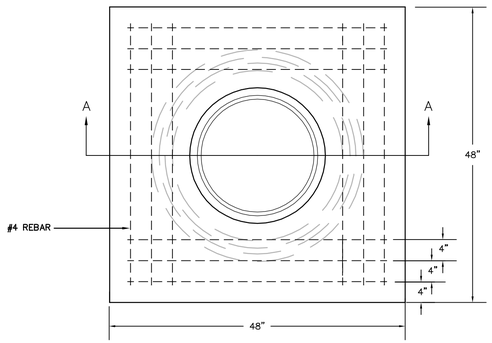
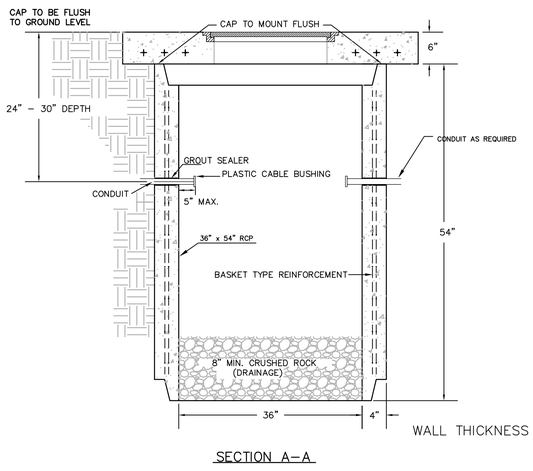
SERVICE BOX CONSTRUCTION/INSTALLATION DETAILS

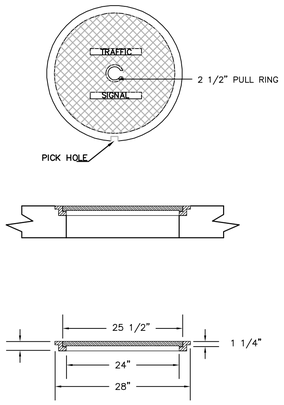


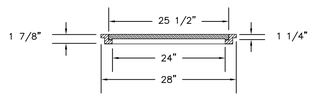
PRE-CAST CONCRETE SERVICE BOX

(36" I.D. X 54" RCP) with 6" CAP



SECTION A–A



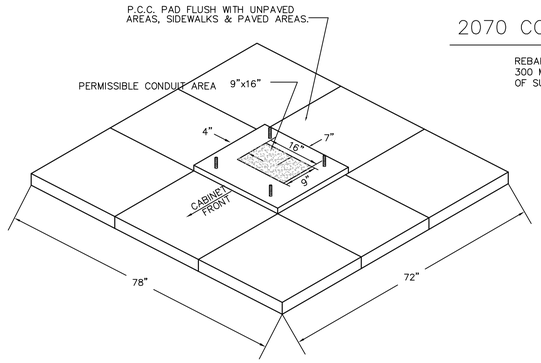


RING & COVER DETAIL

NOTE:

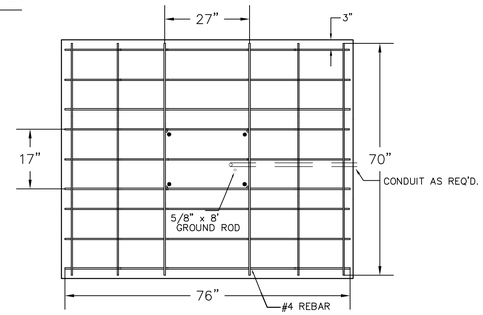
PAVMENT MARKINGS:

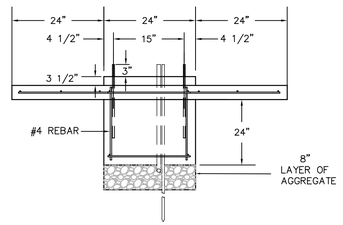
All pavement markings shall be thermoplastic (cold plastic). Pavement markings shall be installed per manufacturer's recommendations and shall meet KDOT's 90M–100–R10 specification (City Standard Specifications). Full Traffic may not be restored (and substantial Project Completion achieved) until all pavement markings are in place. Should construction timing be such that restoration of traffic becomes necessary during temperatures prohibiting the installation of thermoplastic markings, the Contractor shall install and maintain temporary markings until such time that thermoplastic markings may be properly installed. Except for material requirement, temporary pavement markings shall be placed equivalent, in every manner (i.e. dimension, frequency, spacing, etc.), to the permanent marking layout. The cost for temporary pavement markings will not be paid for directly, but shall be considered SUBSIDIARY to the bid item for "Pavement Markingand Signing".

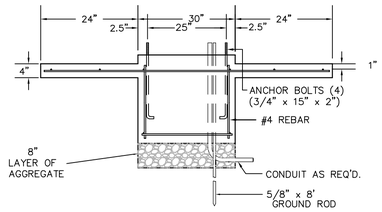


2070 CONTROLLER PAD DETAILS

REBAR SHALL BE ASTM A615M GRADE 300 MEETING THE REQUIREMENTS OF SUBSECTION SPECIFICATIONS.



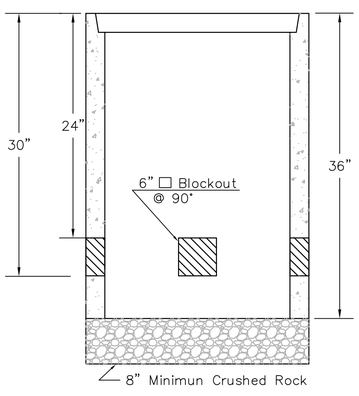




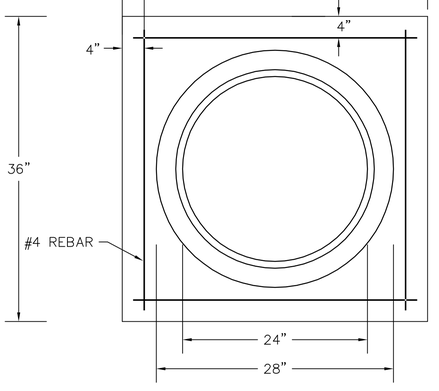
JUNCTION BOX DETAILS

PRE-FAB Junction Box

(24" I.D. X 36" R.C.P.)



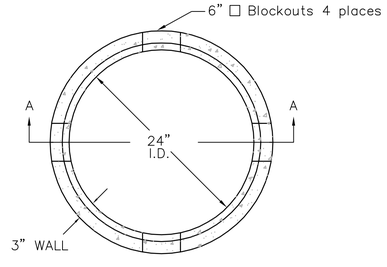
SECTION A–A



JUNCTION BOX CAP

36" x 36" x 6"

TOP OF CAP TO BE FLUSH WITH GROUND LEVEL.



** SEE SERVICE BOX INSTALLATION FOR RING & COVER DETAILS.

NOTES:

SERVICE & JUNCTION BOX:

1. CONDUIT CONNECTION TO BE FLUSH TO WITHIN 5" OF INSIDE FACE OF SIDE WALL, CONDUIT TO DRAIN INTO SERVICE BOX.
2. CONDUIT CONNECTIONS TO SERVICE BOX SHALL BE TERMINATED WITH PLASTIC CABLE BUSHING.
3. CONDUIT SHALL BE SEALED WITH APPROVED SEALER AT INSIDE WALL FACE.
4. ALL SERVICE & JUNCTION BOXES TO HAVE 8" OF CRUSHED ROCK.

TRENCHING:

1. DEPTH TO BE 30" MINIMUM WITH ROCK & STUBBLE FREE BACKFILL TO SERVE AS BEDDING MATERIAL. MAINTAIN MINIMUM CONDUIT DEPTH IN TRENCH.
2. BACKFILL TO BE COMPACTED IN 6" LOOSE LIFTS BY HAND OR MECHANICAL TAMPING TO A 95% STANDARD DENSITY.

CONDUIT:

1. SLOPE CONDUIT TO DRAIN AS DIRECTED BY THE ENGINEER.
2. 3" RIGID STEEL CONDUIT BTWN. SERVICE BOXES.
   2" " " " BTWN. SERVICE BOX AND POLE.
   1 1/4" " " " BTWN. SERVICE & JUNCTION BOXES.
   3/4" " " BTWN. JUNCTION BOXES.
   3/4" " " BTWN. JUNCTION BOX & DETECTOR LOOP SAW CUT

REV. DATE	COMMENTS	INT

Drawing File: E:\Eng\I-235 and Meridian Signalization\Details\SBDtl.dwg

October, 2007

Design: TCA Drawn: STAFF Approved: JFB Scale: None	Project No. 0702-E758 CAPITAL IMPROVEMENT PROJECT SERVICE BOX AND CONTROLLER PAD DETAILS I-235 and MERIDIAN SIGNALIZATION	Baughman Company , P.A. 315 Ellis St. Wichita, KS 67211 P 316.262.7271 F 316.262.0149 Baughman ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

SHEET 7 OF 8