UTILITY PLAN

CITY OF LEBANON HIGHWAY GARAGE

EXISTING LEGEND

- POWERPOLE
- POWERPOLE W/RISER
- POWERPOLE W/LIGHT
- LIGHT POLE
- ELECTRIC METER
- ELECTRIC BOX
- YARD LIGHT
- GUIDE WIRE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- WATER VALVE
- FIRE HYDRANT
- WELL
- WATER MANHOLE
- WATER METER
- GAS VALVE
- GAS VALVE
- CABLE TV RISER
- CLEANOUT
- SIGN
- STORM ROUND INLET
- STORM CURB INLET
- TREE, BUSH & STUMP
- TEMP. BENCHMARK
- CONTOURS (800)
- PROPERTY LINE
- RIGHT-OF-WAY
- EASEMENT
- ADJOINER LINE
- PAVEMENT LINE
- FIELD LINE
- CHAINLINK FENCE
- DITCH
- GAS LINE (G)
- TELEPHONE LINE (T)
- WATER LINE (W)
- CABLE TV LINE (CTV)
- ELECTRIC LINE (E)
- OVERHEAD UTILITY LINE (OHU)
- TREE LINE
- SANITARY SEWER W/MANHOLE
- STORM SEWER W/ MANHOLE & END SECTION
- ASPHALT
- CONCRETE
- REMOVAL/ DEMOLISH

PROPOSED LEGEND

- PROPERTY LINE
- FENCE LINE
- SANITARY SEWER LATERAL WITH CLEANOUT (PSL)
- STORM SEWER W/MANHOLE & END SECTION
- FORCE MAIN (PFM)
- ELECTRIC LINE (PE)
- WATER LINE (PW)
- GAS LINE (PG)
- COMMUNICATION LINE (COM)
- WATER TEE
- 45° BEND
- TAPPING SLEEVE
- WATER VALVE
- FIRE HYDRANT
- STORTZ FDC
- PIV
- ELECTRIC TRANSFORMER
- AIR CONDENSER UNIT
- GAS METER
- OIL/WATER SEPARATOR
- LIGHT POLE
- FYS FRONT YARD SETBACK
- SYS SIDE YARD SETBACK
- UE UTILITY EASEMENT
- ## SANITARY NOTES (THIS SHEET)

SANITARY NOTES

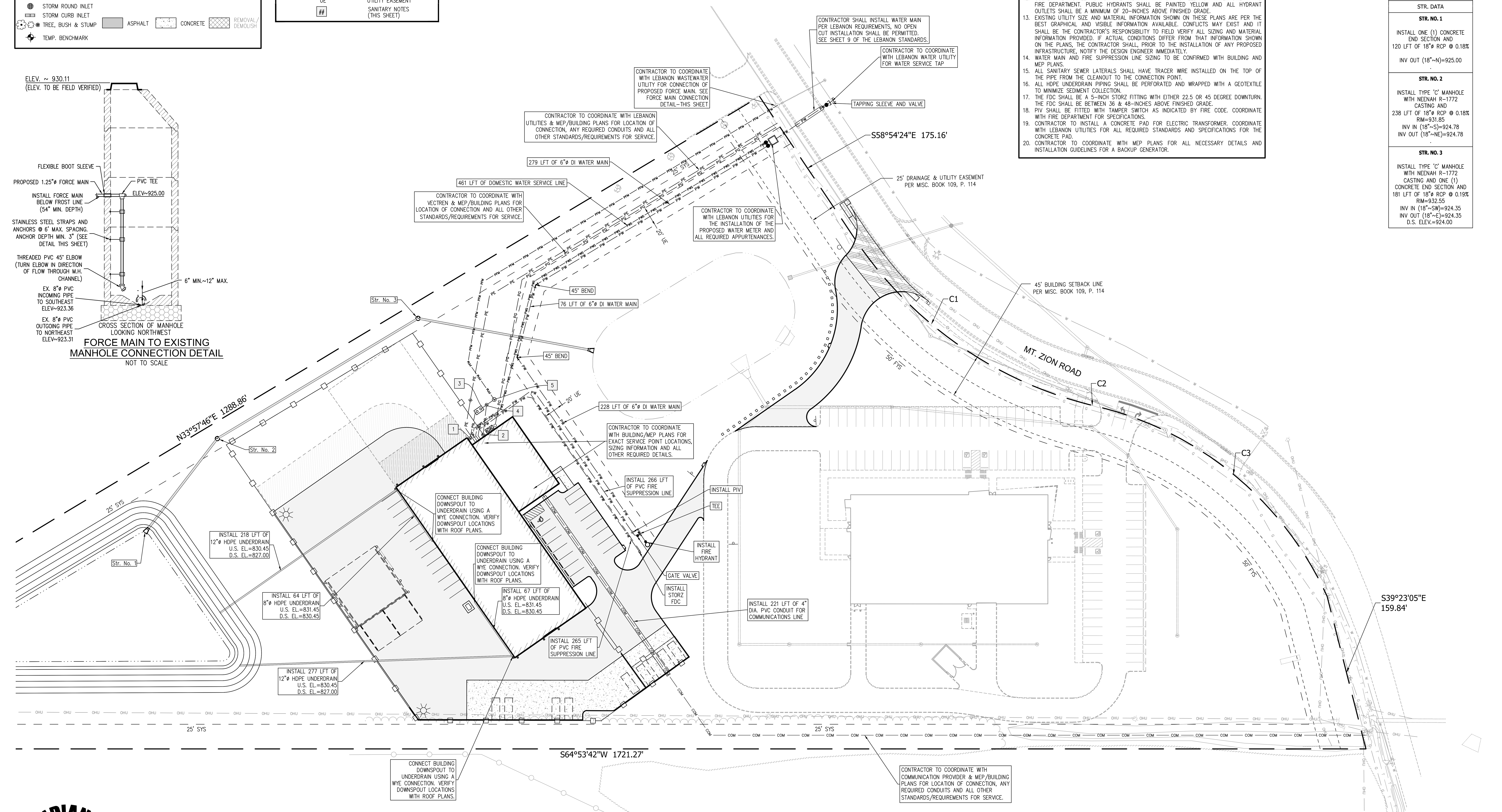
1. CONTRACTOR TO CONNECT INTERNAL TRENCH DRAIN FROM BUILDING AND INSTALL SANITARY SEWER CLEANOUT WITH 27 LFT OF 6"ø SDR 26 PVC @ ¼" PER FOOT MIN. SLOPE.
2. INSTALL SANITARY SEWER CLEANOUT AND 31 LFT OF 6"ø SDR 26 PVC @ ¼" PER FOOT MIN. SLOPE.
3. INSTALL OIL/WATER SEPARATOR. CONTRACTOR TO COORIDATE WITH BUILDING/MEP PLANS FOR EXACT DETAIL AND SERVICE POINTS.
4. INSTALL SANITARY SEWER CLEANOUT AND 8 LFT OF 6"ø SDR 26 PVC @ ¼" PER FOOT MIN. SLOPE.
5. INSTALL WH482-92 E-ONE UNIT AND 477 LFT OF 1.25"ø SDR 11 HDPE FORCE MAIN. MAINTAIN 54" COVER (MIN.)
(SEE DETAIL-SHEET 800)
RIM=933.50
INV. IN (6")=928.47

UTILITIES NOTES

1. WATER MAIN INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF LEBANON WATER UTILITY STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH LEBANON FOR CONNECTION AND TESTING PROCEDURES AND REQUIREMENTS. ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM 56 INCHES OF COVER FROM FINISH GRADE. MAIN SHALL BE DEFLECTED AS REQUIRED TO MAINTAIN MINIMUM SEPARATION REQUIREMENTS AT ALL UTILITY CROSSINGS.
2. CONTRACTOR SHALL NOTIFY ENGINEER, IF PROOF ROLL OF SUBGRADE FAILS, TO DETERMINE IF LIME STABILIZATION OF SUBGRADE IS NECESSARY.
3. ALL RADII DIMENSIONS ARE TO THE FACE OF PROPOSED CURB.
4. SIGNAGE SHALL INCLUDE ALL NECESSARY HARDWARE AND FITTINGS, INCLUDING 10 FT. OF 11 GAUGE FLANGED CHANNEL SIGN POST.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL SIGNAGE. VERIFY CONFLICTS WITH OWNER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND PROVIDING ALL NECESSARY FLAGMAN, BARRELS, SIGNAGE, ETC. DURING CONSTRUCTION. ALL APPLICABLE M.U.T.C.D. STANDARDS SHALL GOVERN THIS WORK.
7. CONTRACTOR SHALL VERIFY ALL NECESSARY REQUIREMENTS FOR TRASH ENCLOSURES WITH BUILDING PLANS AND OWNER. MANUFACTURER'S STANDARDS SHALL BE FOLLOWED.
8. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES AND BUILDING PLANS FOR WATER, CABLE, ELECTRIC, AND TELEPHONE CONNECTION SERVICE POINTS.
9. CONTRACTOR TO COORDINATE WITH ELECTRIC PROVIDER FOR NECESSARY ELECTRIC SERVICE REQUIREMENTS AND SPECIFICATIONS, AND BUILDING PLANS FOR ALL SERVICE POINTS AT EACH BUILDING.
10. GATE VALVES SHALL BE INSTALLED ON ALL SERVICE LINE TAPS. COORDINATE WITH THE CITY OF LEBANON WATER UTILITY FOR ALL STANDARDS AND SPECIFICATIONS.
11. ALL FIELD TILES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED/CONNECTED TO NEW DRAINAGE FACILITIES.
12. COORDINATE INSTALLATION OF FIRE HYDRANT WITH CITY OF LEBANON WATER UTILITY AND FIRE DEPARTMENT. PUBLIC HYDRANTS SHALL BE PAINTED YELLOW AND ALL HYDRANT OUTLETS SHALL BE A MINIMUM OF 20-INCHES ABOVE FINISHED GRADE.
13. EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.
14. WATER MAIN AND FIRE SUPPRESSION LINE SIZING TO BE CONFIRMED WITH BUILDING AND MEP PLANS.
15. ALL SANITARY SEWER LATERALS SHALL HAVE TRACER WIRE INSTALLED ON THE TOP OF THE PIPE FROM THE CLEANOUT TO THE CONNECTION POINT.
16. ALL HDPE UNDERDRAIN PIPING SHALL BE PERFORATED AND WRAPPED WITH A GEOTEXTILE TO MINIMIZE SEDIMENT COLLECTION.
17. THE FDC SHALL BE A 5-INCH STORZ FITTING WITH EITHER 22.5 OR 45 DEGREE DOWNTURN. THE FDC SHALL BE BETWEEN 36 & 48-INCHES ABOVE FINISHED GRADE.
18. PIV SHALL BE FITTED WITH TAMPER SWITCH AS INDICATED BY FIRE CODE. COORDINATE WITH FIRE DEPARTMENT FOR SPECIFICATIONS.
19. CONTRACTOR TO INSTALL A CONCRETE PAD FOR ELECTRIC TRANSFORMER. COORDINATE WITH LEBANON UTILITIES FOR ALL REQUIRED STANDARDS AND SPECIFICATIONS FOR THE CONCRETE PAD.
20. CONTRACTOR TO COORDINATE WITH MEP PLANS FOR ALL NECESSARY DETAILS AND INSTALLATION GUIDELINES FOR A BACKUP GENERATOR.

SCALE: 1" = 50'

STORM SEWER STRUCTURE TABLE
STR. DATA
STR. NO. 1 INSTALL ONE (1) CONCRETE END SECTION AND 120 LFT OF 18"ø RCP @ 0.18% INV OUT (18"~N)=925.00
STR. NO. 2 INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING AND 238 LFT OF 18"ø RCP @ 0.18% RIM=931.85 INV IN (18"~S)=924.78 INV OUT (18"~NE)=924.78
STR. NO. 3 INSTALL TYPE 'C' MANHOLE WITH NEENAH R-1772 CASTING AND ONE (1) CONCRETE END SECTION AND 181 LFT OF 18"ø RCP @ 0.19% RIM=932.55 INV IN (18"~SW)=924.35 INV OUT (18"~E)=924.35 D.S. ELEV.=924.00



NOTE:
NO EARTHWORK DISTURBING ACTIVITY MAY COMMENCE UNTIL A STORM WATER MANAGEMENT PERMIT IS OBTAINED.

INDIANA 811 Know what's below. Call before you dig

DIRECTORY PATH : R:\Active\Lebanon, City\2020 Highway Garage\Design\CAD\Plans
FILENAME : 400 UTILITY.dwg
DATE/USER : 1/21/2021 10:34 AM / Lcox

CROSSROAD ENGINEERS, PC
TRANSPORTATION & DEVELOPMENT CONSULTANTS
3417 SHERMAN DRIVE
BEECH GROVE, IN 46107
(317) 780-1555
CROSSROADENGINEERS.COM

GREGORY J. ILKO REGISTERED No. 10300059 STATE OF INDIANA PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION

JOB No.	.	DRAWN	DJM	CHECKED	TEN
DATE	DECEMBER 11, 2020	DESIGNED	KLF/LMC	APPR.	GJI

NO.	DATE	REVISIONS	BY	APPR.
1	01.XX.21	MISCELLANEOUS REVISIONS PER CLIENT & CITY OF LEBANON TAC COMMENTS	DJM	GJI
2				
3				
4				
5				
6				
7				
8				
9				

SHEET 400