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 .jhoverton AT USD-252595

5/14/99

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

ENGLISH DETAIL DRAWING FOR
BRICK NARROW DROP INLET
12" THRU 24" PIPE

SHEET 1 OF 1
840D12

GENERAL NOTES:

CLASS 'B' CONCRETE TO BE USED.
ALL MORTAR JOINTS ARE 1/2" ± 1/8".
FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
BRICK MASONRY DROP INLET NOT TO BE USED IN LOCATIONS SUBJECT TO TRAFFIC.
JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.

SECTION X-X

SECTION Y-Y

DETAIL 840D13
FRAME AND GRATE

DIMENSIONS AND QUANTITIES FOR DROP INLET

PIPE	DIMENSIONS OF BOX & PIPE		CONC. IN BASE	TOTAL BRICK MASONRY			DEDUCTIONS FOR ONE PIPE		
	SPAN	WIDTH		HEIGHT	PER FT. HEIGHT	BRICK COPING	MIN. H	C.M.	R.C.
D	A	B	H (MIN.)	CY. YDS.	0.206	0.025	0.574	0.020	0.032
12"	2'-0"	0'-10"	2'-8"	0.133	0.206	0.025	0.574	0.020	0.032
15"	2'-0"	0'-10"	3'-0"	0.133	0.206	0.025	0.643	0.031	0.047
18"	2'-0"	0'-10"	3'-5"	0.133	0.206	0.025	0.729	0.044	0.065
24"	2'-0"	0'-10"	4'-0"	0.133	0.206	0.025	0.849	0.078	0.113

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ENGLISH DETAIL DRAWING FOR
CONCRETE NARROW DROP INLET
12" THRU 24" PIPE

SHEET 1 OF 1
840D11

GENERAL NOTES:

CLASS "B" CONCRETE TO BE USED THROUGHOUT.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTER, AS DIRECTED BY ENGINEER.
TWO 2" PIPE WEEP HOLES TO BE PLACED AS DIRECTED BY ENGINEER.
FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD 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.

SECTION X-X

SECTION Y-Y

DETAIL 840D13
FRAME AND GRATE

DIMENSIONS AND QUANTITIES FOR DROP INLET

PIPE	DIMENSIONS OF BOX & PIPE		CUBIC YARDS IN BOX	TOTAL QUAN. BOX & COVER	DEDUCTIONS FOR ONE PIPE			
	SPAN	WIDTH			HEIGHT	FLOOR & WALL PER COPING FT. H	CU. YDS. MIN. H	C.M.
D	A	B	H	CU. YDS.	MIN. H	C.M.	R.C.	
12"	2'-0"	0'-10"	2'-8"	0.129	0.142	0.507	0.015	0.024
15"	2'-0"	0'-10"	3'-0"	0.129	0.142	0.555	0.023	0.036
18"	2'-0"	0'-10"	3'-5"	0.129	0.142	0.614	0.033	0.049
24"	2'-0"	0'-10"	4'-0"	0.129	0.142	0.697	0.059	0.085

DIMENSIONS FOR CHANNELS

NO.	SIZE	LENGTH	TOTAL
			LTN. FT.
2	3" X 4.1#	2'-6"	5'-0"
2	3" X 4.1#	1'-10"	3'-8"

2" WEEP HOLES

WITH GRATE & FRAME REMOVED

SHOWING POSITION OF BOLTS

SEE NOTE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

SEE PLATE FOR TITLE

ORIGINAL BY: 1998 STDS

DATE:

MODIFIED BY: E.E. WARD

DATE: 3-21-02

CHECKED BY:

DATE:

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