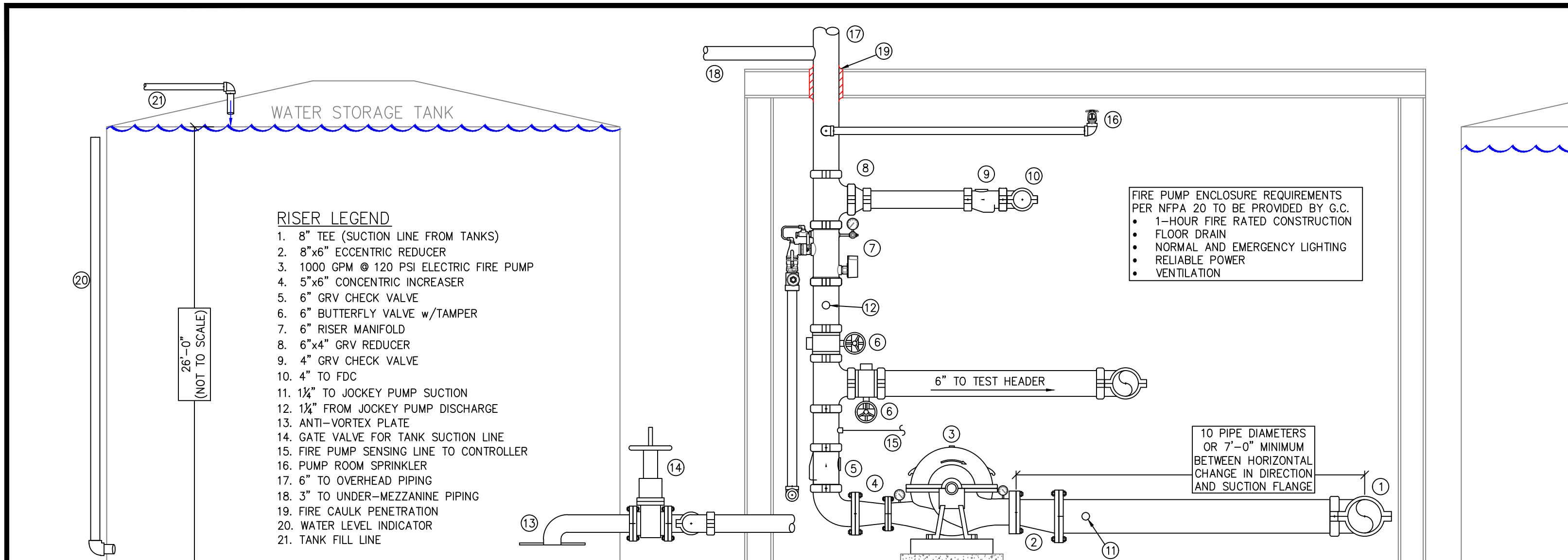
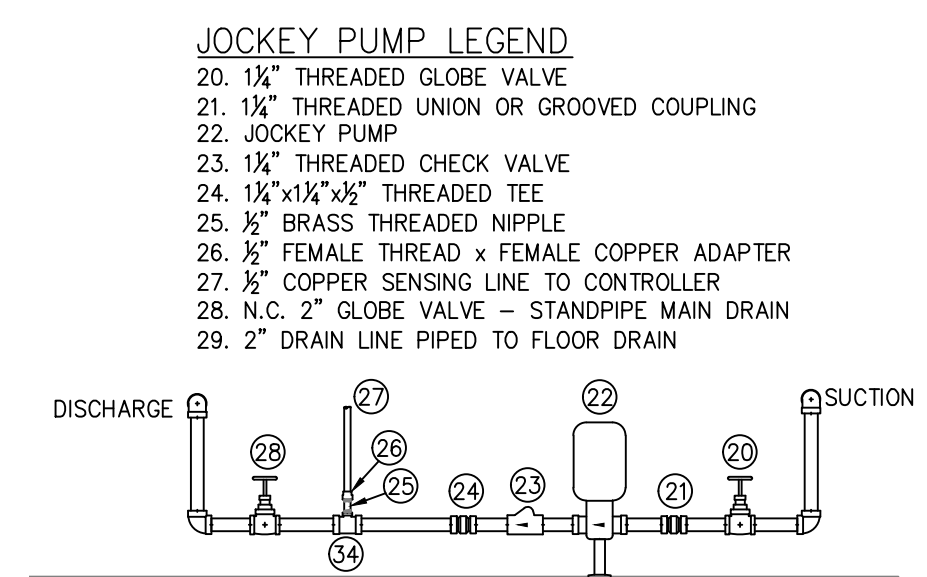
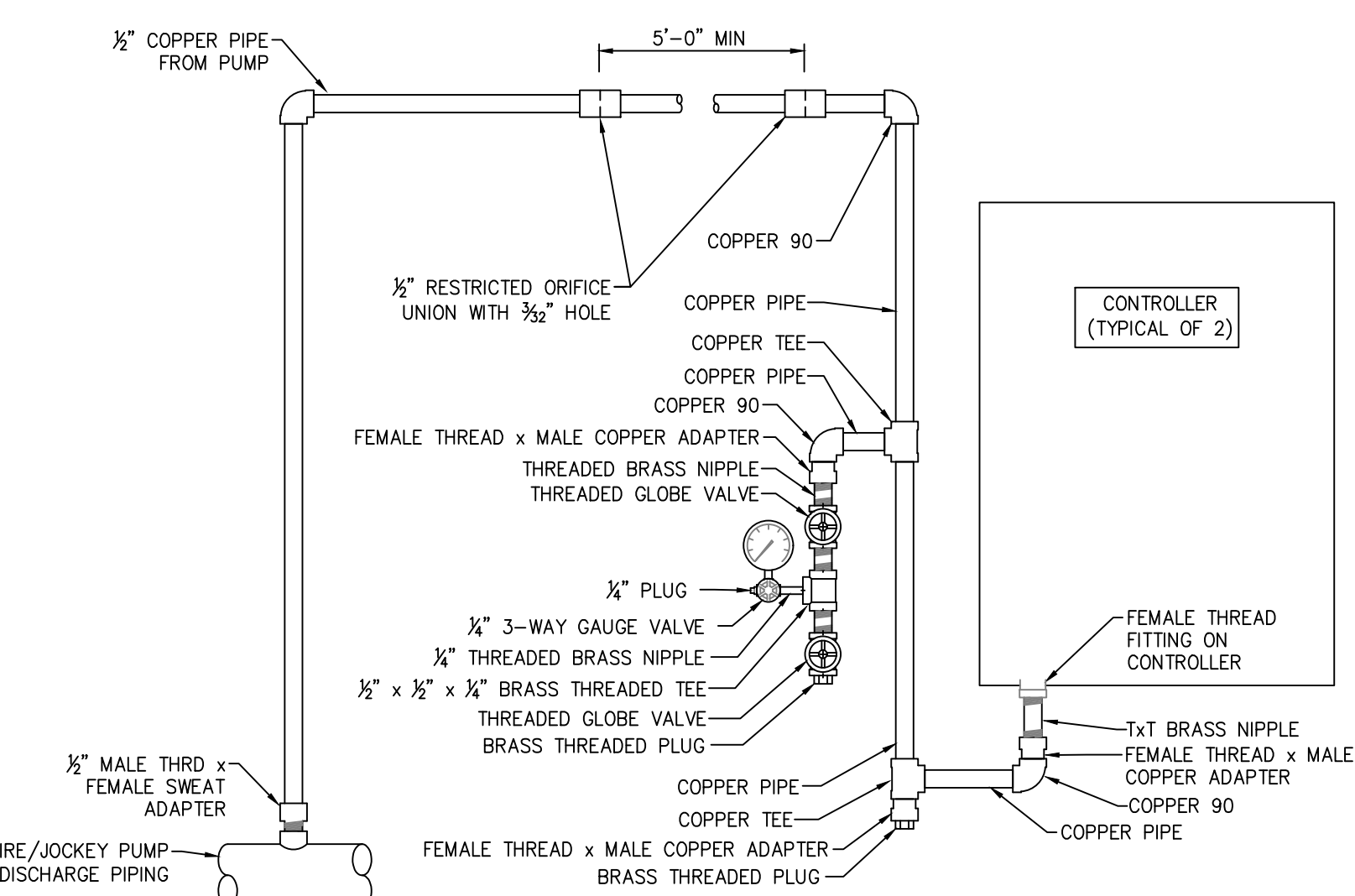




FIRE PUMP/TANK ELEVATION
SCALE= 1/2"=1'-0"



JOCKEY PUMP DETAIL
SCALE= 1/2"=1'-0"



SENSING LINES @ CONTROLLERS
N.T.S.

SCOPE OF WORK:
TO INSTALL NEW WET SPRINKLER SYSTEM IN THE NEW BUILDING AS SHOWN ON SHOP DRAWINGS. ALL PIPING TO BE STEEL. PIPE IN WASH BAY TO BE GALVANIZED. SPRINKLERS IN CEILINGS TO BE SEMI-RECESSED WHITE SPRINKLER HEADS. FDC WILL BE LOCATED ON THE NORTH WALL.

NOTES:
PIPE SCHEDULE ~
1" = SCH. 40
1 1/4" & LARGER = SCH. 7
DESIGN CRITERIA ~
LIGHT HAZARD AREAS -
DESIGNED TO DELIVER 0.10 GPM/S.F.
OVER THE MOST DEMANDING 1500 S.F.

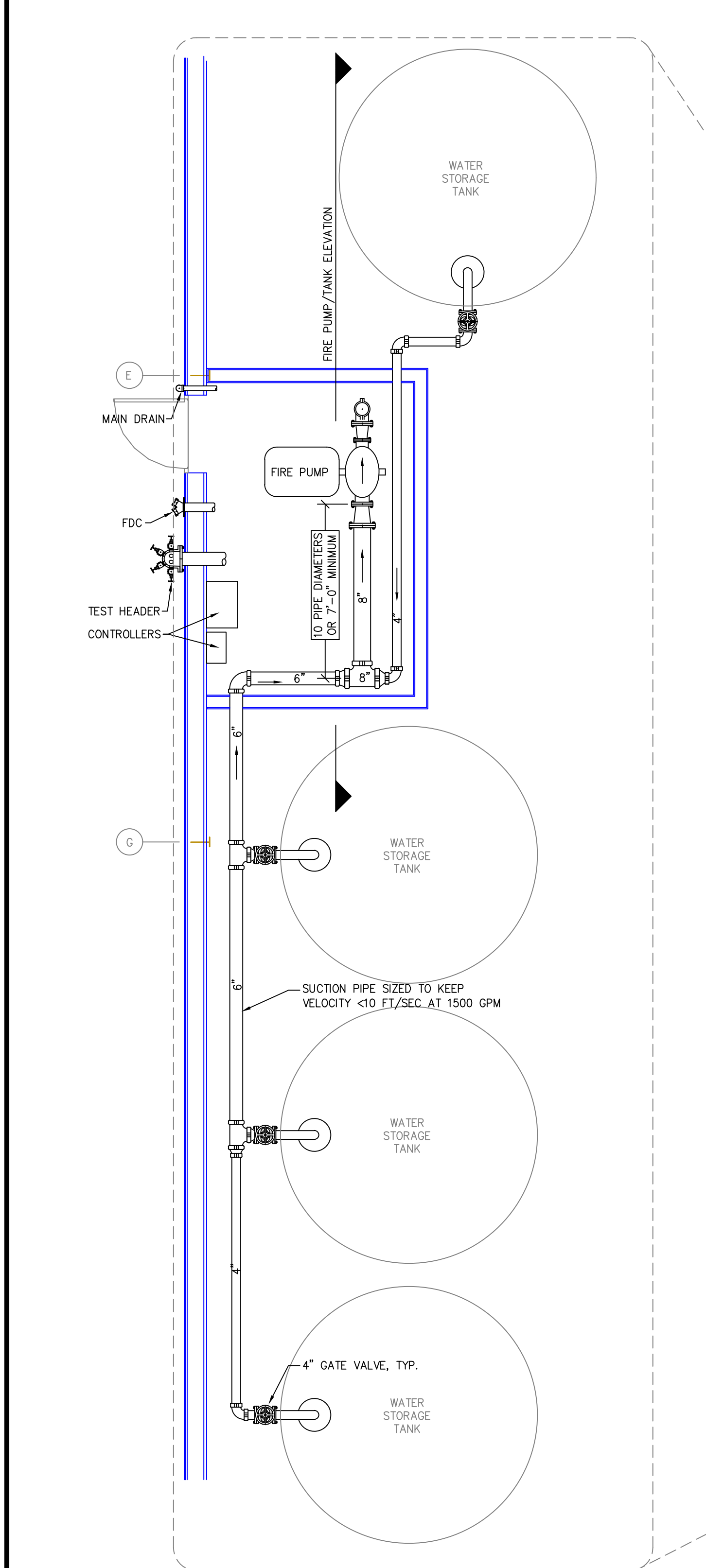
ORDINARY HAZARD GROUP 2 AREAS -
DESIGNED TO DELIVER 0.20 GPM/S.F.
OVER THE MOST DEMANDING 1500 S.F.

REMOTE AREA REDUCTIONS HAVE BEEN
TAKEN WHERE APPLICABLE PER NFPA
13 SEC. 11.2.3.2.3
FIRE CAULKING ~
ALL FIRE RATED WALLS TO BE
CAULKED w/ HILTI FS-ONE FIRE
CAULKING AS PER U.L. LISTING
FOR WALL TYPE & RATING

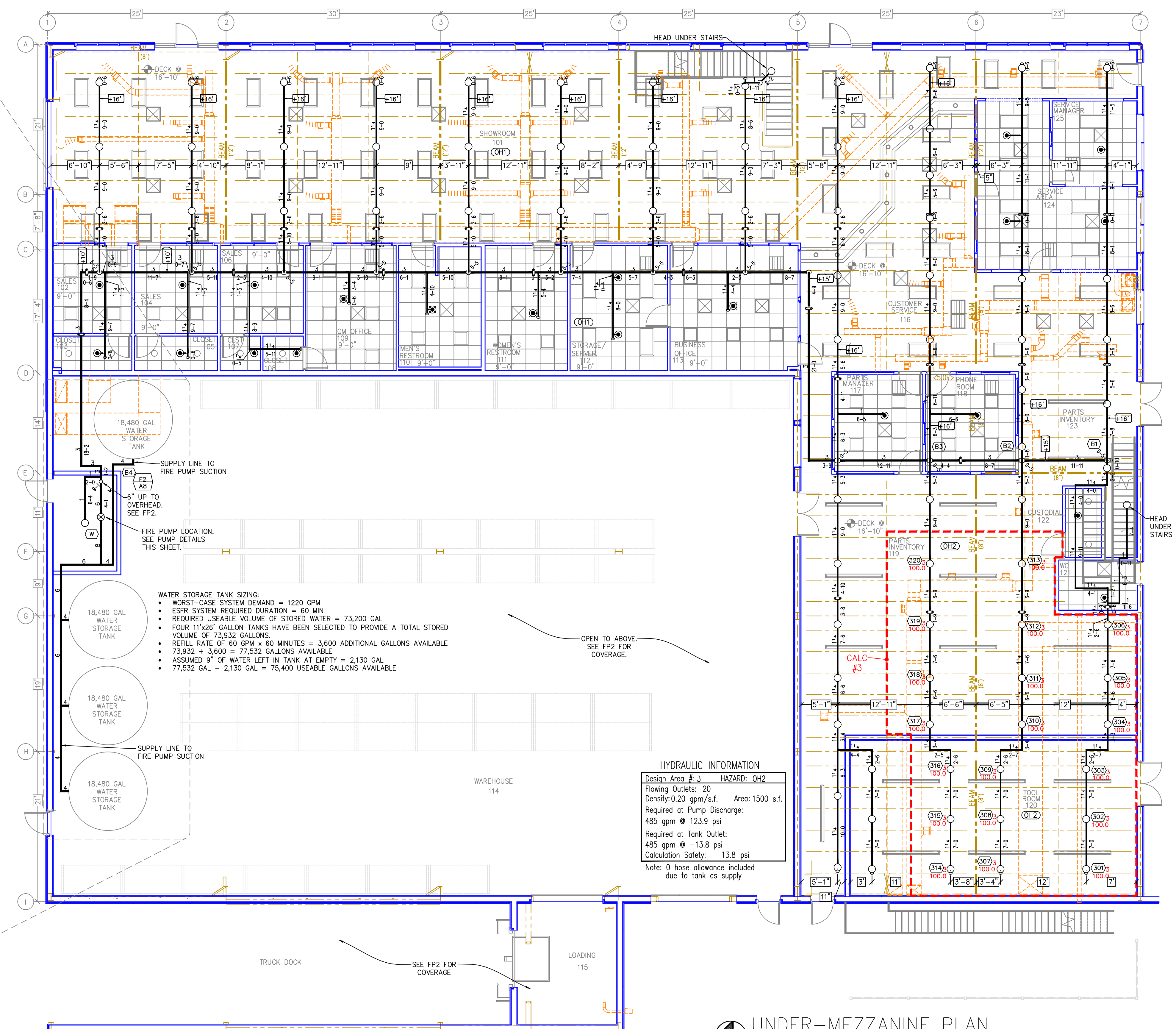
AUX. DRAINS ~
SHALL BE PROVIDED WHERE A CHANGE
IN PIPING DIRECTION PREVENTS
DRAINAGE OF SYSTEM PIPING
THROUGH THE MAIN DRAIN VA.

OBSTRUCTIONS ~
ALL SPRINKLER LOCATIONS TO BE
SPACED IN ACCORDANCE W/
OBSTRUCTIONS TO MAINTAIN CLEARANCES
~ PER NFPA-13 (EXIT SIGNS & SECURITY
EQUIPMENT SHALL NOT BE OBSCURED BY
FIRE PROTECTION SYSTEM)
ELEC. EQUIP ~
PROVIDE SHIELDS OR Baffles WHERE
WATER DAMAGE MAY RESULT FROM
HEADS TO CLOSE TO ELEC. PANELS

SYMBOLS USED ON DRAWING
- 6107 PIPE ELEVATION A.F.F.
- 6102 PIPE ELEVATION BELOW B.O.D
- (OHT) ROOM HAZARD CLASSIFICATION (ALL
ROOMS ARE CONSIDERED LIGHT
HAZARD UNLESS NOTED)
- (B2) HYDRAULIC CALCULATION JUNCTION
POINT
9'-0" CEILING HEIGHT

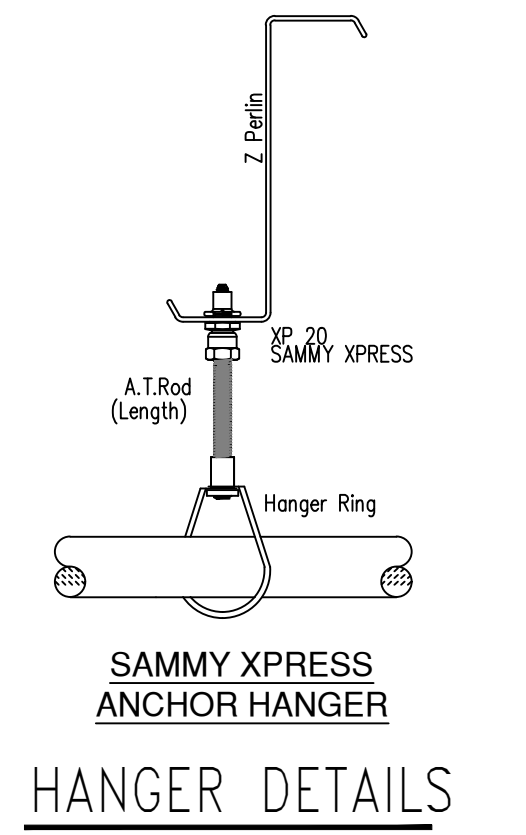
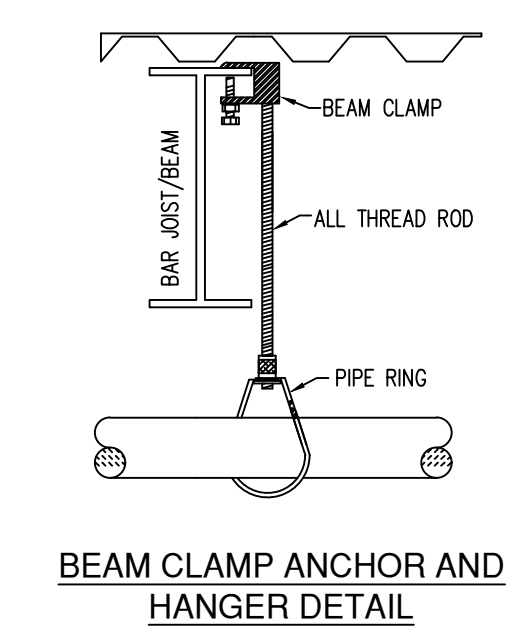


FIRE PUMP/TANK PLAN VIEW
SCALE= 1/4"=1'-0"

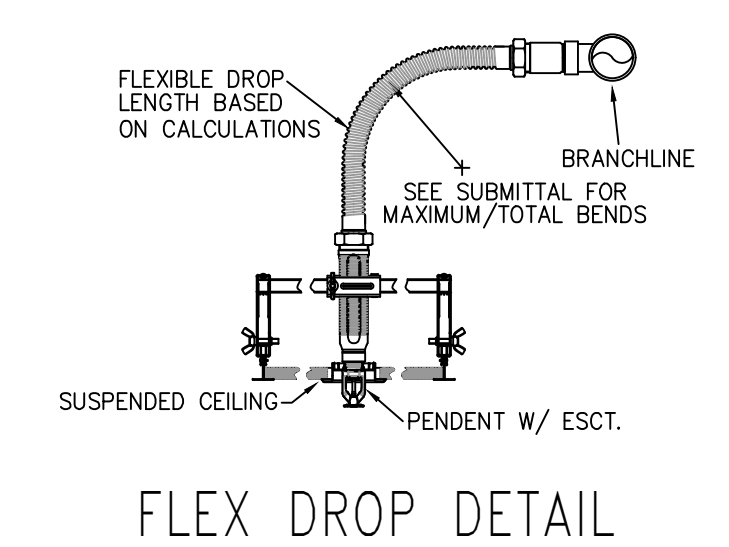


HYDRAULIC INFORMATION
Design Area: 3 HAZARD: CH2
Flowing Outlets: 20
Density: 0.20 gpm/s.f. Area: 1500 s.f.
Required at Pump Discharge:
485 gpm @ 123.9 psi
Required at Tank Outlet:
485 gpm @ 13.8 psi
Calculation Safety: 13.8 psi
Note: 0 hose allowance included
due to tank as supply

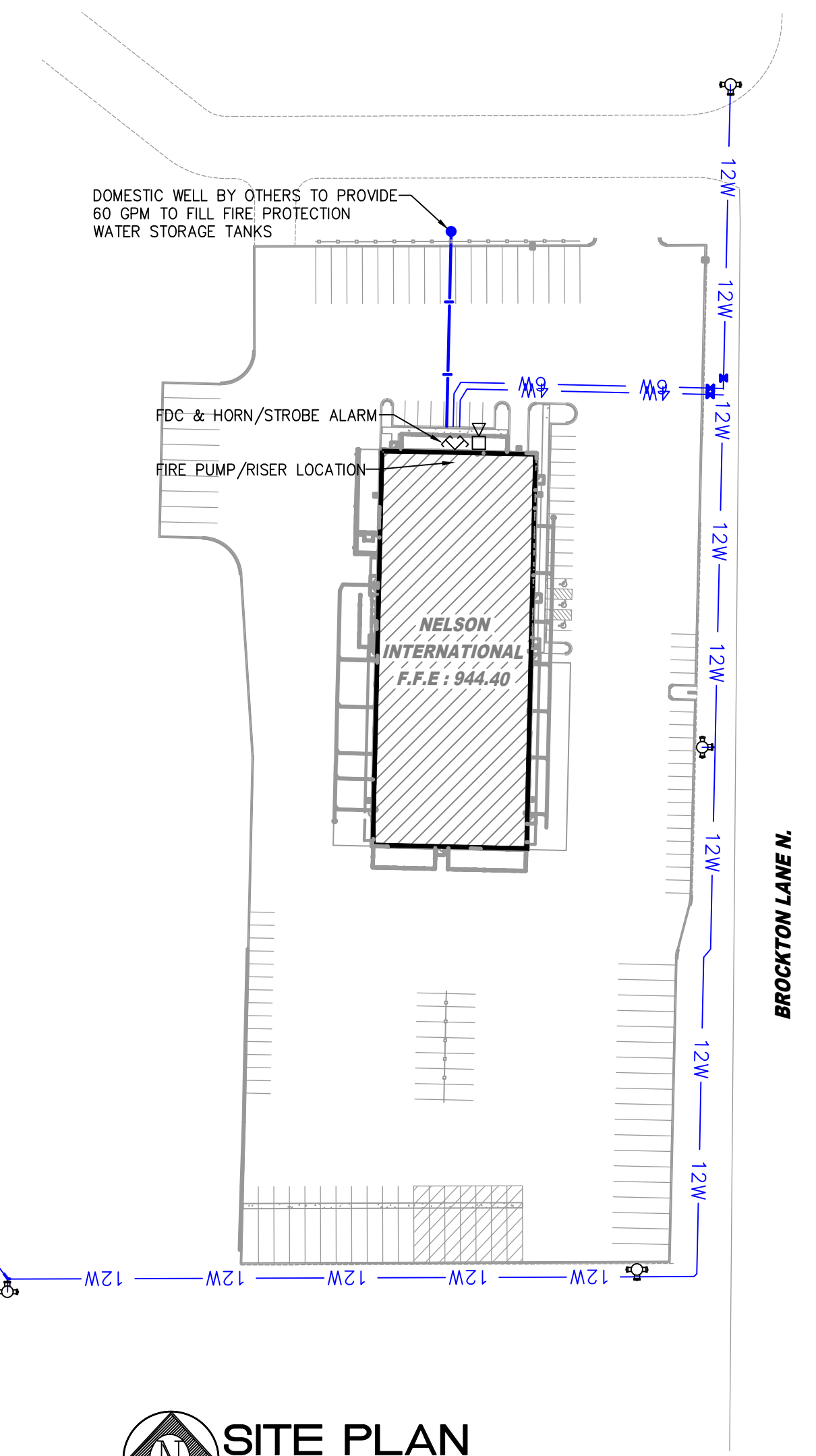
WATER STORAGE TANK SIZING:
• WORST-CASE SYSTEM DEMAND = 1220 GPM
• ESFR SYSTEM REQUIRED DURATION = 60 MIN
• REQUIRED USEABLE VOLUME OF STORED WATER = 73,200 GAL
• FOUR 11'x26' GALLON TANKS HAVE BEEN SELECTED TO PROVIDE A TOTAL STORED
VOLUME OF 73,932 GALLONS
• REFILL RATE OF 60 GPM x 60 MINUTES = 3,600 ADDITIONAL GALLONS AVAILABLE
• 73,932 + 3,600 = 77,532 GALLONS AVAILABLE
• ASSUMED 9' OF WATER LEFT IN TANK AT EMPTY = 2,130 GAL
• 77,532 GAL - 2,130 GAL = 75,400 USEABLE GALLONS AVAILABLE



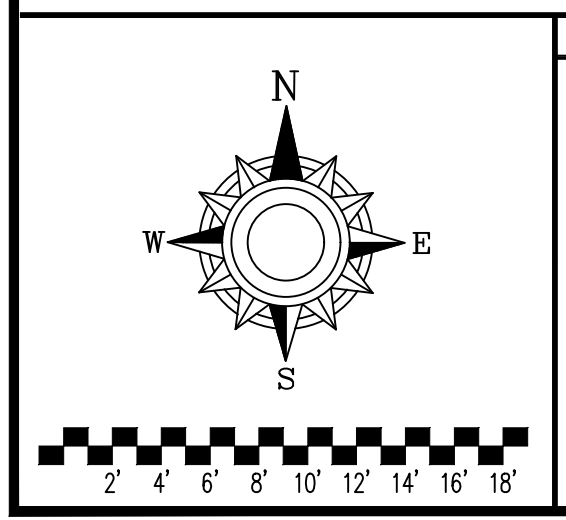
HANGER DETAILS



FLEX DROP DETAIL



SITE PLAN
1"=100'



General Notes
1. System installed per NFPA-13 (2016 Edition) and State Fire Marshal.
2. All equipment for this system shall be U.L. listed.
3. Minimum pipe size shall be 1" nominal pipe.
4. All Sch-10 & Eddy Flow piping has welded outlets & grooved fittings
all welding per NFPA-13 (3-6.2).
5. No installation or fabrication to begin without approved shop dwgs.
6. All Pipe Locations are to be Field Measured Prior to Fabrication
and Installation by Sprinkler Contractor.
7. All Dimensions Shown are Center to Center.
8. High Temperature Heads are to be Field Located Where Required.
9. Provide one spare head cabinet w/ 6 hds. & one hd wrench.
10. Hangers are to be U.L. Listed and F.M. Approved.
11. Electrical wiring, alarm, detection and supervisory by owner.
12. Owner's responsibility to provide adequate heating to prevent wet
system piping from freezing.

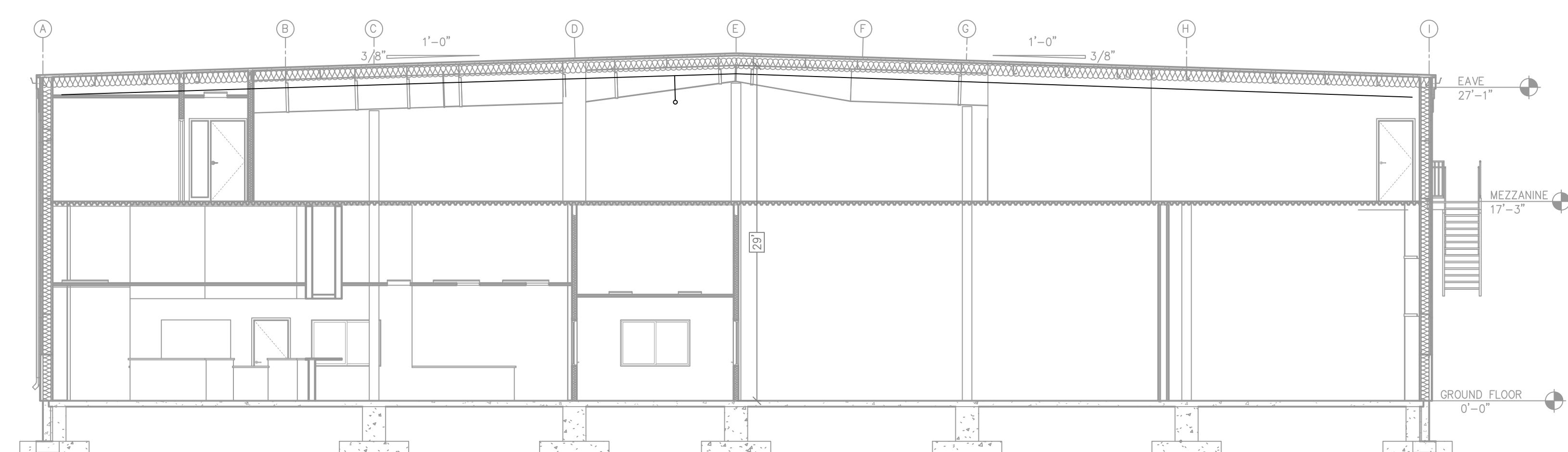
SPRINKLER LEGEND										
SYM	ICR	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCH/CHRON
⊗	28	UPR	BRASS	286	14.00	3/4"	TY6137	Typo	EC-14	NONE
⊗	106	PEND	BRASS	214	25.20	1"	TY9226	Typo	ESFR-25	NONE
⊗	210	UPR	BRASS	286	5.60	1/2"	TY3151	Typo	TY-B	NONE
⊗	10	PEND	WHITE	175	14.00	3/4"	TY6337	Typo	EC-14	SEMI-RECESSED
⊗	105	PEND	WHITE	200	5.60	1/2"	TY333	Typo	TY-FRB	SEMI-RECESSED
⊗	14	SIDE	BRASS	200	11.20	3/4"	TY3332	Typo	ELOS20	NONE
⊗	26	UPR	WHITE	286	5.60	1/2"	TY3151	Typo	TY-B	NONE
⊗	6	SIDE (DRY)	CHROME	200	11.20	1"	TY5339	Typo	DS-3	STANDARD
430 Total This Job										

APPROVAL STAMPS

Drawing Title: **FIRE PROTECTION PLAN**

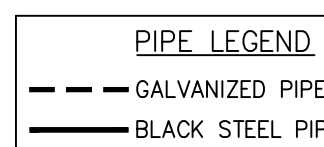
NELSON INTERNATIONAL
10409 COUNTY ROAD 101
CORCORAN, MN 55374

Contract No: **C21-38**
Drawing Date: 7/8/2021
Scale: 1/8"=1'-0"
Drawn By: DS
Approval By: CITY OF CORCORAN
SHEET NO. 1 of 2



BAR JOIST

(A) BUILDING SECTION
SCALE= 1/8" : 1'-0"



OVERHEAD FIRE SPRINKLER PLAN
SCALE = 1/8" : 1'-0"



Drawing Title:	FIRE PROTECTION PLAN
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**NELSON
INTERNATIONAL**
10409 COUNTY ROAD 101
CORCORAN, MN 55374

Contract No.	C21-38
Drawing Date:	7/8/2021
Scale:	1/8" = 1'-0"
Drawn By:	DS
Approval By:	CITY OF CORCORAN
SHEET NO.	2 of 2