

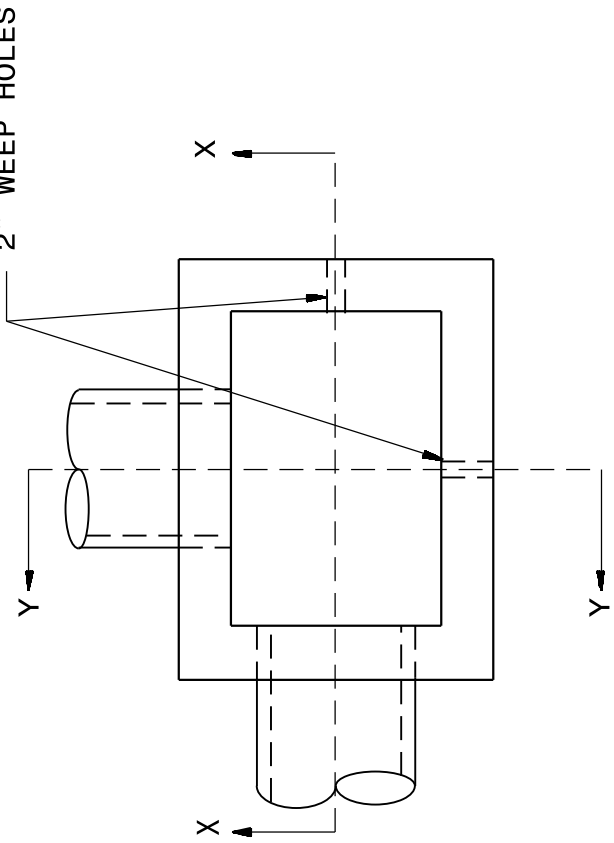
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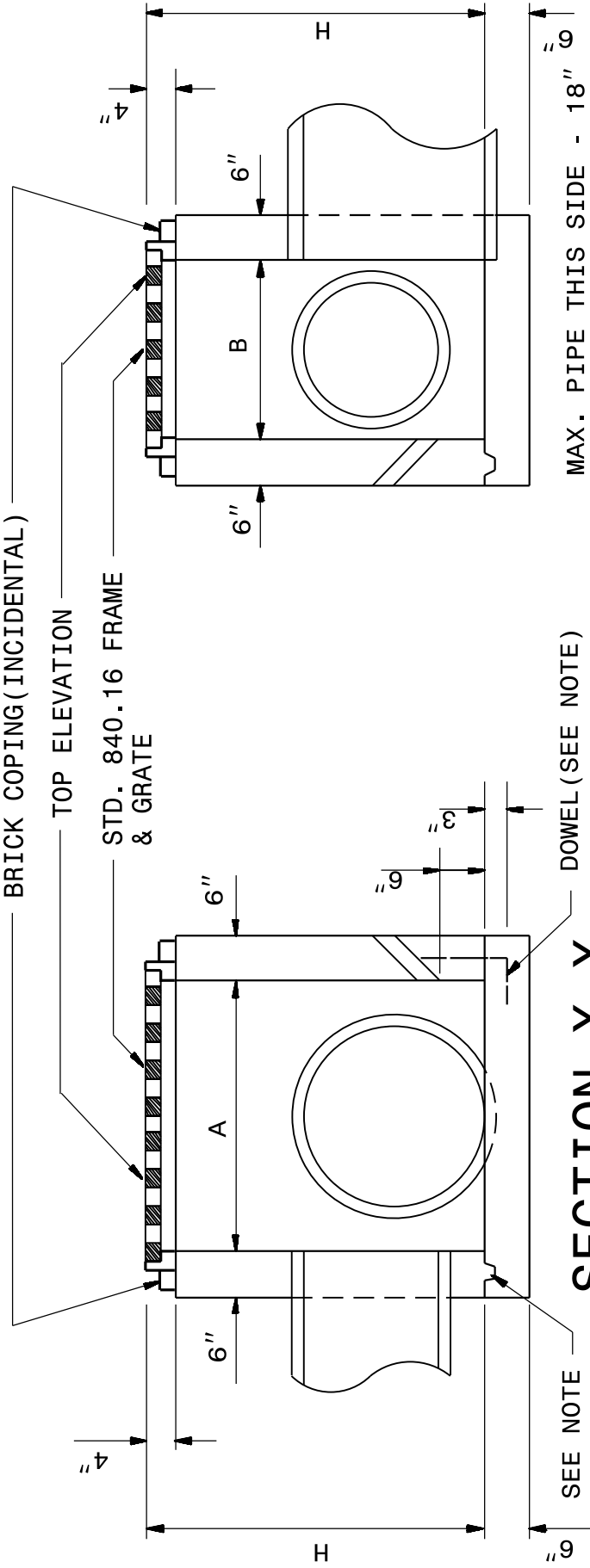
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH CONCRETE DROP INLET
12" THRU 30" PIPE

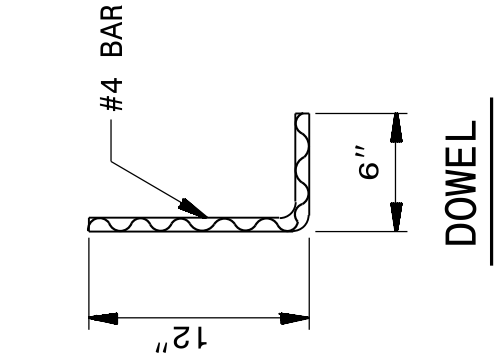
SHEET 1 OF 1
840D14



PLAN
WITH GRATE & FRAME REMOVED



SECTION X-X
SEE NOTE



SECTION Y-Y
MAX. PIPE THIS SIDE - 18"

DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)					DEDUCTIONS FOR		
DIMENSIONS OF BOX & PIPE		CUBIC YARDS		CONC. IN BOX	ONE PIPE		
PIPE	SPAN	WIDTH	MIN. HEIGHT		WALL PER FT. HT.	BOTTOM SLAB	R.C.
D	A	B	H		FT. HT.		
12"	3'-0"	2'-0"	1'-8"	0.222	0.222	0.555	0.015
15"			1'-11"	0.611	0.023	0.036	0.036
18"			2'-1"	0.667	0.033	0.049	0.049
24"			2'-9"	0.814	0.059	0.085	0.085
30"	3'-0"	2'-0"	3'-2"	0.222	0.222	0.925	0.092
							0.127

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
CONSTRUCT WITH PIPE CROWNS MATCHING.
INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.
INSTALL STONE DRAINS OF A MINIMUM OF 1 CUBIC FOOT OF NO. 76M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

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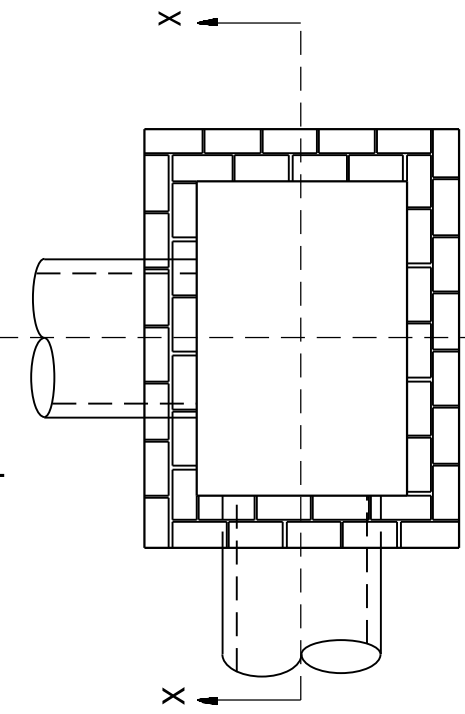
ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET OF
840D14

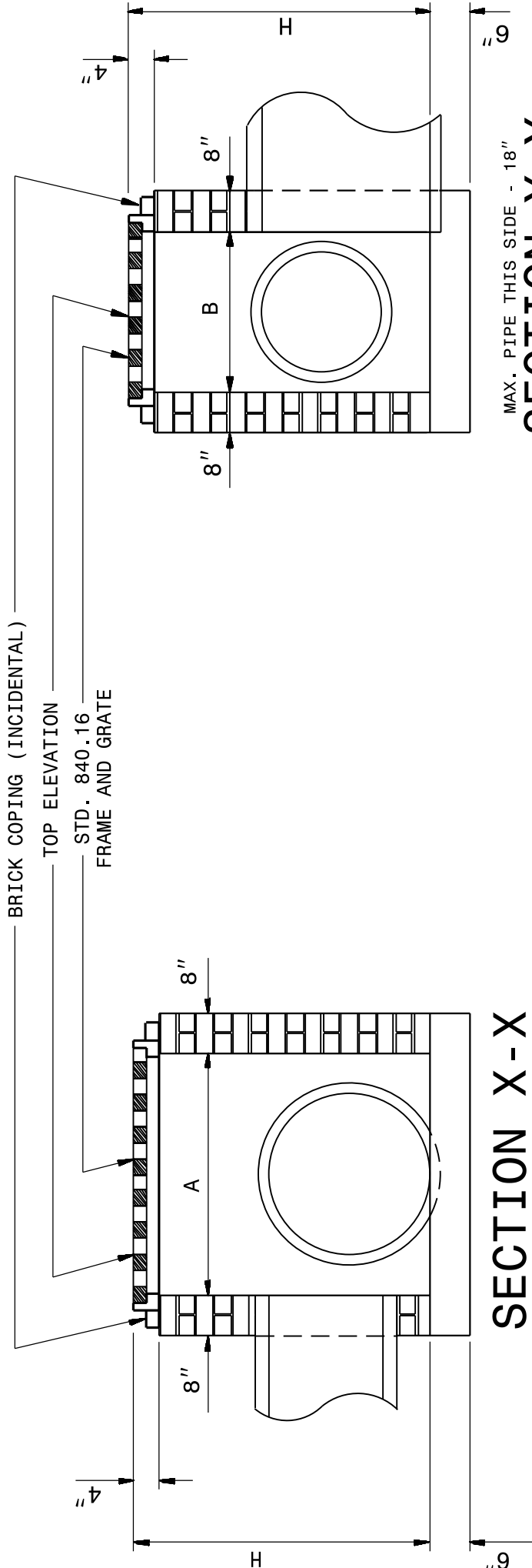
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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH BRICK DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840D15



PLAN
WITH COPING REMOVED



SECTION X-X

SECTION Y-Y
MAX. PIPE THIS SIDE - 18"

DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)					DEDUCTIONS FOR		
DIMENSIONS OF BOX & PIPE		CUBIC YARDS		CONC. IN BOX	ONE PIPE		
PIPE	SPAN	WIDTH	MIN. HEIGHT		WALL PER FT. HT.	BOTTOM SLAB	R.C.
D	A	B	H		FT. HT.		
12"	3'-0"	2'-0"	1'-8"	0.268	0.313	0.470	0.032
15"			1'-11"	0.268	0.313	0.548	0.031
18"			2'-1"	0.268	0.313	0.626	0.044
24"			2'-9"	0.268	0.313	0.835	0.078
30"	3'-0"	2'-0"	3'-2"	0.268	0.313	0.991	0.122
							0.170

GENERAL NOTES:
MORTAR JOINTS 1/2" TO 1/8" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
CONSTRUCT WITH PIPE CROWNS MATCHING.
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

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ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH BRICK DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840D15

ORIGINAL BY:2002 STD. 840.14 DATE:
MODIFIED BY:E.E. WARD DATE: 3-4-02
CHECKED BY: DATE:
FILE SPEC.:

SEE PLATE FOR TITLE

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

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