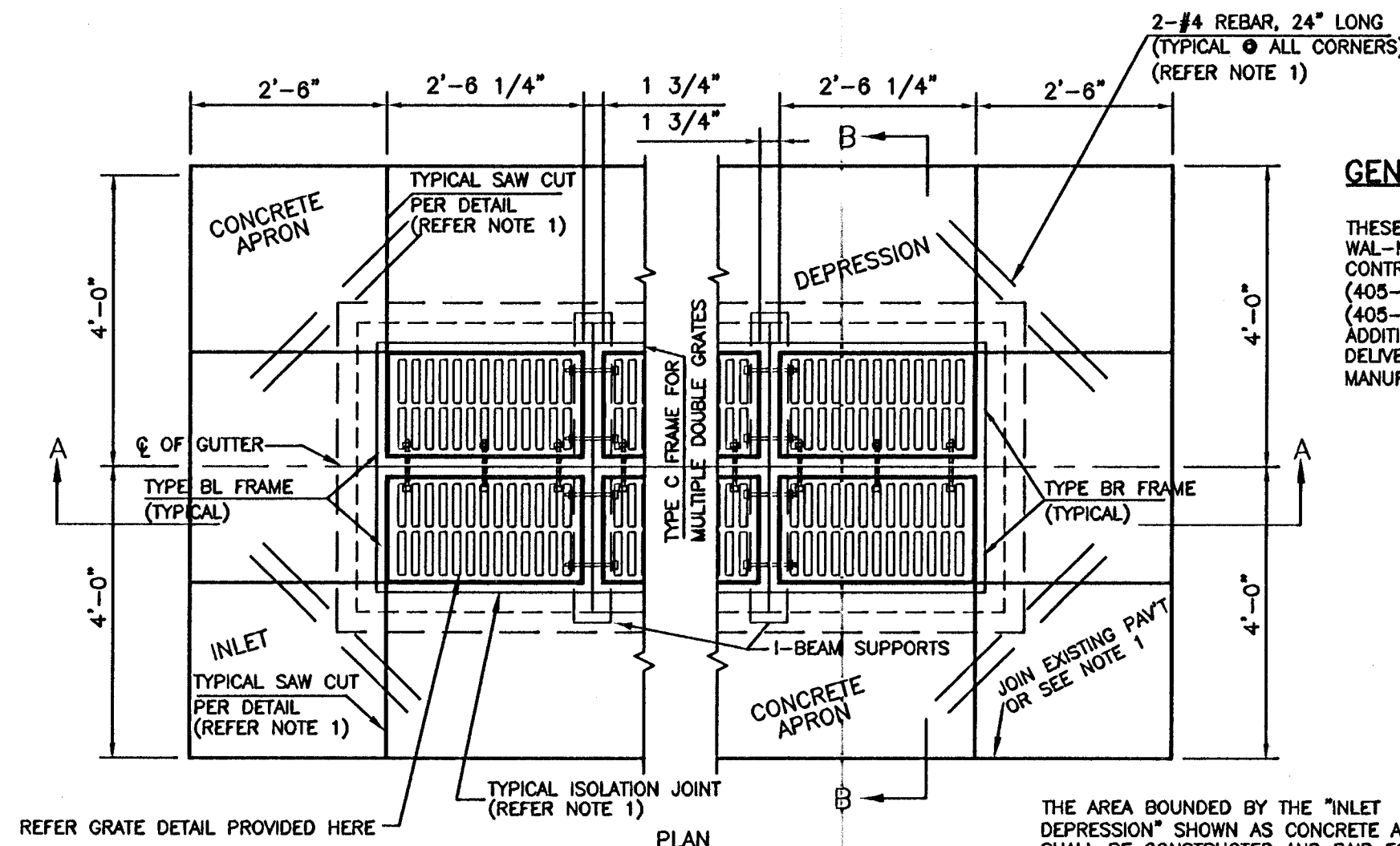
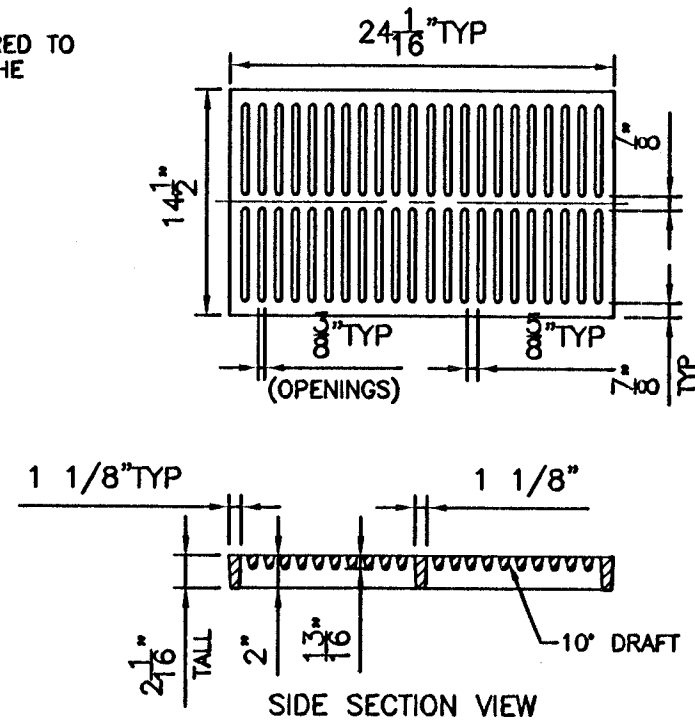




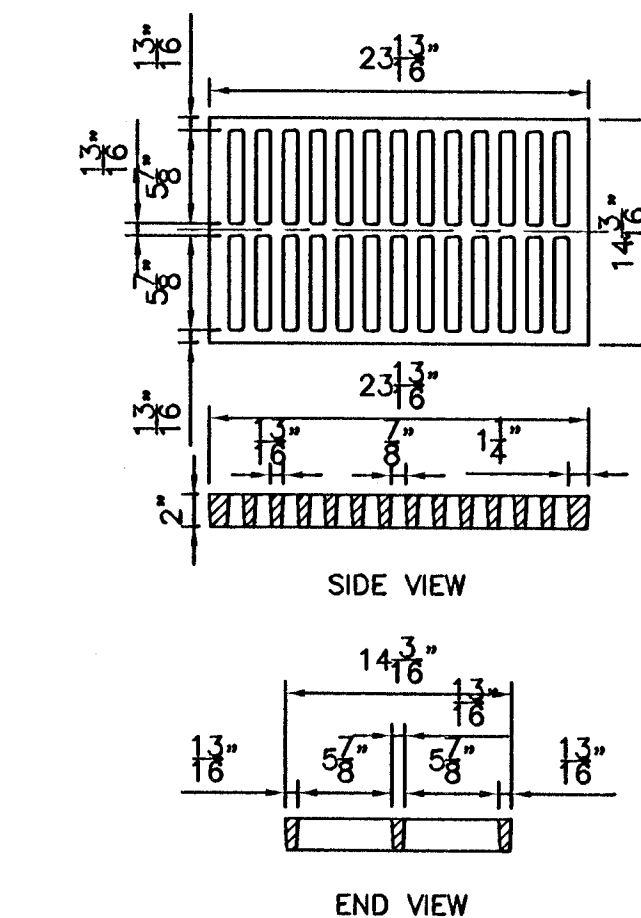
GENERAL NOTE FOR INLET GRATE:

THESE GRATES ARE CUSTOM DESIGN TO MEET LATEST WAL-MART SPECIFICATION SECTION 02830, PART 2.2. CONTRACTOR SHALL CALL NEENAH FOUNDRY (405-323-7811) OR EAST JORDAN FOUNDRY (405-949-5579) TO ORDER THESE GRATES. ADDITIONAL AMOUNT OF TIME MAY BE REQUIRED TO DELIVER THESE GRATES AS SUGGESTED BY THE MANUFACTURER'S REPRESENTATIVE.



EAST JORDAN IRON WORK FOUNDRY

N.T.S.



NEENAH FOUNDRY

N.T.S.

(405) 323-7811
(405) 942-8118

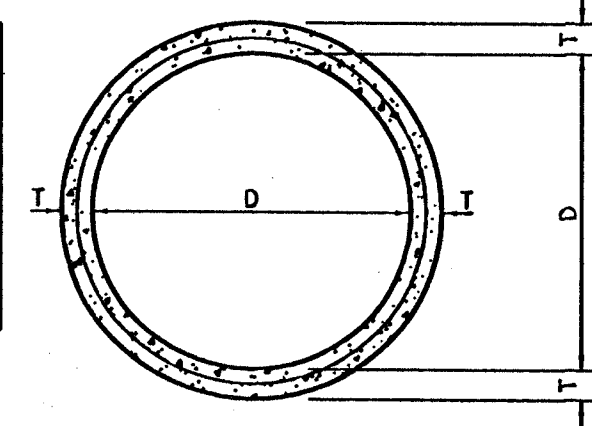
GENERAL NOTE:

- STORM SEWER STRUCTURES (JUNCTION BOX/MANHOLE/INLETS) SHALL BE PRE-CAST. NO BRICK CONSTRUCTION IS ALLOWED.
- A MINIMUM OF 6" THICK 1 1/2" CLEAN ROCK/AGGREGATE BASE (ASTM #57) WILL BE REQUIRED UNDER STORM SEWER STRUCTURES (JUNCTION BOX/MANHOLE/INLETS).

GENERAL NOTES

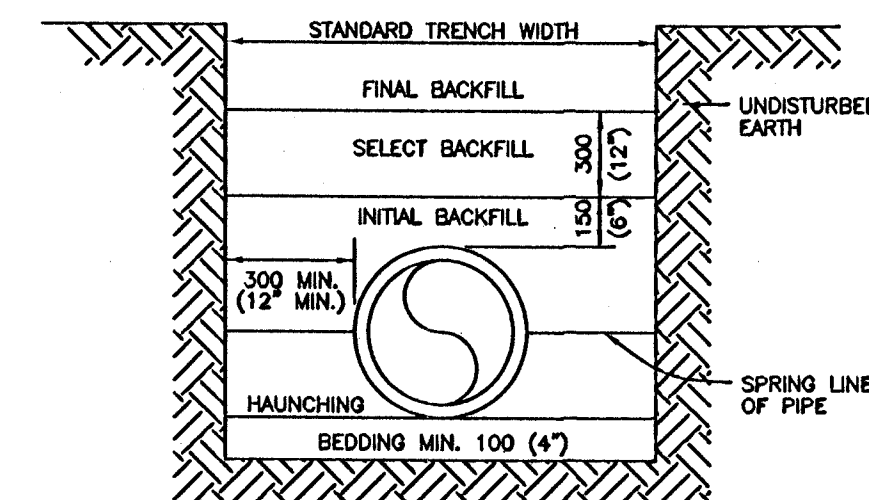
- CHAMFER ALL EXPOSED EDGES 3/4"
- ALL CONSTRUCTION AND MATERIALS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.
- MINIMUM DEPTH OF FILL OVER CULVERTS SHALL BE 1'-0"
- UNLESS OTHERWISE SPECIFIED, ALL EXPOSED CONCRETE SURFACES SHALL HAVE A FINISH IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS.

DIMENSIONS	
D	T
15"	2 1/4"
18"	2 1/2"
24"	3"
30"	3 1/2"
36"	4"
42"	4 1/2"



REINFORCED CONCRETE PIPE

N.T.S.



BACKFILL DESCRIPTION	NON-PAVED AREAS			PAVED AREAS (See Note 9)		
	CORRUGATED ALUMINUM	STEEL	CONCRETE	CORRUGATED ALUMINUM	STEEL	CONCRETE
FINAL BACKFILL	EXCAVATED MATERIAL	EXCAVATED MATERIAL	EXCAVATED MATERIAL	EXCAV. MAT.	SBM	SBM
SELECT BACKFILL	EXCAVATED MATERIAL	EXCAVATED MATERIAL	EXCAVATED MATERIAL	EXCAV. MAT.	SBM	SBM
INITIAL BACKFILL	SAND	SAND	SELECT FILL	SAND	SBM	SBM
HAUNCHING	SBM	SBM	SELECT FILL	SBM	SBM	SBM
BEDDING	SEE NOTE 5			SEE NOTE 5		

NOTES:

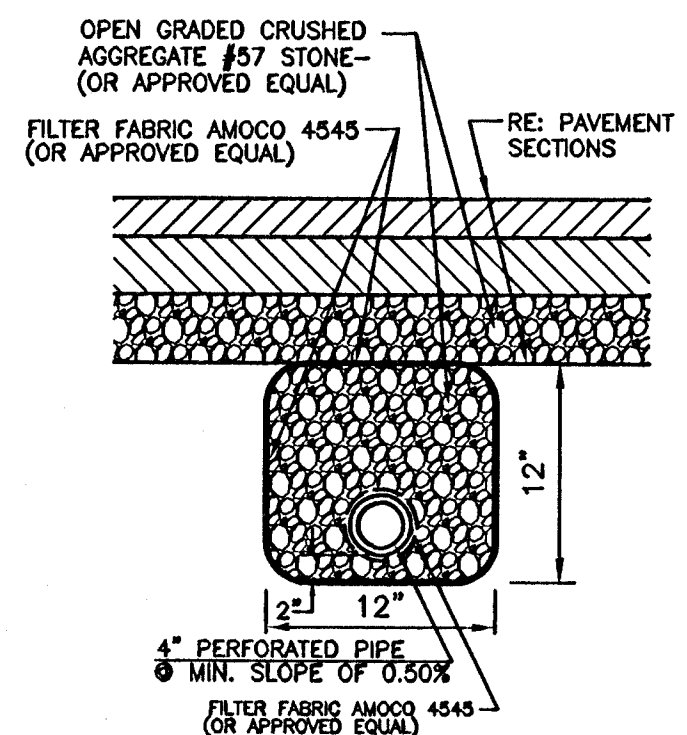
- INSTALLATION AND BACK FILLING SHALL MEET MANUFACTURER'S RECOMMENDATIONS.
- SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO MATERIAL LARGER THAN 50 MM (2") DIAMETER.
- STANDARD BEDDING MATERIAL (SBM) SHALL CONFORM TO KDOT TYPE AB-3 AGGREGATE BASE OR FLOWABLE FILL OR APPROVED EQUAL.
- COMPACTION REQUIREMENTS: 95% MAXIMUM STANDARD PROCTOR DENSITY.
- IF TRENCH IS DRY BEDDING SHALL BE 100 MM (#4) SAND OR TYPE A AGGREGATE BASE, AND IF WET SHALL BE NO. 57 OR NO. 67 ROCK PER ASTM D448.
- NO WATER SETTING ALLOWED.
- IN SANDY NON-PAVED AREAS, SAND CAN BE USED FOR ALL BACKFILL.
- FOR CONCRETE PIPE IN NON-PAVED AREAS, SAND CAN BE USED FOR ALL BACKFILL IF THE CONCRETE PIPE USES RUBBER O-RING JOINTS.
- THE BACKFILL MATERIAL SHALL EXTEND A MINIMUM OF 2'-FEET BEHIND THE BACK OF CURB, OR THE EDGE OF PAVEMENT WHERE NO CURB EXISTS.
- ADDITIONAL BEDDING MAY BE REQUIRED FOR SOFT SOIL AND SHALLOW GROUNDWATER CONDITIONS.

(METRIC UNITS ARE IN MM WITH ENGLISH UNITS IN PARENTHESIS, UNLESS INDICATED OTHERWISE.)

STORM SEWER PIPE TRENCHING AND BEDDING

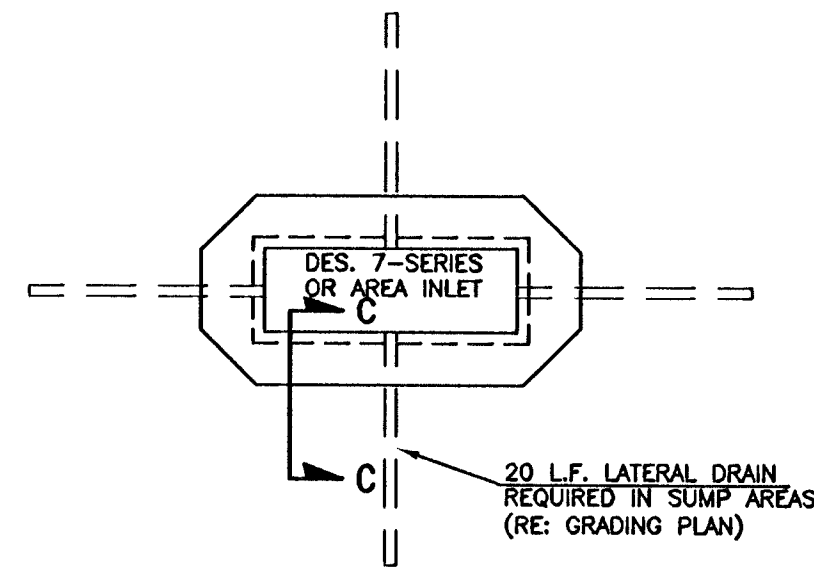
GENERAL NOTES - INFILTRATION DRAINS

- INFILTRATION DRAINS ARE PROVIDED HERE PER WAL-MART CONSTRUCTION MANAGER'S DIRECTION.
- INFILTRATION DRAINS WILL BE INSTALLED IN ADDITION OF THE WEEP HOLES.
- STORM SEWER SYSTEM SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF INFILTRATION DRAINS. CONTRACTOR SHALL ESTABLISHED LAYOUT OF THE INFILTRATION DRAINS WITHOUT CAUSING ANY CONFLICT WITH THE PROPOSED STORM SEWER SYSTEM AND OTHER UNDERGROUND UTILITIES.



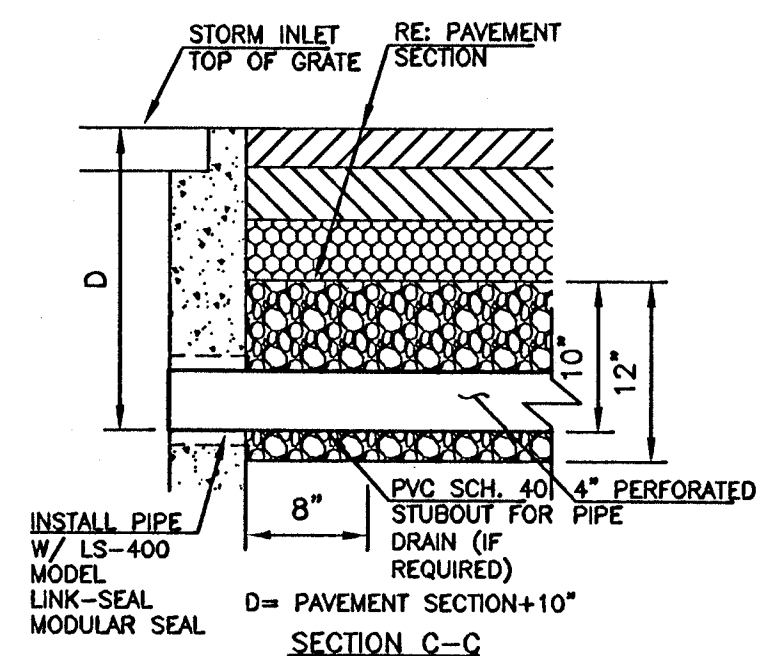
INFILTRATION DRAIN DETAIL

N.T.S.



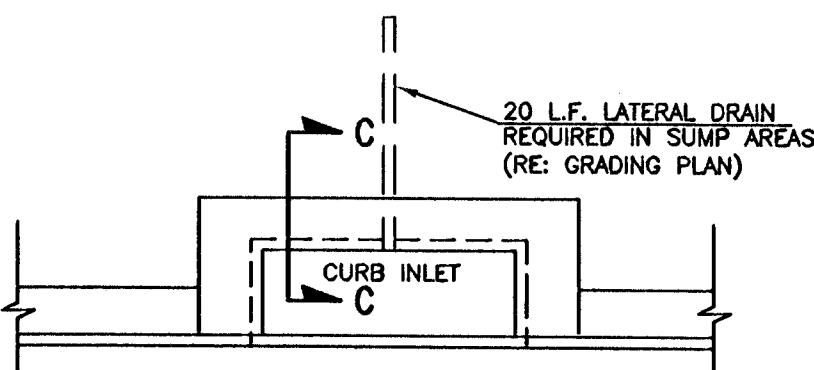
INFILTRATION DRAINS AT AREA INLET

N.T.S.



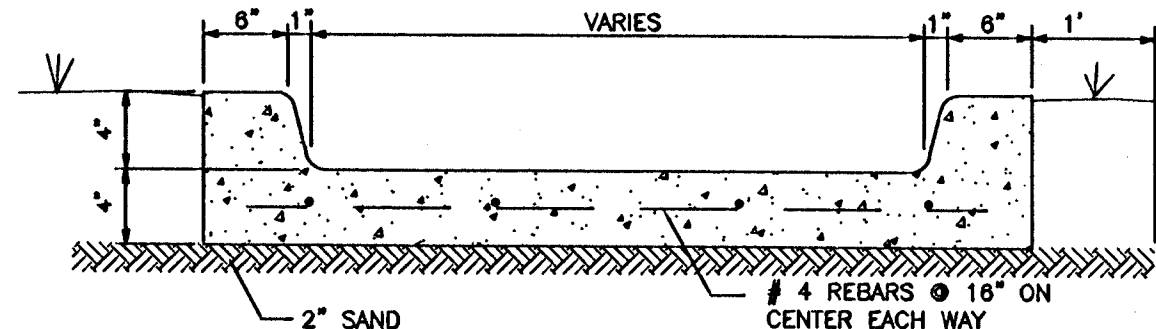
INFILTRATION DRAIN DETAIL

N.T.S.



INFILTRATION DRAINS AT CURB INLET

N.T.S.

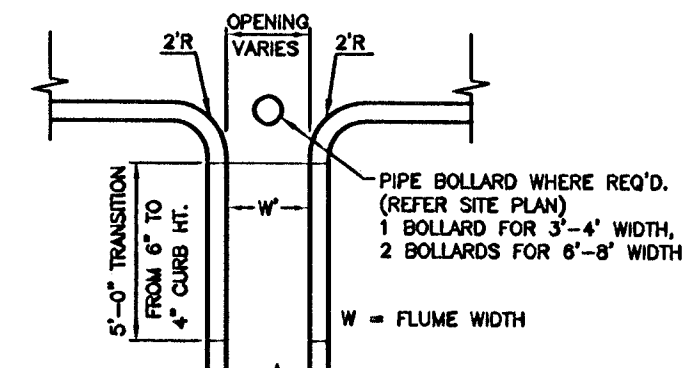


NOTE:

- PROVIDE CONTRACTION JOINTS @ 10' c/c.
- CONCRETE SHALL BE AIR ENTRAINED CLASS 'A' KDOT STANDARDS.
- ALL CONCRETE FLUMES SHALL BE CONSTRUCTED W/ CONTRACTION JOINTS @ 10' c/c AND CONSTRUCTION JOINTS @ 100' MAXIMUM. JOINTS SHALL BE SEALED PER CONCRETE JOINT DETAIL PROVIDED IN "MISCELLANEOUS DETAILS" SHEETS.

CURB FLUME DETAILS

N.T.S.



CURB OPENING

N.T.S.

(TYPICAL)

N.T.S.

MISCELLANEOUS STORM SEWER DETAILS

WAL-MART SUPERCENTER #4321-00

NW 53rd ST. NORTH & N. MERIDIAN
WICHITA, KANSAS

SMC Consulting Engineers, P.C.

815 West Main - Oklahoma City, OK 73108

PH: 405-232-7715 Fax: 405-232-7859

KANSAS CERTIFICATE OF AUTHORIZATION NO. E-335 EXP. DEC. 2008

No. Revision By Date

1 Per City comments MGS 02/23/07

DATE: 12/12/06

DRAWN BY: TN

PROJECT NO.: 4344.00

ENGINEER: TERENCE L. HAYNES, P.E. #14583

SHEET NO.

C-8.14

