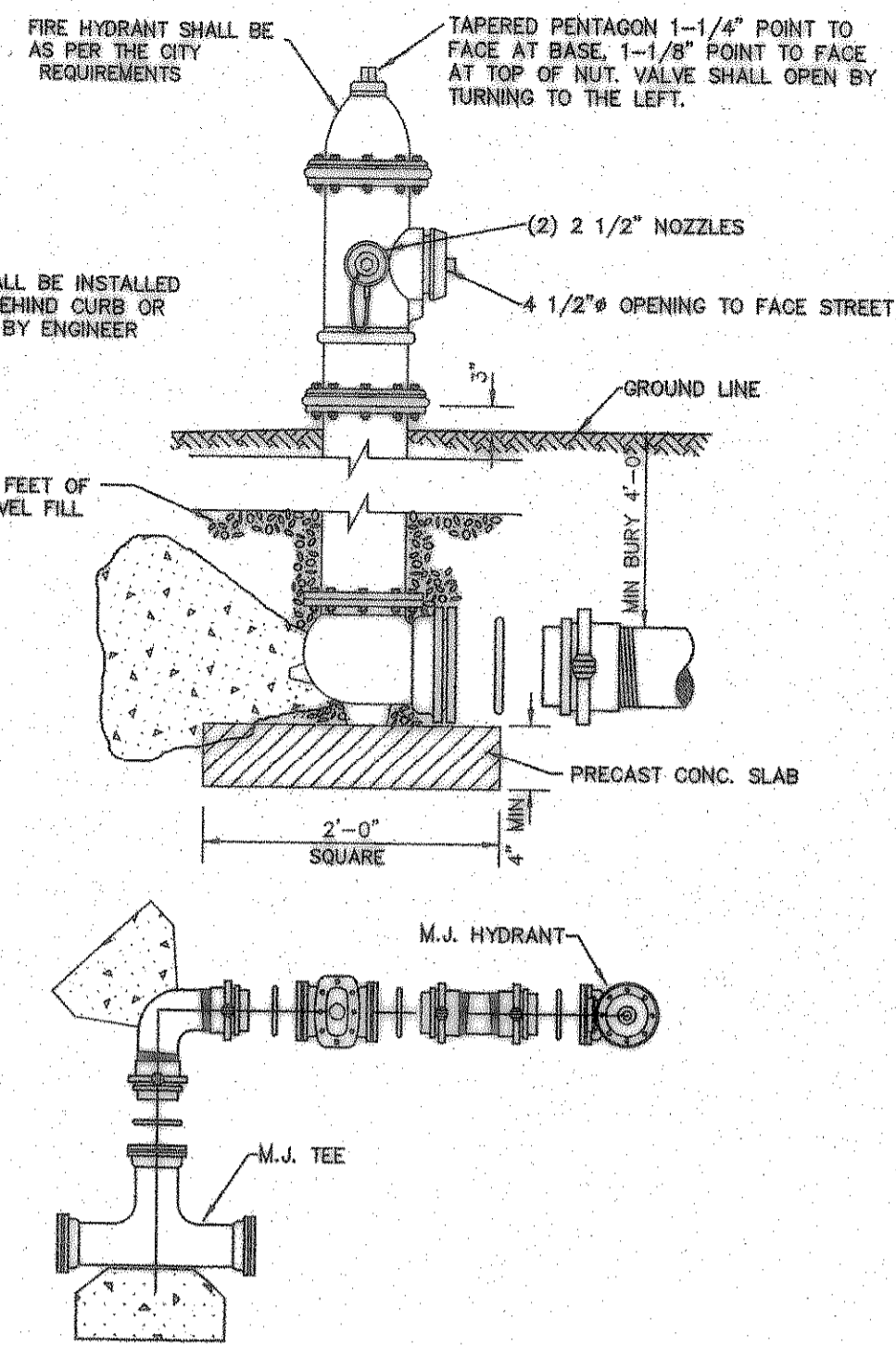
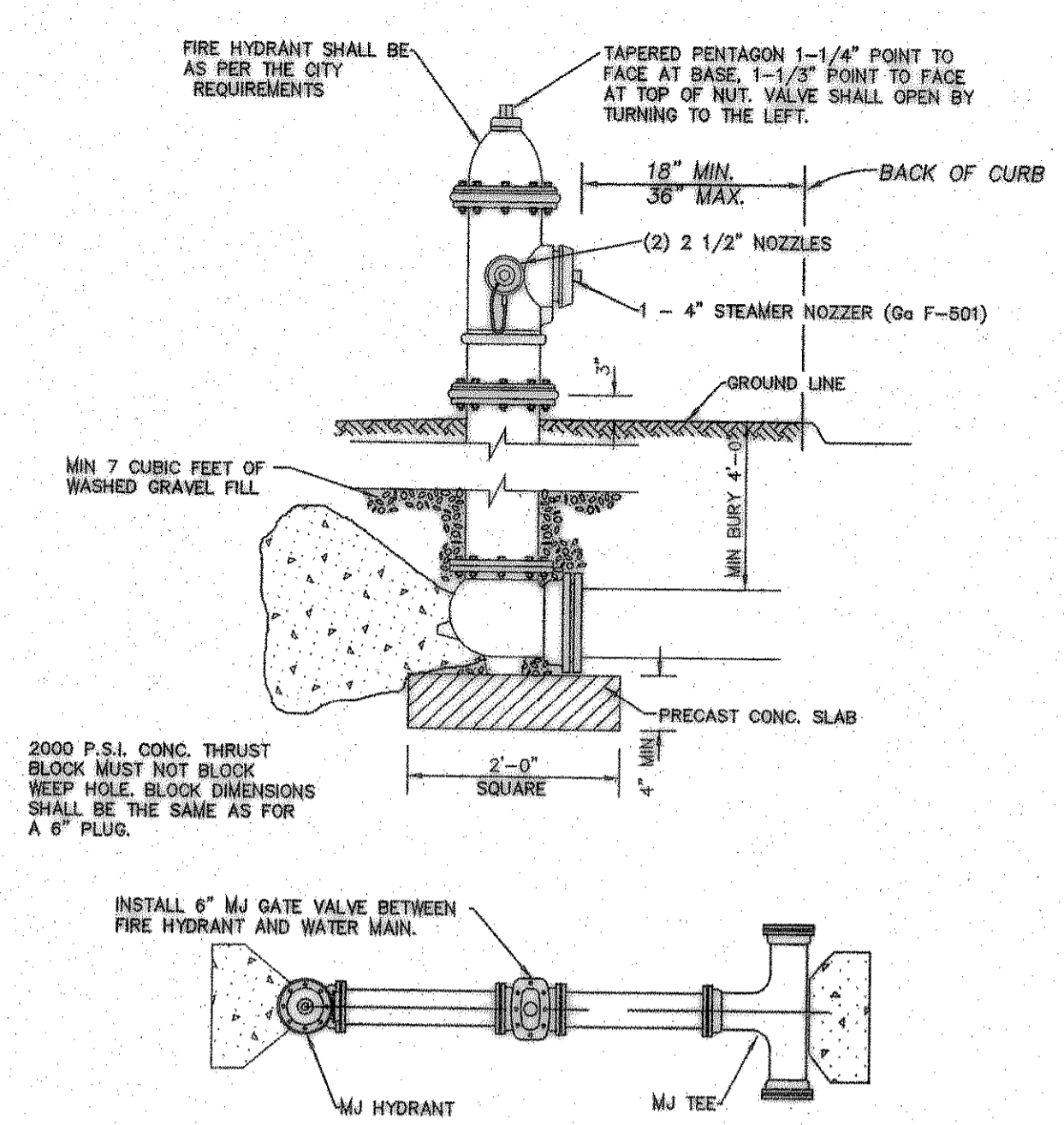


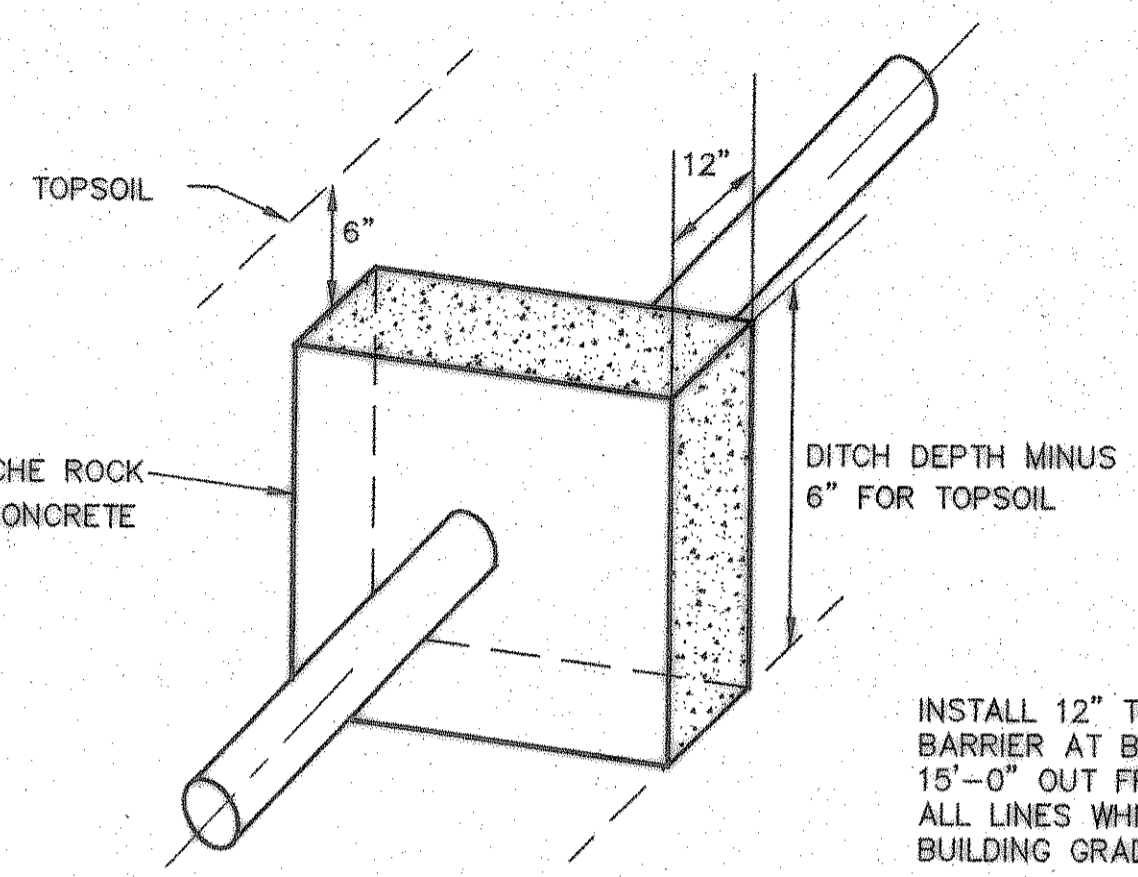
Aug 07, 2007 - 2:19pm User: Robert Howman
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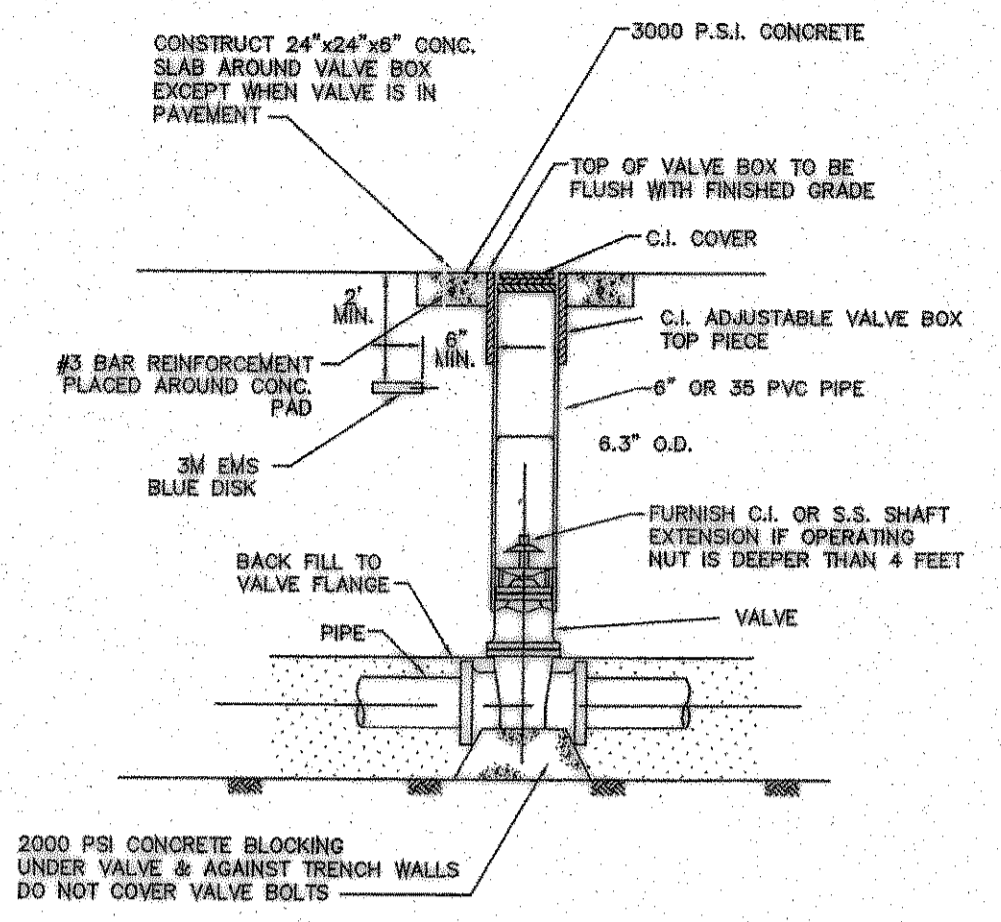
FIRE HYDRANT ASSEMBLY DETAIL
 RESTRAINED JOINT INSTALLATION
 NOTE: USE WHERE THERE IS INSUFFICIENT UNDISTURBED TRENCH TO BLOCK HYDRANT.



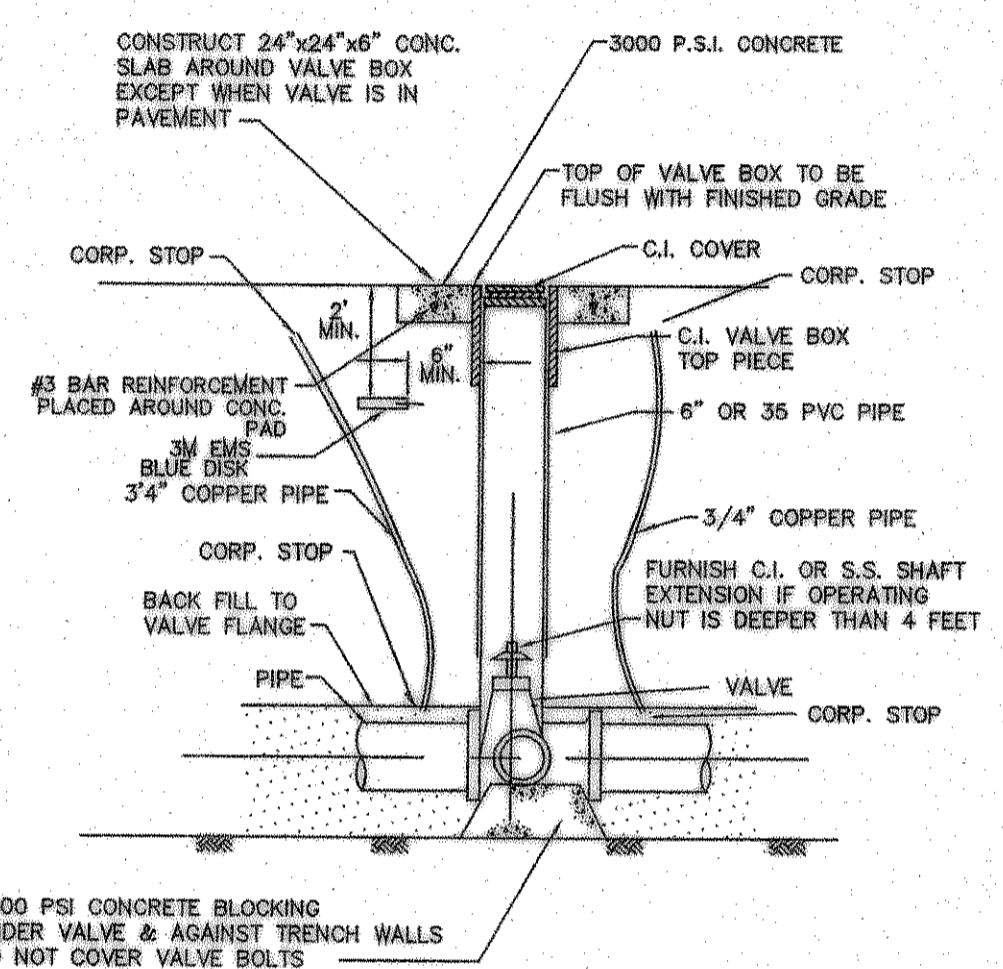
FIRE HYDRANT ASSEMBLY DETAIL
 BLOCKED INSTALLATION



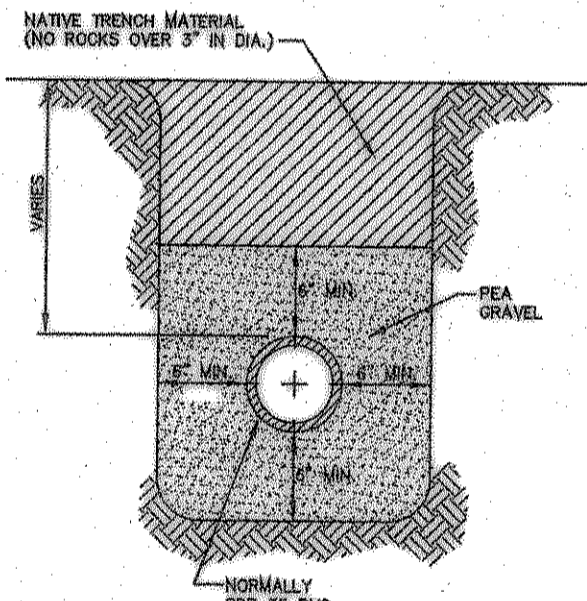
IMPERVIOUS BARRIER



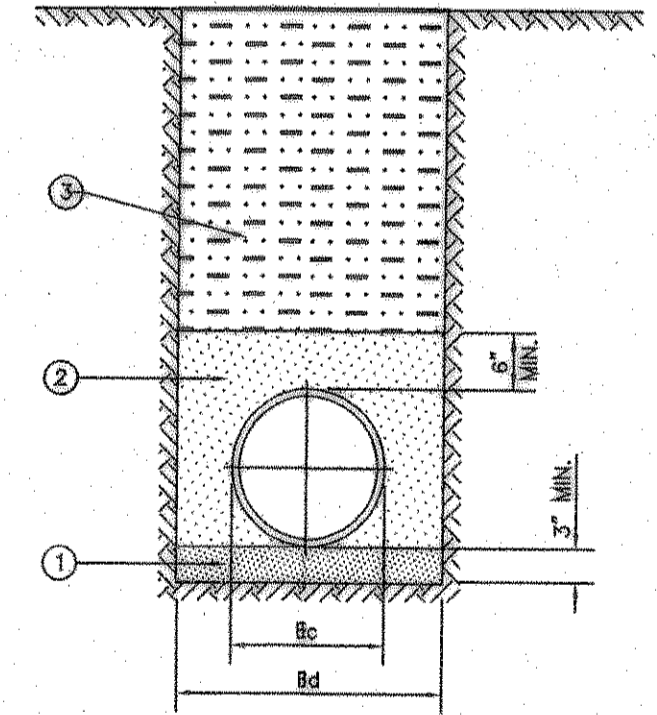
TYPICAL VALVE INSTALLATION DETAIL



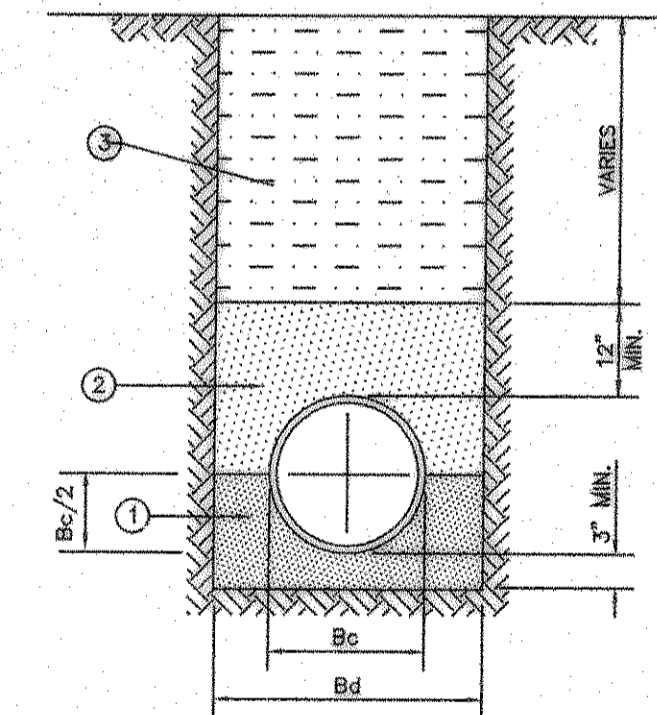
BUTTERFLY VALVE INSTALLATION DETAIL



SANITARY SEWER



CLASS "C-2" EMBEDMENT
 WATER

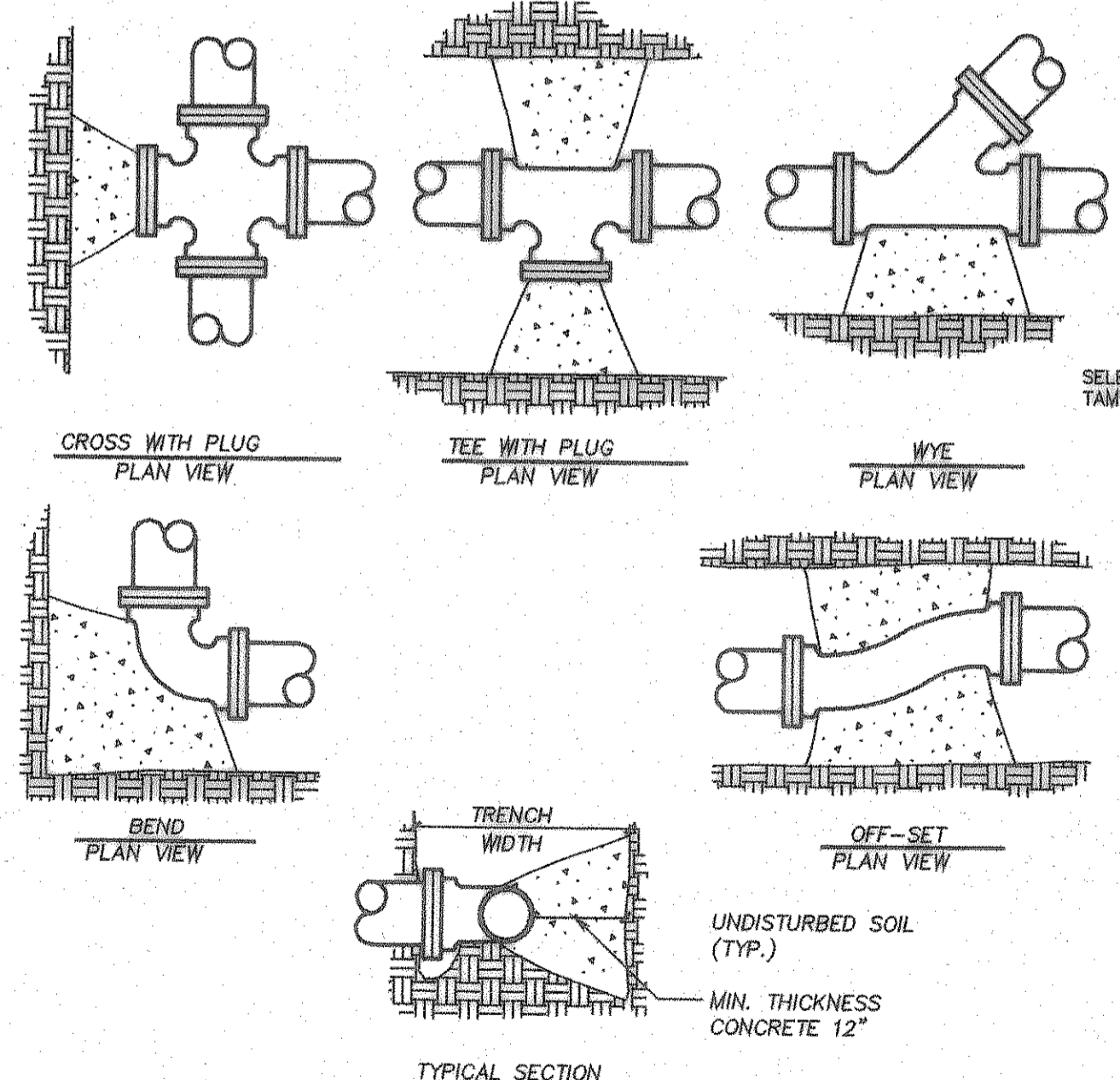


CLASS "B+" EMBEDMENT
 ROOF DRAIN LINES, AND STORM SEWER LINES

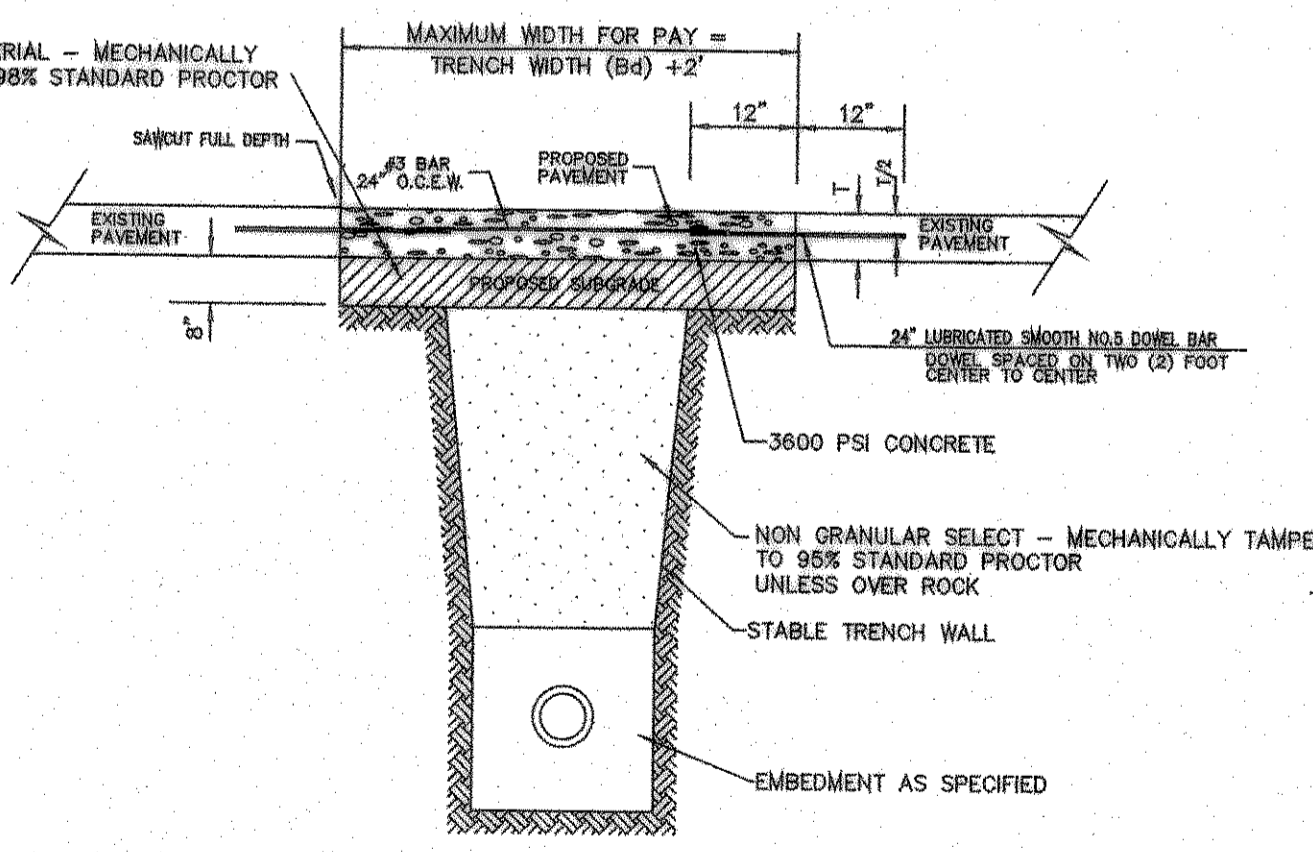
UTILITY DETAILS
 AS SHOWN

RECORD DRAWING
 This is to certify that changes and corrections have been made to conform to the contractor's record of this project.
 Signed: *[Signature]* 8-7-07
 Glenn Engineering Corporation

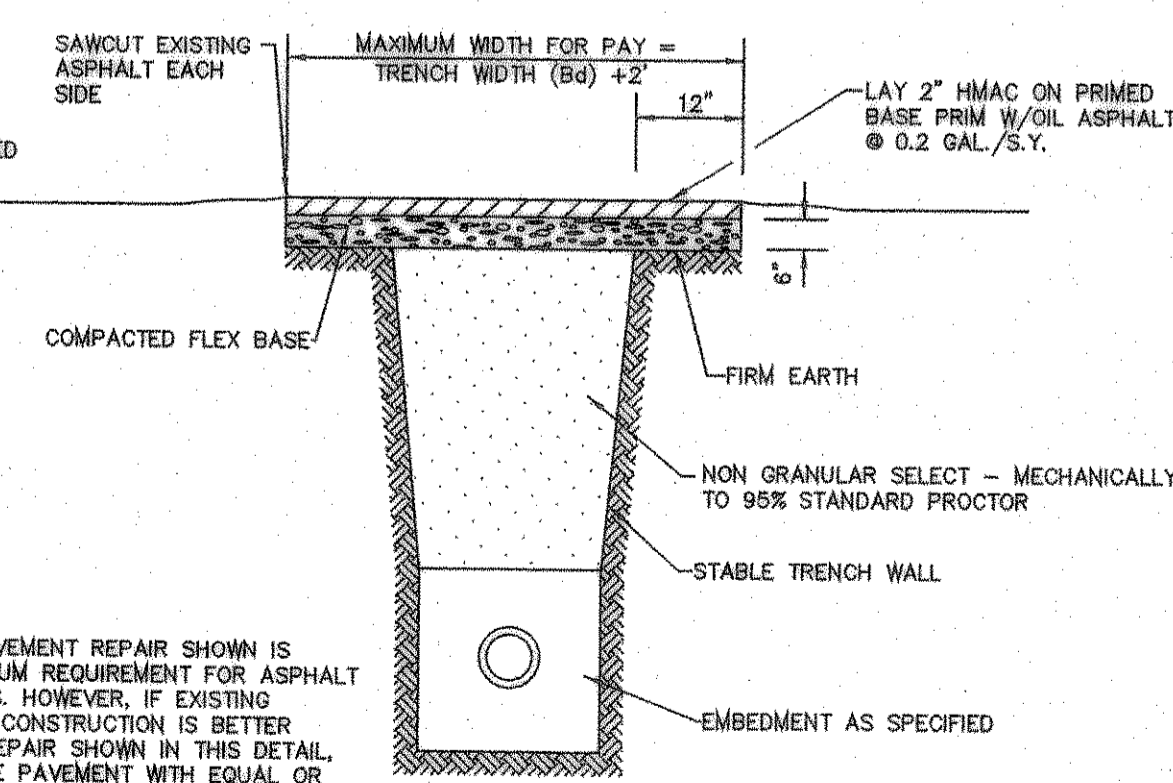
GLENN ENGINEERING
 PHONE 972-717-5811 FAX 972-717-2176
 105 DECKER COURT - SUITE 910 IRVING, TEXAS 75038



TYPICAL THRUST BLOCKS
 NOT TO SCALE



EMBEDMENT UNDER CONCRETE STREETS & PAVEMENT REPAIR DETAIL
 N.T.S.



EMBEDMENT UNDER ASPHALT STREETS & PAVEMENT REPAIR DETAIL
 N.T.S.

- NOTES:**
- THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 - IN UNSTABLE MATERIALS, FOR VERTICAL BENDS OR OFFSETS, BLOCKING SHALL BE DESIGNED FOR ACTUAL THRUST USING THE FORMULA $P=125(H)(A)\sin 1/2$ WHERE H=1-1/2 RATED HEAD, A=AREA OF PIPE IN SQ. FT., =ANGLE, AND P = THRUST IN POUNDS.
 - BEFORE POURING, PLUGS SHALL BE WRAPPED WITH VISQUEEN AND A BOARD PLACED IN FRONT.
 - CONC. SHALL BE 2500 PSI MIN.
 - THRUST BLOCKS SHOWN ALSO APPLY TO SANITARY FORCE MAINS.
 - PLUMBING CONTRACTOR TO FURNISH SIZES OF THRUST BLOCKS FOR APPROVAL PRIOR TO CONSTRUCTION.

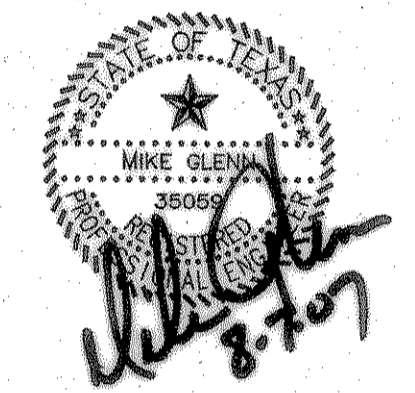
- NOTES:**
- NO. 5 SMOOTH DOVEL BAR MAY BE USED IN 5", 6" AND 7" PAVEMENT THICKNESS.
 - LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTOR'S OPTION.
 - DOVEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL DIG. DRILLING BY HAND IS NOT APPLICABLE. PUSHING DOVEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

NOTE:
 THE PAVEMENT REPAIR SHOWN IS A MINIMUM REQUIREMENT FOR ASPHALT STREETS. HOWEVER, IF EXISTING STREET CONSTRUCTION IS BETTER THAN REPAIR SHOWN IN THIS DETAIL, REPLACE PAVEMENT WITH EQUAL OR BETTER CONSTRUCTION, MATERIAL, THICKNESSES & QUALITY.

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FINAL PLANS FOR BIDDING AND CONSTRUCTING



Rockwall Independent School District

ROCKWALL ELEMENTARY SCHOOL #11
 RISD, TEXAS

Project Number: 1441.05.021
 Drawing Date: 3/09/2006
 Drawn: R.HOWMAN
 Checked: RAH
 Scale: AS SHOWN
 ACAD File: BUSIEK-Details-ALL.dwg
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Revisions:

1	07/20/2006	CITY COMMENTS
2	08/15/2006	CITY COMMENTS
3	10/17/2006	REVISED BOX ELEVATIONS
4	10/23/2006	WATER REVISIONS

Sheet Title:
WATER DETAILS

CU 1.08