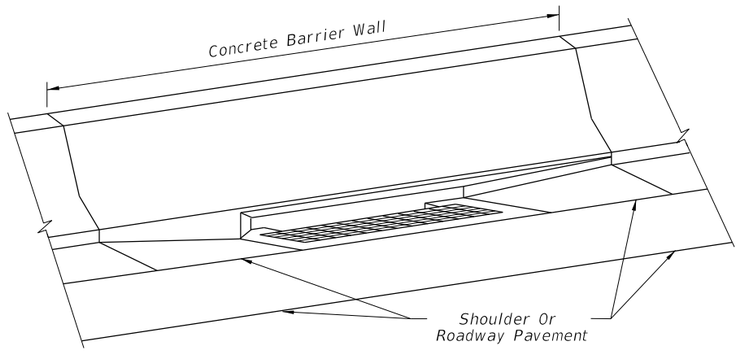
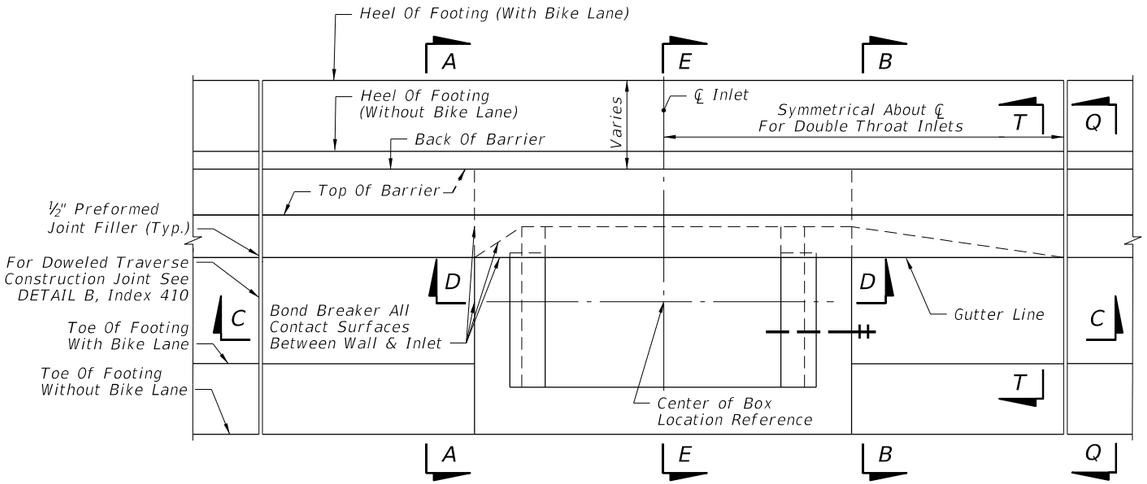
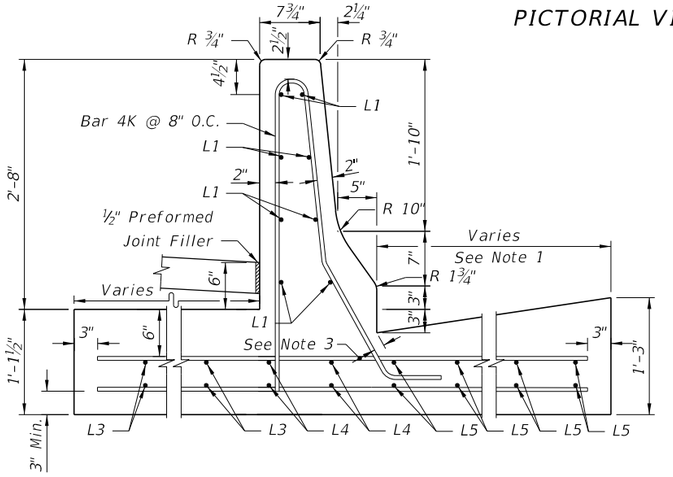


PICTORIAL VIEW

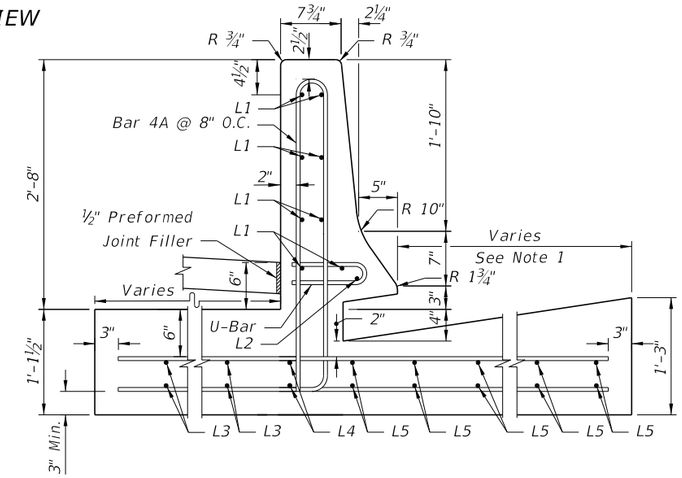


NOTE: For Sections QQ & TT, see Index 410.

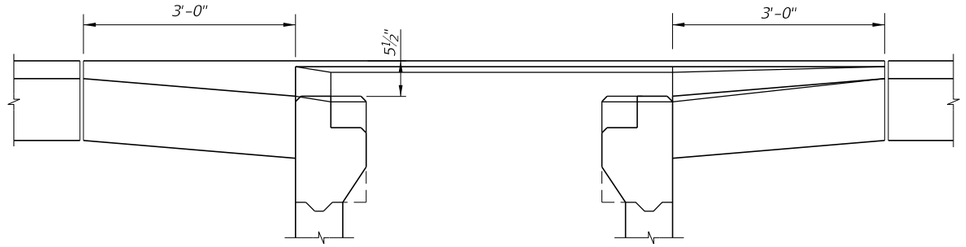
PLAN VIEW



SECTION AA



SECTION BB



SECTION CC

NOTES:
1. Distance = 1'-6" With Bike Lane, Or 2'-6" Without Bike Lane.
2. For Double Throat Inlet, Section BB replaces Section AA.
3. Field Bend Bar 4K To Maintain 2" Minimum Concrete Cover.

GENERAL NOTES

1. This inlet to be used in conjunction with Concrete Barrier Wall, Curb and Gutter, Index No. 410. The inlet is suitable for bicycle and occasional pedestrian traffic with extended crossbar or bar stub (see INSETS B & B ALTERNATE). Inlet should not be placed in a pedestrian way.
2. All reinforcing is Grade 60 bars. For equivalent area of welded wire fabric for inlet, see Index No. 201. Reinforcing shall have 2" min. cover unless otherwise shown. Bars shall be trimmed or bent to provide 1½" clearance around pipe openings. Cost for additional reinforcing in barrier wall to be included in cost of concrete barrier wall.
3. Barrier wall shall be Class II Concrete, finished surface in accordance with General Note 1, Sheet 1, Index No. 410.
4. All exposed edges and corners shall be 3/4" chamfer or tooled to 1/4" radius.
5. A flat 18"x2½" drainage slot shall be constructed at the inlet centerline when the inlet is located in a curb sag. For drainage slot construction, no more than two bars shall be trimmed or deleted such as type: 4A, 4K, and U-Bar. On each side of drainage slots, vertical & horizontal bars shall be placed to provide 2" concrete cover.
6. Recommended maximum pipe sizes are 18" longitudinal and 30" transverse. For larger pipe, use Alternate B bottoms, Index No. 200.
7. Grates can be fabricated with reticuline bars or with either 1/2"℄ welded or 3/8"℄ electroforged cross bars and bearing bars as detailed on Sheet 3.
8. When Alternate G grate is specified in plans, the grate is to be hot-dip galvanized after fabrication according to Specification 962-9.
9. For Pay Item purposes, the depth of the barrier wall inlet shall be computed using the center of box grate elevation, less the flow line elevation of the lowest pipe flow line or to the top of the sump floor elevation.
10. All dimensions are for both precast and C-I-P inlets unless otherwise noted.
11. Inlets to be paid for under the contract unit price for Inlets, Barrier Wall, Rigid, Curb & Gutter, Each.
12. Concrete Barrier Wall to be paid for under the contract unit price for Shoulder Concrete Barrier Wall, Rigid-Curb & Gutter, LF.

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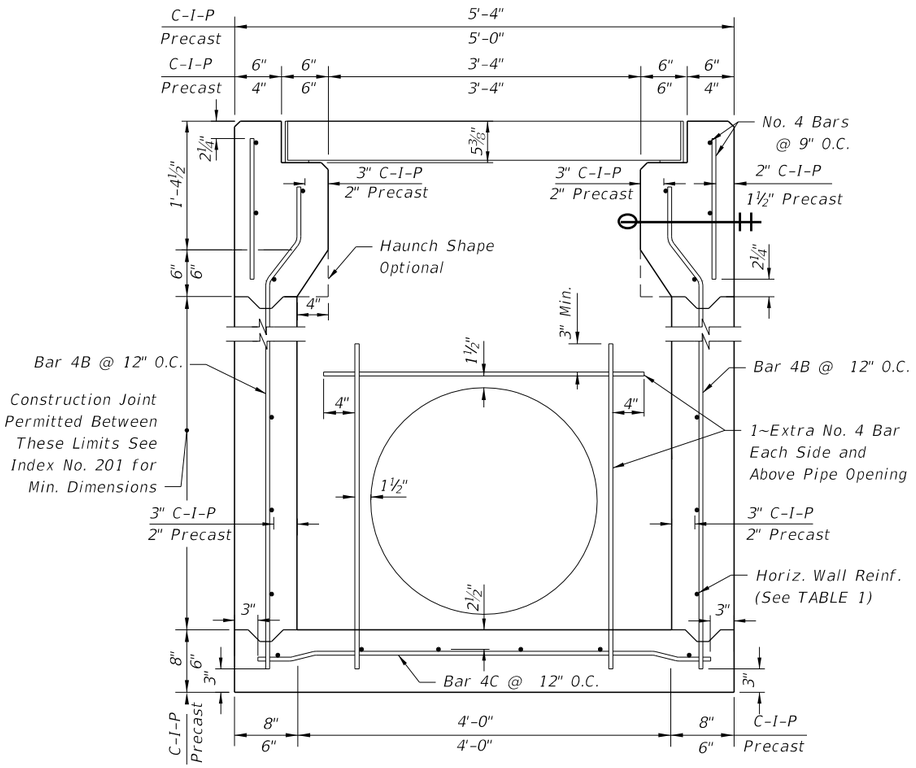
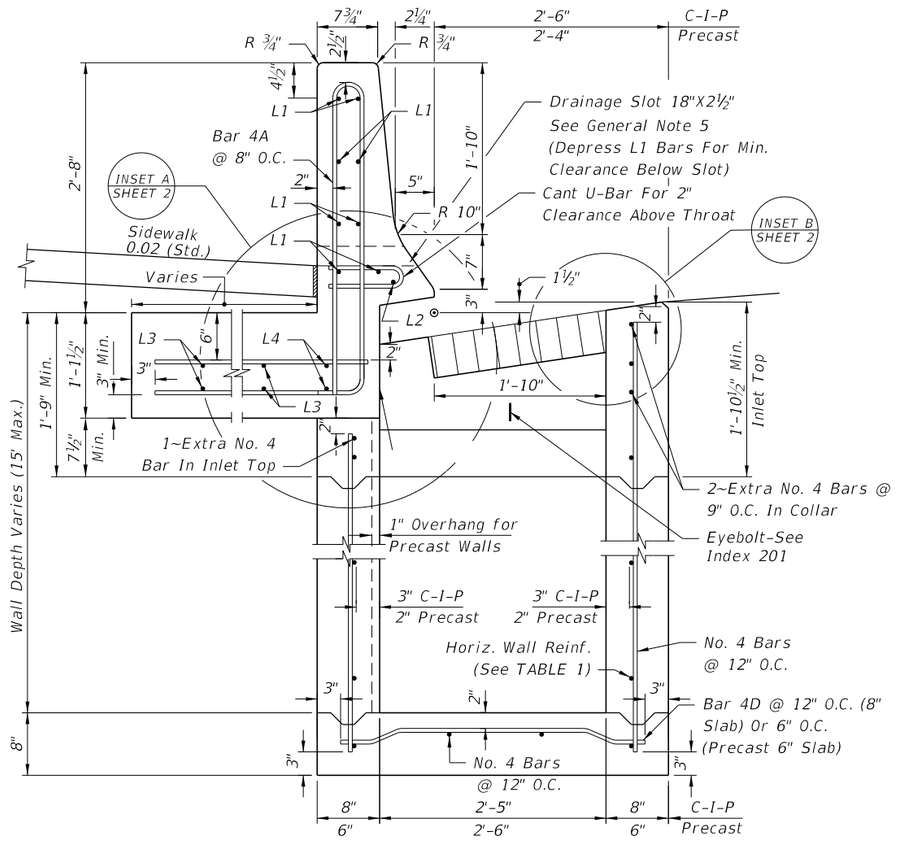


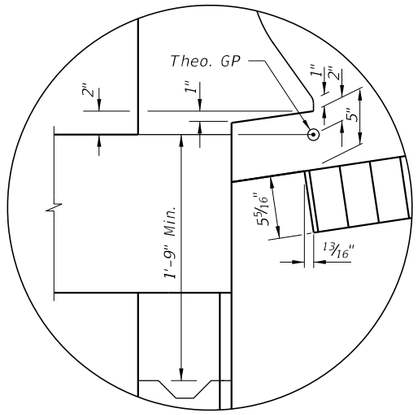
(18" Dia. Pipe Opening Shown)

SECTION DD

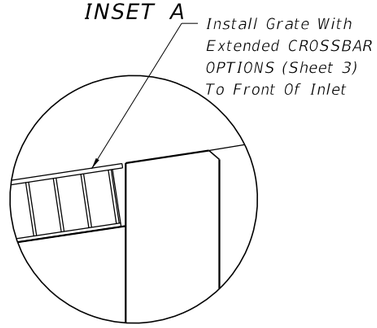


(Pipe Opening Not Shown)

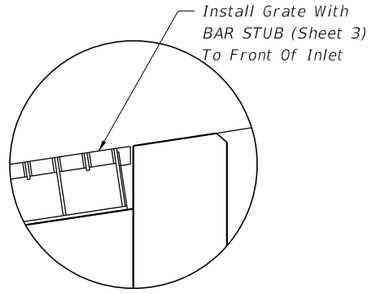
SECTION EE



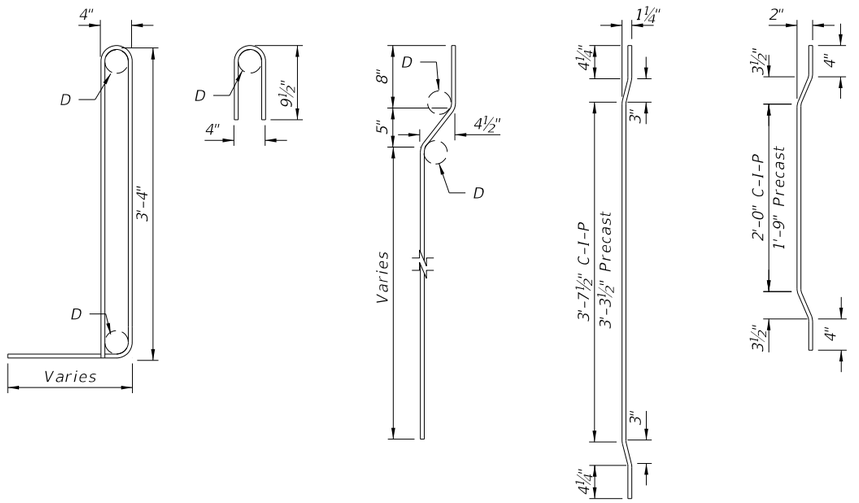
INSET A



INSET B



INSET B (ALTERNATE)



BAR 4A U-BAR BAR 4B BAR 4C BAR 4D

BAR BENDING DIAGRAMS

REINFORCING NOTES:

1. Bars L1: Length 11'-1", Straight @ 8" O.C.
2. Bars L2: Length: 8'-4" (Single Throat) 11'-0" (Double Throat) @ 8" O.C.
3. Bars L3 & L4: Length 11'-1" Field Bend For 4" Drop (Top Bars) 3" Drop (Bottom Bars) @ 8" O.C.
4. Bars L5: Length 2'-8" Field Bend For Drop Same As L3 & L4 @ 8" O.C.
5. U Bars @ 8" O.C.

WALL DEPTH		SCHEDULE	AREA	MAX. SPACING	
C-I-P	PRECAST		(in.²/ft.)	BARS	WWR
0'-4'	0'-3'	A12	0.20	12"	8"
4'-9'	3'-6'	A6	0.20	6"	5"
9'-15'	6'-10'	B5.5	0.24	5½"	5"
	10'-15'	C6.5	0.37	6½"	6"

HORIZONTAL WALL REINFORCING SCHEDULE (TABLE 1)

NOTES:

1. For DOWELED TRANSVERSE CONSTRUCTION JOINT WHEN ABUTTING SEGMENT(S) LESS THAN 40' IN LENGTH, see DETAIL B, Index 410.
2. For Additional Information on "STANDARD BAR BENDING DETAILS," See Index 21300.

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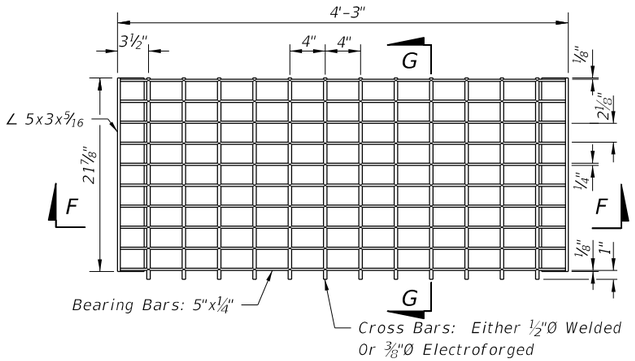
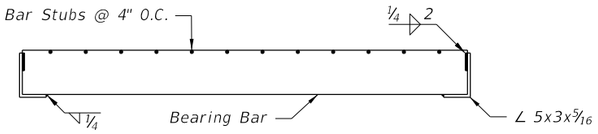
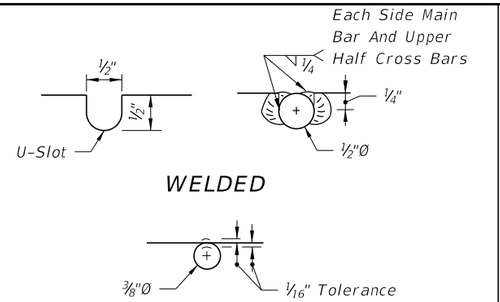
07/01/14			2016 DESIGN STANDARDS	CONCRETE BARRIER WALL INLET	INDEX NO. 219 / SHEET NO. 2 of 3



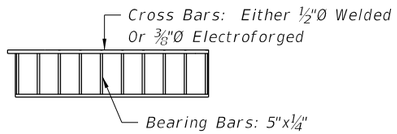
PLAN VIEW



SECTION FF

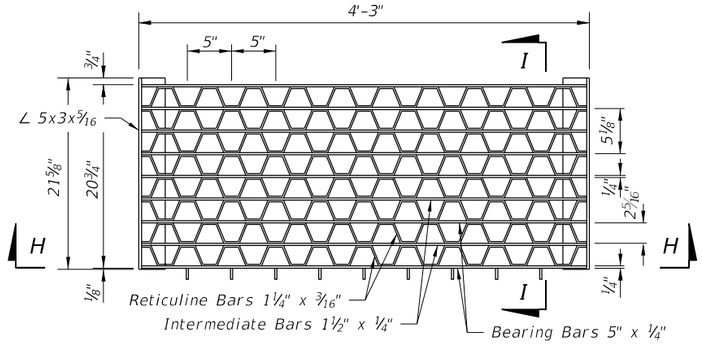


CROSS BAR OPTIONS

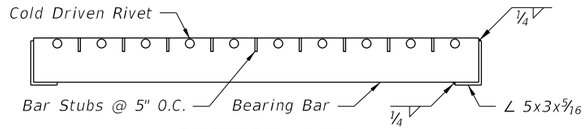


SECTION GG

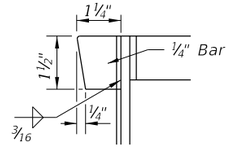
CROSS BAR GRATE



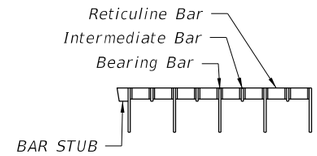
PLAN VIEW



SECTION HH



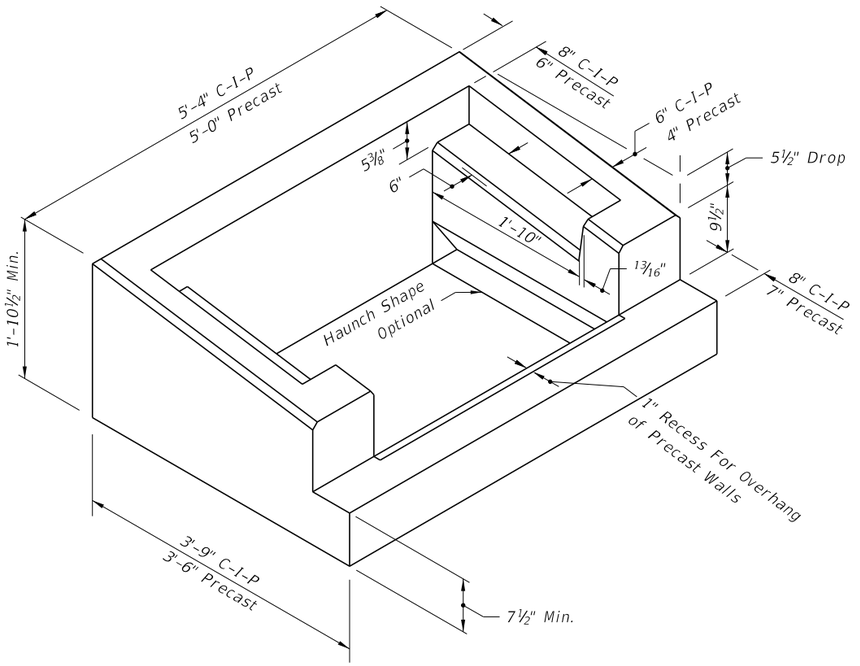
BAR STUB



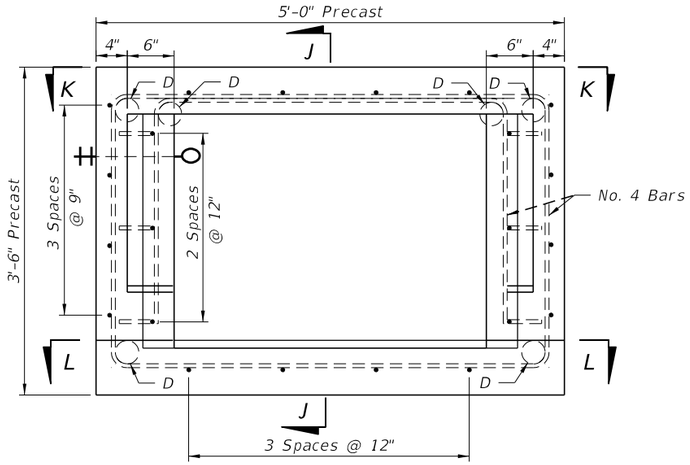
SECTION II

RETICULINE GRATE

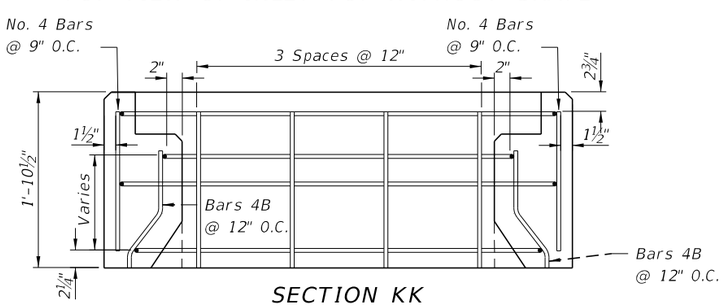
OPTIONAL STEEL GRATES



PICTORIAL VIEW OF INLET TOP



TOP VIEW OF INLET TOP WITHOUT GRATE



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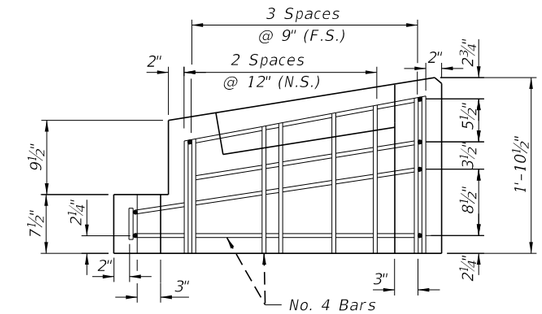

CONCRETE BARRIER WALL INLET

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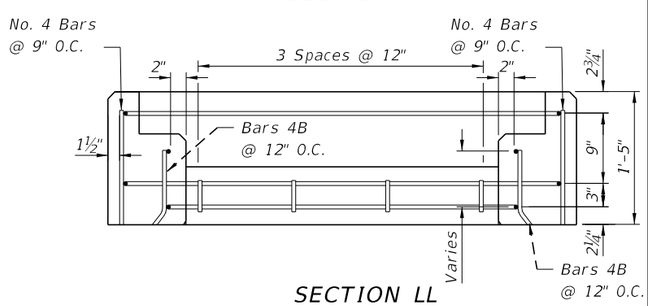
SECTION JJ



SECTION LL

NOTE:
1. For additional information on Bar 4B, see BAR BENDING DIAGRAMS (Sheet 2).
2. C-I-P Inlet Top Reinforcing Similar

PRECAST INLET TOP REINFORCING DETAILS

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01/01/12			2016 DESIGN STANDARDS	CONCRETE BARRIER WALL INLET	INDEX NO. 219 / SHEET NO. 3 of 3