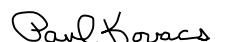


Tollway Standard Drawing Revisions

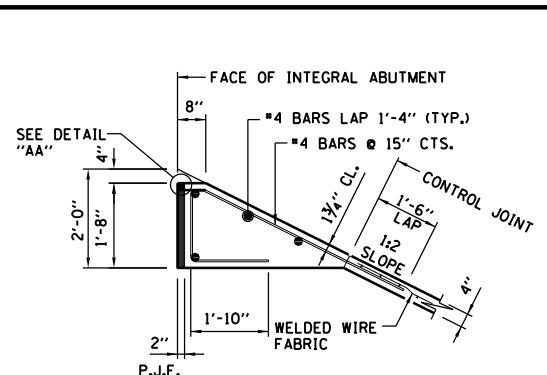
Section G	Structural	Effective 03/01/2013
Standard	Modification Summary	
All Sheets	Illinois Tollway Standard Logo Inserted In Title Block.	
G1	Limits of Structure Excavation and Embankment Cone Details Deleted-Sheet: Reserved	
G2	Slopewall Details Revised Slopewall Details Deleted Vaulted Abutment Detail Added Integral -Semi Integral Abutment Details Added Tollway Bridges Over Railroads	
G10	Approach Slab to JPC Pavement, Mainline Sheets 1-5 Lane 1 (14'-0"), Lane 2 (12'-0"), Lane 3 (13'-0") Median (17'-6"), Outside Shoulder (11'-0")	

New Sheet

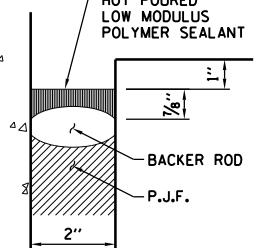
RESERVED


APPROVED
CHIEF ENGINEER
DATE 6-1-2009

	RESERVED
	STANDARD G1-00

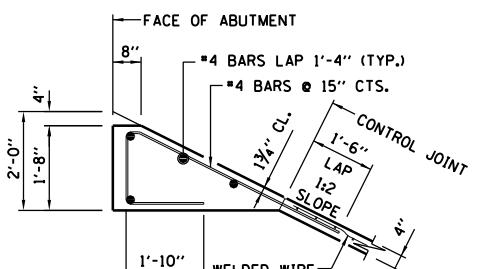


DETAIL "AA"

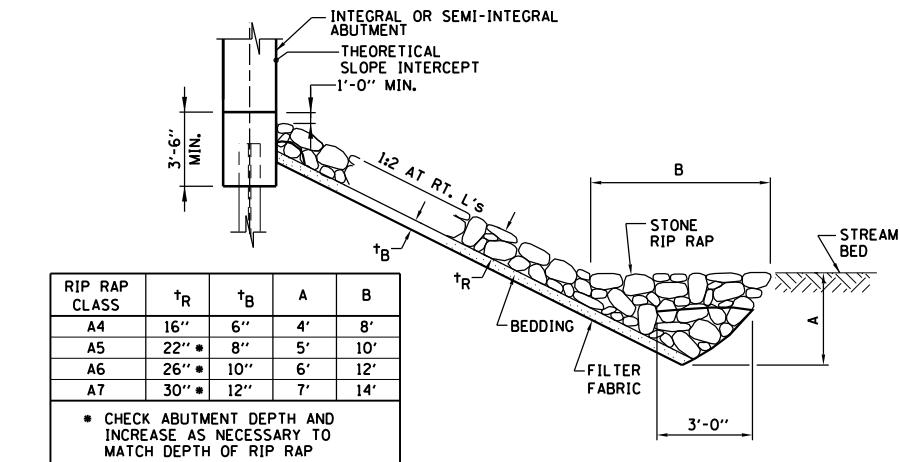
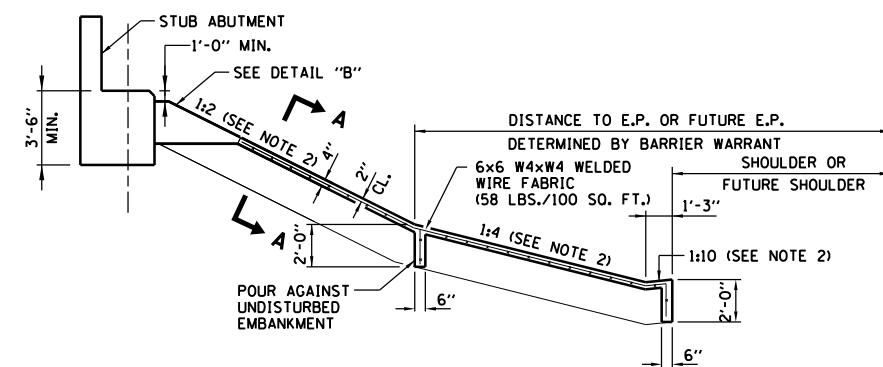


DETAIL "AA"

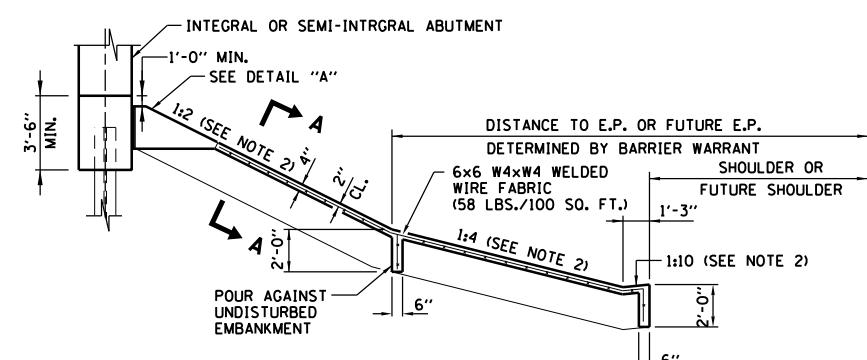
NOTE:
SEALANT, BACKER ROD AND P.J.F. SHALL MEET THE REQUIREMENTS OF SECTIONS 1050 AND 1051 OF THE IDOT STANDARD SPECIFICATIONS.



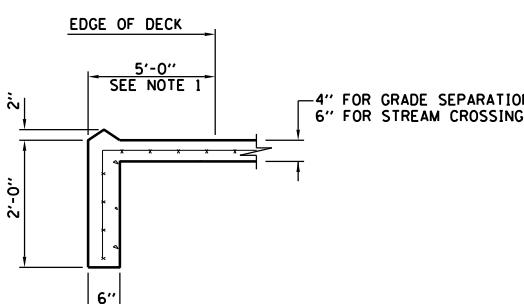
DETAIL "B"



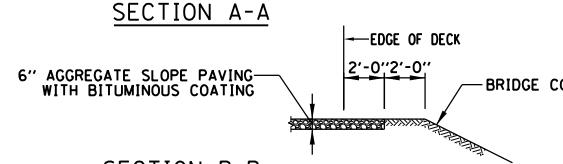
TOLLWAY BRIDGES OVER WATERWAYS



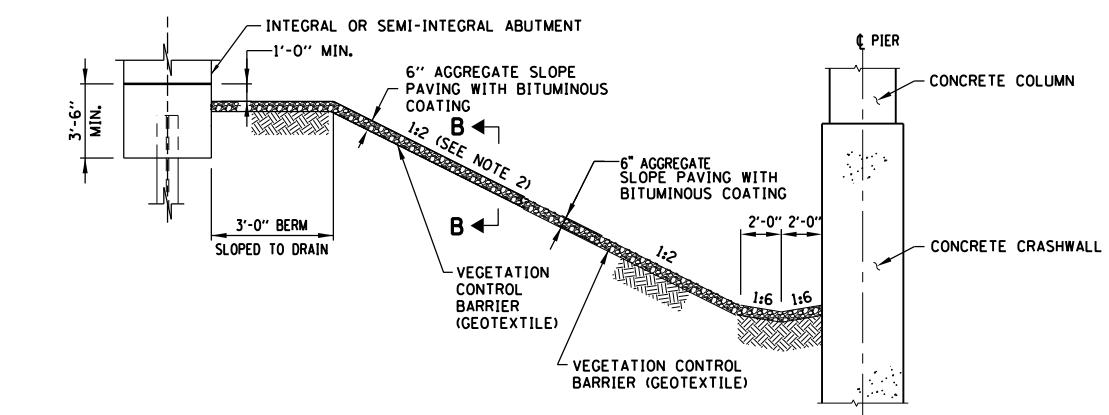
SLOPE WALLS FOR BRIDGES OVER TOLLWAY



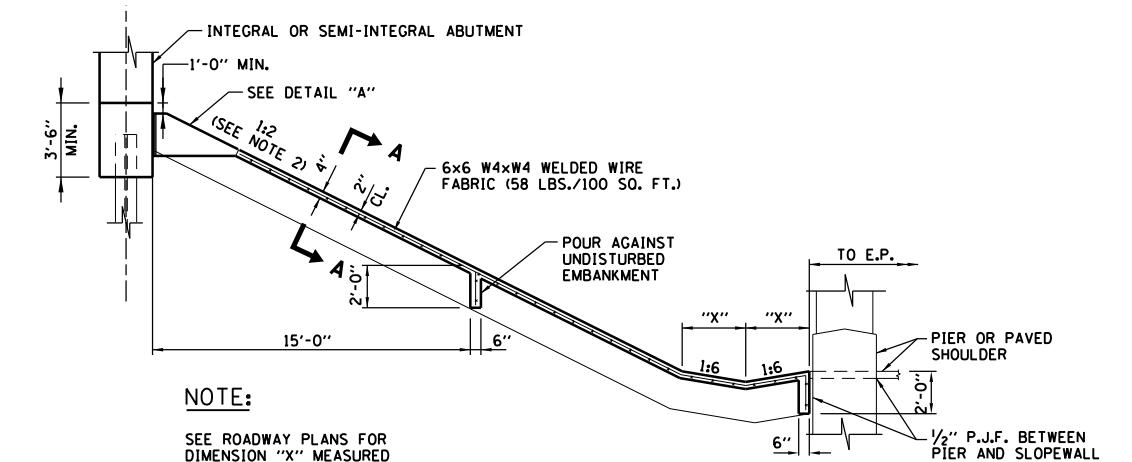
SECTION A-A



SECTION B-B



TOLLWAY BRIDGES OVER RAILROADS



TOLLWAY BRIDGES OVER CROSSROADS

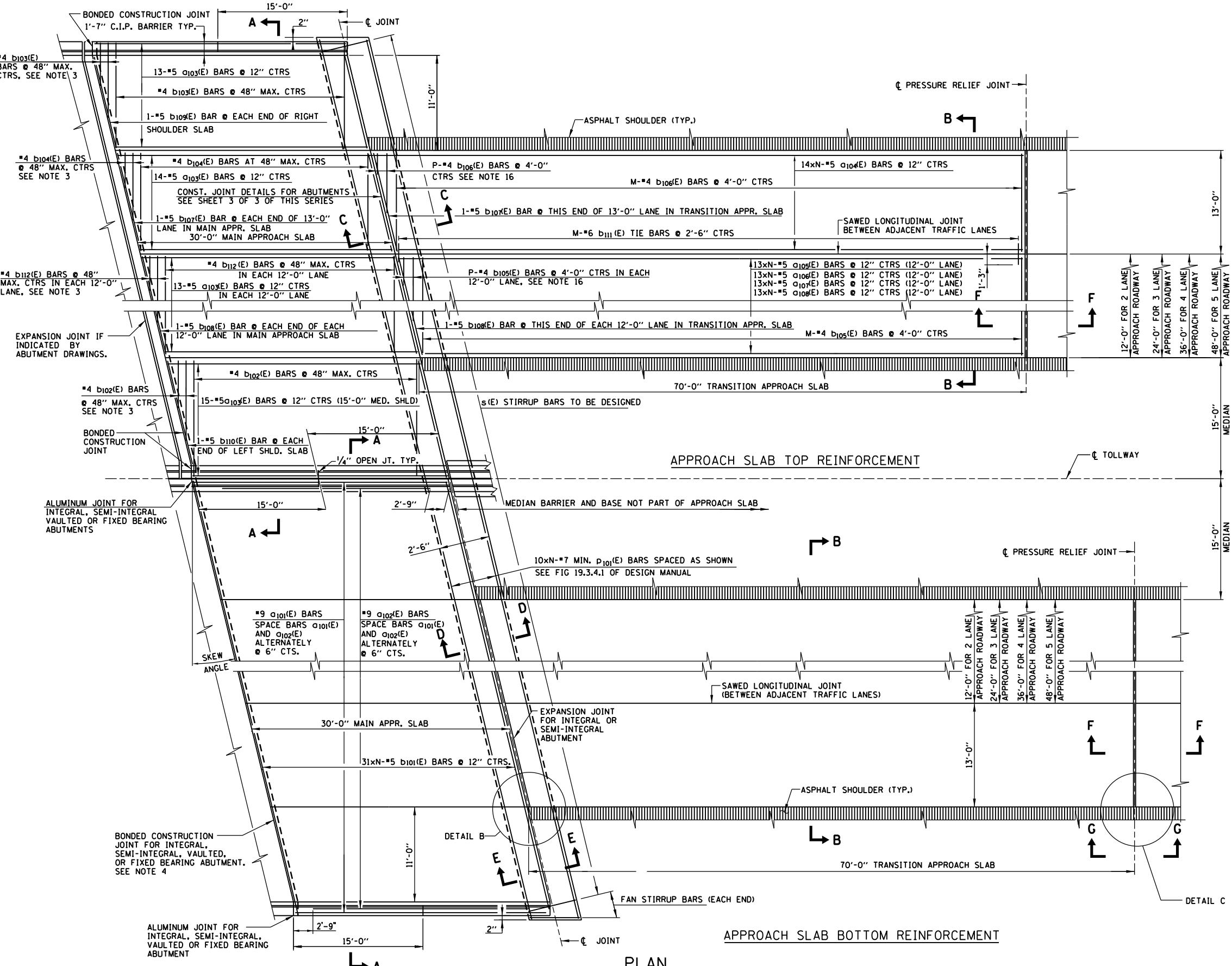
NOTES:

1. DIMENSIONS SHALL BE 2'-0" IF DECK DRAINS ARE NOT PROVIDED.
2. DIMENSIONS MARKED THUS ARE MEASURED NORMAL TO E.P.
3. ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

DATE	REVISIONS
6-1-2009	REVISED NOTES
3-1-2013	REVISED NOTES, REVISED SLOPEWALL DETAILS, ADDED INTEGRAL AND SEMI-INTEGRAL ABUTMENT DETAILS

SLOPEWALL DETAILS

STANDARD G2-02



NOTES:

1. TILT HOOK OF #9 BARS FOR MINIMUM 3½" CLEARANCE.
2. USE 1'-4" MIN. LAP FOR #4 BARS. USE 1'-8" MIN. LAP FOR #5 BARS.
3. CUT REINFORCEMENT IN THE FIELD TO FIT THE SKEW AND USE REMAINDER IN OPPOSITE END.
4. SAW CUT $\frac{3}{8}$ " x 2" DEEP JOINT AND FILL WITH HOT POURED, LOW MODULUS, POLYMER SEALANT MEETING THE REQUIREMENTS OF ASTM D3405.
5. PROTECTIVE COAT SHALL BE APPLIED TO TOP AND TRAFFIC FACES OF MEDIAN AND OUTSIDE BARRIERS.
6. TOOL EDGES OF EXPANSION AND PRESSURE RELIEF JOINTS TO $\frac{1}{4}$ " RADIUS.
7. REINFORCING BARS SHALL MEET THE REQUIREMENTS OF AASHTO M31 (ASTM A615), GRADE 60, AND SHALL CONFORM TO SECTION 508 OF THE IDOT STANDARD SPECIFICATIONS.
8. REINFORCING BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
9. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 315, LATEST EDITION.
10. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
11. EXPOSED CONCRETE EDGES SHALL HAVE $\frac{3}{4}$ " x 45° CHAMFERS. CHAMFERS ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW GROUND LEVEL.
12. CONCRETE BARRIERS SHALL BE CONSTRUCTED & PAID FOR IN ACCORDANCE WITH SECTIONS 503, 508, AND 587 OF THE IDOT STANDARD SPECIFICATIONS.
13. WORK THIS STANDARD WITH STANDARD G4 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 5 LANES) AND STANDARD G5 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 4 LANES).
14. THE NOTATION MxN-#4 a FOR REINFORCING BARS IS DEFINED AS M LINES OF BARS WITH N LENGTHS PER LINE. FOR SCHEDULE OF REINFORCING BAR VARIABLE BILLINGS, SEE STANDARD G4 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 5 LANES) AND STANDARD G5 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 4 LANES).
15. THE NUMBER OF BARS "P" IS GIVEN IN THE SCHEDULE OF REINFORCING BAR VARIABLE BILLINGS ON STANDARD G4 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 5 LANES) AND STANDARD G5 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 4 LANES).
16. CUT REINFORCEMENT IN THE FIELD TO FIT SKEW AND PLACE REMAINDER IN ADJACENT AREA OR DISCARD OFF SITE.
17. IN THE CORNERS OF THE PILE BENT, THE CONCRETE SHALL BE BLOCKED OUT AND THE REINFORCING STEEL SHALL BE RESPACED (OR CUT) FOR GUARDRAIL POSTS, DRAINAGE STRUCTURES, NOISE ABATEMENT WALLS, ETC. AS NECESSARY AND AS APPROVED BY THE ENGINEER.
18. IN REFERENCE TO LONGITUDINAL CONSTRUCTION JOINTS ON SHEET 2 (OF 3) OF THIS SERIES; THESE BARS SHALL BE CUT TO FIT FROM LENGTHS SHOWN IN THE REINFORCING BAR SCHEDULE FOR THE CONSTRUCTION JOINT. THESE BARS MAY BE REPLACED BY ALTERNATIVE BARS AND LENGTHS AS SHOWN IN THE DESIGN PLANS.
19. EXPANSION ANCHORS AND DRILLED AND GROUTED DOWELS SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
20. AS APPROVED BY THE ENGINEER, THE CONTRACTOR MAY ELECT TO REDUCE THE WIDTHS OF THE POUR BY USE OF THE OPTIONAL LONGITUDINAL CONSTRUCTION JOINT SHOWN. JOINTS SHALL BE LOCATED AT THE EDGE OF A TRAFFIC LANE.

SHEET 1 OF 3



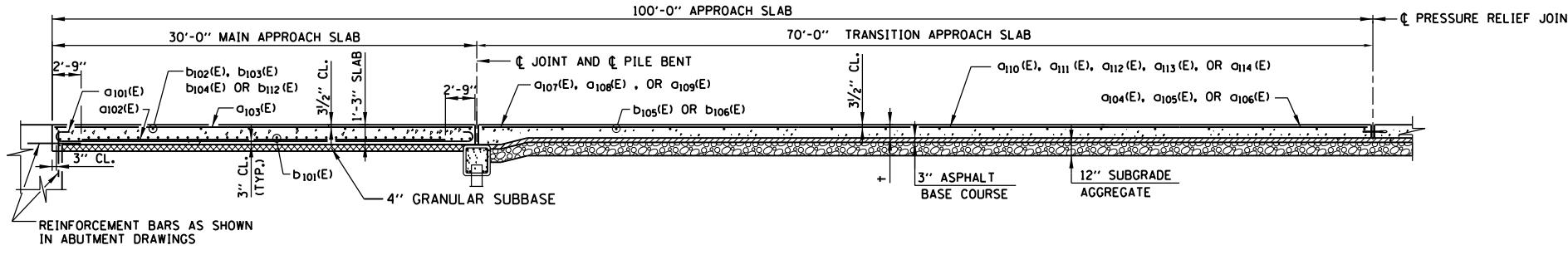
DATE	REVISIONS
2-28-2008	PILE BENT
6-1-2009	REVISED MEDIAN DIMENSION, ADDED SUBBASE
	MATERIAL UNDER MAIN APPROACH SLAB
	ADDED BOND BREAKER NOTE SECTION A-A

APPROACH SLAB TO J.P.C.
PAVEMENT, MAINLINE

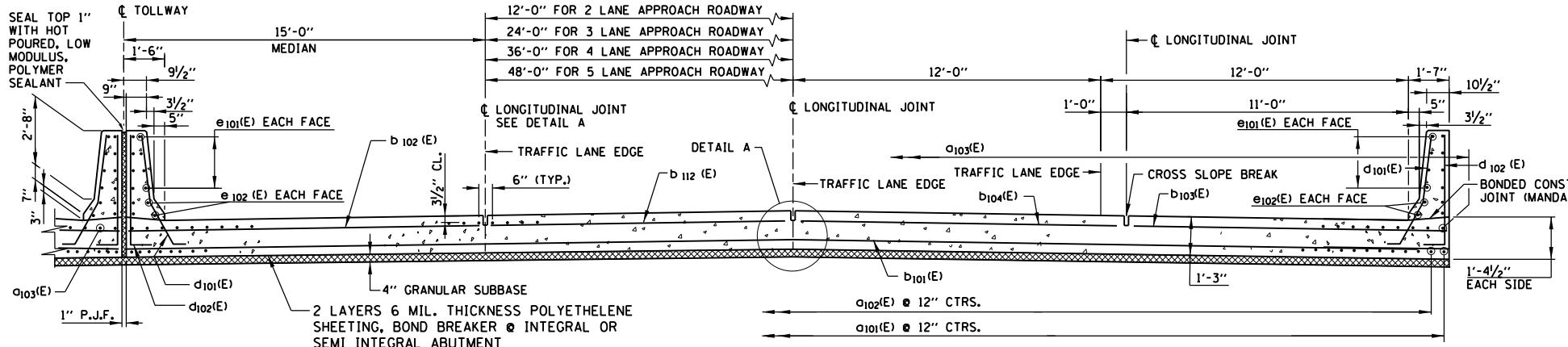
STANDARD G3-02

Paul Kovacs

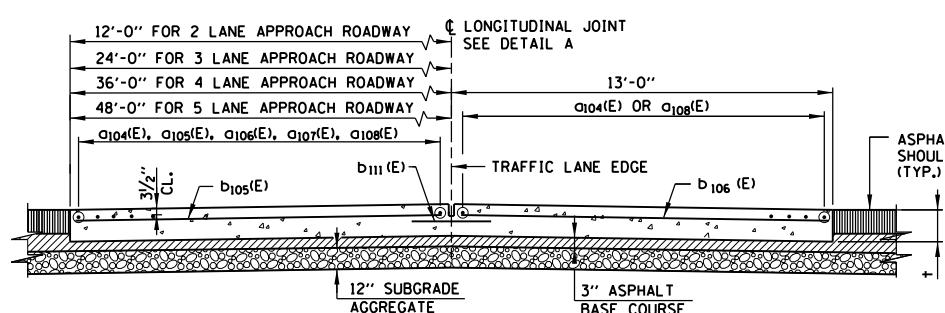
APPROVED
CHIEF ENGINEER
DATE 2-28-2008



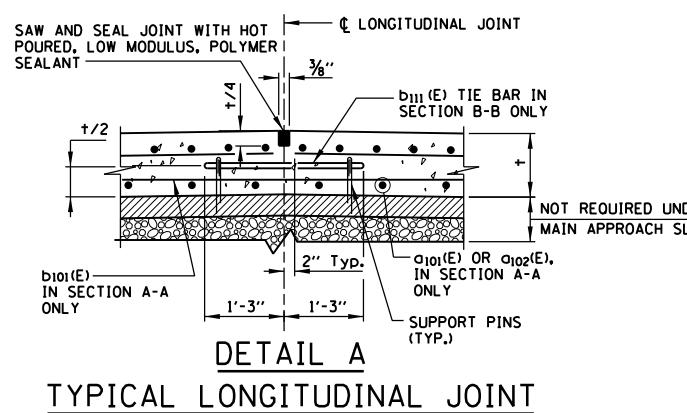
LONGITUDINAL CROSS SECTION



SECTION A-A

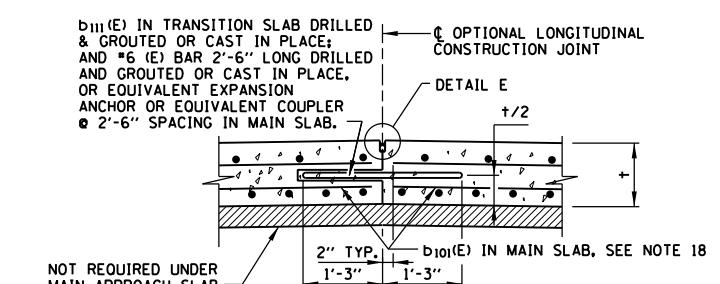


SECTION B-B

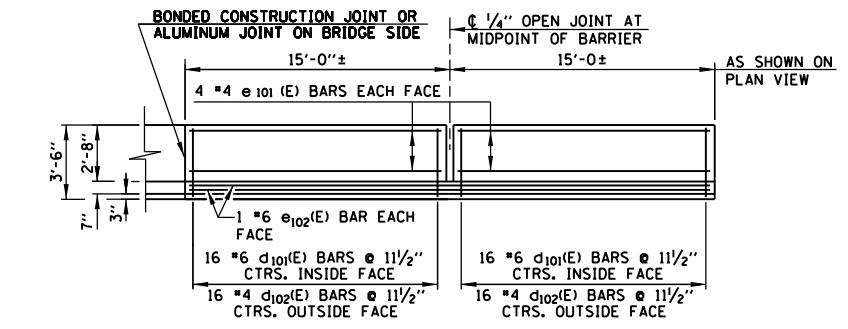


TYPICAL LONGITUDINAL JOINT

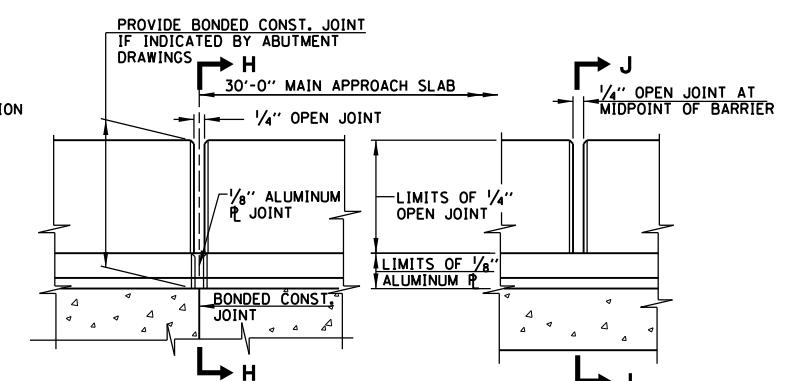
CROSS SECTION THRU OPTIONAL LONGITUDINAL CONSTRUCTION JOINT BETWEEN TRAFFIC LANES



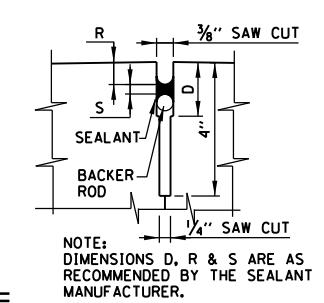
CROSS SECTION THRU LONGITUDINAL JOINT WITH OPTIONAL CONSTRUCTION JOINT



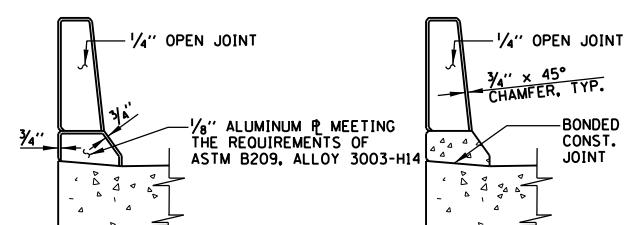
BARRIER ELEVATION



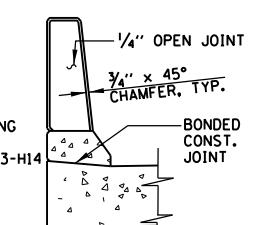
ELEVATION DETAIL OF BARRIER JOINTS



DETAIL E



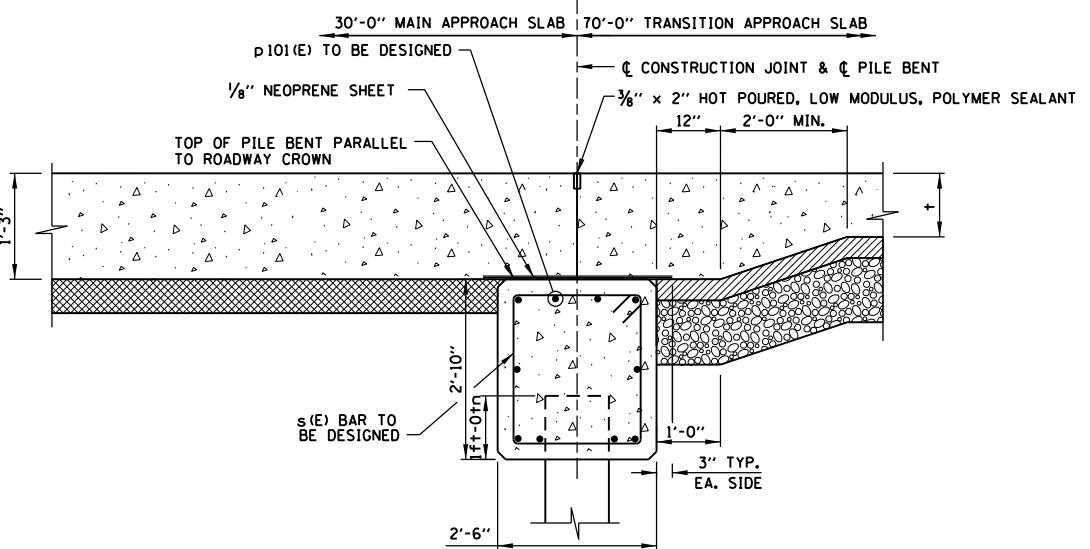
SECTION H-H



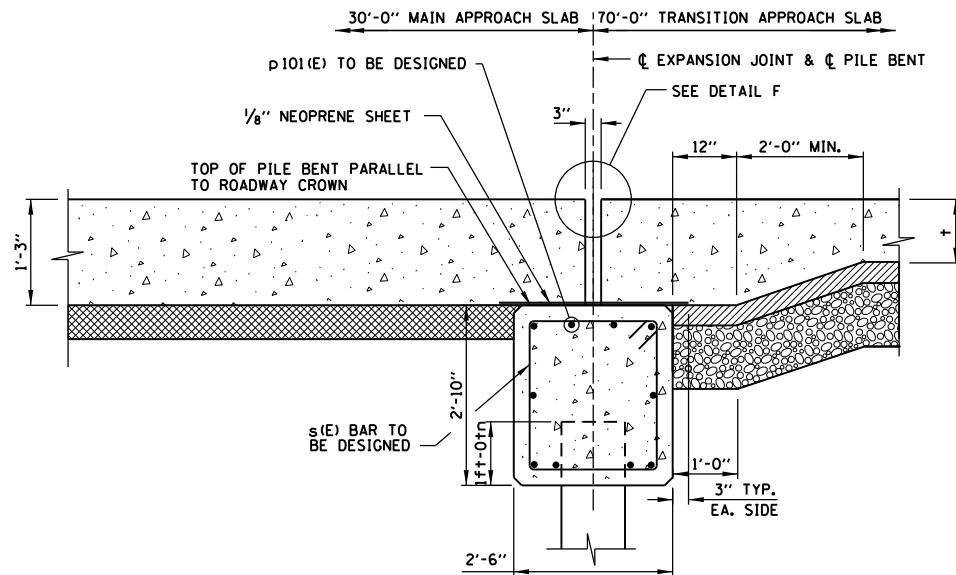
SECTION J-J

NOTES:

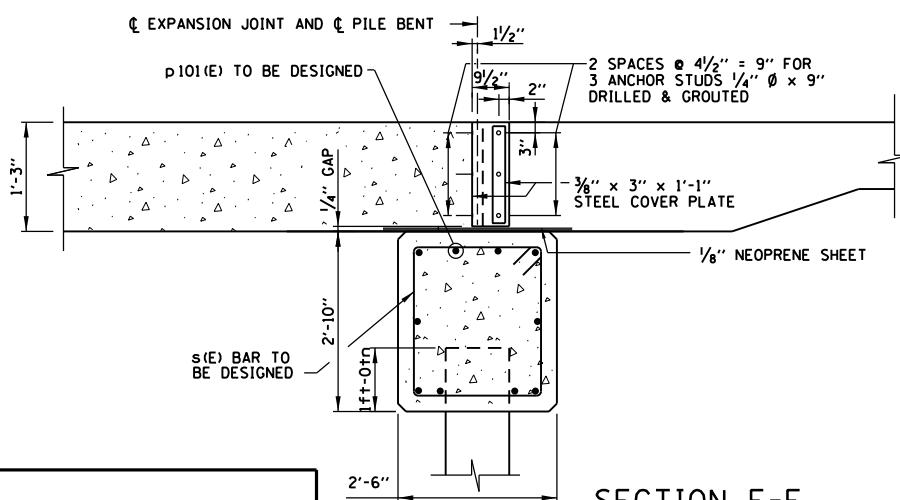
- SEE SHEET 1 (OF 3) OF THIS SERIES FOR NOTES ON THIS SHEET.
- THE DIMENSION t IS THE THICKNESS OF THE MAIN APPROACH SLAB (1'-3") OR THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.



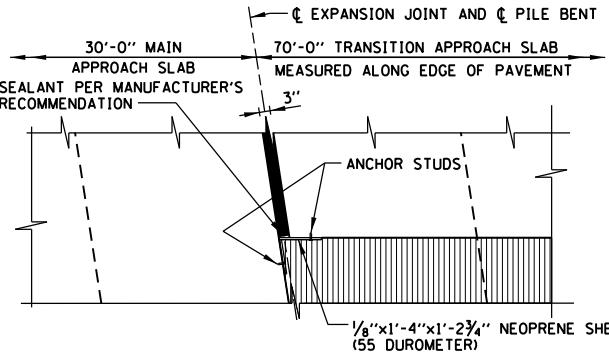
SECTION C-C
FOR NON-INTEGRAL ABUTMENT



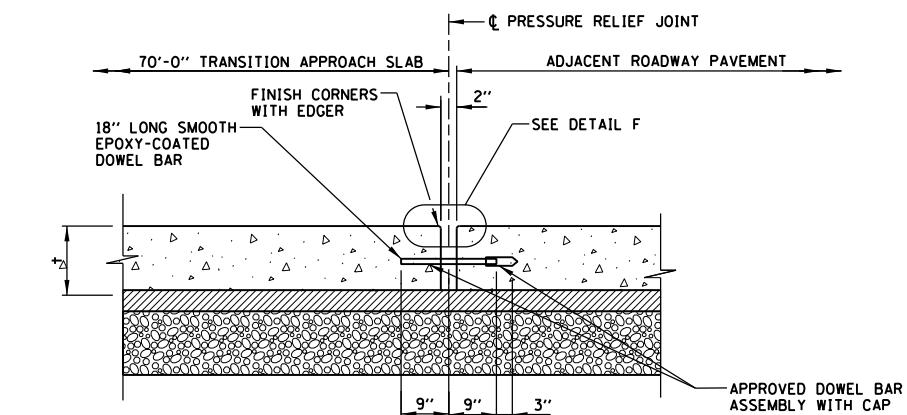
SECTION D-D
FOR INTEGRAL & SEMI-INTEGRAL ABUTMENT



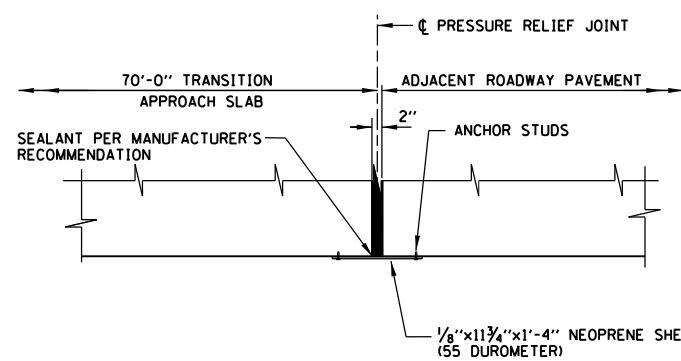
SECTION E-E
END ELEVATION OF EXPANSION JOINT



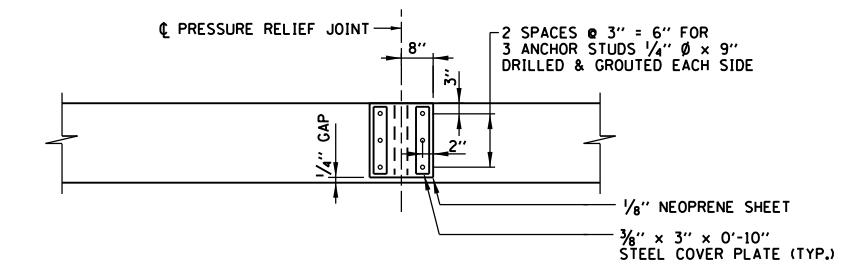
DETAIL B
END PLAN OF EXPANSION JOINT



SECTION F-F
PRESSURE RELIEF JOINT



DETAIL C
END PLAN OF PRESSURE RELIEF JOINT



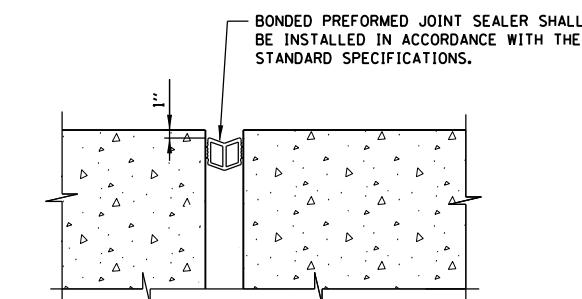
VIEW G-G
END ELEVATION OF PRESSURE RELIEF JOINT

LEGEND

	CONCRETE		ASPHALT SHOULDER
	ASPHALT BASE COURSE		JOINT SEALANT
	SUBGRADE AGGREGATE		GRANULAR SUBBASE

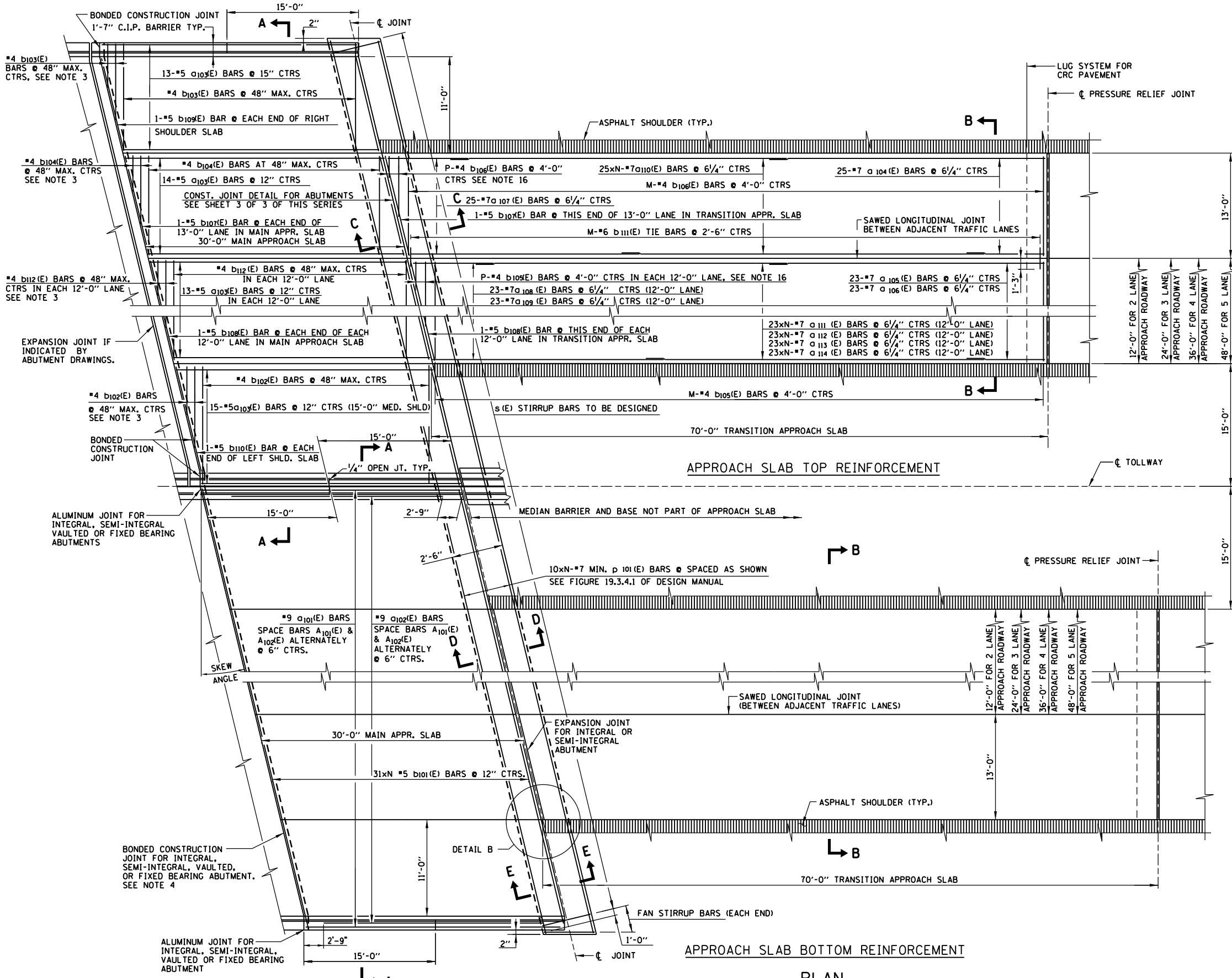
NOTES:

1. FOR REINFORCEMENT BARS IN APPROACH SLABS, SEE SHEETS 1 & 2 (OF 3) OF THIS SERIES, AND STANDARD G4 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 5 LANES) AND STANDARD G5 (APPROACH SLAB TO J.P.C. PAVEMENT, MAINLINE, BAR SCHEDULE FOR 4 LANES).
2. IN SECTION E-E AND VIEW G-G, ANCHOR STUDS SHALL BE INSTALLED IN ACCORDANCE WITH SUBSECTION 1006.09 OF THE IDOT STANDARD SPECIFICATIONS. STEEL PLATES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
3. THE THICKNESSES OF ASPHALT BASE COURSE AND SUBGRADE AGGREGATE SHALL BE THE SAME AS THEY ARE FOR THE ADJACENT PAVEMENT SECTIONS.
4. THE DIMENSION + IS THE THICKNESS OF THE TRANSITION SLAB AS DEFINED IN THE DESIGN PLANS.



DETAIL F
BONDED PREFORMED JOINT SEALER





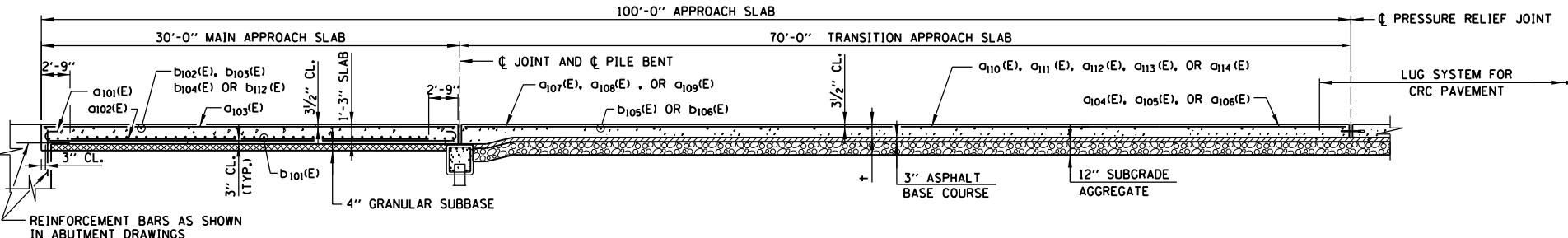
DATE	REVISIONS
2-28-2008	PILE BENT
6-1-2009	REVISED MEDIAN DIMENSION, ADDED SUBBASE MATERIAL UNDER MAIN APPROACH SLAB, ADDED BOND BREAKER NOTE-SECTION A-A

APPROACH SLAB TO CRC PAVEMENT, MAINLINE

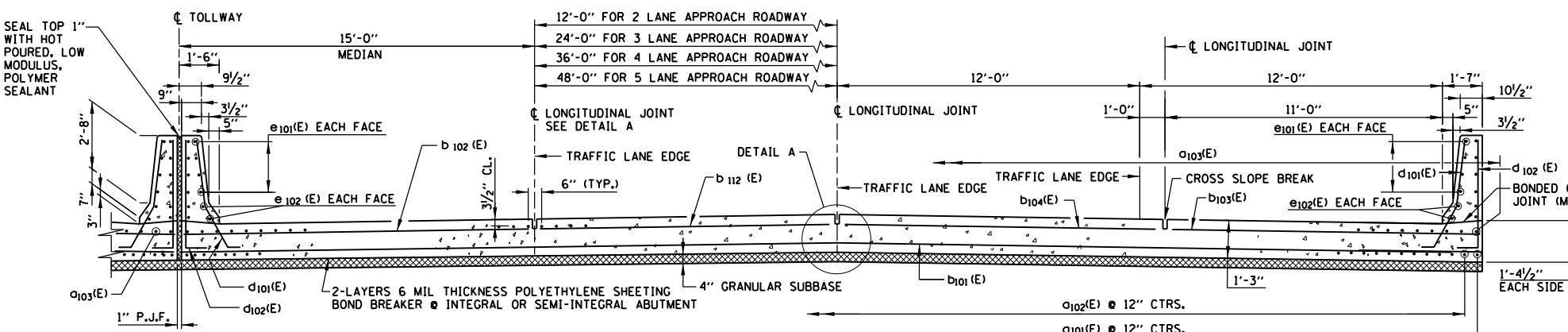
STANDARD G6-02



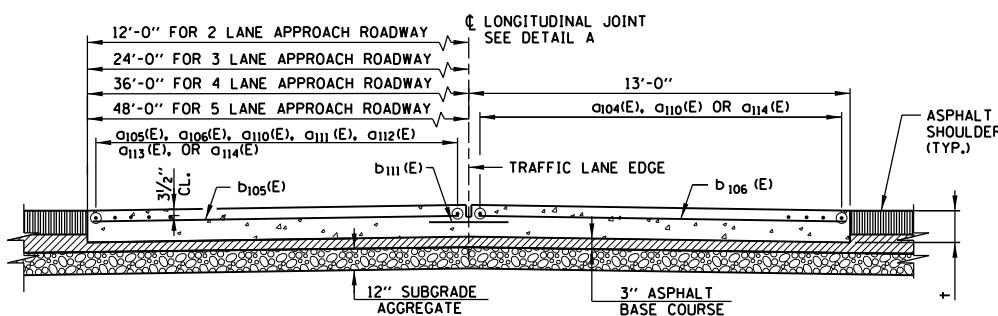
SHEET 1 OF 3



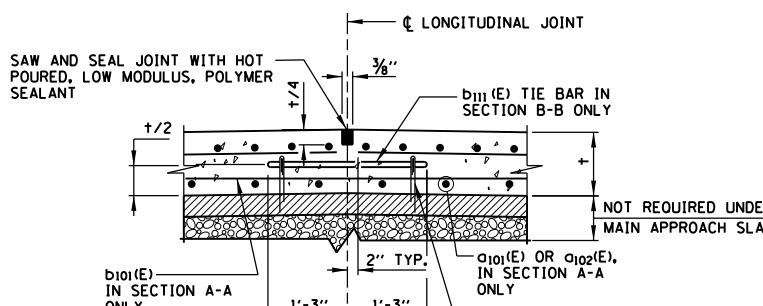
LONGITUDINAL CROSS SECTION



SECTION A-A

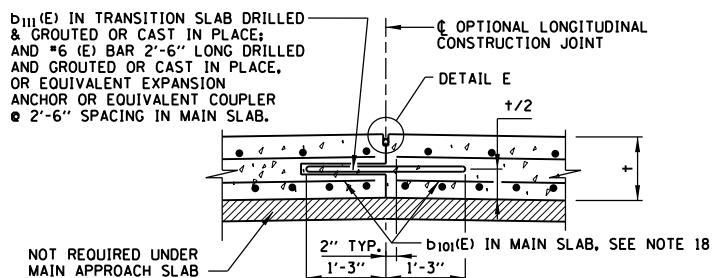


SECTION B-B

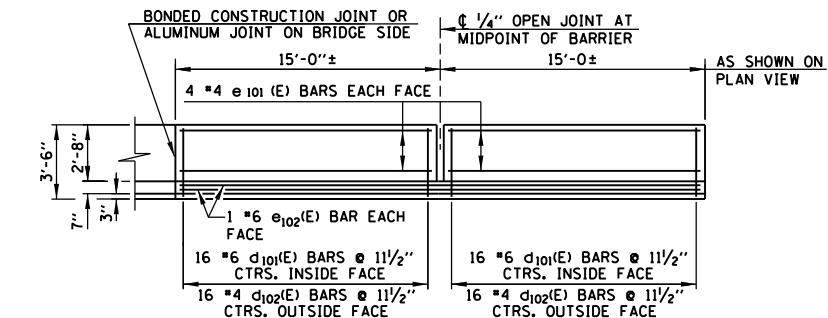


TYPICAL LONGITUDINAL JOINT

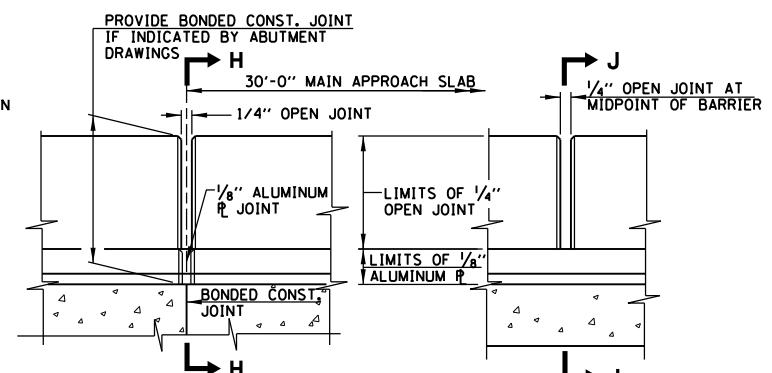
CROSS SECTION THRU OPTIONAL LONGITUDINAL CONSTRUCTION JOINT BETWEEN TRAFFIC LANES



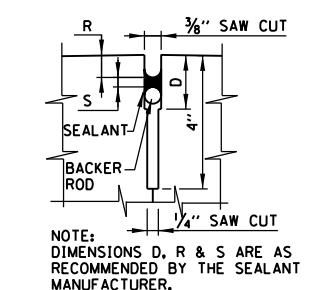
CROSS SECTION THRU LONGITUDINAL JOINT WITH OPTIONAL CONSTRUCTION JOINT



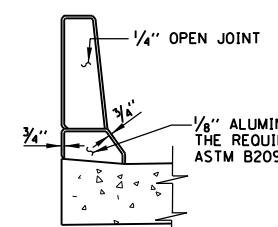
BARRIER ELEVATION



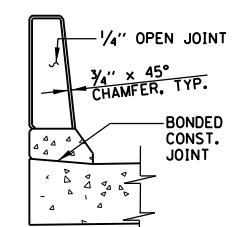
ELEVATION DETAIL OF BARRIER JOINTS



DETAIL E



SECTION H-H



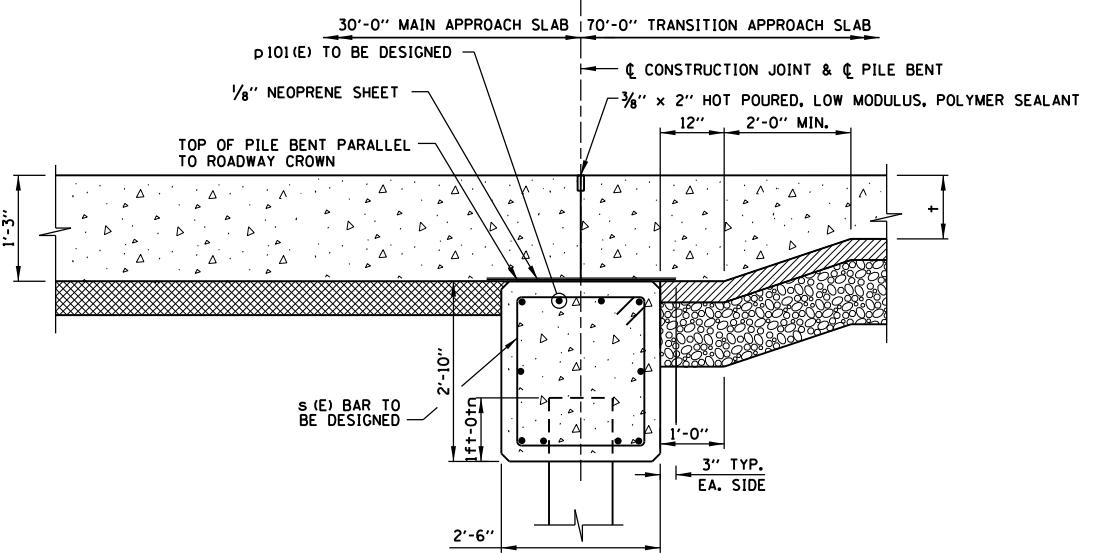
SECTION J-J

NOTES:

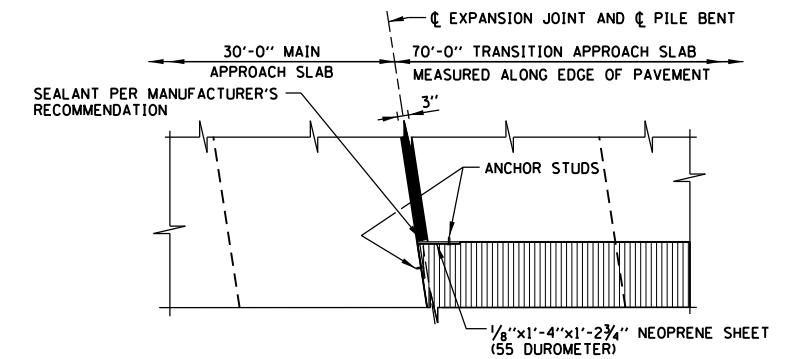
- SEE SHEET 1 (OF 3) OF THIS SERIES FOR NOTES ON THIS SHEET.
- THE DIMENSION t IS THE THICKNESS OF THE MAIN APPROACH SLAB (1'-3") OR THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.

Paul Kovacs

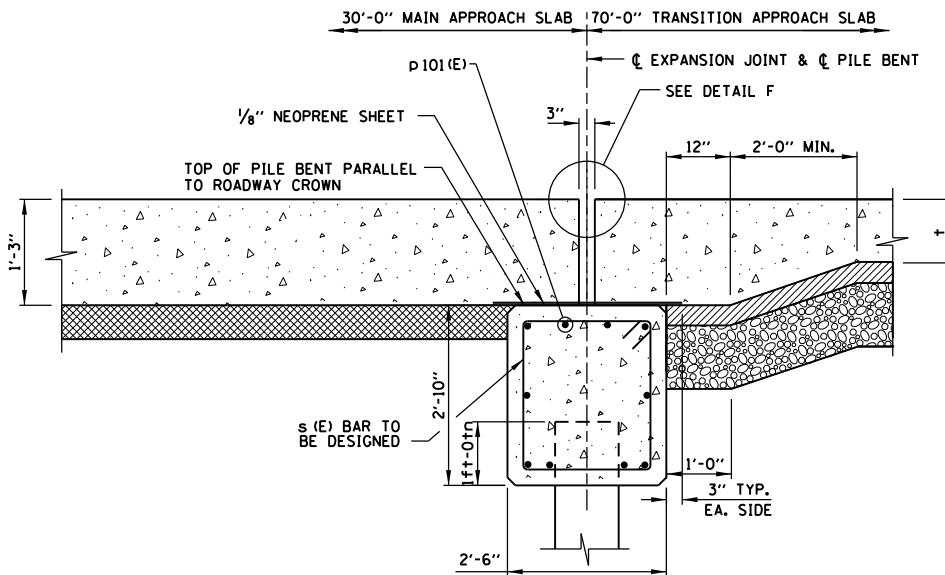
APPROVED CHIEF ENGINEER DATE 2-28-2008



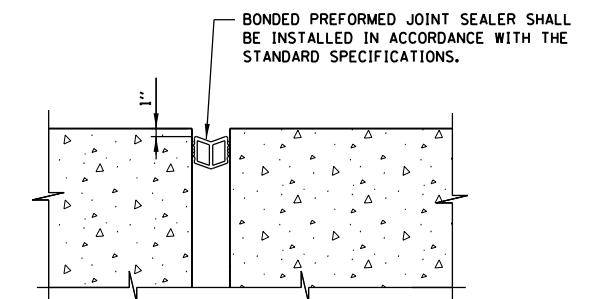
SECTION C-C
FOR NON-INTEGRAL ABUTMENT



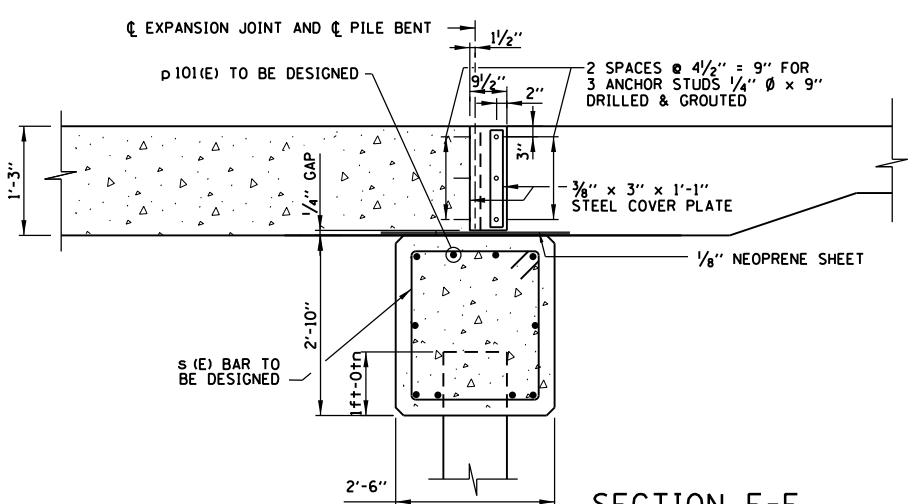
DETAIL B
END PLAN OF EXPANSION JOINT



SECTION D-D
FOR INTEGRAL & SEMI-INTEGRAL ABUTMENT



DETAIL F
BONDED PREFORMED JOINT SEALER



SECTION E-E
END ELEVATION OF EXPANSION JOINT

LEGEND

- [Concrete symbol] CONCRETE
- [Asphalt symbol] ASPHALT BASE COURSE
- [Subgrade symbol] SUBGRADE AGGREGATE
- [Asphalt shoulder symbol] ASPHALT SHOULDER
- [Joint sealant symbol] JOINT SEALANT
- [Granular subbase symbol] GRANULAR SUBBASE

NOTES:

1. FOR REINFORCEMENT BARS IN APPROACH SLABS, SEE SHEETS 1 & 2 AND STANDARD G7 (APPROACH SLAB TO CRC PAVEMENT, MAINLINE, BAR DETAILS AND SCHEDULES FOR 5 LANES) AND STANDARD G8 (APPROACH SLAB TO CRC PAVEMENT, MAINLINE, BAR DETAILS AND SCHEDULES FOR 4 LANES).
2. IN SECTION E-E ANCHOR STUDS SHALL BE INSTALLED IN ACCORDANCE WITH SUBSECTION 1006.09 OF THE IDOT STANDARD SPECIFICATIONS. STEEL PLATES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
3. THE THICKNESSES OF ASPHALT BASE COURSE AND SUBGRADE AGGREGATE SHALL BE THE SAME AS THEY ARE FOR THE ADJACENT PAVEMENT SECTIONS.
4. THE DIMENSION + IS THE THICKNESS OF THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.

SHEET 3 OF 3



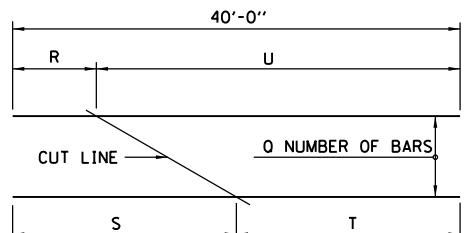
APPROACH SLAB TO CRC
PAVEMENT, MAINLINE

STANDARD G6-02

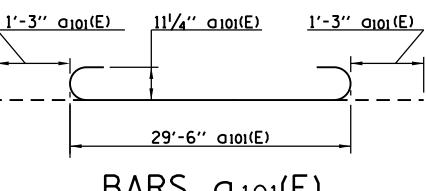
Paul Kovacs
APPROVED
CHIEF ENGINEER

DATE 2-28-2008

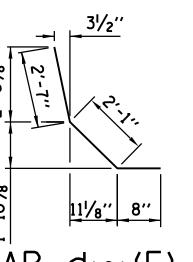
TABLE OF CUTTING DIAGRAM DIMENSIONS																
BAR	LANE	O	DIM.	0° SKEW	5° SKEW	10° SKEW	15° SKEW	20° SKEW	25° SKEW	30° SKEW	35° SKEW	40° SKEW	45° SKEW	50° SKEW	55° SKEW	60° SKEW
a104(E)	5A, 5B, 5C, 5D	13	R	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"	9'-2"
			S	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"
			T	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"
a105(E)	3A,3B,3C,3D 4A,4B,4C,4D	12	R	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
			S	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"	19'-7"
			T	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"	20'-5"
a106(E)	1A,1B,1C,1D 2A,2B,2C,2D	12	U	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"	30'-10"
			R	9'-2"	9'-9"	10'-3"	10'-10"	11'-5"	12'-1"	13'-7"	14'-5"	15'-5"	16'-7"	18'-1"	20'-0"	20'-0"
			S	19'-7"	19'-7"	19'-7"	19'-8"	19'-8"	19'-9"	19'-9"	19'-9"	19'-10"	19'-11"	20'-0"	20'-0"	20'-0"
a107(E)	5A, 5B, 5C, 5D	13	T	20'-5"	20'-5"	20'-5"	20'-4"	20'-4"	20'-3"	20'-3"	20'-3"	20'-2"	20'-1"	20'-0"	20'-0"	20'-0"
			U	30'-10"	30'-3"	29'-9"	29'-2"	28'-7"	27'-11"	27'-3"	26'-5"	25'-7"	24'-7"	23'-5"	21'-11"	20'-0"
			R	10'-0"	10'-7"	11'-1"	11'-7"	12'-2"	12'-9"	13'-4"	14'-1"	14'-10"	15'-9"	16'-11"	18'-3"	20'-0"
a108(E)	3A,3B,3C,3D 4A,4B,4C,4D	12	S	19'-7"	19'-7"	19'-7"	19'-8"	19'-8"	19'-9"	19'-9"	19'-9"	19'-10"	19'-11"	19'-11"	20'-0"	20'-0"
			T	20'-5"	20'-5"	20'-5"	20'-4"	20'-4"	20'-3"	20'-3"	20'-3"	20'-2"	20'-1"	20'-0"	20'-0"	20'-0"
			U	30'-0"	29'-5"	28'-11"	28'-5"	27'-10"	27'-3"	26'-8"	25'-11"	24'-3"	23'-1"	21'-9"	20'-0"	20'-0"



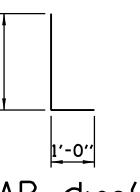
REINFORCEMENT BAR CUTTING DIAGRAM



BARS a101(E)



BAR d101(E)



BAR d102(E)

REINFORCING BAR SCHEDULE FOR BARRIERS			
BAR	NO.	SIZE	LENGTH
d101(E)	128	6	5'-4"
d102(E)	128	4	5'-6"
e101(E)	64	4	14'-8"
e102(E)	16	6	29'-6"

BILL OF MATERIAL FOR BARRIERS

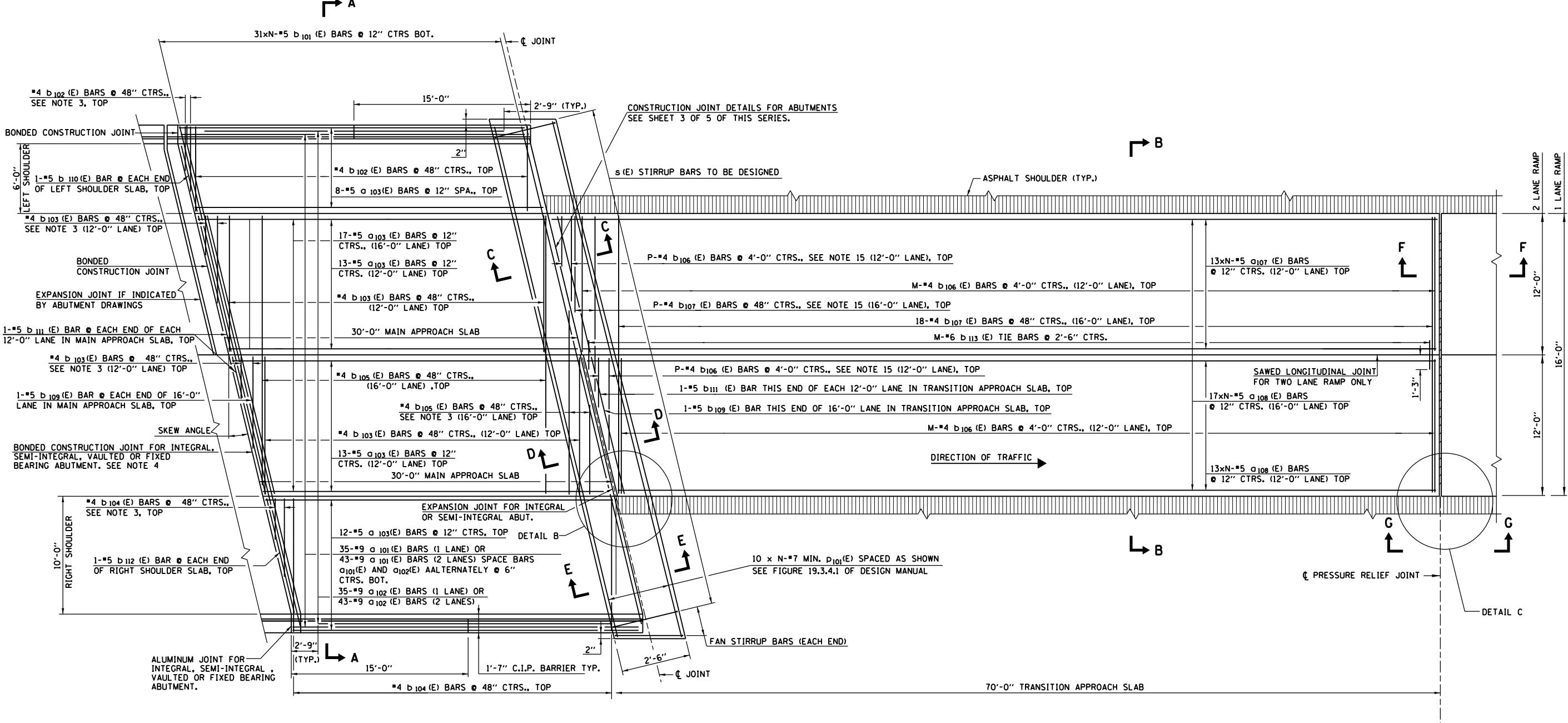
IDOT PAY ITEM NO.	DESCRIPTION	UNIT	QUANT'Y
50300255	CONCRETE SUPERSTRUCTURE	CU. YD.	16.0
50800205	REINFORCING BARS, EPOXY COATED	LBS.	2,831
50300300	PROTECTIVE COAT	SO. YD.	60

NOTES:

1. BARS a105(E), a106(E), a108(E), AND a109(E) ARE TO BE USED IN 12'-0" WIDE LANES, AND THE SHORTEST BAR IN THESE SERIES OF BARS (10'-0" FOR BAR a106(E)) IS TO BE DISCARDED TO MAKE EACH SERIES OF BARS CONTAIN ONLY 23 BARS. BARS a104(E) AND a107(E) ARE TO BE USED IN THE 13'-0" WIDE LANE, AND THE SHORTEST BAR IN THESE SERIES OF BARS (9'-2" FOR BAR a104(E)) IS TO BE DISCARDED TO MAKE EACH SERIES OF BARS CONTAIN ONLY 25 BARS.
2. THE REINFORCING BAR SCHEDULE FOR APPROACH SLABS IS SHOWN FOR 15'-0" WIDE MEDIAN SHOULDERs. FOR 14'-0" WIDE MEDIAN SHOULDERs, AT EACH SKew ANGLE IN THIS SCHEDULE:
 - REDUCE THE NUMBER OF a101(E) AND a102(E) BARS FROM 178 TO 176 AND FROM 176 TO 174 RESPECTIVELY.
 - REDUCE THE NUMBER OF b103(E) BARS FROM 188 TO 186.
 - REDUCE THE LENGTH OF b102(E) BARS FROM 14'-7" TO 13'-7".
 - REDUCE THE AREA QUANTITY OF BRIDGE APPROACH SLAB BY 6.7 SQUARE YARDS.
 - REDUCE THE WEIGHT QUANTITY OF APPROACH SLAB REINFORCING STEEL, EPOXY COATED BY 458 POUNDS.
 FURTHERMORE, TRIM THE b110(E) BARS IN THE 14'-0" MEDIAN SHOULDERs AS NECESSARY TO FIT THE SKew ANGLE.
3. THE AREA OF EACH MAIN APPROACH SLAB CALCULATED FOR PAYMENT IS THE PLAN AREA CALCULATED FROM THE WIDTH DIMENSION FROM THE OUTSIDE FACE OF OUTER BARRIER TO OUTSIDE OF MEDIAN BARRIER BY THE LENGTH OF 30.00 FEET.
4. THE AREA OF EACH TRANSITION APPROACH SLAB CALCULATED FOR PAYMENT IS THE PLAN AREA CALCULATED FROM THE WIDTH DIMENSION FROM LEFT OUTSIDE EDGE OF CONCRETE PAVEMENT TO THE RIGHT OUTSIDE EDGE OF CONCRETE PAVEMENT BY THE MINIMUM LENGTH OF 70.00 FEET PLUS THE ADDITIONAL LENGTH REQUIRED BY THE SKew ANGLE.
5. WORK THIS STANDARD WITH STANDARD G6 (APPROACH SLAB TO CRC PAVEMENT, MAINLINE, GENERAL PLAN, SECTIONS AND DETAILS) AND SHEET 1 OF 1 OF THIS SERIES.

SHEET 2 OF 2

	APPROACH SLAB TO CRC PAVEMENT, MAINLINE BAR SCHEDULES FOR 5 LANES
STANDARD G7-02	



PLAN

NOTES:

1. TILT HOOK OF "9 BARS FOR MINIMUM 3½" CLEARANCE.
2. USE 1'-4" MIN. LAP FOR #4 BARS. USE 1'-8" MIN. LAP FOR #5 BARS.
3. CUT REINFORCEMENT IN THE FIELD TO FIT THE SKEW AND USE REMAINDER IN OPPOSITE END.
4. SAW CUT $\frac{3}{8}$ " x 2" DEEP JOINT AND FILL WITH HOT POURED, LOW MODULUS, POLYMER SEALANT MEETING THE REQUIREMENTS OF ASTM D3405.
5. PROTECTIVE COAT SHALL BE APPLIED TO TOP AND TRAFFIC FACES OF BARRIERS.
6. TOOL EDGES OF EXPANSION AND PRESSURE RELIEF JOINTS TO ¼" RADIUS.
7. REINFORCING BARS SHALL MEET THE REQUIREMENTS OF AASHTO M31 (ASTM A615), GRADE 60, AND SHALL CONFORM TO SECTION 508 OF THE IDOT STANDARD SPECIFICATIONS.
8. REINFORCING BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
9. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 315, LATEST EDITION.
10. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
11. EXPOSED CONCRETE EDGES SHALL HAVE $\frac{3}{4}$ " x 45° CHAMFERS. CHAMFERS ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW GROUND LEVEL.
12. CONCRETE BARRIERS SHALL BE CONSTRUCTED & PAID FOR IN ACCORDANCE WITH SECTIONS 503, 508, AND 587 OF THE IDOT STANDARD SPECIFICATIONS.
13. THE NOTATION MXN-#4 a FOR REINFORCING BARS IS DEFINED AS M LINES OF BARS WITH N LENGTHS PER LINE. FOR SCHEDULES OF REINFORCING BAR VARIABLE BILLINGS, SEE SHEETS 4 AND 5 (OF 5) OF THIS SERIES.

14. THE NUMBER OF BARS 'P' IS GIVEN IN THE SCHEDULES OF REINFORCING BAR VARIABLE BILLINGS ON SHEETS 4 & 5 (OF 5) OF THIS SERIES.
15. CUT REINFORCEMENT IN THE FIELD TO FIT SKEW AND PLACE REMAINDER IN ADJACENT AREA OR DISCARD OFF SITE.
16. IN THE CORNERS OF THE PILE BENT, THE CONCRETE SHALL BE BLOCKED OUT AND THE REINFORCING STEEL SHALL BE RESPAVED (OR CUT) FOR GUARDRAIL POSTS, DRAINAGE STRUCTURES, NOISE ABATEMENT WALLS, ETC. AS NECESSARY AND AS APPROVED BY THE ENGINEER.
17. IN REFERENCE TO LONGITUDINAL CONSTRUCTION JOINTS ON SHEET 2 (OF 5) OF THIS SERIES; THESE BARS SHALL BE CUT TO FIT FROM LENGTHS SHOWN IN THE REINFORCING BAR SCHEDULE FOR THE CONSTRUCTION JOINT. THESE BARS MAY BE REPLACED BY ALTERNATIVE BARS AND LENGTHS AS SHOWN IN THE DESIGN PLANS.
18. EXPANSION ANCHORS AND DRILLED AND GROUTED DOWELS SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
19. AS APPROVED BY THE ENGINEER, THE CONTRACTOR MAY ELECT TO REDUCE THE WIDTHS OF THE POUR BY USE OF THE OPTIONAL LONGITUDINAL CONSTRUCTION JOINT SHOWN. JOINTS SHALL BE LOCATED AT THE EDGE OF A TRAFFIC LANE.

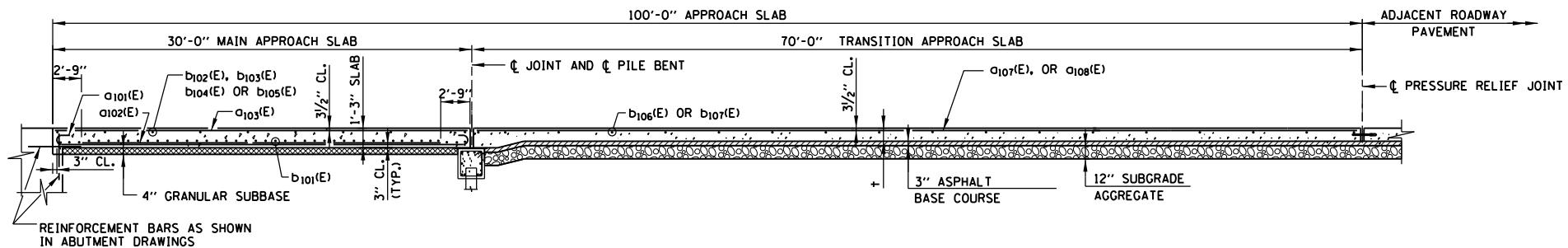
SHEET 1 OF 5



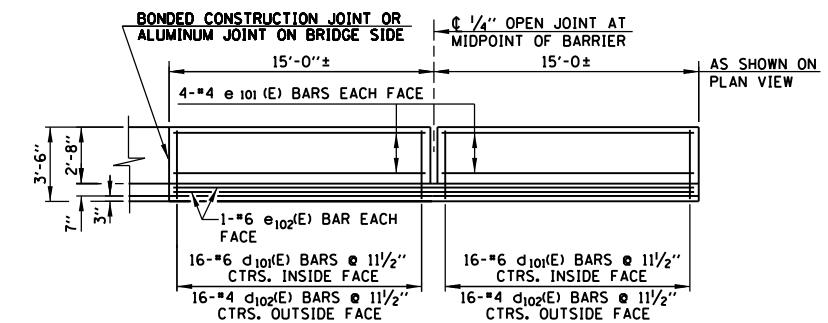
Paul Kovacs
APPROVED
CHIEF ENGINEER
DATE 2-28-2008

DATE	REVISIONS
2-28-2008	PILE BENT
6-1-2009	REVISED NOTES, ADDED SUBBASE
	MATERIAL UNDER MAIN APPROACH SLAB,
	ADDED BOND BREAKER NOTE-SECTION A-A

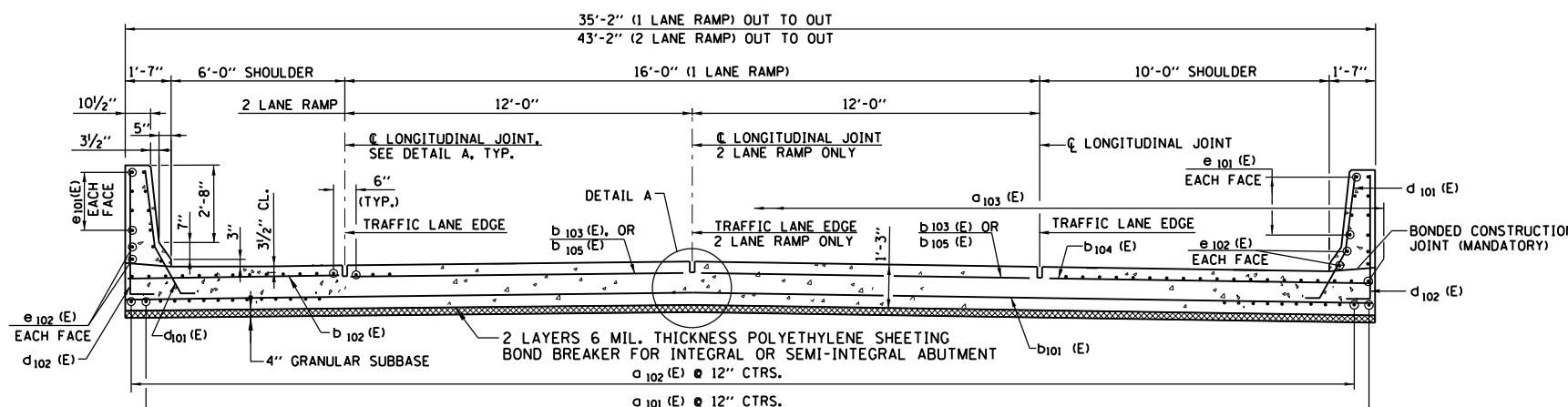
APPROACH SLAB, RAMP
STANDARD G9-02



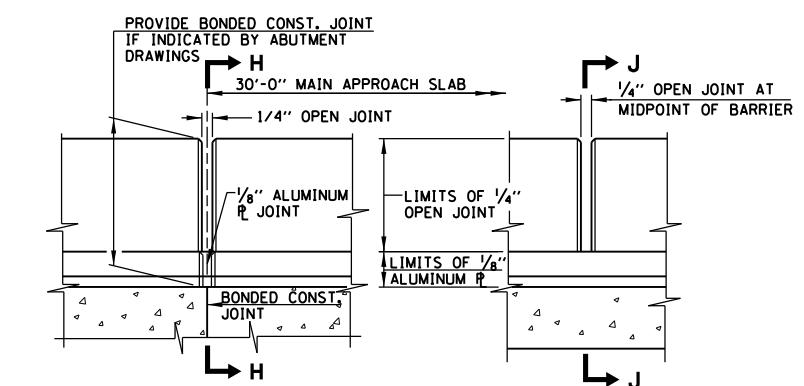
LONGITUDINAL CROSS SECTION



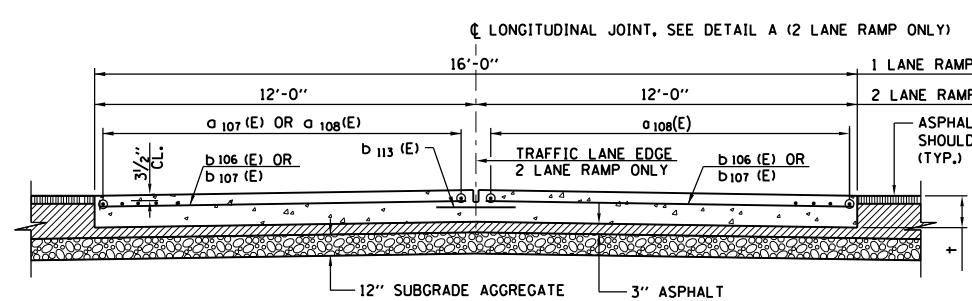
BARRIER ELEVATION



SECTION A-A



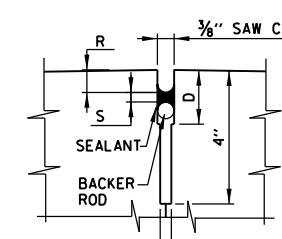
ELEVATION DETAIL OF BARRIER JOINTS



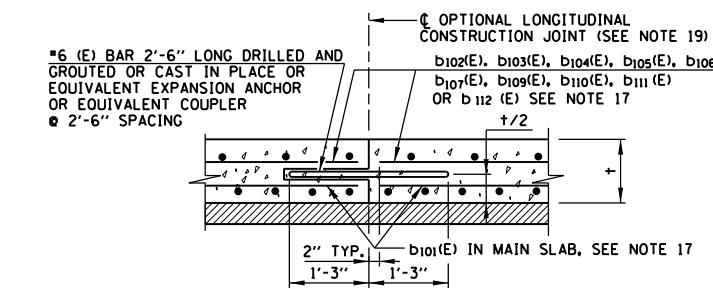
SECTION B-B

NOTES:

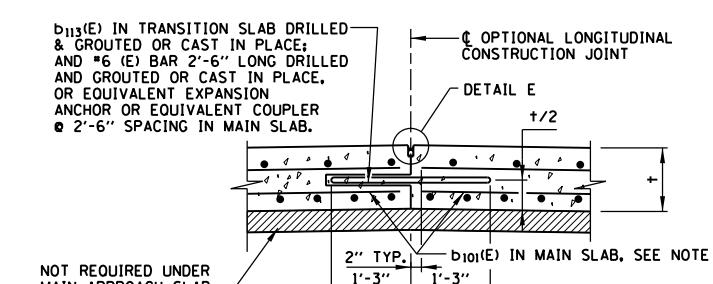
- SEE SHEET 1 (OF 5) OF THIS SERIES FOR NOTES ON THIS SHEET.
- THE THICKNESS \pm IS THE THICKNESS OF THE MAIN APPROACH SLAB (1'-3") OR THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.



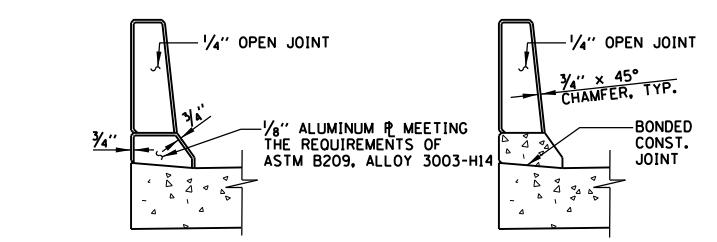
DETAIL E



CROSS SECTION THRU OPTIONAL LONGITUDINAL CONSTRUCTION JOINT BETWEEN LANE LINES

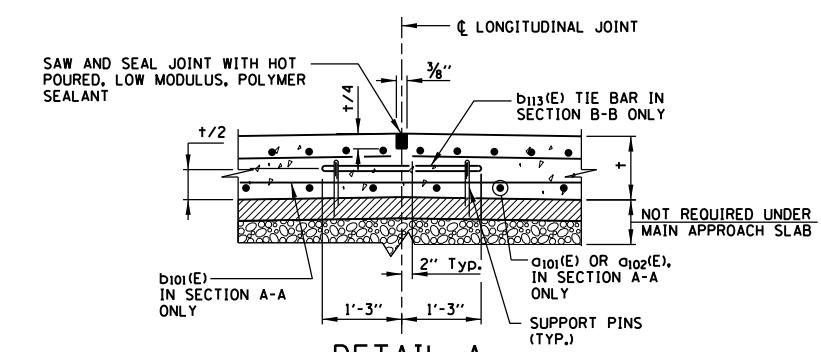


CROSS SECTION THRU OPTIONAL LONGITUDINAL JOINT WITH CONSTRUCTION JOINT



SECTION H-H

SECTION J-J



DETAIL A

TYPICAL LONGITUDINAL JOINT



APPROACH SLAB, RAMP

STANDARD G9-02

Paul Kovacs

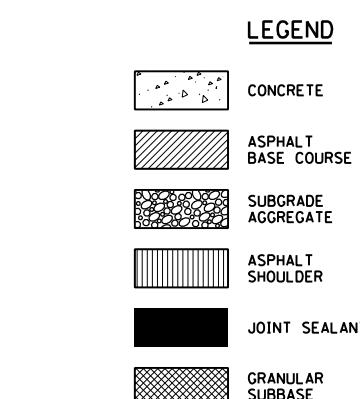
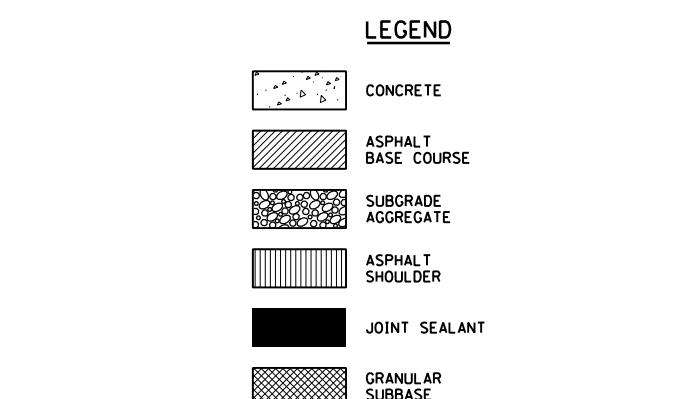
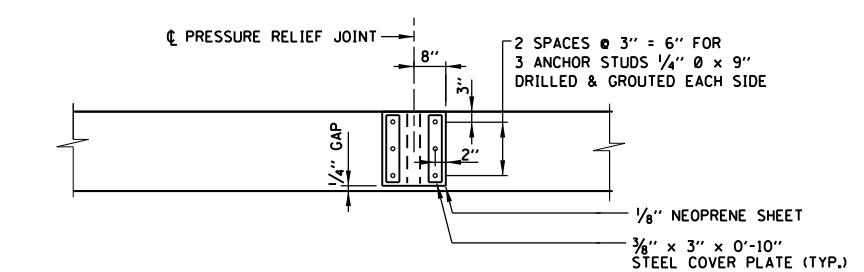
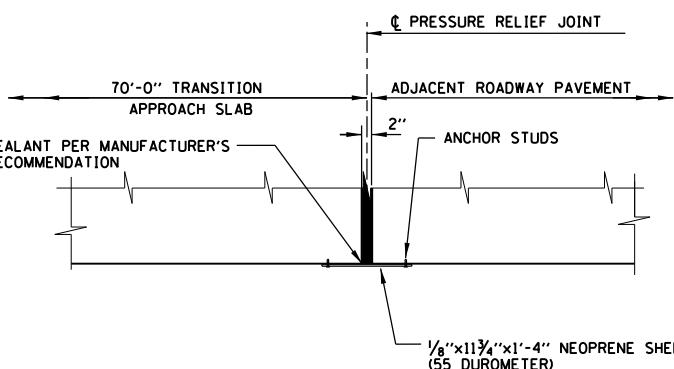
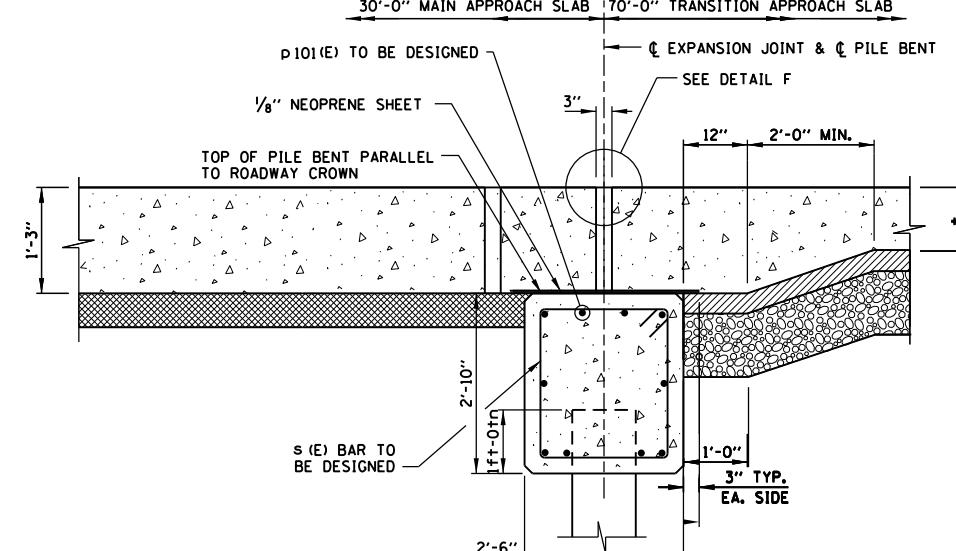
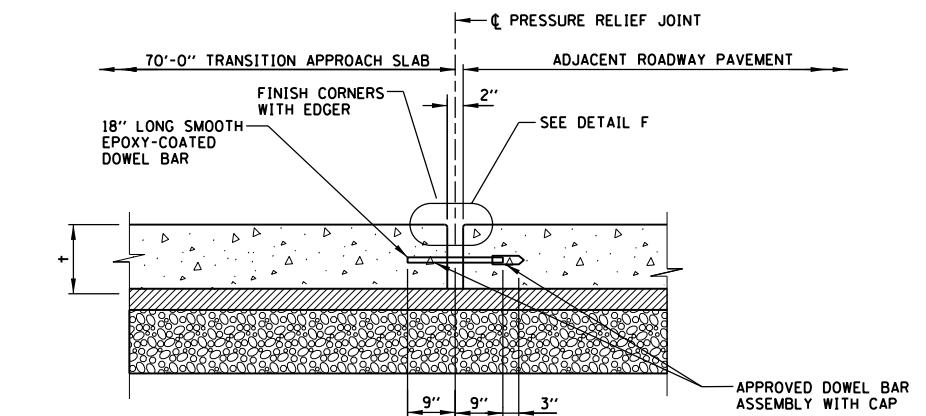
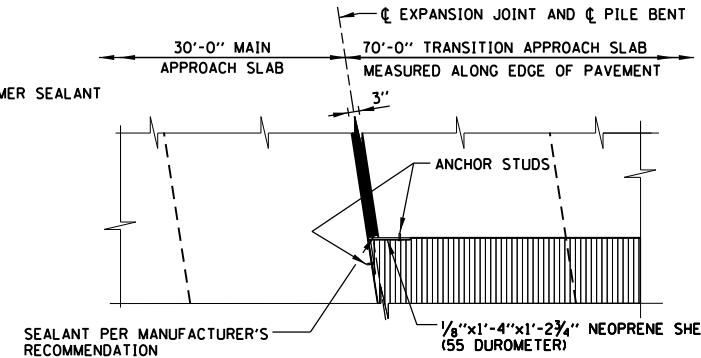
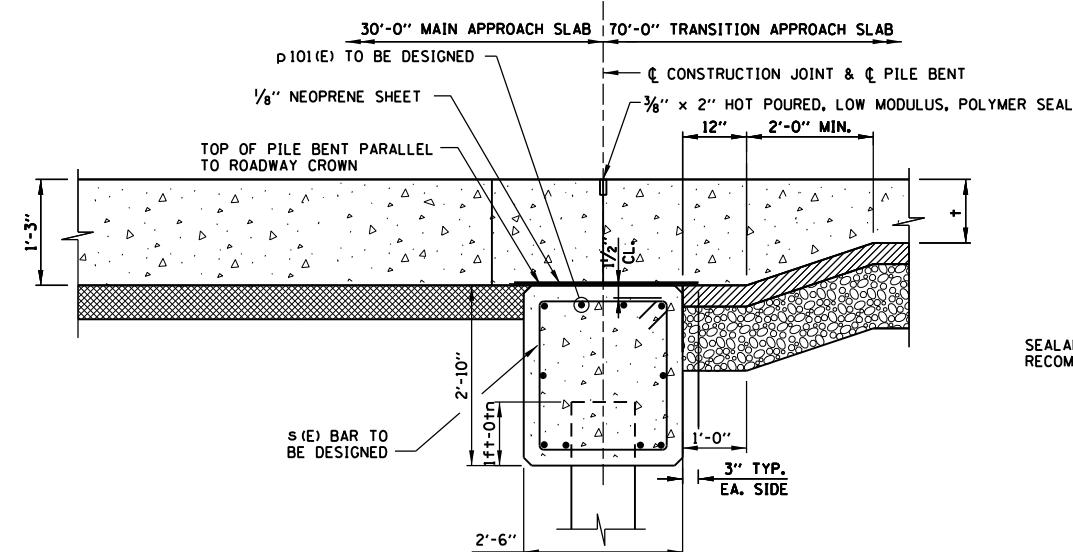
APPROVED

DATE 2-28-2008



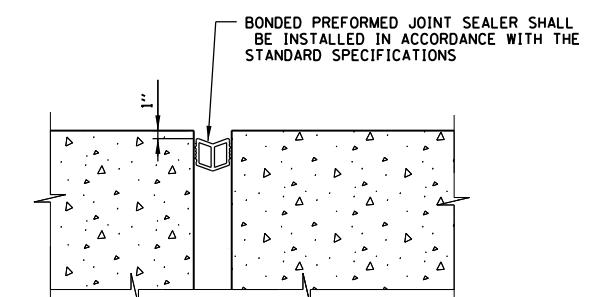
APPROACH SLAB, RAMP

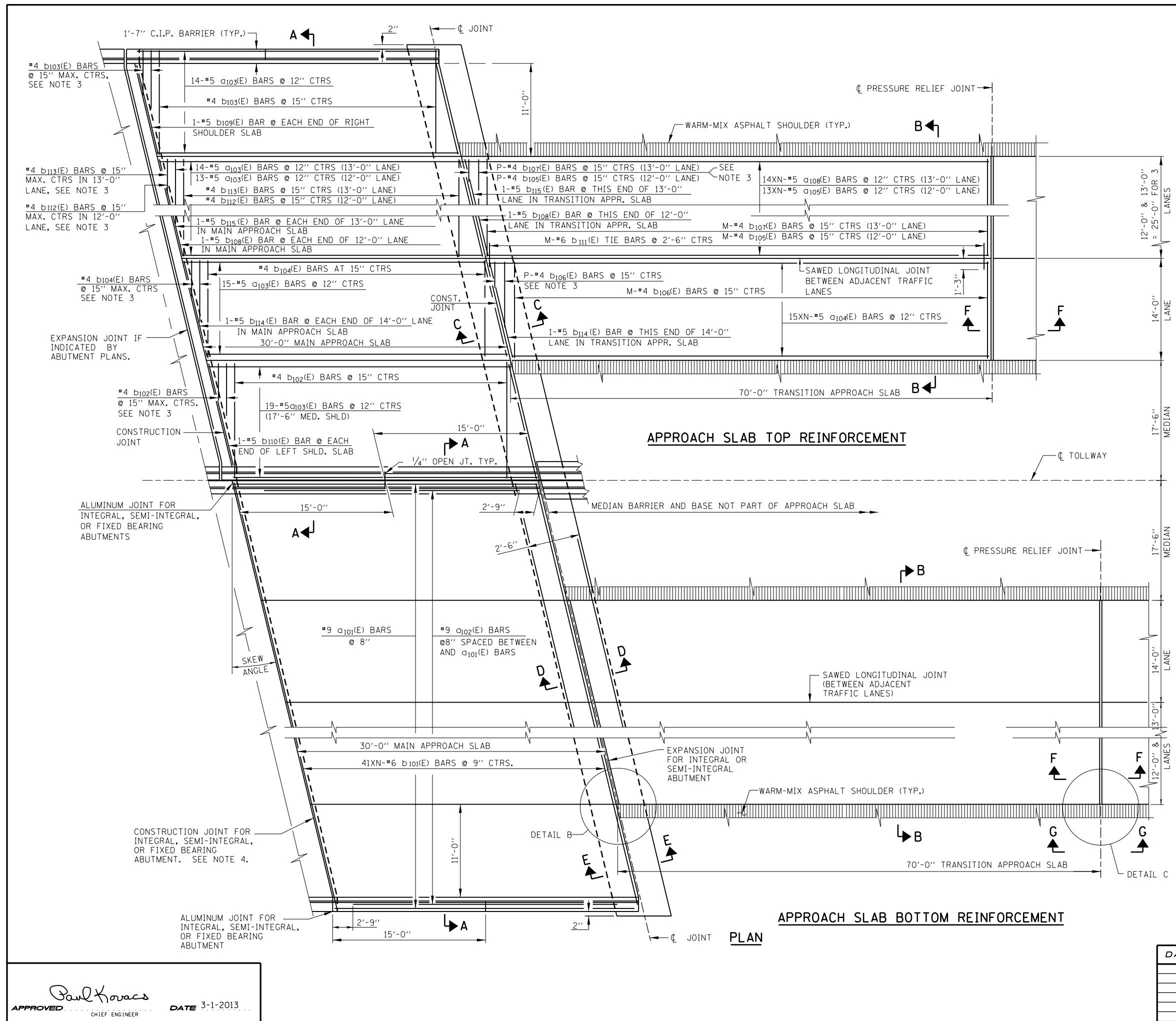
STANDARD G9-02

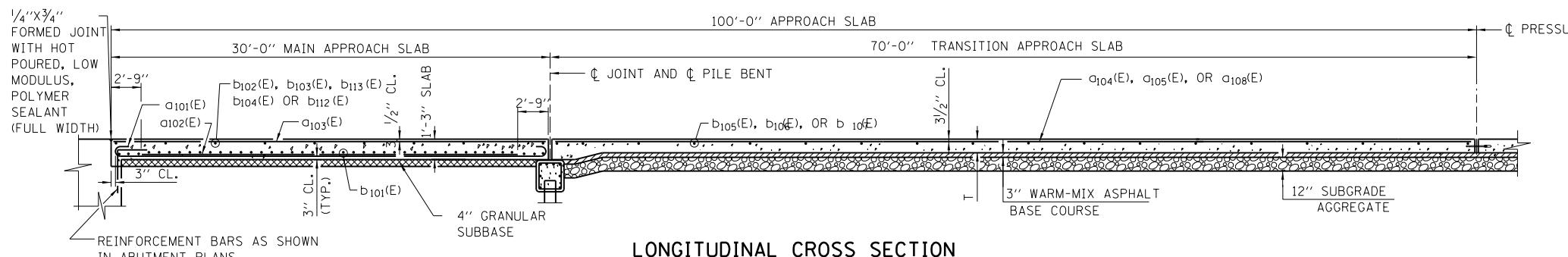


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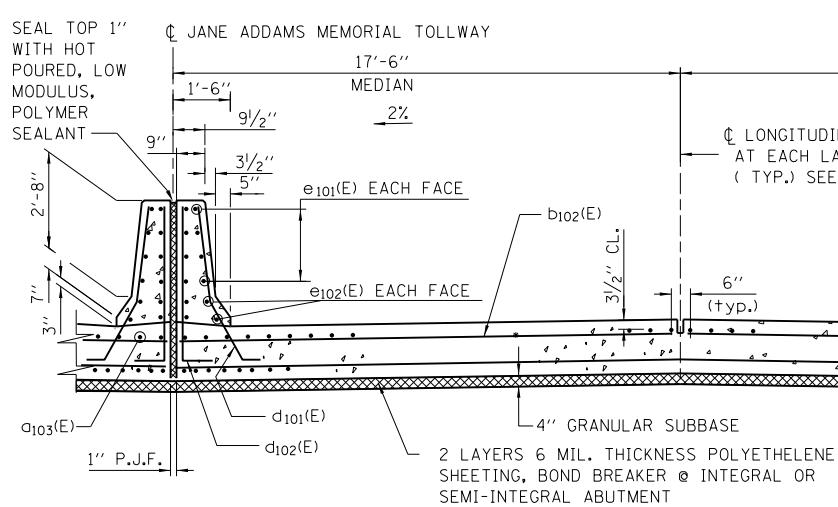
1. FOR REINFORCEMENT BARS IN APPROACH SLABS, SEE SHEETS 1, 2, 4 & 5 (OF 5) OF THIS SERIES.
2. IN SECTION E-E AND VIEW G-G, ANCHOR STUDS SHALL BE INSTALLED IN ACCORDANCE WITH SUBSECTION 1006.09 OF THE IDOT STANDARD SPECIFICATIONS. STEEL PLATES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
3. THE THICKNESSES OF HOT-MIX ASPHALT BASE COURSE, AND SUBGRADE AGGREGATE SHALL BE THE SAME AS THEY ARE FOR THE ADJACENT PAVEMENT SECTIONS.
4. THE DIMENSION t IS THE THICKNESS OF THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.



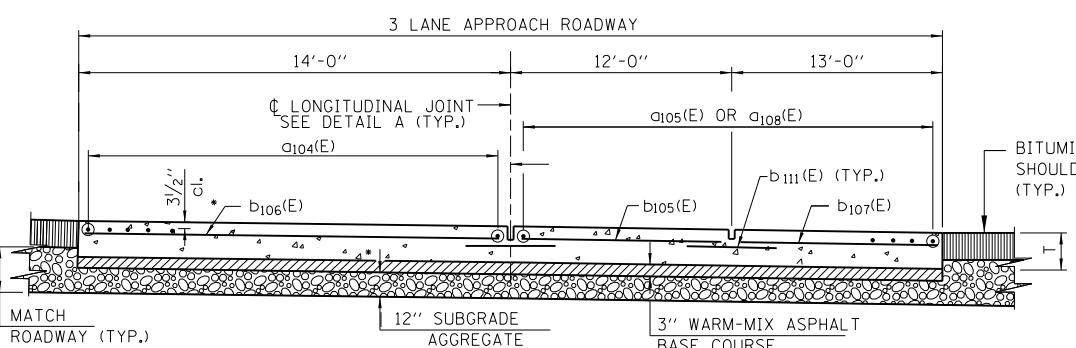




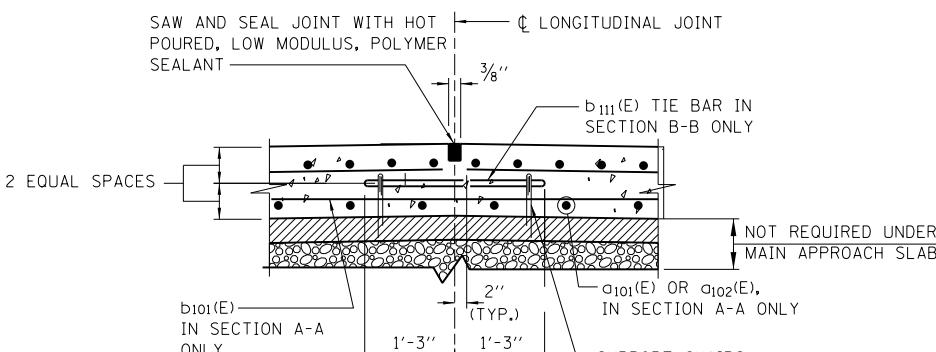
LONGITUDINAL CROSS SECTION



SECTION A-A



SECTION B-B

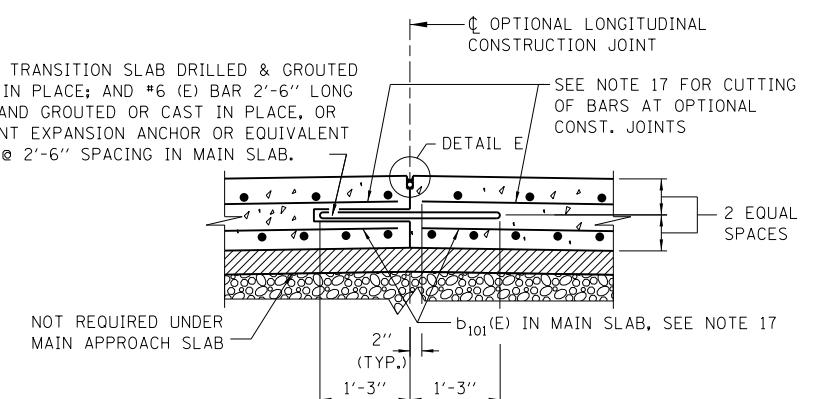


DETAIL A
TYPICAL LONGITUDINAL JOINT

Paul Kovacs
APPROVED
CHIEF ENGINEER

DATE 3-1-2013

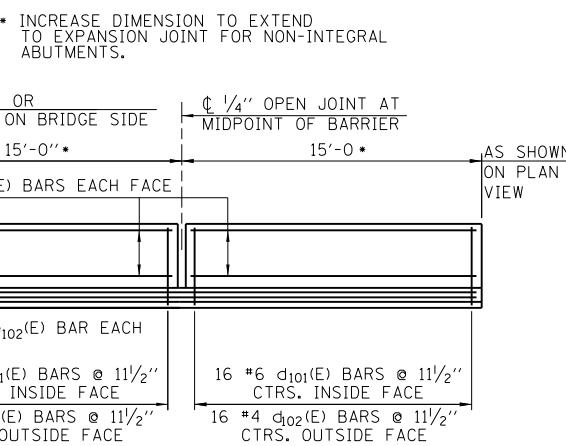
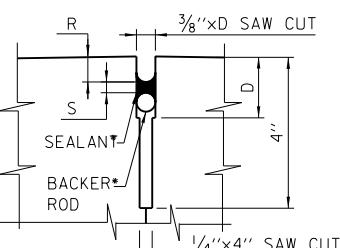
CROSS SECTION THRU OPTIONAL LONGITUDINAL CONSTRUCTION JOINT BETWEEN TRAFFIC LANES



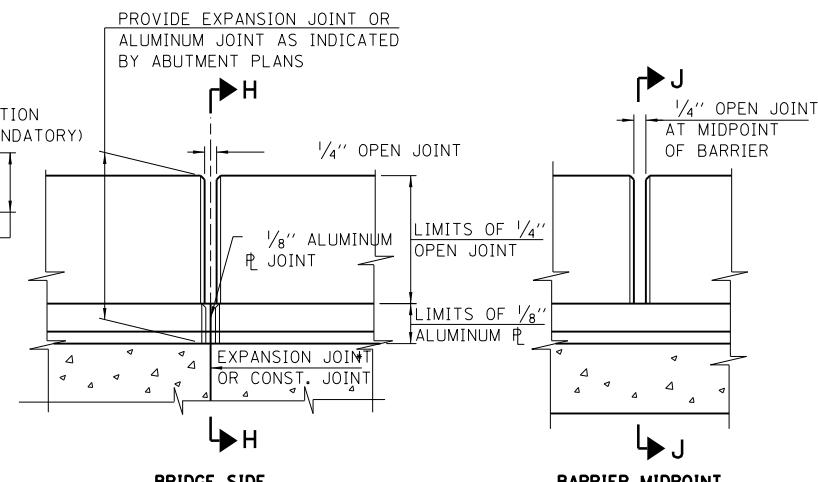
CROSS SECTION THRU LONGITUDINAL JOINT WITH OPTIONAL CONSTRUCTION JOINT

DETAIL E

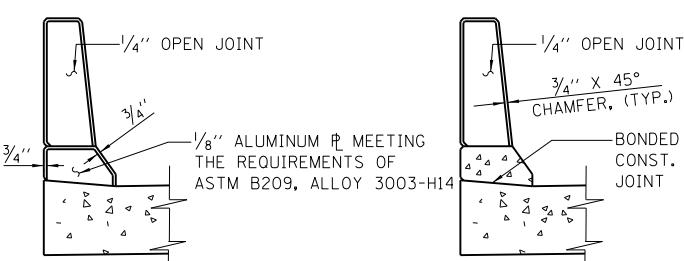
NOTE:
DIMENSIONS D, R & S ARE AS RECOMMENDED BY THE SEALANT MANUFACTURER.



BARRIER ELEVATION



ELEVATION DETAIL OF BARRIER JOINTS



SECTION J-J

NOTES:

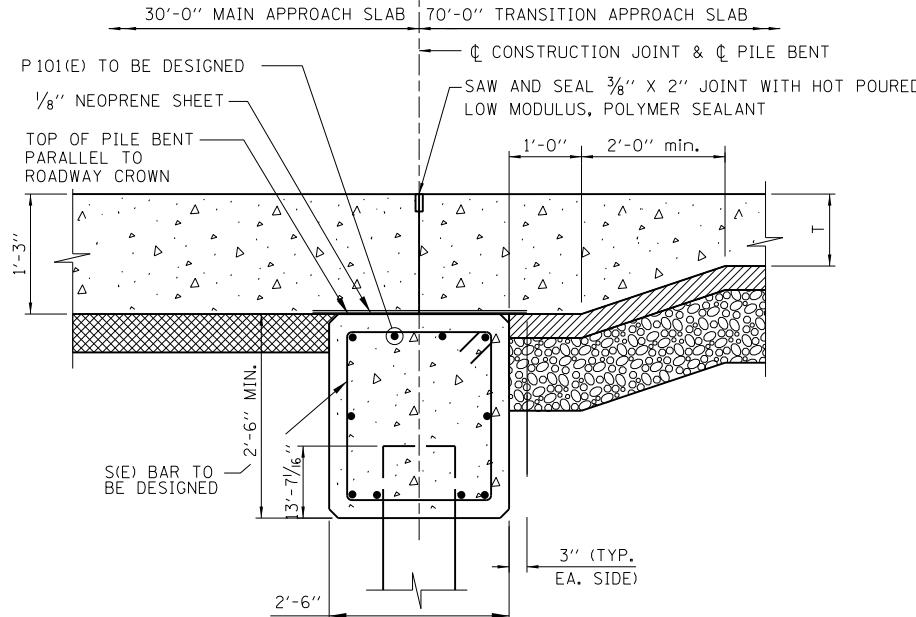
- SEE SHEET 1 (OF 4) OF THIS SERIES FOR NOTES ON THIS SHEET.
- THE DIMENSION T IS THE THICKNESS OF THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.

SHEET 2 OF 4

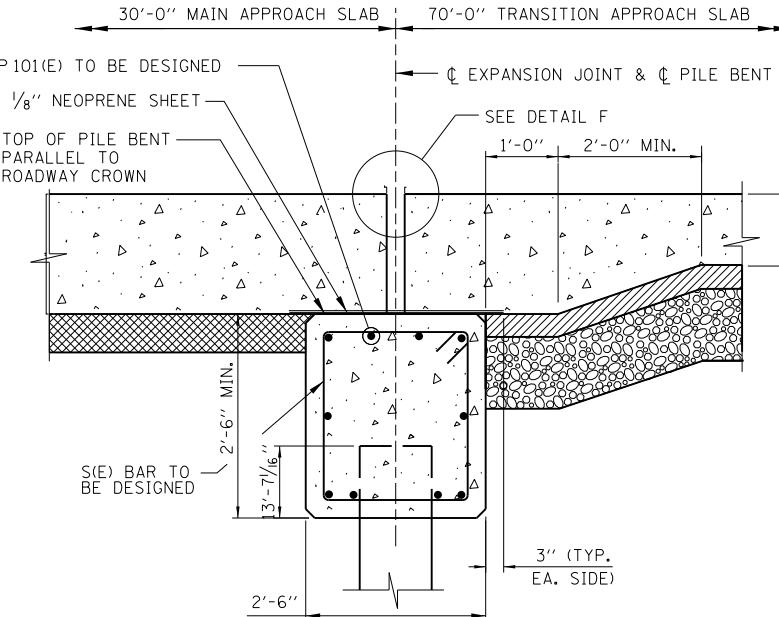


APPROACH SLAB TO J.P.C.
PAVEMENT, MAINLINE
3 LANES

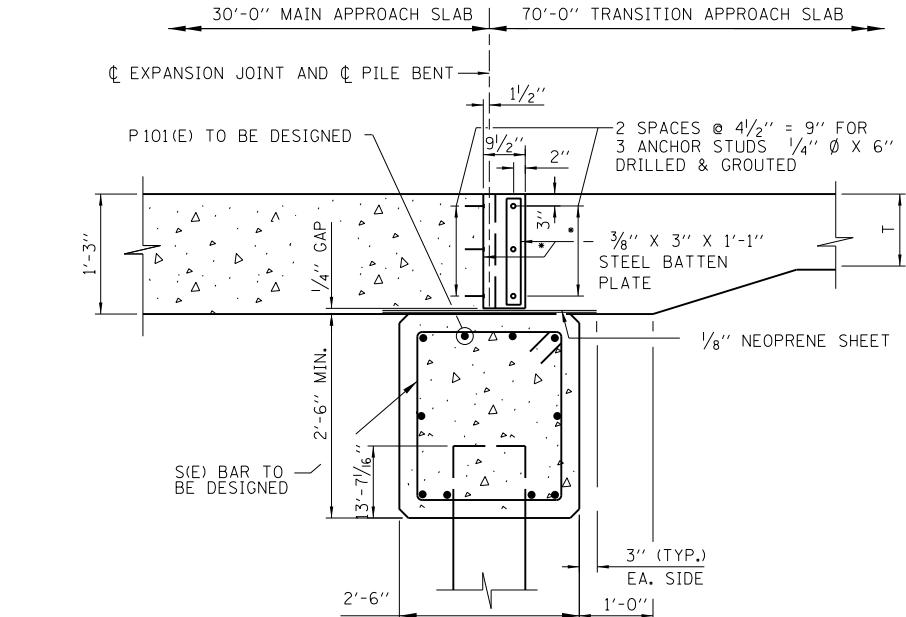
STANDARD G10-00



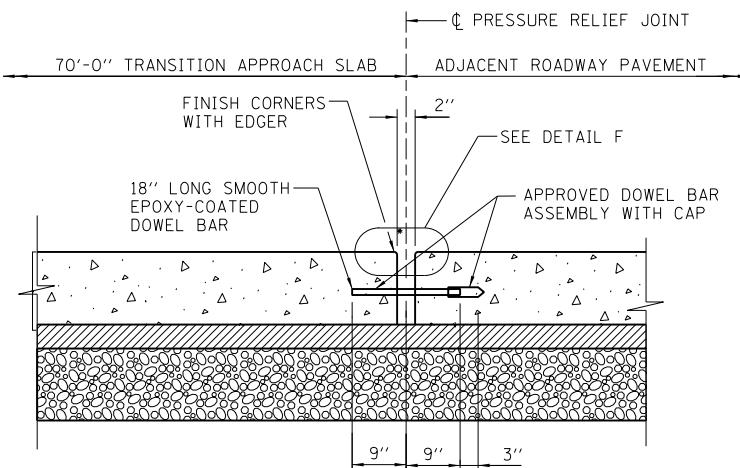
SECTION C-C
FOR NON-INTEGRAL ABUTMENT



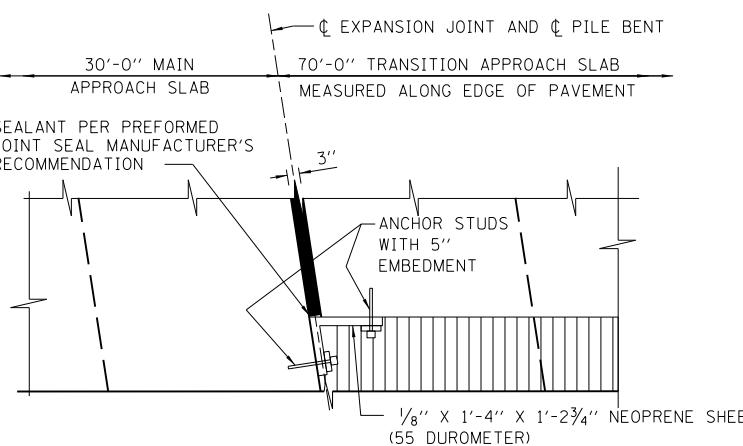
SECTION D-D
FOR INTEGRAL & SEMI-INTEGRAL ABUTMENT



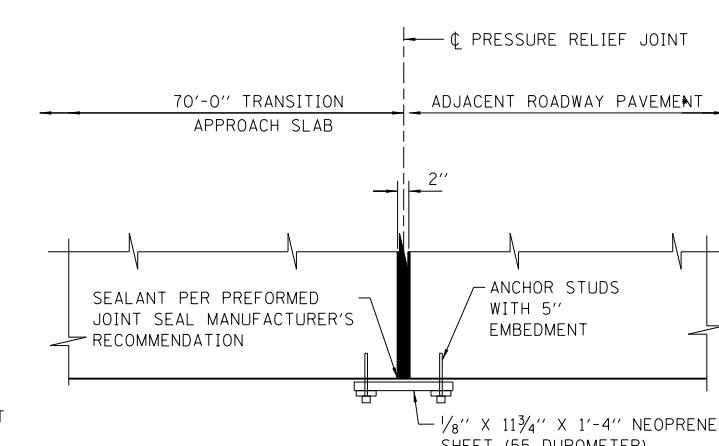
SECTION E-E
END ELEVATION OF EXPANSION JOINT



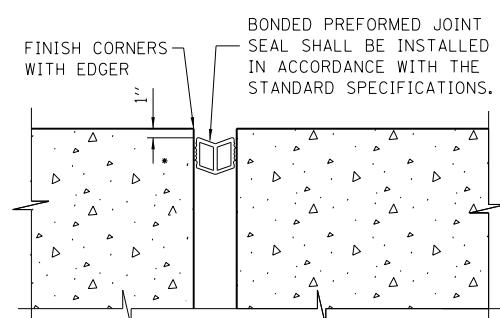
SECTION F-F
PRESSURE RELIEF JOINT



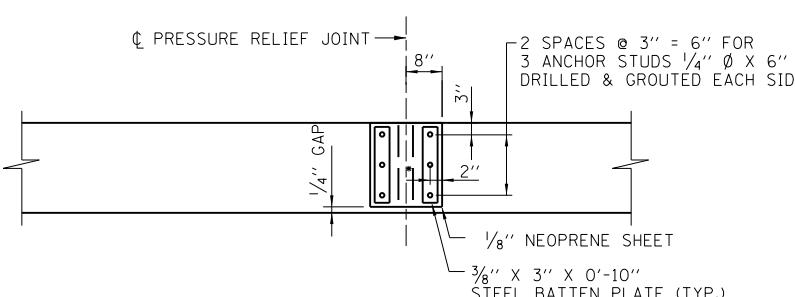
DETAIL B
END PLAN OF EXPANSION JOINT



DETAIL C
END PLAN OF PRESSURE RELIEF JOINT



DETAIL F
BONDED PREFORMED JOINT SEAL



VIEW G-G
END ELEVATION OF PRESSURE RELIEF JOINT

LEGEND:

	CONCRETE		SUBGRADE AGGREGATE
	WARM-MIX ASPHALT BASE COURSE		WARM-MIX ASPHALT SHOULDER
	PREFORMED JOINT SEAL		
	GRANULAR SUBBASE		

NOTES:

1. FOR REINFORCEMENT BARS IN APPROACH SLABS, SEE SHEETS 1, 2 AND 4 (OF 4) OF THIS SERIES.
2. IN SECTION E-E AND VIEW G-G, ANCHOR STUDS SHALL BE INSTALLED IN ACCORDANCE WITH SUBSECTION 1006.09 OF THE IDOT STANDARD SPECIFICATIONS. STEEL BATTEN PLATES, ANCHOR STUDS, NUTS AND WASHERS SHALL BE GALVANIZED.
3. THE THICKNESSES OF WARM-MIX ASPHALT BASE COURSE AND SUBGRADE AGGREGATE SHALL BE THE SAME AS THEY ARE FOR THE ADJACENT PAVEMENT SECTIONS.
4. THE DIMENSION T IS THE THICKNESS OF THE TRANSITION APPROACH SLAB AS DEFINED IN THE DESIGN PLANS.
5. SEE DESIGN PLANS FOR DETAILS AND QUANTITIES FOR PILE BENTS.

