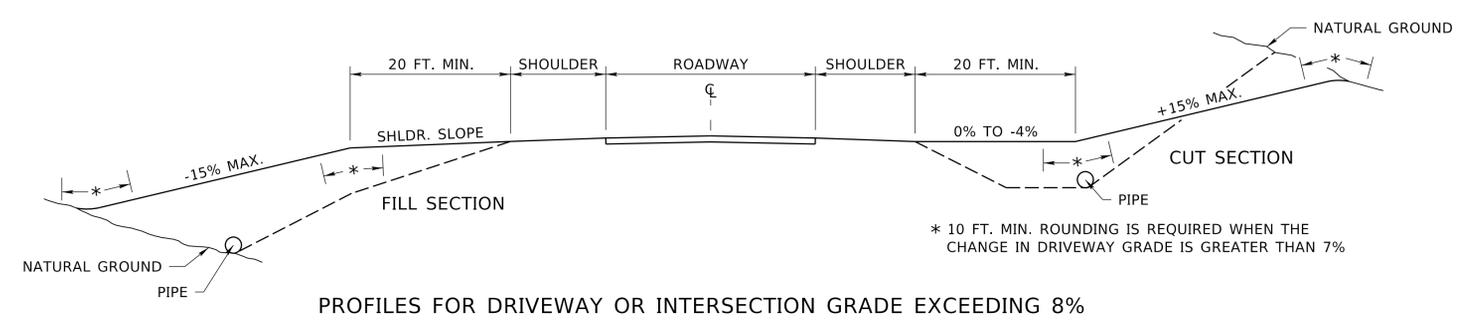


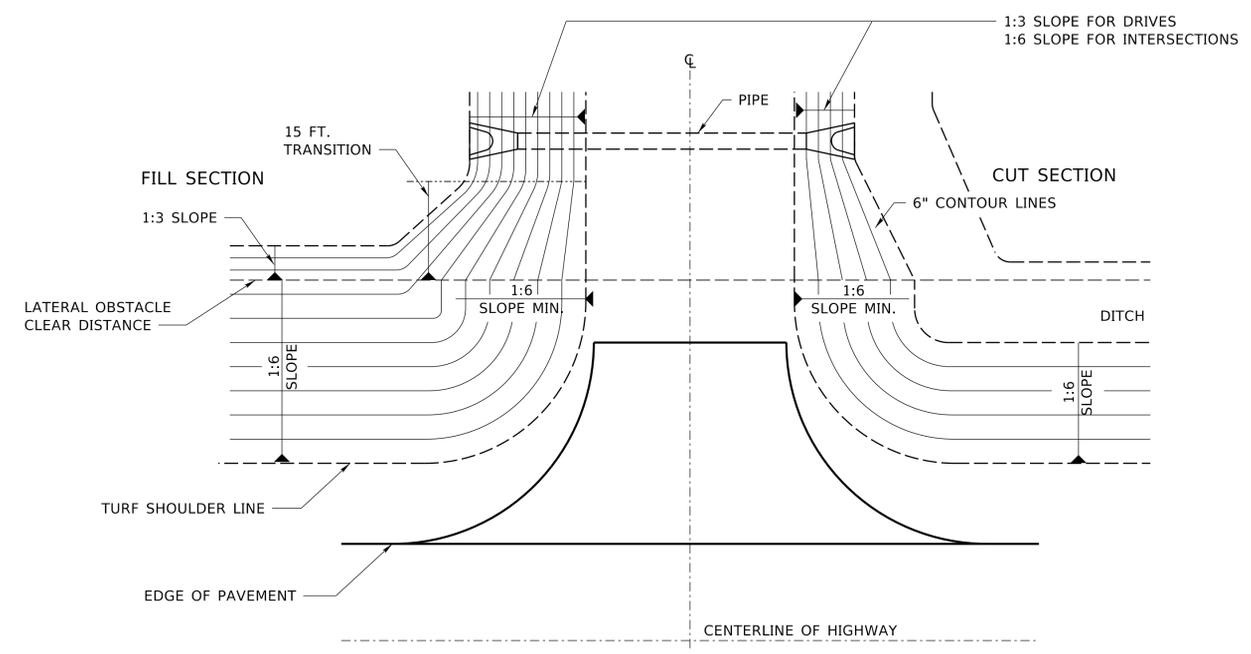
Typical X-Section Table of Contents

May 1, 2026

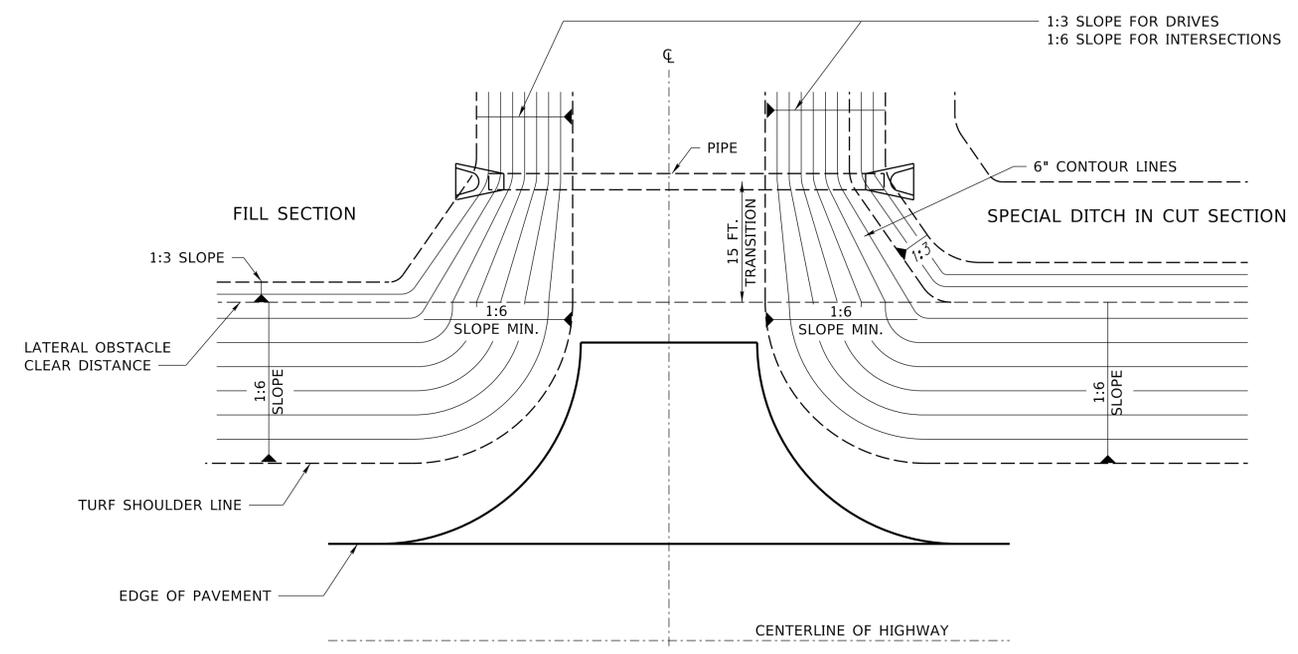
Plan No.	Title	Comments
1100 2 R4	Rural Intersections and Driveways	
1110 2 R0	Typical Cross Sections of Old Road Obliteration	
1700 2 R1	Grading for Guardrail End Treatments	
1702 2 R0	Grading for Terminal Anchorage Section	
1910 2 R0	Details of Maintenance Turnaround with 40' Median	
1911 2 R0	Details of Maintenance Turnaround with 64' Median	
3850 2 R25	Pavement Repair	AUG 2025 - Revision
3851 2 R19	Pavement Repair (Overlay)	AUG 2025 - Revision



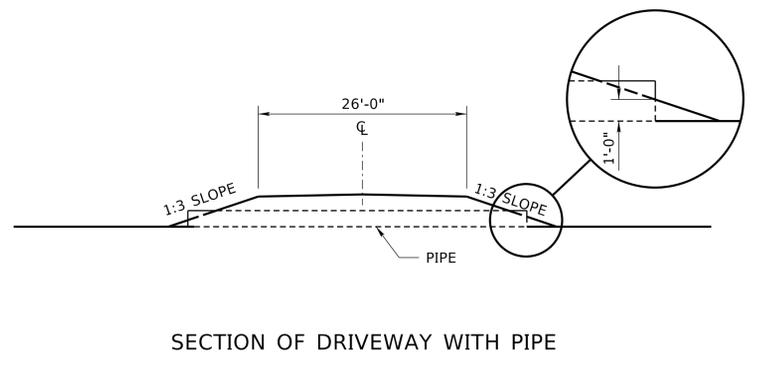
PROFILES FOR DRIVEWAY OR INTERSECTION GRADE EXCEEDING 8%



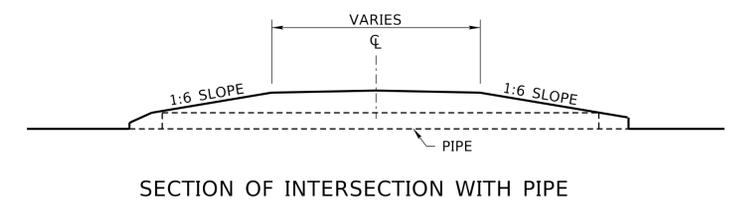
INTERSECTION OR DRIVEWAY WITHOUT SPECIAL DITCH



INTERSECTION OR DRIVEWAY WITH SPECIAL DITCH



SECTION OF DRIVEWAY WITH PIPE



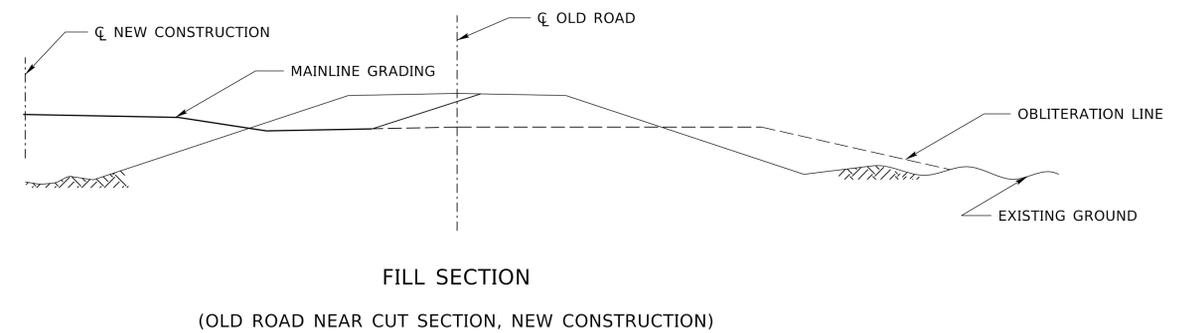
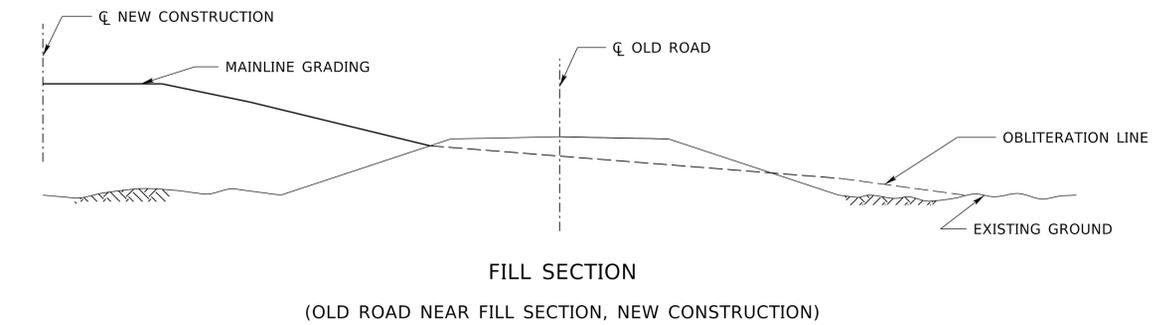
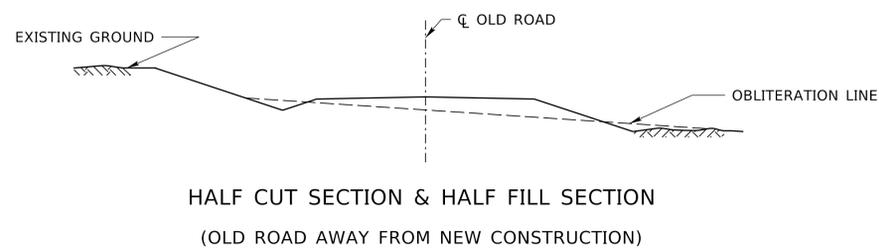
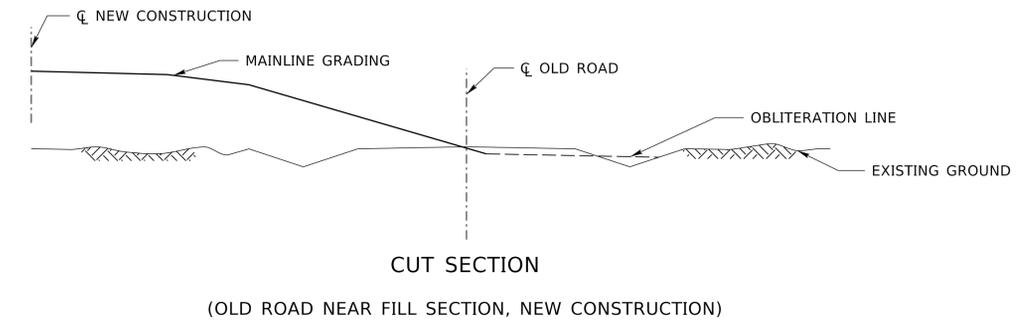
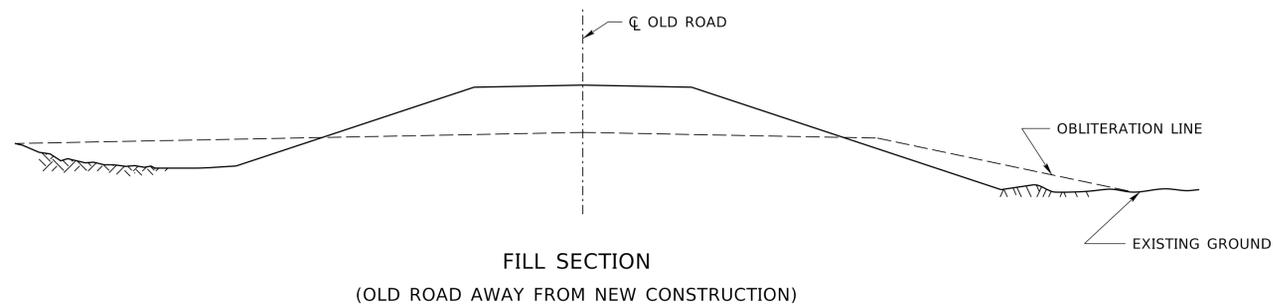
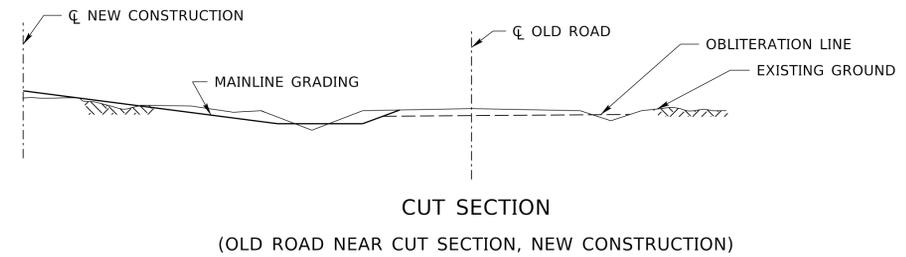
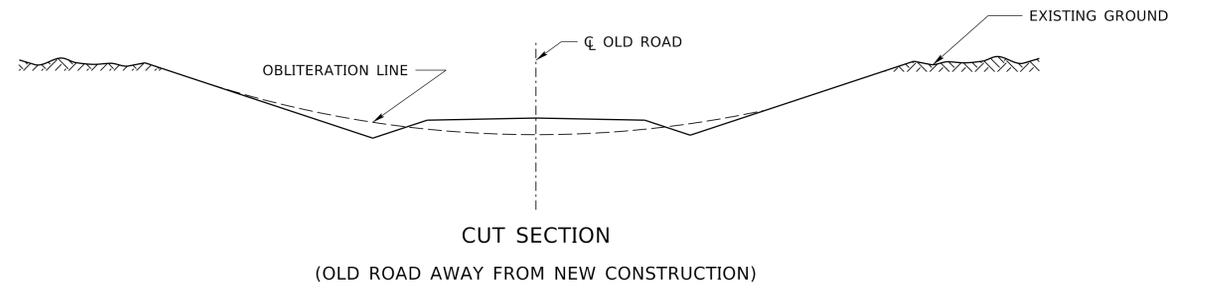
SECTION OF INTERSECTION WITH PIPE

RUAL INTERSECTION & DRIVEWAYS
STANDARD TYPICAL CROSS SECTIONS

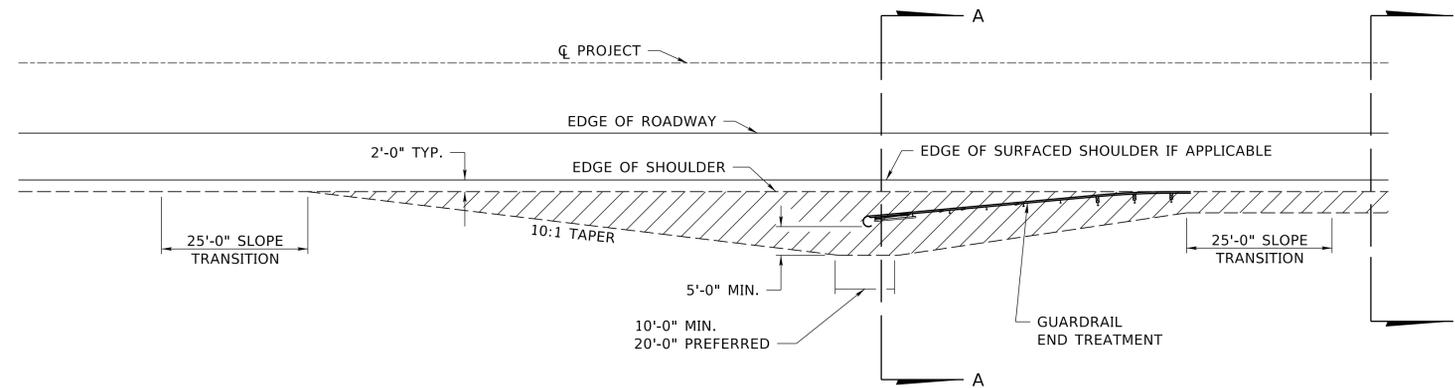
NEBRASKA
Good Life. Great Journey.
DEPARTMENT OF TRANSPORTATION

Roadway Design Division
1500 Nebraska Parkway
Lincoln, NE 68502
Office: 402-479-4601

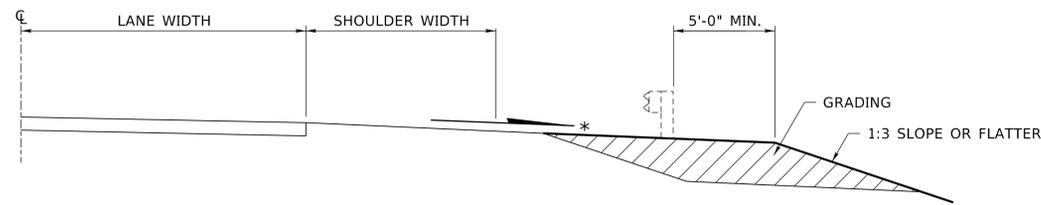
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OLD ROAD OBLITERATION
STANDARD TYPICAL CROSS SECTIONS

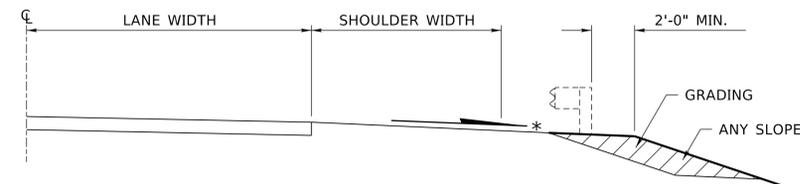


PLAN
GRADING FOR GUARDRAIL END TREATMENTS



SECTION A-A

* EXTENSION OF SHOULDER SLOPE (1:10 MAX.)



SECTION B-B

* EXTENSION OF SHOULDER SLOPE (1:10 MAX.)

GRADING FOR GUARDRAIL END TREATMENTS
STANDARD TYPICAL CROSS SECTIONS

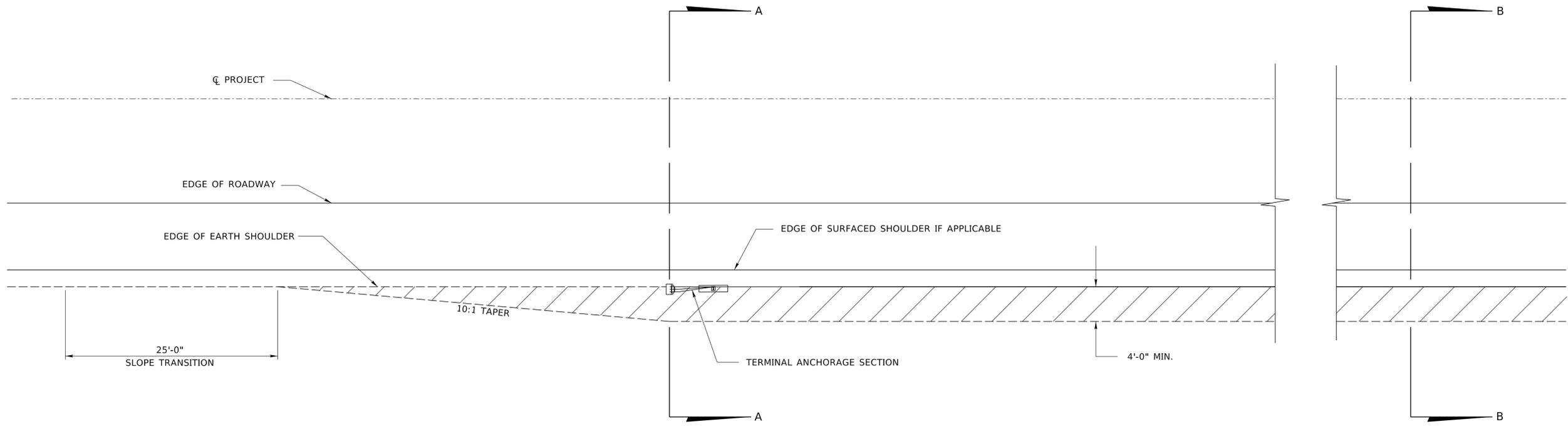
NEBRASKA
Good Life. Great Journey.
DEPARTMENT OF TRANSPORTATION

Roadway Design Division
1500 Nebraska Parkway
Lincoln, NE 68502
Office: 402-479-4601

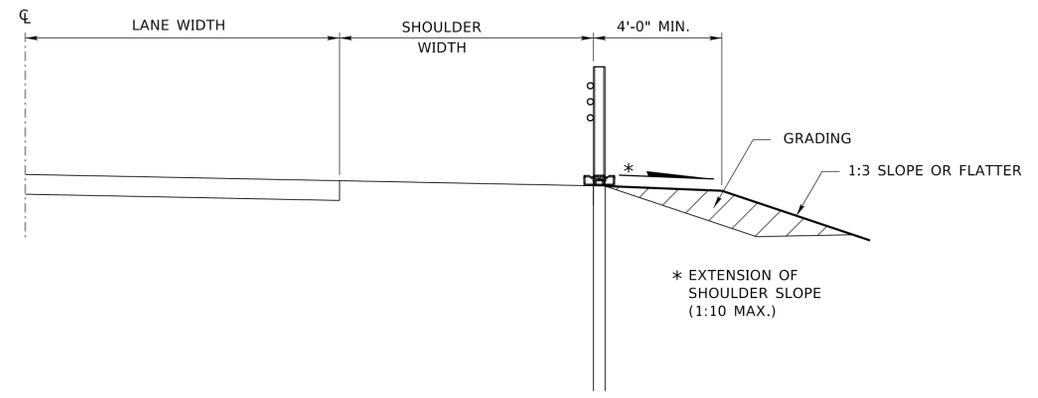
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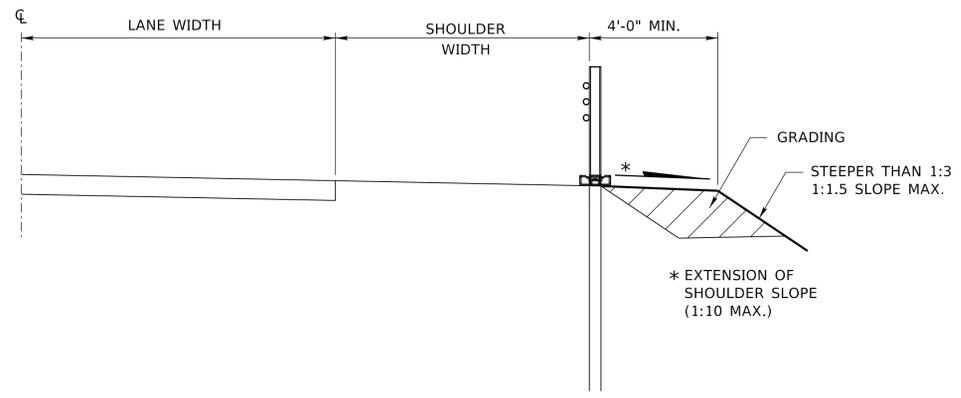
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1 OF 1 1700_2 R1



PLAN



SECTION A-A



SECTION B-B

GRADING FOR TERMINAL ANCHORAGE SECTIONS

GRADING FOR TERMINAL ANCHORAGE SECTIONS
STANDARD TYPICAL CROSS SECTIONS

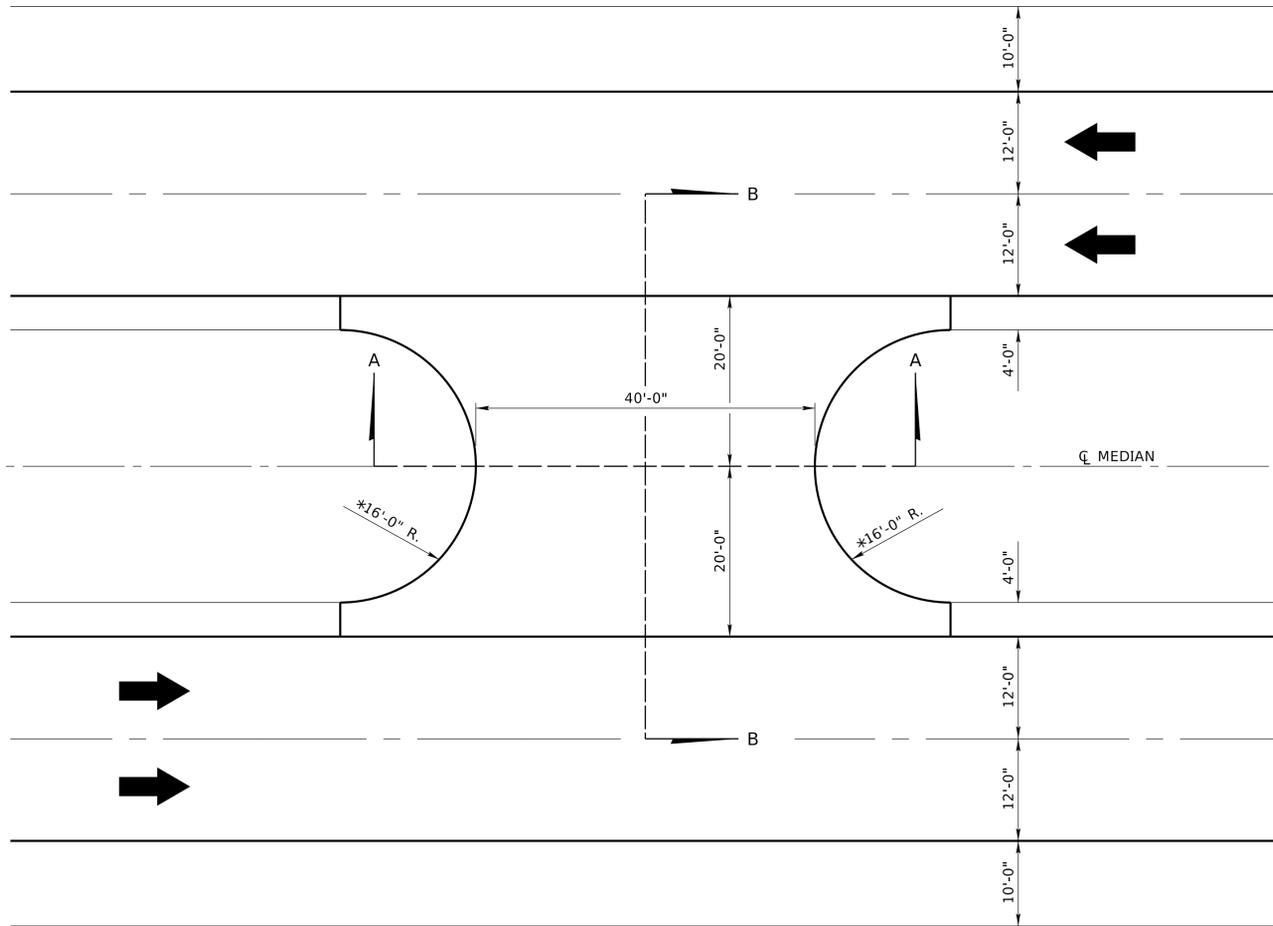


Roadway Design Division

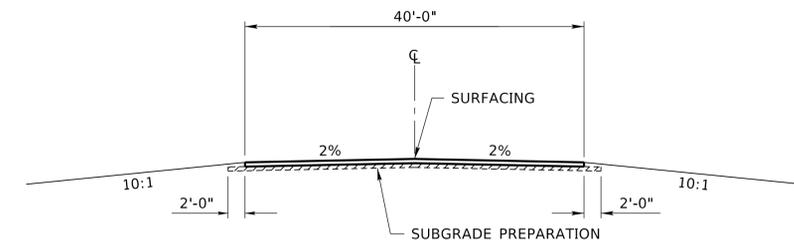
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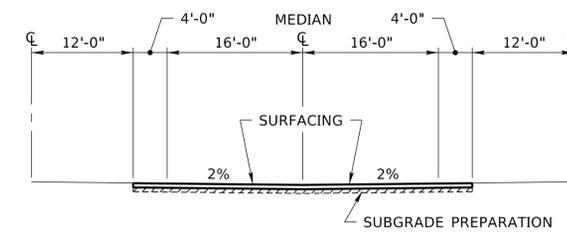
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PLAN



SECTION A-A



SECTION B-B

DETAILS OF MAINTENANCE TURNAROUND
(40'-0" MEDIAN)

* NOTE:
16'-0" RADIUS BASED ON 4'-0" SHOULDER

DETAILS OF MAINTENANCE TURNAROUND WITH 40' MEDIAN
STANDARD TYPICAL CROSS SECTIONS

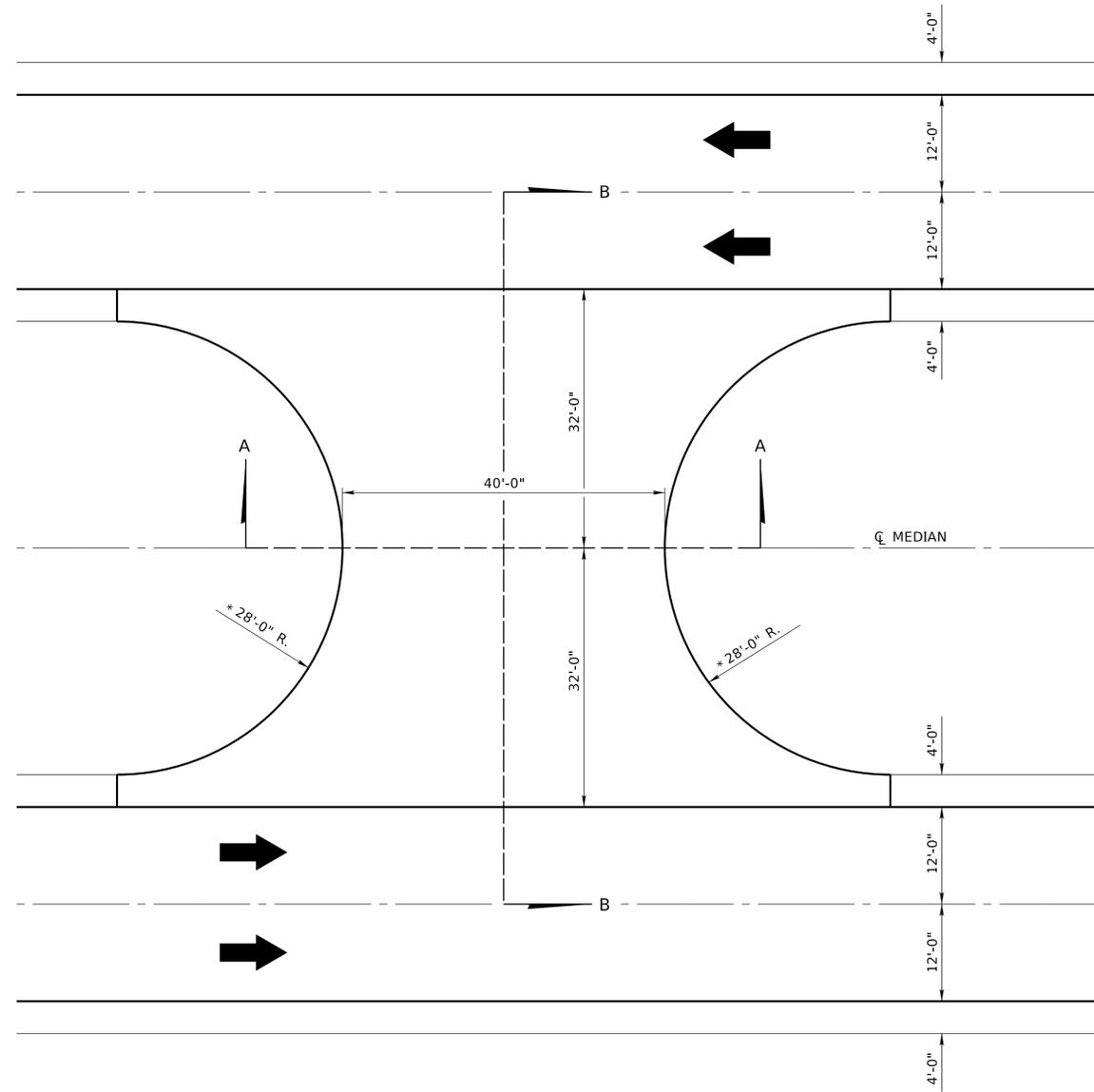


Roadway Design Division
1500 Nebraska Parkway
Lincoln, NE 68502
Office: 402-479-4601

COMPUTER: BG0419M187

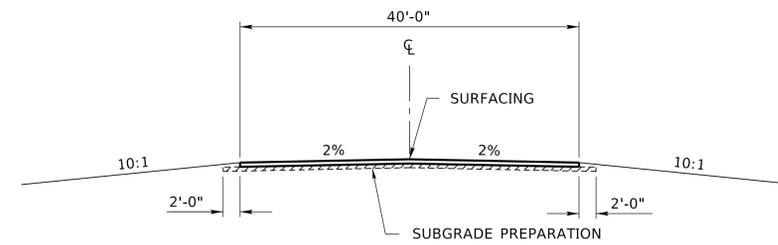
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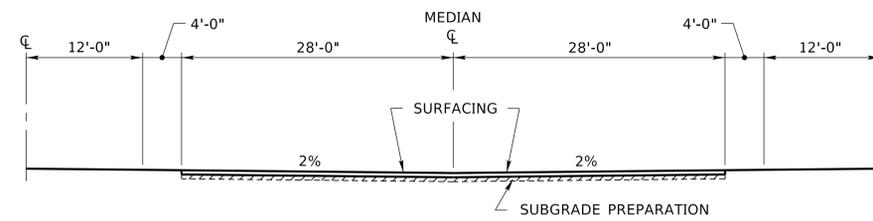


PLAN

DETAILS OF MAINTENANCE TURNAROUND
(64'-0" MEDIAN)

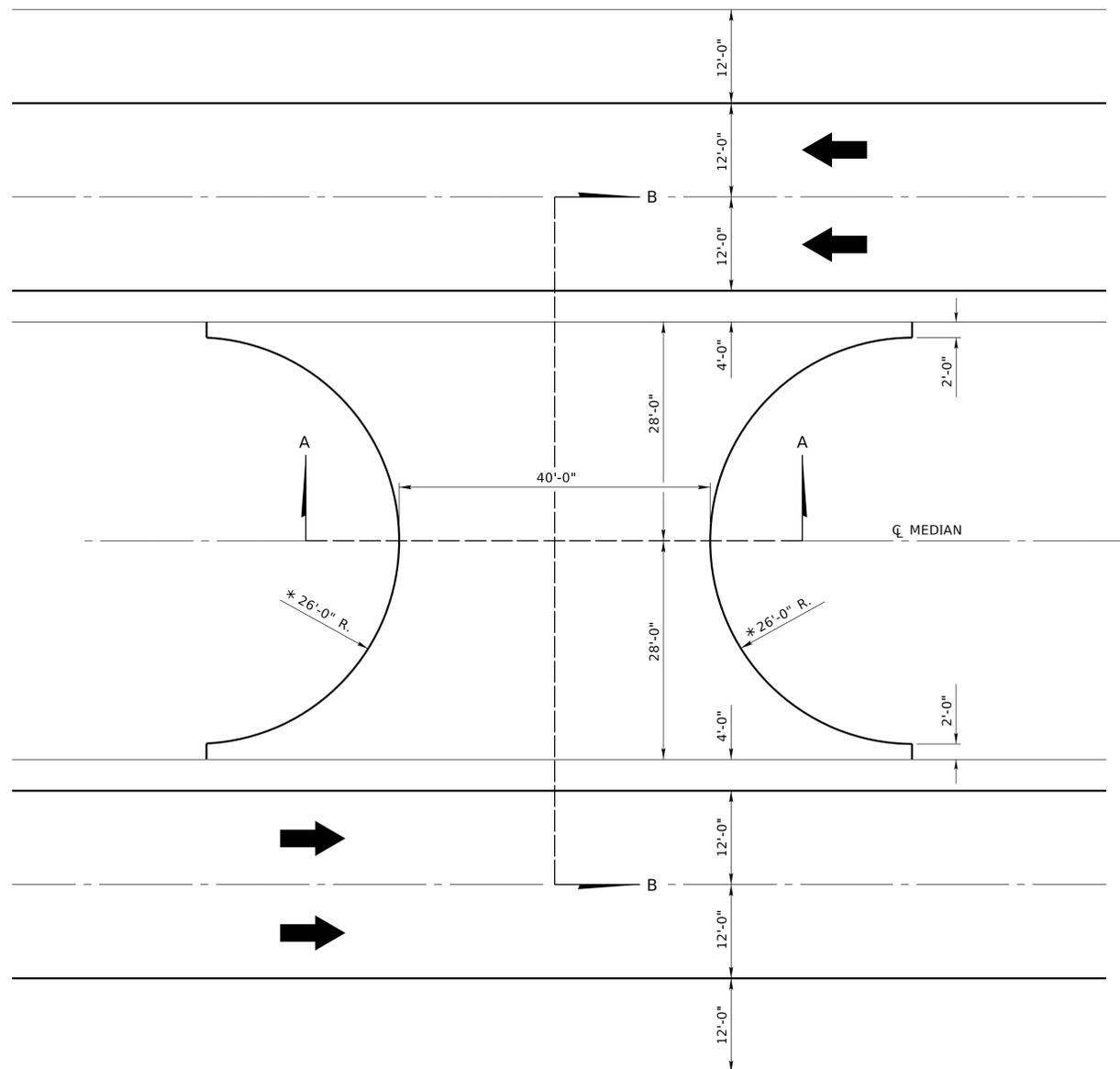


SECTION A-A



SECTION B-B

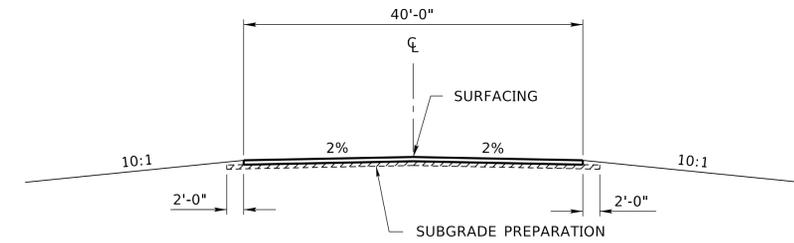
DETAILS OF MAINTENANCE TURNAROUND WITH 64' MEDIAN
STANDARD TYPICAL CROSS SECTIONS



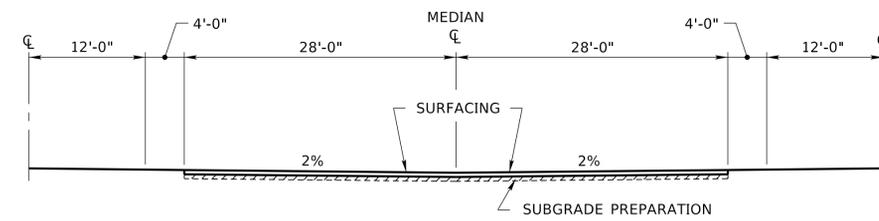
PLAN

DETAILS OF MAINTENANCE TURNAROUND
(64' MEDIAN)

* NOTE: 26'-0" RADIUS BASED ON 4'-0" SHOULDER WITH 2'-0" LUGOUT



SECTION A-A



SECTION B-B

DETAILS OF MAINTENANCE TURNAROUND WITH 64' MEDIAN
STANDARD TYPICAL CROSS SECTIONS

- ① FULL DEPTH DIAMOND SAW CUT.
- ② INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- ③ INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS.
- ④ TIE BARS REQUIRED.

- ⑤ LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT. LONGITUDINAL JOINT MUST BE TOOLED AND SEALED.

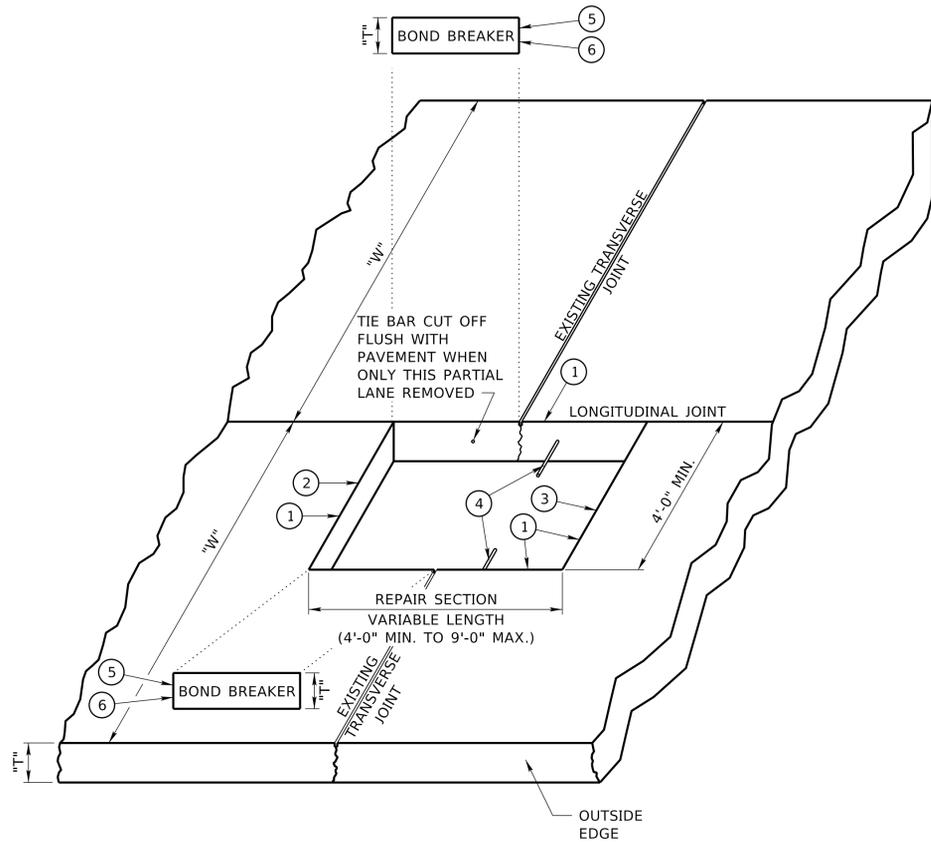
- ⑥ BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED TRANSVERSE JOINT AND THE EXISTING TRANSVERSE JOINT.

NO OVERLAY CONCRETE REPAIR

NOTES:

ALL STEEL DOWEL BARS AND TIE BARS WILL BE EPOXY COATED.

THE EXISTING TRANSVERSE JOINT SHALL NOT BE RE-ESTABLISHED IN THE CONCRETE REPAIR.



CONCRETE PAVEMENT REPAIR, PARTIAL LANE

NOTES:

* THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.

A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.

CONTRACTOR HAS OPTION TO SAW OR TOOL LONGITUDINAL JOINT ON DIAMOND GRINDING PROJECTS.

OR

** IF THE WIDTH OF PANEL ("W") WAS PREVIOUSLY WIDENED, CONSTRUCT A TOOLED LONGITUDINAL JOINT TO MATCH THE LONGITUDINAL JOINTS OF THE ADJOINING PANELS.

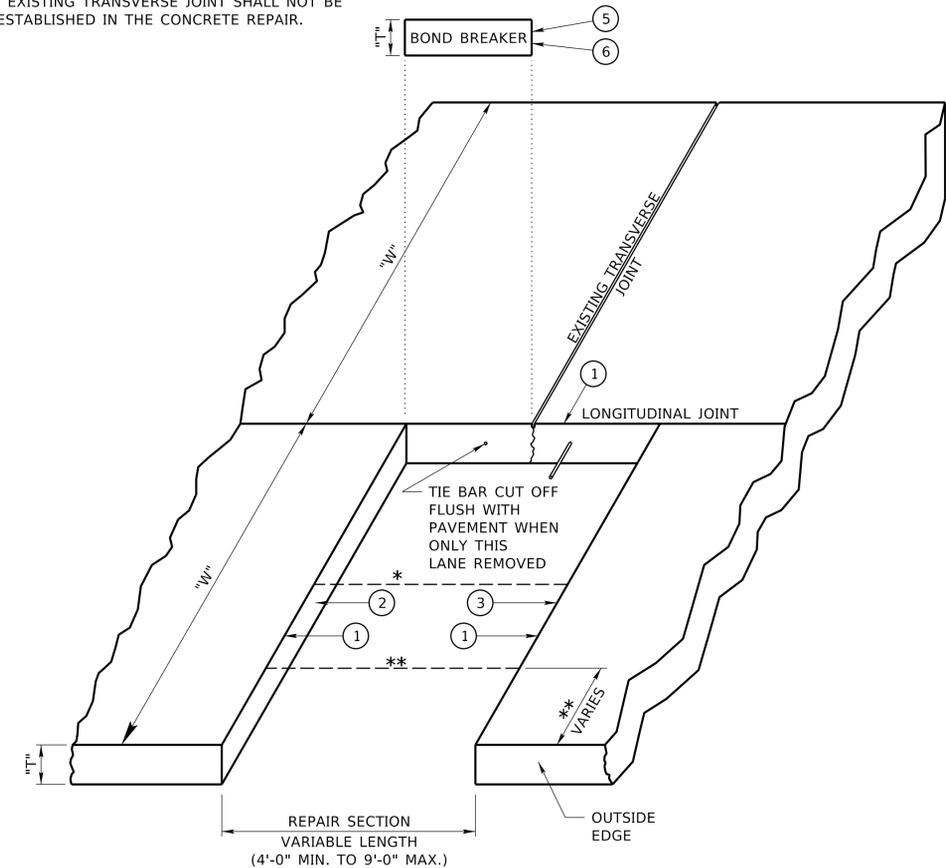
IF THE PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

LEGEND

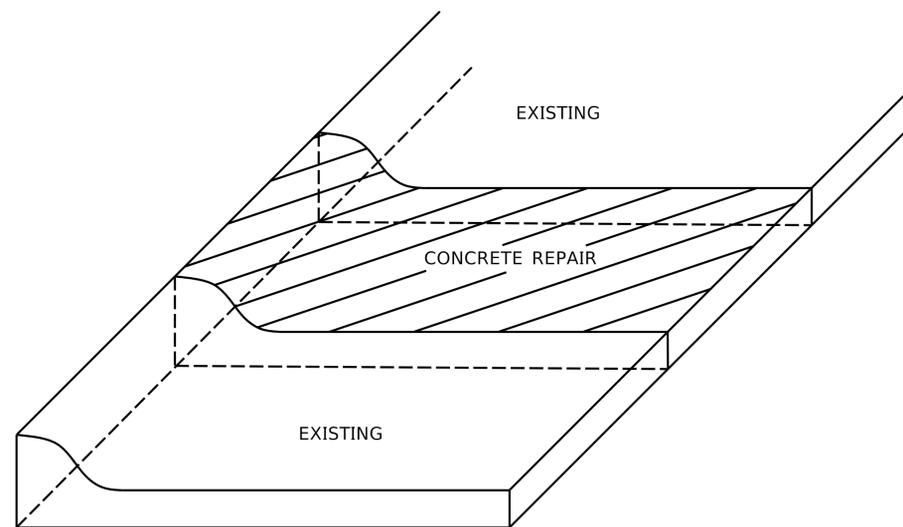
- "W" WIDTH OF PANEL
- "L" LENGTH OF PANEL
- "T" THICKNESS OF CONCRETE

NOTE:

FOR CONCRETE REPAIR LOCATIONS, SEE SHEET C.



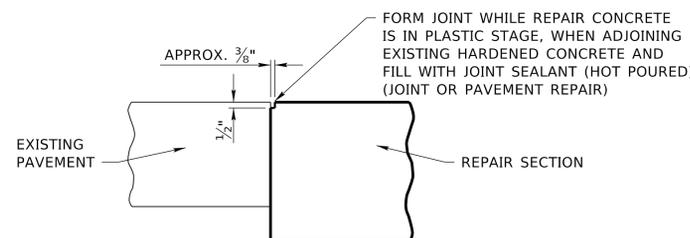
CONCRETE PAVEMENT REPAIR



CONCRETE REPAIR INCLUDING CURB

NOTE:

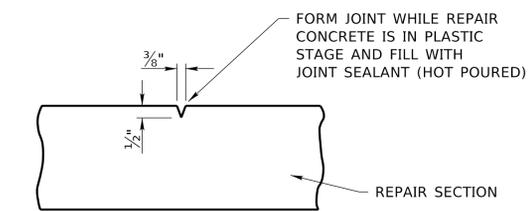
CONSTRUCTION OF THE CURB IS SUBSIDIARY TO THE CONCRETE REPAIR.



FORMED JOINT

NOTE:

FORMED JOINTS NOT REQUIRED ON DIAMOND GRIND PROJECTS.



TOOLED LONGITUDINAL JOINT

NOTE:

CONTRACTOR HAS OPTION TO SAW OR TOOL LONGITUDINAL JOINT ON DIAMOND GRINDING PROJECTS.

PAVEMENT REPAIR
STANDARD TYPICAL CROSS SECTIONS

- ① FULL DEPTH DIAMOND SAW CUT.
- ② INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- ③ INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS. MINIMUM 2-TIE BARS PER SIDE.
- ④ TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.
- ⑤ IN THE CASE OF PANEL REPLACEMENT, DOWEL BARS SHALL BE INSTALLED 2'-0" BEYOND THE EXISTING TRANSVERSE JOINTS. (3-DOWEL BARS PER WHEEL PATH.).
- ⑥ IN THE CASE OF MULTIPLE PANEL REPLACEMENTS, DOWEL BARS SHALL BE INSTALLED AT 12" CENTERS, AS SHOWN IN THE STANDARD PLANS. BASKETS SHALL BE USED ACCORDING TO THE STANDARD SPECIFICATIONS, SUBSECTION 603.03.

- ⑦ LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT. LONGITUDINAL JOINT MUST BE TOOLED AND SEALED.
- ⑧ BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED JOINT AND THE EXISTING TRANSVERSE JOINT.

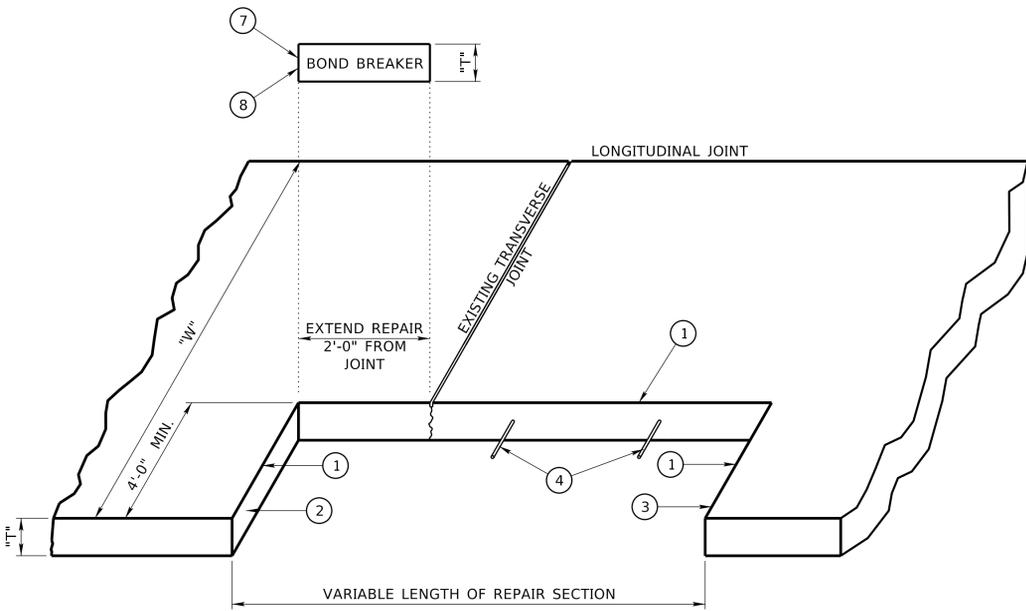
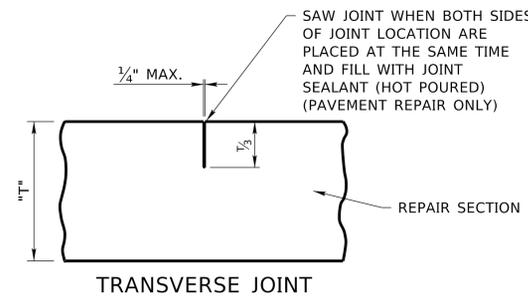


FIGURE B



NOTE:
FORMED JOINTS ARE NOT REQUIRED ON DIAMOND GRINDING PROJECTS.

LEGEND

- "W" WIDTH OF PANEL
- "L" LENGTH OF PANEL
- "T" THICKNESS OF CONCRETE
- ⓔ EXISTING TRANSVERSE JOINT
- Concrete Removal (Partial Lane Width)
- Concrete Removal (Full Lane Width)

NOTES:
THE EXISTING TRANSVERSE JOINT SHALL NOT BE RE-ESTABLISHED IN THE PAVEMENT REPAIR.

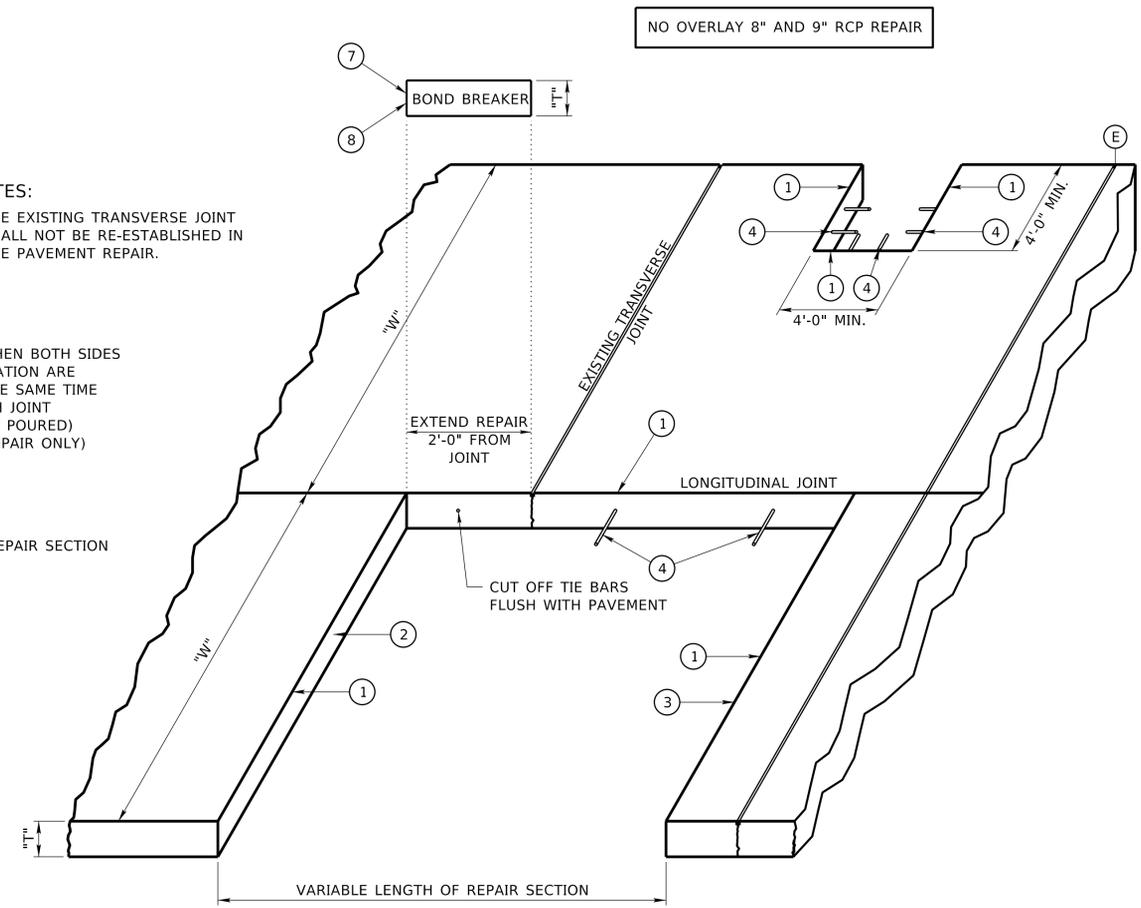
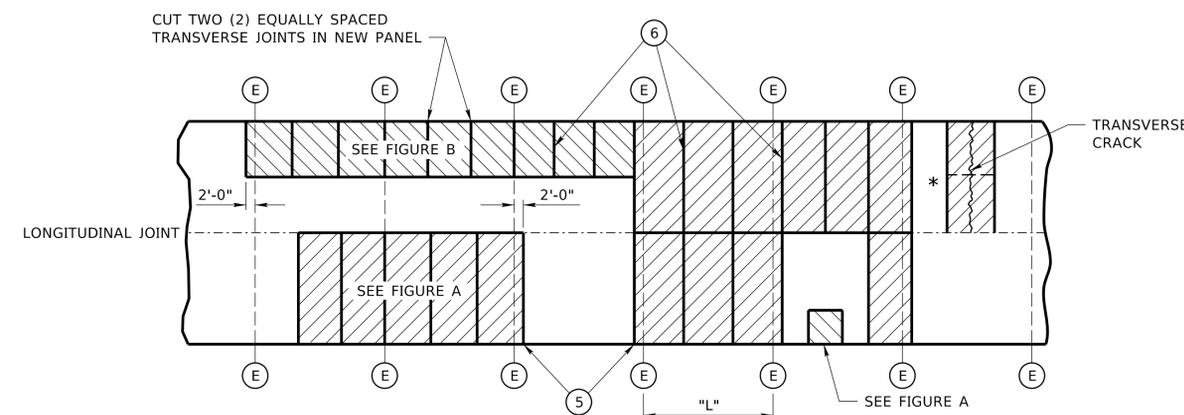
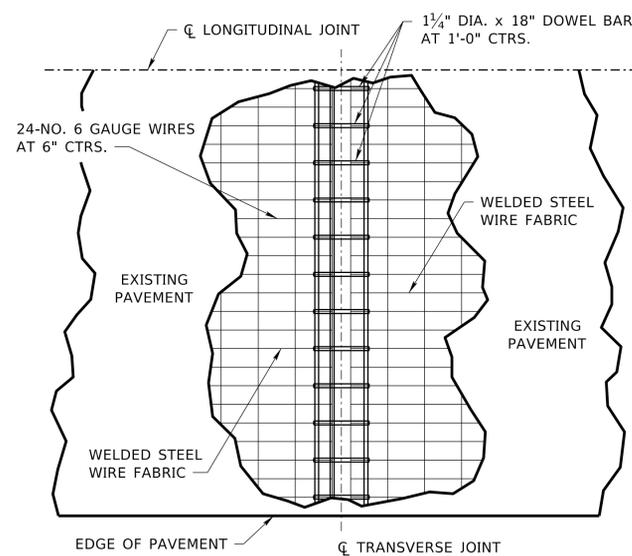


FIGURE A

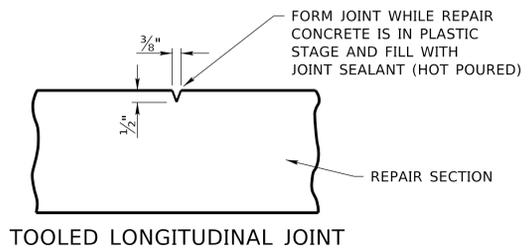


NOTE:
IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

8" AND 9" REINFORCED CONCRETE PAVEMENT REPAIR



EXISTING 8" AND 9" REINFORCED CONCRETE PAVEMENT (RCP)



NOTES:
CONTRACTOR HAS OPTION TO SAW OR TOOL LONGITUDINAL JOINT ON DIAMOND GRINDING PROJECTS.

* THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.

A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.

NOTES:
FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.

- 1 FULL DEPTH DIAMOND SAW CUT.
- 2 INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- 3 INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS. MINIMUM 2-TIE BARS PER SIDE.
- 4 TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.
- 5 IN THE CASE OF PANEL REPLACEMENT, DOWEL BARS SHALL BE INSTALLED 2'-0" BEYOND THE EXISTING TRANSVERSE JOINTS. (3-DOWEL BARS PER WHEEL PATH).
- 6 IN THE CASE OF MULTIPLE PANEL REPLACEMENTS, DOWEL BARS SHALL BE INSTALLED AT 12" CENTERS, AS SHOWN IN THE STANDARD PLANS. BASKETS SHALL BE USED ACCORDING TO THE STANDARD SPECIFICATIONS, SUBSECTION 603.03.
- 7 LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT DEPTH LONGITUDINAL JOINT. LONGITUDINAL JOINT MUST BE TOOLED AND SEALED.
- 8 BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED JOINT AND THE EXISTING TRANSVERSE JOINT.

NO OVERLAY DOWELED CONCRETE PAVEMENT REPAIR

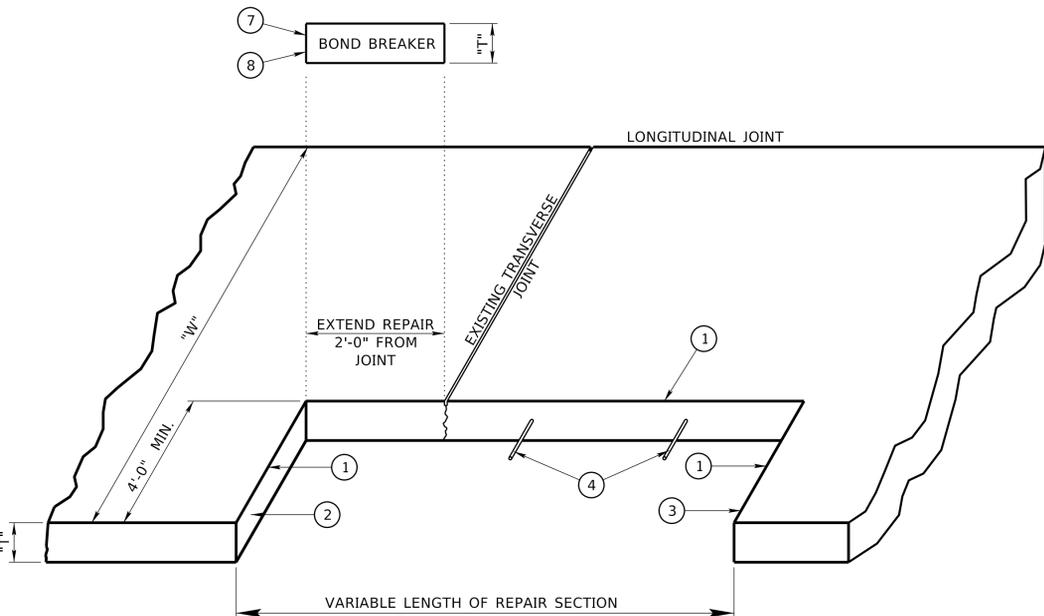
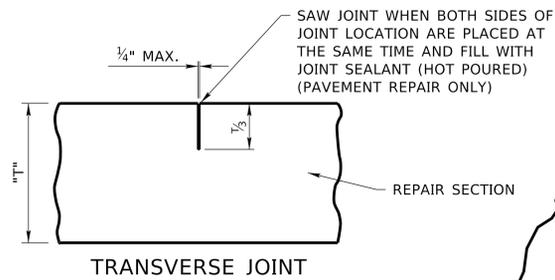


FIGURE B

NOTE:
THE EXISTING TRANSVERSE JOINT SHALL NOT BE RE-ESTABLISHED IN THE PAVEMENT REPAIR.



NOTE:
FORMED JOINTS ARE NOT REQUIRED ON DIAMOND GRINDING PROJECTS.

LEGEND

- "W" WIDTH OF PANEL
- "L" LENGTH OF PANEL
- "T" THICKNESS OF CONCRETE
- (E) EXISTING TRANSVERSE JOINT
- [Hatched Box] CONCRETE REMOVAL (PARTIAL LANE WIDTH)
- [Hatched Box] CONCRETE REMOVAL (FULL LANE WIDTH)

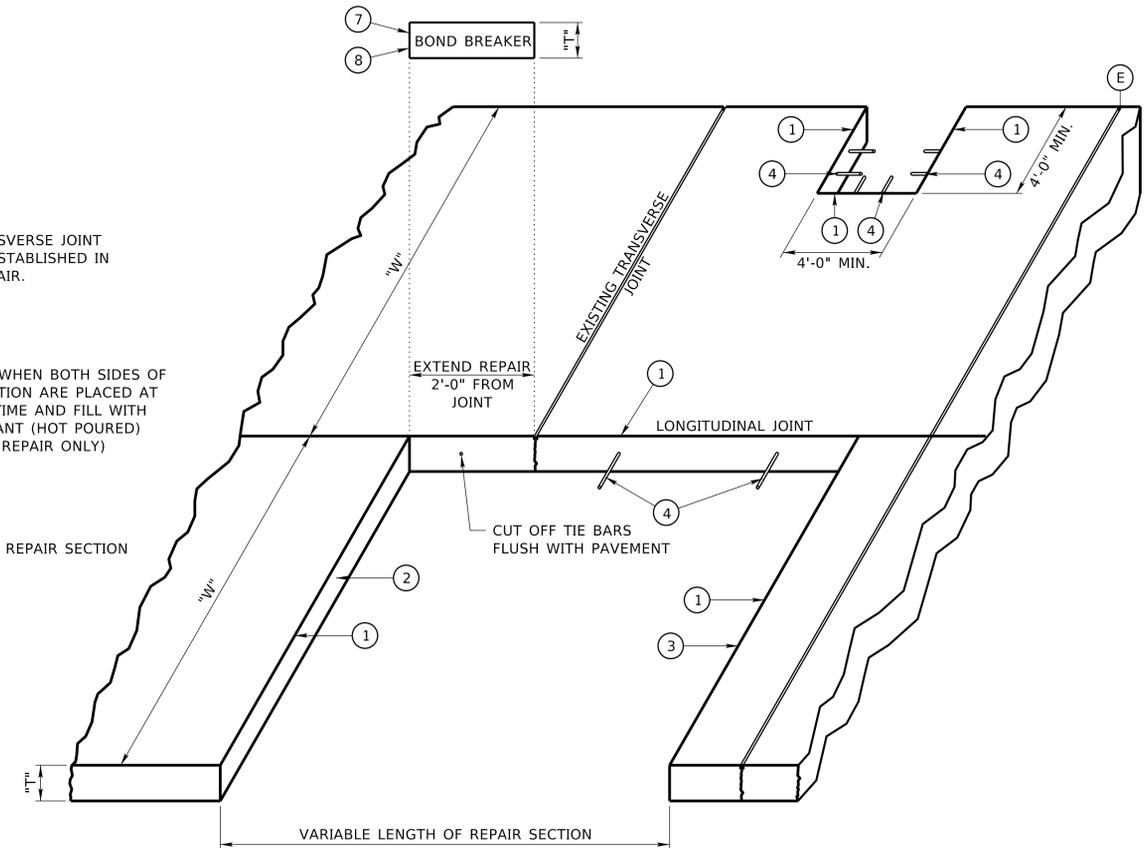
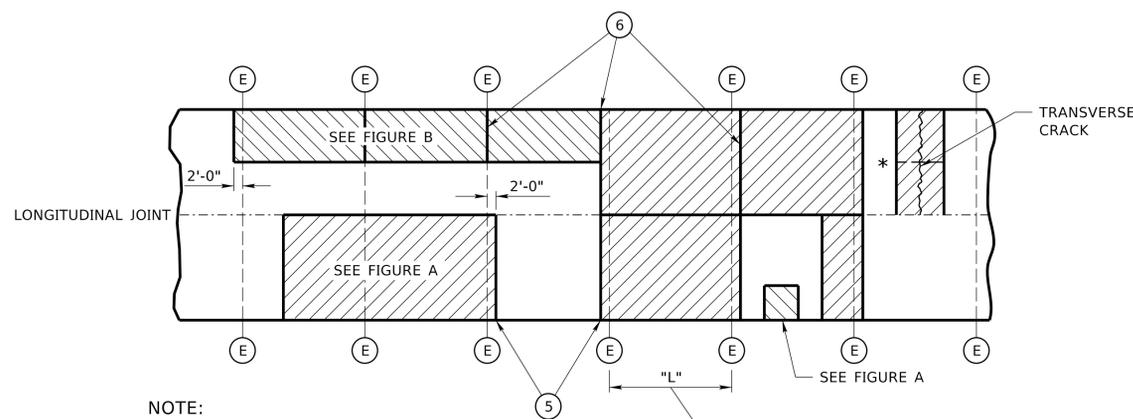
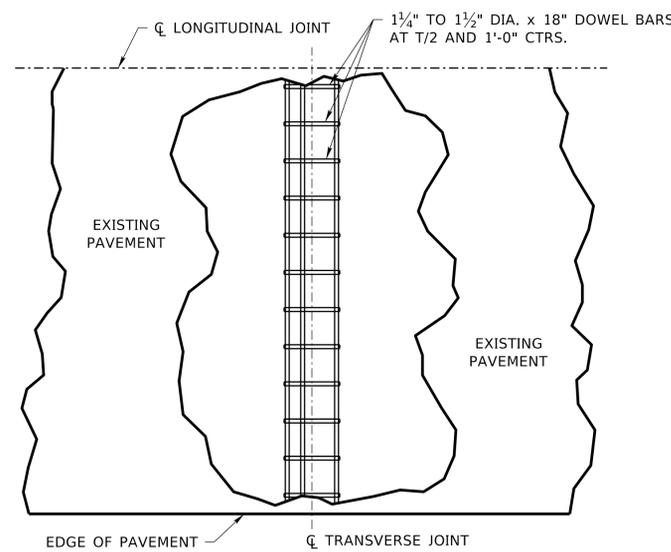


FIGURE A

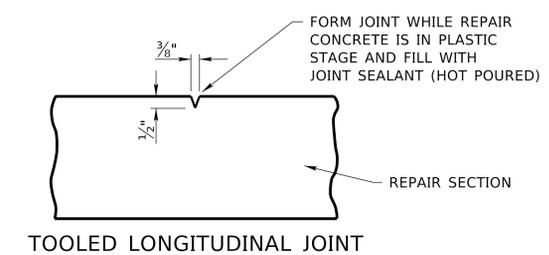


NOTE:
IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

DOWELED CONCRETE PAVEMENT REPAIR



EXISTING DOWELED CONCRETE PAVEMENT



TOOLED LONGITUDINAL JOINT

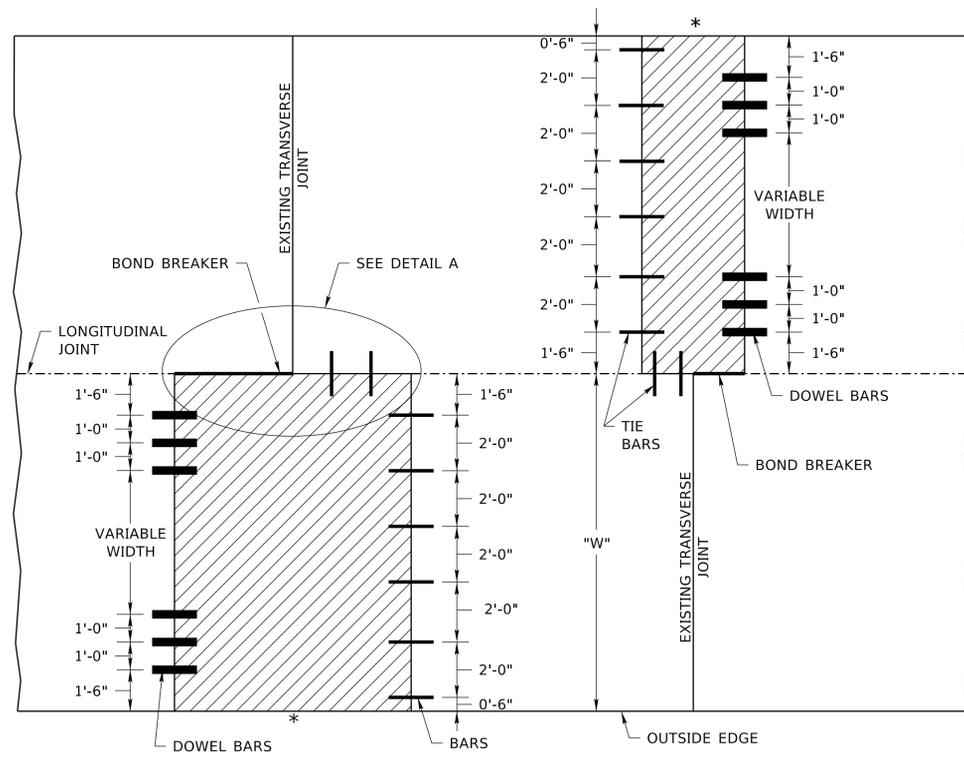
NOTE:
CONTRACTOR HAS OPTION TO SAW OR TOOL LONGITUDINAL JOINT ON DIAMOND GRINDING PROJECTS.

* THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.

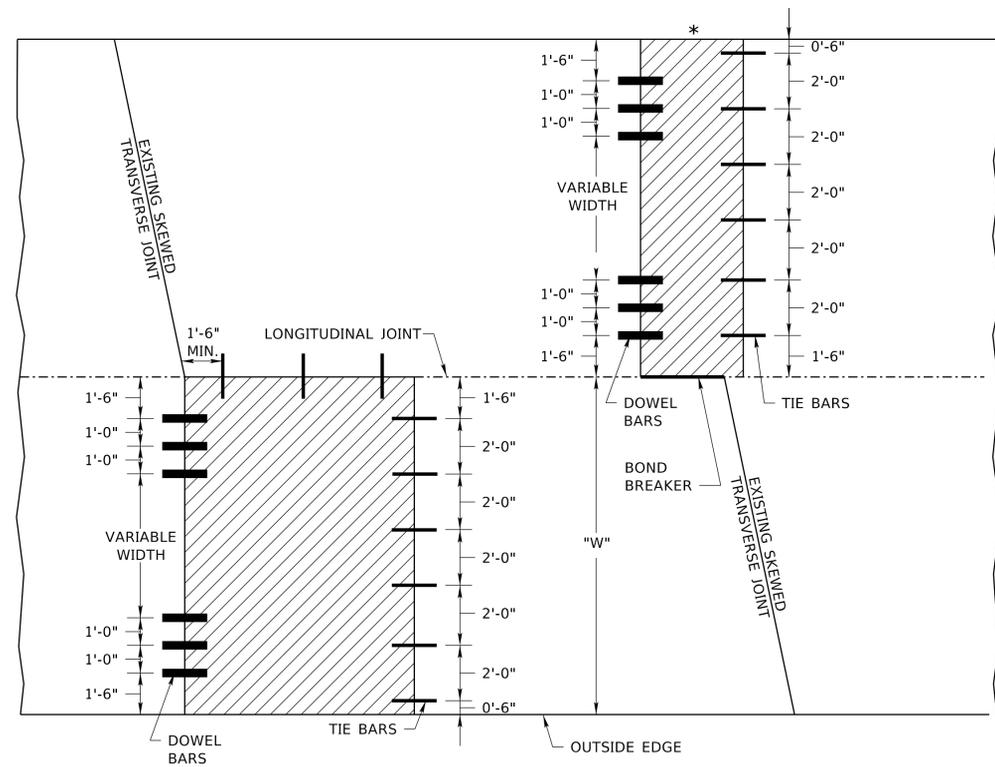
A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.

NOTE:
FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.

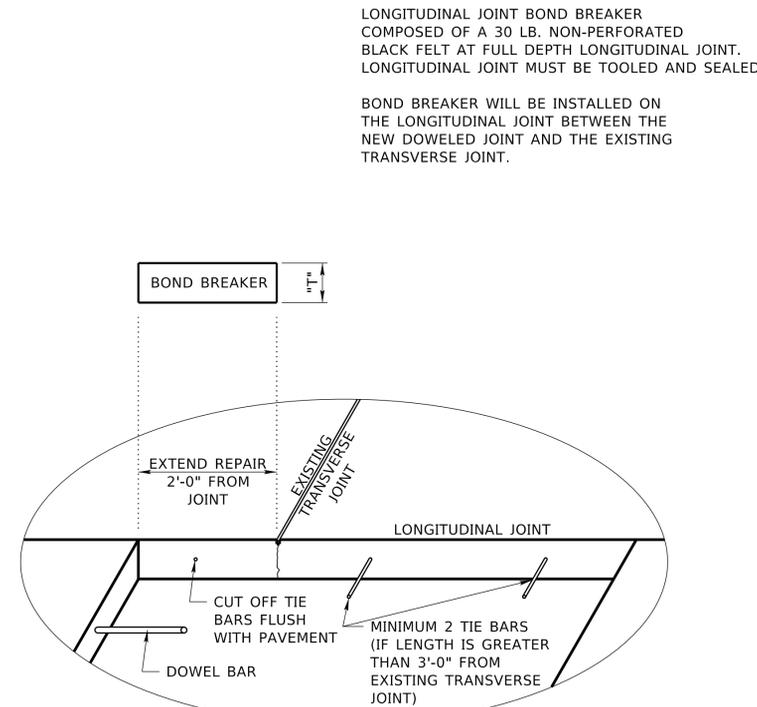
PAVEMENT REPAIR STANDARD TYPICAL CROSS SECTIONS



TRANSVERSE JOINT DETAILS



SKEWED TRANSVERSE JOINT DETAILS



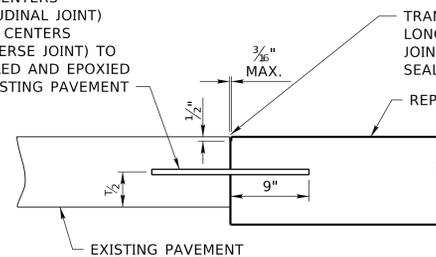
DETAIL A

- * FOR EXISTING CONCRETE SHOULDERS, MATCH BOND BREAKER ON OPPOSITE LONGITUDINAL JOINT.
- ** INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- *** WHERE THERE IS AN EXISTING CURB, PERPETUATE THE CURB AS PART OF THE CONCRETE REPAIR

NOTE:
BAR SPACING MAY VARY DEPENDING ON LANE WIDTH.

CONCRETE REMOVAL

NO. 5 x 18" TIE BARS AT 33" CENTERS (LONGITUDINAL JOINT) AND 24" CENTERS (TRANSVERSE JOINT) TO BE DRILLED AND EPOXIED INTO EXISTING PAVEMENT



TIE BAR

NOTE:
ALL STEEL DOWEL BARS WILL BE EPOXY COATED.

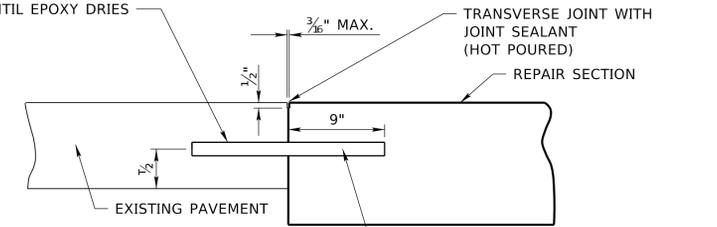
"T" = THICKNESS OF CONCRETE.

LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT. LONGITUDINAL JOINT MUST BE TOOLED AND SEALED.

BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED JOINT AND THE EXISTING TRANSVERSE JOINT.

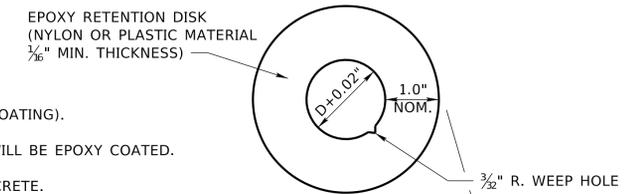
NO OVERLAY TIE AND DOWEL PLACEMENT, EXCLUDES 6" & 7" PCC

1 1/4" DIA. x 18" DOWEL BARS "T" = 8" TO 9",
1 1/2" DIA. x 18" DOWEL BARS "T" = 10" OR MORE
DOWEL BARS TO BE DRILLED AND EPOXIED INTO EXISTING PAVEMENT. PLACE EPOXY RETENTION DISK. SUPPORT DOWEL BARS IN HORIZONTAL POSITION UNTIL EPOXY DRIES



DOWEL BAR

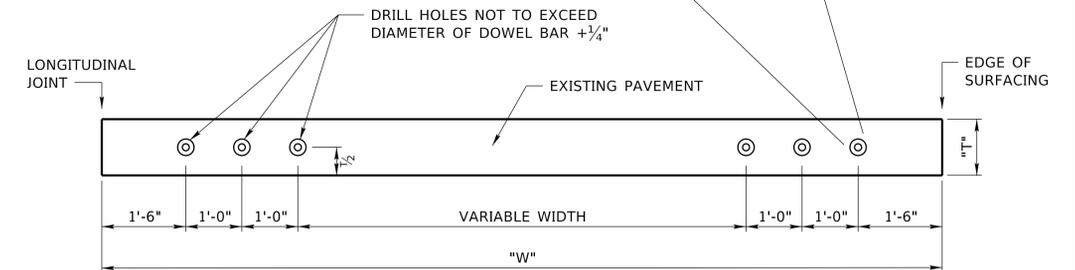
NOTE:
ALL STEEL DOWEL BARS WILL BE EPOXY COATED.



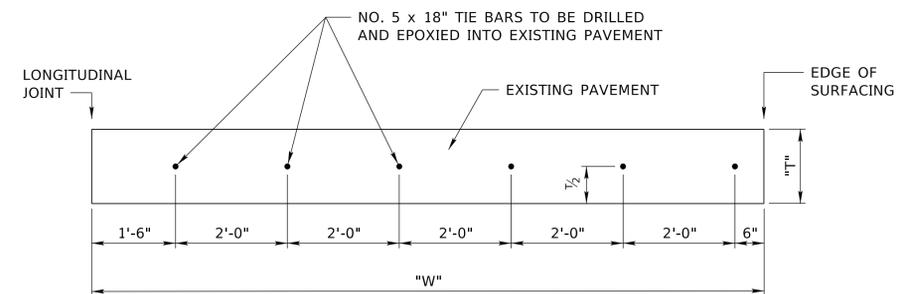
NOTE:
D = DOWEL DIAMETER (INCLUDING PROTECTIVE COATING).

ALL STEEL DOWEL BARS WILL BE EPOXY COATED.

"T" = THICKNESS OF CONCRETE.



DOWEL BAR SPACING

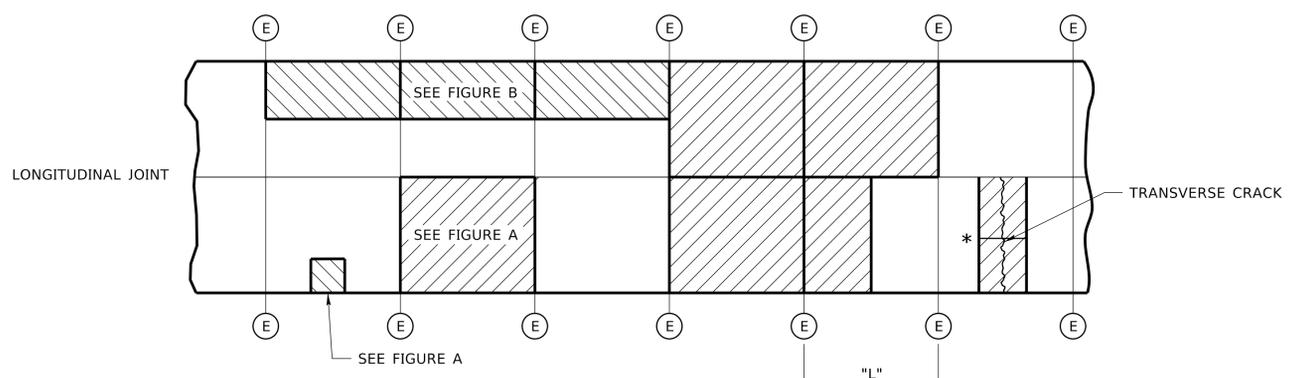
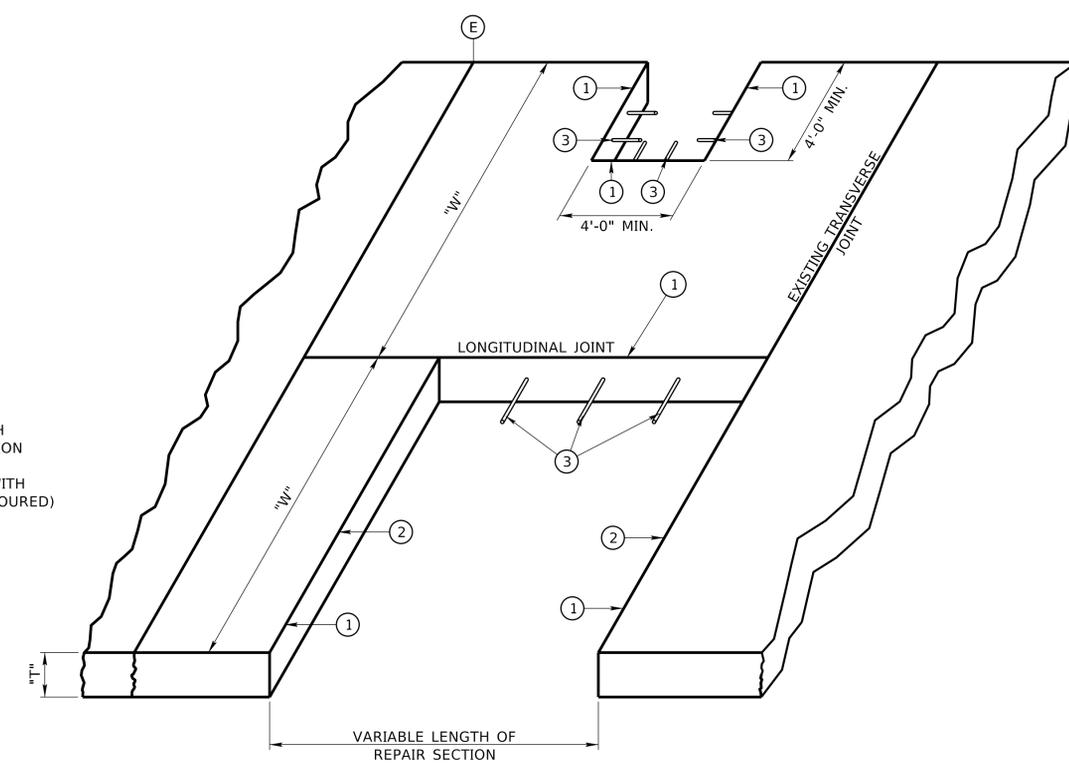
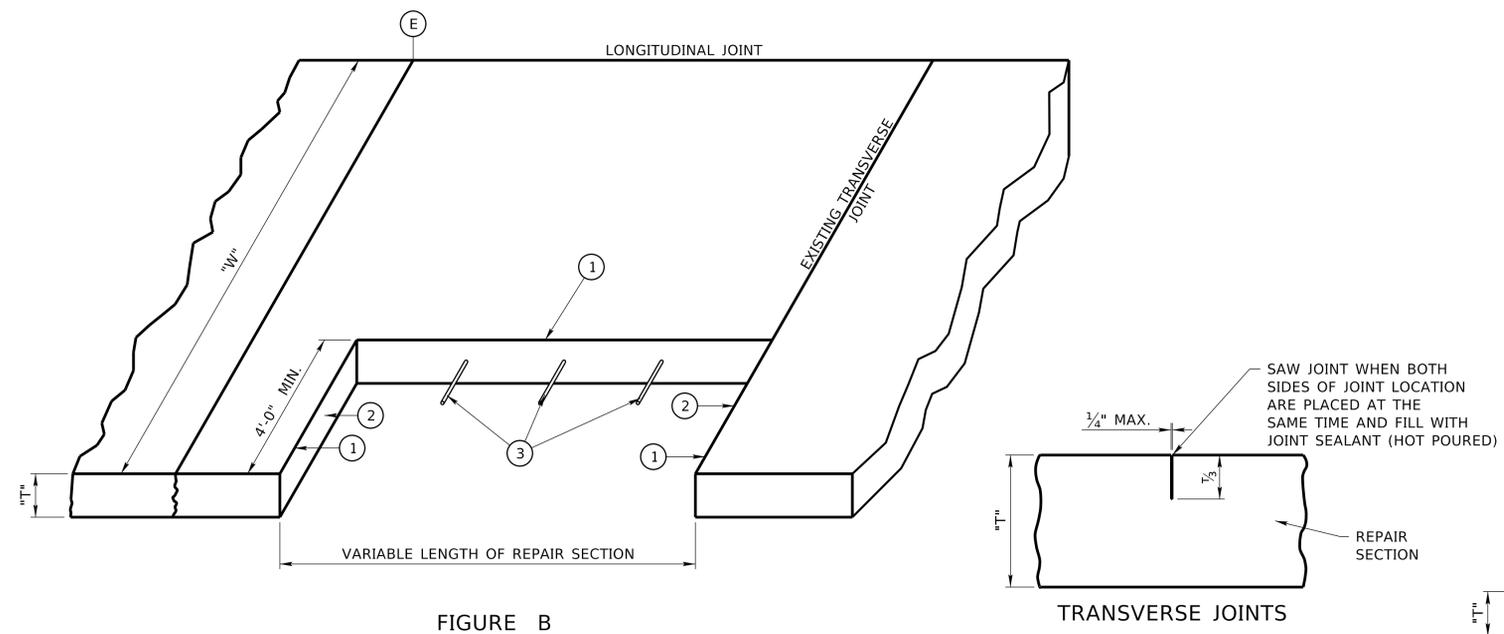


TIE BAR SPACING

NOTE:
"T" = THICKNESS OF CONCRETE.

- ① FULL DEPTH DIAMOND SAW CUT.
- ② INSTALL #5 TIE BARS AT NEW TRANSVERSE JOINT AT 2'-0" INTERVALS. MINIMUM 2-TIE BARS PER SIDE.
- ③ TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.

NO OVERLAY 6" AND 7" PLAIN CONCRETE REPAIR



- LEGEND
- "W" WIDTH OF PANEL
 - "L" LENGTH OF PANEL
 - "T" THICKNESS OF CONCRETE
 - (E) EXISTING TRANSVERSE JOINT
 - CONCRETE REMOVAL (PARTIAL LANE WIDTH)
 - CONCRETE REMOVAL (FULL LANE WIDTH)

NOTE:
* THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.

A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.

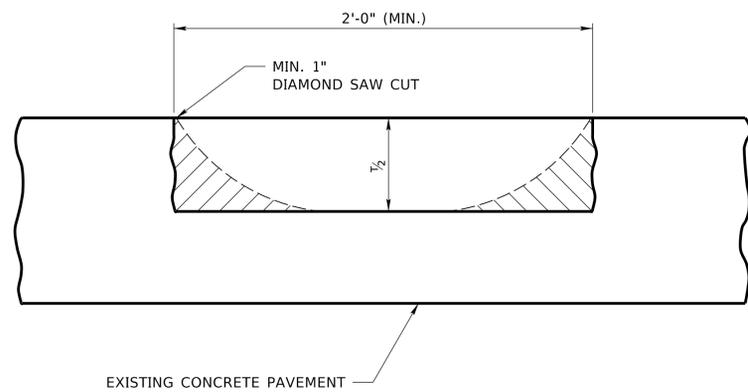
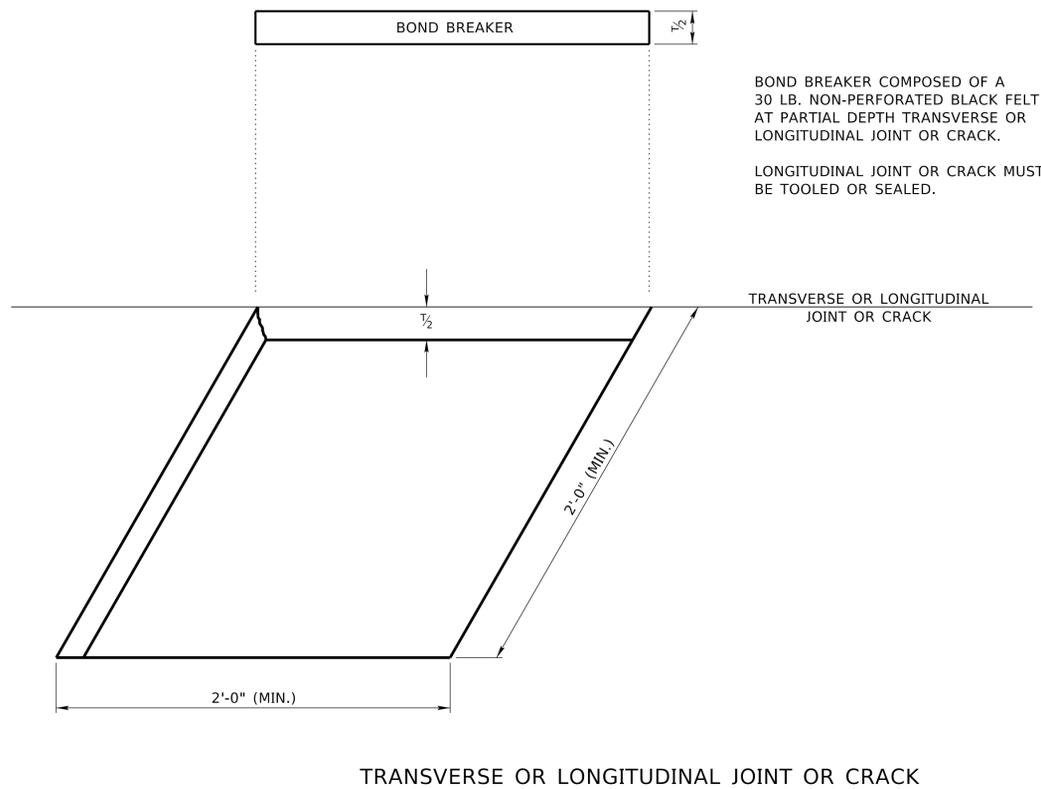
OR:
IF THE WIDTH OF PANEL ("W") WAS PREVIOUSLY WIDENED, CONSTRUCT A TOOLED LONGITUDINAL JOINT TO MATCH THE LONGITUDINAL JOINTS OF THE ADJOINING PANELS. SEE JOINT DETAIL FOR THIS TOOLED LONGITUDINAL JOINT.

NOTE:
FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.

NOTE:
IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

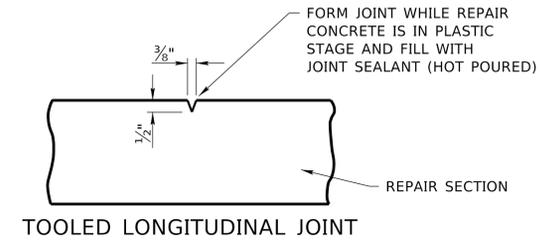
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NO OVERLAY PARTIAL DEPTH REPAIR



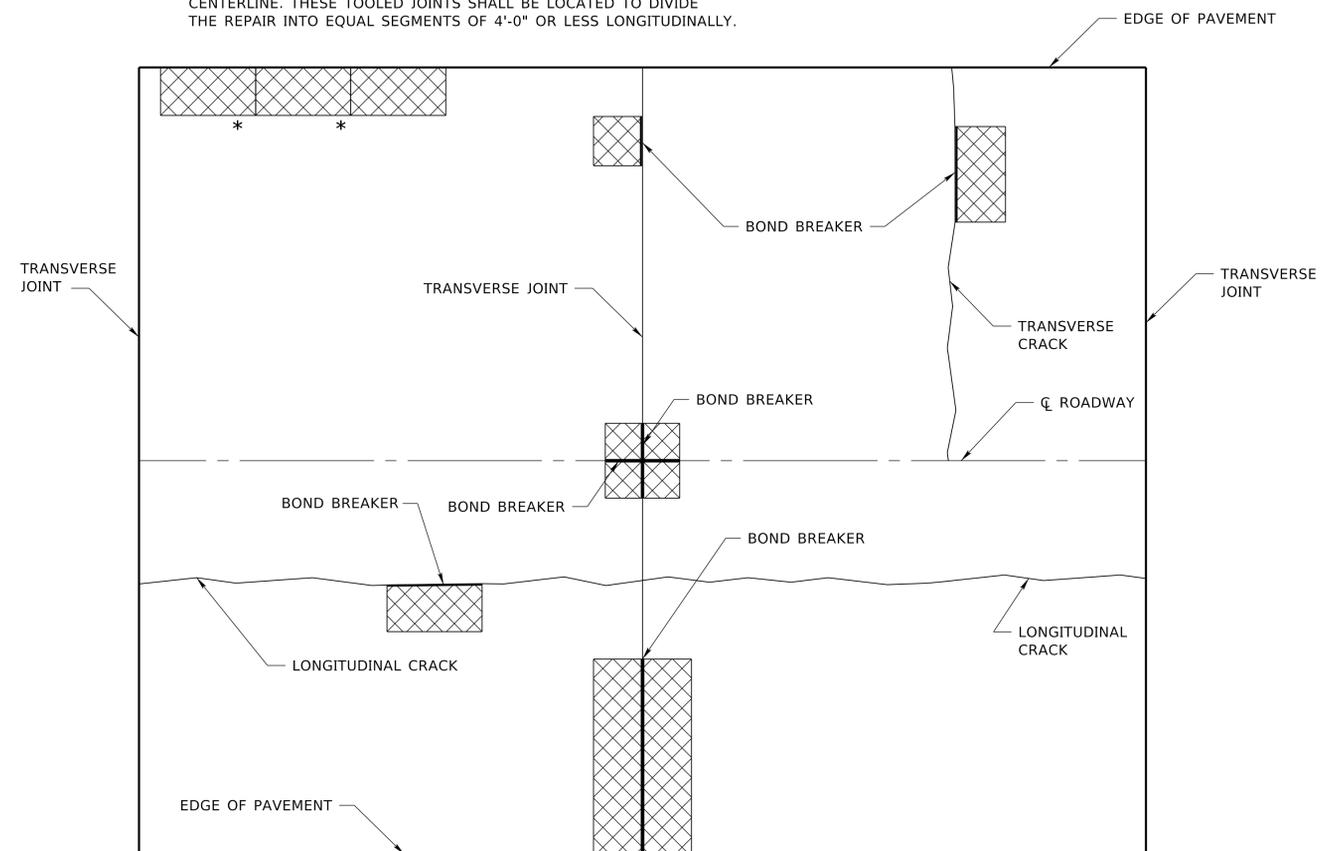
TYPICAL SECTION OF PARTIAL DEPTH REPAIRS

NOTE:
"T" = THICKNESS OF CONCRETE.



NOTE:
CONTRACTOR HAS OPTION TO SAW OR TOOL LONGITUDINAL JOINT ON DIAMOND GRINDING PROJECTS.

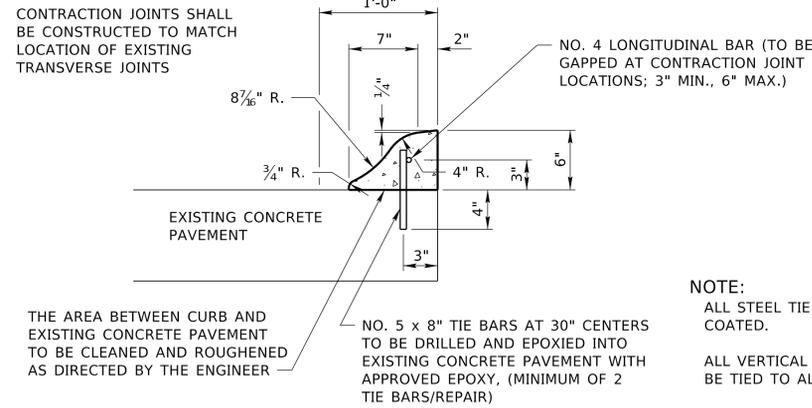
* IF PARTIAL DEPTH REPAIR IS LONGER THAN 4'-0" LONGITUDINALLY, TOOLED TRANSVERSE JOINTS SHALL BE MADE PERPENDICULAR TO CENTERLINE. THESE TOOLED JOINTS SHALL BE LOCATED TO DIVIDE THE REPAIR INTO EQUAL SEGMENTS OF 4'-0" OR LESS LONGITUDINALLY.



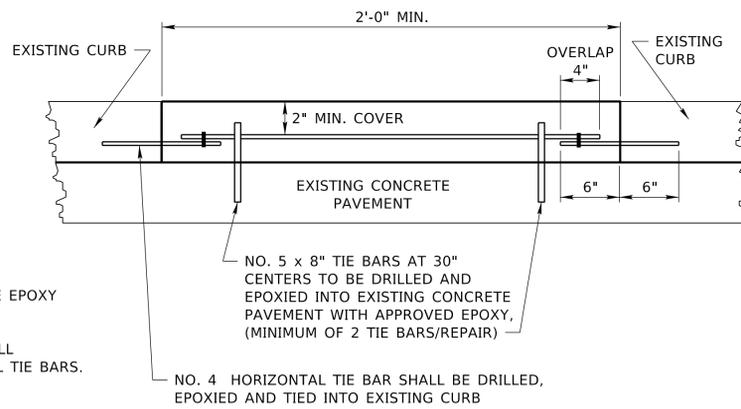
CONCRETE PAVEMENT REPAIR, TYPE "A", TYPE "B" AND TYPE "C", PARTIAL DEPTH

NOTE:
FOR CONCRETE PAVEMENT REPAIR (PARTIAL DEPTH) LOCATIONS, SEE SHEET C.

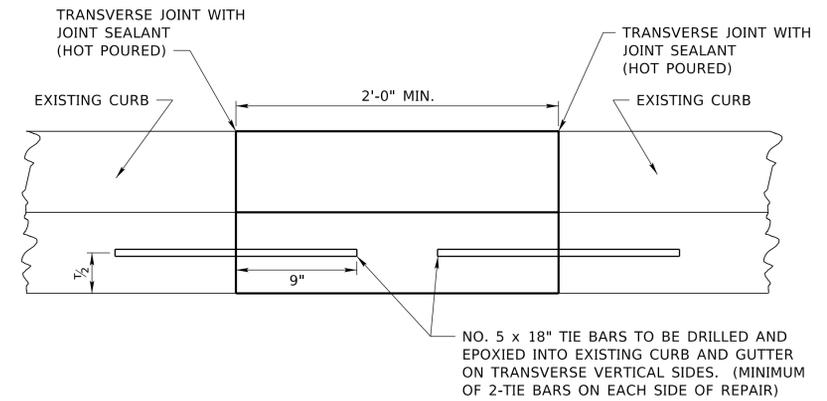
PAVEMENT REPAIR
STANDARD TYPICAL CROSS SECTIONS



CONCRETE TACK-ON CURB REPAIR

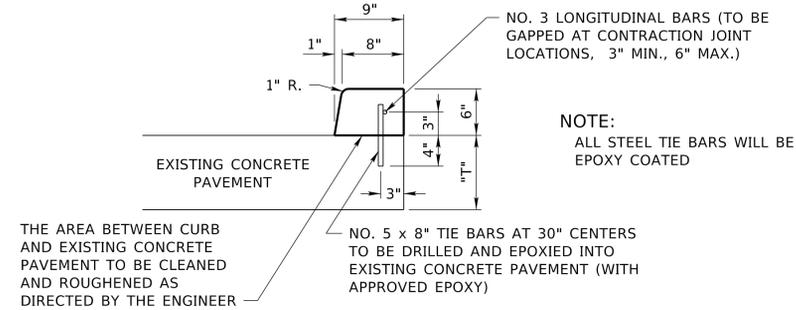


FRONT VIEW OF TACK-ON CURB REPAIR



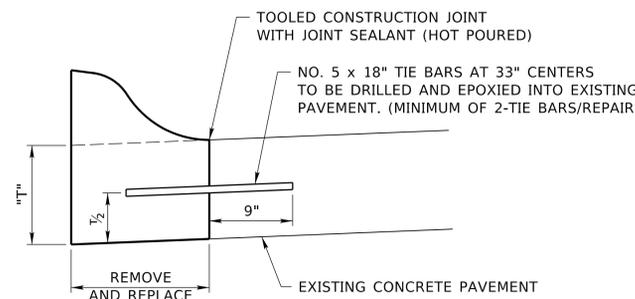
CONCRETE CURB REPAIR

NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED
"T" = THICKNESS OF CONCRETE.



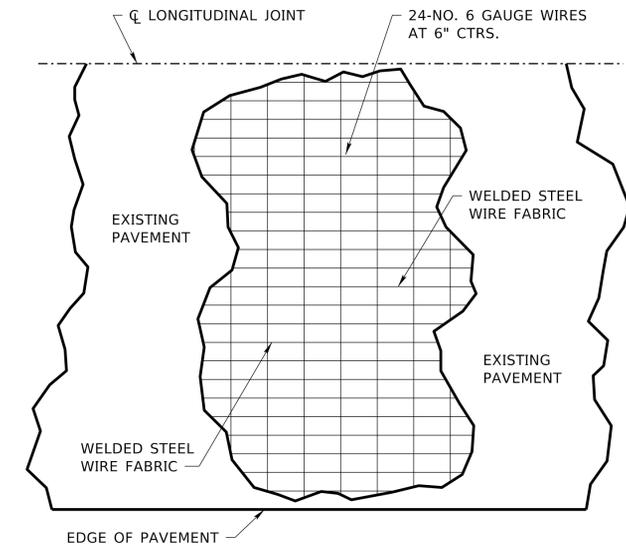
CONCRETE TACK ON CURB REPAIR (BARRIER TYPE)

NOTE:
"T" = THICKNESS OF CONCRETE.



INTEGRAL CURB REPAIR

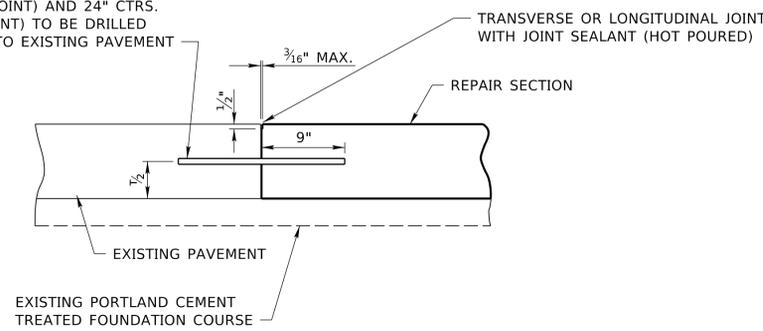
NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.
"T" = THICKNESS OF CONCRETE.



EXISTING 9"-6"-9" AND 9"-7"-9" REINFORCED CONCRETE PAVEMENT

PAVEMENT REPAIR
STANDARD TYPICAL CROSS SECTIONS

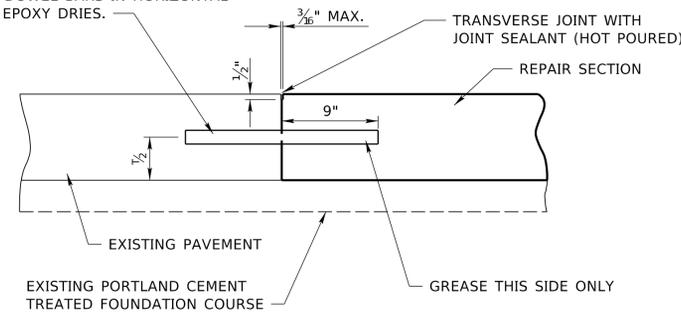
NO. 5 x 18" TIE BARS AT 33" CTRS. (LONGITUDINAL JOINT) AND 24" CTRS. (TRANSVERSE JOINT) TO BE DRILLED AND EPOXIED INTO EXISTING PAVEMENT



TIE BAR

NOTE:
"T" = THICKNESS OF CONCRETE.

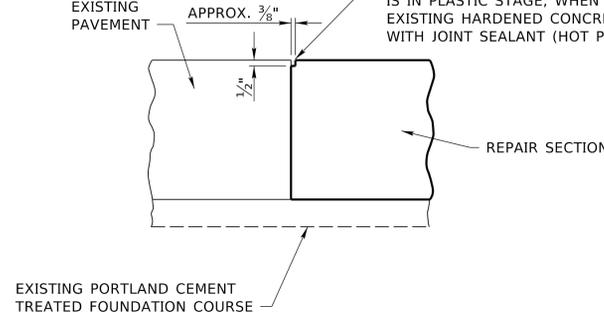
1 1/4" DIA. x 18" DOWEL BARS "T" = 8" TO 9",
1 1/2" DIA. x 18" DOWEL BARS "T" = 10" OR MORE
DOWEL BARS TO BE DRILLED AND EPOXIED INTO EXISTING PAVEMENT. PLACE EPOXY RETENTION DISK. SUPPORT DOWEL BARS IN HORIZONTAL POSITION UNTIL EPOXY DRIES.



DOWEL BAR

NOTE:
ALL STEEL DOWEL BARS WILL BE EPOXY COATED.

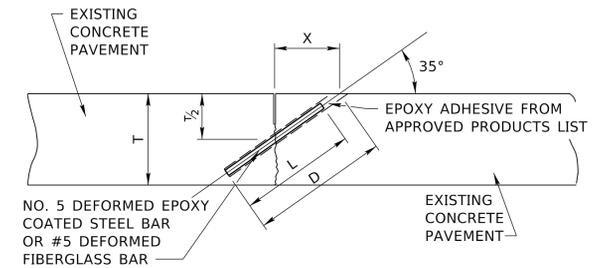
FORM JOINT WHILE REPAIR CONCRETE IS IN PLASTIC STAGE, WHEN ADJOINING EXISTING HARDENED CONCRETE AND FILL WITH JOINT SEALANT (HOT POURED)



FORMED JOINT

NOTE:
FORMED JOINTS NOT REQUIRED ON DIAMOND GRIND PROJECTS.

NO OVERLAY TIES, DOWELS AND SEALING

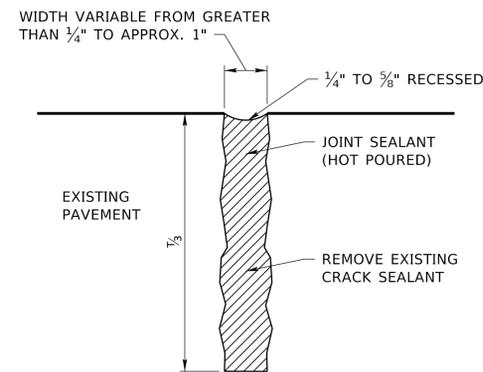
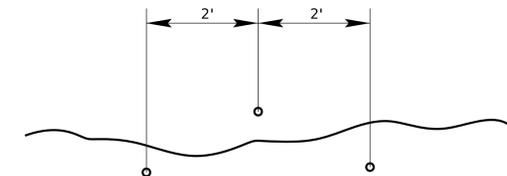


CROSS STITCHING
EXISTING CONCRETE PAVEMENT

(SEE SHEET C FOR LOCATIONS)

"T"	"X"	"D"	"L"
8.0"	5.7"	11.9"	9.8"
9.0"	6.5"	13.5"	11.5"
10.0"	7.0"	14.0"	12.5"
11.0"	8.0"	16.0"	13.0"
12.0"	8.5"	17.5"	14.0"
13.0"	9.5"	20.0"	18.0"
14.0"	10.0"	21.0"	18.0"

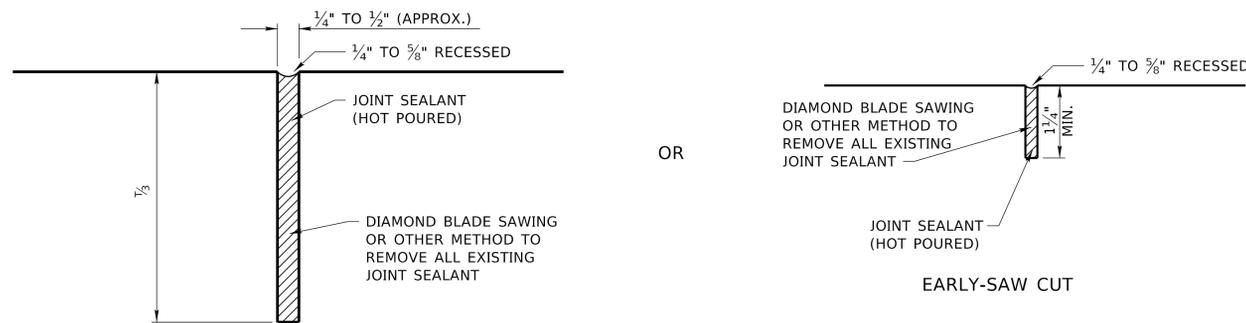
NOTE:
DEFORMED BAR SHALL BE 1" BELOW THE SURFACE AND SPACED AT 2'-0" INTERVALS ON OPPOSITE SIDES OF THE CRACK OR JOINT.
BOREHOLE AND DEFORMED BAR SHALL NOT EXTEND THROUGH BOTTOM OF CONCRETE SLAB.



TYPICAL TRANSVERSE AND LONGITUDINAL CRACK

NOTE:
"T" = THICKNESS OF CONCRETE.

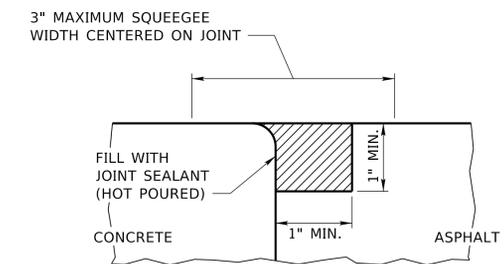
NOTE:
FOR CRACK SEALING LOCATIONS, SEE SHEET C.



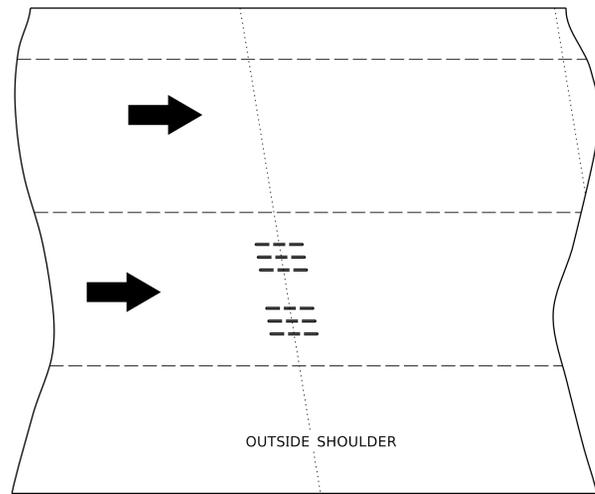
EXISTING TRANSVERSE AND LONGITUDINAL JOINT DETAILS

"T" = *

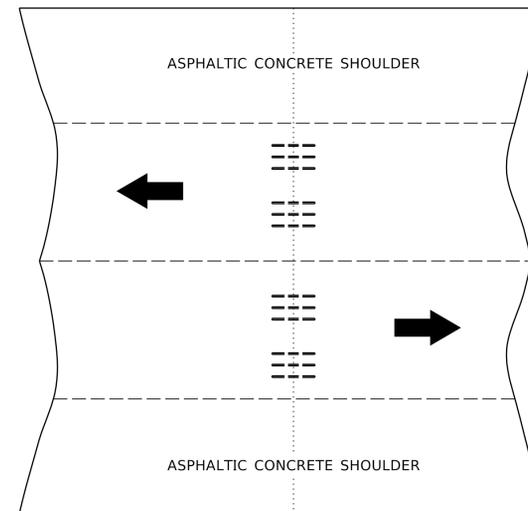
NOTE:
JOINT MAY BE SAWN 1/8" WIDER THAN EXISTING TO FACILITATE EXISTING JOINT SEALANT REMOVAL. EXISTING JOINTS MAY HAVE BEEN SAWN T/3 OR AS EARLY SAW CUT.



LONGITUDINAL JOINT SEALING DETAIL
(ASPHALT TO CONCRETE)



DETAIL OF EXISTING DOWEL BAR RETROFIT - DRIVING LANE ONLY
FOR INFORMATION ONLY



DETAIL OF EXISTING DOWEL BAR RETROFIT - DRIVING LANES ONLY
(FOR INFORMATION ONLY)

NOTE:
TRANSVERSE JOINT SPACING AT 16'-6".

PAVEMENT REPAIR
STANDARD TYPICAL CROSS SECTIONS

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DEPARTMENT OF TRANSPORTATION

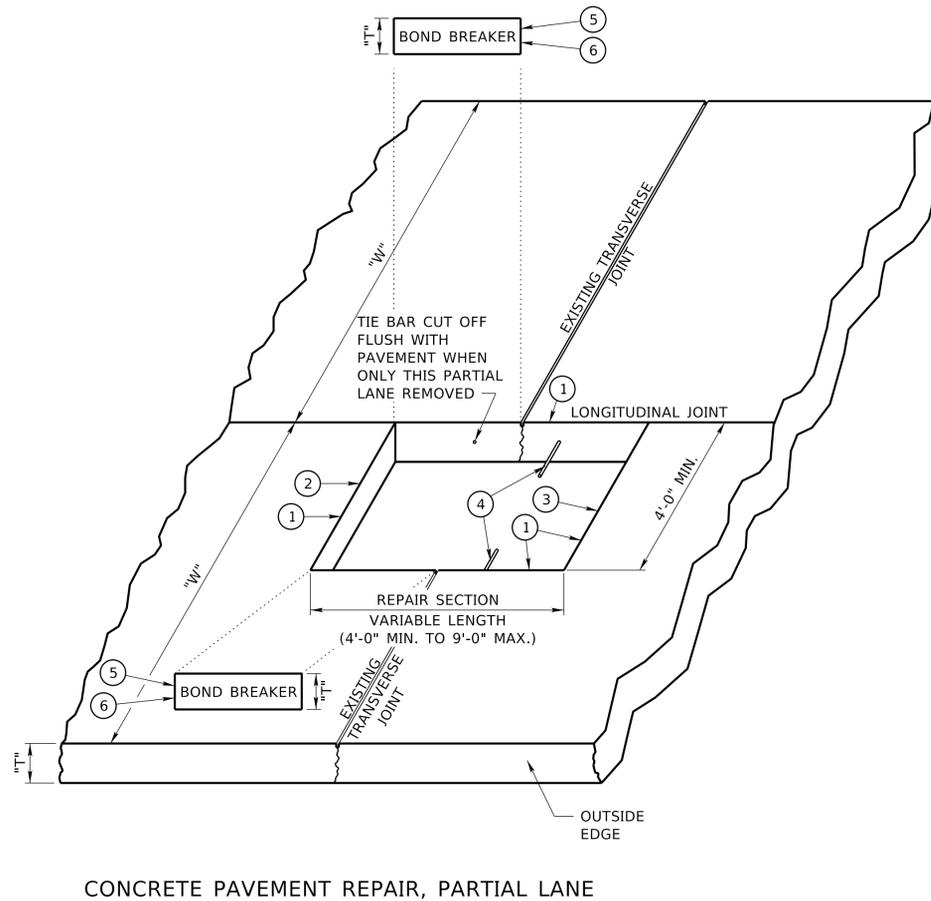
Materials &
Research Division
1400 Nebraska Parkway
Lincoln, NE 68502
Office: 402-479-4697

COMPUTER: BG0419M187

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- ① FULL DEPTH DIAMOND SAW CUT (FULL DEPTH 4" WHEEL CUTTER SAW CUT WILL BE PERMITTED IF REPAIR IS OVERLAID).
- ② INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- ③ INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS.
- ④ TIE BARS REQUIRED.
- ⑤ LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT.
- ⑥ BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED TRANSVERSE JOINT AND THE EXISTING TRANSVERSE JOINT.

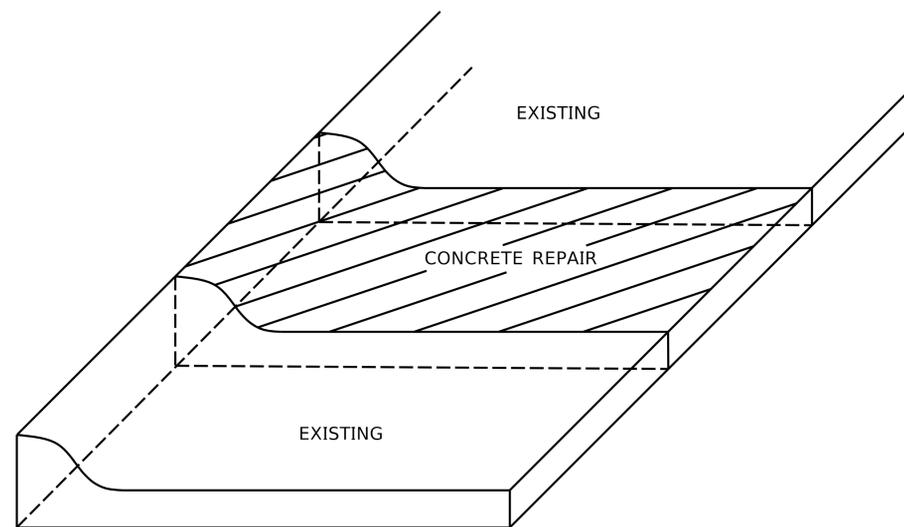


- NOTES:
- * THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.
 - A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.
 - CONTRACTOR HAS OPTION TO SAW OR TOOL LONGITUDINAL JOINT ON DIAMOND GRINDING PROJECTS.
- OR:
- ** IF THE WIDTH OF PANEL ("W") WAS PREVIOUSLY WIDENED, CONSTRUCT A TOOLED LONGITUDINAL JOINT TO MATCH THE LONGITUDINAL JOINTS OF THE ADJOINING PANELS.
- IF THE PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

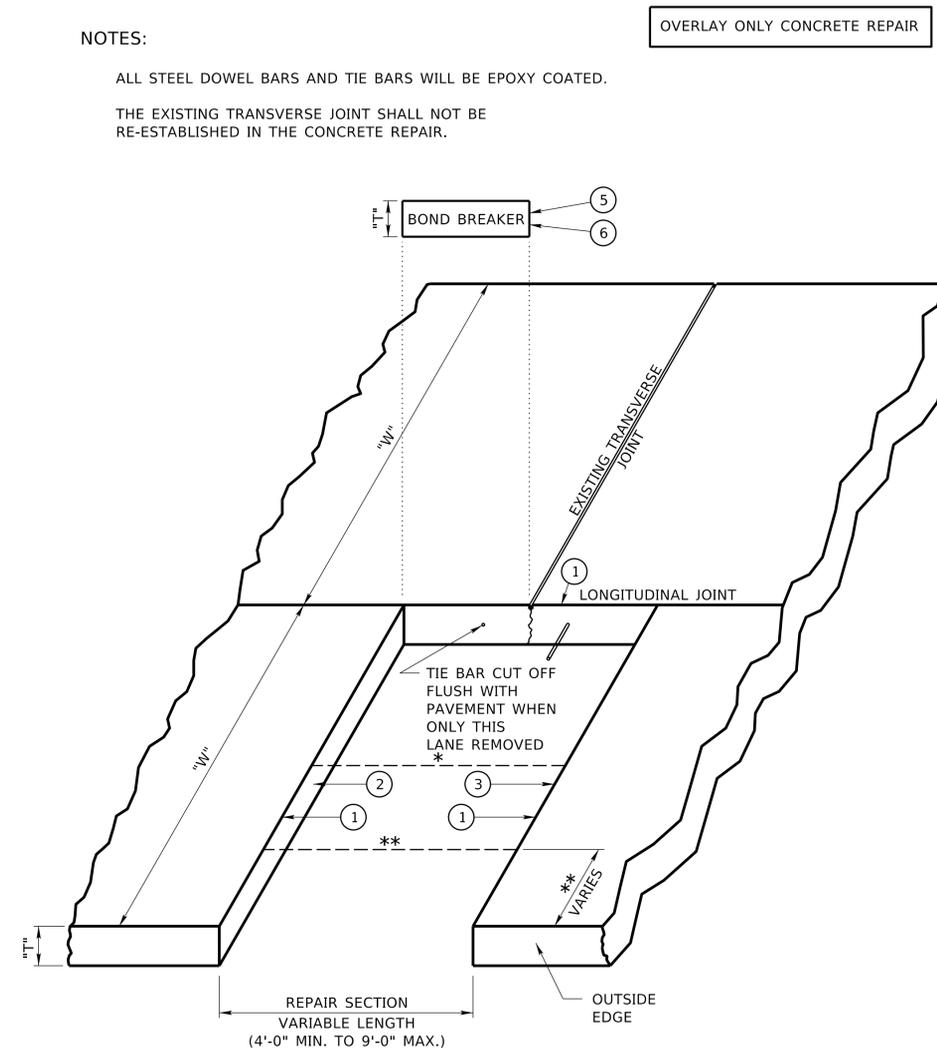
LEGEND

- "W" WIDTH OF PANEL
- "L" LENGTH OF PANEL
- "T" THICKNESS OF CONCRETE

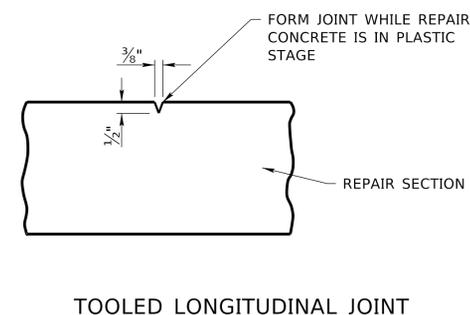
NOTE:
FOR CONCRETE REPAIR LOCATIONS, SEE SHEET C.



NOTE:
CONSTRUCTION OF THE CURB IS
SUBSIDIARY TO THE CONCRETE REPAIR.



- NOTES:
- ALL STEEL DOWEL BARS AND TIE BARS WILL BE EPOXY COATED.
 - THE EXISTING TRANSVERSE JOINT SHALL NOT BE RE-ESTABLISHED IN THE CONCRETE REPAIR.



PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

- ① FULL DEPTH DIAMOND SAW CUT. (FULL DEPTH 4" WHEEL CUTTER SAW CUT WILL BE PERMITTED IF REPAIR IS OVERLAID).
- ② INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- ③ INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS. MINIMUM 2-TIE BARS PER SIDE.
- ④ TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.
- ⑤ IN THE CASE OF PANEL REPLACEMENT, DOWEL BARS SHALL BE INSTALLED AT EXISTING TRANSVERSE JOINTS. (MINIMUM 3-DOWEL BARS PER WHEEL PATH).
- ⑥ IN THE CASE OF MULTIPLE PANEL REPLACEMENTS, DOWEL BARS SHALL BE INSTALLED AT 12" CENTERS, AS SHOWN IN THE STANDARD PLANS. BASKETS SHALL BE USED ACCORDING TO THE STANDARD SPECIFICATIONS, SUBSECTION 603.03.

OVERLAY ONLY PLAIN CONCRETE PAVEMENT REPAIR

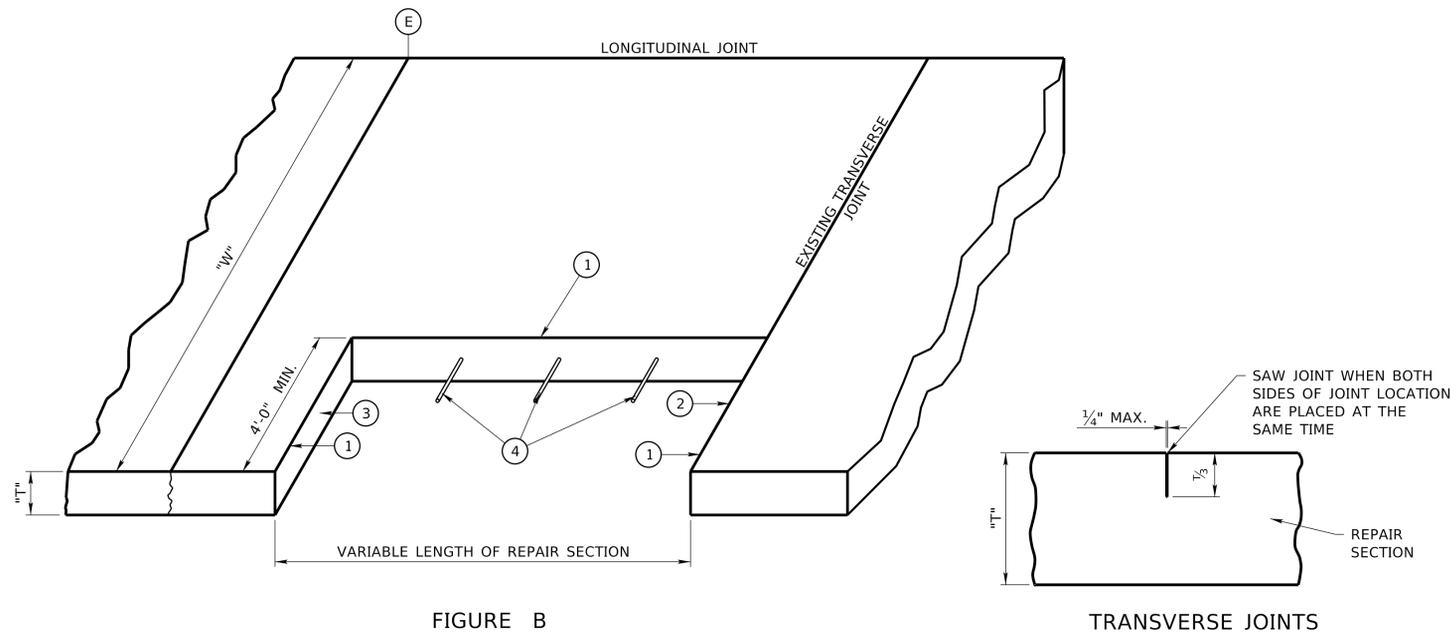


FIGURE B

TRANSVERSE JOINTS

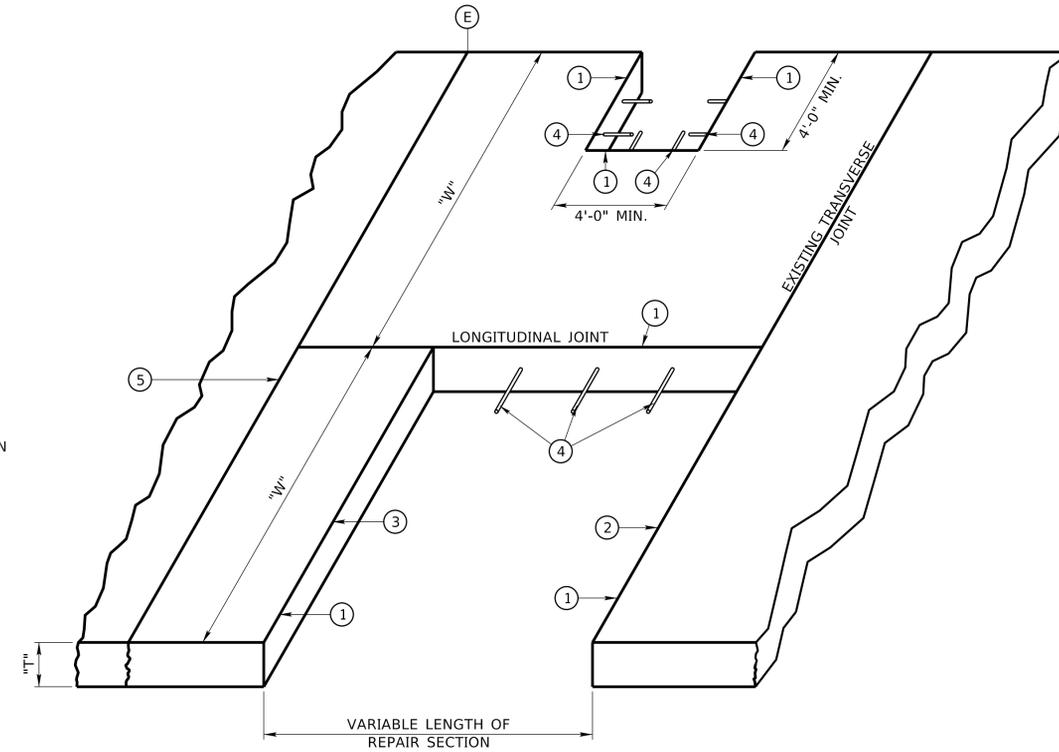
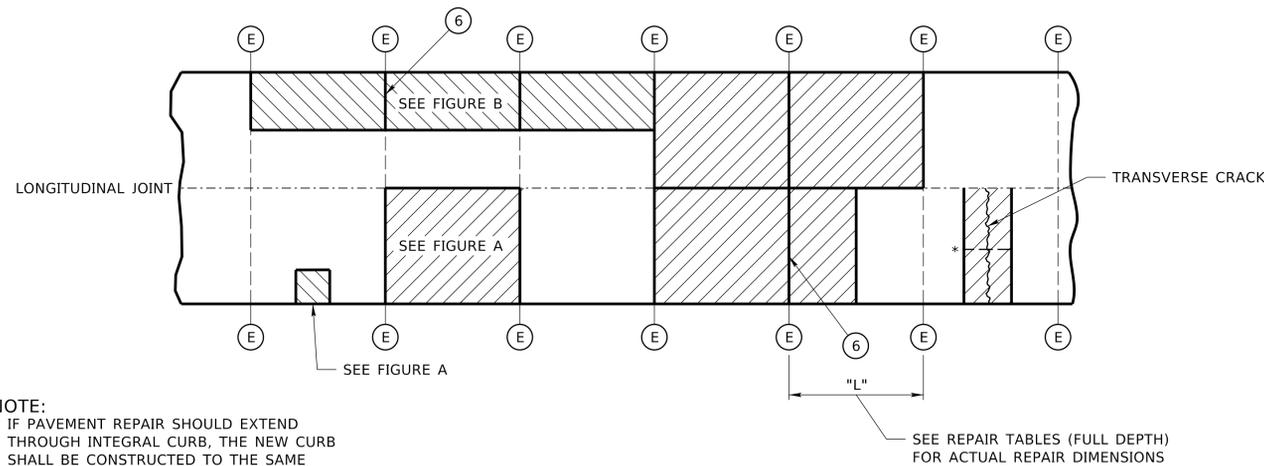


FIGURE A

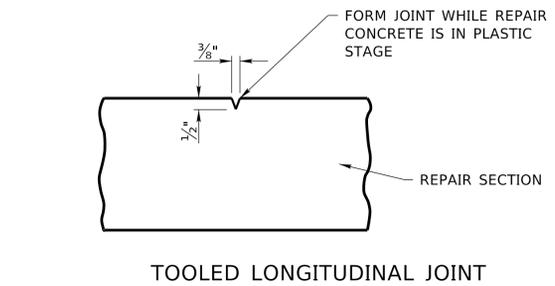


PLAIN CONCRETE PAVEMENT REPAIR

NOTE:
IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

SEE REPAIR TABLES (FULL DEPTH) FOR ACTUAL REPAIR DIMENSIONS

- LEGEND
- "W" WIDTH OF PANEL
 - "L" LENGTH OF PANEL
 - "T" THICKNESS OF CONCRETE
 - ⓔ EXISTING TRANSVERSE JOINT
 - [Hatched Box] CONCRETE REMOVAL (PARTIAL LANE WIDTH)
 - [Hatched Box] CONCRETE REMOVAL (FULL LANE WIDTH)



TOOLED LONGITUDINAL JOINT

NOTES:
*THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.

A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.

OR:
IF THE WIDTH OF PANEL ("W") WAS PREVIOUSLY WIDENED, CONSTRUCT A TOOLED LONGITUDINAL JOINT TO MATCH THE LONGITUDINAL JOINTS OF THE ADJOINING PANELS. SEE JOINT DETAIL FOR THIS TOOLED LONGITUDINAL JOINT.

NOTE:
FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.

PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

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1400 Nebraska Parkway
Lincoln, NE 68502
Office: 402-479-4697

- ① FULL DEPTH DIAMOND SAW CUT. (FULL DEPTH 4" WHEEL CUTTER SAW CUT WILL BE PERMITTED IF REPAIR IS OVERLAID).
- ② INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- ③ INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS. MINIMUM 2-TIE BARS PER SIDE.
- ④ TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.
- ⑤ IN THE CASE OF PANEL REPLACEMENT, DOWEL BARS SHALL BE INSTALLED 2'-0" BEYOND THE EXISTING TRANSVERSE JOINTS. (3-DOWEL BARS PER WHEEL PATH).
- ⑥ IN THE CASE OF MULTIPLE PANEL REPLACEMENTS, DOWEL BARS SHALL BE INSTALLED AT 12" CENTERS, AS SHOWN IN THE STANDARD PLANS. BASKETS SHALL BE USED ACCORDING TO THE STANDARD SPECIFICATIONS, SUBSECTION 603.03.

- ⑦ LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT.
- ⑧ BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED JOINT AND THE EXISTING TRANSVERSE JOINT.

NOTE:
THE EXISTING TRANSVERSE JOINT SHALL NOT BE RE-ESTABLISHED IN THE PAVEMENT REPAIR.

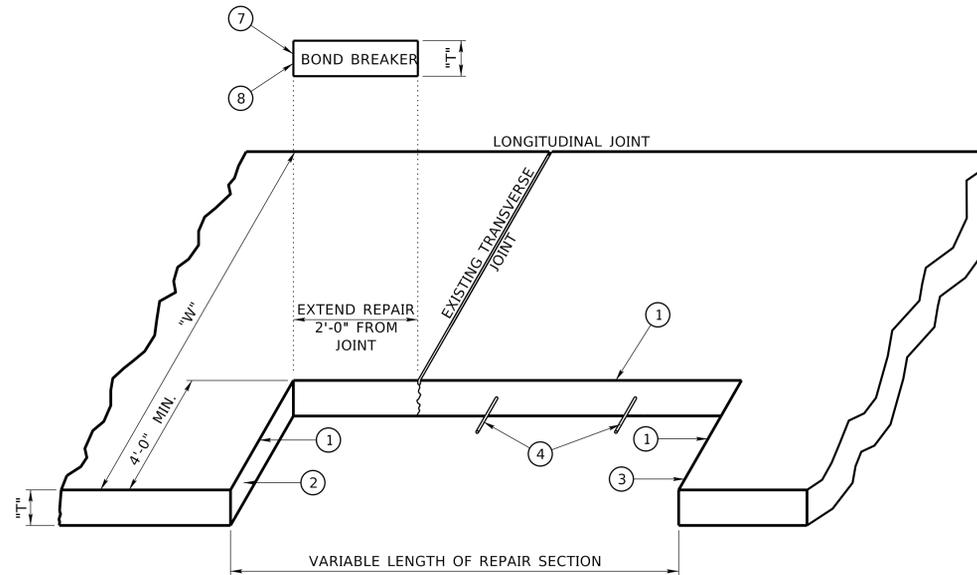
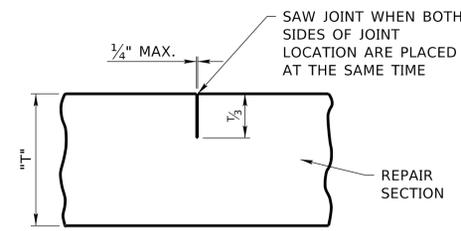


FIGURE B



TRANSVERSE JOINTS

- LEGEND
- "W" WIDTH OF PANEL
 - "L" LENGTH OF PANEL
 - "T" THICKNESS OF CONCRETE
 - ⓔ EXISTING TRANSVERSE JOINT
 - CONCRETE REMOVAL (PARTIAL LANE WIDTH)
 - CONCRETE REMOVAL (FULL LANE WIDTH)

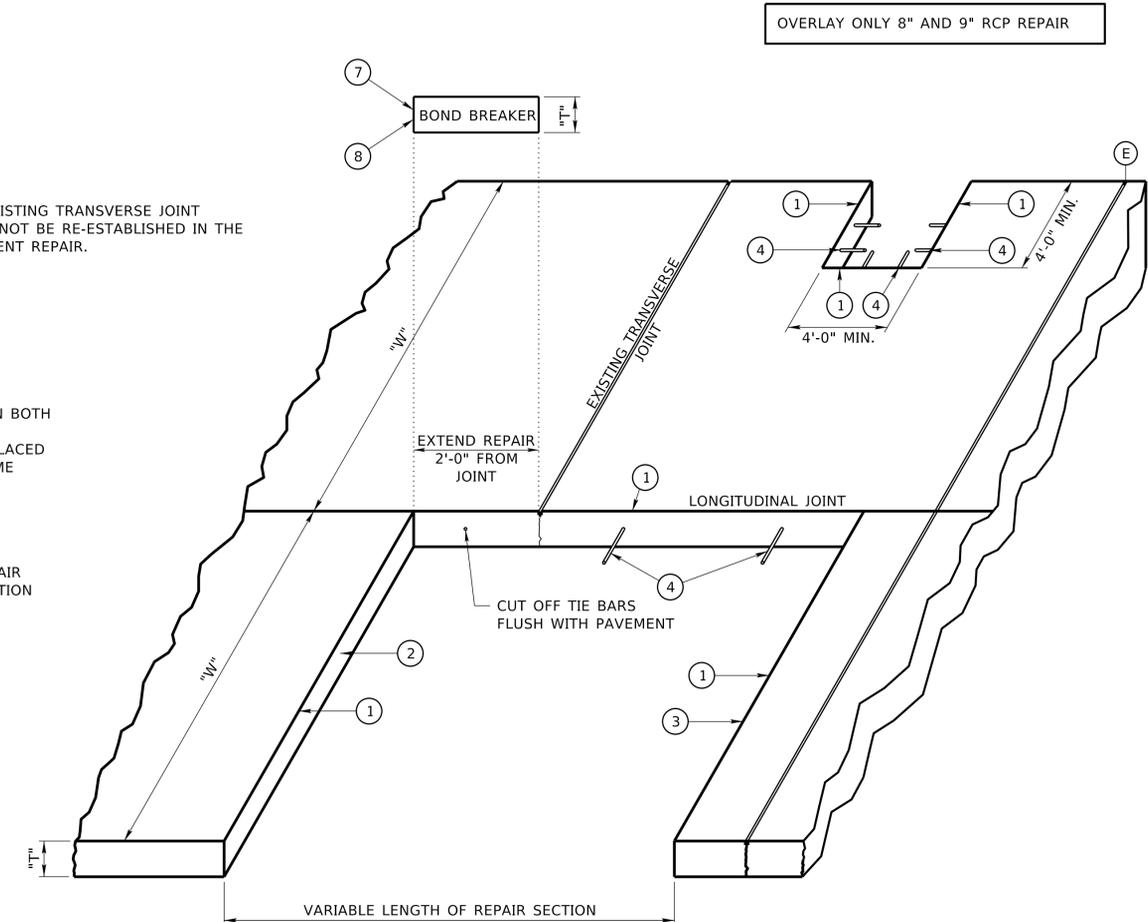
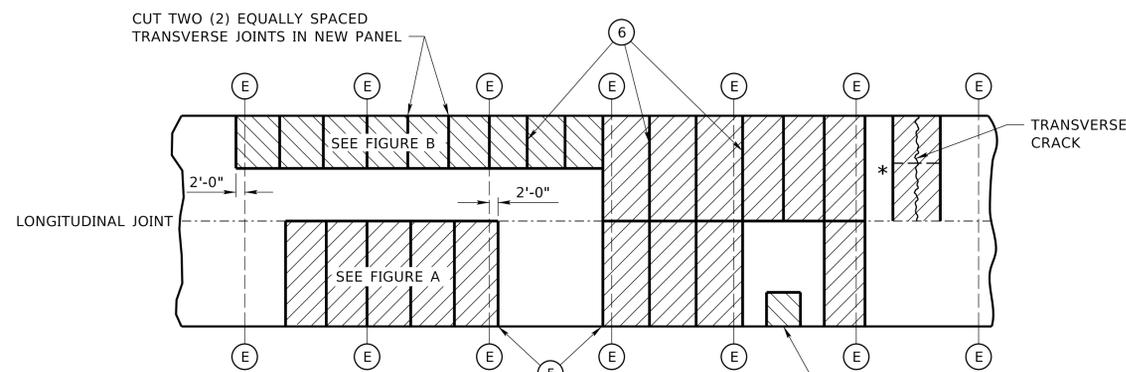


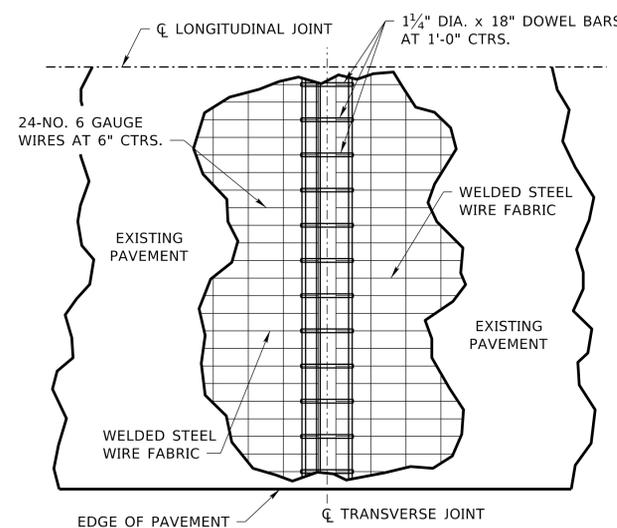
FIGURE A



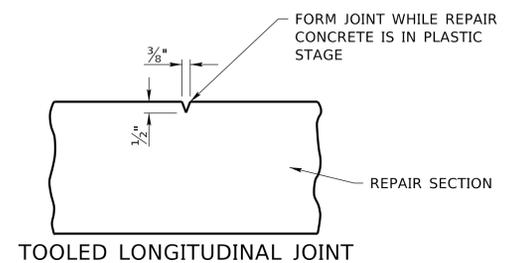
NOTE:
IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

SEE REPAIR TABLES (FULL DEPTH) FOR ACTUAL REPAIR DIMENSIONS

8" AND 9" REINFORCED CONCRETE PAVEMENT REPAIR



EXISTING 8" AND 9" REINFORCED CONCRETE PAVEMENT (RCP)



TOOLED LONGITUDINAL JOINT

NOTES:
*THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.

A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.

NOTE:
FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.

PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

- ① FULL DEPTH DIAMOND SAW CUT.
- ② INSTALL DOWEL BARS AT NEW TRANSVERSE JOINT NEAREST TO EXISTING TRANSVERSE JOINT.
- ③ INSTALL TIE BARS AT NEW TRANSVERSE JOINT OPPOSITE OF DOWEL BARS. MINIMUM 2-TIE BARS PER SIDE.
- ④ TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.
- ⑤ IN THE CASE OF PANEL REPLACEMENT, DOWEL BARS SHALL BE INSTALLED 2'-0" BEYOND THE EXISTING TRANSVERSE JOINTS. (3-DOWEL BARS PER WHEEL PATH).
- ⑥ IN THE CASE OF MULTIPLE PANEL REPLACEMENTS, DOWEL BARS SHALL BE INSTALLED AT 12" CENTERS, AS SHOWN IN THE STANDARD PLANS. BASKETS SHALL BE USED ACCORDING TO THE STANDARD SPECIFICATIONS, SUBSECTION 603.03.
- ⑦ LONGITUDINAL JOINT BOND BREAKER COMPOSED OF A 30 LB. NON-PERFORATED BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT.
- ⑧ BOND BREAKER WILL BE INSTALLED ON THE LONGITUDINAL JOINT BETWEEN THE NEW DOWELED JOINT AND THE EXISTING TRANSVERSE JOINT.

OVERLAY ONLY DOWELED CONCRETE PAVEMENT REPAIR

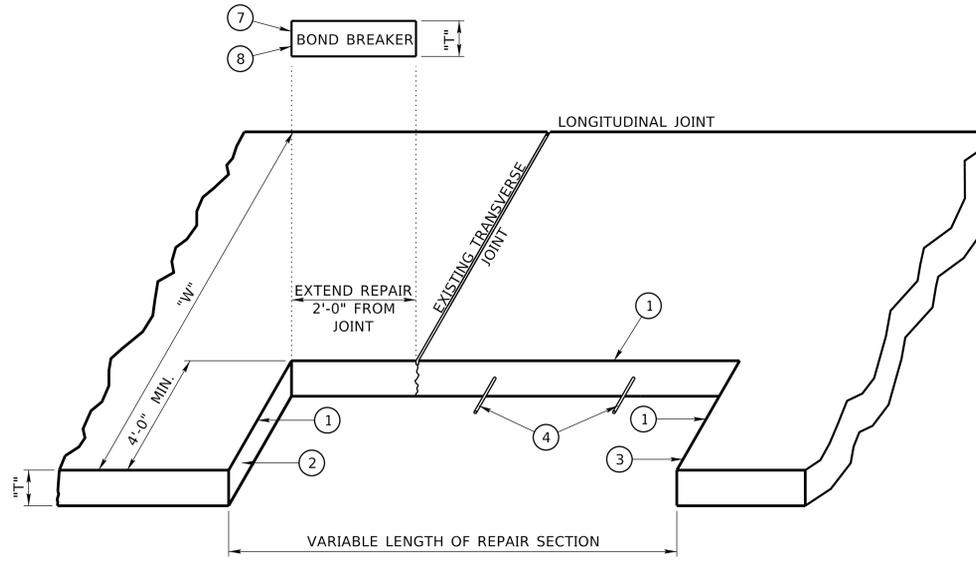


FIGURE B

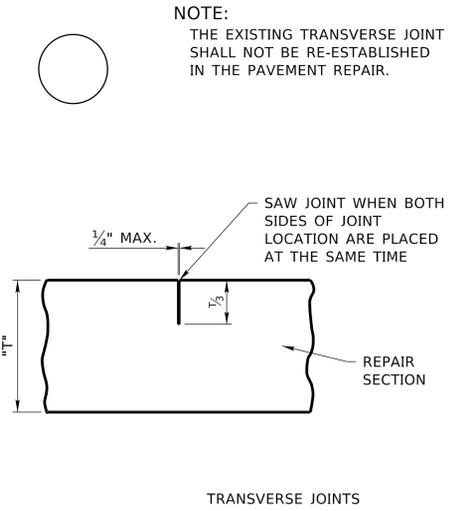
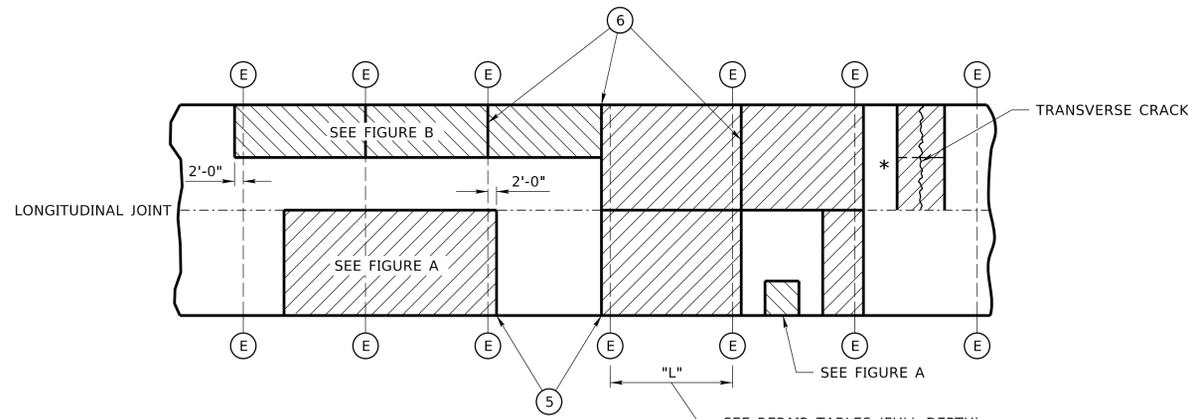


FIGURE A

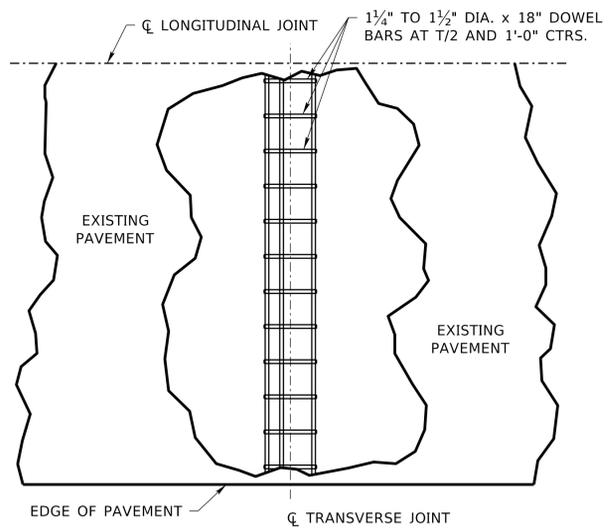
LEGEND

- "W" WIDTH OF PANEL
- "L" LENGTH OF PANEL
- "T" THICKNESS OF CONCRETE
- (E) EXISTING TRANSVERSE JOINT
- [Hatched Box] CONCRETE REMOVAL (PARTIAL LANE WIDTH)
- [Hatched Box] CONCRETE REMOVAL (FULL LANE WIDTH)



NOTE:
IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

DOWELED CONCRETE PAVEMENT REPAIR



EXISTING DOWELED CONCRETE PAVEMENT

NOTE:
FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.

PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

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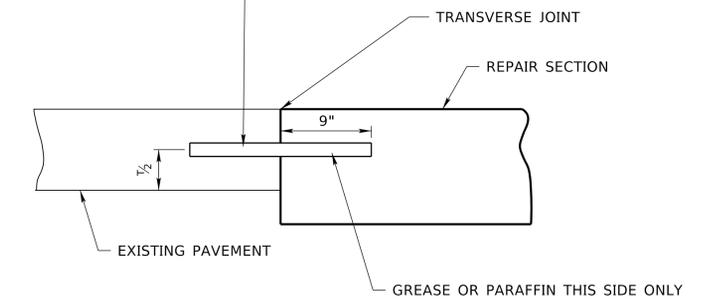
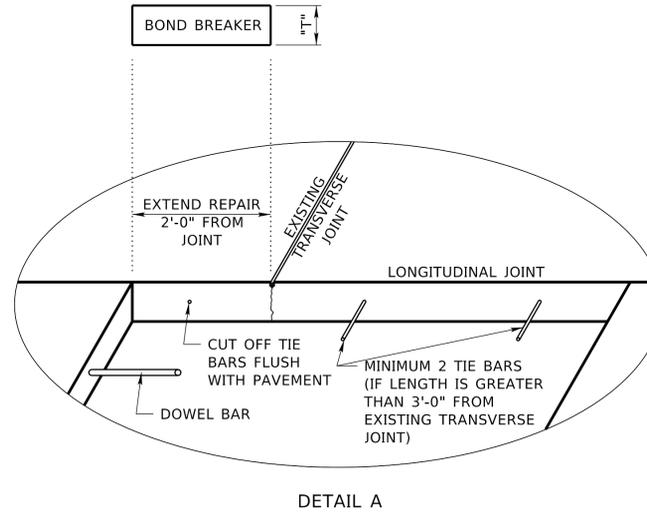
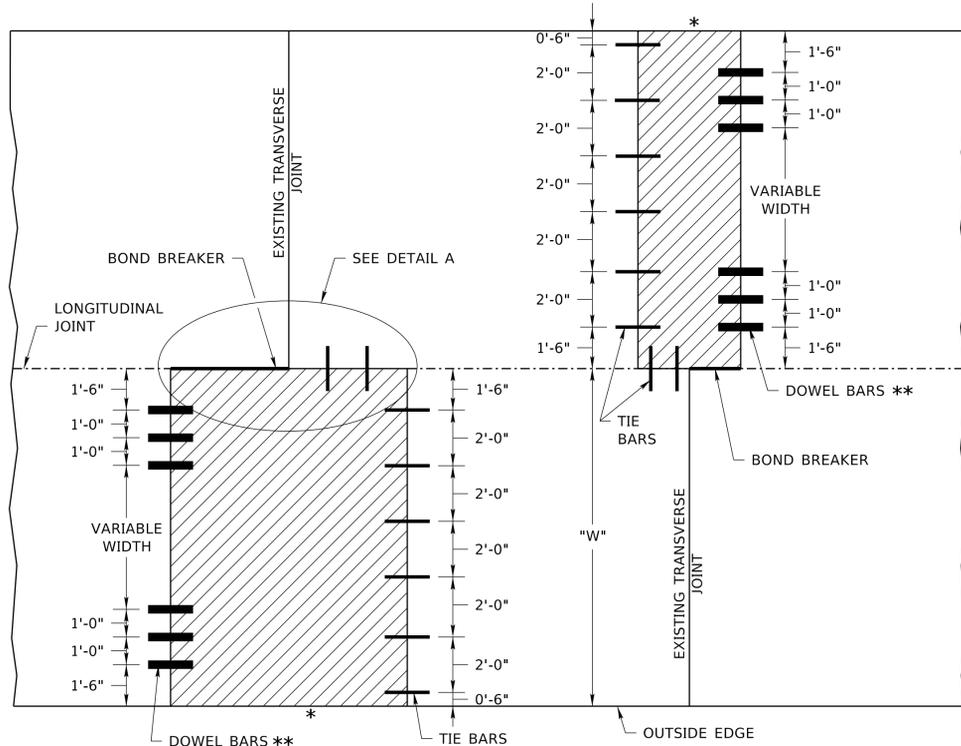
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LONGITUDINAL JOINT BOND BREAKER
COMPOSED OF A 30 LB. NON-PERFORATED
BLACK FELT AT FULL DEPTH LONGITUDINAL JOINT.

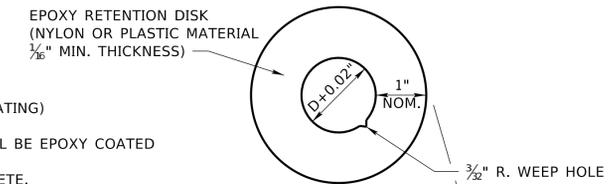
BOND BREAKER WILL BE INSTALLED ON
THE LONGITUDINAL JOINT BETWEEN THE
NEW DOWELED JOINT AND THE EXISTING
TRANSVERSE JOINT.

OVERLAY ONLY TIE AND DOWEL
PLACEMENT EXCLUDES 6" AND 7" PCC

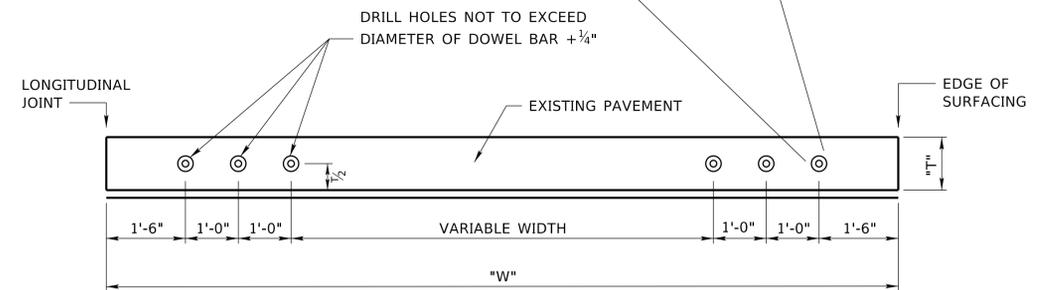
1 1/4" DIA. x 18" DOWEL BARS "T" = 8" TO 9".
1 1/2" DIA. x 18" DOWEL BARS "T" = 10" OR MORE
DOWEL BARS TO BE DRILLED AND EPOXIED
INTO EXISTING PAVEMENT. PLACE EPOXY RETENTION
DISK. SUPPORT DOWEL BARS IN HORIZONTAL
POSITION UNTIL EPOXY DRIES.



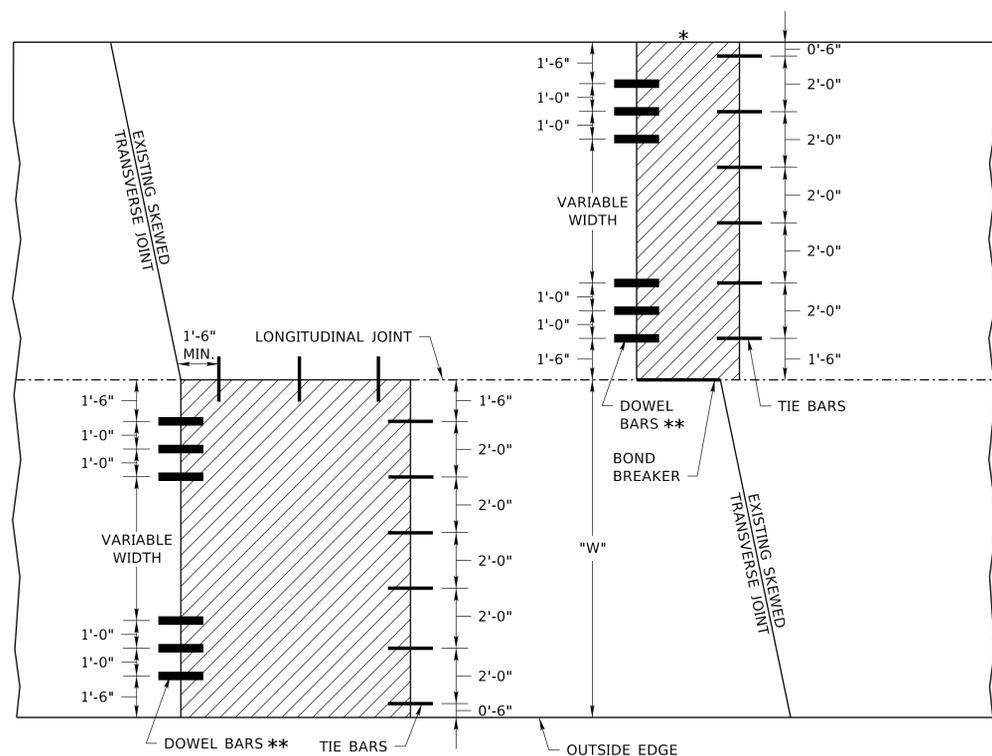
NOTE:
ALL STEEL DOWEL BARS WILL BE EPOXY COATED



NOTES:
D = DOWEL DIAMETER
(INCLUDING PROTECTIVE COATING)
ALL STEEL DOWEL BARS WILL BE EPOXY COATED
"T" = THICKNESS OF CONCRETE.



DOWEL BAR SPACING



* FOR EXISTING CONCRETE SHOULDERS, MATCH
BOND BREAKER ON OPPOSITE LONGITUDINAL
JOINT.

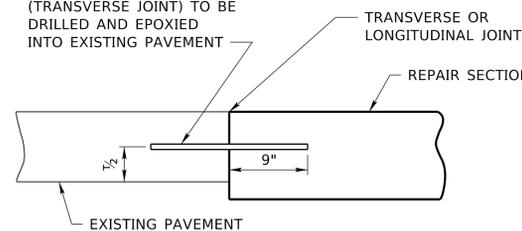
** INSTALL DOWEL BARS AT NEW TRANSVERSE
JOINT NEAREST TO EXISTING TRANSVERSE
JOINT.

*** WHERE THERE IS AN EXISTING CURB, PERPETUATE
THE CURB AS PART OF THE CONCRETE REPAIR.

NOTE:
BAR SPACING MAY VARY DEPENDING ON LANE WIDTH.

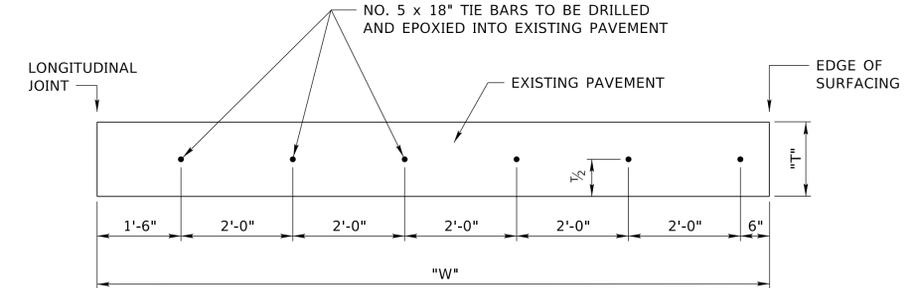
CONCRETE REMOVAL

NO. 5 x 18" TIE BARS AT 33" CTRS.
(LONGITUDINAL JOINT) AND 24" CTRS.
(TRANSVERSE JOINT) TO BE
DRILLED AND EPOXIED
INTO EXISTING PAVEMENT



NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.

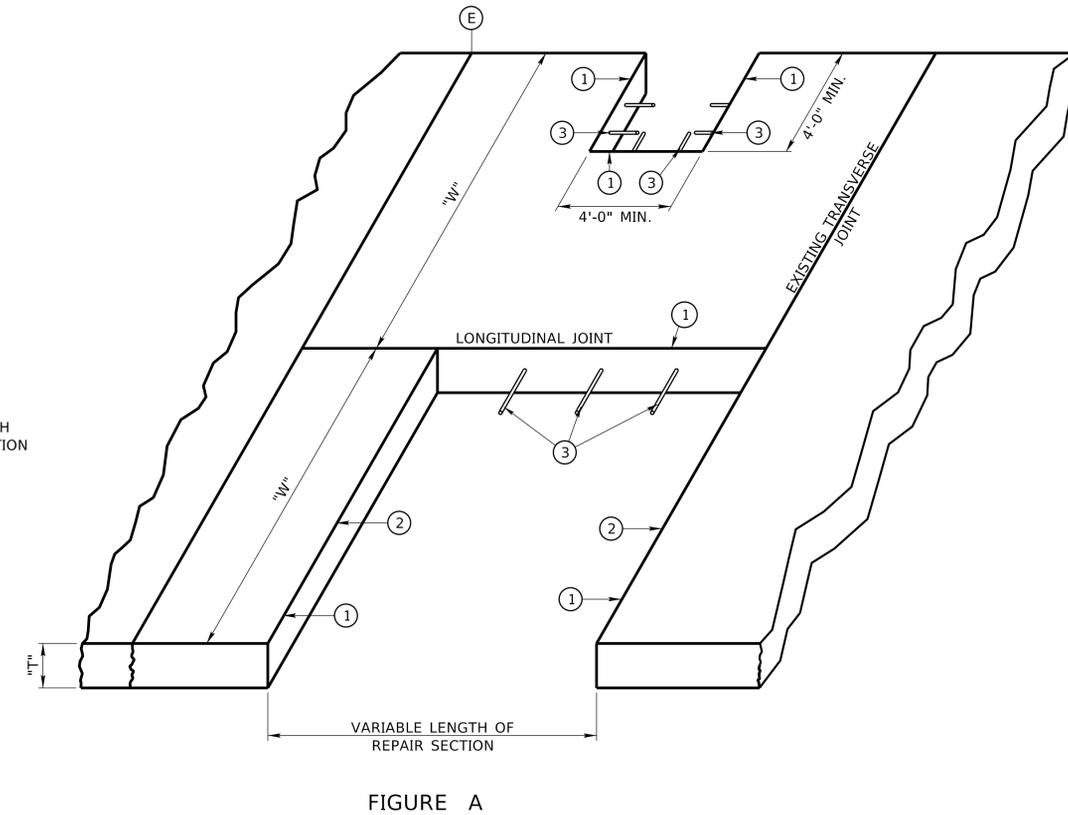
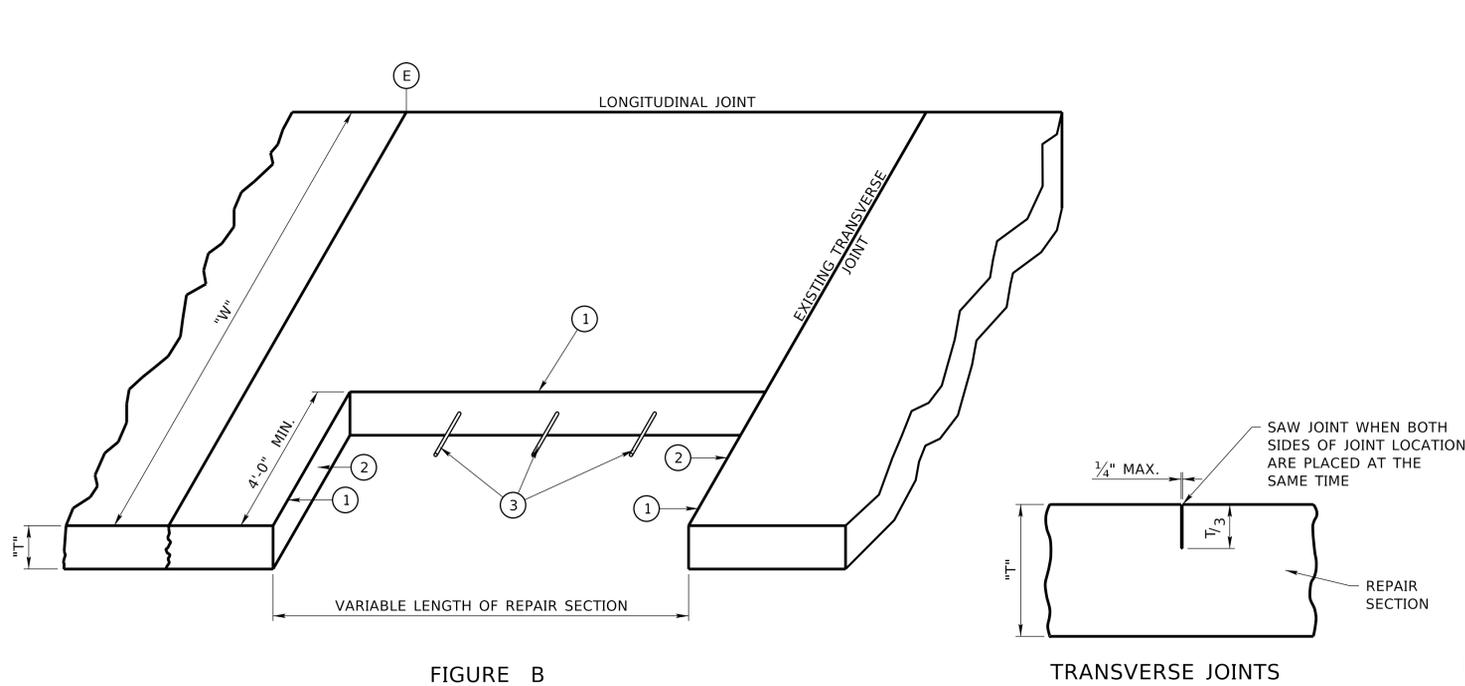
"T" = THICKNESS OF CONCRETE.



NOTE:
"T" = THICKNESS OF CONCRETE.

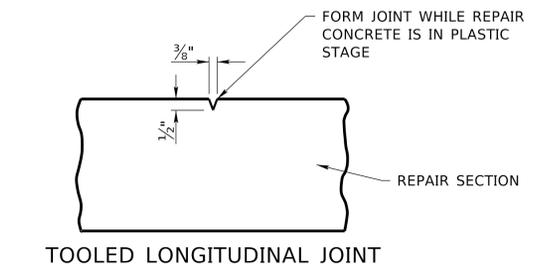
- ① FULL DEPTH DIAMOND SAW CUT. (FULL DEPTH 4" WHEEL CUTTER SAW CUT WILL BE PERMITTED IF REPAIR IS OVERLAID).
- ② INSTALL #5 TIE BARS AT NEW TRANSVERSE JOINT AT 2'-0" INTERVALS. MINIMUM 2-TIE BARS PER SIDE.
- ③ TIE BARS REQUIRED, MINIMUM 2-TIE BARS PER SIDE.

OVERLAY ONLY 6" AND 7" PLAIN CONCRETE PAVEMENT REPAIR



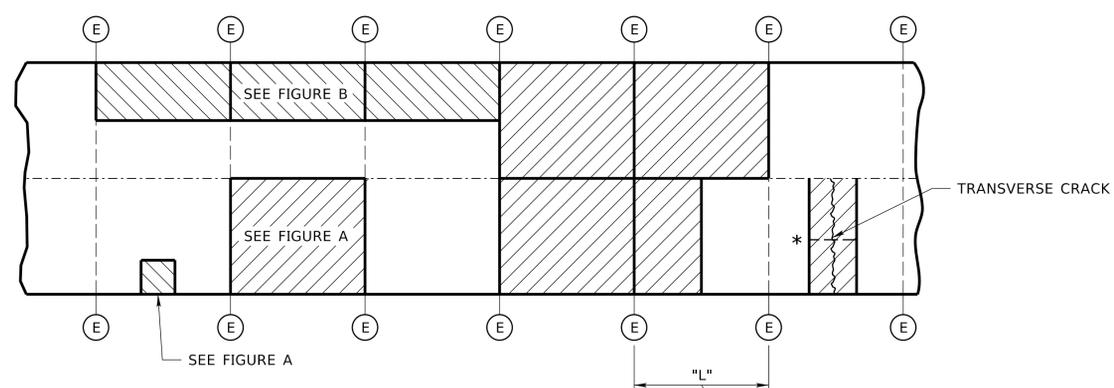
LEGEND

"W"	WIDTH OF PANEL
"L"	LENGTH OF PANEL
"T"	THICKNESS OF CONCRETE
(E)	EXISTING TRANSVERSE JOINT
[Hatched Box]	CONCRETE REMOVAL (PARTIAL LANE WIDTH)
[Diagonal Hatched Box]	CONCRETE REMOVAL (FULL LANE WIDTH)



NOTES:
 * THE LONGITUDINAL JOINT CANNOT BE WITHIN 3' OF PERMANENT PAVEMENT MARKINGS AND CANNOT BE WITHIN THE WHEEL PATH.
 A LONGITUDINAL JOINT IS REQUIRED WHEN THE WIDTH TO LENGTH RATIO OF THE REPAIR IS GREATER THAN 1.5.
OR:
 IF THE WIDTH OF PANEL ("W") WAS PREVIOUSLY WIDENED, CONSTRUCT A TOOLED LONGITUDINAL JOINT TO MATCH THE LONGITUDINAL JOINTS OF THE ADJOINING PANELS. SEE JOINT DETAIL FOR THIS TOOLED LONGITUDINAL JOINT.

NOTE:
 FOR PAVEMENT REPAIR LOCATIONS, SEE SHEET C.



NOTE:
 IF PAVEMENT REPAIR SHOULD EXTEND THROUGH INTEGRAL CURB, THE NEW CURB SHALL BE CONSTRUCTED TO THE SAME DIMENSIONS AS THE EXISTING CURB.

SEE REPAIR TABLES (FULL DEPTH) FOR ACTUAL REPAIR DIMENSIONS

PLAIN CONCRETE PAVEMENT REPAIR

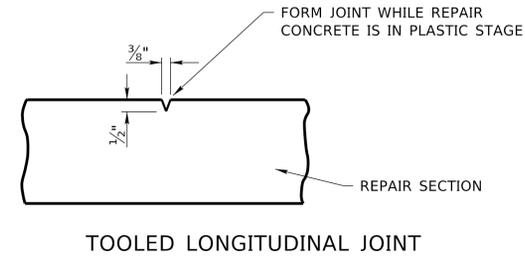
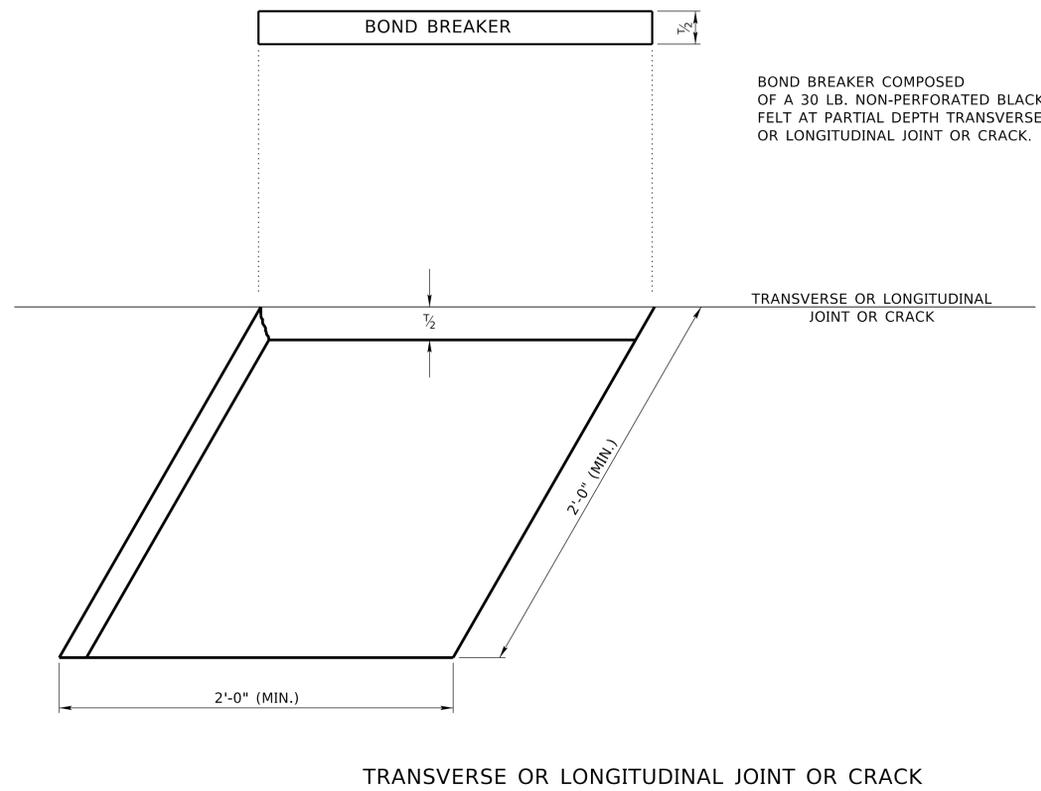
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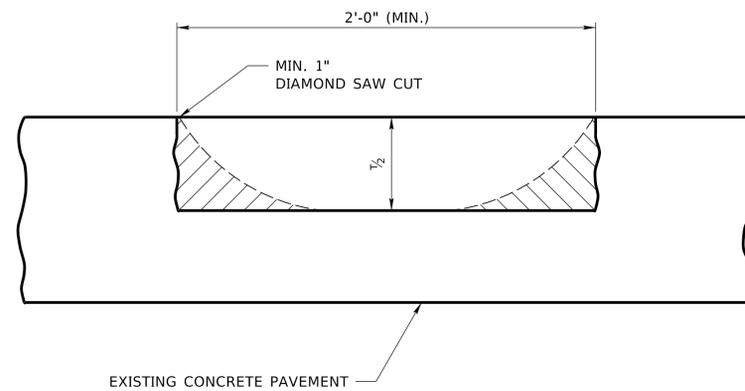
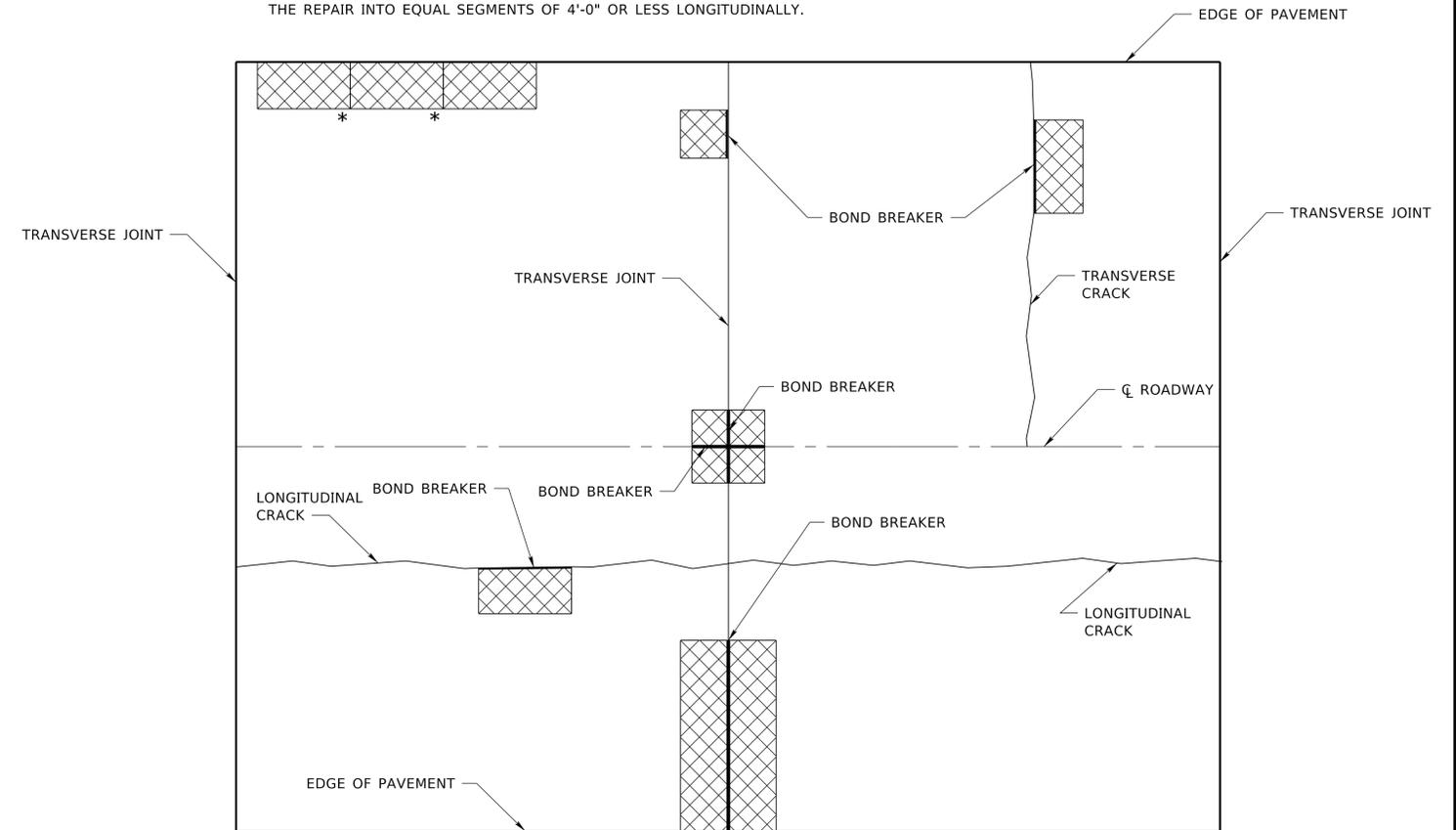
PAVEMENT REPAIR (OVERLAY)
 STANDARD TYPICAL CROSS SECTIONS

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OVERLAY ONLY PARTIAL DEPTH REPAIR



* IF PARTIAL DEPTH REPAIR IS LONGER THAN 4'-0" LONGITUDINALLY, TOOLED TRANSVERSE JOINTS SHALL BE MADE PERPENDICULAR TO CENTERLINE. THESE TOOLED JOINTS SHALL BE LOCATED TO DIVIDE THE REPAIR INTO EQUAL SEGMENTS OF 4'-0" OR LESS LONGITUDINALLY.



INDICATES MATERIAL LEFT AT MARGINS OF MILLED CUTS TO BE REMOVED WITH A 15# MAXIMUM CHIPPING HAMMER TO PROVIDE VERTICAL EDGES ALL AROUND.

TYPICAL SECTION OF PARTIAL DEPTH REPAIRS

NOTE:
T = THICKNESS OF CONCRETE.

CONCRETE REPAIR SECTIONS

CONCRETE PAVEMENT REPAIR, TYPE "A", TYPE "B" AND TYPE "C", PARTIAL DEPTH

NOTE:
FOR CONCRETE PAVEMENT REPAIR (PARTIAL DEPTH) LOCATIONS, SEE SHEET C.

PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

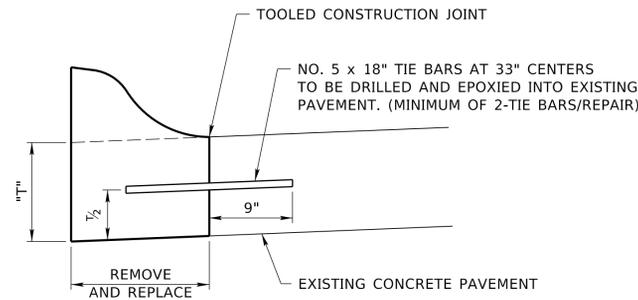
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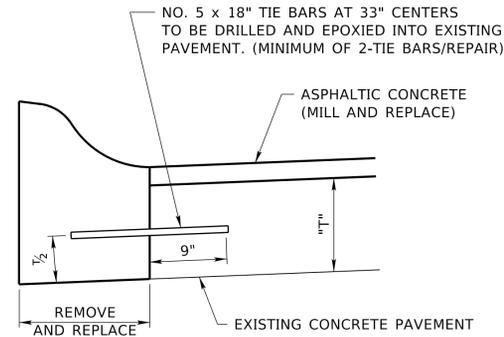
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INTEGRAL CURB REPAIR

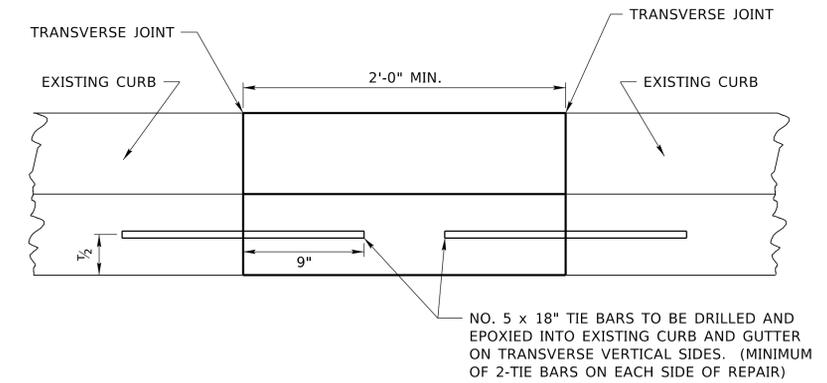
NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.
"T" = THICKNESS OF CONCRETE.



INTEGRAL CURB REPAIR

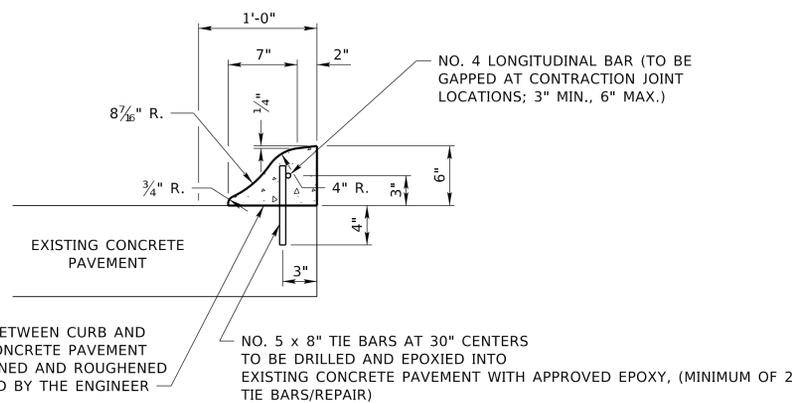
NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.
"T" = THICKNESS OF CONCRETE.

OVERLAY ONLY CURB REPAIR



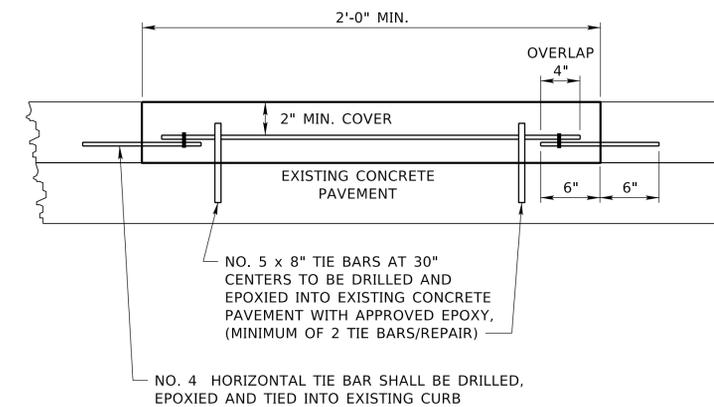
CONCRETE CURB REPAIR

NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.
"T" = THICKNESS OF CONCRETE.



CONCRETE TACK-ON CURB REPAIR

NOTES:
ALL STEEL TIE BARS WILL BE EPOXY COATED ALL VERTICAL TIE BARS SHALL BE TIED TO ALL HORIZONTAL TIE BARS
CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH LOCATION OF EXISTING TRANSVERSE JOINTS



FRONT VIEW OF TACK-ON CURB REPAIR

NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.

PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

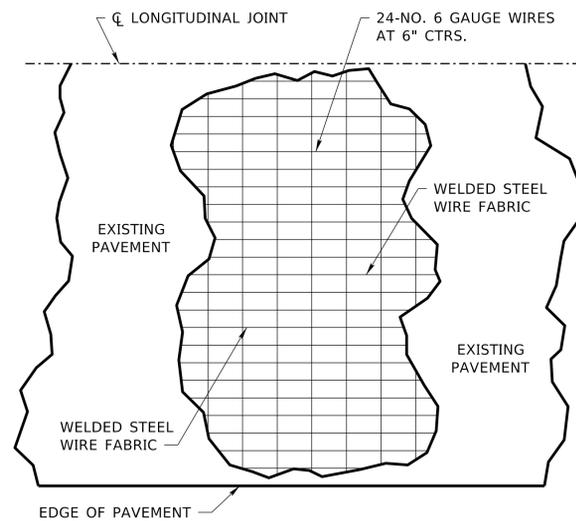
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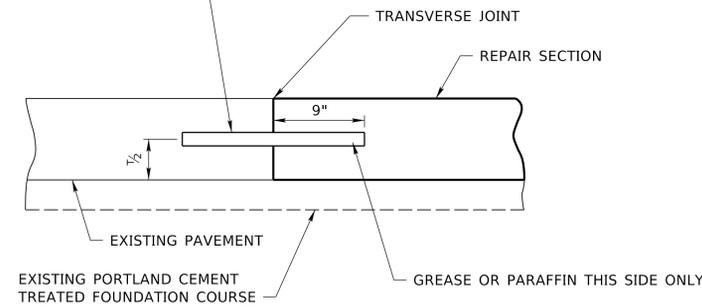
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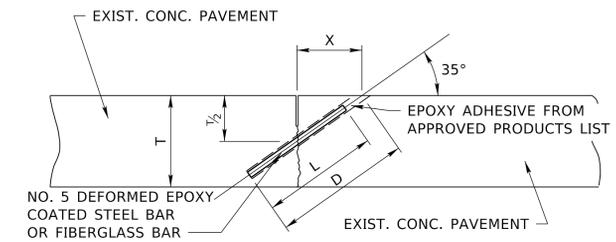
EXISTING 9"-6"-9" AND 9"-7"-9" REINFORCED PAVEMENT

1 1/4" DIA. x 18" DOWEL BARS "T" = 8" TO 9",
1 1/2" DIA. x 18" DOWEL BARS "T" = 10" OR MORE
DOWEL BARS TO BE DRILLED AND EPOXIED INTO
EXISTING PAVEMENT. PLACE EPOXY RETENTION
DISK. SUPPORT DOWEL BARS IN HORIZONTAL
POSITION UNTIL EPOXY DRIES.



DOWEL BAR

NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.

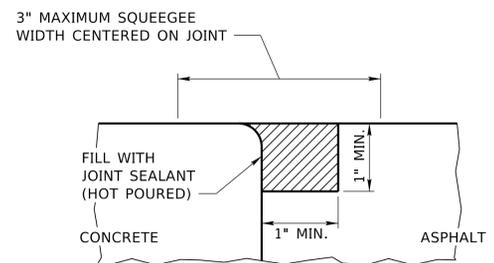
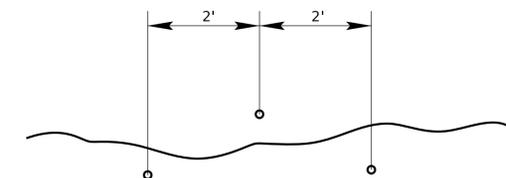


CROSS STITCHING
EXISTING CONCRETE PAVEMENT
(SEE SHEET C FOR LOCATIONS)

"T"	"X"	"D"	"L"
8.0"	5.7"	11.9"	9.8"
9.0"	6.5"	13.5"	11.5"
10.0"	7.0"	14.0"	12.5"
11.0"	8.0"	16.0"	13.0"
12.0"	8.5"	17.5"	14.0"
13.0"	9.5"	20.0"	18.0"
14.0"	10.0"	21.0"	18.0"

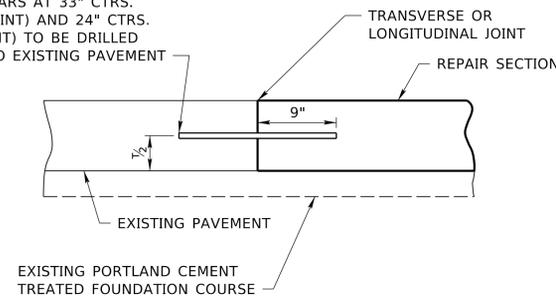
NOTE:
DEFORMED BAR SHALL BE 1" BELOW THE SURFACE
AND SPACED AT 2'-0" INTERVALS ON OPPOSITE SIDES OF THE
CRACK OR JOINT.

BOREHOLE AND DEFORMED BAR SHALL NOT EXTEND THROUGH
BOTTOM OF CONCRETE SLAB.



LONGITUDINAL JOINT SEALING DETAIL
(ASPHALT TO CONCRETE)

NO. 5 x 18" TIE BARS AT 33" CTRS.
(LONGITUDINAL JOINT) AND 24" CTRS.
(TRANSVERSE JOINT) TO BE DRILLED
AND EPOXIED INTO EXISTING PAVEMENT



TIE BAR

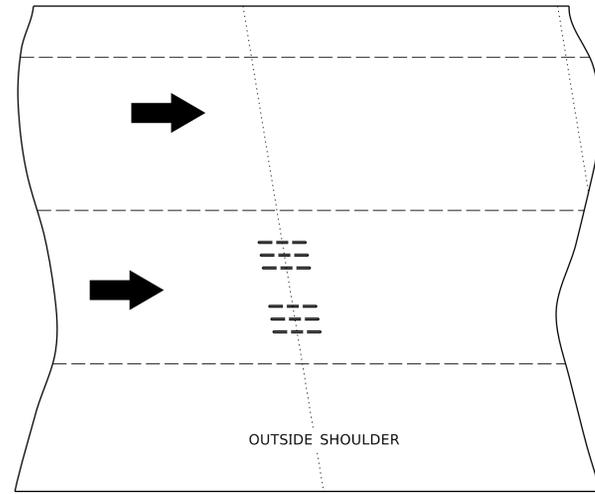
NOTE:
ALL STEEL TIE BARS WILL BE EPOXY COATED.

"T" = THICKNESS OF CONCRETE.

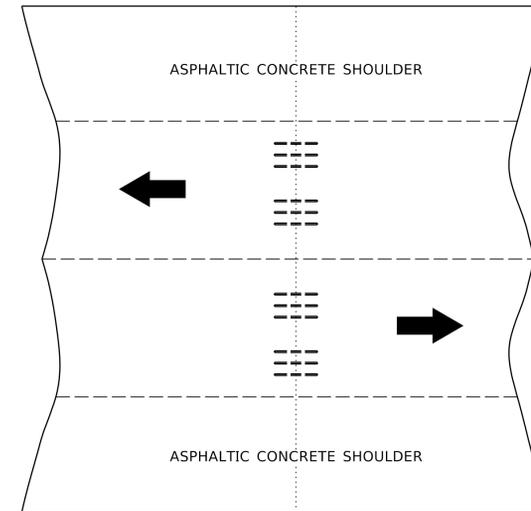
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DETAIL OF EXISTING DOWEL BAR RETROFIT - DRIVING LANE ONLY
FOR INFORMATION ONLY



DETAIL OF EXISTING DOWEL BAR RETROFIT - DRIVING LANES ONLY
(FOR INFORMATION ONLY)

NOTE:
TRANSVERSE JOINT SPACING AT 16'-6".

PAVEMENT REPAIR (OVERLAY)
STANDARD TYPICAL CROSS SECTIONS

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