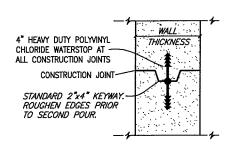
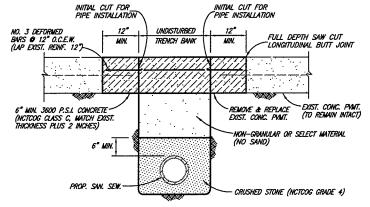
STANDARD SEWER NOTES

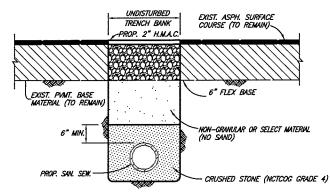
- 1. SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF ROCKWALL, SPECIFICATIONS AND CODES.
- FOR OPEN CUT SEWER REPLACEMENT. CONTRACTOR SHALL FURNISH & INSTALL GREEN SEWER E.M.T. MARKER PADS AT ALL MANHOLES. CLEANOUTS. SERVICES, CHANGES IN DIRECTION AND 250-FEET ALONG THE LENGTH OF THE SEWER LINE, PAYMENT FOR FURNISHING THE E.M.T. MARKER PADS SHALL BE SUBSIDIARY TO SEWER LINE INSTALLATION.
- STANDARD MANHOLE FRAMES AND 24" DIAMETER COVER SHALL BE PAMREX 24" AS MANUFACTURED BY CERTAINTEED CORPORATION, TYPE "S" MANHOLE FRAME AND 24" COVER SHALL BE PAMTIGHT 24" AS MANUFACTURED BY CERTAINTEED CORPORATION.
- 4200 P.S.I. CONCRETE SHALL BE USED FOR ALL MANHOLES.
- 5. USE ONLY A NON-SHEAR COUPLING FOR PIPE CONNECTIONS.
- 6. WHEN THE TRENCH SAFETY EXCEEDS 5 FEET IN DEPTH, THE CONTRACTOR SHALL MEET OR EXCEED THE O.S.H.A. STANDARDS FOR TRENCH SAFETY.
- EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION PROVIDED BY UTILITY COMPANIES AND FIELD SURVEYS. THE UTILITIES SHOWN MAY NOT REPRESENT ALL UTILITIES PRESENT. THE ENGINEER AND CITY OF ROCKWALL DO NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UTILITIES FROM DAMAGE AND SHALL REPAIR ANY UTILITIES DAMAGED BY THEIR OPERATIONS AT THEIR EXPENSE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS WITH UTILITES.
- 8. ALL SANITARY SEWER PIPE INSTALLED BY OPEN CUT SHALL BE SDR 35 PVC UNLESS SHOWN OTHERWISE.
- WHERE SPECIFIED, MANHOLES SHALL BE REHABILITATED AND MADE WATER TIGHT USING A COATING SYSTEM MANUFACTURED BY STRONG, QUAD-EX OR



MANHOLE CONSTRUCTION JOINT KEYWAY WITH WATERSTOP



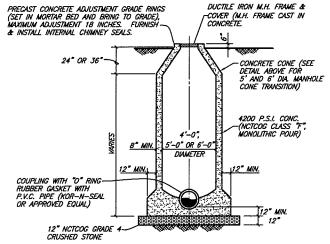
CONCRETE STREET OR DRIVEWAY REPAIR



3/8" DIA. STAINLESS STEEL PIPE STRAP SET IN CONCRETE

SEE MANHOLE STANDARD

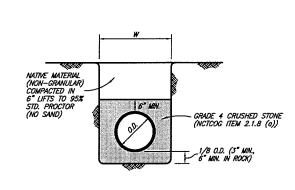
ASPHALT STREET OR DRIVEWAY REPAIR



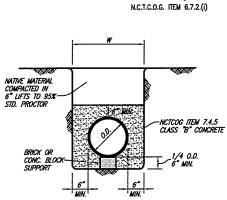
STANDARD MANHOLE ELEVATION 4', 5' & 6' DIAMETER MANHOLES

DROP MANHOLE (INSIDE DROP) SANITARY SEWER MANHOLE (CAST IN PLACE)

ELEVATION



CLASS H EMBEDMENT



CLASS G EMBEDMENT

This record drawing is a compilation of the seeled gineering drawing for this project; modified by addenda, ange orders and information furnished by the contractor. he information shown on the record drawings that was wided by the contractor or others not associated with the design engineer cannot be verified for accuracy or peteness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Conway, L.L.P.

<u>Plan</u>

BY P.A.C. DATE 10/14/09

2. ALL JOINTS IN PRECAST MANHOLE SHALL BE SEALED ON OUTSIDE OF MANHOLE WITH AQUAGARD SHRINK SEAL. USE O-RING RUBBER GASKETS AND PREFORMED JOINT SEALING COMPOUN PRECAST MANHOLE RISER SHALL BE IN ACCORDANCE WITH A.S.T.M. C-478-BOTTOM SECTION OF MANHOLE IN RISER PIPE LENGTHS OF ONE (1), —TWO (2) OR THREE (3) FEET TO BE SET ON 1" OF HIGH STRENGTH, NON-SHRINK, LEVEL GROUT, STUBOUT TO BE FITTED W/ STOPPER OR CAP. STUBOUTS SHALL BE A MIN. OF 5' LONG (TYP.) W/ CONCRETE CRADLE UNDER ENTIRE LENGTH. NCTCOG CLASS F -CONCRETE BASE COUPLING WITH O-RING RUBBER CASKET WITH P.V.C. PIPE (KOR-N-SEAL)— OR APPROVED EQUAL 12" NCTCOG GRADE 4 CRUSHED STONE MAT TO BE LAID ON FIRM MATERIAL OR ROCK FOUNDATION 2

8" x 24" DIA. PRECAST REINFORCED CONCRETE GRADE RINGS (SET IN MORTAR BED AND BRING TO GRADE) RINGS 18" MAXIMUM) FURNISH AND INSTALL

CONCENTRIC MANHOLE CONE.

PRECAST CONCRETE MANHOLE NO SCALE

BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS

PAMREX 24 M.H. FRAME & COVER —(M.H. FRAME CAST IN CONCRETE

WITH CONTINOUS POUR FROM BASE) -MORTAR COATING

NUIES:

1. FOR MANHOLES WITH DAMETER
LARGER THAN 48" LD., A PRECAST
FLAT TOP MANHOLE COVER AS PER
A.S.T.M. C478 SHALL BE INSTALLED.

11910 Greenville Ave., Suite 600 Dallas Texas (214) 361-7900



CITY OF ROCKWALL, TEXAS SQUABBLE CREEK INTERCEPTOR, PHASE II REHABILITATION **SEWER NOTES & DETAILS**

PROJECT NO 2008-130

SHEET NO.

9

February, 2009

REVISED: 10/14/09 - JUAN MORALES

H:\Projects\Rockwall\2008130\Sheets\2008130-DETAILS.dwg

PLOT SCALE: 1:1

PLOTTED BY: JUAN MORALES ON 10/14/2009 PLOT STYLE: ----

PAUL A. CARLINE

85400