

15" LIFTING HOOK TYP. 4 REQ.--30'X 48'HINGED DOUBLE LID, NEENAH R-6663'NH, FRAME TO BE CAST IRON LID TO BE ALUMINUM OFF-STREET, ROOF SLAB PLAN, ONE PIECE LID TO BE CAST IRON IN TRAFFIC.

NOTE: FILL BLOCKS WITH GROUT TO TOP OF VAULT

-#7 @ 12°CTR. EACH WAY C.T. EPOXY NO. 300M OR EQUAL, READING -ADAPTER 10 MILS. -#5 @ 8' FLG. X MJ 4 PRESSURE SUSTAINING VALVE FLANGED -4" METER 4' GATE VALVE FLG. NRS W/HAND WHEEL STRAINER BEARING BEARING CONC. BLK .-VALVE 12" MAX. PVC WATER STOP - . - -2 X 4 KEY, TYPICAL */*////// 8. />

UNDISTURBED EARTH OR

COMPACTED MATERIAL

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2 EA. "7 X 72' L., 1 BAR PER SIDE ALONG 48' SIDES 4 EA. "7 X 54' L., 2 BARS PER SIDE ALONG 30' SIDES-

SECTION A-A CONC. BLK. WALLS, REINF. CONC. TOP AND BASE OFF-STREET VALVE VAULT TOP (NOT FOR TRAFFIC LOADS)

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH FITTINGS COMPATIBLE WITH THE TYPE OF PIPE FURNISHED.
- 2. WHERE COMPOUND METER IS FURNISHED WITH A TEST PLUG, IT WILL NOT BE NECESSARY TO INSTALL A TEST TEE. MATERIAL SUBMITTALS SHALL INDICATE THE PRESENCE OF A TEST PLUG.
- 3. BOLTS AND NUTS SHALL CONFORM TO ASTM A-307 GR. B, AND ASTM A-563 GR. A RESPECTIVELY. STRUCTURAL STEEL SHALL
- 4. BYPASS VALVE SHALL BE SEALED SHUT BY CITY OF TULSA USING A WATER METER SEAL WIRE.
- 5. TEST TEE SHALL CONSIST OF 1-4" X 4" X 4" TEE, FLG. 1-4" X 4" NIPPLE FLG ON ONE END.
- THREADED ON OPPOSITE END WITH SCREW CAP 6. NOTICE SHALL BE GIVEN TO THE ENGINEERING SERVICES DEPT. 48 HOURS IN ADVANCE SO THAT A REPRESENTATIVE OF THE DEPT. MAY WITNESS THE POURING OF THE VAULT AND INSPECT THE MATERIALS, A REPORT SHALL BE FURNISHED ON THE 7 DAY AND 28 DAY STRENGTH OF THE CONCRETE WHICH SHALL BE AT LEAST 4000 PSI. REINFORCING STEEL SHALL BE GR. 60.
- 7. WHERE RESTRAINED JOINTS ARE REQUIRED, THEY SHALL BE EBBA MEGALUG SERIES 1100 OR EQUAL
- 8. METER AND FITTINGS FROM VALVE TO VALVE SHALL BE ASSEMBLED IN A SHOP ENVIRONMENT APPROVED BY A REPRESENTATIVE OF ENGINEERING SERVICES DEPARTMENT. METER AND FITTINGS SHALL BE DELIVERED TO THE JOB SITE WITH THE VALVES CLOSED IN ORDER TO PROTECT THE METER, STRAINER AND PRESSURE SUSTAINING VALVE.
- 9. USE DUCTILE IRON PIPING AND DI/CI FITTINGS FROM THE MAIN LINE TAPPING SLEEVE TO DOWNSTREAM FROM THE METER CHECK VALVE AT THE CONNECTING SLEEVE. PIPE SHALL BE WRAPPED WITH POLYETHYLENE FILM AND TAPED.

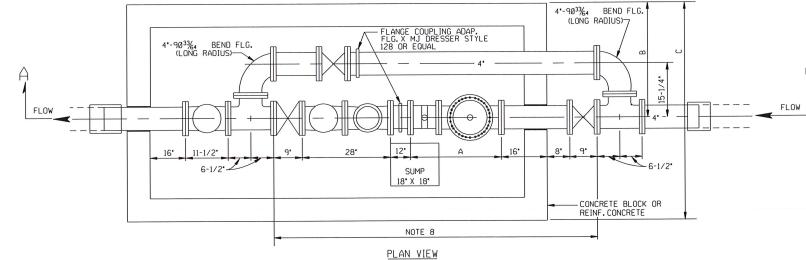
- 10. THE PRESSURE SUSTAINING VALVE SHALL BE A 4-INCH CLA-VAL, MODEL 50-01, CLASS 125, OR EQUAL. THE PRESSURE SUSTAINING VALVE SHALL BE FACTORY SET AND CERTIFIED AT 45 PSI. THE CONTRACTOR SHALL MEET WITH THE PRESSURE SUSTAINING VALVE MANUFACTURER REPRESENTATIVE ON THE JOB SITE TO MAKE FINAL ADJUSTMENTS ON THE PRESSURE SUSTAINING VALVE AT STARTUP. COST SHALL BE INCLUDED IN COST OF PRESSURE SUSTAINING VALVE. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 11. CHAMFER EXPOSED CORNERS. EDGE AROUND OPENINGS IN TOP.
- 12. BEARING PADS HAVE NO REBAR
- 13. NEW FLANGED PRESSURE SUSTAINING VALVES SHALL HAVE A VALVE OPERATING RANGE OF 30 - 300 PSI, TEMPERATURE RANGE TO 180 DEGREES F, SEPARATE OPENING AND CLOSING SPEED CONTROL AND SHALL ALSO CARRY THE FOLLOWING ADDITIONAL FEATURES. CLA VAI AND OCV DESIGNATORS FOR THE ADDITIONAL FEATURES FOLLOWS:

	CLA	OCV
CAST IRON BODY WITH STAINLESS STEEL TRIM	CS	CIST
VALVE POSITION INDICATOR	XIOI	W/ INDICATOR
EXTERNAL AND INTERNAL EPOXY COATING	KC	STANDARD
STAINLESS STEEL SLEEVE STEM	KG	STANDARD

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14. VAULT ASSEMBLY SHALL INCLUDE ALL MATERIALS AND LABOR FOR AN INSTALLED AUTOMATED METER READING (AMR) DEVICE PER CONSTRUCTION SPECIFICATIONS DIVISION V. AMR DEVICE SHALL INCLUDE MIU ANTENNA PENETRATING THRU HATCH, MIU, POTTED REGISTER, REQUIRED CABLE, AND GEL-CAP (IF REQUIRED). AMR INSTALLATION SHALL BE APPROVED AND TESTED BY ENGINEER OR ENGINEER'S DESIGNEE.



NOTE: CONCRETE BLOCK VAULT NOT

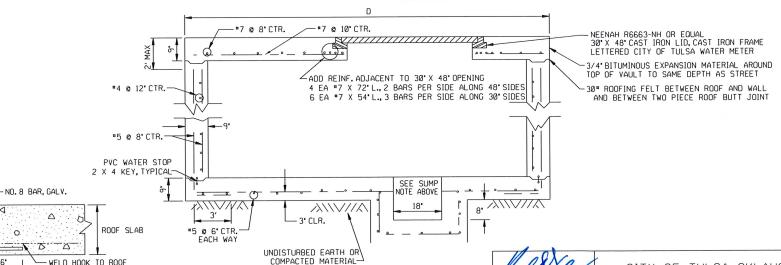
PERMITTED FOR DEPTHS GREATER THAN 6'

**∀**REMOTE

-3° CLR.

W2-6"X 6" WWF

POUR SUMP MONOLITHIC WITH FLOOR, OTHERWISE USE WATER STOP



METER	А	В	С	D	REMARKS
4º TURBO METER	21-1/2"	3′ - 3"	5′ - 6'	10' - 7"	
4' TURBO METER FIRE SERVICE	35-1/16"	3' - 3"	5′ - 6'	11' - 11"	
4º COMPOUND METER	33"	3' - Ø <b>'</b>	5' - 3'	10' - 6"	
4' NEPTUNE PROTECTUS III FIRE FLOW METER W/ STRAINER (FS)	33"	3' - 3"	6' - 0'	11' - 7"	WITHOUT TEE
4º INVENSYS FIRELINE T.M.	51-7/8"	3' - 3"	6' - Ø <b>'</b>	13' - 1"	

LIFTING HOOK ALTERNATE VALVE VAULT LIFTING HOOK DETAIL FOR TRAFFIC LOADS NOTE: IN SIDEWALKS, COVER HOOK OPENING REINFORCED CONCRETE WITH A STEEL PLATE, SECURE WITH SCREWS AND EXPANSION SLEEVE ANCHORS.

─ WELD HOOK TO ROOF

-3" X 6" X 5" DEEP RECESS

SLAB REINFORCING

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT BY DATE REVISION

4" METER WITH PRESSURE SUSTAINING VALVE ASSEMBLY AND VAULT

NEENAH R6663-NH OR EQUAL, 30°X 48° ALUMINUM LID, CAST IRON FRAME, LETTERED CITY OF TULSA WATER METER

WATERPROOF COATING, KOPPERS

4 GATE VALVE FLG. NRS, C.I. VALVE BOX

4" SOLID SLEEVE

WALL SLEEVE, WATER STOP, AND COLLAR

WALL SLEEVE SHALL BE CAST WITH WALL.

W/THUNDERLINE 'LINK-SEAL' OR EQUAL.

30\* ROOFING FELT BETWEEN ROOF AND WALL AND BETWEEN TWO PIECE ROOF BUTT JOINT

VARIARI E

APPROX. 1 FT.)

DATE: MARCH 2022