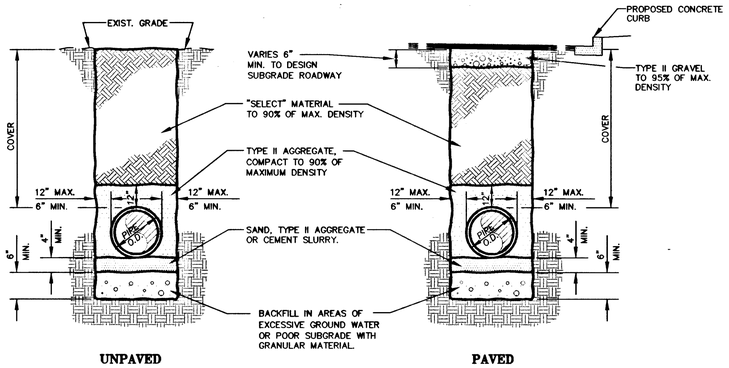


CONTRACTOR NOTE:
THIS PLATE APPLIES TO THE INSTALLATION OF ALL SERVICE LATERALS. TRENCH WIDTH MINIMUMS DO NOT APPLY TO LATERALS LESS THAN 4".

CONTRACTOR NOTE:
SEE SHEETS SD1 THRU SD10 FOR PLAN AND PROFILE OF STORM DRAIN. COVER SHALL BE AS SHOWN ON PROFILE SHEETS

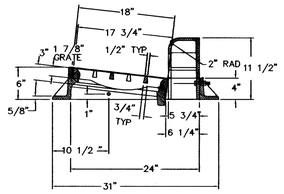
A SD11 TYPICAL TRENCH SECTION & BACKFILL SPECIFICATION
NTS — FOR RCP AND HDPE PIPES

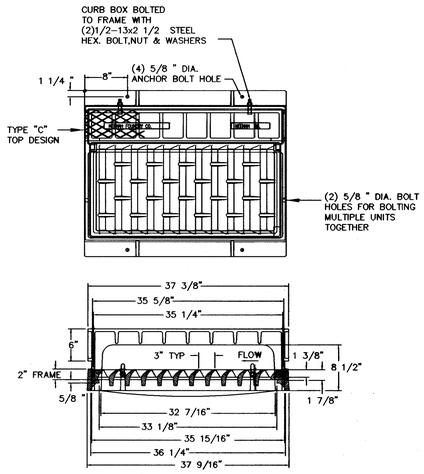
DROP INLET FRAME AND GRATE

NEENAH R-3295* SINGLE CURB INLET FRAME OR APPROVED EQUAL, TYPE "L" GRATE & CURB BOX OR APPROVED EQUAL.
(* MEETS AASHTO N306, 40,000 LB. PROOF LOAD SPEC.)

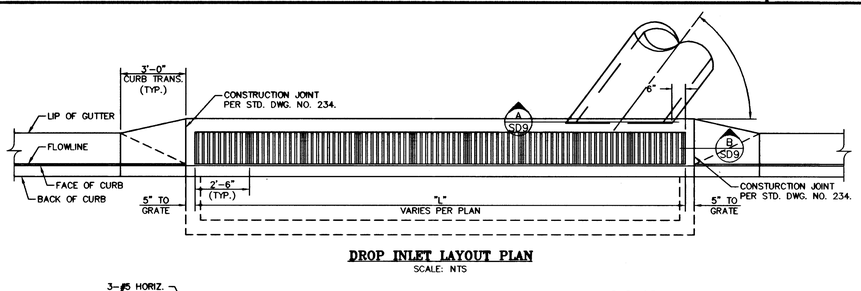
COMPONENT NO'S: FRAME 3295-2000; GRATE 3067-3000; CURB BOX 3295-7002
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NOT PAINTED
WEIGHTS: FRAME APPROX. 205#; GRATE APPROX. 138#; CURB BOX 123#

INLET FRAME AND GRATE DETAIL
NTS

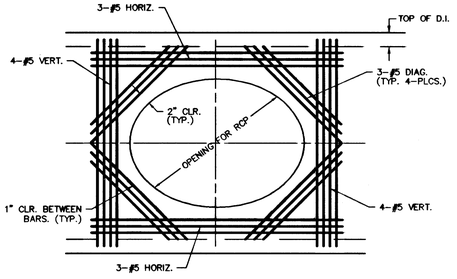




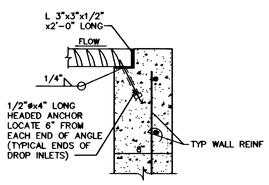
B SD11 DROP INLET GRATES
NTS



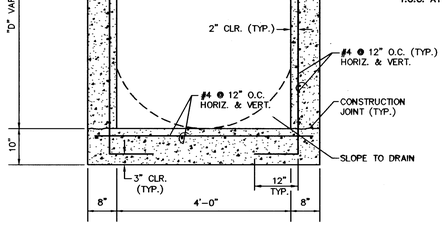
DROP INLET LAYOUT PLAN
SCALE: NTS



SECTION "A"
SCALE: NTS



SECTION "B"
SCALE: NTS



TYPE "CM2" DROP INLET SECTION
SCALE: NTS

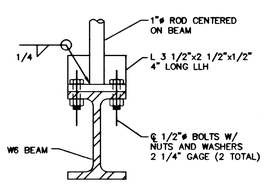
NOTE:
FINISH GRADE ELEVATIONS FOR MANHOLES AND DROP INLETS ARE AT THE CENTER OF MANHOLE LIDS AND T.O.C. AT THE CENTER OF STORM DRAIN LATERALS FOR DROP INLETS. SET FINISH GRADE ELEVATIONS FOR THE EDGES OF MANHOLE LIDS AND T.O.C. AT DROP INLETS PER STREET SLOPES.

STRUCTURAL GENERAL NOTES:

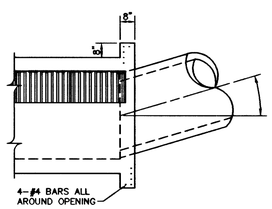
DESIGN SPECIFICATIONS:	ACI 318-95 BUILDING CODE REQUIREMENTS FOR STRCUTURAL CONCRETE. AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES
CONCRETE SPECIFICATIONS:	UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY, NEVADA LATEST EDITION.
DESIGN METHOD:	LOAD FACTOR DESIGN
LIVE LOAD:	AASHTO STANDARD HS20-44 AT BOX CULVERTS.
CONCRETE:	CLASS AA MODIFIED, MAJOR fc' = 4,000 psi CEMENT = ASTM C150, TYPE V
REINFORCING STEEL:	ASTM A615, fy = 60,000 psi

NOTES:

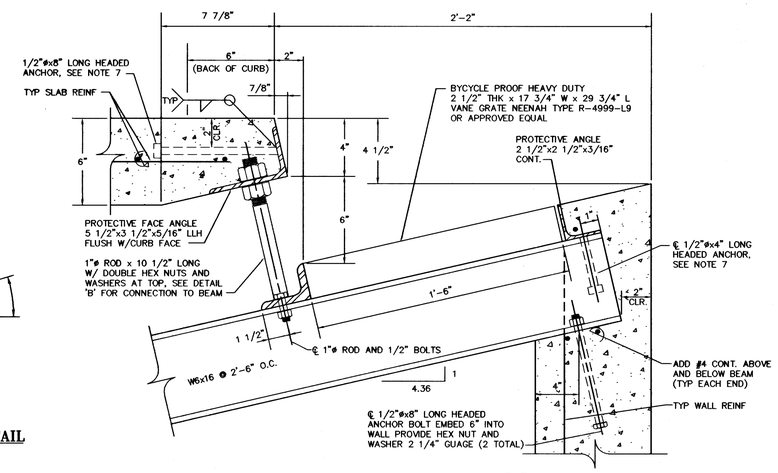
1. ALL EXPOSED METALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. PROVIDE 1/2" (MIN.) CLEARANCE ALL AROUND THE STEEL BEAM, DRY PACK AFTER INSTALLATION.
3. WHEN REQUIRED BY LENGTH OF OPENING, PLATE ANGLE MAY BE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE.
4. ALL GALVANIZING DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF GALVALLOY OR EQUAL.
5. CONCRETE SHALL BE MODIFIED CLASS AA, SEE SPECIAL PROVISIONS SECTION 501.
6. ANGLE ANCHORS SHALL BE EMBEDDED MIDPOINT IN EACH ENDWALL AND EVENLY SPACED. (MAXIMUM SPACING OF 24")



DETAIL "B"
SCALE: NTS

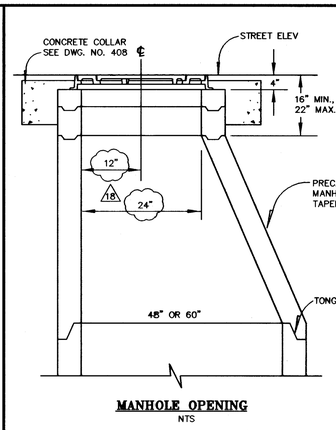


ALTERNATE CONNECTION DETAIL
SCALE: NTS

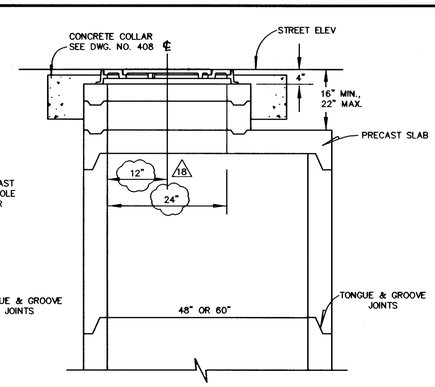


PROTECTIVE FACE & ROD - DETAIL "A"
SCALE: NTS

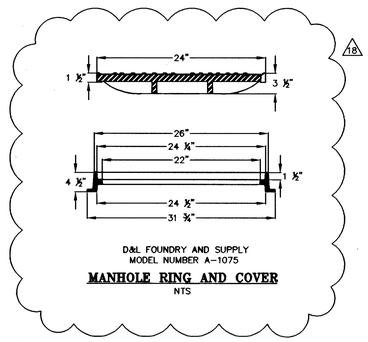
C SD11 MODIFIED TYPE 'C' DROP INLET
NTS



MANHOLE OPENING
NTS



MANHOLE OPENING
NTS



D&L FOUNDRY AND SUPPLY
MODEL NUMBER A-1075

MANHOLE RING AND COVER
NTS

D SD11 MANHOLE OPENINGS AND LID
NTS

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED
A	11/07/07	REVISE STORM DRAIN MANHOLE DETAIL "D"	

ENGINEERING DESIGN SECTION
DRAWN BY: P. PENAFIEL
DESIGNED BY: P. PENAFIEL
CHECKED BY: J. CHANG
DATE: 02-27-04
JOB NO.: 511521

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PROFESSIONAL ENGINEER - STATE OF NEVADA
KEVIN M. O'DONNELL
No. 12109
CIVIL
No. 017823
11-16-07

Department of Public Works
GRAND MONTECITO PARKWAY IMPROVEMENTS
STORM DRAIN DETAILS

CITY OF LAS VEGAS NEVADA

DRAWING No. SD11
33
PLAN# 107V3701
61

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REPLOT