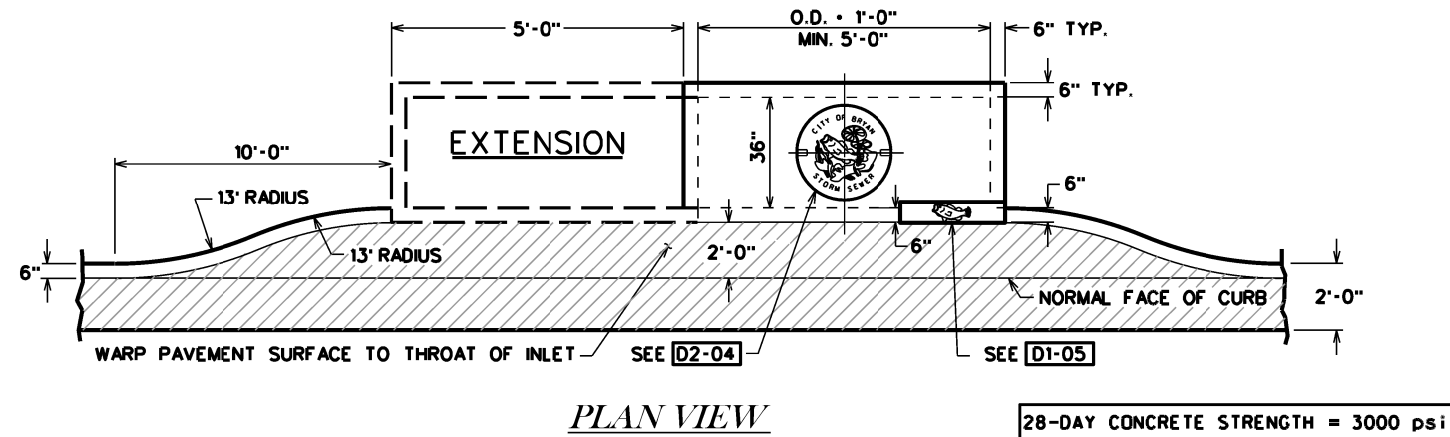
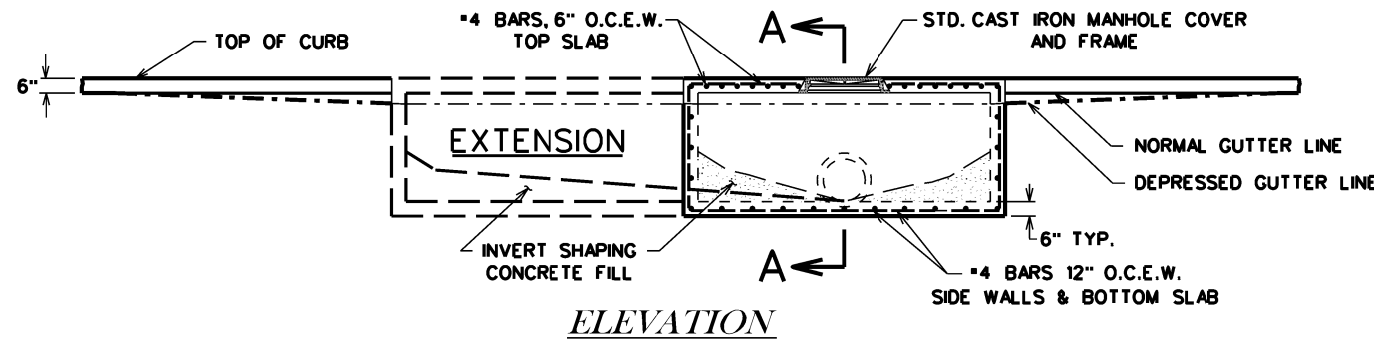


SECTION A-A



PLAN VIEW

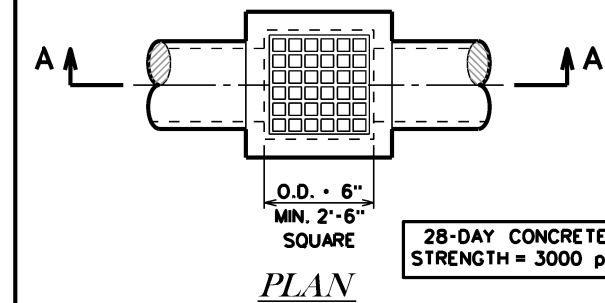
28-DAY CONCRETE STRENGTH = 3000 psi



ELEVATION

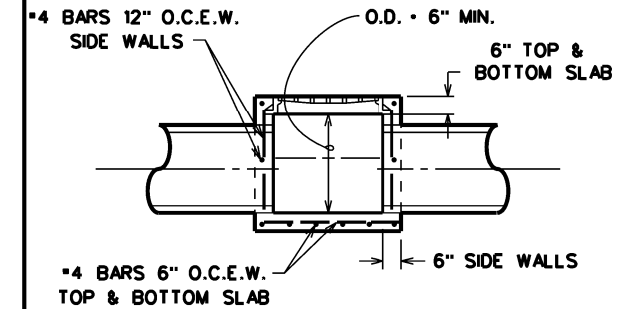
SINGLE RECESSED CURB INLET & CURB INLET W/EXTENSION

D1-00



PLAN

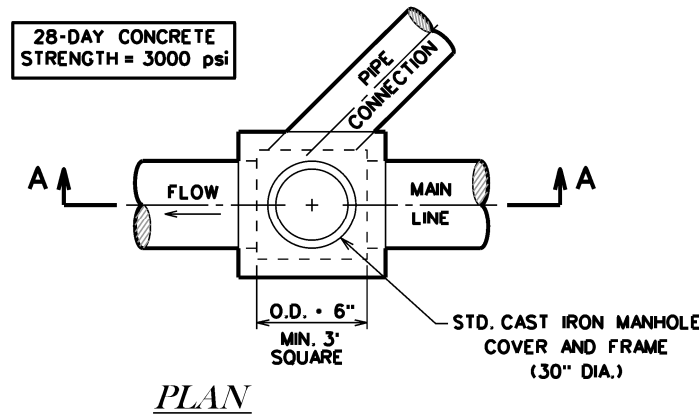
28-DAY CONCRETE STRENGTH = 3000 psi



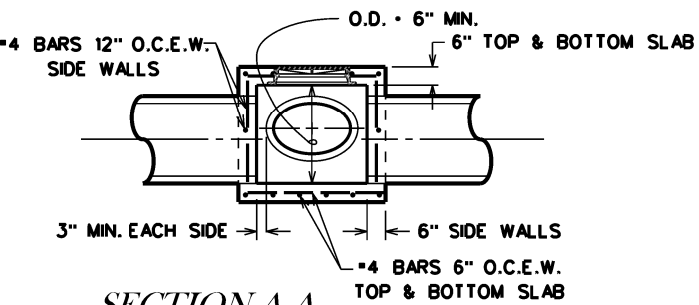
SECTION A-A

SINGLE GRATE INLET

D1-01



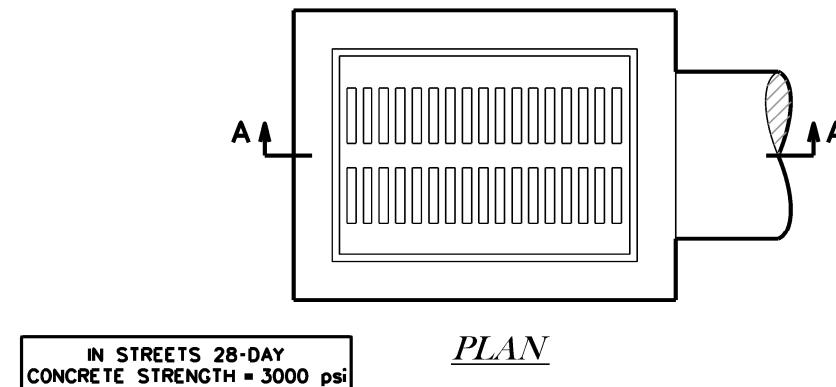
PLAN



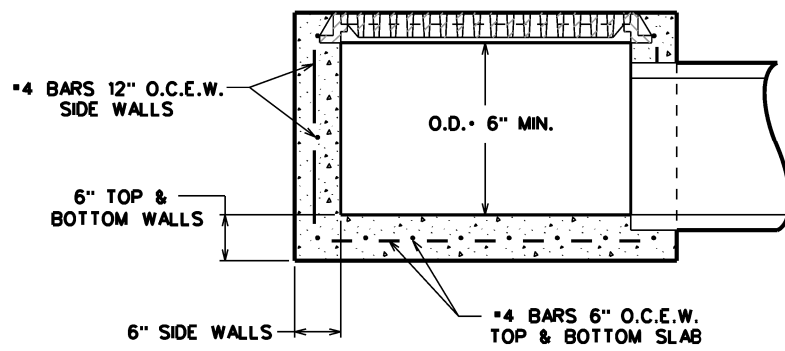
SECTION A-A

STORM SEWER JUNCTION BOX

D1-02



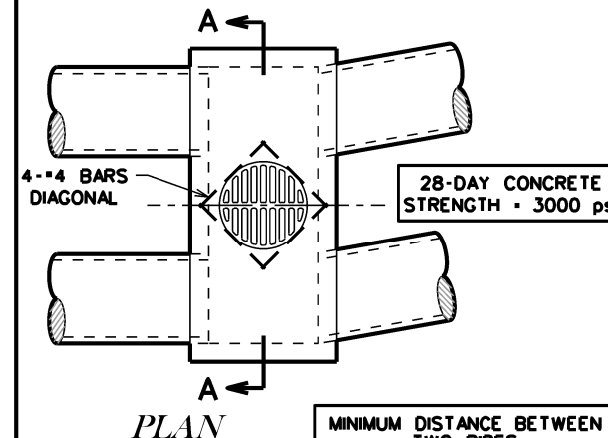
PLAN



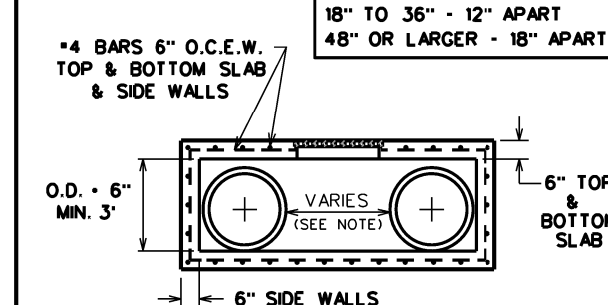
SECTION A-A

GRATE INLET

D1-03



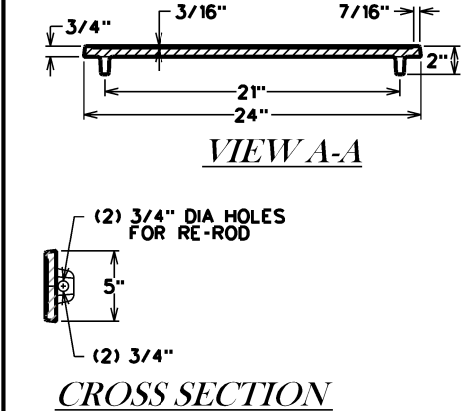
PLAN



SECTION A-A

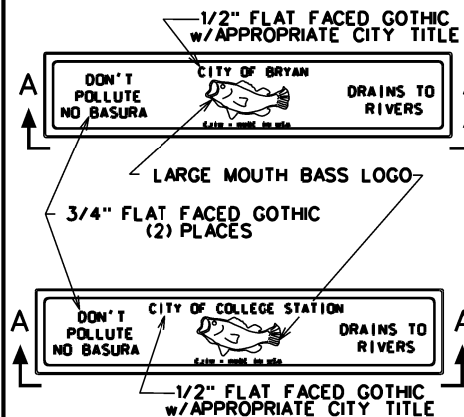
DOUBLE BARREL INLET

D1-04



VIEW A-A

CROSS SECTION



TROUT LOGO PLATE

D1-05

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STANDARD DRAINAGE DETAILS

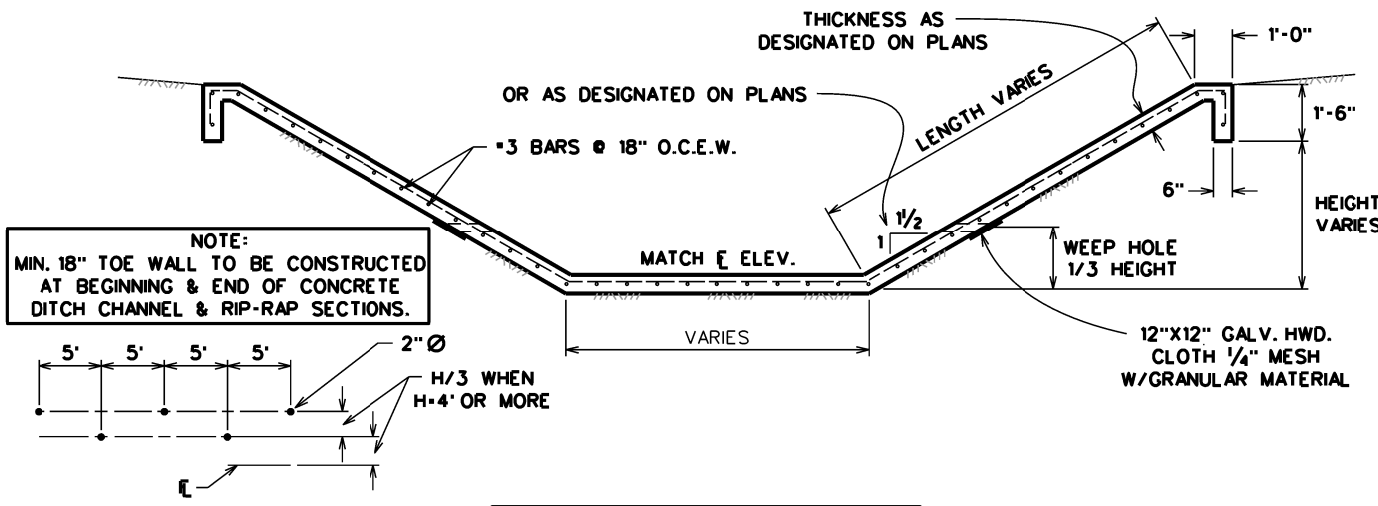


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SCALE: N T S
APPROVED: W.P.K.

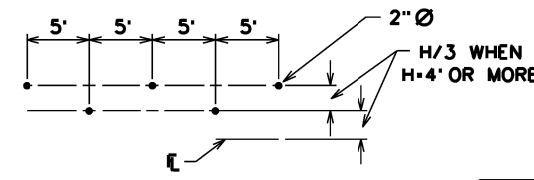
FIGURE:

D1

SHEET 1 OF 3



NOTE:
MIN. 18" TOE WALL TO BE CONSTRUCTED
AT BEGINNING & END OF CONCRETE
DITCH CHANNEL & RIP-RAP SECTIONS.

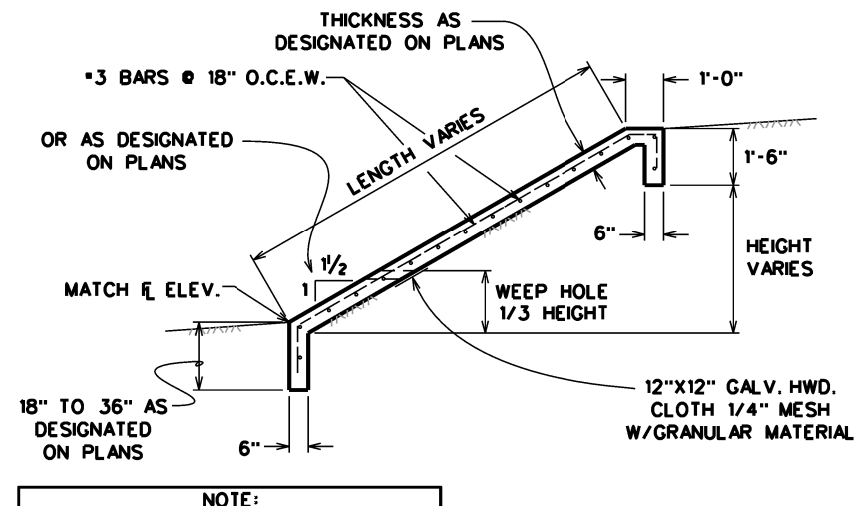


WEEP HOLE DETAIL

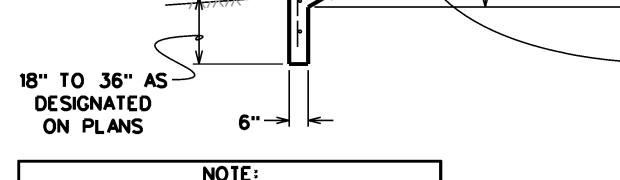
28-DAY CONCRETE STRENGTH = 3000 psi

CONCRETE CHANNEL LINING

D2-00



NOTE:
MIN. 18" TOE WALL TO BE CONSTRUCTED
AT BEGINNING & END OF CONCRETE
DITCH CHANNEL & RIP-RAP SECTIONS.

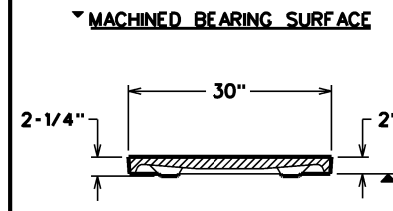


WEEP HOLE DETAIL

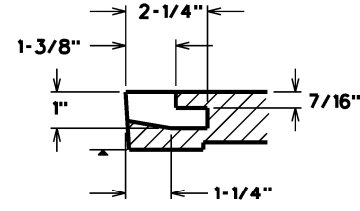
28-DAY CONCRETE STRENGTH = 3000 psi

CONCRETE RIP-RAP

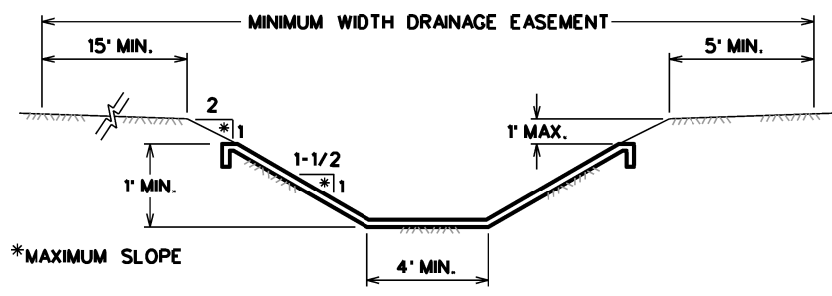
D2-01



COVER SECTION



PICK HOLE DETAIL

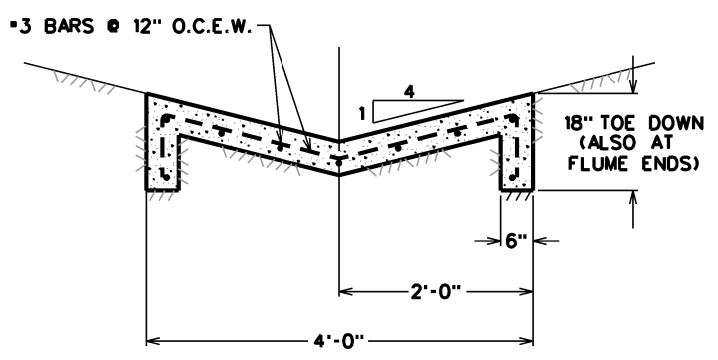


TYPICAL LINED CHANNEL SECTION

BLOCK SOD OR ENKAMAT W/HYDRO-MULCH

STANDARD CHANNEL SECTION

D2-02

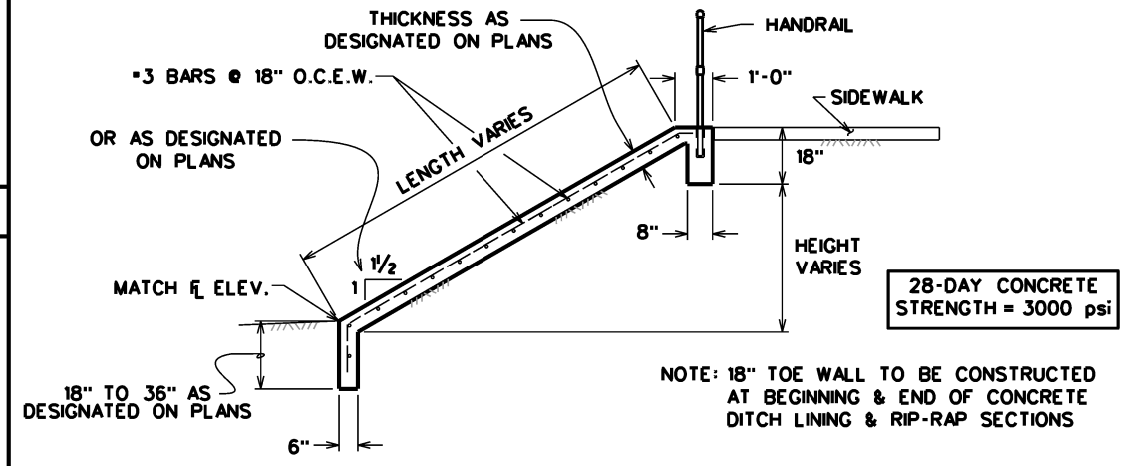


28-DAY CONCRETE STRENGTH = 3000 psi

STANDARD FLUME SECTION

EXPANSION JOINTS AT 60' O.C.

D2-05



CONCRETE SIDE SLOPE PROTECTION

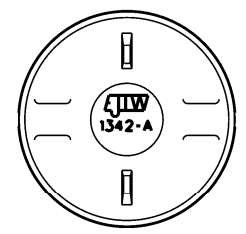
D2-03



COVER FACE



COVER FACE



COVER BACK

MANHOLE RING AND COVER

D2-04

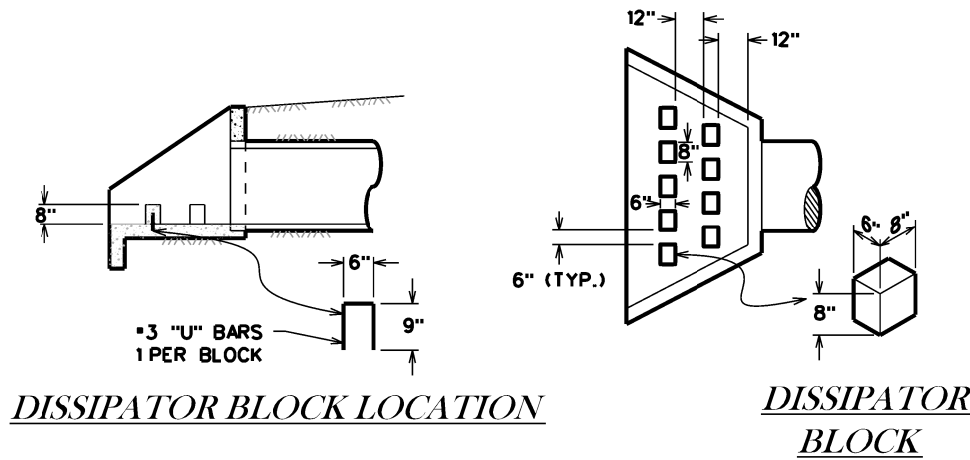
REVISIONS:

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STANDARD DRAINAGE DETAILS



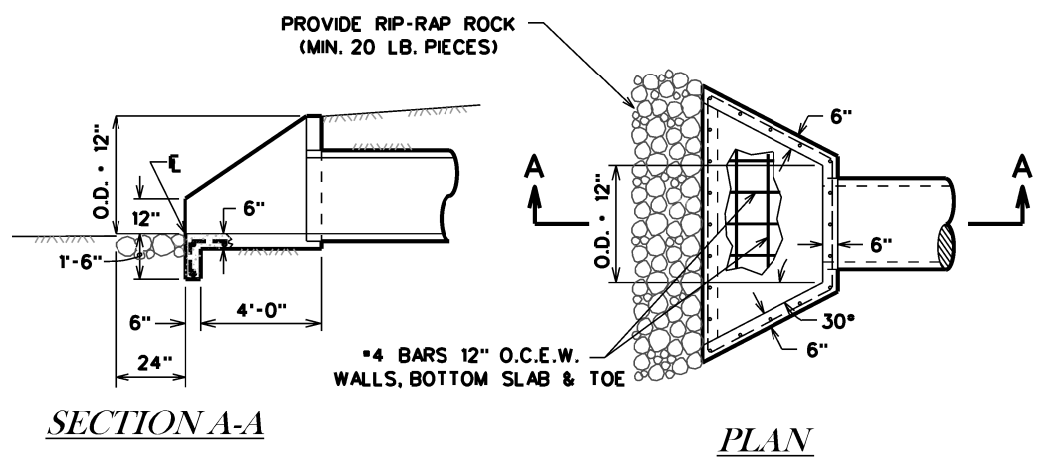
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DATE: 01-01-09
SCALE: N T S
APPROVED: W. P. K.

FIGURE:
D2
SHEET 2 OF 3



DISSIPATOR BLOCK LOCATION

DISSIPATOR BLOCK



SECTION A-A

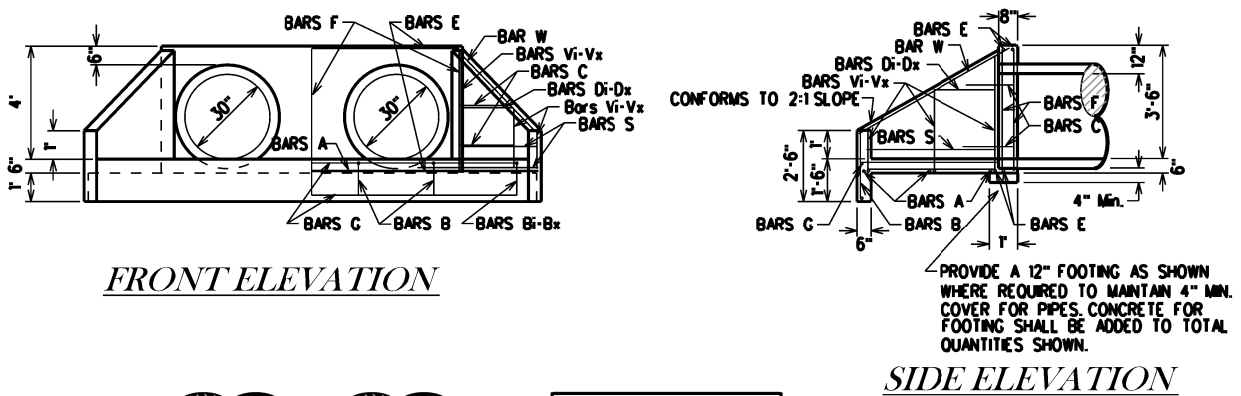
PLAN

28-DAY CONCRETE STRENGTH = 3000 psi

MINIMUM DISTANCE BETWEEN TWO PIPES
 18" TO 36" - 12" APART
 48" OR LARGER - 18" APART

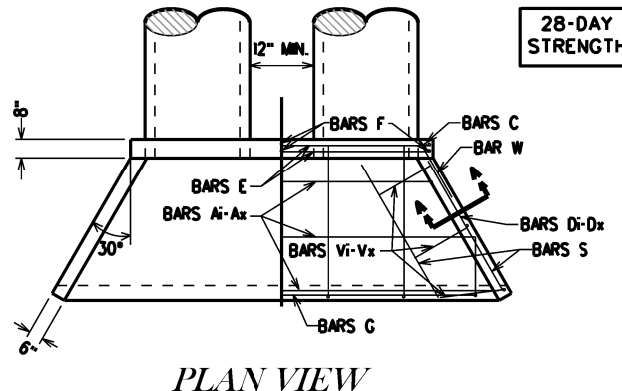
TYPICAL CONCRETE HEADWALL & END WALL WITH WINGS

D3-00

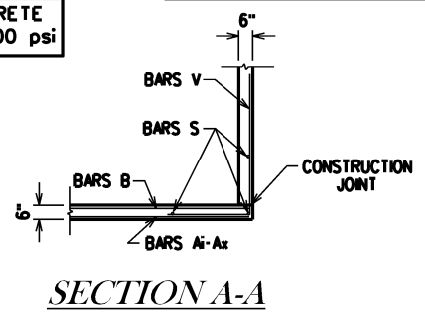


FRONT ELEVATION

SIDE ELEVATION



PLAN VIEW



SECTION A-A

28-DAY CONCRETE STRENGTH = 3000 psi

GENERAL NOTES:
 ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
 REINFORCING STEEL SHALL BE PLACED WITH THE CENTER OF THE OUTSIDE LAYER OF BARS 2" FROM THE SURFACE OF THE CONCRETE. TOTAL QUANTITIES INCLUDE ONE 20 DIAMETER LAP FOR ALL BARS OVER 6'-0" IN LENGTH.

REINFORCING STEEL FOR ONE HEADWALL

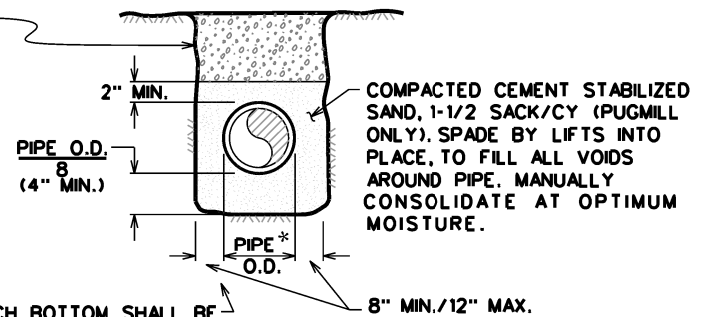
BARS A-Ax	BARS B	BARS Bi-Bx	BARS C	BARS Di-Dx	BARS E	BARS F	BARS G	BARS S	BARS Vi-Vx	BARS W
*4#12	*3#18	*3#18	*4#12	*3#12	*5	*4	*3	*4	*4#12	*5

CONCRETE HEADWALL FOR 2 PIPES

D3-01

SELECT MATERIAL
 MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (ie...YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER FUTURE STREET AREAS.

* PE MUST DESIGN TRENCH DETAIL SITE SPECIFIC FOR HDPE PIPE.
 HDPE PIPE IS NOT TO BE USED UNDER PUBLIC STREET PAVEMENT
 CEMENT STABILIZED SAND AS A MINIMUM WILL ALWAYS BE REQUIRED.



THE TRENCH BOTTOM SHALL BE GRADED SO AS TO PROVIDE UNIFORM AND CONTINUOUS SUPPORT FOR THE PIPE BARREL BETWEEN BELL HOLES.

BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE

D3-02

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 STANDARD DRAINAGE DETAILS



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FIGURE:
D3
 SHEET 3 OF 3