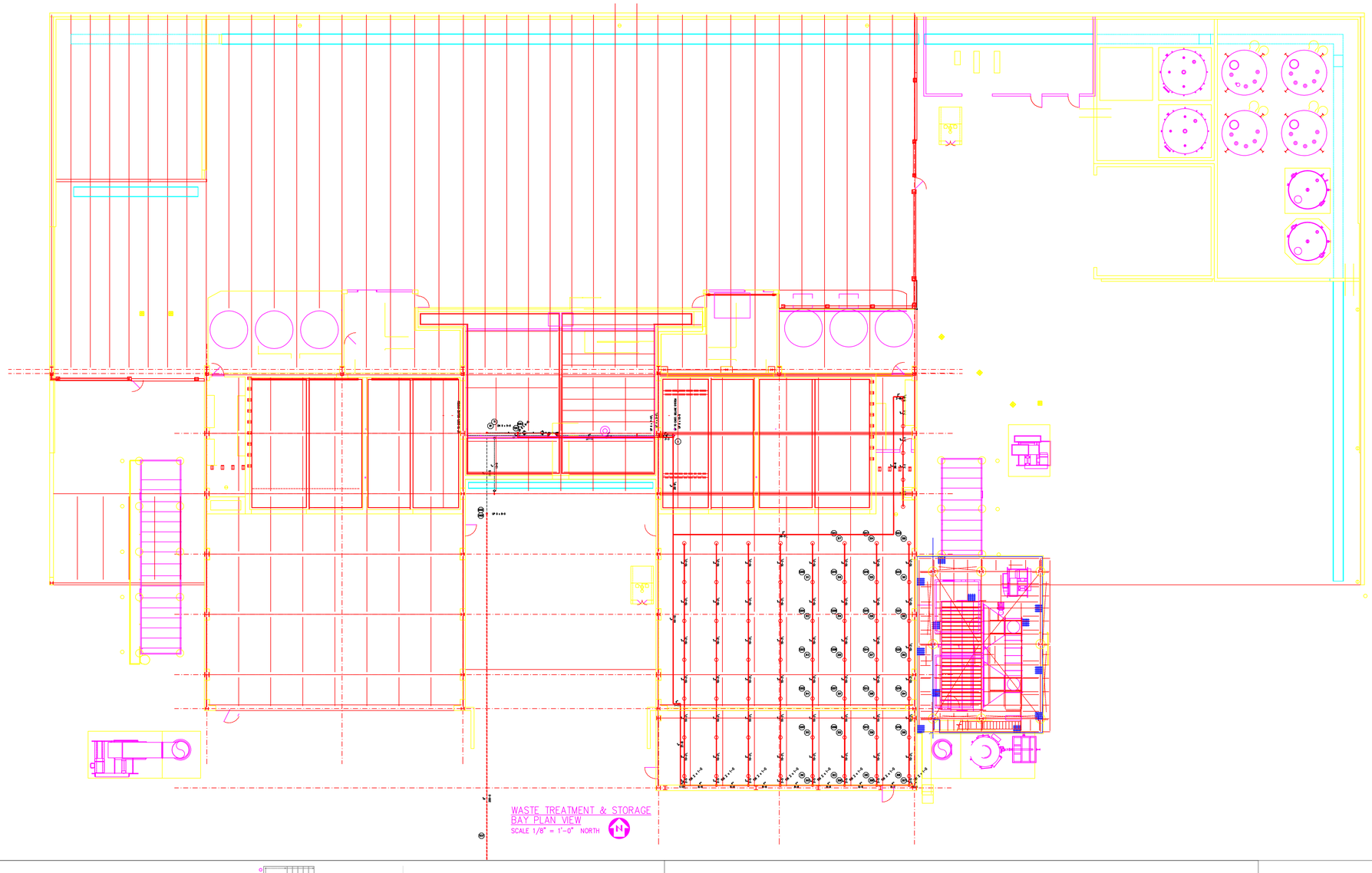


WASTE TREATMENT & STORAGE BAY PLAN VIEW
SCALE 1/8" = 1'-0" NORTH

– GENERAL NOTES –

- IT IS THE BUILDING OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEAT FOR ALL AREAS IN THE BUILDING PROTECTED BY WET SPRINKLER SYSTEMS AND FOR ALL WATER FILLED SUPPLY PIPES, VALVES AND SYSTEM RISERS.
- DESIGN/INSTALLATION AND FABRICATION PER NFPA.

—/— DENOTES HANGER LOCATION.

○ DENOTES HYDRAULIC REFERENCE POINT.

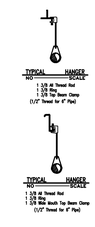
- ALL MATERIAL TO BE UL LISTED.
- ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS, OR AT 50 PSI IN EXCESS OF 150 PSI.
- WHETHER OR NOT INDICATED ON THE DRAWINGS, THE FOLLOWING ITEMS ARE TO BE PROVIDED:
- SPARE HEAD CABINET WITH WRENCH (NFPA 13)
- PROVISIONS FOR FLUSHING CONNECTIONS AND DRAINING OF ALL PIPE.
- INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH SYSTEM, SEE NFPA 13.
- HANGERS TO BE INSTALLED PER NFPA 13
- MAIN PIPE TO BE ROLL-GROOVED SCH.40 (GALVANIZED)
- LINE PIPE TO BE TREADED SCH.40 (GALVANIZED)
- GROOVED FITTINGS TO BE STD. VICTAULIC FIRELOCK
- SCREWED FITTINGS TO BE 125# CAST IRON (BLACK)

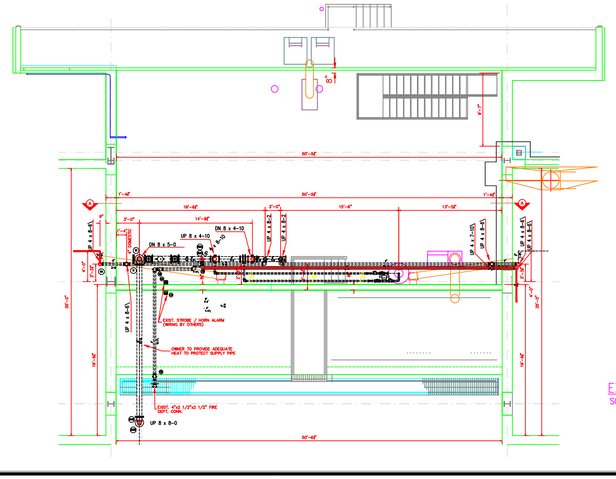
LEGEND

1. – VFP CONTROL TO START AT 8" VICTAULIC WATER SERVICE CONNECTION BY OWNERS
2. – 8" FLANGED START VALVE W/ TAMPER SWITCH
3. – 8" AMES MODEL 2000SS DOUBLE CHECK BACKFLOW
4. – 8" VICTAULIC FIRELOCK 2000 TEE
5. – 8" VICTAULIC FIRELOCK 2001 90 ELL
6. – 8" VICTAULIC 2744 FIRELOCK FLANGE
7. – 4" VICTAULIC 705W BUTTERFLY VALVE
8. – 8" VICTAULIC 717F CHECK VALVE W/ DRAIN
9. – 8" FLANGED 90 ELL
10. – 8" PIPE STANDS
11. – 4" RELIABLE MODEL 5DX DRY PIPE VALVE ASSEMBLY W/ DRAIN, FLOW & PRESSURE SWITCHES
12. – 8" AFF VARIABLE RANGE FLOW PROPORTIONER
13. – 2 1/2" FLUSHING CONNECTION
14. – SPARE HEAD CABINET
15. – STROBE / HORN ALARM
16. – 4"x 3 1/2"x 2 1/2" FIRE DEPT. CONN.
17. – 4" FIRELOCK GROOVED CHECK VALVE TO FDC
18. – 4" RELIABLE 5DX SECURE VALVE
19. – 4" RELIABLE MODEL D DRY VALVE
20. – AIR COMPRESSOR FOR MODEL D DRY VALVE

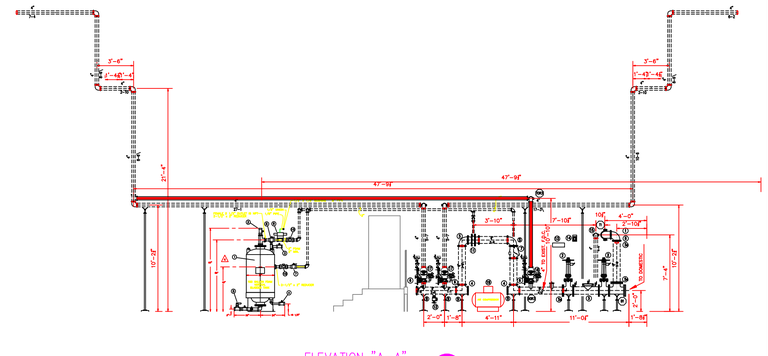
SYSTEM DESIGN SUMMARY

CALCULATED AREA: 7000ft (EAST WASTE AREA 2)
DENSITY: 0.20gpm/ft2
HOSE: 250gpm/2 hr
HAZ'D DIMENSIONS: 40'x100'(EST) (MAX.)
SPRINKLERS: 286 (EST)
AREA OF OPERATION: 1400 (EST)
SYSTEM DEMAND: 433.21 GPM @ 45.38PSI
0 GPM @ 0 PSI
WATER WORK: 250 GPM
OUTSIDE HOSE: 250 GPM
SUPPLY FDC: 250 GPM (REMOTE MAIN) "Y-1" 55U
SAFETY FACTOR: 1.5
V FACTOR: 1.5
CONTRACTOR: GEORGE TERRY

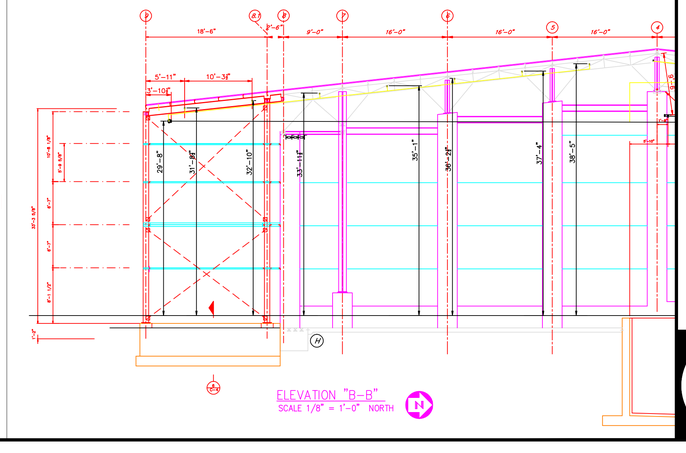




EXIST. RISER PLAN VIEW
SCALE 1/4" = 1'-0" NORTH



ELEVATION "A-A"
SCALE 1/4" = 1'-0" NORTH



ELEVATION "B-B"
SCALE 1/8" = 1'-0" NORTH

usecology
49350 N. I-94 SERVICE DRIVE, BELLEVILLE, MI 48111
TEL. (800) 396-3265

REVISIONS	
A	
B	
C	
D	
E	

FILENAME:
SCALE: N.T.S.
DRN BY: CAG

PROJ. FILE
Lic
DATE: 10/27/16
SHEET ___ OF ___

MICHIGAN DISPOSAL WASTE TREATMENT PLANT
EAST WASTE TREATMENT & STORAGE BAY
DRY SPRINKLER SYSTEM SECTION & DETAIL

PP4