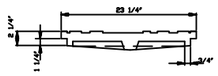
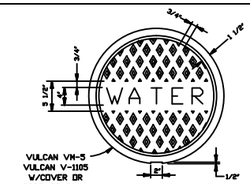
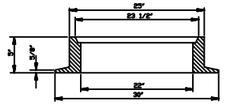


COVER SECTION
N.T.S.

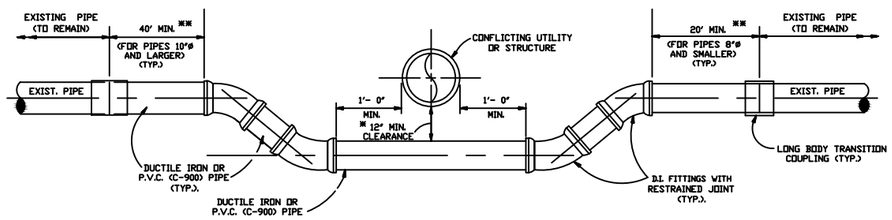


FRAME COVER
N.T.S.



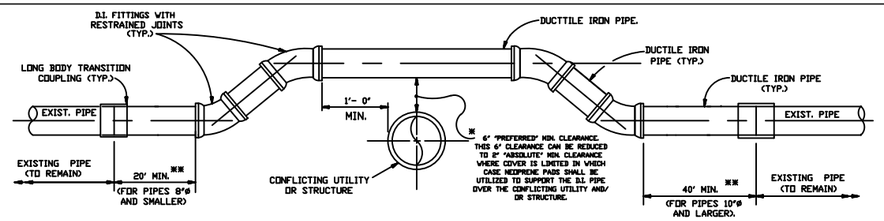
FRAME SECTION
N.T.S.

MANHOLE COVER
N.T.S.



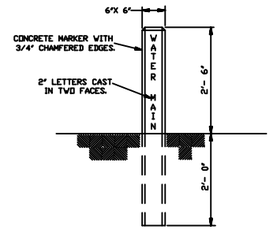
TYPICAL VERTICAL (UNDER) OR HORIZONTAL OFFSET DETAILS
FOR WATER AND SEWER FORCE MAINS
N.T.S.

* EXCEPTION. MINIMUM CLEARANCE SHALL BE 18" BETWEEN POTABLE WATER AND SANITARY SEWER LINES.
** REQUIRED MIN. RESTRAINED LENGTH.

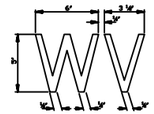


* EXCEPTION. MINIMUM CLEARANCE SHALL BE 18" BETWEEN POTABLE WATER AND SANITARY SEWER LINES.
** REQUIRED MIN. RESTRAINED LENGTH.

TYPICAL VERTICAL (OVER) OFFSET DETAILS
FOR WATER AND SEWER FORCE MAINS.
N.T.S.

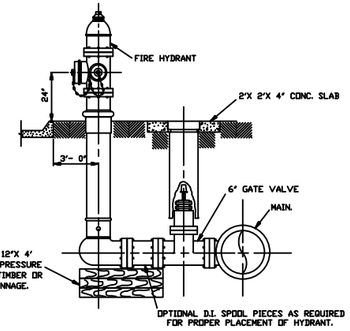


MARKER FOR WATER MAINS 14" AND ABOVE
N.T.S

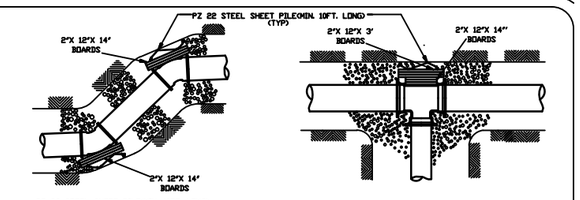


TO BE PLACED IN FACE OF NEW CURB AT EVERY VALVE.

VALVE MARKER
N.T.S.



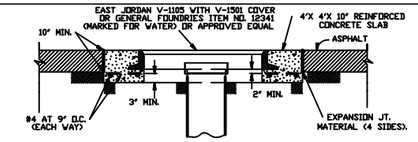
FIRE HYDRANT ASSEMBLY DETAIL
N.T.S.



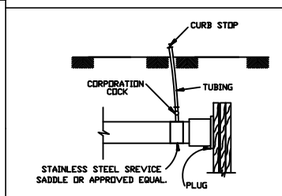
THRUST BLOCKING DETAILS *
N.T.S.

NOTE:
NUMBERS AND DIMENSIONS OF REQUIRED BOARDS WILL DEPEND ON THE PIPE SIZE AND TRENCH WIDTH AND SHALL BE DESIGNED ACCORDINGLY. BOARD AND STEEL SHEET PIPE SIZES AND DIMENSIONS SHOWN ARE TYPICAL FOR EIGHT-INCH PIPE. BOARD SHALL BE CYPRESS, PRESSURE TREATED TIMEED TIMBER OR OAK DUNNAGE.
THRUST BLOCKING DETAIL FOR LARGER PIPES SHALL BE SUBMITTED TO JEFFERSON PARISH FOR APPROVAL.

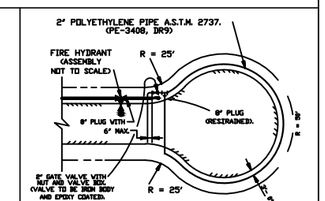
* UNLESS FIELD CONDITIONS AND / OR SPECIAL DESIGN CONDITIONS NECESSITATE. USE OF THRUST BLOCKING SHALL NOT BE PERMITTED. THRUST BLOCKS ARE PERMITTED ONLY WHEN AN ADEQUATE LENGTH OF PIPE CAN NOT BE RESTRAINED DUE TO FIELD CONDITIONS AND/OR FOR TEMPORARY CONSTRUCTION.



VALVE BOX MANHOLE COVER FOR TRAFFIC AREAS.
N.T.S.

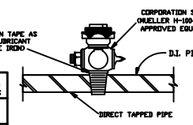


TEMPORARY BLOW-OFF DETAIL

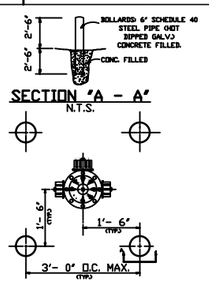


CUL-DE-SAC DETAIL

NORMAL PIPE SIZE, INCHES	SIZE OF CORPORATION STOP, INCHES
16" AND SMALLER	1
16" THROUGH 36"	2
LARGER THAN 36"	3

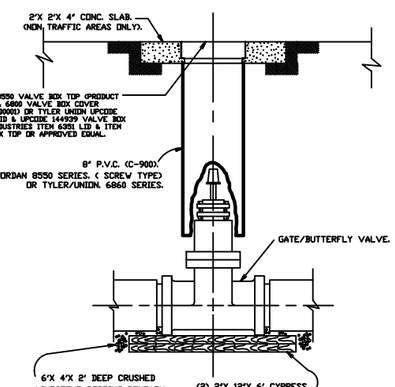


TYPICAL AIR VALVE INSTALLATION
N.T.S.

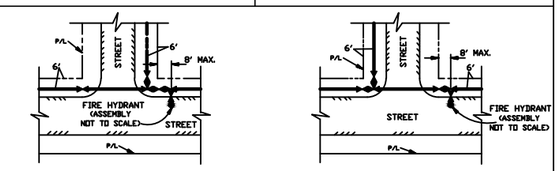


SECTION "A - A"
N.T.S.

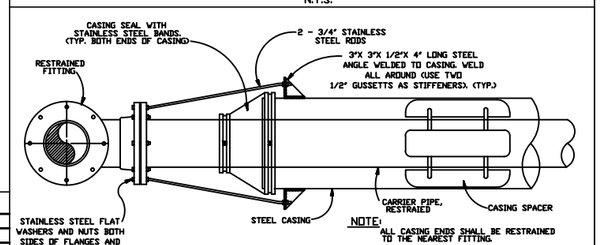
BOLLARDS FOR FIRE HYDRANTS
TO PROTECT FROM TRAFFIC
N.T.S.



VALVE BOX DETAIL (NON TRAFFIC AREA)
N.T.S.

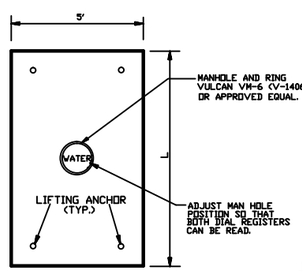


TYPICAL FIRE HYDRANT AND VALVE LOCATIONS AT INTERSECTIONS
N.T.S.

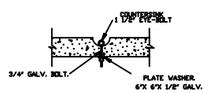


NOTE:
ALL CASING ENDS SHALL BE RESTRAINED TO THE NEAREST FITTING.

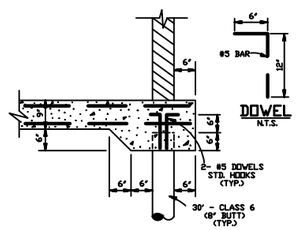
CASING RESTRAINT DETAIL
N.T.S.



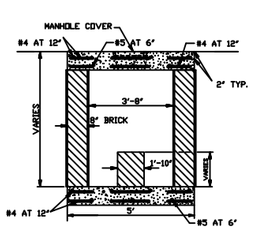
TOP VIEW
N.T.S.



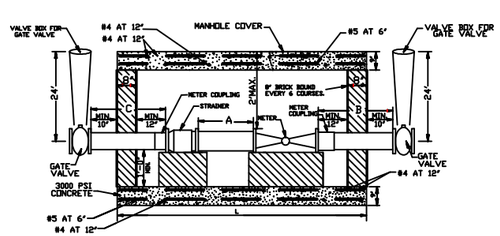
LIFT-RING DETAIL FOR EYE-HOOKS
N.T.S.



CORNER DETAIL WHERE
PILE REQUIRED
N.T.S.



FRONT VIEW
N.T.S.



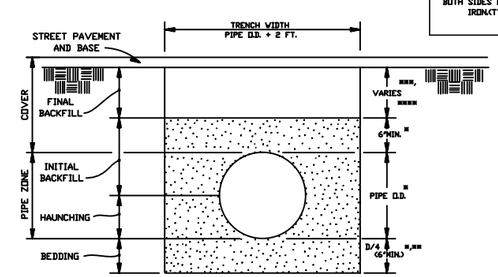
SIDE VIEW
N.T.S.

BRICK METER BOX FOR 4" AND LARGER METERS

PRECAST METER BOX OPTION SECIFICATIONS:

- SELF-CONSOLIDATING CONCRETE CONTAINING ADMIXTURES MEETING ASTM C494 TYPE A TO ENSURE UNIFORM SUSPENSION OF AGGREGATES THROUGHOUT.
- CONCRETE STRENGTH - 5,000 PSI (MIN.) @28 DAYS.
- REINFORCING STEEL: #4,5, AND 6 BAR PER ASTM A-615, GRADE 60.
- ASTM-A48 C-35 H-20/AASHTO M-306.
- LIFTING ANCHOR BY A.L.PATTERSON, INC. MODEL#LUA64G (OR APPROVED EQUAL) WITH MINIMUM SAFE WORKING LOAD OF 4,460 LBS PER ANCHOR.
- SHOP DRAWINGS MUST BE SUBMITTED TO JEFFERSON PARISH FOR APPROVAL.

Meter Size	Approximate Meter Length (In.)	Approximate Strainer Length (In.)	Min. A (In.)	Min. B (In.)	Min. C (In.)	Min. L (In.)	Min. L (Ft. - In.)
4"	20	20	20	30	30	98	8' - 2"
6"	24	24	30	30	30	116	9' - 8"
8"	30	30	40	40	30	143	11' - 11"



WATER AND SEWER FORCE MAIN STANDARD TRENCH DETAIL
FOR D.I., PVC-C900, PVC-C905 AND HDPE(MIN.THICKNESS, DR.17) PIPES
N.T.S.

NOTES:
* COMPACTED SAND, ASTM 2321 CLASS II (SW OR SP) MIN. DENSITY 90% STANDARD PROCTOR (ASTM D698) 6" MAX. LAYERS.
** PROVIDE BELL HOLES AT EACH JOINT.
*** SELECT EXCAVATED MATERIAL FREE OF STUMPS, DEBRIS AND VOIDS (CANAL BANKS ONLY).
**** RIVER SAND WITHIN THE STREETS RIGHT-OF-WAY MIN. DESITY 95% STANDARD PROCTOR (ASTM D698)

NOTES:
1. WHERE GROUND WATER OR UNSTABLE TRENCH BOTTOM EXISTS, TRENCH BOTTOM SHALL BE STABILIZED (ASTM D2321) TO PROVIDE A WORKING PLATFORM.
2. TRENCH DETAIL SHOWN WILL BE MIN. REQUIREMENTS TO SAFEGUARD THE INTEGRITY OF THE WATER LINE INSTALLATION AT HEREIN-SPECIFIED DEPTHS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

MIN. COVER	PIPE SIZE (IN.)
3 FT.	8-10
4 FT.	>,12

LEGEND:

EXISTING	PROPOSED	DESCRIPTION
		TEE, VALVE AND FIRE HYDRANT ASSEMBLY. (FLANGED OR RESTRAINED MECHANICAL JOINT)
		GATE VALVE.
		BUTTERFLY VALVE.
		CROSS.
		TEE.
		TAPPING SLEEVE AND VALVE.
		REDUCER.
		BEND

ORIGINAL
05/21/96

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE
WATER AND SEWER FORCE MAIN
STANDARD DETAILS

REVISED BY	J.C.						
DATE	03/07/12						
REVISED BY	J.C.	DRAWN BY	H.J.W.	DATE	05/21/96	REVISED BY	H.J.W.
DATE	01-08-15	REVISED BY	P.D.	DATE	02/09/04	DATE	02/20/03
REVISED BY	----	DWF TO AUTOCAD-LT	H.J.W.	DATE	02/11/04		
DATE	----	REVISED BY	J.L.	DATE	03/12/07	CHECKED BY	R.M.
REVISED BY	----	DATE	08/24/09				
DATE	----	REVISED BY	CHS	DATE	01/30/09	REVISED BY	CHS
		DATE	08/24/09				
XREF	AUTOCAD 2000/LT. 2000	VER	WATER1(2000).DWG				
FILE NUMBER	1746D						

SHEET NO. 1 OF 1