

- SITE UTILITY NOTES:**
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES. ALL FILL MATERIALS SHALL BE STRUCTURAL FILL AS DESCRIBED IN THE SPECIFICATIONS FOR "EARTHWORK".
 - DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - ALL UTILITIES TAKEN OUT OF SERVICE SHALL BE DEMOLISHED AND REMOVED.
 - CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS A MINIMUM OF 72 HOURS BEFORE COMMENCEMENT OF UTILITY INSTALLATION AND FOR COORDINATION OF CONNECTIONS TO EXISTING LINES.
 - LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING. CONTRACTOR SHALL PAY ALL FEES.
 - ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOTATING BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE. AS BUILT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO UTILITY PROVIDERS AS REQUIRED AFTER CONSTRUCTION AND COPIED TO ENGINEER OF RECORD.
 - CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 30 INCHES ON WATER LINES AND 30 INCHES ON SEWER LINES.
 - WATER, SEWER, AND STORM LINES SHALL BE KEPT 10 FEET APART HORIZONTALLY AND 18 INCHES APART VERTICALLY WHEN CROSSING (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE), UNLESS NOTED OTHERWISE.
 - WHEN CROSSING, WATER LINES SHALL BE CONSTRUCTED ABOVE SEWER LINES AND STORM LINES, UNLESS A LACK OF DEPTH ABOVE THE SEWER OR STORM LINE NECESSITATES CONSTRUCTION OF WATER LINES BENEATH SEWER LINES OR STORM LINES. IN THE EVENT OF A VERTICAL CONFLICT, THE FOLLOWING MODIFICATIONS MUST OCCUR:
 - SEWER LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
 - STORM LINES SHALL HAVE "O-RING" GASKETS WITH HUGGER BAND COUPLING AT LEAST 10 FEET ON BOTH SIDES OF THE CROSSING.
 - WATER LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AND APPROPRIATE THRUST BLOCKING MEETING REQUIREMENTS OF ANSI 21.10 OR 21.11 (AWWA C-151)(CLASS 50)
 - WATER LINES SHALL BE AS FOLLOWS:
 - PIPE SIZES LESS THAN 4 INCHES, SEAMLESS COPPER TUBING (TYPE "K" SOFT COPPER PER ASTM B88).
 - PIPE SIZES 4 INCHES AND LARGER, DUCTILE IRON WATER PIPE (AWWA C151/A21.51, PRESSURE CLASS 250PSI (4 INCHES -12 INCHES) OR PVC ULTRA-BLUE WATER PIPE (ASTM F1463 (CLASS 200), CONTINUALLY MARKED AS REQUIRED.
 - ALL WATER FITTINGS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS DESCRIBED IN SPECIFICATIONS.
 - SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 - PVC (ASTM D3034, RATED SDR 26, CONTINUALLY MARKED AS REQUIRED), FOR PIPES LESS THAN 12 FEET DEEP.
 - DUCTILE IRON PIPE (AWWA C151, CLASS 350, FOR PIPES MORE THAN 12 FEET DEEP.
 - TOPS OF EXISTING MANHOLES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS AND 6 INCHES ABOVE FINISHED GROUND ELEVATIONS IN UNPAVED AREAS.
 - GAS LINES SHALL BE SIZED, LOCATED, AND INSTALLED BY UTILITY PROVIDER. CONTRACTOR SHALL COORDINATE AND PAY ALL FEES.
 - MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
 - ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
 - REFER TO ARCHITECTURAL/MEP PLANS FOR TIE-IN OF ALL UTILITIES. LOCATIONS SHOWN ARE APPROXIMATE.
 - REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.

WATER, SEWER, GAS, ELECTRIC, TELEPHONE LINES, AND THEIR APPURTANANCES SHALL BE INSTALLED PER THE STANDARDS AND SPECIFICATIONS OF THE UTILITY PROVIDERS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE UTILITY PROVIDERS AND PAY ALL FEES.

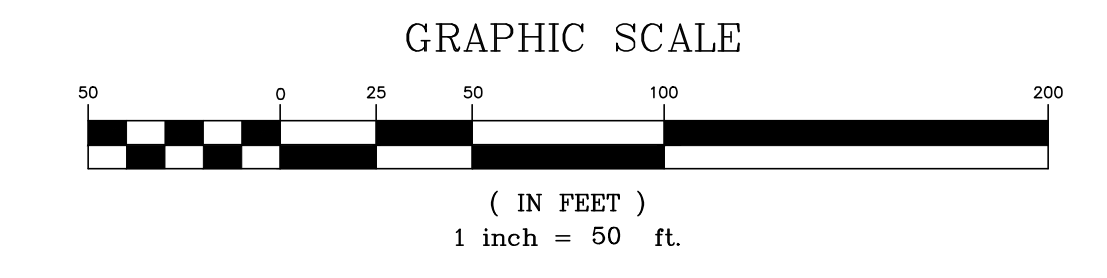
REFER TO SHEET C8.2 FOR SITE UTILITY DETAILS

SITE UTILITY LEGEND:

---	SS	EXISTING SANITARY SEWER LINE
---	W	EXISTING WATER LINE
---	GAS	EXISTING GAS LINE
---	OHE	EXISTING OVERHEAD ELECTRIC
---	OHT	EXISTING OVERHEAD TELEPHONE
---	ST	EXISTING STORM PIPE
---	SS	PROPOSED SANITARY SEWER LINE
---	FW	PROPOSED WATER LINE
---		PROPOSED CONDUIT FOR TAMPER SWITCH
---		PROPOSED STORM PIPE - FOR REFERENCE ONLY
EX		EXISTING
⊗		EXISTING FIRE HYDRANT
⊗		EXISTING ISOLATION GATE VALVE
⊗		EXISTING UTILITY POLE
⊗		EXISTING LIGHT POLE
⊗		EXISTING SANITARY SEWER MANHOLE
⊗		PROPOSED FIRE HYDRANT ASSEMBLY
⊗		PROPOSED VALVE
⊗		PROPOSED POST INDICATOR VALVE
SS		SANITARY SEWER
SSCO		SANITARY SEWER CLEANOUT
●		PROPOSED SANITARY SEWER MANHOLE

CONTRACTOR SHALL MEET WITH KNOXVILLE UTILITIES BOARD ON SITE PRIOR TO COMMENCING ANY WORK.

ALL SANITARY SEWER MANHOLES, CLEANOUTS, WATER VALVE BOX, AND ANY OTHER SURFACE STRUCTURE ASSOCIATED WITH THE INSTALLATION OF UTILITIES THAT ARE LOCATED IN ASPHALT PAVEMENT SHALL HAVE A CONCRETE COLLAR AS SHOWN IN DETAIL ON SHEET C8.2



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FOR PRICING

Site Utility Plan

Proposed Warehouse

Trebort Ln
Knoxville, Tennessee 37920
HBC Warehouse Holdings Partners

REVISIONS

NO.	DATE	COMMENTS

ORIGINAL ISSUE: 03/25/2022
SITE PROJECT #: 2055
FILE: 2055 Utility
SHEET: OF:
C5.0