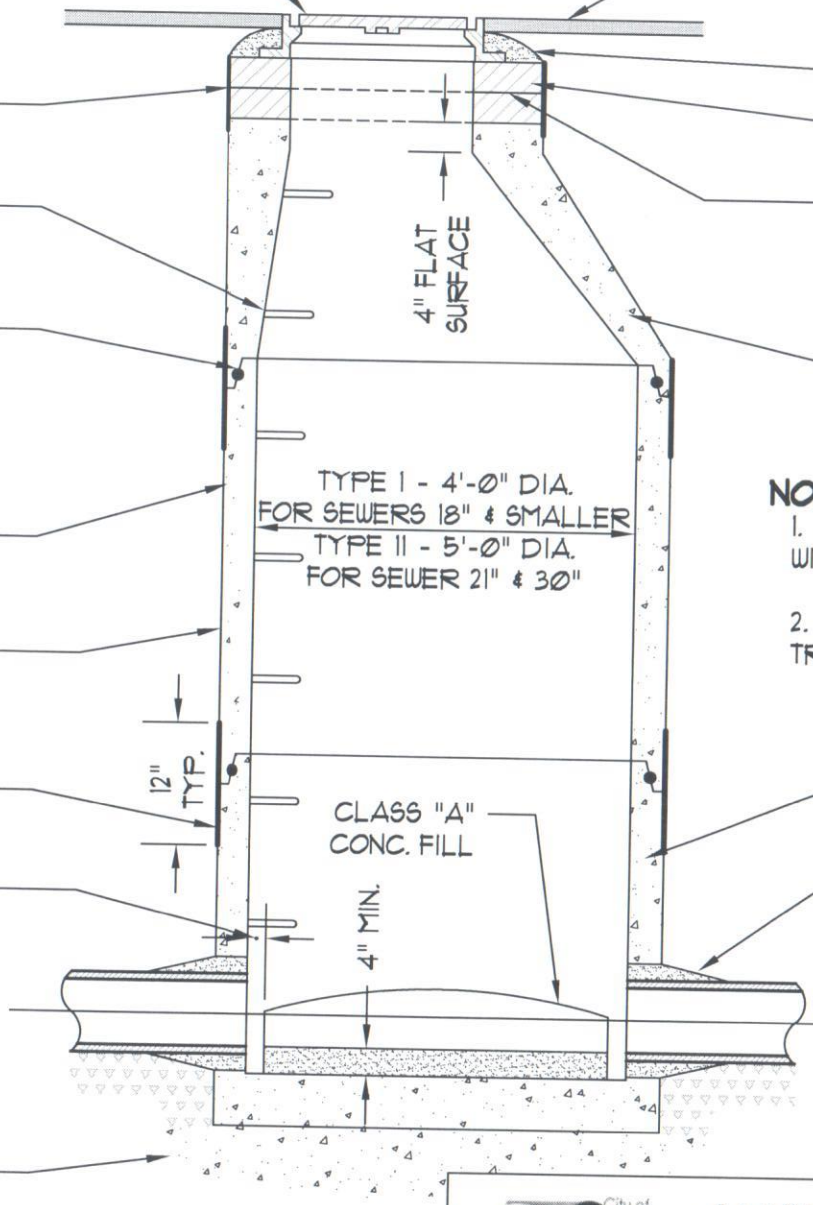

MANHOLE FRAME AND COVER NEENAH R-1642A, OR EQUAL FOR WATERTIGHT INSTALLATIONS NEENAH R-1916-F, OR EQUAL

BUTYL RUBBER COATING WITH PLASTIC WRAP COVER

PROVIDE MANHOLE STEPS @ 16" C/C IF REQUIRED BY UTILITY ENGINEER

SET BARREL JOINTS WITH RUBBER TYPE GASKET EQUAL TO ASTM C-443 AND ON DOUBLE ROW OF 1/2" KENT SEAL OR SINGLE ROW OF 1" KENT SEAL

REINFORCED CONCRETE MANHOLE SECTIONS ASTM C478

ENTIRE EXTERIOR OF MANHOLE TO BE SPRAYED WITH BITUMINOUS COATING

BUTYL RUBBER COATING WITH PLASTIC WRAP COVER AT JOINTS

FOR PRECAST INVERTS PROVIDE 1" APPROX. OPENING BETWEEN PIPE AND CHANNEL CONCRETE AT PENETRATION

BED BASE SECTION IN 4" (MIN.) CLASS "B" CONC. OR COMPACTED GRANULAR BEDDING MATERIAL, CONFORMING TO INDOT 903.02, SIZE NO. 8

1-1/2" MIN. FINISHED PAVEMENT

CEMENT MORTAR

CONCRETE ADJUSTING RINGS 8" MIN., 12" MAX.

KENT SEAL OR EQUAL BETWEEN ADJUSTING RINGS

REINFORCED CONCRETE ECCENTRIC CONE TOP ASTM C478

NOTES:

1. LIFT HOLES SHALL BE FILLED IN WITH NON-SHRINK MORTAR.

2. 5'-Ø" DIA. MANHOLES REQUIRE TRANSITION SECTIONS

PRECAST BASE SECTION ASTM C478

WATERTIGHT FLEXIBLE JOINTS SHALL BE RES-SEAL (PRICE BROS.), LOCK JOINT (INTERPACE CO.), KOR-N-SEAL (U.S. CONC. PIPE), OR EQUAL.

City of Carmel Utilities
STANDARD DETAILS

TITLE: TYPE I & II MANHOLES

DATE: December 2011
DRAWING: CS7

SCALE: Not To Scale

DRAWN BY: Jones & Henry Engineers, Ltd.
FORT WAYNE, INDIANA