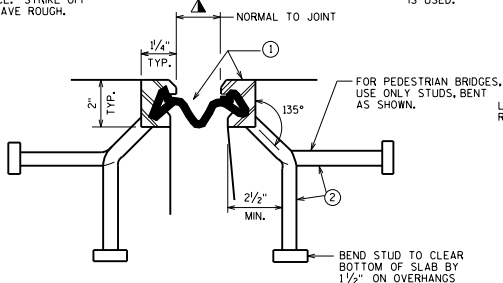


**TYPICAL SECTION THRU JOINT AT STEEL GIRDER**

NORMAL TO  $\phi$  SUBSTRUCTURE

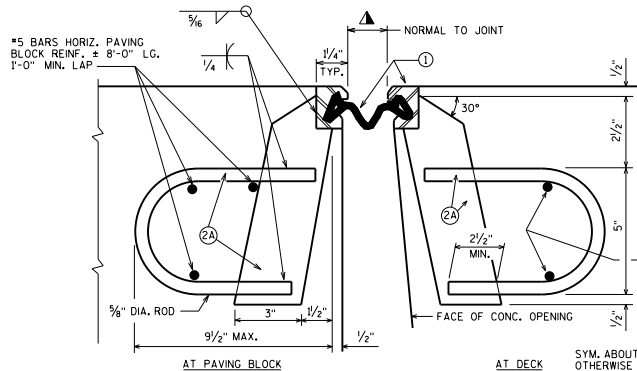
\* POUR CONC. ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

■ PAVING NOTCH IS 1'-0" WIDE BY 1'-4" DEEP IF STRUCTURAL APPROACH SLAB (STD. 12.12) IS USED.



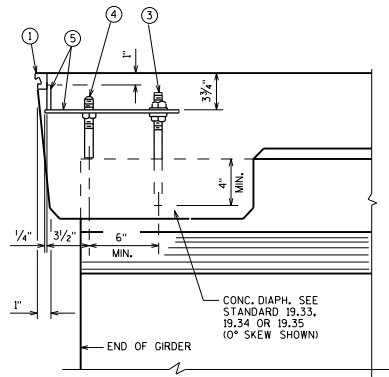
**SECTION THRU JOINT**

EXTERIOR GIRDER TO EDGE OF DECK, AND AT PARAPETS, MEDIANS AND SIDEWALKS



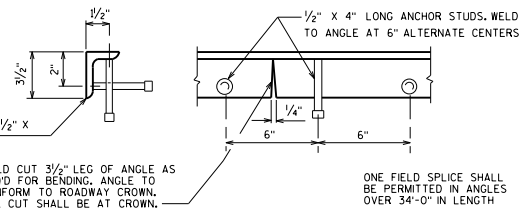
**SECTION THRU JOINT**

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



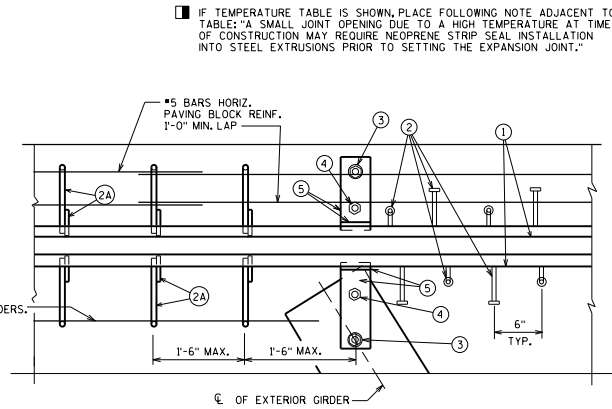
**PART SECTION THRU JOINT AT PRESTRESSED GIRDERS**

NORMAL TO  $\phi$  SUBSTRUCTURE



**PROTECTION ANGLE ARMOR**

SANDBLAST PROTECTION ANGLE AFTER FABRICATION PER NOTES. AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.



**PART PLAN**

**LEGEND**

- ▲ ① NEOPRENE STRIP SEAL (1-INCH) AND STEEL EXTRUSIONS. SET JOINT OPENING AT 1 3/4" WHEN EXPANSION LENGTH  $\leq$  230'-0". WHEN EXPANSION LENGTH  $>$  230'-0", PREPARE A TEMPERATURE TABLE SHOWING JOINT OPENINGS FROM 5°F TO 85°F IN 10°F INCREMENTS. ACCOUNT FOR PRESTRESSED GIRDER SHRINKAGE DUE TO CREEP WHEN DETERMINING THIS TABLE. JOINT OPENINGS GIVEN NORMAL TO JOINT. ■
- ② STUDS 3/4" DIA. X 6 3/4" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- ②A 1/2" THICK ANCHOR PLATE WITH 3/4" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- ③ 3/4" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. FOR PRESTRESSED GIRDERS, GROUT THREADED ROD INTO FIELD DRILLED HOLES ON  $\phi$  OF GIRDER. FOR STEEL GIRDERS, WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE, GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
- ④ 3/4" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- ⑤ FABRICATE SUPPORT FROM 3" X 1 1/2" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1/2" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4.
- ⑥ GALVANIZED PLATE 3/4" X 10" X 12'-2" LONG FOR SKEWS TO 45° AND 3'-0" LONG FOR SKEWS  $>$  45° WITH HOLES FOR NO. 7. FOR SINGLE SLOPE PARAPET. FOR SLOPED FACE PARAPET, SEE STANDARD 28.07.
- ⑦ 3/4" DIA. X 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. REQUIRE 1/16" BELOW PLATE SURFACE.
- ⑧ 3/4" DIA. X 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- ⑨ 3/4" DIA. X 2 1/4" GALVANIZED THREADED COUPLING.
- ⑩ SIDEWALK COVER PLATE 3/2" X 12'-0" WIDE FOR SKEWS TO 45° AND 3'-0" WIDE FOR SKEWS  $>$  45° X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.
- ⑪ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

**NOTES**

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

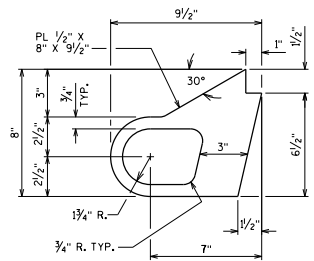
AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE B-...-... L".



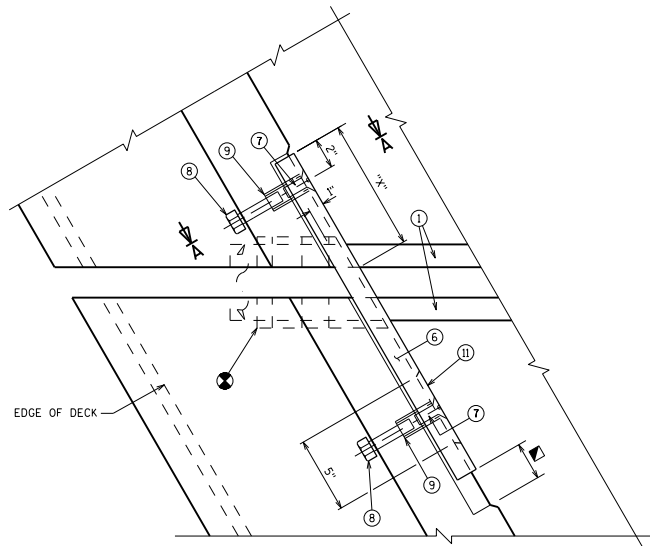
**ALTERNATE STRIP SEAL ANCHOR**

**STRIP SEAL EXPANSION JOINT DETAILS**

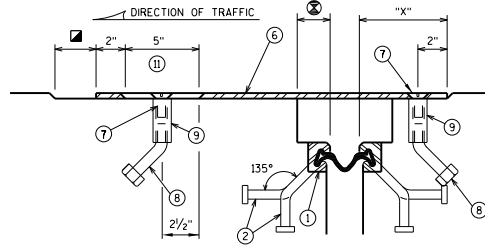


**BUREAU OF STRUCTURES**

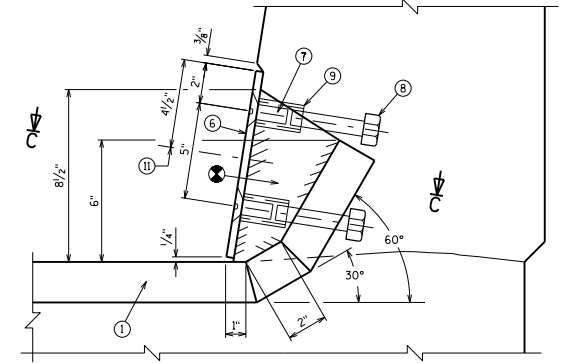
APPROVED: Bill Oliva DATE: 7-20



**PLAN AT PARAPET**  
SINGLE SLOPE PARAPET

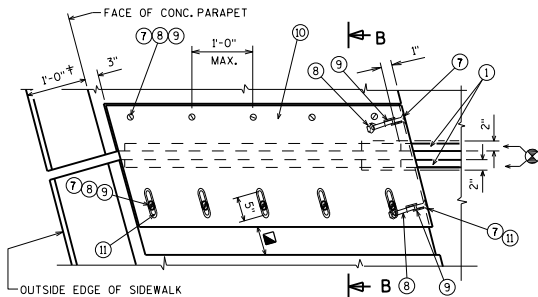


**SECTION C-C**



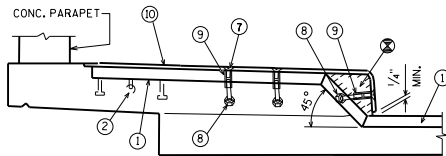
**SECTION A-A**  
SINGLE SLOPE PARAPET

"X" - VALUES IN INCHES		USE "X" = 6 1/2" FOR 0° SKEW											
SKEW	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
RHF	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	6 1/2	7	7	7 1/2	8
LHF	7	7 1/2	8	8 1/2	9	9 1/2	10 1/2	11	11 1/2	13	13 1/2	14 1/2	15 1/2

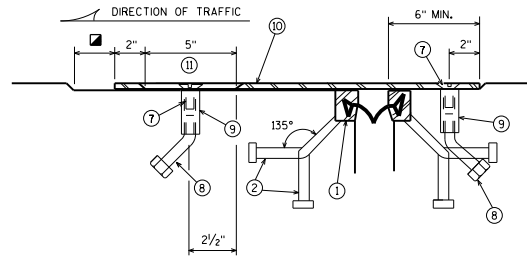


**PLAN AT SIDEWALK**

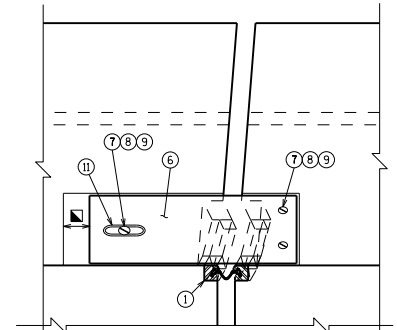
† 1'-2" WHEN "VERTICAL FACE PARAPET TYPE 'TX' IS USED



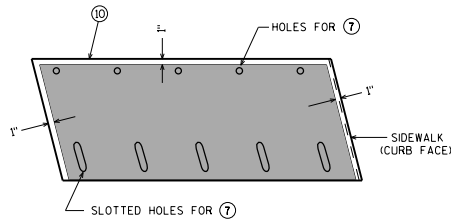
**SECTION AT SIDEWALK**



**SECTION B-B**



**VIEW OF PARAPET PLATES**  
FROM ROADWAY  
SINGLE SLOPE PARAPET



**PLAN OF SIDEWALK COVER PLATE**  
WITH SLIP-RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY (NOT ON CURB FACE).

**DESIGNER NOTES**

FOR NEW BRIDGES, JOINT TO BE DETAILED STRAIGHT.

FOR JOINT REPLACEMENT PROJECTS, JOINT SHALL BE DETAILED TO MATCH ORIGINAL CONFIGURATION (STRAIGHT OR KINKED) IN ORDER TO REDUCE SUBSTRUCTURE MODIFICATIONS REQUIRED.

PLAN DETAILS SHALL REMOVE ENOUGH PARAPET Laterally, and Full Height, to Ensure Durability of the Joint Replacement.

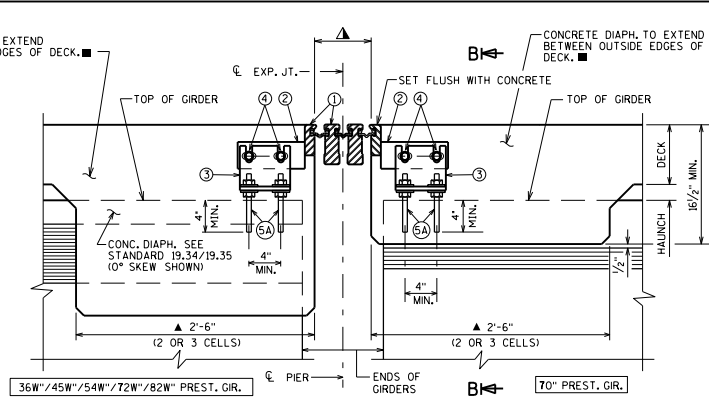
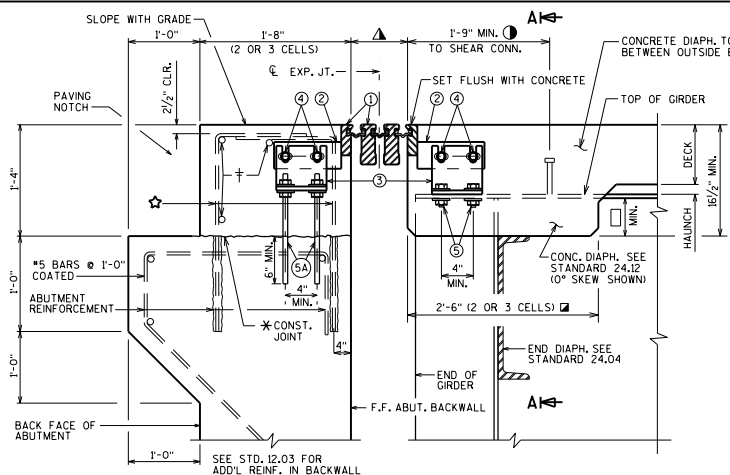
- ⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING
- ⊠ JOINT OPENING DIM. ALONG SKEW PLUS 1/2"

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

**STRIP SEAL COVER PLATES**  
SINGLE SLOPE PARA./SDWK.

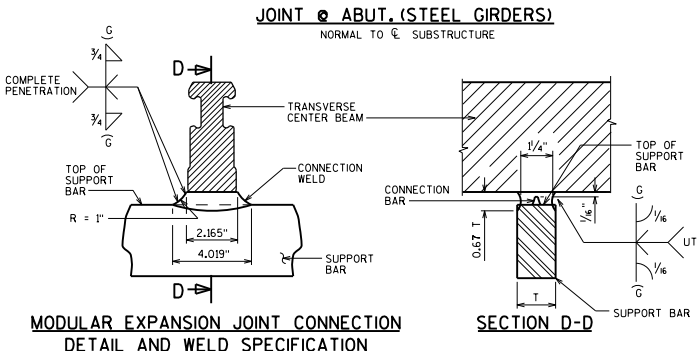


APPROVED: Bill Oliva DATE: 7-19

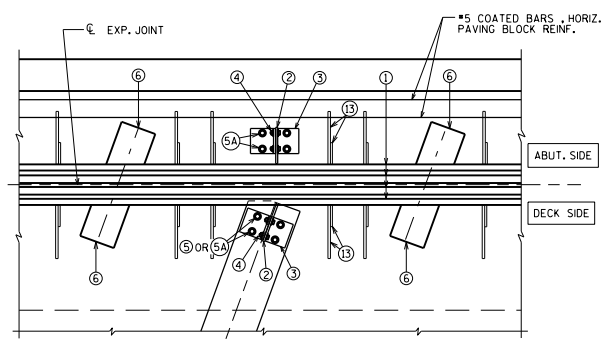


**JOINT @ PIER (PRESTRESSED GIRDERS)**  
NORMAL TO  $\epsilon$  SUBSTRUCTURE

- LEGEND**
- ① MODULAR EXPANSION JOINT DEVICE,  $\square$  CELLS.
  - ② 1/2" PLATE, ONE PER GIRDER MIN. PROVIDE 2 - 1" X 2" MIN. SLOTTED HOLES PLACED HORIZONTALLY FOR NO. 4.
  - ③ WT 6 X 29 OR EQUIVALENT BUILT UP T-SECTION, ONE PER GIRDER. PROVIDE 2 - 1" X 3" MIN. SLOTTED HOLES PLACED VERTICALLY IN WEB OF WT FOR BOLTS NO. 4.
  - ④ 3/4" DIA. HIGH STRENGTH BOLTS WITH NUTS & WASHERS. (A325 GALV.)
  - ⑤ 1/2" DIA. HIGH STRENGTH BOLTS WITH NUTS & WASHERS. FIELD DRILL HOLES IN GIRDER TOP FLANGE. (A325 GALV.)
  - ⑤A 3/4" DIA. THREADED ROD WITH 2 NUTS & WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES (GALV.)
  - ⑥ SUPPORT BOX ASSEMBLY FOR SUPPORT BAR (SPA. PER MANUFACTURER). FABRICATE BOX FROM 1/2" PLATES.
  - ⑦ 3/8" BULKHEAD PLATE. WELD TO NO. 1, NO. 8 AND NO. 14. WHEN CONDUIT IS PRESENT IN PARAPET OR SIDEWALK, ACCOMMODATE FOR BY PROVIDING OPENING IN NO. 7.
  - ⑧ INSIDE PLATE. FABRICATE FROM 3/8" PLATE.
  - ⑨ OUTSIDE PLATE. FABRICATE FROM 3/8" PLATE.
  - ⑩ 1/8" SQUARE BAR. WELD TO NO. 8 AS SHOWN.
  - ⑪ 3/4" DIA. X 4" LONG STUDS. WELD TO NO. 7, 8, & 14 AS SHOWN.
  - ⑫ 3/4" X 2" STAINLESS STEEL FLAT CTSK. SLOTTED HEAD CAP SCREWS W/ ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PL. SURFACE.
  - ⑬ 1/2" PLATE WITH 3/8" DIA. LOOP ANCHOR FABRICATED AS SHOWN. SPACED AT MANUFACTURER'S SPEC.
  - ⑭ INSIDE PLATE. FABRICATE FROM 3/8" PLATE
  - ⑮ ADIPRENE BUTTON. SEE DETAIL. SET IN OUTSIDE PLATE.

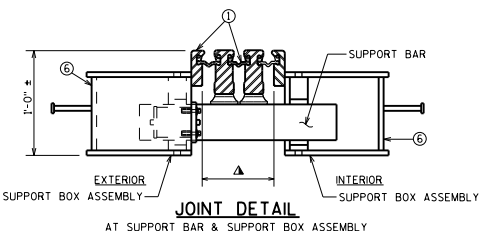


**JOINT @ ABUT. (STEEL GIRDERS)**  
NORMAL TO  $\epsilon$  SUBSTRUCTURE

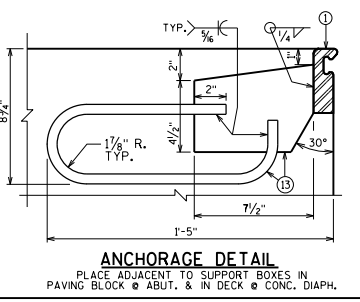


**PART PLAN**

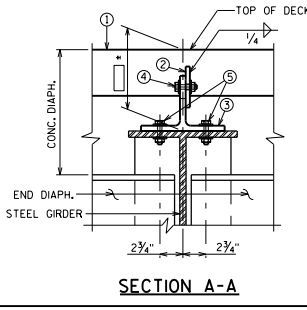
- AT LOCATION WHERE EXT. GIR. IS ADJACENT TO A RAISED SIDEWALK (STD.30.07), CONC. DIAPH. DOES NOT EXTEND OUT TO EDGE OF DECK, BUT IS TERMINATED AT INSIDE FACE OF EXT. GIR.
- † #5 COATED BARS, + 8'-0" LONG, 1'-0" MIN. LAP. CUT IN FIELD TO CLEAR JOINT SUPPORT SYSTEM AS REQ'D.
- \* POUR CONC. ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONC. IS IN PLACE. STRIKE OFF & LEAVE ROUGH.
- ① DIMENSION IS PARALLEL TO  $\epsilon$  GIRDER.
- ▲ MANUFACTURER'S RECOMMENDED JOINT OPENING BASED ON THE TEMPERATURE ON THE DAY OF PLACEMENT PER TEMPERATURE TABLE. THE MODULAR EXPANSION DEVICE SHALL HAVE THE NUMBER OF CELLS AS INDICATED IN (Q).
- ☆ (2) COATED L-SHAPED ADHESIVE ANCHORS NO. 5 BAR, EMBED 12" IN CONCRETE. SPACE AT 1'-0". PLACE ADHESIVE ANCHORS AFTER MODULAR JOINT IS IN POSITION.
- TOP FLANGE WIDTH WITHIN LIMITS OF CONC. DIAPH. SHALL BE  $\leq 20^\circ$  FOR SKEWS  $\leq 30^\circ$
- ▲ FOR PRESTRESSED GIRDERS, PLACE THE FOLLOWING NOTE ON PLANS: "JOINT MANUFACTURER SHALL INFORM AND PROVIDE NECESSARY DETAILS TO THE PRESTRESSED GIRDER FABRICATOR, WHEN FORM-OUT OF THE TOP FLANGE IS REQ'D. TO ALLOW PLACEMENT OF SUPPORT BOX ASSEMBLY."



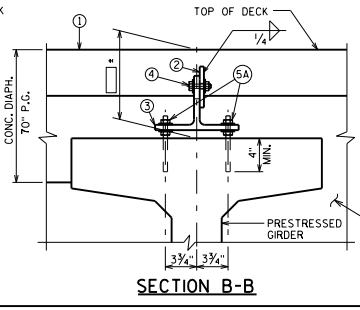
**JOINT DETAIL**  
AT SUPPORT BAR & SUPPORT BOX ASSEMBLY



**ANCHORAGE DETAIL**  
PLACE ADJACENT TO SUPPORT BOXES IN PAVING BLOCK @ ABUT. & IN DECK @ CONC. DIAPH.



**SECTION A-A**



**SECTION B-B**

**TEMP. TABLE**

TEMPERATURE TABLE FOR SETTING JOINT OPENINGS TO BE DETERMINED BY JOINT MANUFACTURER WITH THE FOLLOWING DESIGN DATA:

1.  $\square$  IN. OF MOVEMENT PER 10° F
2. MEDIAN TEMPERATURE OF 45° F
3. TEMP. RANGE IN TABLE FROM (5°F) TO (85°F) FOR PRESTRESSED CONCRETE GIRDERS AND FROM (-5°F) TO (+85°F) FOR STEEL GIRDERS.
4. ADJUST INITIAL JOINT OPENINGS BY A REDUCTION OF 1/2" IN. WHICH ACCOUNTS FOR SHRINKAGE (CREEP) OF THE SUPERSTRUCTURE OVER TIME, TO PRODUCE FINAL JOINT OPENINGS FOR TABLE.

A TABLE OF JOINT OPENINGS BASED ON ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INCLUDE ITEM 4. FOR PRESTRESSED GIRDER STRUCTURES ONLY. SEE CHAPT. 28 IN BRIDGE DESIGN MANUAL FOR ADJUSTMENT FACTOR.

- STANDARD COVERS:**
- SKEWS  $\leq 30^\circ$
  - 2 OR 3 CELL MODULAR EXPANSION JOINTS
  - STEEL GIRDER BRIDGES
  - PRESTRESSED GIRDER BRIDGES (70", 36", 45", 54", 72" AND 82" SECTION)

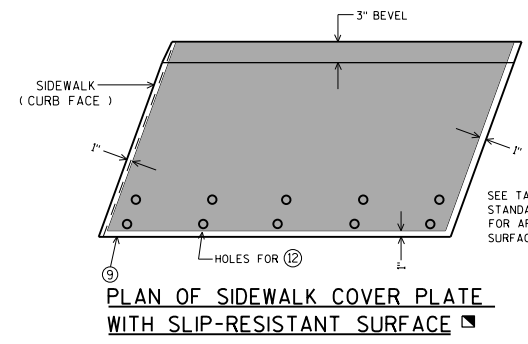
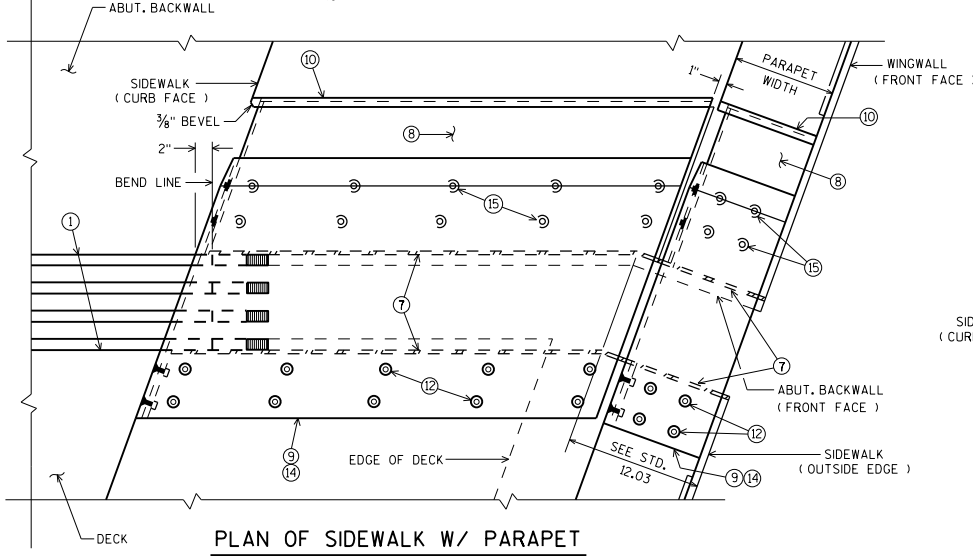
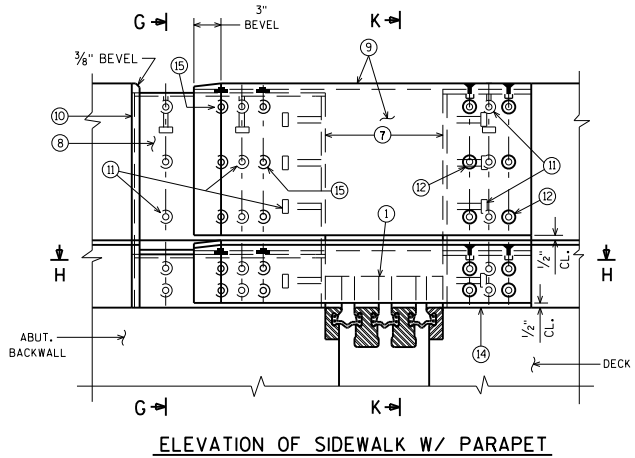
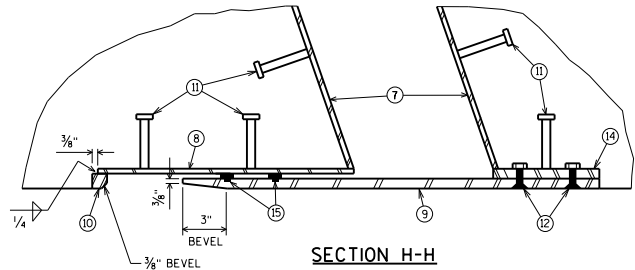
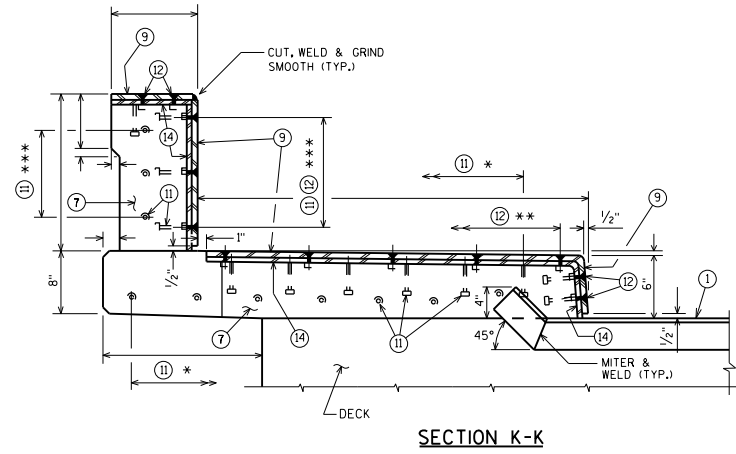
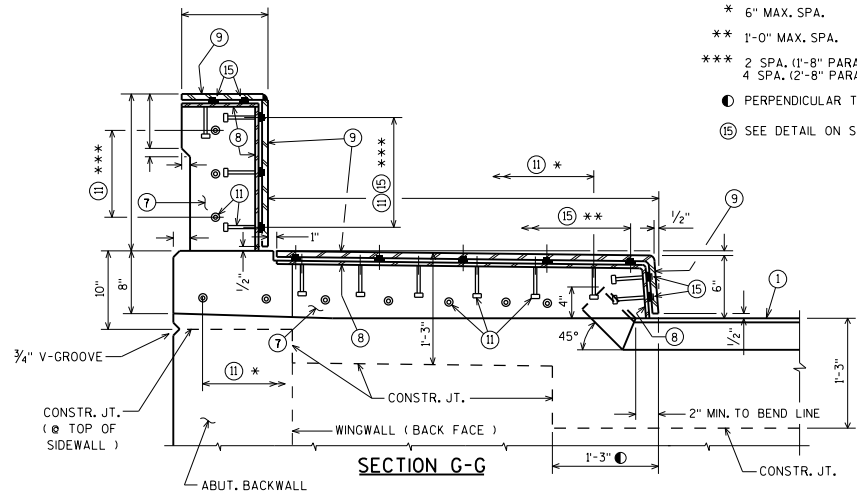
- NOTES**
- ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE GLAND.
  - AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.
  - NO EXPANSION JOINT PROTRUSIONS PERMITTED ABOVE ROADWAY SURFACE, ON PARAPET ROADWAY FACE OR ABOVE SIDEWALK SURFACE IF OR RAISED SIDEWALK.
  - THE EXPANSION JOINT SEALS SHALL BE PLACED, BONDED & SEALED AS RECOMMENDED BY THE MANUFACTURER. FORM WORK SHALL BE PLACED BETWEEN THE SUPPORT BOXES TO PREVENT CONCRETE INTRUSION INTO THE SUPPORT BOX. A TECHNICAL REPRESENTATIVE OF THE MANUFACTURER SHALL BE PRESENT DURING INSTALLATION. PRIOR TO SETTING THE JOINT ASSEMBLY INTO POSITION, THE PROJECT ENGINEER SHALL DETERMINE THE PROPER JOINT OPENING.
  - EXPANSION JOINT EXTRUSIONS SHALL BE FABRICATED TO CONFORM TO ROADWAY CROWN & GRADE. FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.
  - SANDBLAST BARS, PLATES, WT-SECTION, ANCHORAGE LOOP & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSQC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THIS ASSEMBLY SHALL BE HOT DIPPED GALVANIZED.
  - ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS, PARAPET PLATES, SIDEWALK PLATES, AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE MODULAR B-1", I.F.
  - BAR STEEL REINF. IN DECK AND CONC. DIAPHRAGM SHALL BE RESPAVED AS NECESSARY TO ALLOW PLACEMENT OF JOINT ASSEMBLY. TOP TRANSVERSE BARS, ADJACENT TO MOD. JT., TO BE CUT AND PLACED BETWEEN JT. SUPPORT SYSTEM.

**MODULAR EXPANSION JOINT DETAILS**

**BUREAU OF STRUCTURES**

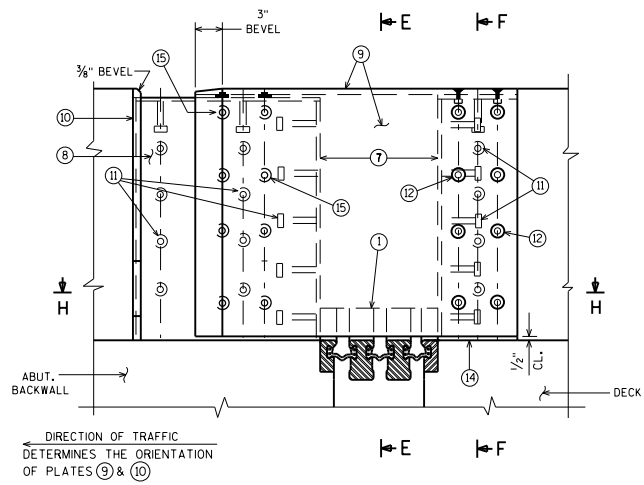
APPROVED: *Bill Oliva* DATE: 1-21

STANDARD 28.03

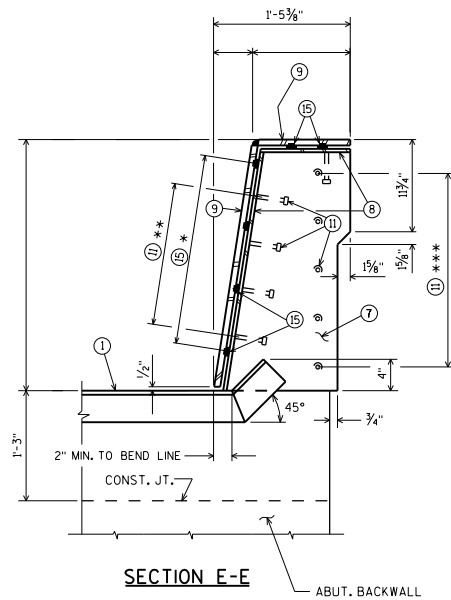


■ PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY (NOT ON CURB FACE). GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

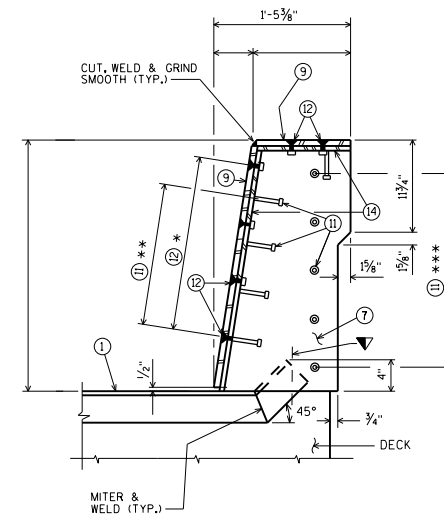
<b>COVER PLATES FOR SIDEWALK W/ CONC. PARA.</b>	
<b>BUREAU OF STRUCTURES</b>	
APPROVED: <u>Scot Becker</u>	DATE: <u>7-11</u>



**ELEVATION OF SINGLE SLOPE PARAPET**

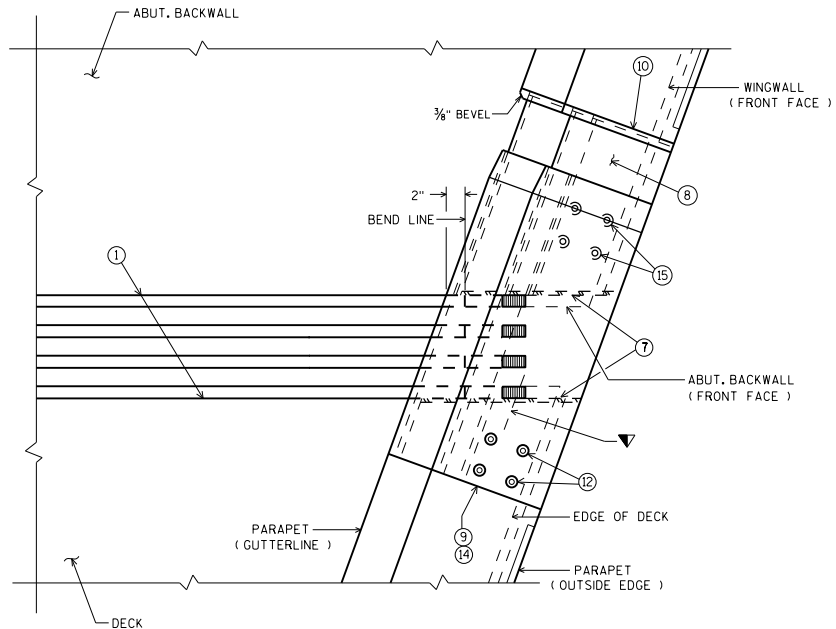


**SECTION E-E**

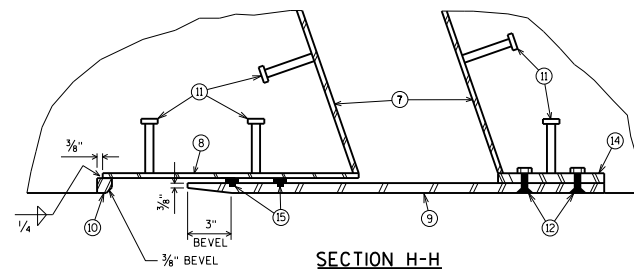


**SECTION F-F**

CROSS SECTION SHOWN FOR 32", 36", AND 42" SINGLE SLOPE PARAPET. DETAILS FOR 56" PARAPET ARE SIMILAR.



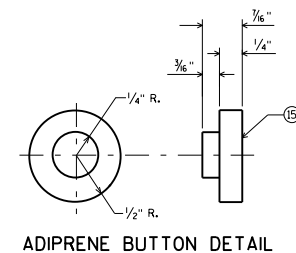
**PLAN OF SINGLE SLOPE PARAPET**



**SECTION H-H**

- \* 3 EQ. SPA. (32")
- 4 EQ. SPA. (36")
- 5 EQ. SPA. (42")
- 7 EQ. SPA. (56")
- \*\* 3 SPA. (32")
- 4 SPA. (36")
- 5 SPA. (42")
- 7 EQ. SPA. (56")
- \*\*\* 4 SPA. (32")
- 5 SPA. (36")
- 6 SPA. (42")
- 8 SPA. (56")

FOR STRUCTURES WITH SKEWS, ADD NOTE TO PLANS: "MITER EXTRUSION ENDS AS REQ'D TO PROVIDE CLEARANCE"



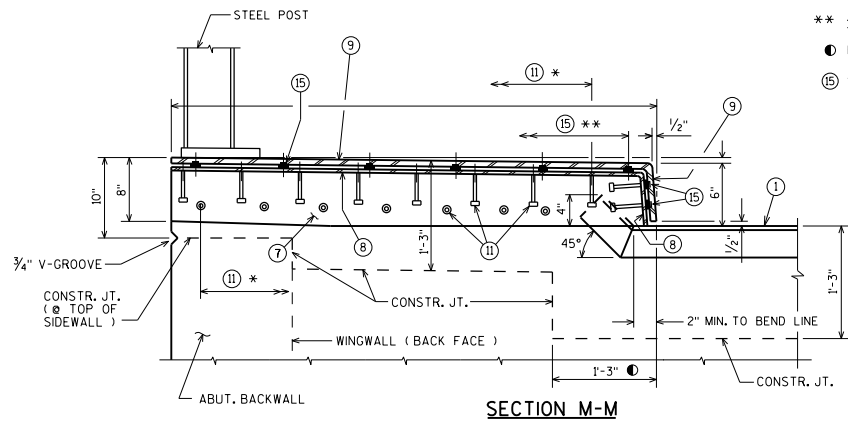
**ADIPRENE BUTTON DETAIL**

**COVER PLATES FOR SINGLE SLOPE PARAPET**

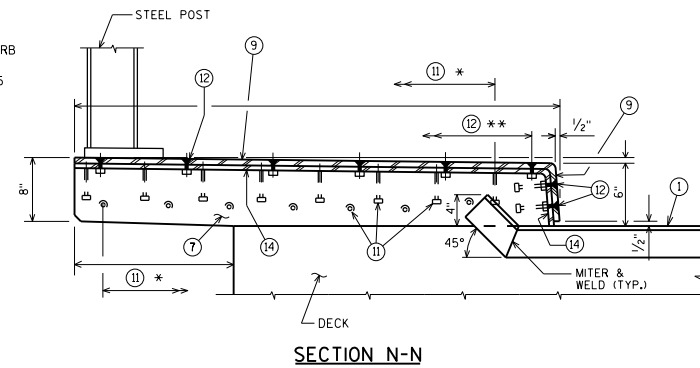
**BUREAU OF STRUCTURES**

APPROVED: Bill Oliva DATE: 7-18

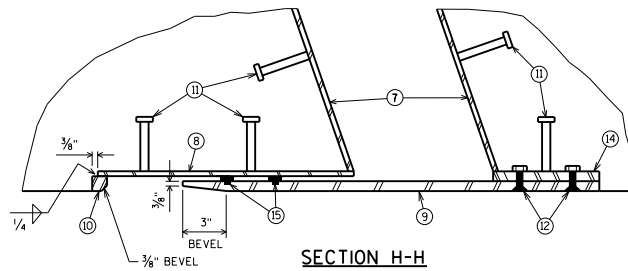
- \* 6" MAX. SPA.
- \*\* 1'-0" MAX. SPA.
- ① PERPENDICULAR TO FACE OF CURB
- ⑮ SEE DETAIL ON STANDARD 28.05



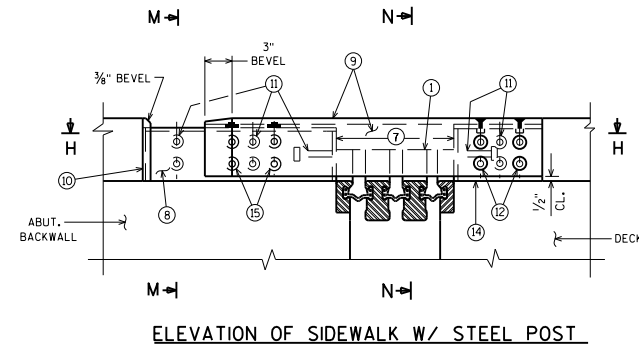
**SECTION M-M**



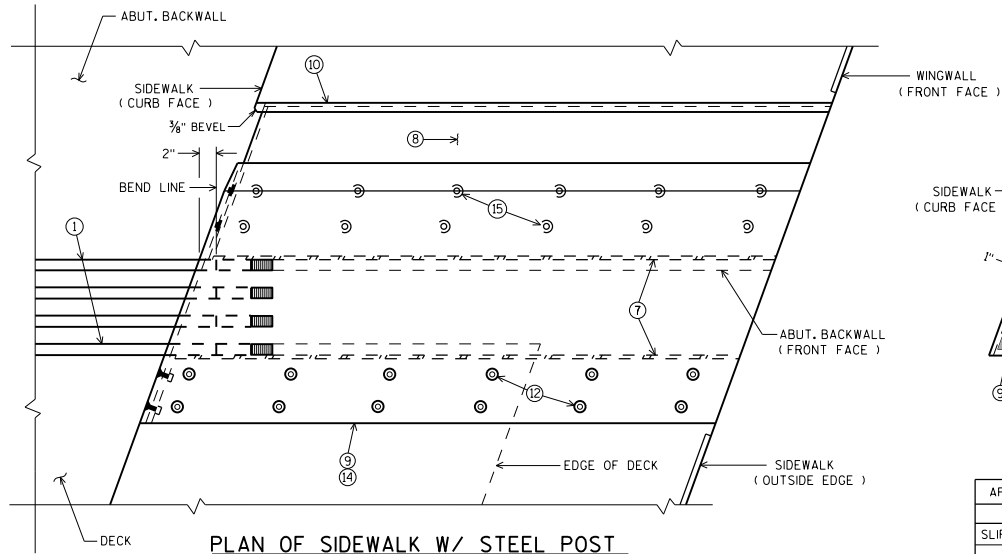
**SECTION N-N**



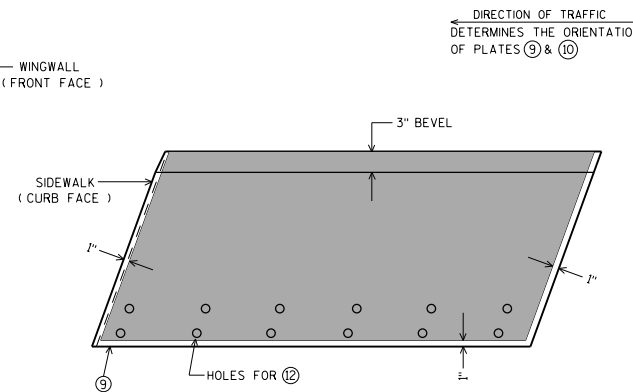
**SECTION H-H**



**ELEVATION OF SIDEWALK W/ STEEL POST**



**PLAN OF SIDEWALK W/ STEEL POST**



**PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE**

DIRECTION OF TRAFFIC  
DETERMINES THE ORIENTATION  
OF PLATES ⑨ & ⑩

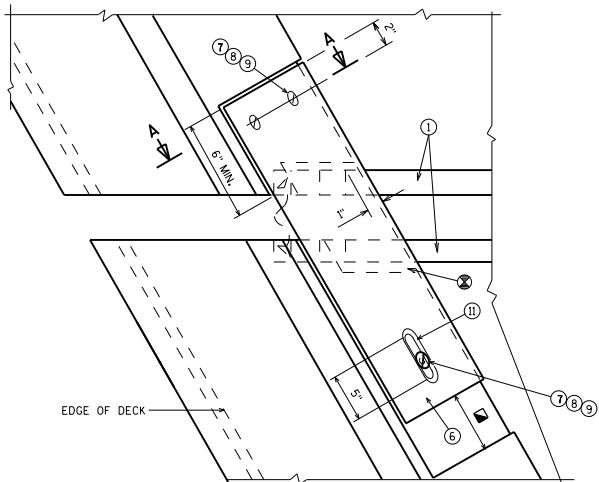
PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY (NOT ON CURB FACE). GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

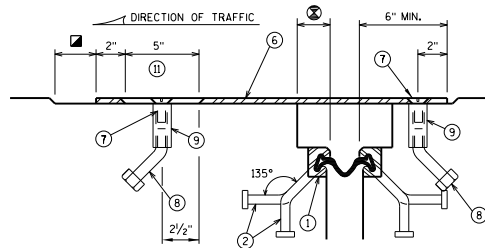
**COVER PLATES FOR SIDEWALK W/ STEEL RAIL**

**BUREAU OF**  
**STRUCTURES**

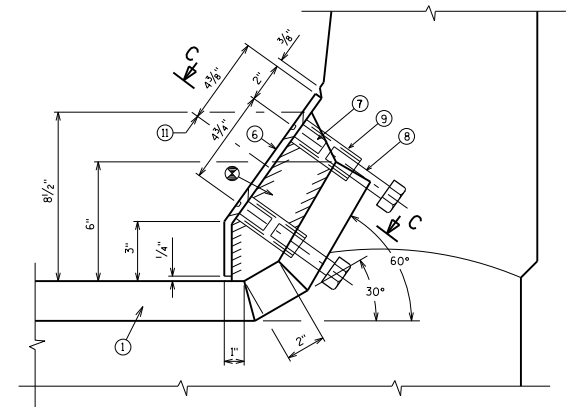
APPROVED: Scot Becker DATE: 7-11



**PLAN AT PARAPET**  
SLOPED FACE PARAPET

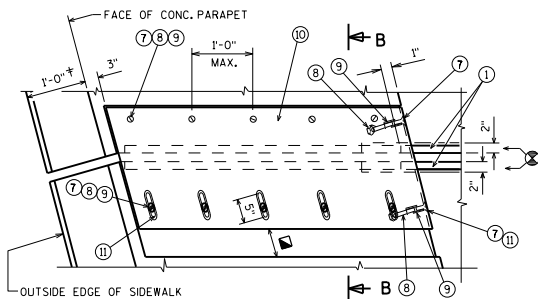


**SECTION C-C**



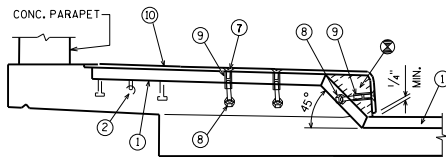
**SECTION A-A**  
SLOPED FACE PARAPET

(6) GALVANIZED PLATE  $\frac{3}{8}$ " x  $10\frac{1}{2}$ " x (2'-2" LONG FOR SKEWS TO 45° AND 3'-0" LONG FOR SKEWS  $\geq$  45°) WITH HOLES FOR NO. 7. BEND AS SHOWN.

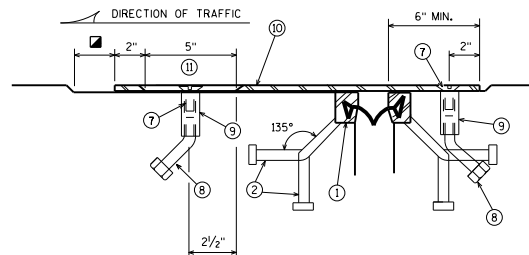


**PLAN AT SIDEWALK**

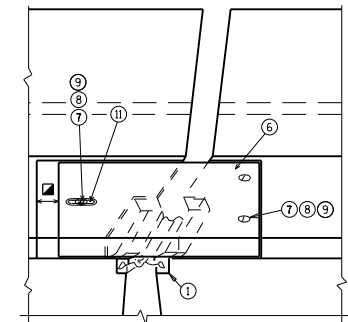
† 1'-2" WHEN "VERTICAL FACE PARAPET TYPE 'TX' IS USED



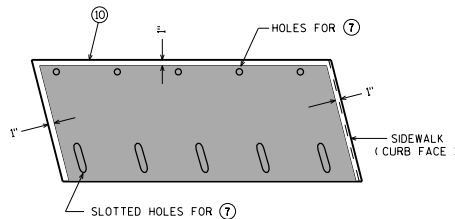
**SECTION AT SIDEWALK**



**SECTION B-B**



**VIEW OF PARAPET PLATES FROM ROADWAY**  
SLOPED FACE PARAPET



**PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE**

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY (NOT ON CURB FACE).

**DESIGNER NOTES**

FOR JOINT REPLACEMENT PROJECTS, JOINT SHALL BE DETAILED TO MATCH ORIGINAL CONFIGURATION (STRAIGHT OR KINKED) IN ORDER TO REDUCE SUBSTRUCTURE MODIFICATIONS REQUIRED.

PLAN DETAILS SHALL REMOVE ENOUGH PARAPET Laterally, AND FULL HEIGHT, TO ENSURE DURABILITY OF THE JOINT REPLACEMENT.

- ⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING
- ⊠ JOINT OPENING DIM. ALONG SKEW PLUS  $\frac{1}{2}$ "

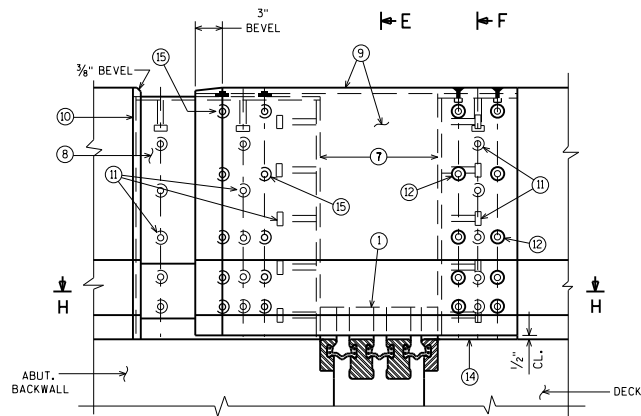
APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

**STRIP SEAL COVER PLATES SLOPED FACE PARA./SDWK.**



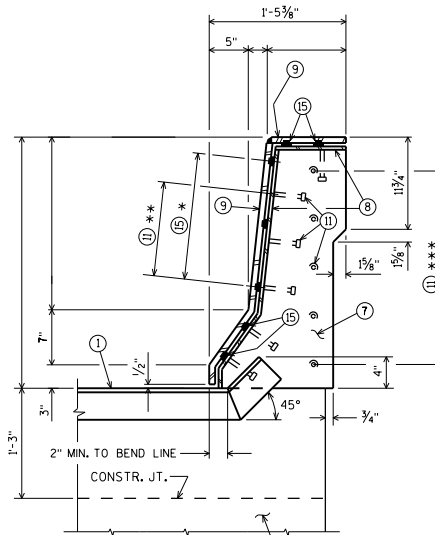
APPROVED: Bill Oliva DATE: 1-20





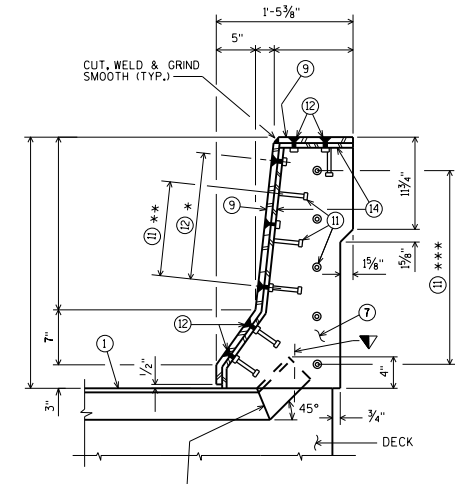
DIRECTION OF TRAFFIC  
 DETERMINES THE ORIENTATION  
 OF PLATES 9 & 10

**ELEVATION OF PARAPET LF/HF**



**SECTION E-E**

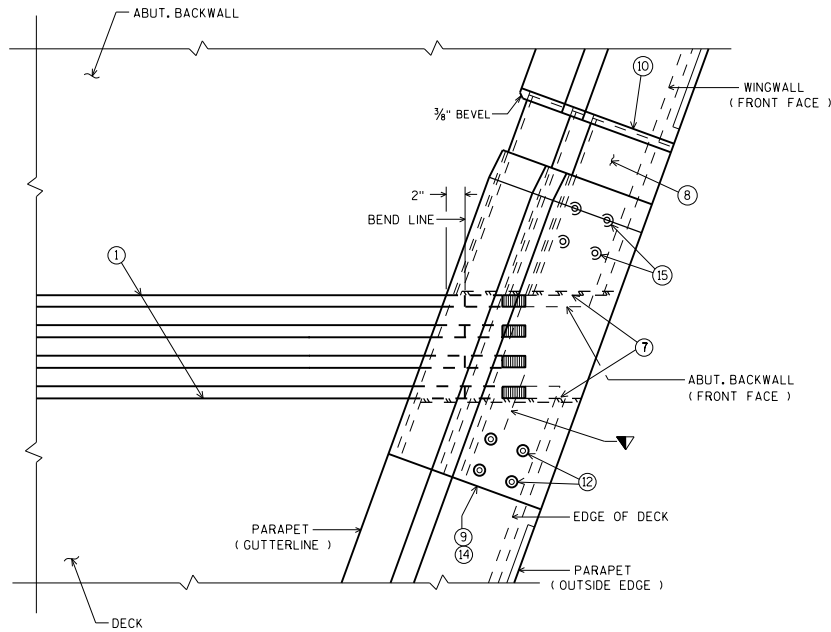
ABUT. BACKWALL



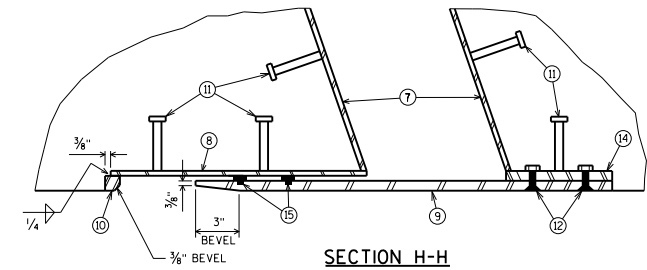
**SECTION F-F**

CUT, WELD & GRIND  
 SMOOTH (TYP.)

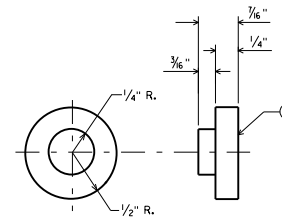
MITER &  
 WELD (TYP.)



**PLAN OF LF/HF**



**SECTION H-H**



**ADIPRENE BUTTON DETAIL**

- \* 2 EQ. SPA. (LF)  
 4 EQ. SPA. (HF)
- \*\* 2 SPA. (LF)  
 4 SPA. (HF)
- \*\*\* 4 SPA. (LF)  
 6 SPA. (HF)

▼ FOR STRUCTURES WITH SKEWS ADD NOTE  
 TO PLANS: "MITER EXTRUSION ENDS AS  
 REQ'D TO PROVIDE CLEARANCE"

**COVER PLATES FOR  
 PARAPET 'LF/HF'**



**BUREAU OF  
 STRUCTURES**

APPROVED: Bill Oliva DATE: 7-18