GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.

2. Where called for in the Plans, use this inlet in conjunction with Curb and Gutter Barrier per Index 521-001. Construct Barrier segments shown herein in accordance with requirements of Index 521-001, including connections to adjacent barrier segments using the Doweled Joint.

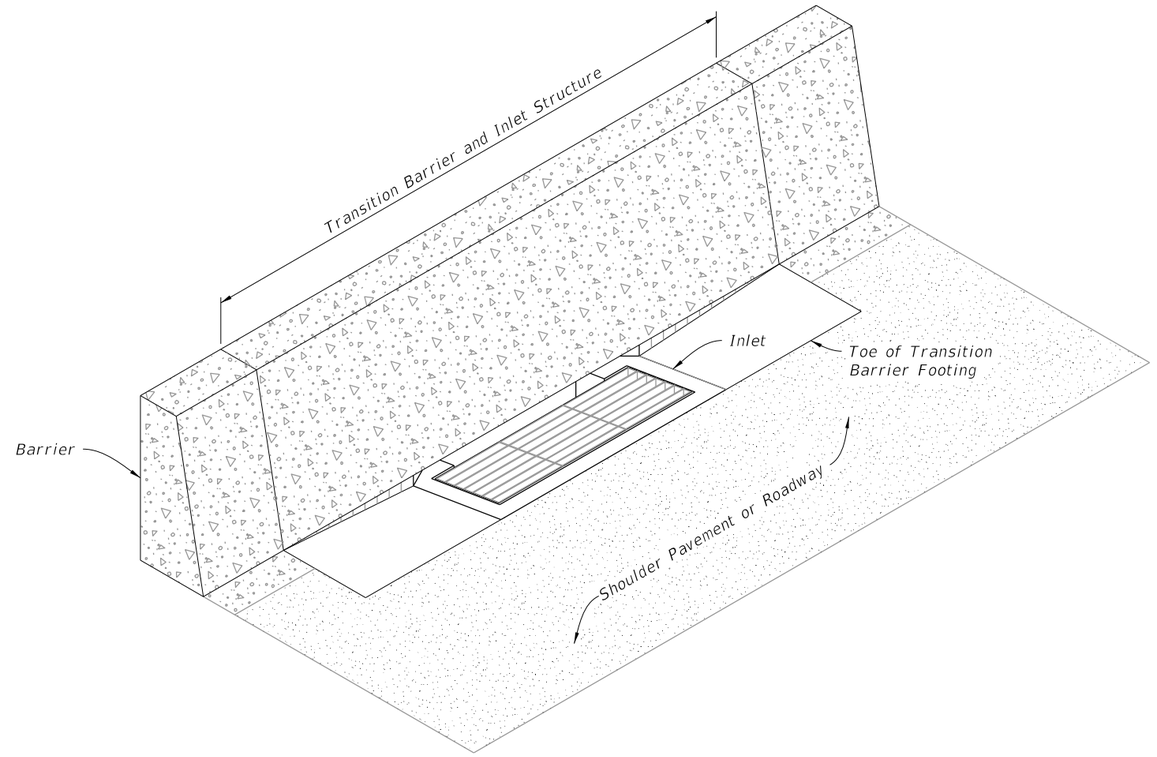
3. Reinforcing shown is grade 60 steel bars. For the equivalent area of welded wire reinforcement for the inlet, see Index 425-001. Reinforcing shall have 2" minimum cover unless otherwise shown. Trim or bend bars to provide 1½" clearance around pipe openings.

   For Bar Bending Details of Bars 5V2 & 5U4, see Index 521-001. For all others, see Sheet 2.

4. Apply a ¾" chamfer or ¼" radius to all exposed concrete edges.

5. Grates may be fabricated with reticuline bars or with either ½"∅ welded or ⅜"∅ electroforged cross bars and bearing bars as detailed on Sheet 3.

6. All dimensions are for both precast and cast in place (C-I-P) inlets unless otherwise indicated.



CURB AND GUTTER BARRIER INLET

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Dimensional, Reinforcing, and Bar Bending
3	Transitional Dimensional, Reinforcing, and Grate Details
4	Inlet Top Dimensional and Reinforcing Details

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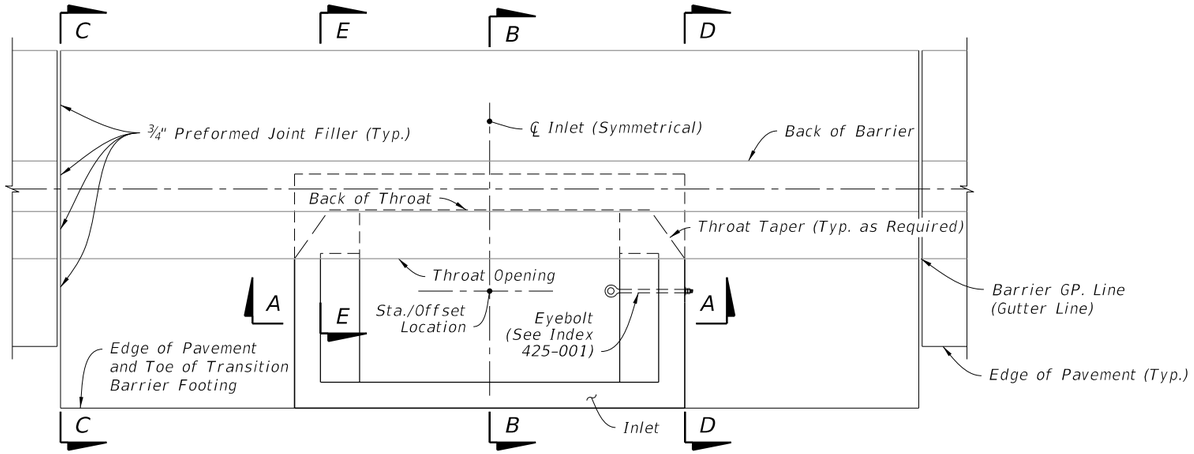

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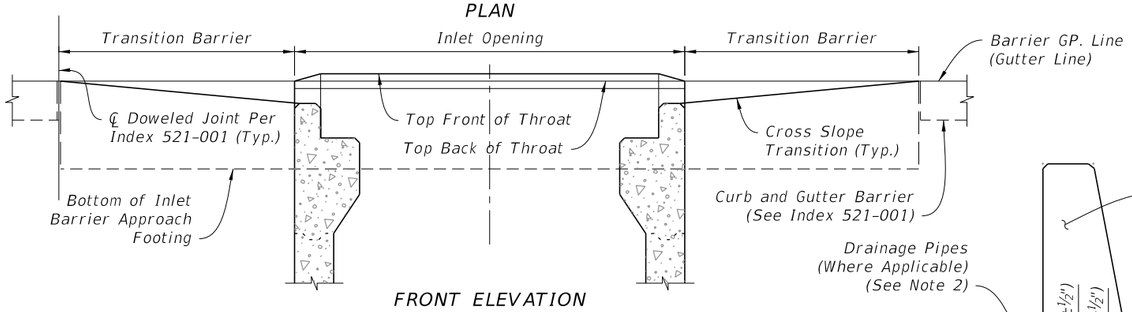
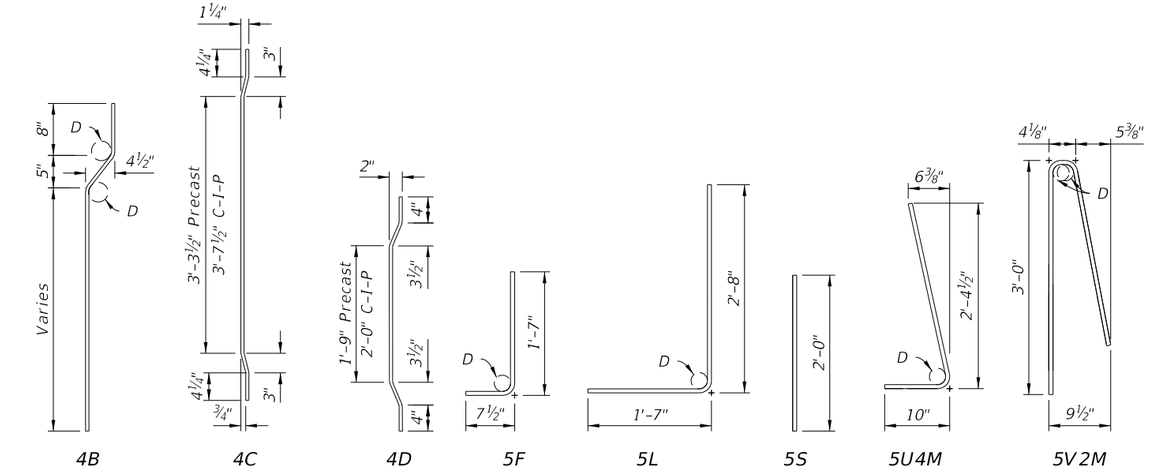
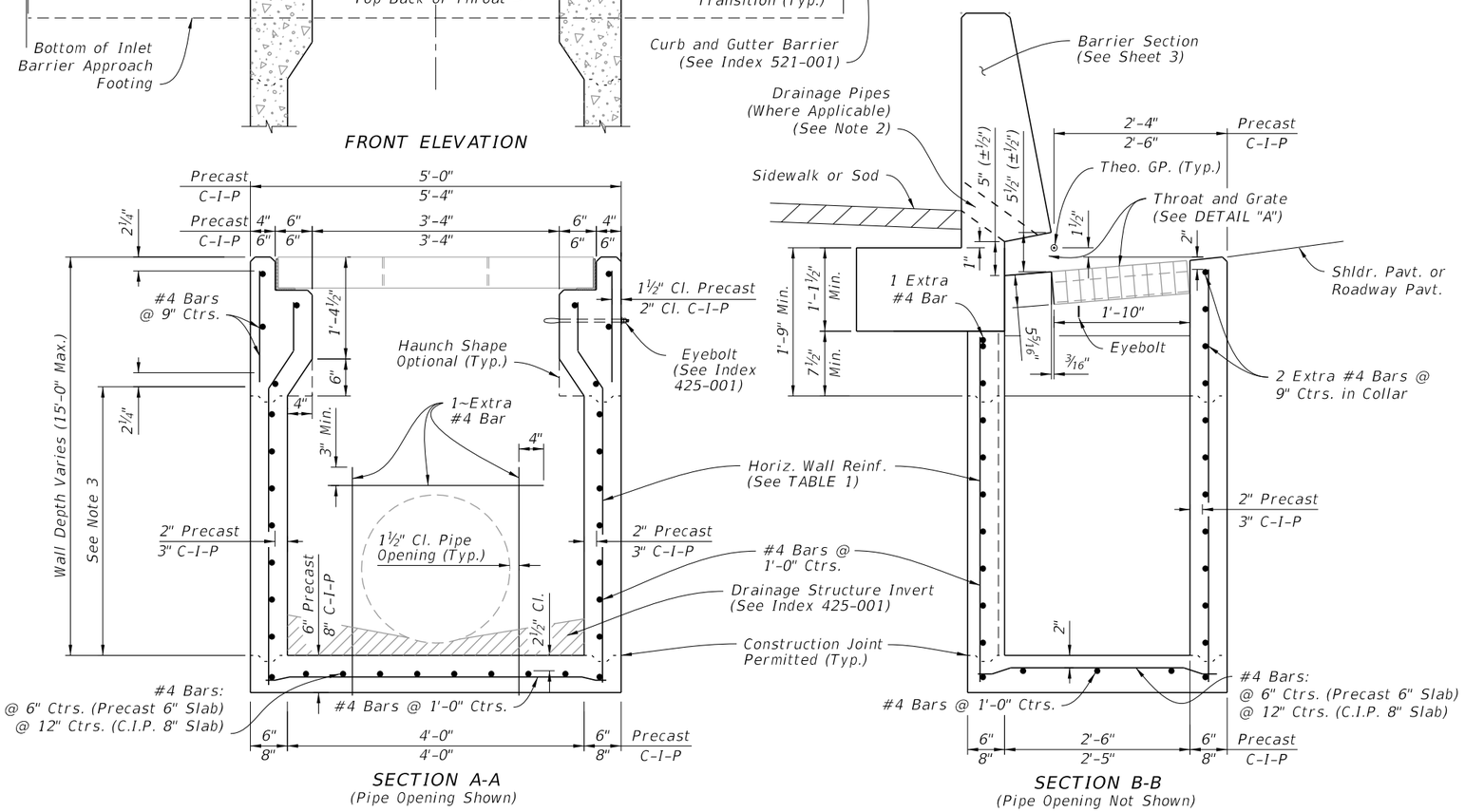


FRONT ELEVATION



BAR BENDING DIAGRAMS



SECTION A-A
(Pipe Opening Shown)

SECTION B-B
(Pipe Opening Not Shown)

DIMENSIONAL AND REINFORCING

TABLE 1: HORIZONTAL WALL REINFORCING SCHEDULE					
WALL DEPTH		SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
Precast	C-I-P			BARS	WWR
0'-3'	0'-4'	A12	0.20	12"	8"
3'-6'	4'-9'	A6	0.20	6"	5"
6'-10'	9'-15'	B5.5	0.24	5½"	5"
10'-15'	–	C6.5	0.37	6½"	6"

NOTES:

1. For Bar Bending Diagrams of Bars 5V2 & 5U4, See Index 521-001. Bars 5V2M, 5U4M, & 5S may be field cut from Bars 5V2 & 5U4.
2. Install PVC Drainage Pipes at the inlet centerline when the inlet is located in a sag curve or when drainage pipes are called for in the plans. Install a quantity of 3 ~ 3½"℄ (I.D.) NPS Schedule 40 Pipes longitudinally spaced at 8", with the center pipe as near to the inlet centerline as practical without conflicting with the steel reinforcing.
3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

DIMENSIONAL, REINFORCING AND BAR BENDING

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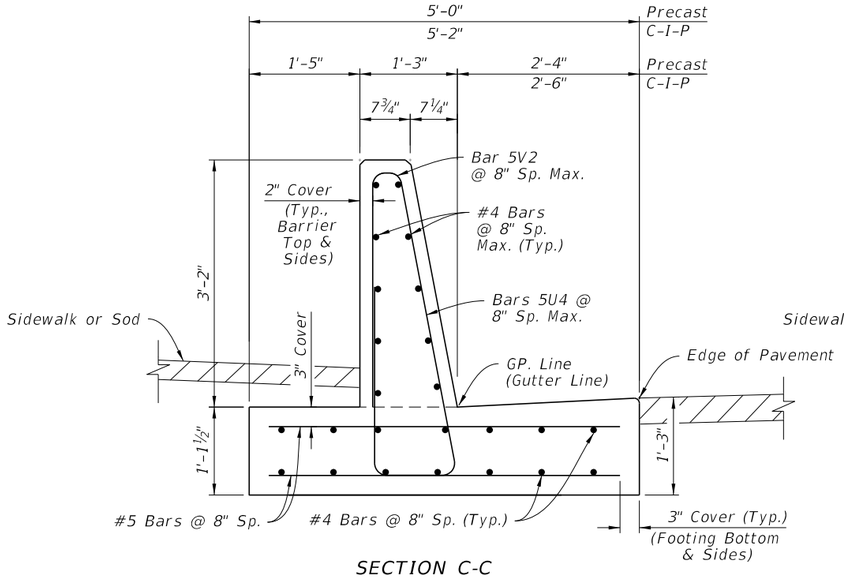
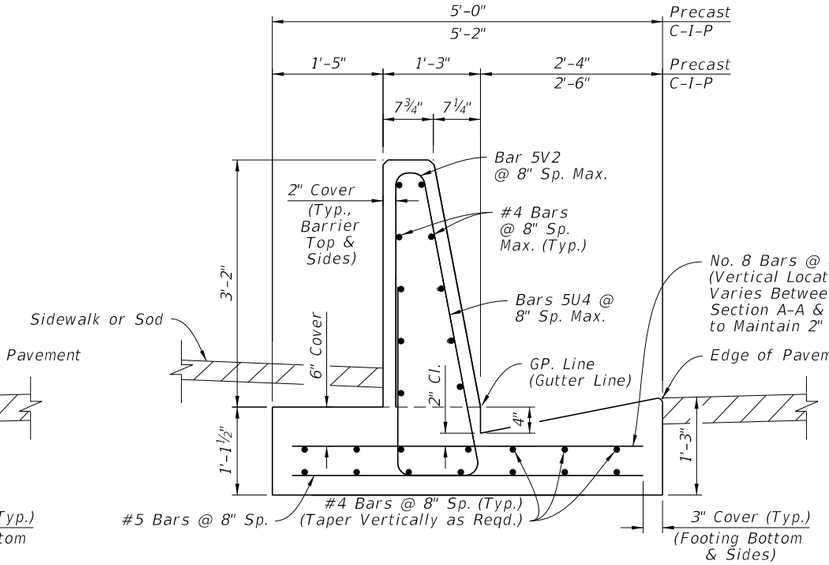


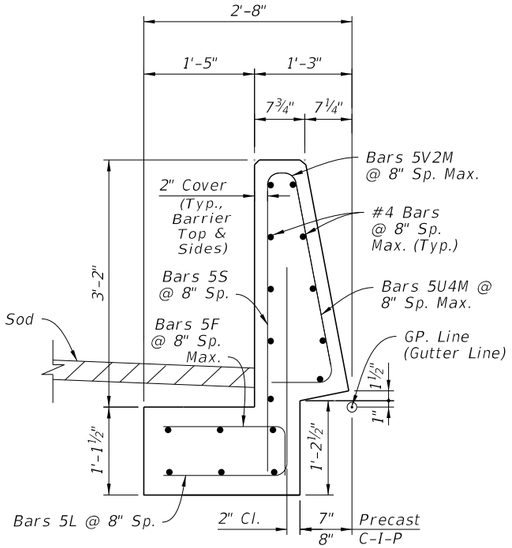
SECTION C-C

TRANSITION BARRIER BEGIN CROSS-SLOPE TRANSITION
(Align With Curb And Gutter Barrier, See Index 521-001)



SECTION D-D

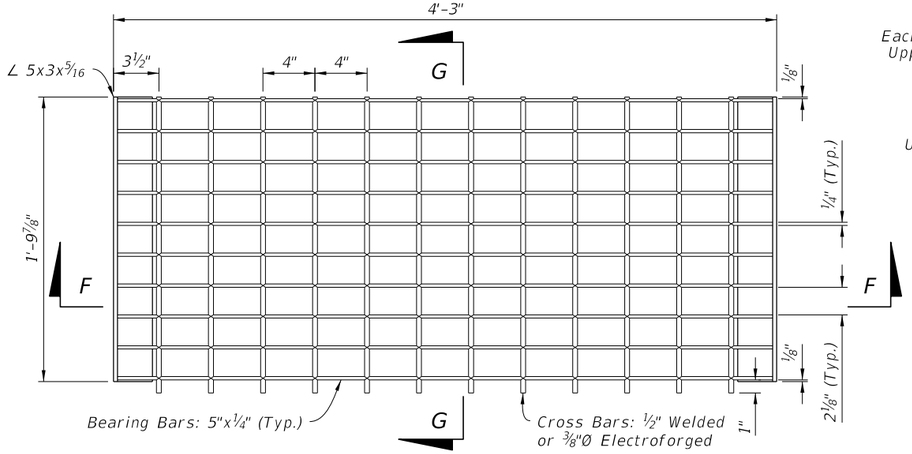
TRANSITION BARRIER END CROSS-SLOPE TRANSITION
(Align With Inlet Structure)



SECTION E-E

BARRIER OVER INLET STRUCTURE
(Throat Fully Transitioned)

TRANSITIONAL DIMENSIONAL AND REINFORCING



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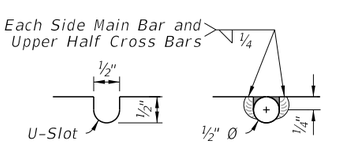

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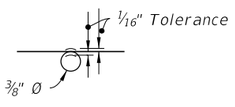

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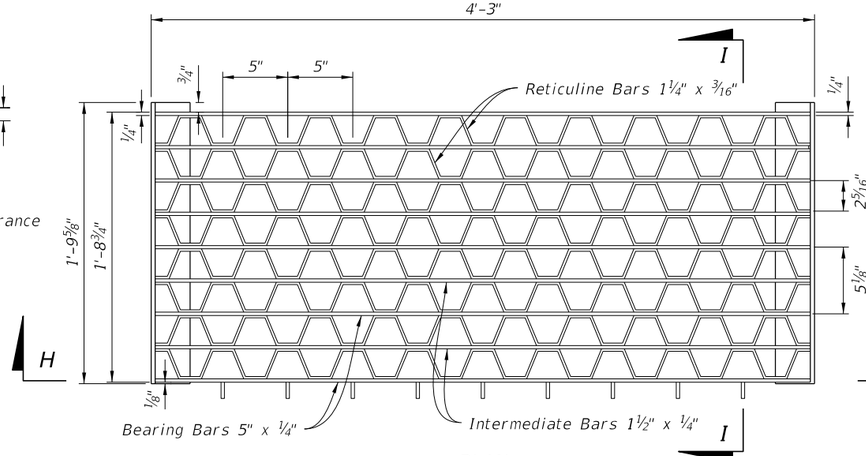
DETAIL "B"



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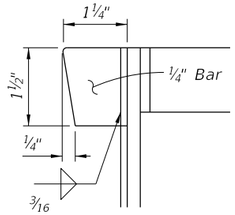
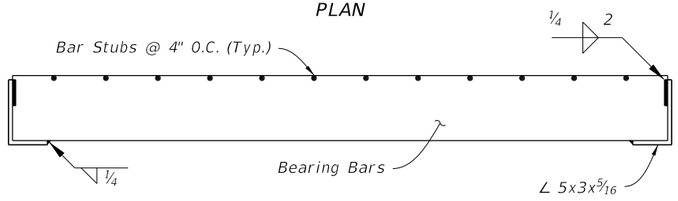
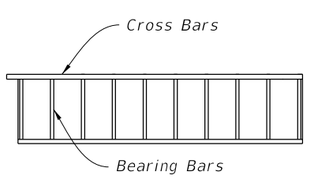


STUB BAR

DETAIL "C"

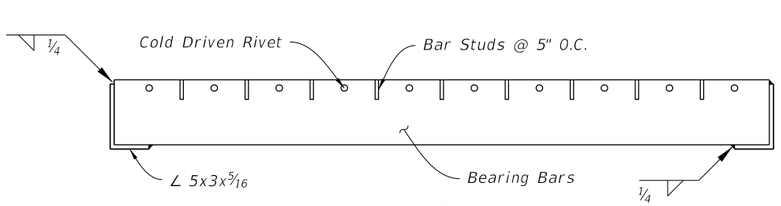


SECTION F-F

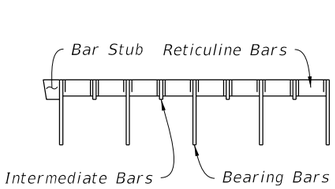


SECTION G-G

CROSS BAR GRATE



SECTION H-H



SECTION I-I

RETICULINE GRATE

TRANSITIONAL DIMENSIONAL, REINFORCING AND GRATE DETAILS

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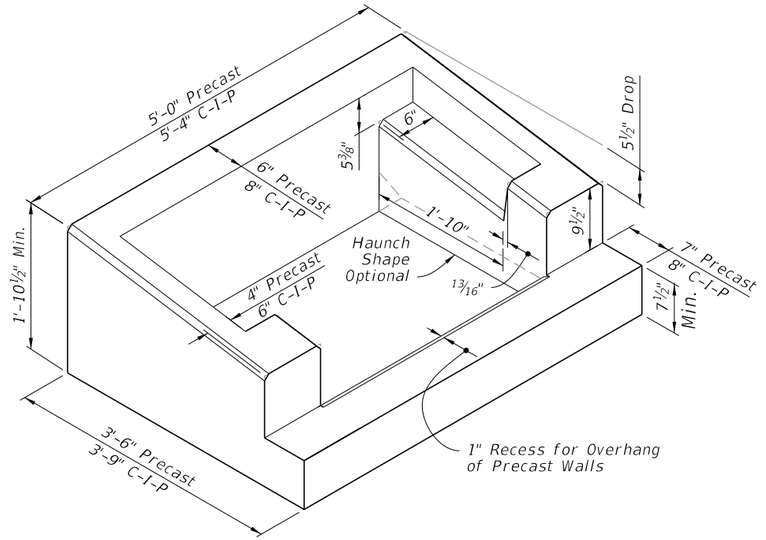
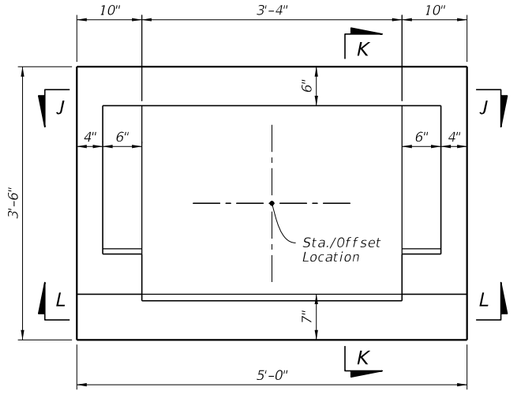


INLET COLLAR

ISOMETRIC VIEW

(Grate Not Shown)



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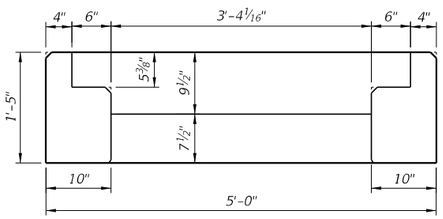

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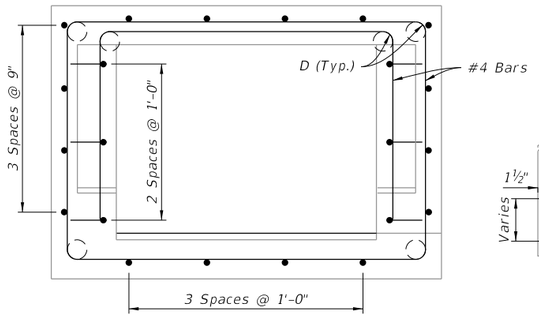
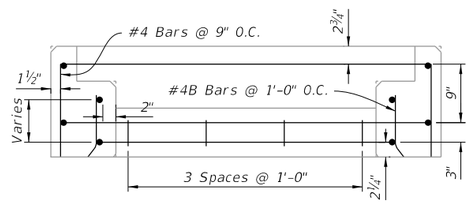


PLAN

NOTE:
See BAR BENDING DIAGRAMS on Sheet 3 for additional information on Bar 4B.



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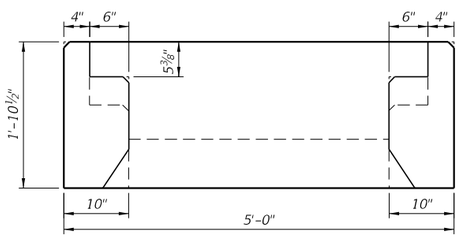

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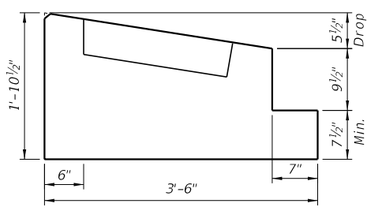
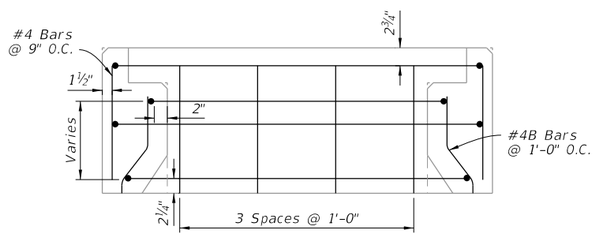


SECTION K-K

DIMENSIONAL DETAILS

(Precast Shown, C-I-P Similar)



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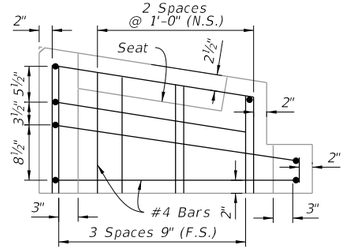

SECTION K-K

REINFORCING DETAILS

(Precast Shown, C-I-P Similar)

INLET TOP DIMENSIONAL AND REINFORCING DETAILS

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