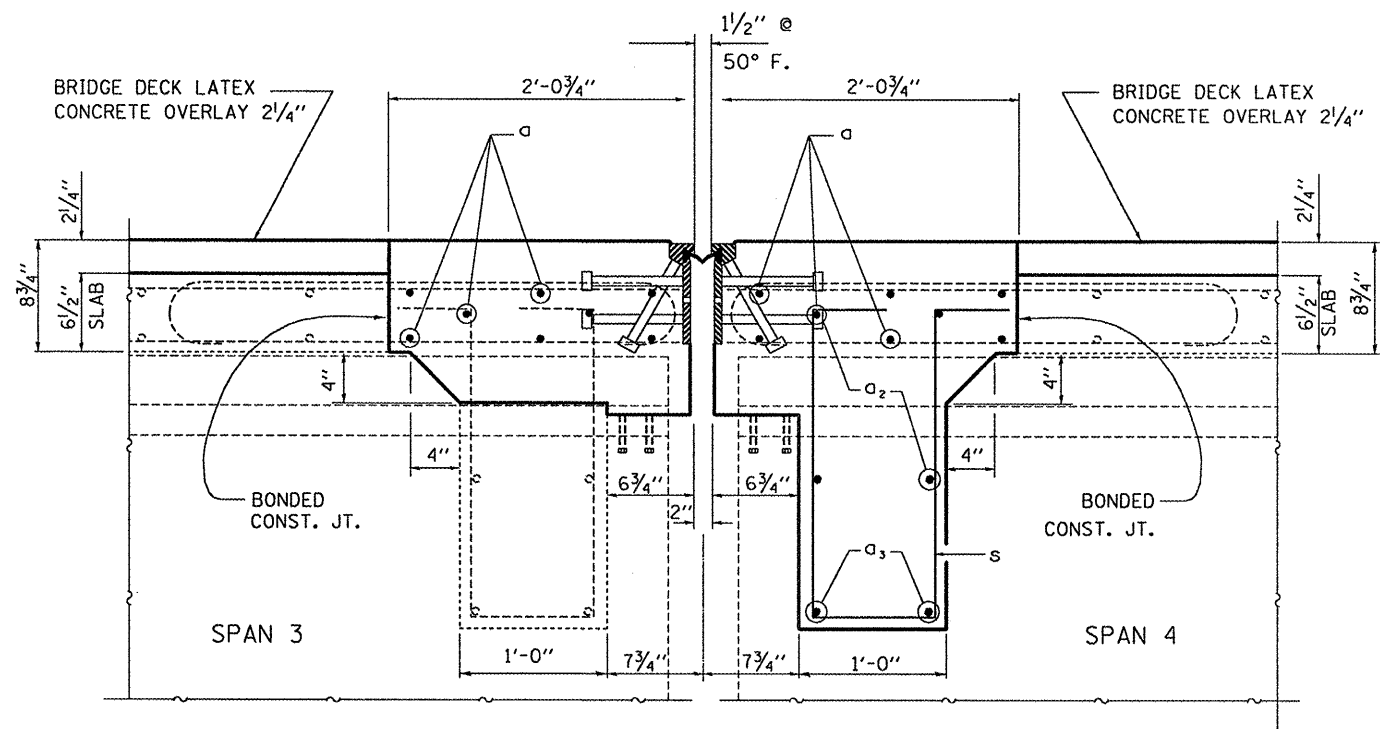
SCALE: SHEET NO. 14 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	21
CONTRACT NO. 66935			ILLINOIS	

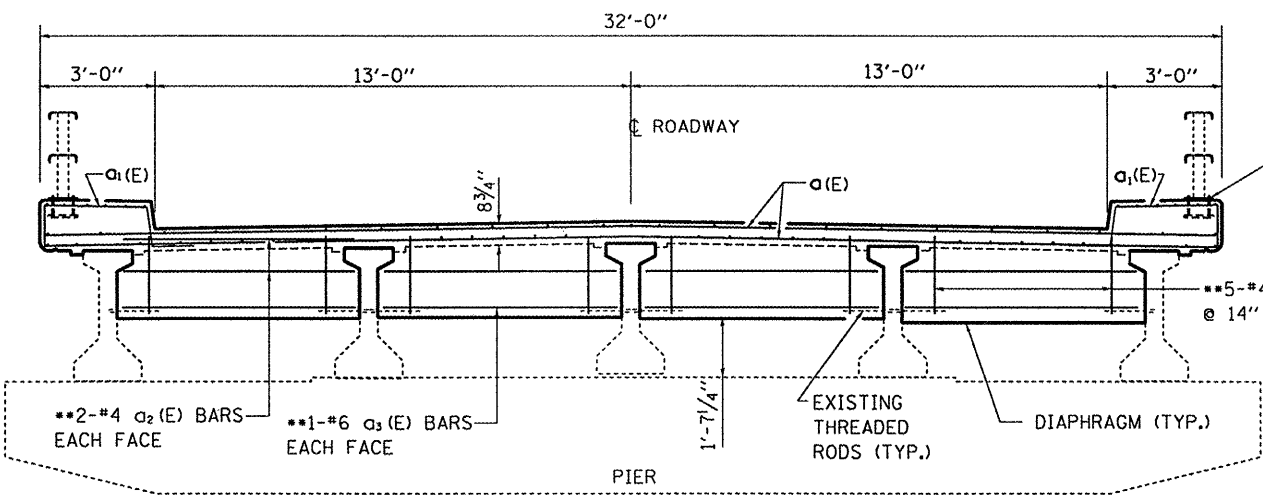


**NORTH ELEVATION**  
PIER 3 - SPAN 3

NEW ANCHOR ASSEMBLIES  
(TYP.) AT DECK JOINTS



**SECTION E'-E'**



**SOUTH ELEVATION**  
PIER 3 - SPAN 4

NEW ANCHOR ASSEMBLIES  
(TYP.) AT DECK JOINTS

\*\*5-#4 s(E) BARS  
@ 14" cts.

\*\*2-#4 alpha\_2(E) BARS  
EACH FACE

\*\*1-#6 alpha\_3(E) BARS  
EACH FACE

EXISTING  
THREADED  
RODS (TYP.)

\*\* TYPICAL BETWEEN BEAMS

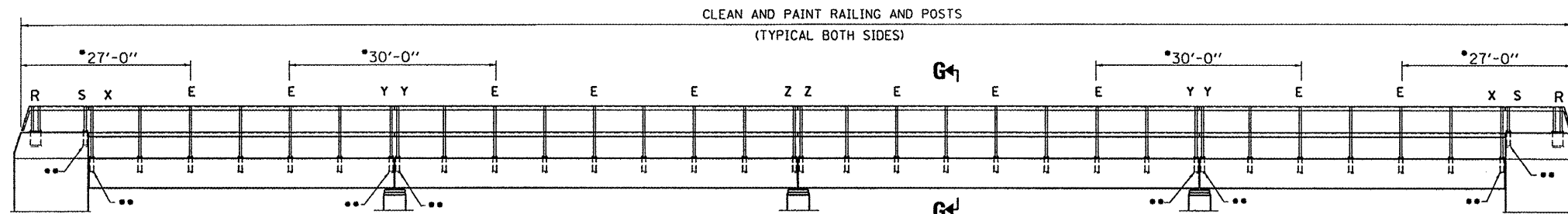
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED SLAB DETAILS AT PIER 3**

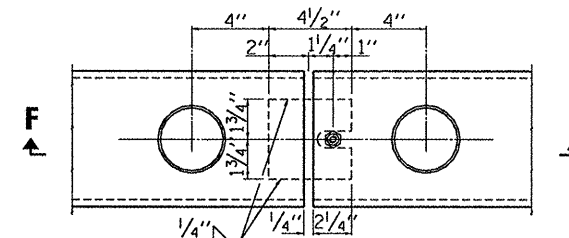
SCALE: SHEET NO. 15 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	22
ILLINOIS			CONTRACT NO. 66935	

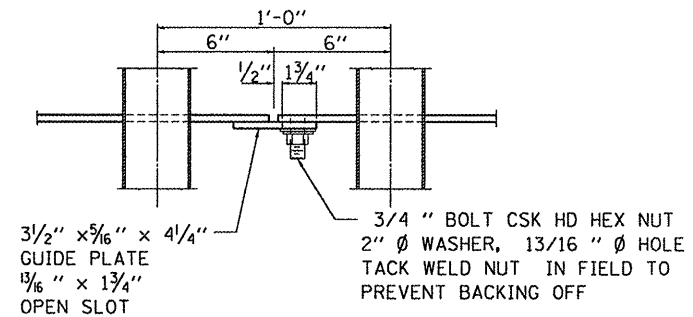


**INSIDE ELEVATION**

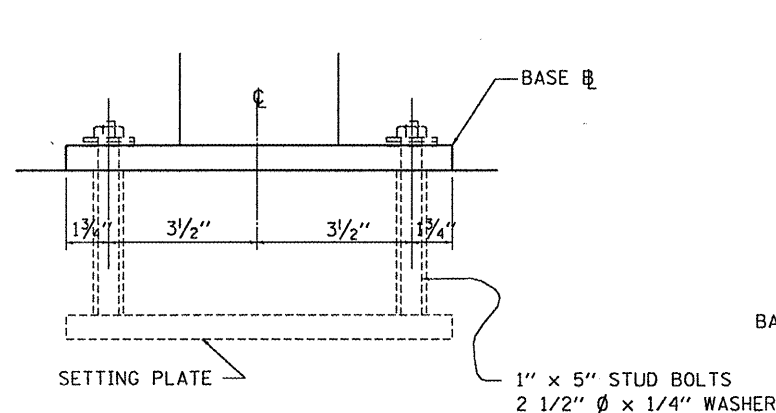
\* REMOVE AND RE-INSTALL HANDRAIL  
 \*\* REMOVE AND REPLACE ANCHOR ASSEMBLY



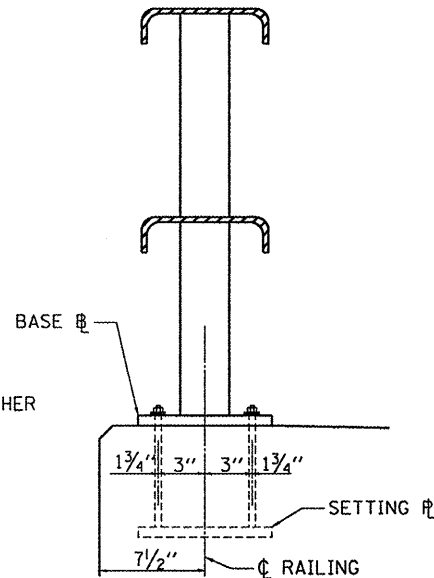
**SECTION E-E**



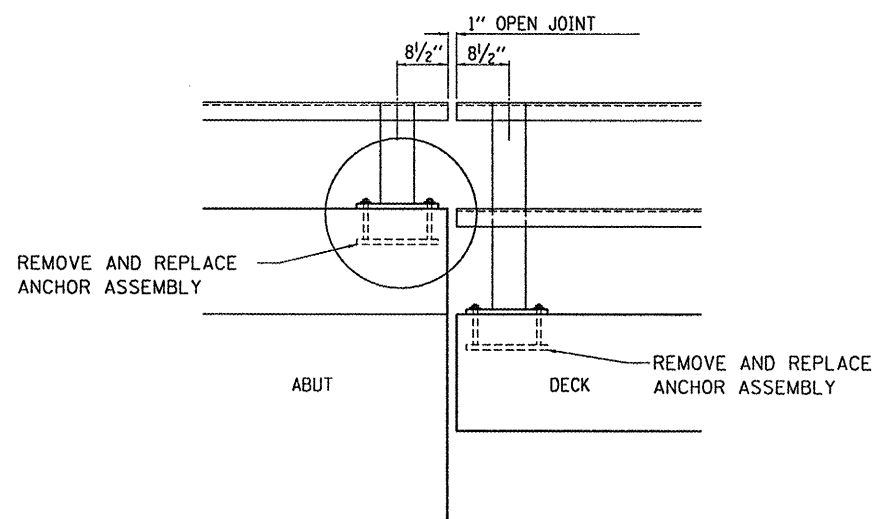
**SECTION F-F**



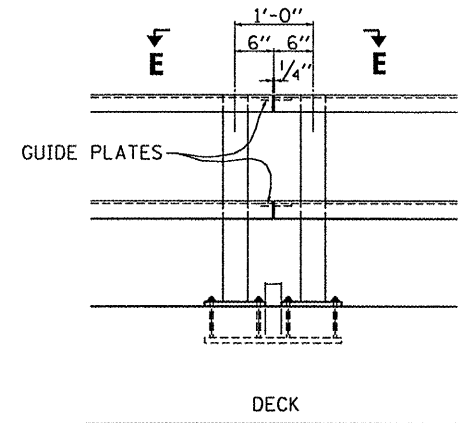
**ANCHOR DETAIL FOR POST "S", "X", "Y"**



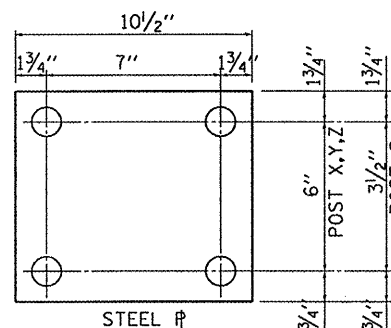
**SECTION G-G**



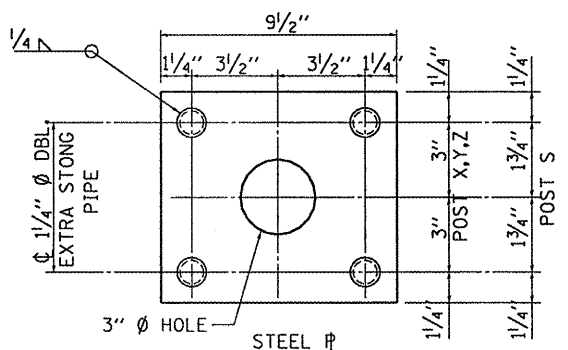
**END POSTS S & X**



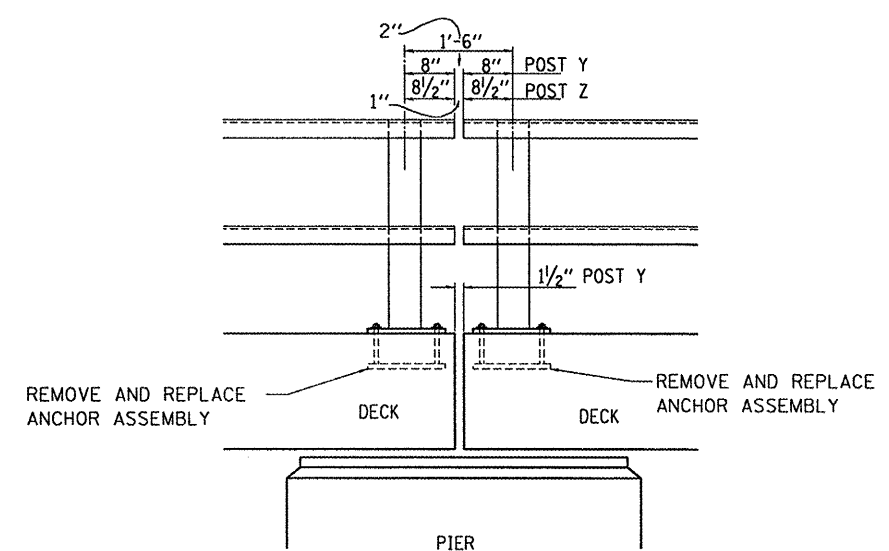
**POSTS E**



**BASE PLATE - END POSTS (S,X,Y)**  
 (16 REQUIRED)



**SETTLING PLATE - END POSTS (S,X,Y)**  
 (16 REQUIRED)



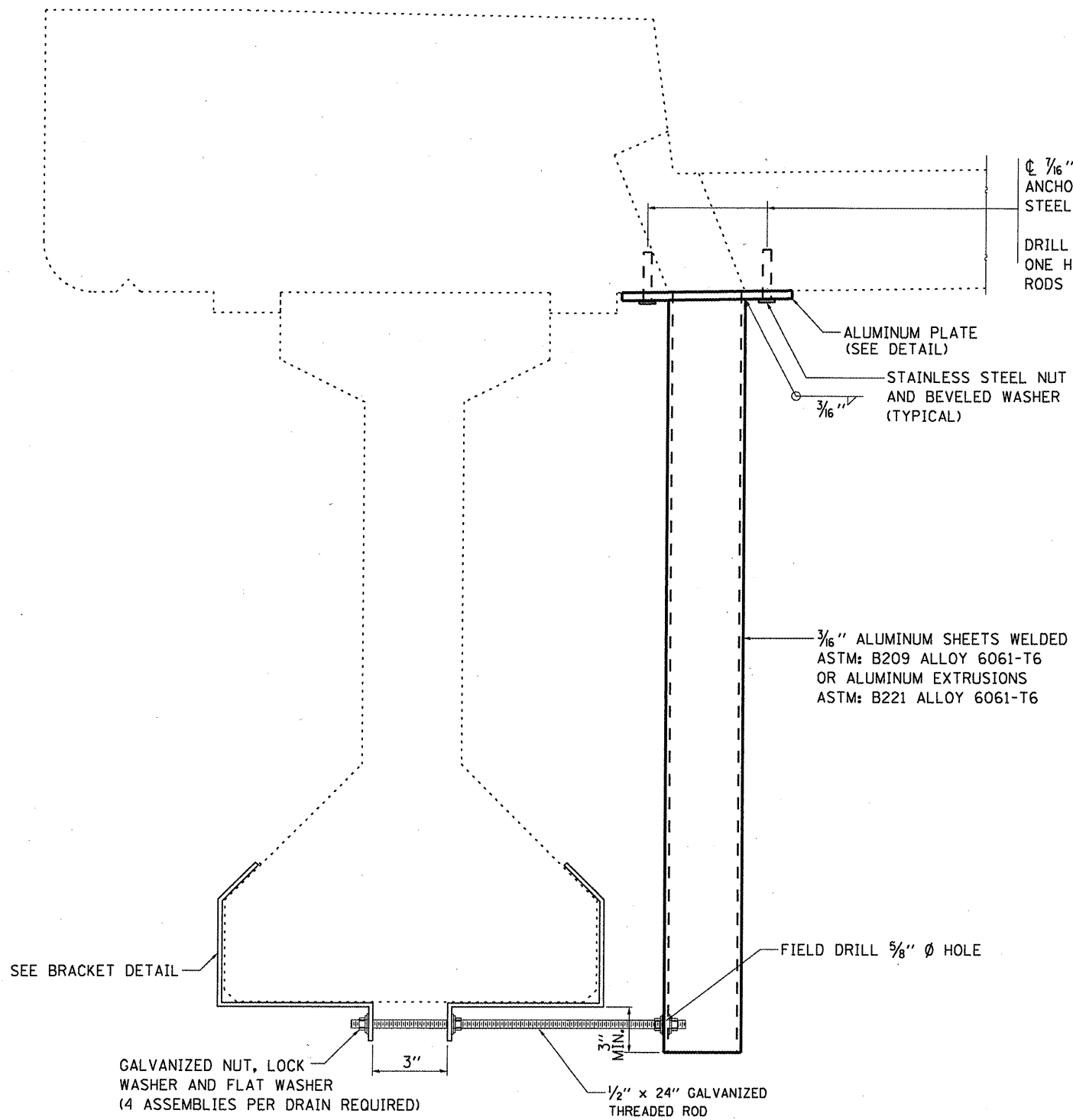
**END POST Y**

FILE NAME =	USER NAME = #USER#	DESIGNED - RON WOODSHANK	REVISED -
#FILE#		DRAWN - RON WOODSHANK	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

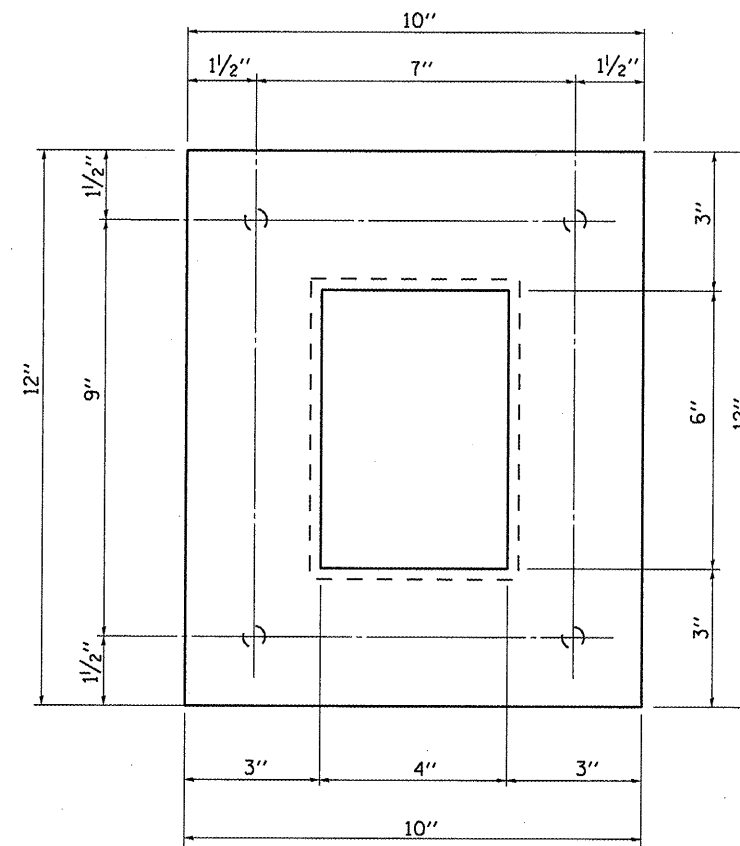
**HANDRAIL DETAILS**  
 SCALE: SHEET NO. 16 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-41)	LASALLE	25	23
			CONTRACT NO. 66935	
ILLINOIS				

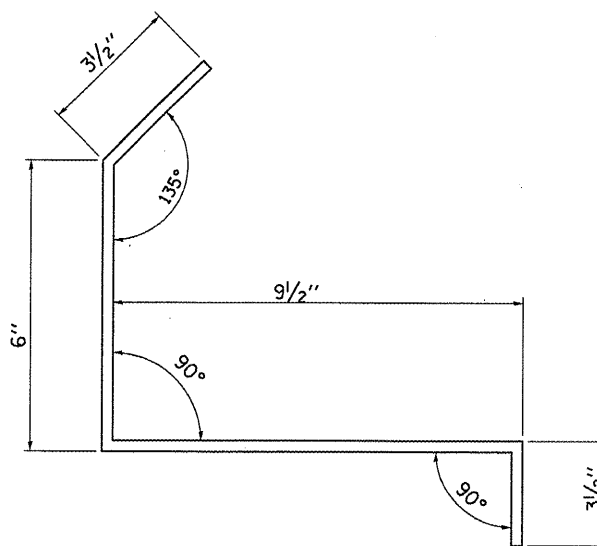


**CURB ELEVATION**

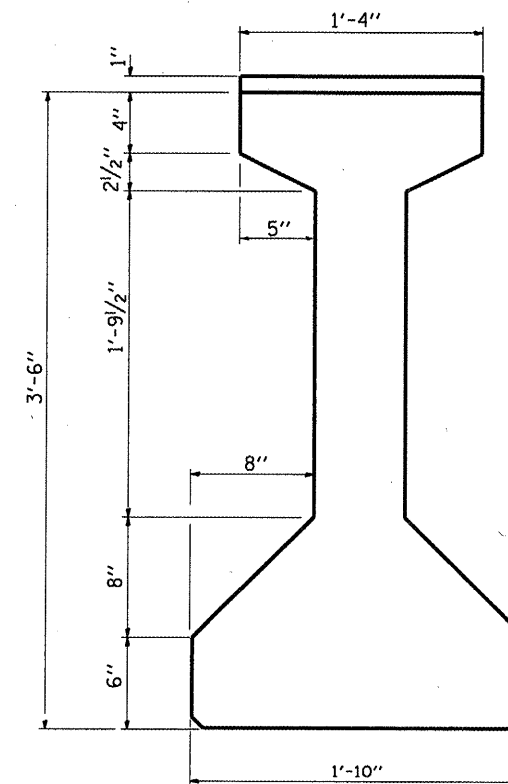
Ø 3/16" Ø x 3" STAINLESS STEEL ANCHOR BOLTS WITH STAINLESS STEEL NUT AND BEVELED WASHER  
 DRILL AND GROUT, GRADE 3 EPOXY, ONE HOUR MINIMUM CURE. HOLD RODS DURING CURE.



**1/4" x 10" X 1'-0"  
ALUMINUM PLATE**



**1/4" x 2" x 1'-10 1/2" BRACKET  
(2 REQUIRED PER BEAM)**



**BEAM END SECTION**

FILE NAME =	USER NAME = woodshank-r	DESIGNED - RON WOODSHANK	REVISED -
ct:\pw\work\FWIDOT\WOODSHANKRL\dms91658	0365935-details.dgn	DRAWN - RON WOODSHANK	REVISED -
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -
PLOT DATE = Apr 07, 2009 - 07:53:35 AM	DATE -	REVISED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

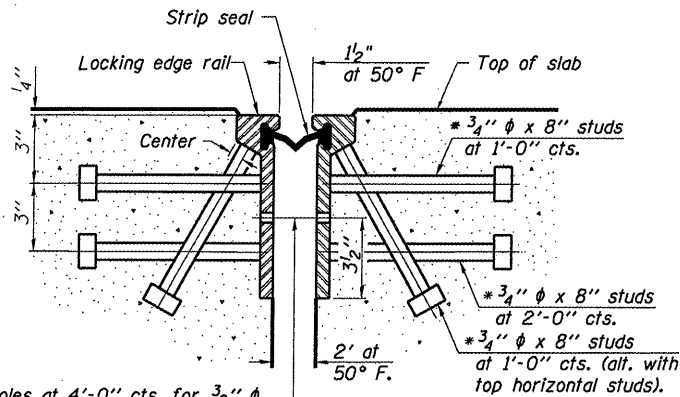
*Floor*  
**DECK DRAIN EXTENSION DETAILS**

F.A.I. RTE. 80	SECTION (50-41)	COUNTY LASALLE	TOTAL SHEETS 25	SHEET NO. 24
CONTRACT NO. 66935			ILLINOIS	

SCALE: SHEET NO. 17 OF 18 SHEETS STA. TO STA.

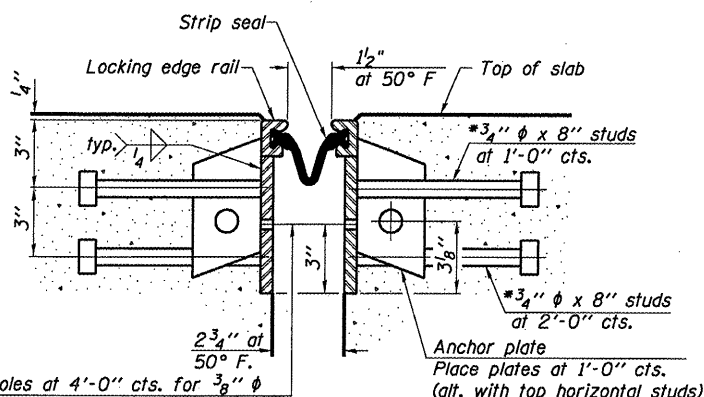


\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

**SECTION THRU ROLLED RAIL JOINT**



7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

**SECTION THRU WELDED RAIL JOINT**

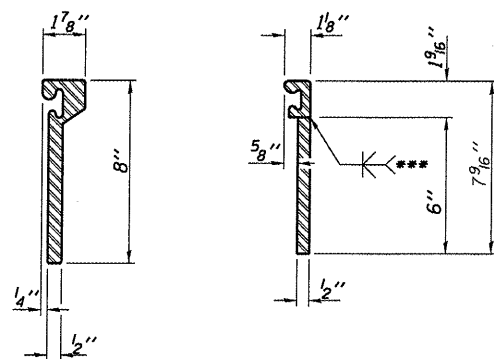
**Notes:**

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

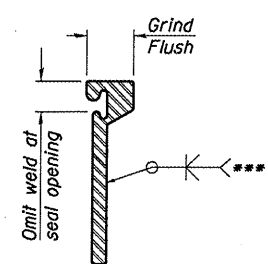
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



**ROLLED EXTRUDED RAIL WELDED RAIL**

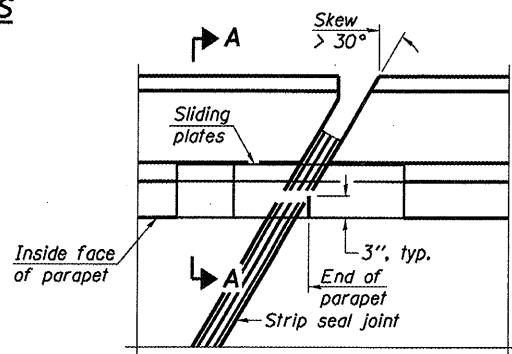


\*\*\*Back gouge not required if complete joint penetration is verified by mock-up.

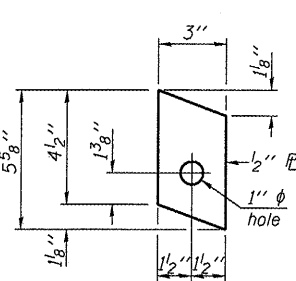
**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.

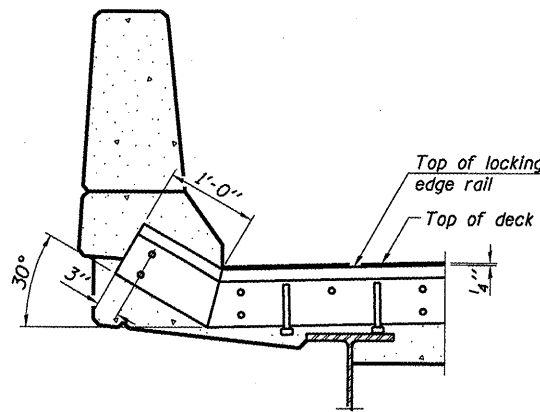
**LOCKING EDGE RAILS**



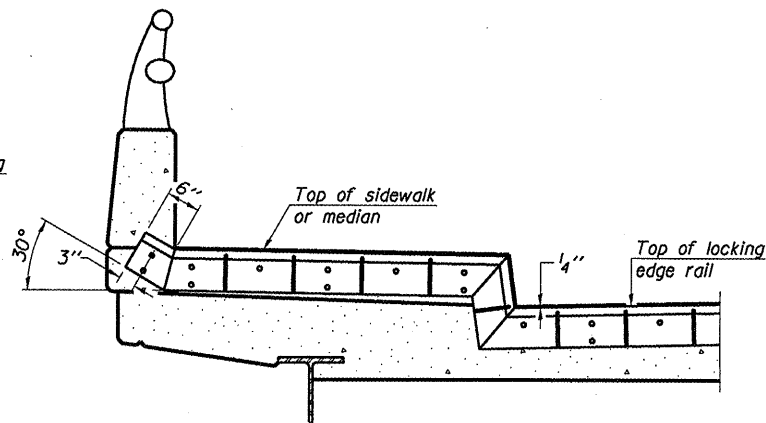
**PLAN**



**ANCHOR PLATE (for welded rail)**



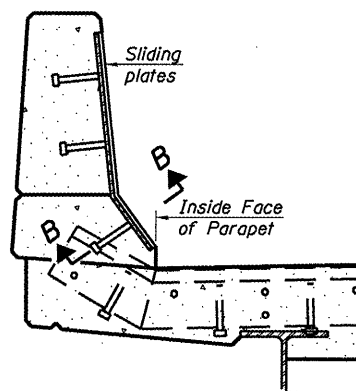
**AT PARAPET**



**AT SIDEWALK OR MEDIAN**

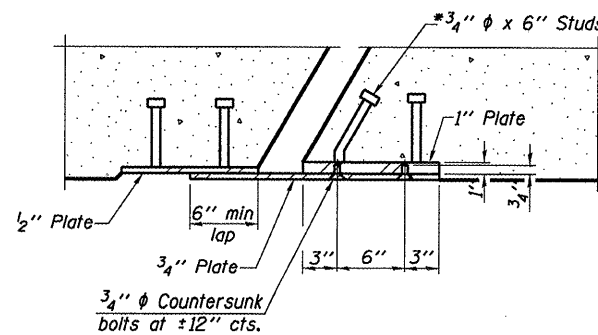
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

**TYPICAL END TREATMENTS**



**SECTION A-A**

**POINT BLOCK DETAILS (for skews > 30°)**



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	134

**PREFORMED JOINT STRIP SEAL STRUCTURE NO. 050-0089**

EJ-SSJ 10-1-08

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -
ct:\pw\work\PWIDOT\WOODSHANKR1\dms91658	D366935-details.dgn	DRAWN - RON WOODSHANK	REVISED -
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Apr 07, 2009 - 07:53:42 AM	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION

**PREFORMED JOINT STRIP SEAL**

SCALE: SHEET NO. 18 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4)I	LASALLE	25	25
			CONTRACT NO. 66935	
ILLINOIS				