

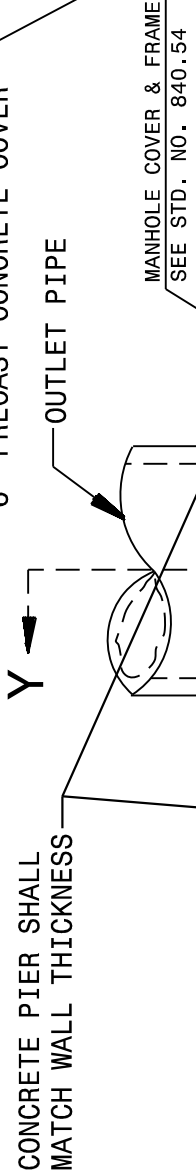
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S:\Contracts\Special Details\Jhove-ton\840d04 3 or 4 side OTCB.dgn
Jhove-ton AT CSD-292595

5/14/99

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

CONCRETE PIER SHALL
MATCH WALL THICKNESS

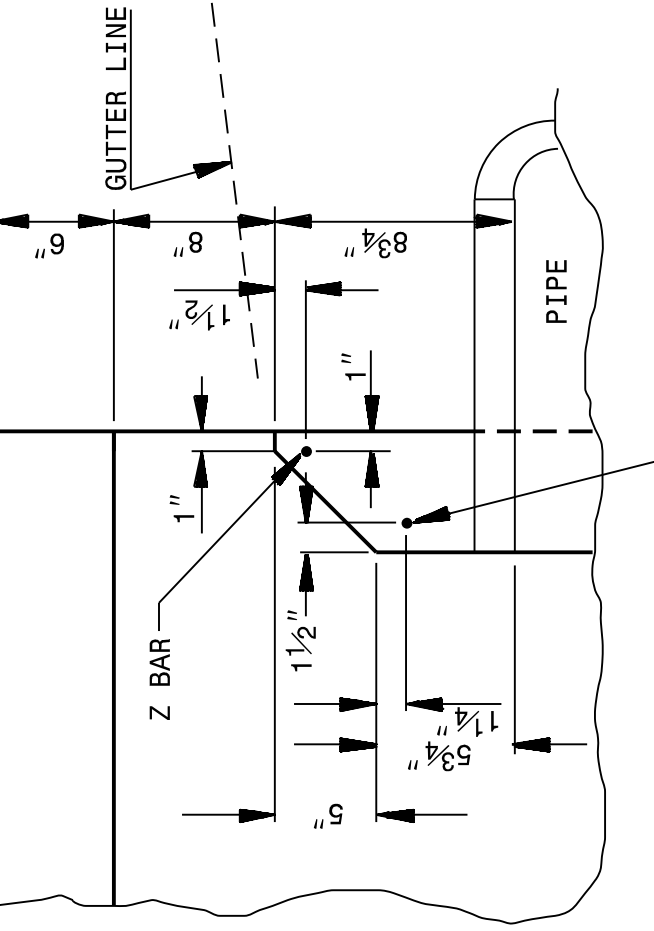
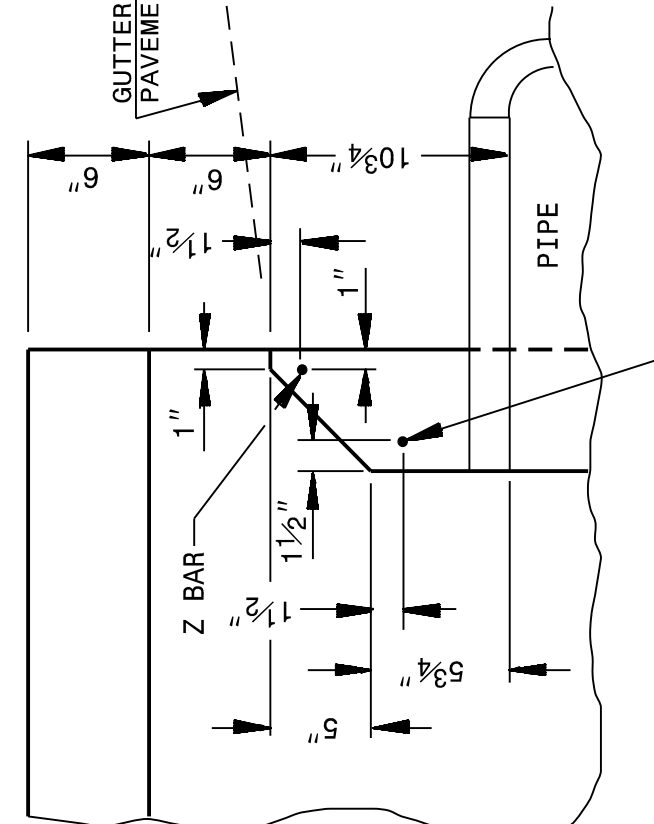
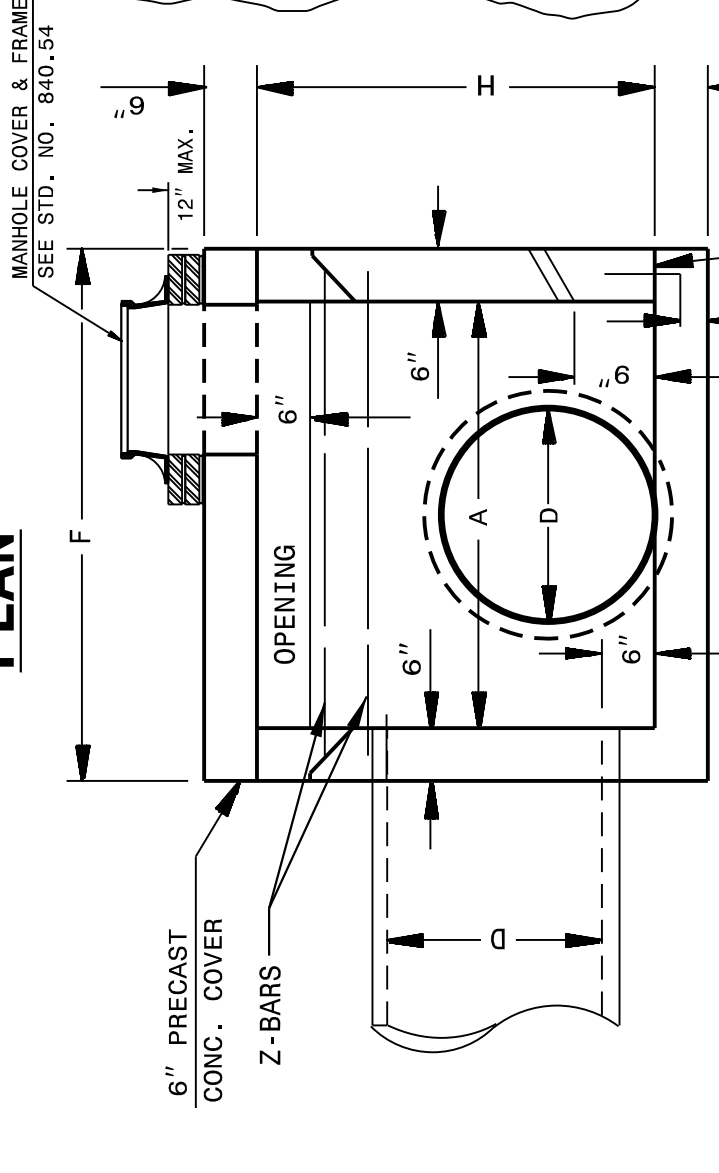
MANHOLE COVER & FRAME
SEE STD. NO. 840.54



GENERAL NOTES:
ALL CATCH BASINS OVER 3'-6" IN DEPTH TO BE PROVIDED WITH STEPS
12" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH STD. 840.66.
ALL EXPOSED CORNERS TO BE CHAMFERED 1".
CLASS "B" CONCRETE TO BE USED THROUGHOUT.
2" PIPE WEEPHOLES TO BE PLACED AS DIRECTED BY ENGINEER.
THE 6" PIPE WEEPHOLES TO BE INCREASED TO 8" MAXIMUM IF DEEMED TO
BE NECESSARY BY THE ENGINEER.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #5 BAR DOWELS
AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE
AS SHOWN ON STD. DWG. 840.00.
A STONE DRAIN CONSISTING OF 1 CUBIC FOOT OF NO. 78M STONE
CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE.
FOR 8" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB.
OVER 8" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. QUANTITIES
TO BE ADJUSTED ACCORDINGLY.
DIMENSIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

SECTION Y-Y

MANHOLE COVER & FRAME
SEE STD. NO. 840.54



ENGLISH DETAIL DRAWING FOR
**CONCRETE CATCH BASIN
(3 OR 4 SIDE OPEN THROAT)
(MANHOLE OPTIONAL)**

ENGLISH DETAIL DRAWING FOR
**CONCRETE CATCH BASIN
(3 OR 4 SIDE OPEN THROAT)
(MANHOLE OPTIONAL)**

PART SECTION Y-Y

SHOWING METHOD OF
CONSTRUCTION FOR 6" OPENING

PART SECTION Y-Y

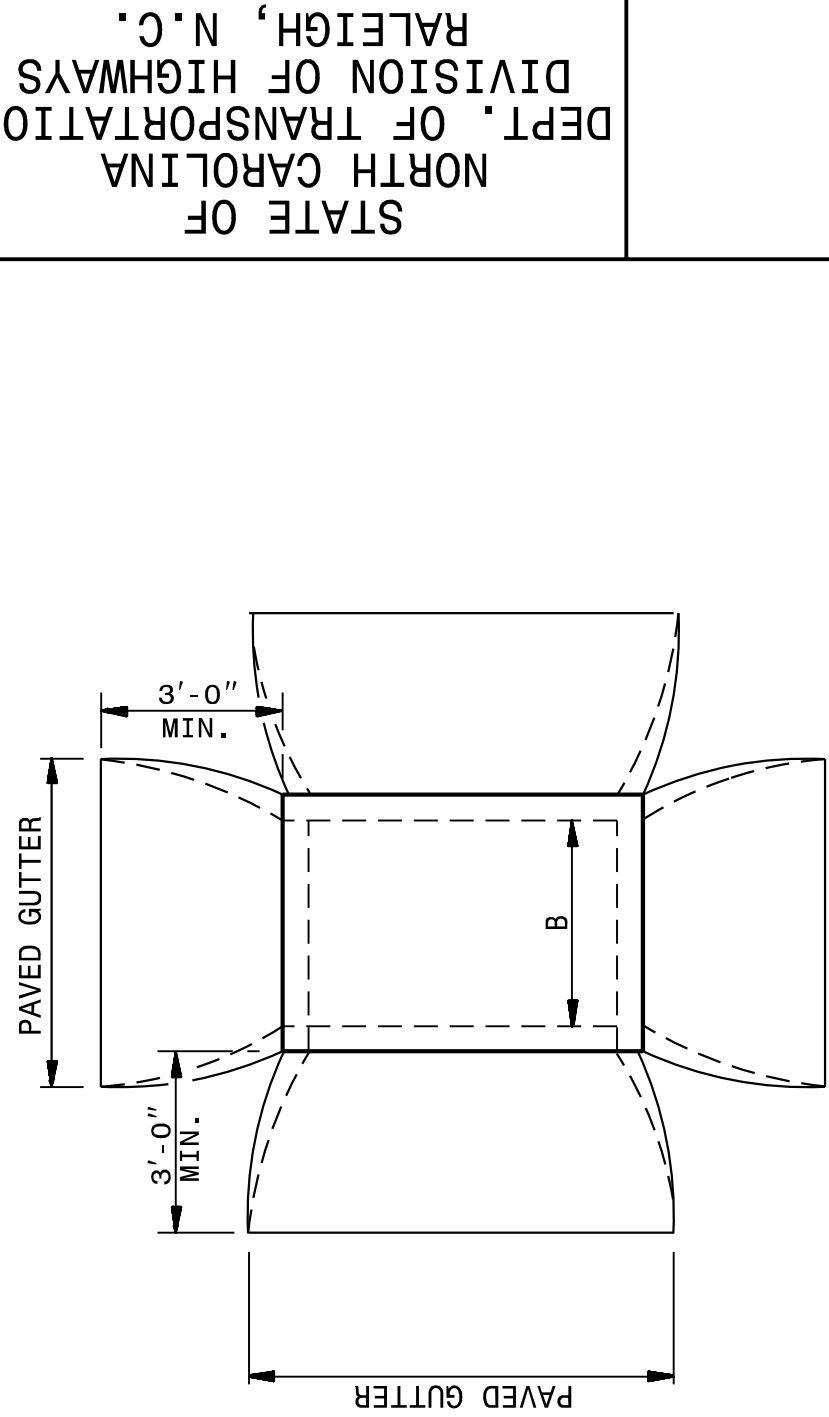
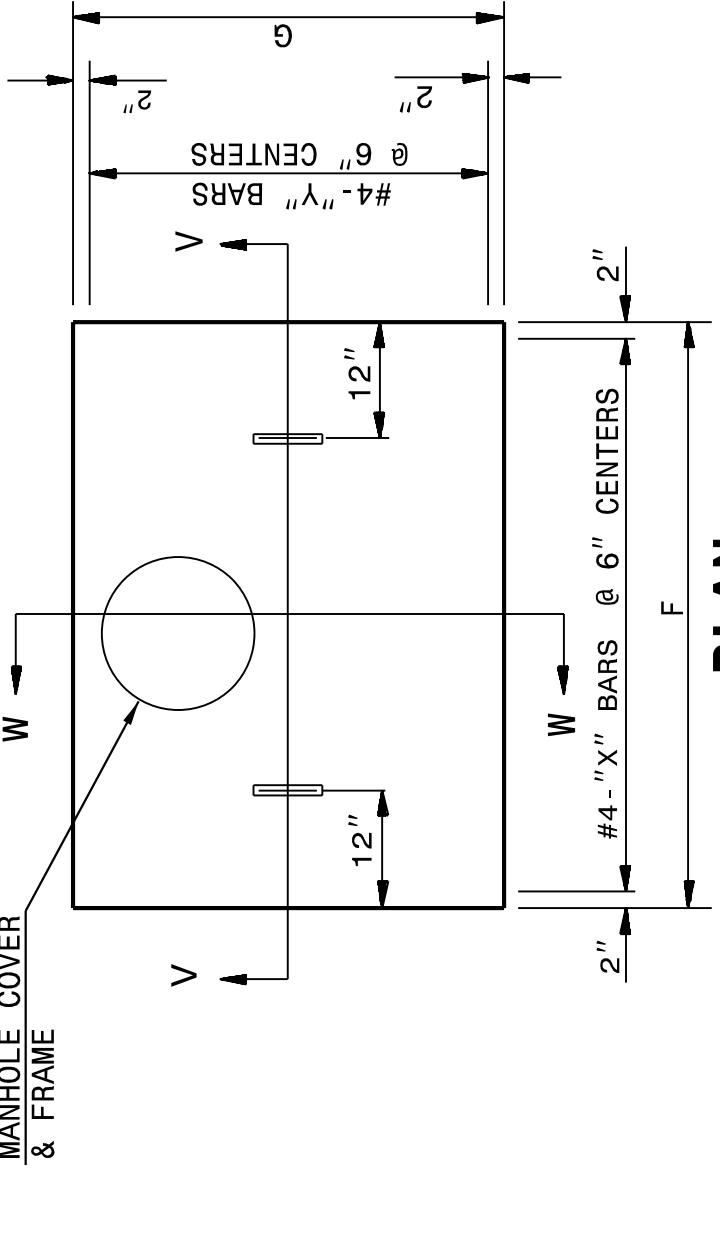
SHOWING METHOD OF CONSTRUCTION
IF INCREASED OPENING IS USED

MIN. DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H)																		
DIM'S OF BOX & PIPE		REINFORCING		TOP & BOT. SLAB DIMENSIONS		CU. YDS. CONC. IN BOX		TOTAL QUANTITIES		DEDUCTION		DED ONE PIPE		DED ONE THROUGH DRAIN OPENING				
PIPE	SPAN	WIDTH	HEIGHT	BAR - X	BAR - Y	BAR - Z	NO. LENGTH	NO. LENGTH	NO. LENGTH	TOP SLAB	BOT. SLAB	WALL	LF. LB.	RS. REIN. LB.	YD ³ (WALL, LB.)	C - S	R - C	YD ³
D	A	B	H					F	G									
12"	3'-6"	2'-3"	1'-10"	4	3'-0"	6	4'-3"	2	4'-6"	3'-3"	0.181	0.271	0.250	27	1.046	0.015	0.032	0.046
15"	3'-6"	2'-3"	2'-1"	4	3'-0"	6	4'-3"	2	4'-6"	3'-3"	0.181	0.271	0.250	27	1.108	0.023	0.036	0.046
18"	4'-0"	2'-8"	2'-4"	5	3'-5"	7	4'-9"	2	5'-0"	3'-8"	0.226	0.340	0.284	35	1.379	0.033	0.049	0.053
24"	4'-0"	2'-8"	2'-10"	5	3'-5"	7	4'-9"	2	5'-0"	3'-8"	0.226	0.340	0.284	35	1.521	0.059	0.085	0.053
30"	4'-0"	3'-6"	3'-4"	5	4'-3"	9	4'-9"	2	5'-0"	4'-6"	0.278	0.417	0.315	43	1.916	0.092	0.127	0.053
36"	4'-6"	4'-0"	3'-10"	5	4'-9"	10	5'-3"	2	5'-6"	5'-0"	0.340	0.510	0.362	51	2.390	0.132	0.178	0.059
42"	5'-0"	4'-6"	4'-4"	5	5'-3"	12	5'-9"	2	5'-9"	6'-0"	0.407	0.611	0.389	64	2.914	0.180	0.243	0.066
48"	5'-0"	5'-0"	4'-10"	5	5'-9"	13	5'-9"	2	5'-9"	6'-0"	0.444	0.666	0.407	68	3.298	0.235	0.317	0.066

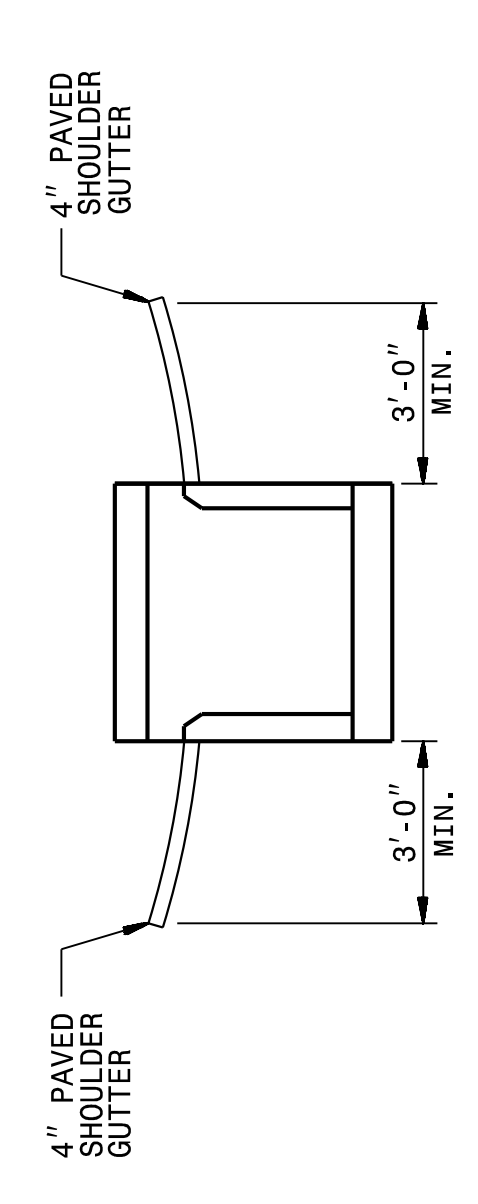
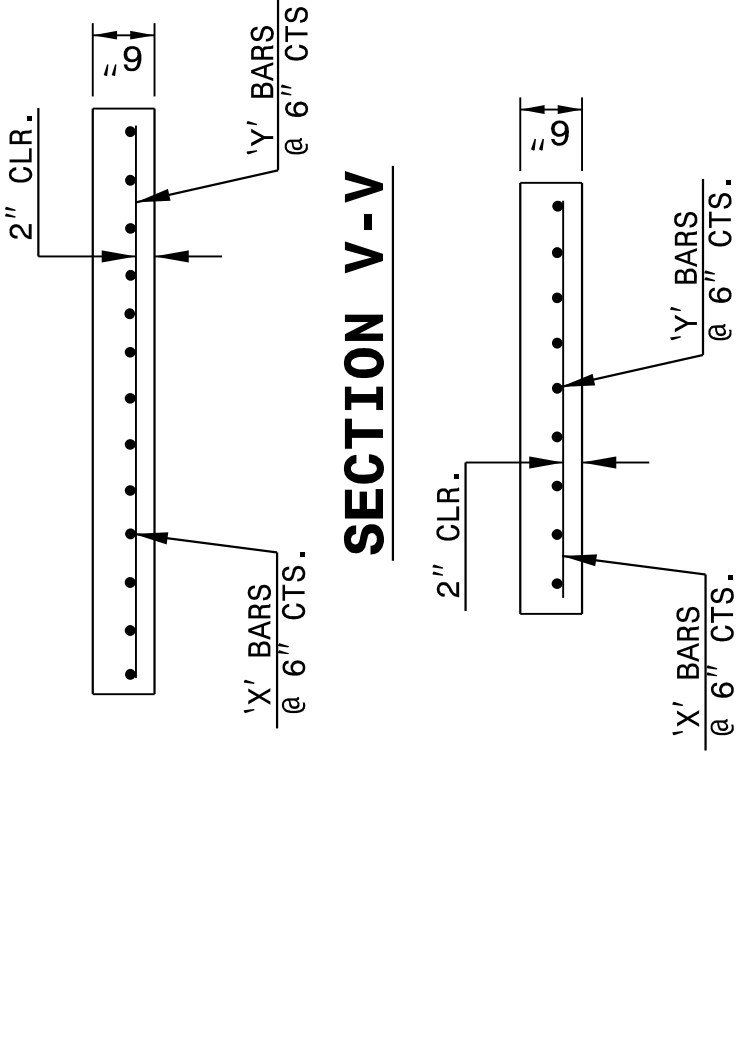
SHEET 1 OF 2
840D04

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STATE OF
NORTH CAROLINA
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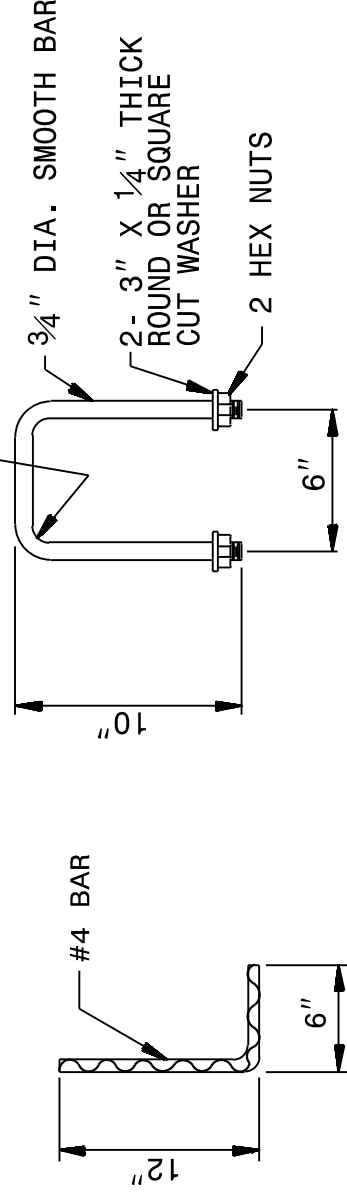
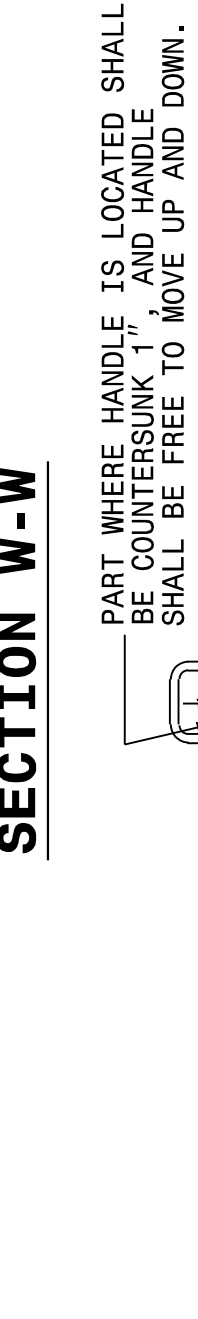


ENGLISH DETAIL DRAWING FOR
**CONCRETE CATCH BASIN
(3 OR 4 SIDE OPEN THROAT)
(MANHOLE OPTIONAL)**



SECTION OF CATCH BASIN MEDIAN STRIP

DETAIL SHOWING METHOD OF PLACING
CATCH BASIN AND PAVED SHOULDER GUTTER



PART SECTION

THRU COVER SHOWING HANDLE

DETAIL OF HANDLE

SEE PLATE FOR TITLE

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: rnbritt DATE: 07-03-2014
CHECKED BY: _____ DATE: _____
FILE SPEC.: details/rnbritt/english/hydro/840d04.dgn

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



10/13/2025