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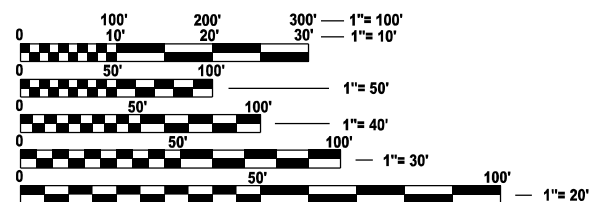
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- 5. TYPICAL SECTION
- 6. EXISTING CONCRETE BARRIER, FOR INFORMATION ONLY
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- 701901-09 TRAFFIC CONTROL DEVICES

PROJECT LOCATION

STRUCTURE NO. 032-0099
NORTH APPROACH, SOUTHBOUND LANES
CARRYING F.A.P. ROUTE 326 (IL 47)
OVER THE ILLINOIS RIVER
1.2 MILES SOUTH OF US ROUTE 6
IN MORRIS



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: YOGESH PATEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT NO. 3 (815) 434-6131
CONTRACT NO. 66N50



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

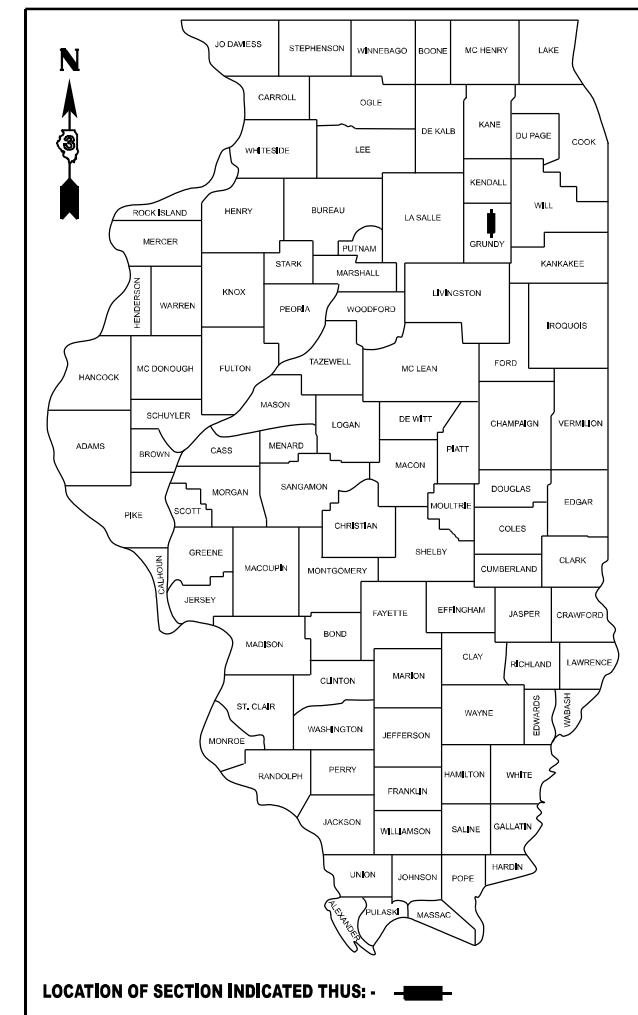
PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 326 (IL 47)
SECTION (111BR-1)RCS
APPROACH SLAB RAISING
GRUNDY COUNTY

C-93-086-23

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	1
		ILLINOIS	CONTRACT NO. 66N50	

D-93-066-23



FUNCTIONAL CLASSIFICATION

OTHER PRINCIPLE ARTERIAL
 F.A.P. ROUTE 326 (IL 47)
 2021 ADT = 18800
 P.V. 87.2 % S.U. 2.9 % M.U. 9.9 %

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED February 06, 2024
Stephen M. Travis REGIONAL ENGINEER

March 22, 2024
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

March 22, 2024
Stephen M. Travis
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY.

COMMITMENTS

NONE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

**START & END DATES
OF CONSTRUCTION:**

INSPECTORS:

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PLOT DATE = 1/9/2024	DATE - 7/5/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	2
CONTRACT NO. 66N50				
ILLINOIS		FED. AID PROJECT		

CONSTRUCTION CODE
CONTRACT MAINTENANCE
100% STATE
ROADWAY
0047
S.N. 032-0099

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20400800	FURNISHED EXCAVATION	CU YD	4	4
25000210	SEEDING, CLASS 2A	ACRE	0.01	0.01
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1	1
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1	1
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1	1
25100630	EROSION CONTROL BLANKET	SQ YD	40	40
25200110	SODDING, SALT TOLERANT	SQ YD	40	40
50102400	CONCRETE REMOVAL	CU YD	0.32	0.32
50300255	CONCRETE SUPERSTRUCTURE	CU YD	0.32	0.32
59000200	EPOXY CRACK INJECTION	FOOT	100	100
67100100	MOBILIZATION	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701636	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701731	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	15	15

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PLOT DATE = 1/9/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	3
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION CODE
CONTRACT MAINTENANCE
100% STATE
ROADWAY
0047
S.N. 032-0099

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
X0326223	FOAM, EXPANDING POLYURETHANE, HIGH-DENSITY	POUND	1080	1080
X5091755	PARAPET RAILING (SPECIAL)	FOOT	42	42

*SPECIALITY ITEMS

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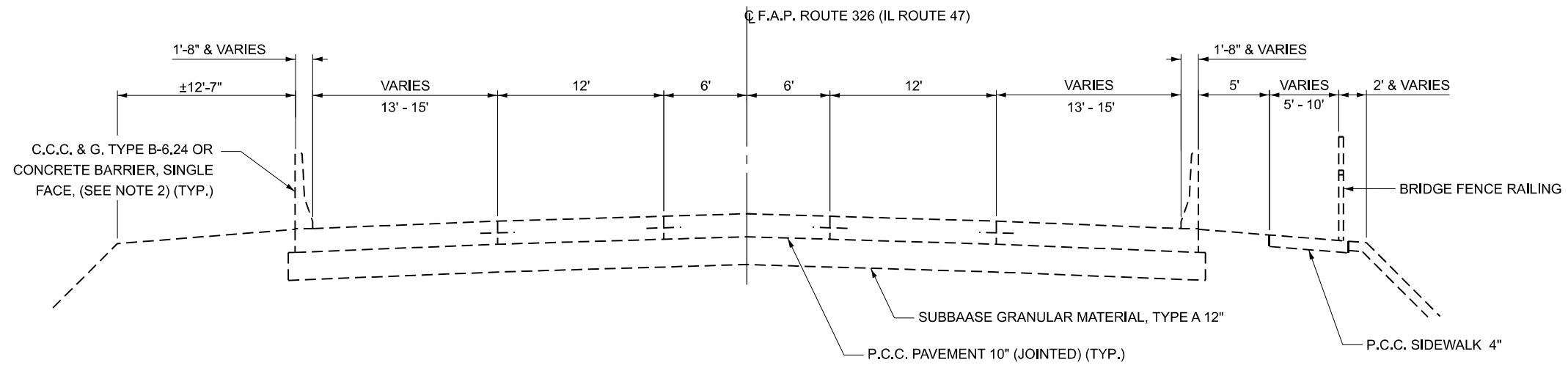
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	4
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. STATION IF REFERENCED TO MATCH EXISTING ROADWAY.
 2. END BRIDGE PARAPET AND BEGIN CONCRETE BARRIER AT STA. 27+285.350. TRANSITION CONCRETE BARRIER TO TYPE B-15.60 CURB & GUTTER FROM STA. 27+298.490 TO STA. 27+307.659 ON WEST SIDE

PROPOSED IL ROUTE 47
STA 27+276.350 - STA 27+305.659

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PLOT DATE = 1/9/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

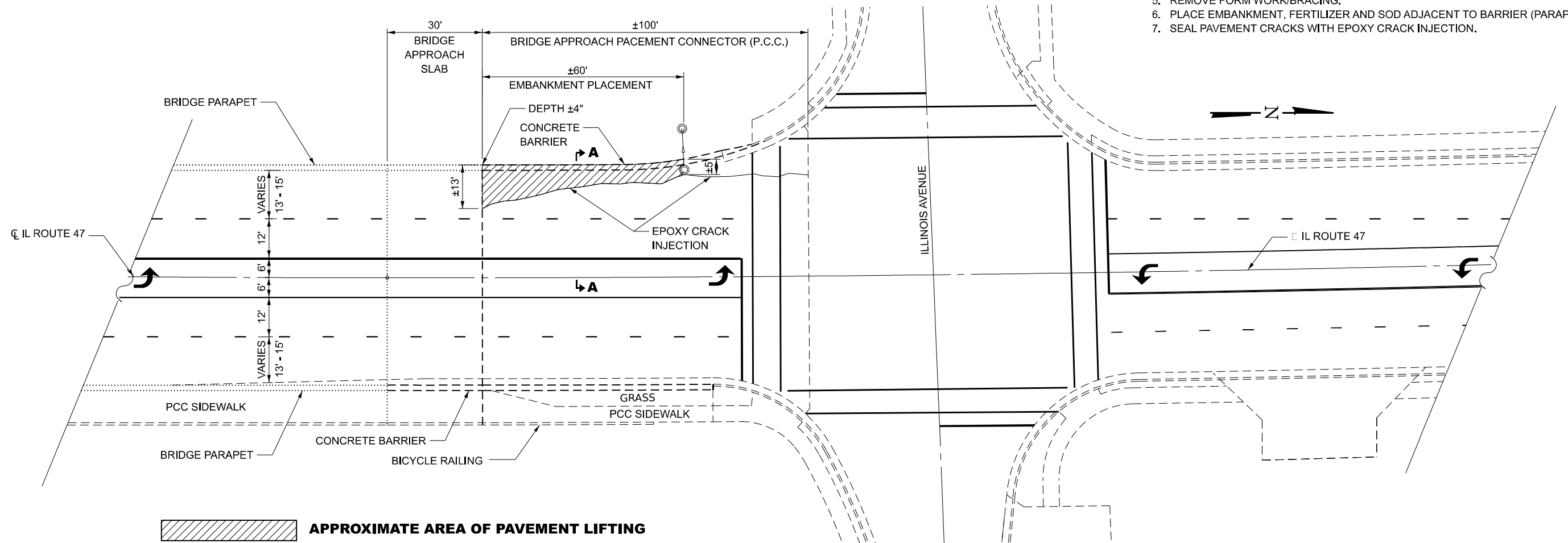
TYPICAL SECTION

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

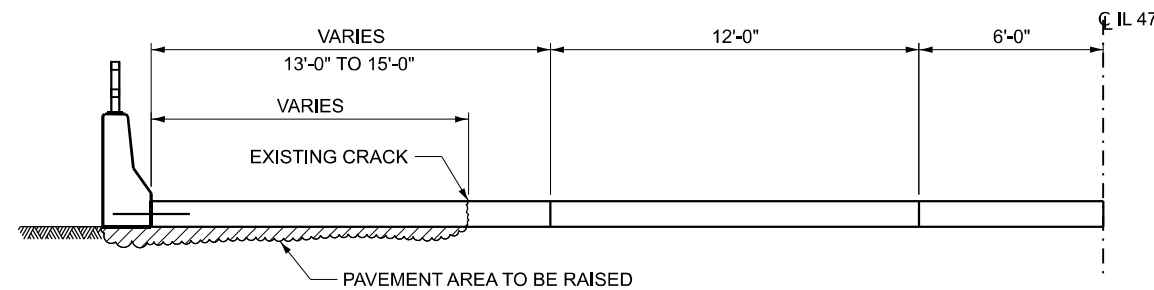
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326	(111BR-1)RCS	GRUNDY	9	5
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATIONS

1. REPAIR EXISTING CONCRETE BARRIER (PARAPET) WALL(S).
2. CLEAN EXISTING PAVEMENT CRACKS (HINGE POINTS).
3. INSTALL NECESSARY FORM WORK/BRACING TO RAISE THE PAVEMENT/BARRIER.
4. RAISE EXISTING BRIDGE APPROACH SLAB, PAVEMENT CONNECTOR FOR BRIDGE APPROACH SLAB AND CONCRETE BARRIER (PARAPET) WALL(S). THE PAVEMENT AND BARRIER WALL(S) SHALL BE RAISED CONCURRENTLY.
5. REMOVE FORM WORK/BRACING.
6. PLACE EMBANKMENT, FERTILIZER AND SOD ADJACENT TO BARRIER (PARAPET) WALL.
7. SEAL PAVEMENT CRACKS WITH EPOXY CRACK INJECTION.



PLAN



SECTION A-A

NOTES

1. THE EXISTING P.C.C. PAVEMENT AND CONCRETE BARRIER WALL SHALL BE RAISED CONCURRENTLY. THE CONTRACTOR SHALL FURNISH AND INSTALL PREVENTATIVE MEASURES TO STABILIZE THE BARRIER WALL DURING LIFTING OPERATIONS SO THAT THE WALL DOES NOT TILT, LEAN OUT OF PLUMB. ALL PREVENTATIVE MEASURES TO STABILIZE THE BARRIER WALL PRIOR TO LIFTING THE PAVEMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. COST FOR THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE RELATED CONSTRUCTION WORK.
2. THE RESIDENT ENGINEER/TECHNICIAN SHALL PROVIDE "AS-BUILT" PLANS SHOWING LOCATIONS OF ACTUAL INJECTION HOLE LOCATION WHEN RAISING OPERATIONS HAVE BEEN COMPLETED.

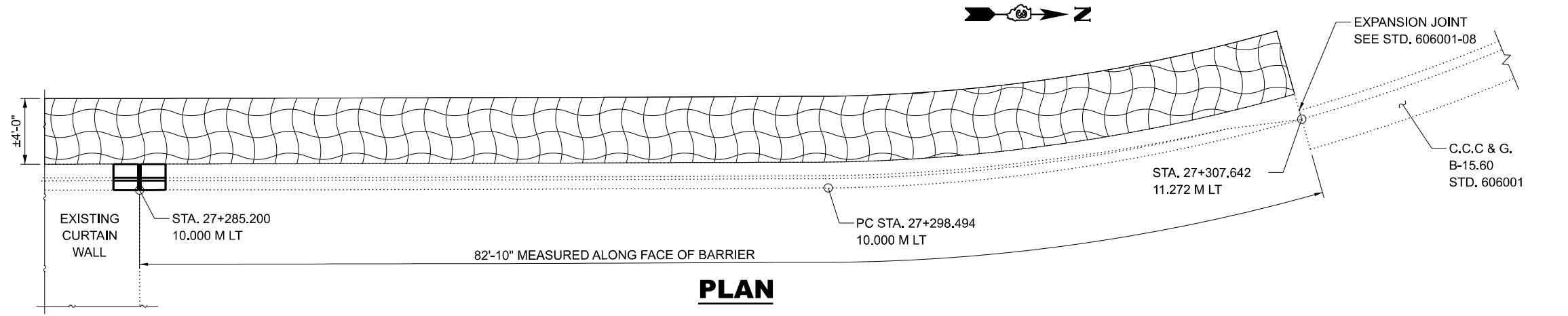
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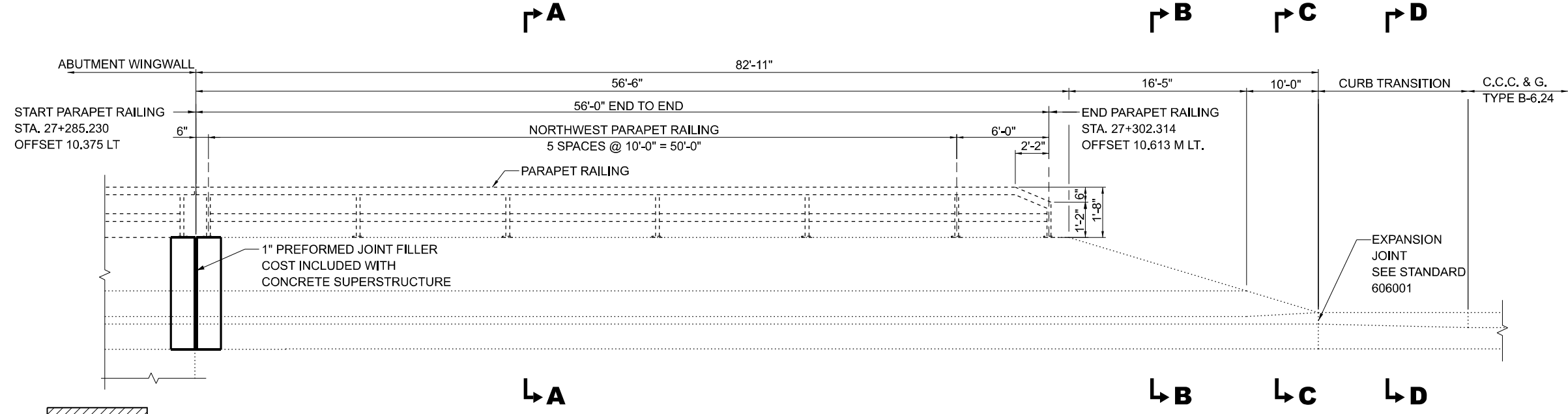
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET 1 OF 1 SHEETS		STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	6
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				



PLAN

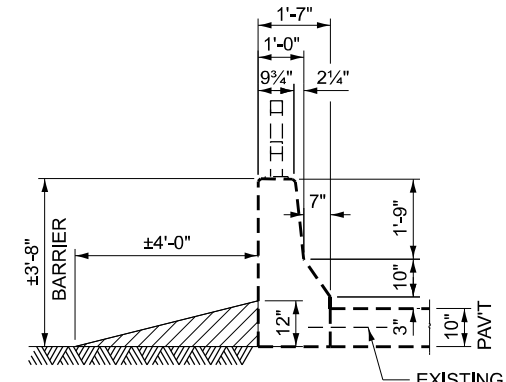


INSIDE ELEVATION

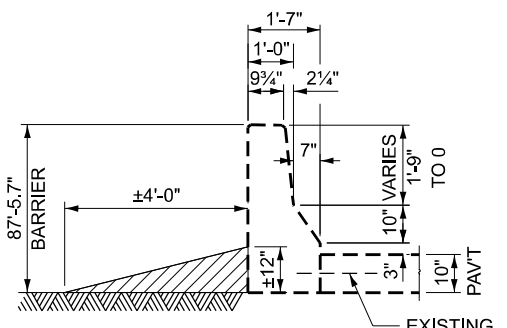
LOOKING WEST
(ALL MEASUREMENTS ARE ALONG FACE OF BARRIER)

NOTE: ALL DIMENSIONS ARE IN ENGLISH UNITS
STATION IS IN METRIC UNITS

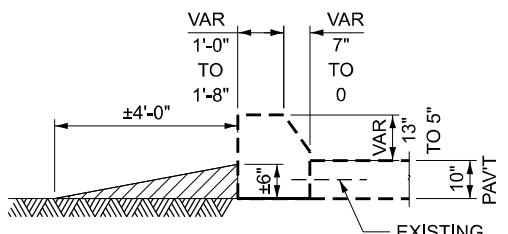
DESIGN STRESSES:
CONCRETE, F'C = 24 MPA
REINFORCEMENT, F_y = 400 MPA



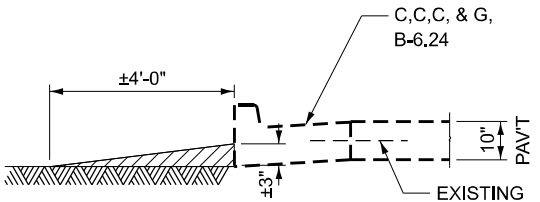
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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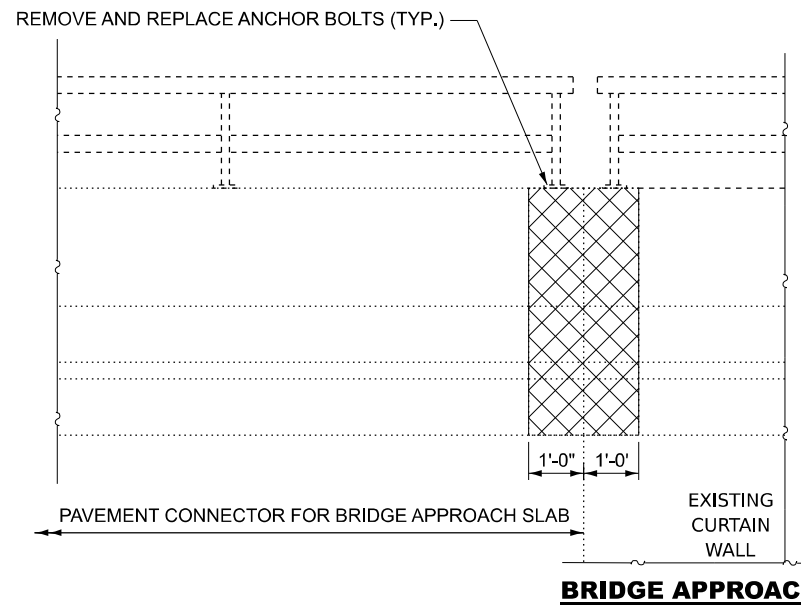
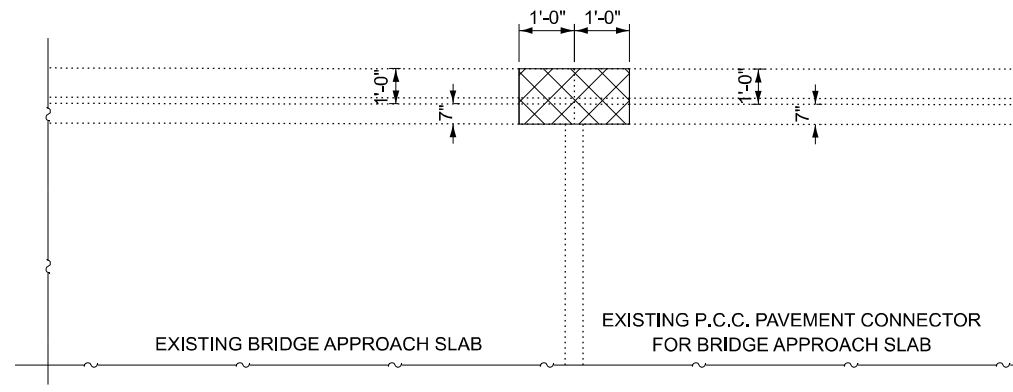
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER WALL REPAIR

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	7
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				

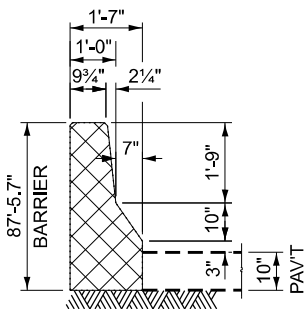


NOTE
A 3/4" DEEP SAW CUT SHALL BE MADE ON THE BOUNDARIES OF THE REMOVAL AREA ON THE INSIDE AND OUTSIDE FACE OF THE WALL.

OUTSIDE ELEVATION

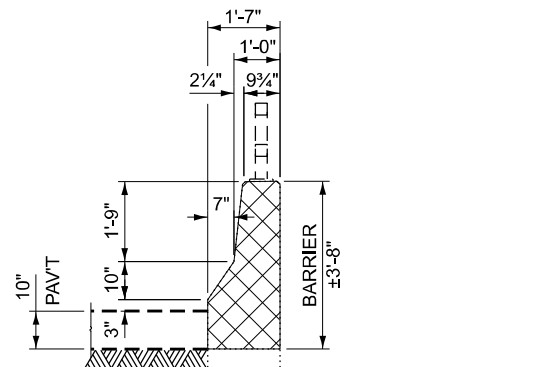
LOOKING EAST

CONCRETE REMOVAL



SECTION THRU PARAPET

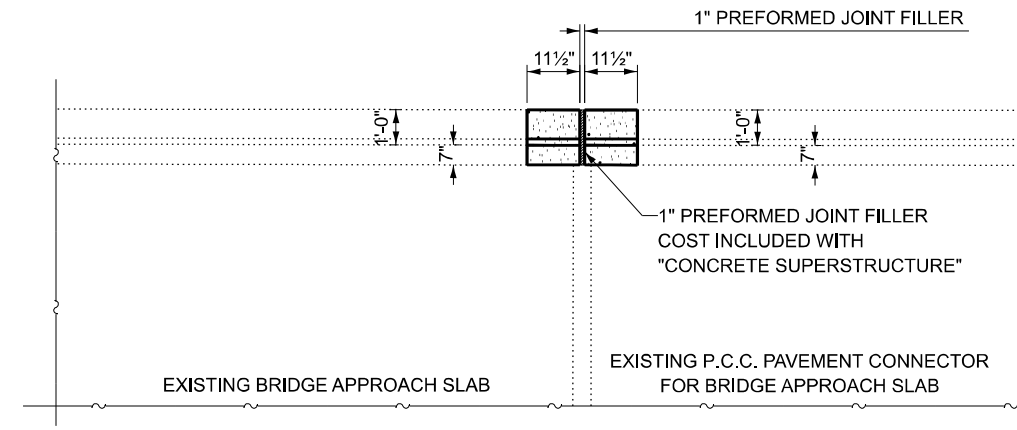
PAVEMENT CONNECTOR
LOOKING NORTH



SECTION THRU PARAPET

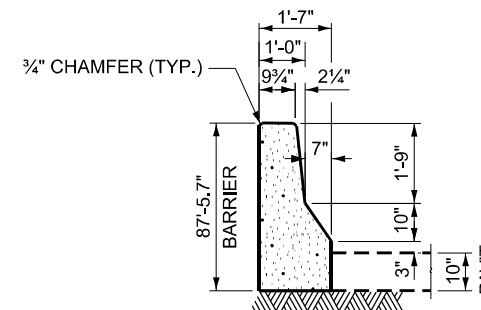
BRIDGE APPROACH
LOOKING SOUTH

EXISTING



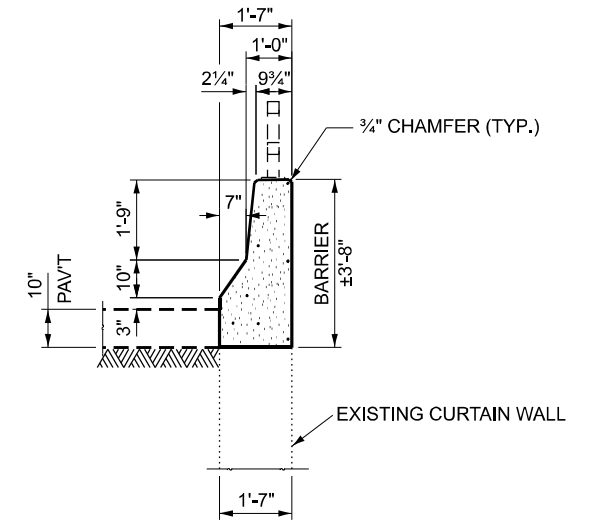
PLAN

CONCRETE SUPERSTRUCTURE



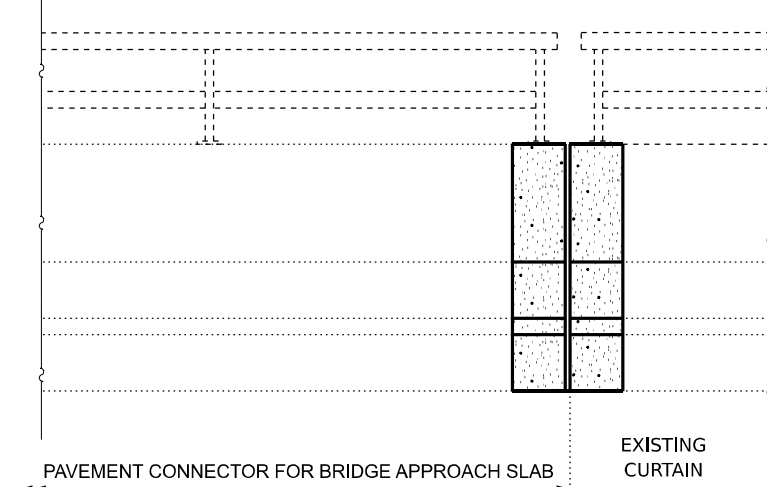
NORTH SIDE OF JOINT

LOOKING NORTH



SOUTH SIDE OF JOINT

LOOKING SOUTH



OUTSIDE ELEVATION

LOOKING EAST

PROPOSED

NOTES

1. RECONSTRUCTION OF THE BARRIER WALL SHALL BE COMPLETED PRIOR TO ATTEMPTING TO LIFT THE EXISTING PAVEMENT AND WALL.
2. EXISTING HORIZONTAL REINFORCEMENT SHALL BE CUT, WHEN NECESSARY TO PROVIDE A MIN. OF 1/2" GAP BETWEEN THE END OF THE BAR AND THE FACE OF CONCRETE. IF THE BARS ARE CUT, THEY SHALL BE REPAINTED WITH AN APPROVED EPOXY COATING.
3. EXISTING VERTICAL REINFORCEMENT BARS EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.

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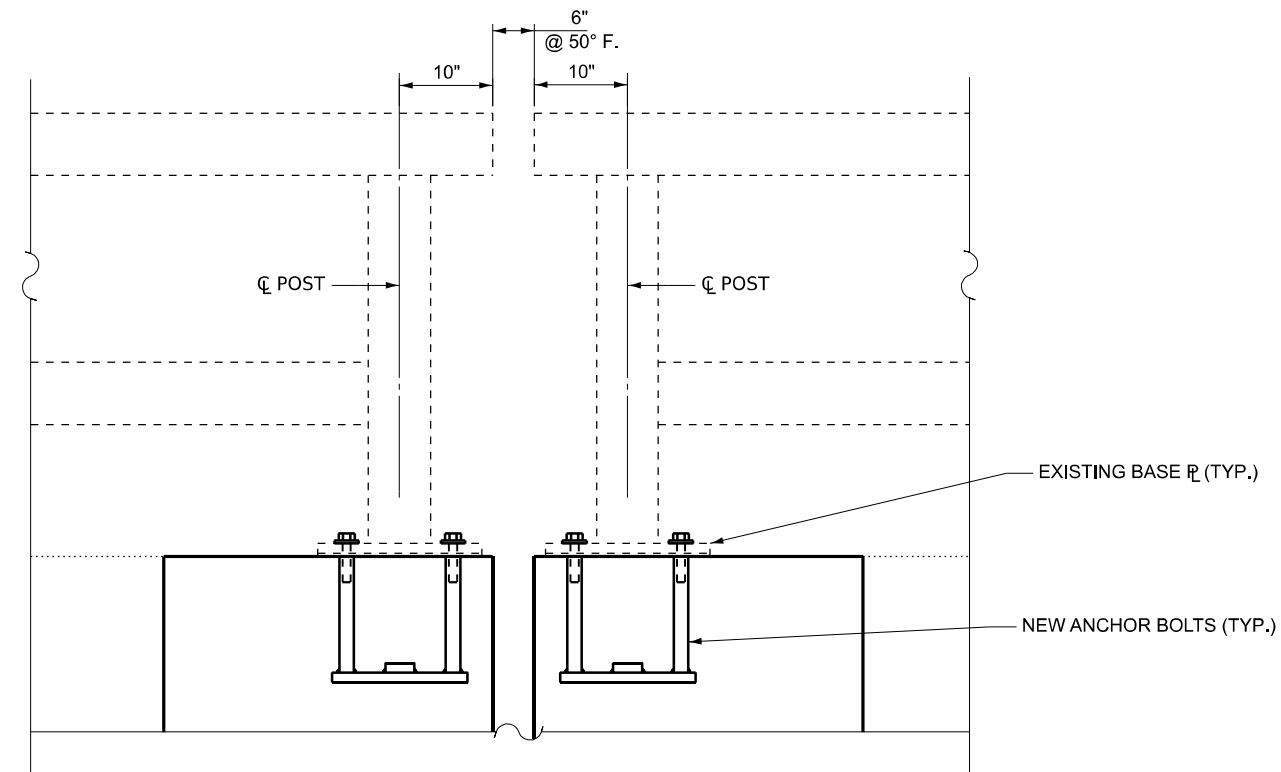
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

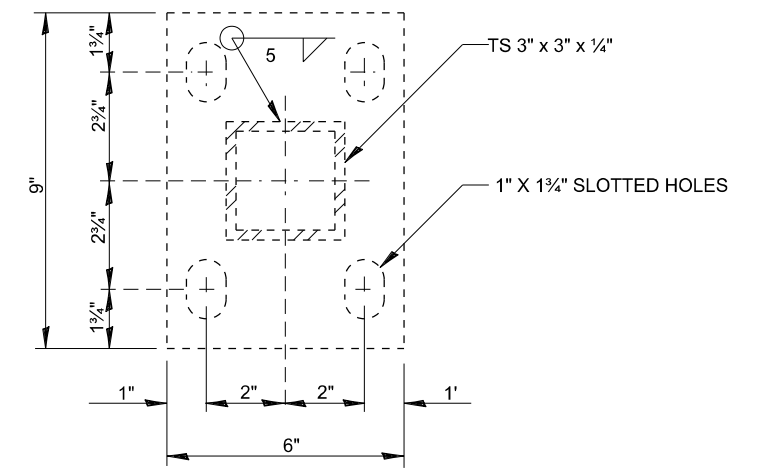
CONCRETE BARRIER WALL REPAIR

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

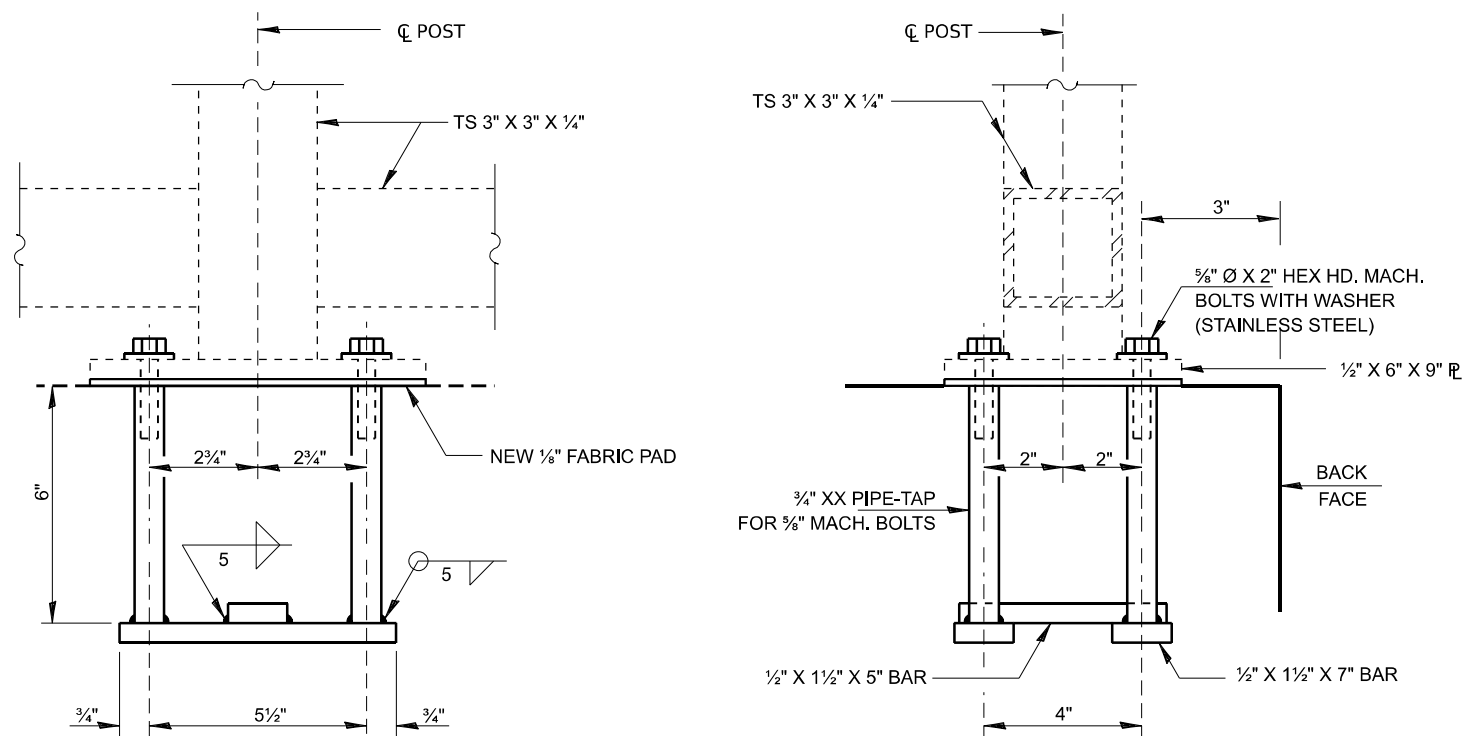
F.A.P. RTE. 326	SECTION (111BR-1)RCS	COUNTY GRUNDY	TOTAL SHEETS 9	SHEET NO. 8
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				



**EXISTING PARAPET RAILING
ELEVATION AT EXPANSION JOINT**



EXISTING BASE PLATE



ANCHOR BOLT DETAILS

(IN LIEU OF THE CAST-IN-PLACE ANCHOR DEVICE SHOWN, THE CONTRACTOR HAS THE OPTION OF DRILLING AND EPOXY GROUTING M16 ANCHOR RODS FOR THE CONNECTIONS ON TOP OF THE PARAPETS. EMBEDMENT SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.)

NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF THE EXISTING RAILING, BASE PLATES, AND ANCHOR DEVICES PRIOR TO ORDERING NEW ANCHOR DEVICES.
- RAILING SHALL BE ACCORDING TO APPLICABLE PORTIONS OF SECTION 509 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED.
- STEEL SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270M GRADE 250.
- IF THE OPTION OF DRILLING AND EPOXY GROUTING THE ANCHOR RODS IS CHOSEN FOR THE RE-ERECTING OF THE PARAPET RAILING, THE CONTRACTOR SHALL USE THE CAPSULE OR THE ADHESIVE CARTRIDGE TYPE ANCHOR RODS THAT HAVE BEEN PREVIOUSLY TESTED AND GIVEN PRIOR APPROVAL BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL THESE ANCHOR RODS IN PRE-DRILLED HOLES ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES. THE CAPSULE OF THE ADHESIVE CARTRIDGE SHALL BE SEALED WITH PREMEASURED AMOUNTS OF THE ADHESIVE CHEMICAL.
- NEW ANCHOR DEVICES AND PLATES SHALL BE GALVANIZED AFTER SHOP FABRICATION ACCORDING TO AASHTO M 111 AND ASTM A 385. ALL NEW BOLTS, NUTS AND WASHERS AND ANCHOR RODS SHALL BE GALVANIZED ACCORDING TO AASHTO M 232 EXCEPT STAINLESS STEEL BOLTS AS NOTED.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE BARRIER WALL REPAIR
(ANCHOR BOLT REPLACEMENT)**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(111BR-1)RCS	GRUNDY	9	9
CONTRACT NO. 66N50				
ILLINOIS FED. AID PROJECT				