

SEWER NOTES:

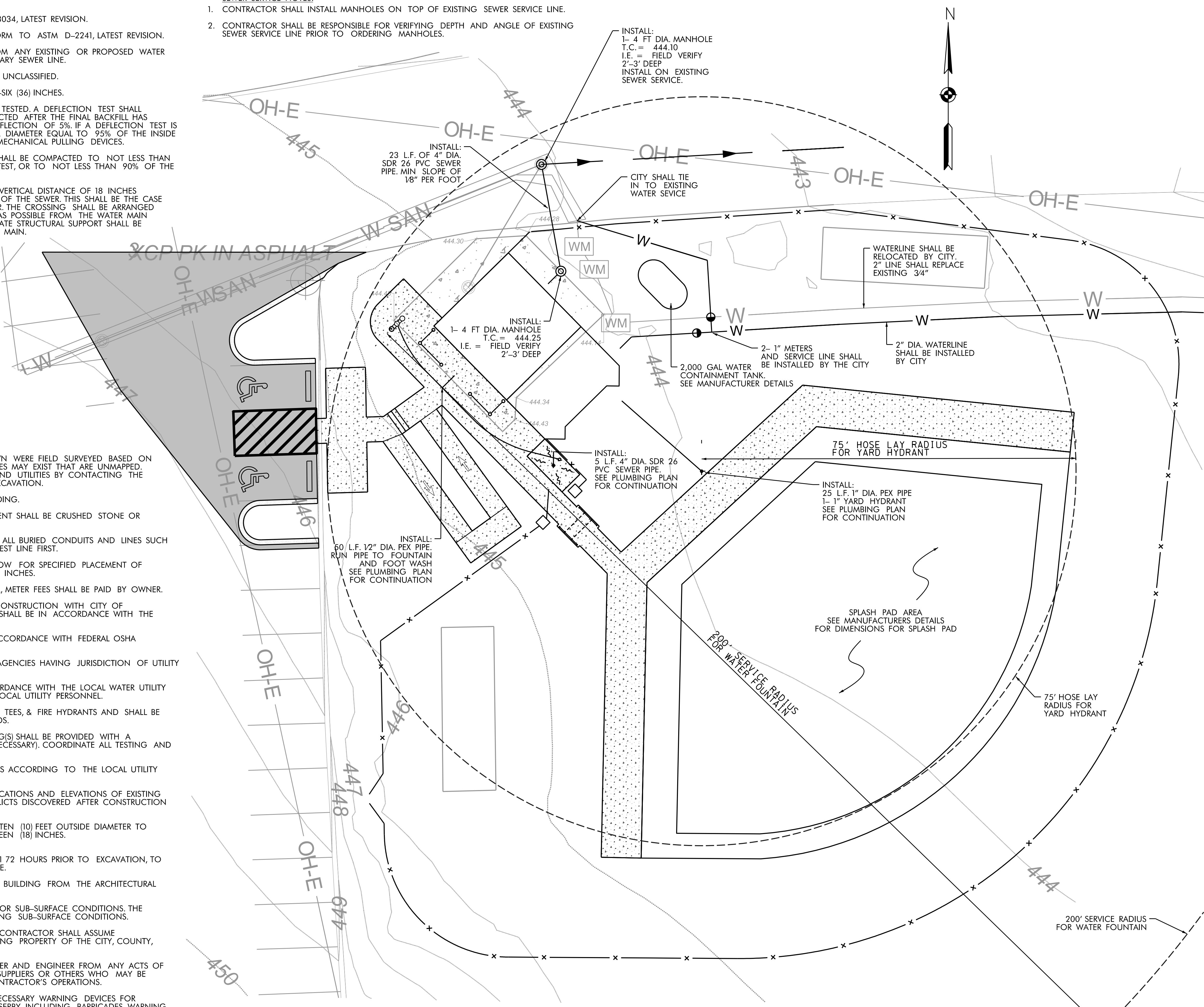
1. PVC PIPE MATERIAL AND JOINTS SHALL CONFORM TO ASTM D-3034, LATEST REVISION.
2. FLEXIBLE THERMOPLASTIC SEWER PIPE INSTALLATION SHALL CONFORM TO ASTM D-2241, LATEST REVISION.
3. ALL SEWER LINES SHALL BE LAID TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN EXCEPT WHERE THE WATER MAIN CROSSES OVER THE SANITARY SEWER LINE.
4. ALL PIPELINE TRENCHING AND STRUCTURE EXCAVATION SHALL BE UNCLASSIFIED.
5. SANITARY SEWER PIPE SHALL HAVE A MINIMUM COVER OF THIRTY-SIX (36) INCHES.
6. ALL SEWERS SHALL BE SMOKE TESTED AND/OR LOW PRESSURE AIR TESTED. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF A DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
7. SUBGRADE AND BACKFILL FOR SEWERS LOCATED IN FILL AREAS SHALL BE COMPACTED TO NOT LESS THAN 95% OF DENSITY DETERMINED FROM THE STANDARD PROCTOR TEST, OR TO NOT LESS THAN 90% OF THE DENSITY DETERMINED BY THE MODIFIED AASHTO METHOD.
8. SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

SEWER SERVICE NOTES:

1. CONTRACTOR SHALL INSTALL MANHOLES ON TOP OF EXISTING SEWER SERVICE LINE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DEPTH AND ANGLE OF EXISTING SEWER SERVICE LINE PRIOR TO ORDERING MANHOLES.

GENERAL UTILITY NOTES:

1. THE CONTRACTOR IS ADVISED THAT ALL EXISTING UTILITIES SHOWN WERE FIELD SURVEYED BASED ON LOCATIONS PROVIDED BY EACH UTILITY COMPANY. OTHER UTILITIES MAY EXIST THAT ARE UNMAPPED. THE CONTRACTOR IS ADVISED TO FIELD VERIFY ALL UNDERGROUND UTILITIES BY CONTACTING THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO EXCAVATION.
2. ALL UTILITIES TO BE CONSTRUCTED TO WITHIN 5 FEET OF BUILDING.
3. BACKFILL OF ALL TRENCHES BENEATH STRUCTURES AND/OR PAVEMENT SHALL BE CRUSHED STONE OR SIMILAR MATERIAL AS APPROVED BY THE ENGINEER.
4. CONTRACTORS ARE ADVISED TO COORDINATE INSTALLATION OF ALL BURIED CONDUITS AND LINES SUCH THAT LINES WHICH CROSS ARE LAID BEGINNING WITH THE DEEPEST LINE FIRST.
5. DEPTH OF WATERLINE SHALL BE ADJUSTED AS REQUIRED TO ALLOW FOR SPECIFIED PLACEMENT OF SANITARY AND STORM SEWERS, BUT IN NO CASE LESS THAN 36 INCHES.
6. TAPPING AND INSPECTION FEES SHALL BE PAID BY CONTRACTOR, METER FEES SHALL BE PAID BY OWNER.
7. CONTRACTOR SHALL COORDINATE WATER AND SEWER SERVICES CONSTRUCTION WITH CITY OF GOODLETTSVILLE WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
8. ALL TRENCHING, PIPE LAYING AND BACK FILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
9. CONTRACTOR SHALL OBTAIN APPROVAL FROM ALL GOVERNING AGENCIES HAVING JURISDICTION OF UTILITY SYSTEMS PRIOR TO INSTALLATION.
10. ALL GATE VALVES SHALL BE PROVIDED WITH VALVE BOX IN ACCORDANCE WITH THE LOCAL WATER UTILITY STANDARDS. MAIN WATER VALVES SHALL ONLY BE OPERATED BY LOCAL UTILITY PERSONNEL.
11. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, TAPPING TEES, & FIRE HYDRANTS AND SHALL BE CONSTRUCTED ACCORDING TO LOCAL WATER UTILITY STANDARDS.
12. ALL WATER AND SANITARY SEWER SERVICE LINES TO THE BUILDING(S) SHALL BE PROVIDED WITH A TEMPORARY PLUG (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY). COORDINATE ALL TESTING AND INSPECTION WITH THE LOCAL UTILITY COMPANY.
13. THE CONTRACTOR SHALL FLUSH AND TEST ALL NEW UTILITY LINES ACCORDING TO THE LOCAL UTILITY COMPANY STANDARDS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND ELEVATIONS OF EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED AFTER CONSTRUCTION HAS BEGUN SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
15. THE MINIMAL SEPERATION BETWEEN WATER AND SEWER LINES IS TEN (10) FEET OUTSIDE DIAMETER TO OUTSIDE DIAMETER. THE MINIMUM VERTICAL SEPERATION IS EIGHTEEN (18) INCHES.
16. BEFORE YOU DIG:
CONTRACTOR SHALL NOTIFY TNONECALL, CALL 811 OR 800-351-1111 72 HOURS PRIOR TO EXCAVATION, TO LOCATE ALL UNDERGROUND UTILITIES WITHIN THE PROPOSED SITE.
17. CONTRACTOR SHALL VERIFY LOCATIONS THAT UTILITIES ENTER THE BUILDING FROM THE ARCHITECTURAL PLANS PRIOR TO INSTALLING UTILITY SERVICE LINE.
18. NEITHER THE OWNERS OR THE ENGINEER SHALL BE RESPONSIBLE FOR SUB-SURFACE CONDITIONS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION CONCERNING SUB-SURFACE CONDITIONS.
19. CARE SHALL BE TAKEN TO PROTECT ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO PRIVATE PROPERTY INCLUDING PROPERTY OF THE CITY, COUNTY, STATE OR FEDERAL GOVERNMENT.
20. THE CONTRACTOR SHALL "HOLD HARMLESS" AND SAVE THE OWNER AND ENGINEER FROM ANY ACTS OF THE CONTRACTOR, HIS EMPLOYEES, SUB-CONTRACTORS, MATERIAL SUPPLIERS OR OTHERS WHO MAY BE PERFORMING WORK OR DUTIES IN CONNECTION WITH THE CONTRACTOR'S OPERATIONS.
21. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY WARNING DEVICES FOR PROTECTION OF THE WORK AND SAFETY OF WORKERS AND PASSERBY INCLUDING BARRICADES, WARNING SIGNS AND LIGHTS DURING THE EVENING AND NIGHT.



SITE UTILITY PLAN
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DATE	REVISIONS

DATE: DECEMBER 2017
 DRAWN BY: PRICE
 CHECKED BY: PRICE
 APPROVED BY: PRICE

SITE UTILITY PLAN
 PEAY PARK SPLASH PAD
 CITY OF GOODLETTSVILLE
 DAVIDSON COUNTY, TENNESSEE

SDATES
 SFILES