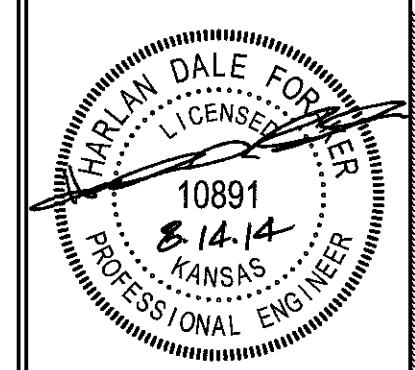


# FIRE HYDRANT PRIVATE PROJECT PLANS FOR FUNSTON ADDITION WICHITA, SEDGWICK COUNTY, KANSAS 1833 PPW (O.C.A. NO. 607853) GARY JANZEN, P.E., CITY ENGINEER JULY 2014

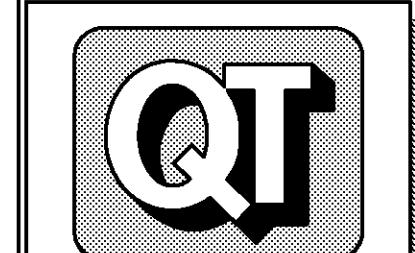
AS-BUILT PLANS  
CONTRACTOR: NOWAK CONSTRUCTION  
SUPERINTENDENT: TRENT WINNETT  
FOREMAN: JIM HEIMAN  
INSPECTOR: SCHWAB-EATON, P.A., CALEB WILSON  
PDF BY: CFW 3/13/2015



PROJECT NO.:  
**CEED**  
CERTIFIED ENGINEERING DESIGN, P.A.

1935 W. MAPLE STREET  
WICHITA, KANSAS 67213  
PH (316)262-8608  
FAX (316)262-1669

**QuikTrip No. 0356**  
SWC 47TH & HYDRAULIC  
WICHITA, SEDGWICK, KS



© COPYRIGHT QUIKTRIP CORPORATION 2011  
ANY UNAUTHORIZED USE, REPRODUCTION,  
PUBLICATION, DISTRIBUTION, OR SALE IN  
WHOLE OR IN PART, IS STRICTLY FORBIDDEN.

PROTOTYPE: P-78 (02/01/14)  
DIVISION: 03  
VERSION: 001  
DESIGNED BY:  
DRAWN BY: KSR  
REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:  
COVER SHEET

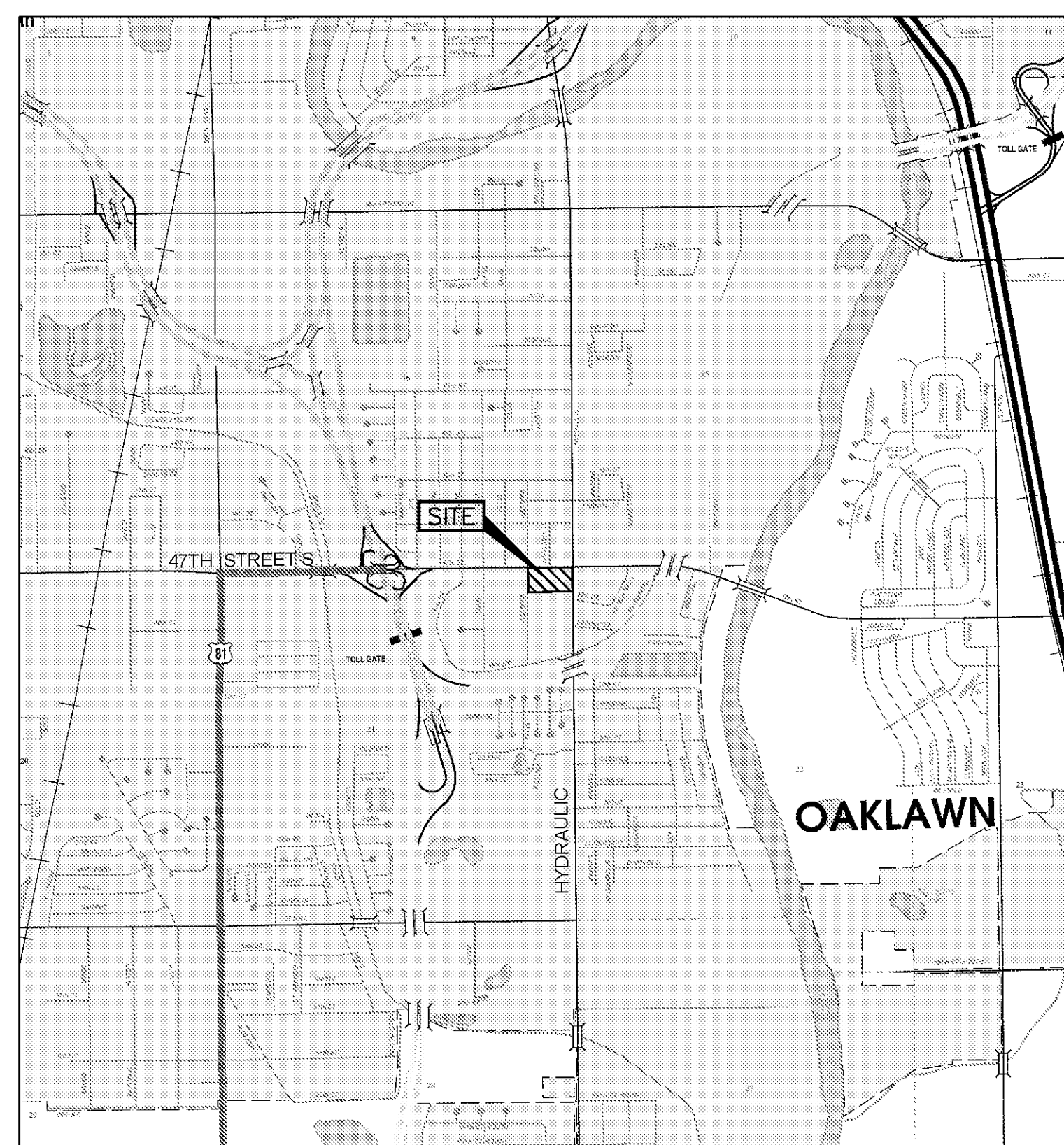
SHEET NUMBER:  
**1**

### GENERAL NOTES:

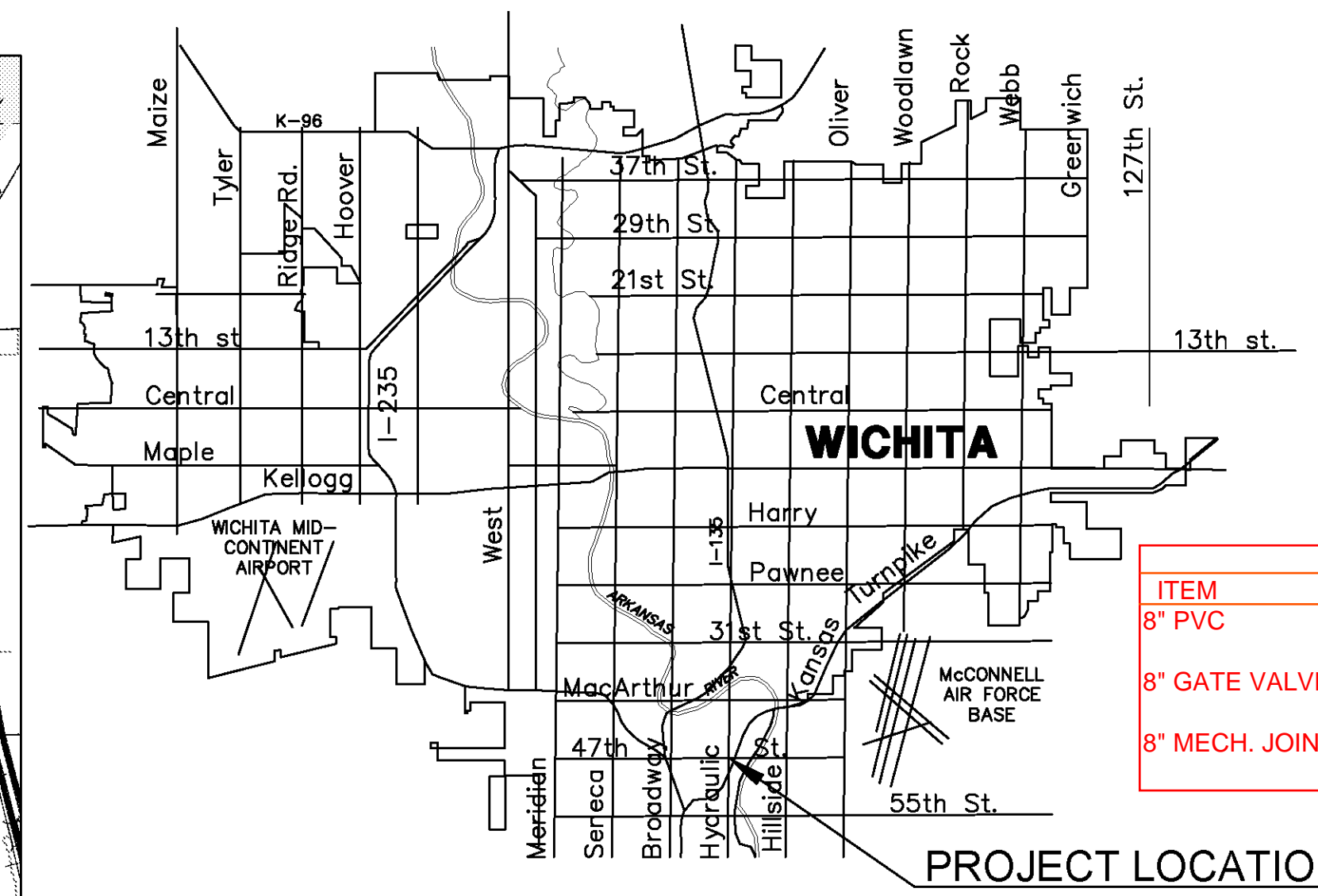
1. WATERLINES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS.
2. AT LEAST 24 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
3. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

COX COMMUNICATIONS	262-4270 or 263-2061
KANSAS GAS SERVICE	1-888-462-4950
WESTAR	1-800-383-1183
SBC	1-800-870-8390
AQUILA	1-800-303-0752
CITY OF WICHITA SEWER DEPARTMENT	268-4555

4. ANY EXCESS EXCAVATION WHICH IS TO BE WASTED, SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION, AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE PROVISIONS OF THE KANSAS SOLID WASTE MANAGEMENT STATUTES AND REGULATIONS (KSA 85-3401, KAR 28-29-1 ET SEQ.)
5. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR WILL DELIVER REMOVED FIRE HYDRANTS TO WATER DISTRIBUTION, 1703 SIM PARK DRIVE.
6. CONTRACTOR TO MAINTAIN TRAFFIC USING BARRICADES AND FLAGPERSONS WHILE WORKING WITHIN STREET RIGHT OF WAY.
7. ALL AREAS DISTURBED BY CONSTRUCTION INCLUDING STAGING AREAS, SHALL BE REPLANTED WITH GRASS SEED AT THE APPROPRIATE RATES APPROVED BY THE ENGINEER
8. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST AVAILABLE INFORMATION. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLE MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES AND CABLES ANY UTILITIES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING EXISTING PROPERTY IRONS AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS OR RIGHT-OF-WAY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
10. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE, AND CLASS OF EXISTING WATERLINES PRIOR TO CONSTRUCTION. EXISTING WATERLINE LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS REQUIRED AND APPROVED BY THE ENGINEER. PROVISIONS FOR AND INSTALLATION OF PIPE ADAPTORS, SHORT SECTIONS OF PIPE, AND COUPLERS SHALL BE SUBSIDIARY TO OTHER PAY ITEMS OF WORK.
11. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK PERFORMED WITHOUT INSPECTION IS SUBJECT TO BE UNCOVERED FOR INSPECTION.
12. OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
13. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENNANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
14. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
15. ALL WATERLINES SHALL HAVE A MINIMUM DEPTH OF BURY OF 42 INCHES. THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN BY THE PLANS. THE COST FOR ANY NECESSARY TREE TRIMMING, CLEARING AND/OR GRUBBING SHALL BE INCLUDED IN THE PRICE BID FOR THE INSTALLED WATER MAIN PIPE. TREES AND SHRUBS IN PUBLIC RIGHT OF WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE PRICE BID FOR THE INSTALLED WATER PIPE. TREES AND SHRUBS NOT IN DIRECT CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
16. INSPECTOR WILL NOTE ON AS BUILT PLAN LOCATIONS OF ALL FITTINGS AND VALVES. LOCATIONS WILL BE MEASURED FROM PROPERTY LINES, CURB LINES, AND/OR CENTER LINES. HYDRANT BRANCH LENGTH AND HYDRANT BURY LINE ELEVATION ARE TO MATCH FIELD CONDITIONS AND BE APPROVED BY THE ENGINEER.



**Vicinity Map**  
Not to Scale



**LOCATION MAP**

**PROJECT LOCATED IN THE NE 1/4,  
NE 1/4, SEC 21, T28S, R1E,  
WICHITA, SEDGWICK COUNTY, KANSAS**

### BENCHMARKS:

BM - CHISELED SQUARE CUT TOP OF CURB SOUTHWEST CORNER OF 47TH STREET AND VICTORIA STREET.  
ELEV.=1272.28 N.A.V.D. 88



### PPW SHEET INDEX

Sheet Number	Sheet Title
1	COVER SHEET
2	SITE PLAN
3	PLAN & PROFILE
4	DETAILS

SUMMARY TABLE			
ITEM	TYPE	MANUFACTURER	QUANTITY
8" PVC	C900 RJB	CERTA-LOK	68 L.F.
8" GATE VALVE		CLOW	1
8" MECH. JOINT	DUCT. IRON	SIGMA	1

APPROVED AS NOTED  
BY CITY ENGINEER OF WICHITA  
& BY WICHITA FIRE DEPARTMENT

Water Mains (Engineering) *Rebecca Duff* 8/22/14  
Water Mains (Water) *Andy Jolly* 8/22/14  
Fire Prot. Line *AW* 8-22-14

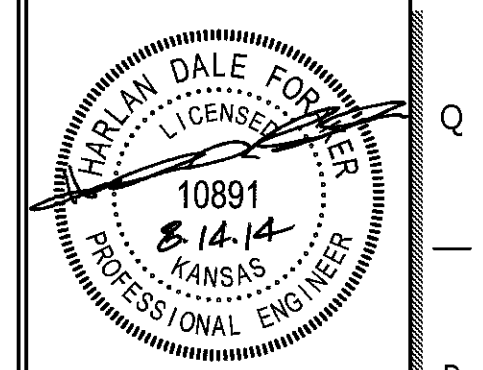
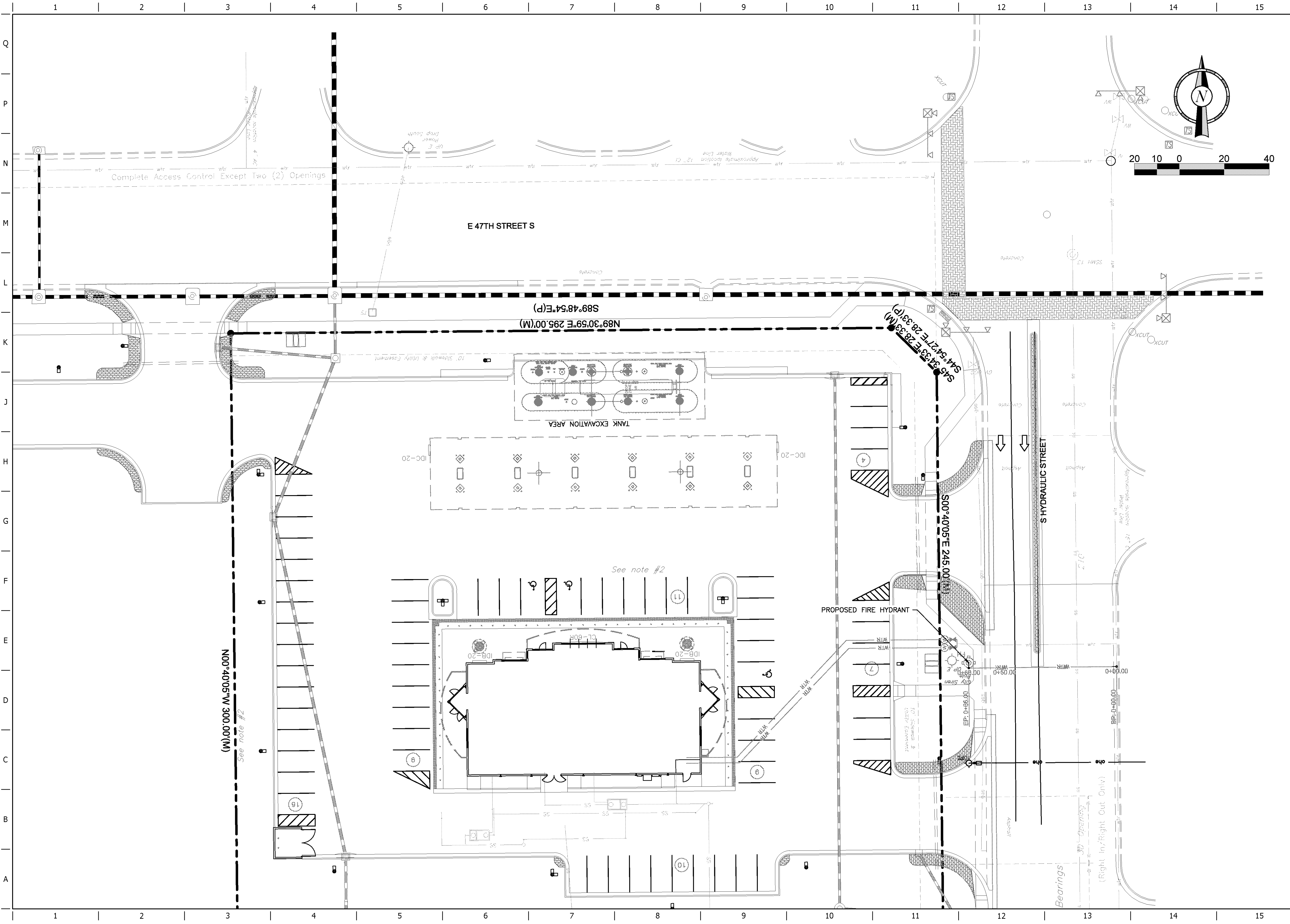
### NOTE TO CONTRACTORS

**PUBLIC PROPERTY:**  
Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer licensed in the State of Kansas. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

**PRIVATE PROPERTY:**  
Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All materials and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department.  
Inspection of the fire protection line is to be provided by the City of Wichita Fire Department and by a licensed Consulting Engineering Firm under contract with the Owner/Developer.  
The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

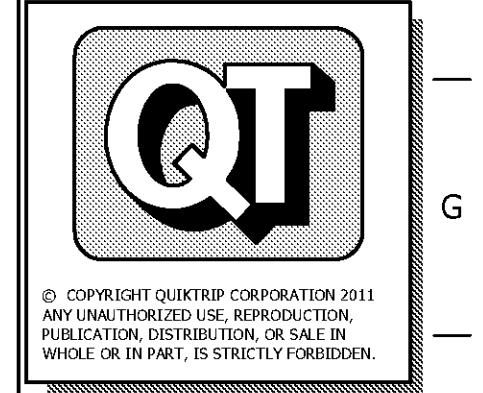
FILE LOCATION: \\s:\drawing\files\project\awg 9-16-13\QT #0356R\DWG\03-0356 PPW.dwg TAB NAME: PPW Cover USER: gjanzen DATE: 8/27/2014 2:25 PM PLOTTED: 8/27/2014 2:26 PM

FILE LOCATION: \\Drawing Files\Project AMG 9-16-13\13\QT #0356R\DWG\03-0356 PPW.dwg TAB NAME: PPW Site USER: qtopfich SWEDS/20/2014 1:59 PM PLOTTED: 9/20/2014 1:59 PM



PROJECT NO.:  
**CED**  
 CERTIFIED ENGINEERING DESIGN, P.A.  
 1935 W. MAPLE STREET  
 WICHITA, KANSAS 67213  
 PH (316)262-8808  
 FAX (316)262-1669

**QuikTrip No. 0356**  
 SWC 47TH & HYDRAULIC  
 WICHITA, SEDGWICK, KS



© COPYRIGHT QUIKTRIP CORPORATION 2011  
 ANY UNAUTHORIZED USE, REPRODUCTION,  
 PUBLICATION, DISTRIBUTION, OR SALE IN  
 WHOLE OR IN PART, IS STRICTLY FORBIDDEN.

PROTOTYPE: P-78 (02/01/14)  
 DIVISION: 03  
 VERSION: 001  
 DESIGNED BY:  
 DRAWN BY: KSR  
 REVIEWED BY:

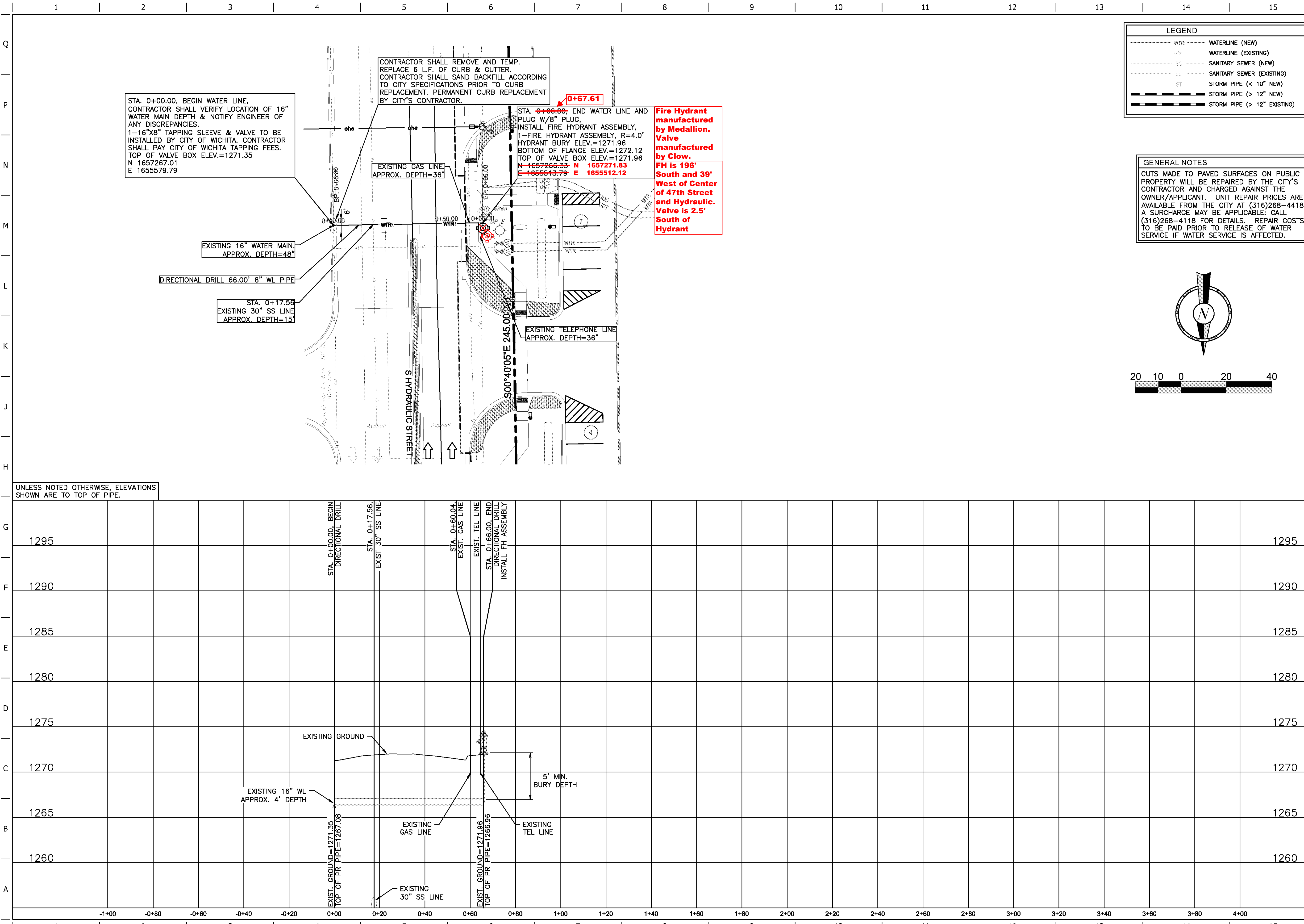
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 04/22/14

SHEET TITLE:  
 SITE PLAN

SHEET NUMBER:  
 2

FILE LOCATION: \\Drawing Files\Project AMG 9-16-13\01 #0356R.DWG\03-0356 PPW.dwg TAB NAME: PPW P&P USER: rgoodeich SAVEd: 8/20/2014 1:58 PM PLOTTED: 8/20/2014 1:59 PM



STA. 0+00.00, BEGIN WATER LINE. CONTRACTOR SHALL VERIFY LOCATION OF 16" WATER MAIN DEPTH & NOTIFY ENGINEER OF ANY DISCREPANCIES. 1-16"X8" TAPPING SLEEVE & VALVE TO BE INSTALLED BY CITY OF WICHITA. CONTRACTOR SHALL PAY CITY OF WICHITA TAPPING FEES. TOP OF VALVE BOX ELEV.=1271.35  
N 1657267.01  
E 1655579.79

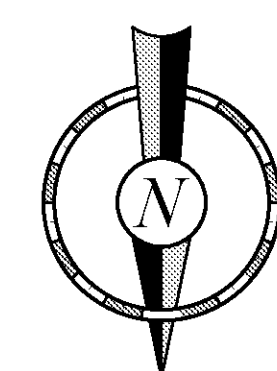
CONTRACTOR SHALL REMOVE AND TEMP. REPLACE 6 L.F. OF CURB & GUTTER. CONTRACTOR SHALL SAND BACKFILL ACCORDING TO CITY SPECIFICATIONS PRIOR TO CURB REPLACEMENT. PERMANENT CURB REPLACEMENT BY CITY'S CONTRACTOR.

STA. 0+66.00, END WATER LINE AND PLUG W/8" PLUG. INSTALL FIRE HYDRANT ASSEMBLY, 1-FIRE HYDRANT ASSEMBLY, R=4.0' HYDRANT BURY ELEV.=1271.96 BOTTOM OF FLANGE ELEV.=1272.12 TOP OF VALVE BOX ELEV.=1271.96  
N 1657266.33 N 1657271.83  
E 1655513.79 E 1655512.12

**Fire Hydrant manufactured by Medallion. Valve manufactured by Clow. FH is 196' South and 39' West of Center of 47th Street and Hydraulic. Valve is 2.5' South of Hydrant**

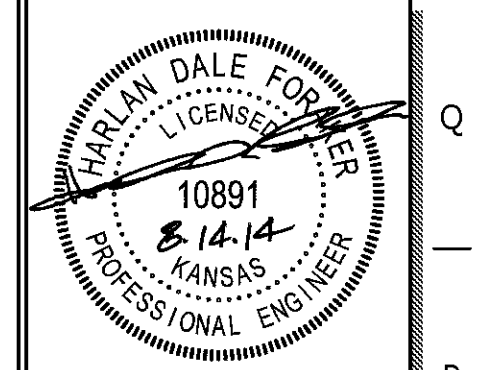
LEGEND	
---	WATERLINE (NEW)
---	WATERLINE (EXISTING)
---	SANITARY SEWER (NEW)
---	SANITARY SEWER (EXISTING)
---	STORM PIPE (< 12" NEW)
---	STORM PIPE (> 12" NEW)
---	STORM PIPE (> 12" EXISTING)

**GENERAL NOTES**  
CUTS MADE TO PAVED SURFACES ON PUBLIC PROPERTY WILL BE REPAIRED BY THE CITY'S CONTRACTOR AND CHARGED AGAINST THE OWNER/APPLICANT. UNIT REPAIR PRICES ARE AVAILABLE FROM THE CITY AT (316)268-4418. A SURCHARGE MAY BE APPLICABLE. CALL (316)268-4118 FOR DETAILS. REPAIR COSTS TO BE PAID PRIOR TO RELEASE OF WATER SERVICE IF WATER SERVICE IS AFFECTED.



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TO TOP OF PIPE.

STATION	DESCRIPTION	ELEVATION
1295		1295
1290		1290
1285		1285
1280		1280
1275		1275
1270	EXISTING GROUND	1270
1265	EXISTING 16" WL APPROX. 4' DEPTH	1265
1260	EXISTING 30" SS LINE	1260



PROJECT NO.:  
**CED**  
CERTIFIED ENGINEERING DESIGN, P.A.  
1935 W. MAPLE STREET  
WICHITA, KANSAS 67213  
PH (316)262-8608  
FAX (316)262-1669

**QuikTrip No. 0356**  
SWC 47TH & HYDRAULIC  
WICHITA, SEDGWICK, KS

<b>QT</b>	
© COPYRIGHT QUIKTRIP CORPORATION 2011. ANY UNAUTHORIZED USE, REPRODUCTION, PUBLICATION, DISTRIBUTION, OR SALE IN WHOLE OR IN PART, IS STRICTLY FORBIDDEN.	
PROTOTYPE:	P-78 (02/01/14)
DIVISION:	03
VERSION:	001
DESIGNED BY:	
DRAWN BY:	KSR
REVIEWED BY:	

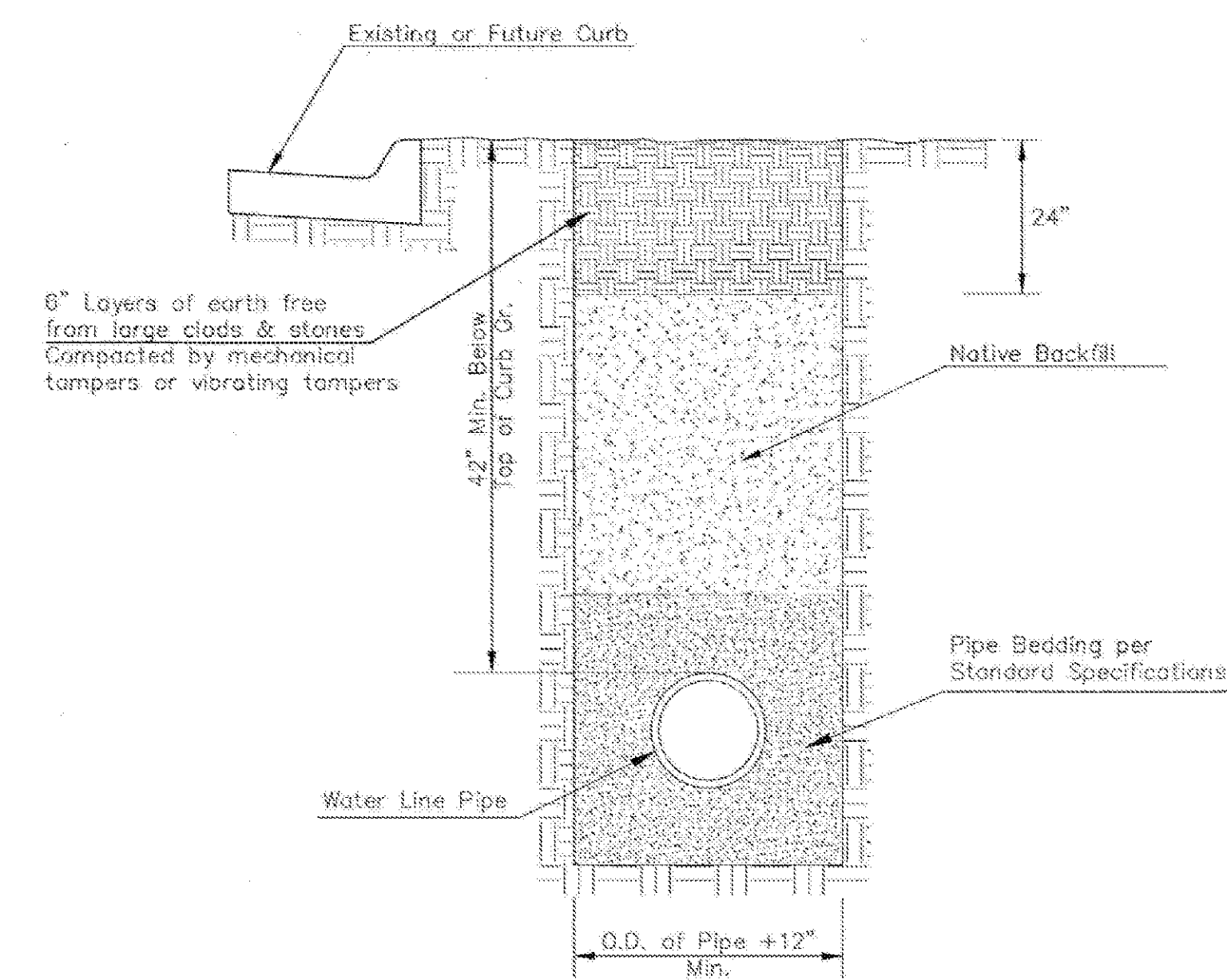
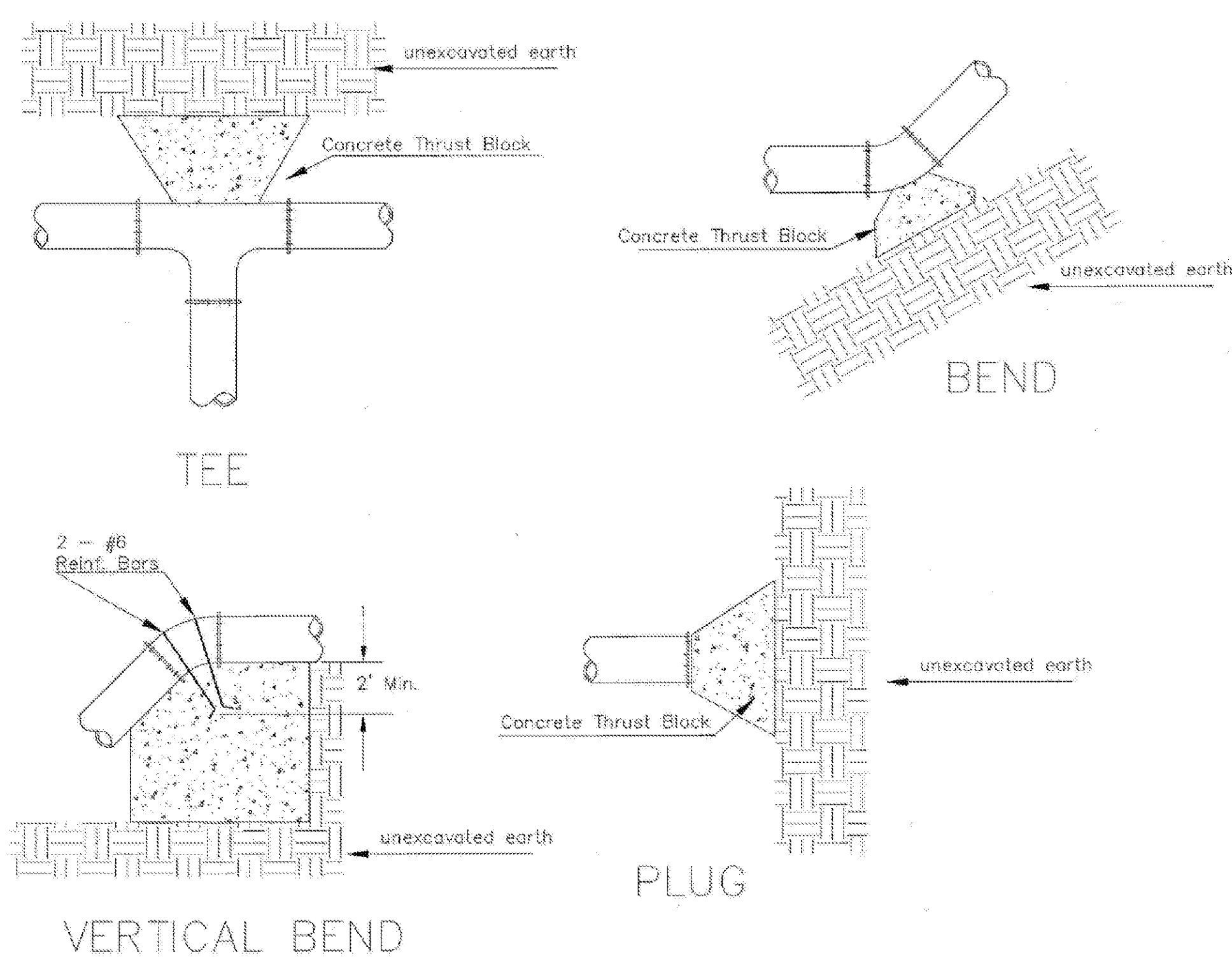
REV	DATE	DESCRIPTION

SHEET TITLE:  
PLAN & PROFILE

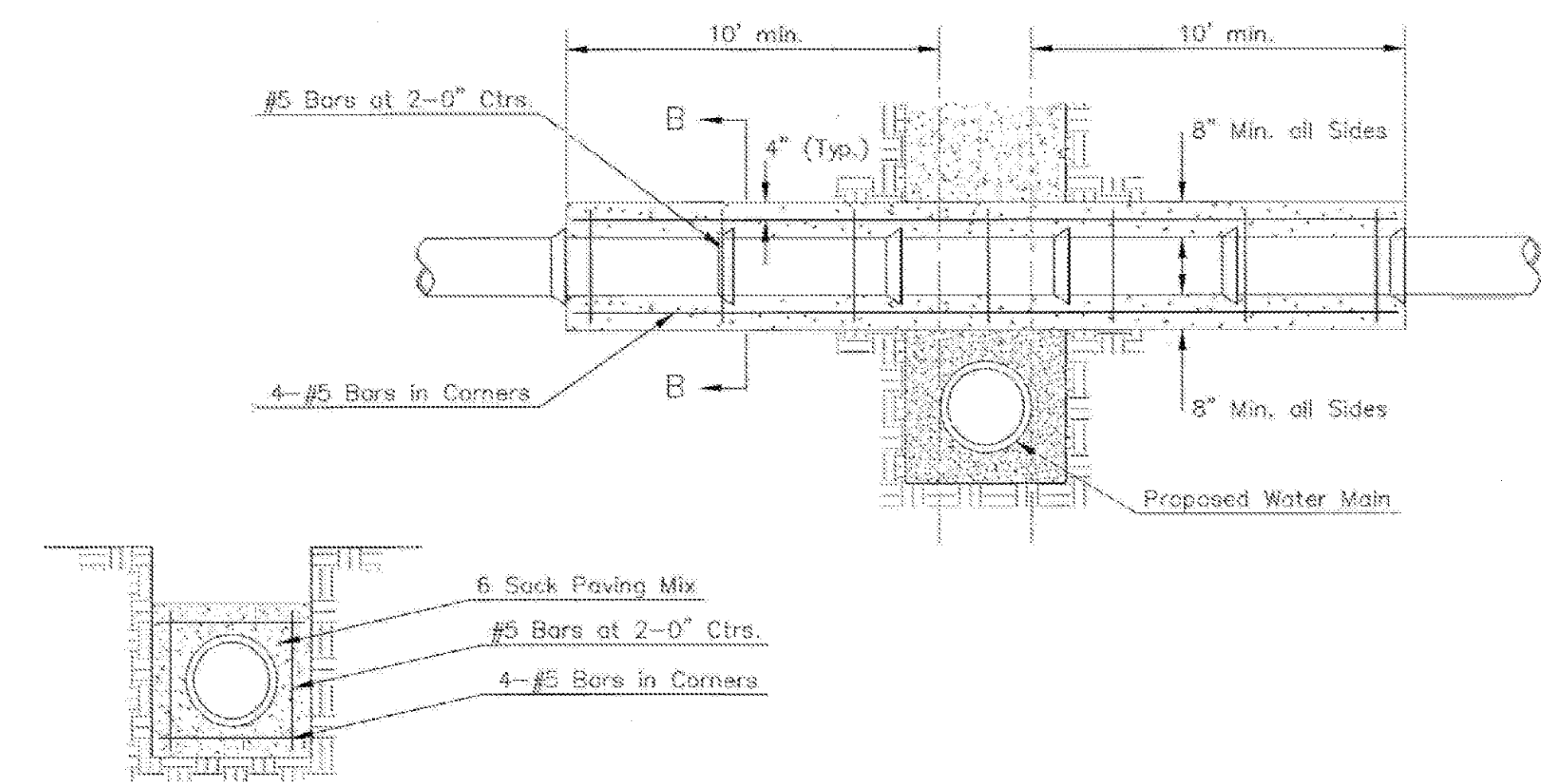
SHEET NUMBER:  
**3**

ORIGINAL ISSUE DATE: 04/22/14





TRENCH COMPACTION IN ROAD RIGHT-OF-WAY



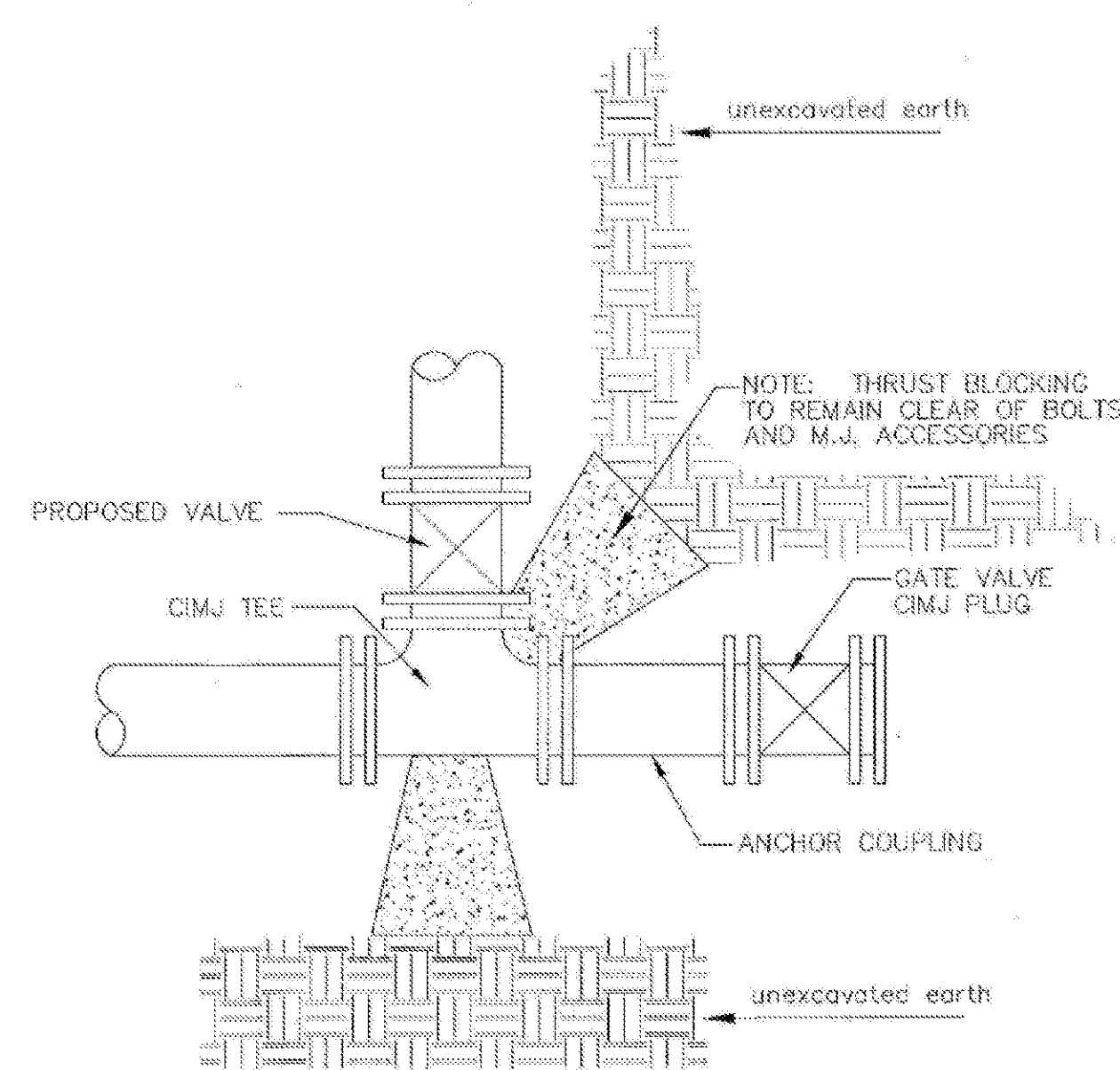
SECTION B-B

Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

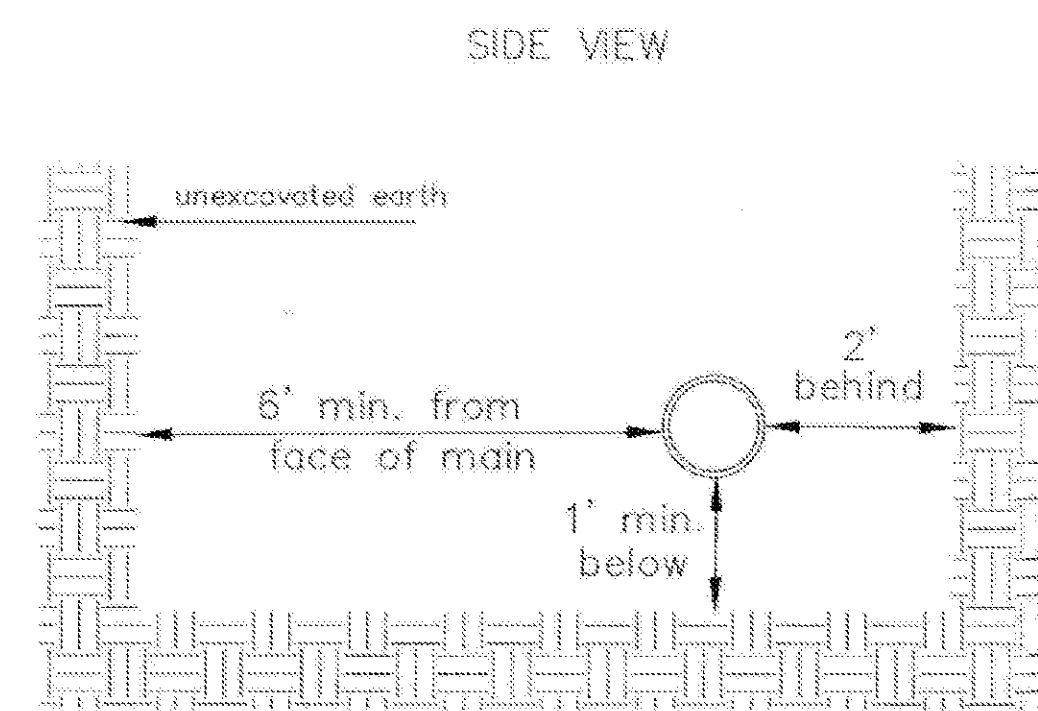
PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN <sup>2</sup> P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS



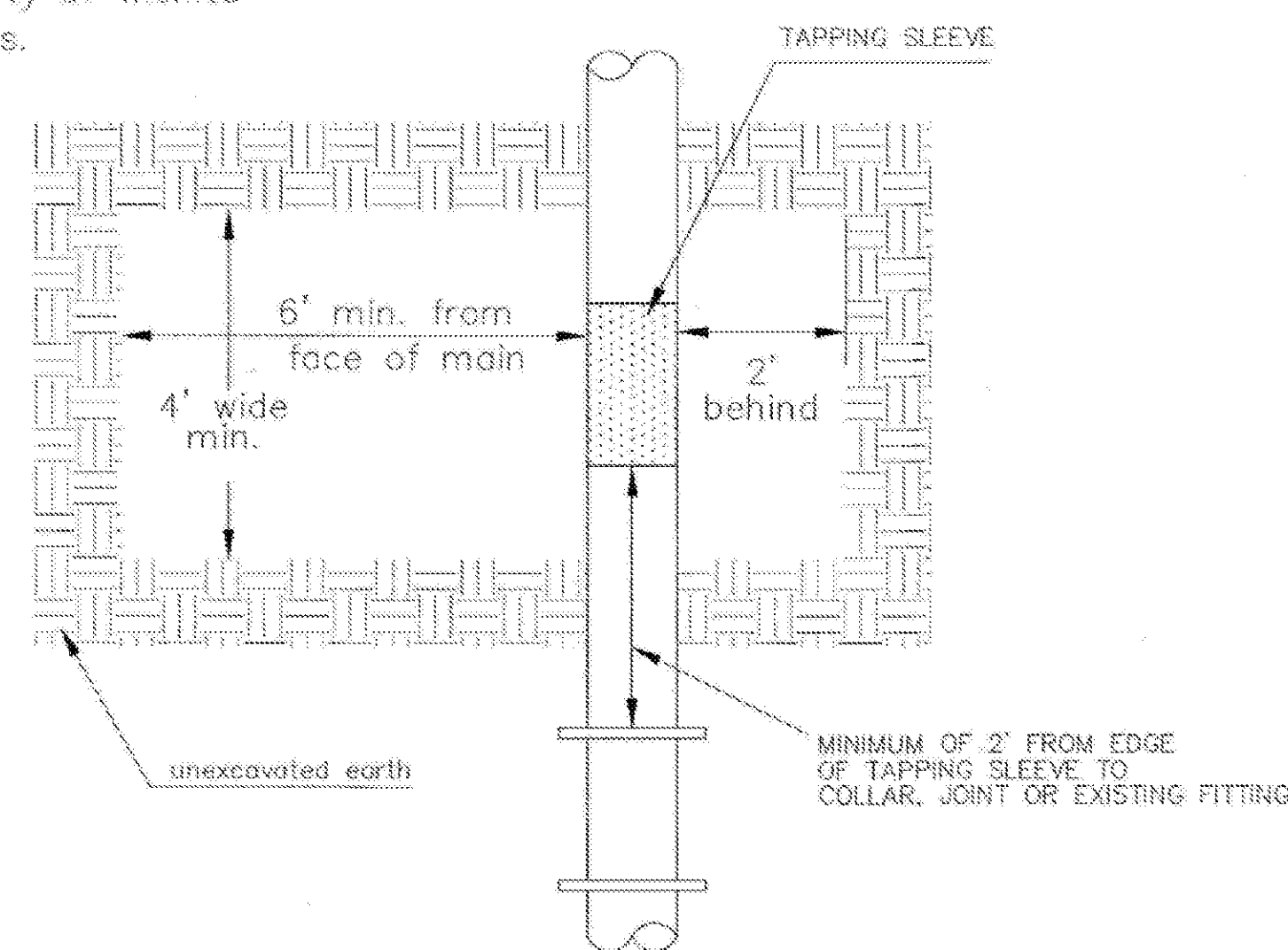
KEY BLOCK DETAIL

\* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS

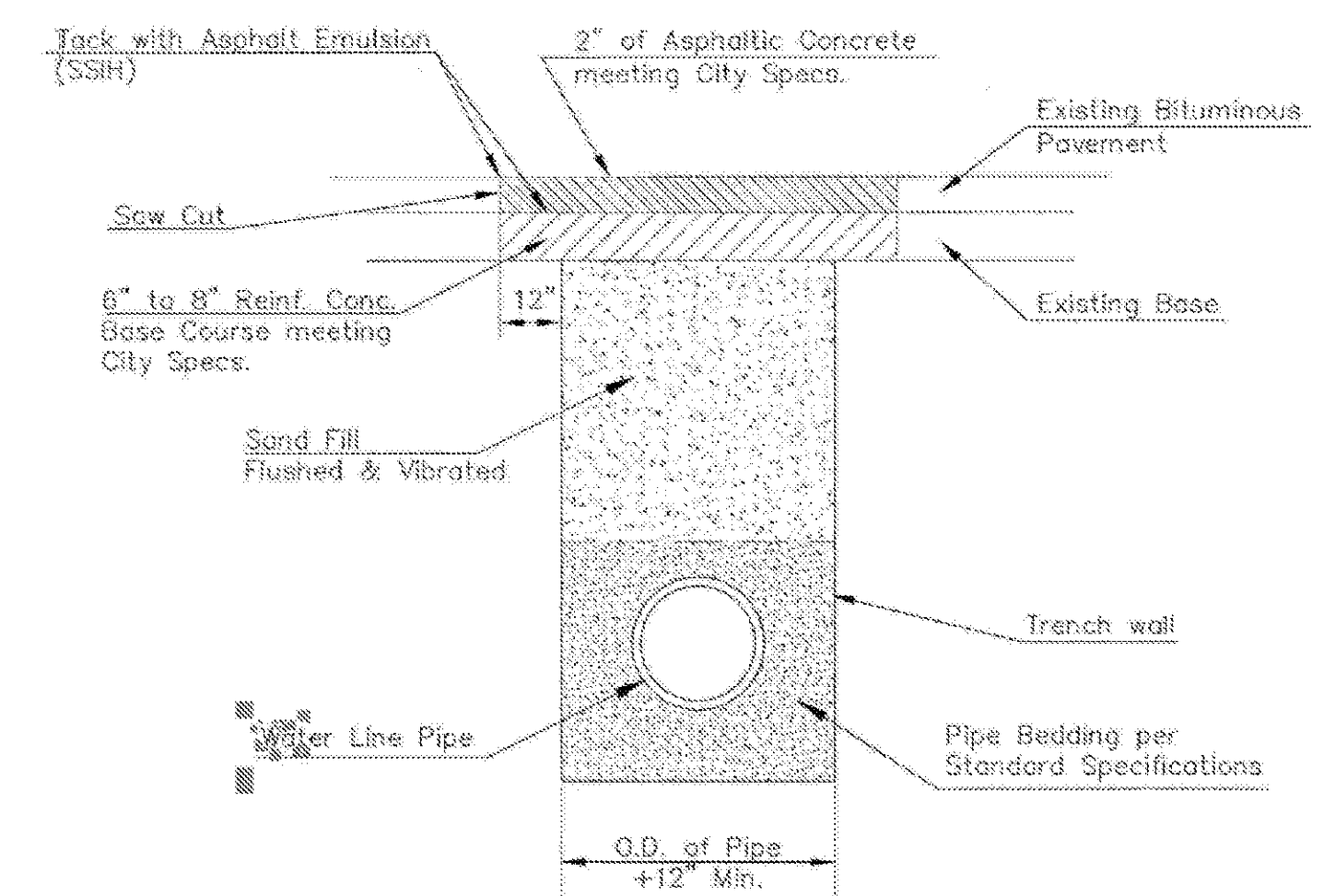


TOP VIEW

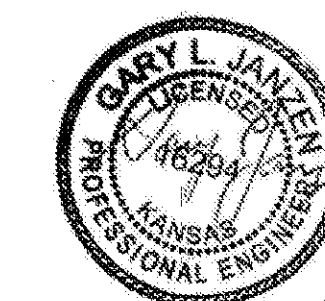
Note: When shoring is required it is to be per The City of Wichita Standard Specifications.



EXCAVATION FOR WET TAP



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



04/24/14

**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

MISCELLANEOUS WATER DETAILS		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER 1833 PPW	OCA NUMBER 607853	DATE 04/2014
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4301		SHEET <b>5 of 5</b>