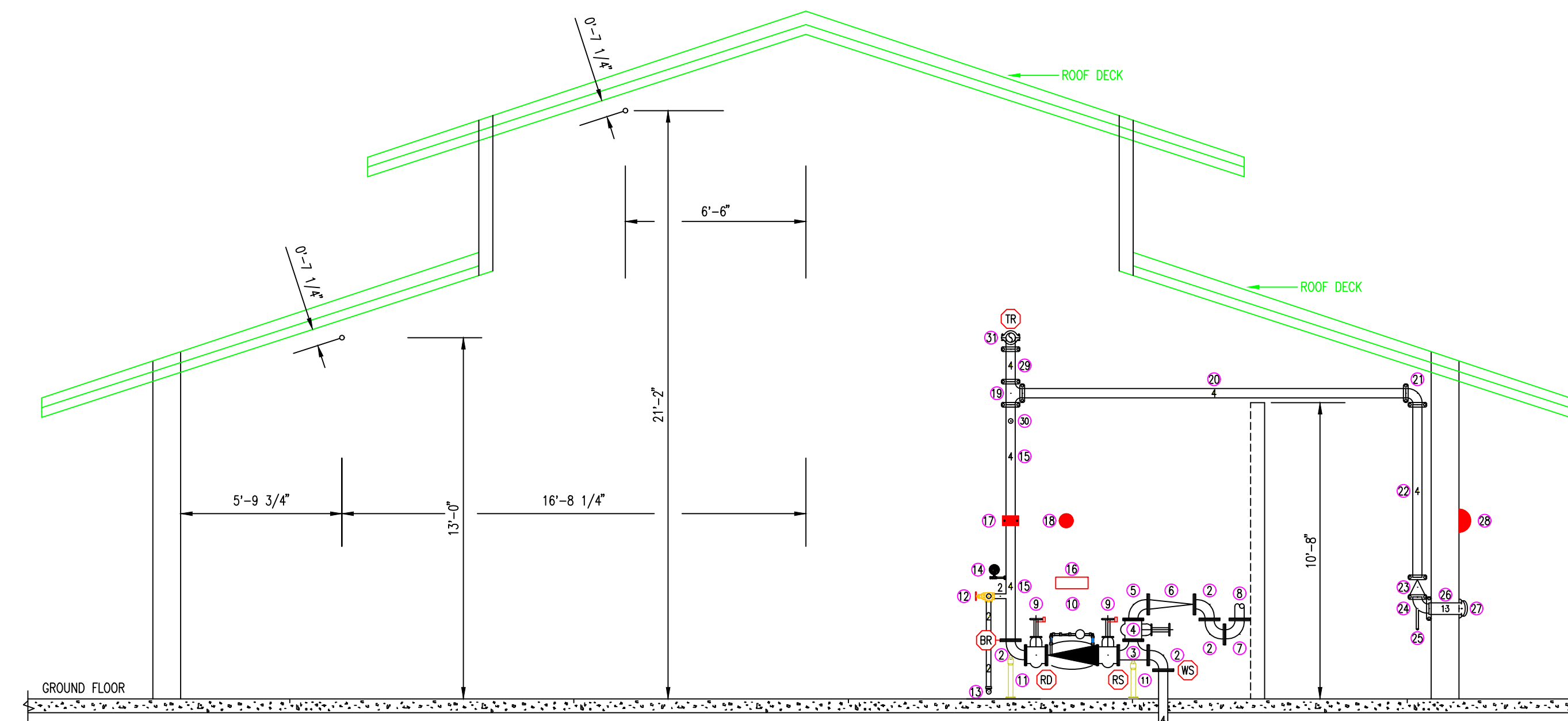


EXISTING RISER SECTION LEGEND

- 1 EXISTING 4" UNDERGROUND WATER SERVICE
- 2 4" FLANGED 90° ELBOW
- 3 4" x 4" x 4" FLANGED TEE
- 4 EXISTING 4" DOMESTIC CONTROL VALVE REMOVED AND RELOCATED
- 5 EXISTING 4" DOMESTIC FLANGED 90° ELBOW REMOVED AND RELOCATED
- 6 EXISTING 4" DOMESTIC BACKFLOW REMOVED AND RELOCATED
- 7 EXISTING 4" DOMESTIC FLANGED 90° ELBOW
- 8 EXISTING 4" DOMESTIC
- 9 4" FLANGED O S & Y VALVE WITH TAMPER SWITCH
- 10 4" FLANGED DOUBLE CHECK DETECTOR BACKFLOW WITH METER BY-PASS IN GALLONS AMES SERIES 3000SS - VERTICAL OR HORIZONTAL INSTALLATION
- 11 2" PIPE SUPPORT
- 12 2" MAIN DRAIN VALVE
- 13 PIPE 2" MAIN DRAIN DISCHARGE TO APPROVED DRAIN
- 14 WATER PRESSURE GAUGE
- 15 4" x 8"-10" GROOVED RISER
- 16 6 COUNT SPARE SPRINKLER HEADS BOX
- 17 4" WATER FLOW SWITCH
- 18 6" INSIDE ALARM BELL
- 19 4" x 4" x 4" GROOVED TEE
- 20 4" x 14"-7" GROOVED PIPE
- 21 4" GROOVED 90° ELBOW
- 22 4" x 6"-7" GROOVED PIPE
- 23 4" GROOVED SWING CHECK VALVE
- 24 4" x 1" x 4" GROOVED DRAIN 90° ELBOW
- 25 1" BALL DRIP
- 26 4" x 1'-24" GROOVED PIPE
- 27 5" x 4" STORZ FIRE DEPT. CONN.
- 27 2 1/2" x 2 1/2" x 4" FIRE DEPT. CONN.
- 28 10" OUTSIDE ALARM BELL
- 29 4" x 2'-0" GROOVED PIPE
- 30 2" OUT TO LOWER LEVEL SPRINKLERS
- 31 4" GROOVED 90° ELBOW IN TO BLDG. SPRINKLER SYSTEM

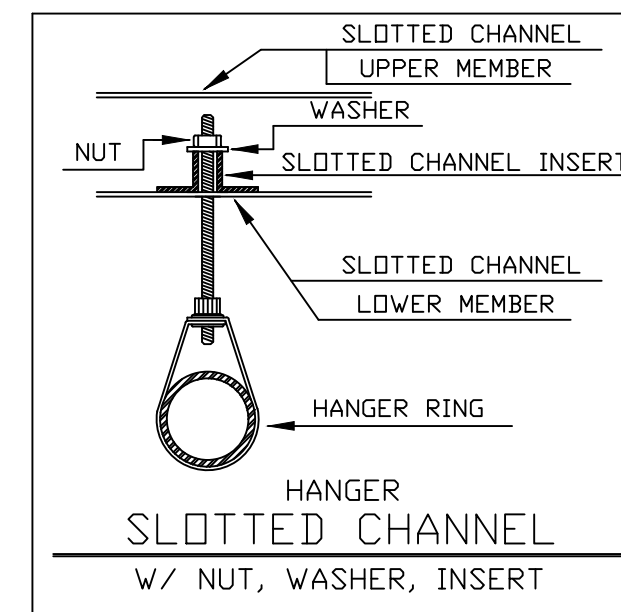
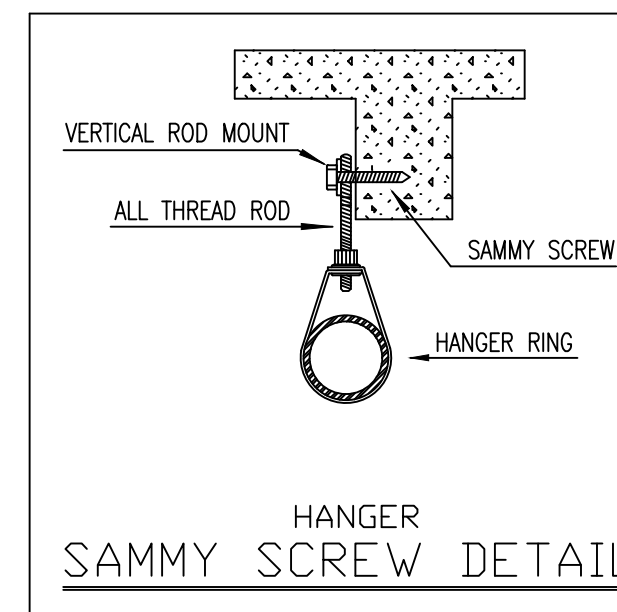


FILTER BUILDING AND
SPRINKLER VALVE ROOM RISER SECTION A-A

1/4"=1'-0"

HANGER NOTE

ALL HANGERS TO BE SAMMY SCREWS, & SLOTTED CHANNEL COMPLETE WITH ALL THREAD ROD, ROD COUPLINGS, INSERTS, NUTS, WASHERS, AND AUTO-GRIP RING; SPACED, SIZED, & INSTALLED IN ACCORDANCE WITH NFPA #13 AND THE HOFFMAN ESTATES CITY CODE.
Pipe hangers shall be installed as required by NFPA for supporting sprinkler piping, unless the hanger has been specifically designed for the additional loading. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURE



GENERAL NOTES & SYMBOLS

- SYMBOL DESCRIPTION
- ALL ELEVATIONS TAKEN ABOVE CHAPEL GROUND FLOOR
- +0-0 Elevation from Floor to Centerline of Pipe
- 0-0 Elevation from Bottom of Deck to Centerline of Pipe
- 1 Hydraulic Reference Point
- AREA #1 HYDRAULIC CALC. NOTE: AREA OF OPERATION = 1723 SQ. FT., DENSITY = 0.20 GPM/SQ. FT., K-FACTOR = 5.6, HOSE ALLOWANCE = 250 GPM. HYDRAULIC CALCULATION INFORMATION NOTE: INFORMATION FOR EACH SPECIFIC REMOTE AREA
- SOLID LINE REPRESENTS NEW SPRINKLER PIPING, HEADS, AND EQUIPMENT
- N NEW
- EX EXISTING
- GG GROOVE-GROOVE
- FV FIELD VERIFY
- FM FIELD MEASURE
- FDC FIRE DEPARTMENT CONNECTION
- THIS EXISTING BUILDING CONSISTS OF THE FOLLOWING:
CONCRETE FLOORS
BLOCK AND DRYWALL WALLS
WOOD DECK, BEAMS, TRUSSES
- 2 THIS NOTATION REPRESENTS THE SIZE OF SPRINKLER PIPE WITH THE ASSOCIATED CENTER TO CENTER CUT LENGTH

PIPE MATERIALS

All pipe to be black steel, with black cast/malleable iron fittings with joints as per NFPA.
Pipe shall be as per the following schedule - (unless noted otherwise)
New Line Piping - 2" and smaller Schedule 40.
New X-Main Piping - 2 1/2" and larger - Schedule 10.

SYSTEM DESIGN

Maximum sprinkler head spacing - 130 sq. ft. per head in any ordinary hazard occupancy area
Maximum sprinkler head spacing - 225 sq. ft. per head in any light hazard occupancy area

WATER FLOW TEST

DATE 06-09-16 TIME 2:30 PM
STATIC 54 PSI
RESIDUAL 51 PSI
FLOW 888 GPM
LOCATION JOBSITE
SOURCE SCOTT NEIL & JAY SINGH

SCOPE OF WORK

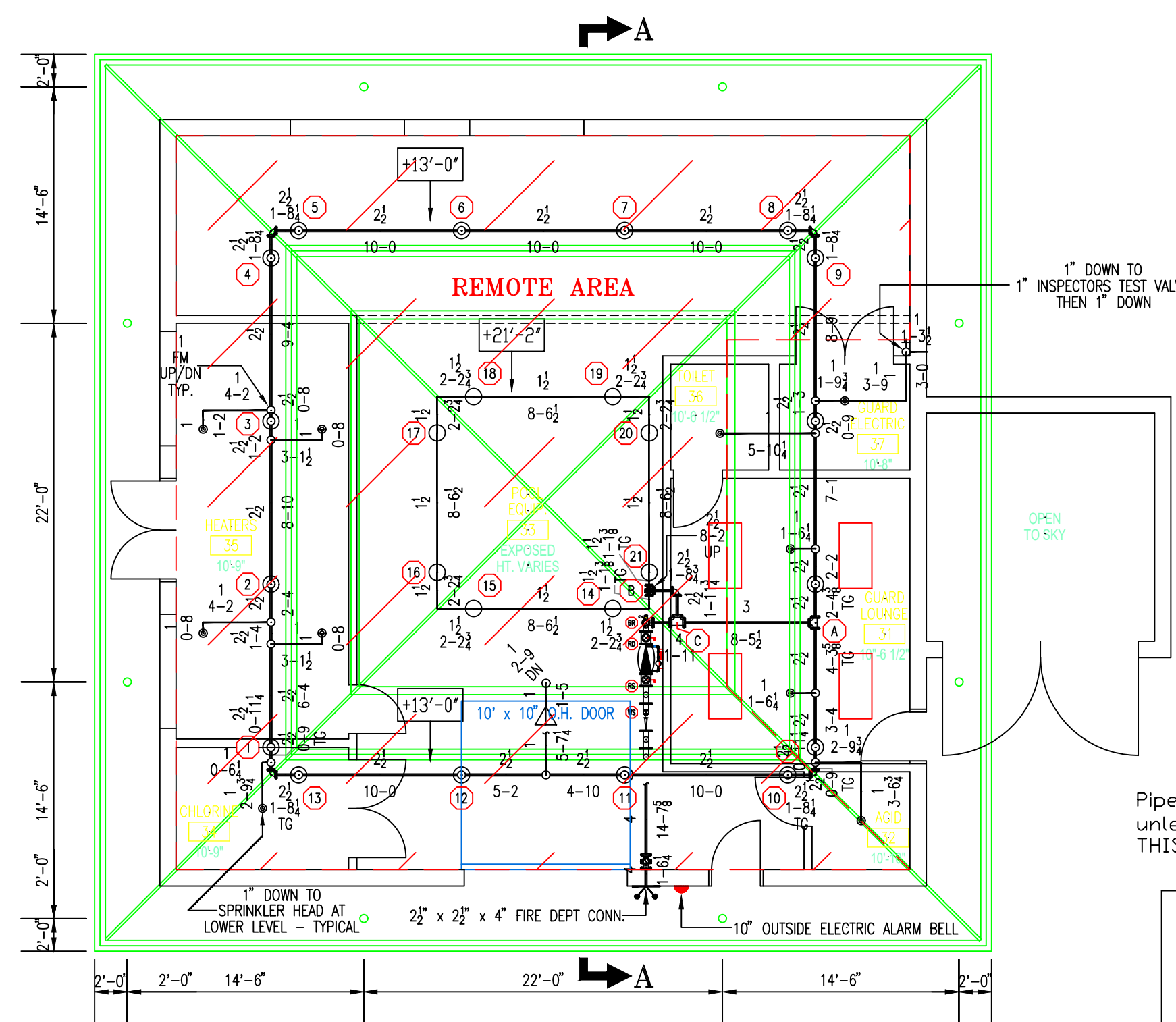
THIS IS AN EXISTING BUILDING AND SHALL BE EQUIPPED WITH A NEW AUTOMATIC SPRINKLER SYSTEM. THE OCCUPANCY OF THIS EXISTING BUILDING IS A FILTER BUILDING FOR THE PARK DISTRICT OUTSIDE PUBLIC SWIMMING POOLS. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ALL AREAS OF THIS EXISTING BUILDING. THE NEW AUTOMATIC SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS A WET PIPE AUTOMATIC SPRINKLER SYSTEM.

ALL DESIGN SHALL FOLLOW THE HOFFMAN ESTATES CITY CODE AND NFPA #13.

ALL SPRINKLER HEADS UL/FM LISTED/APPROVED, RESPECTIVELY

HOFFMAN ESTATES FIRE DEPARTMENT

APPROVAL STAMP AREA

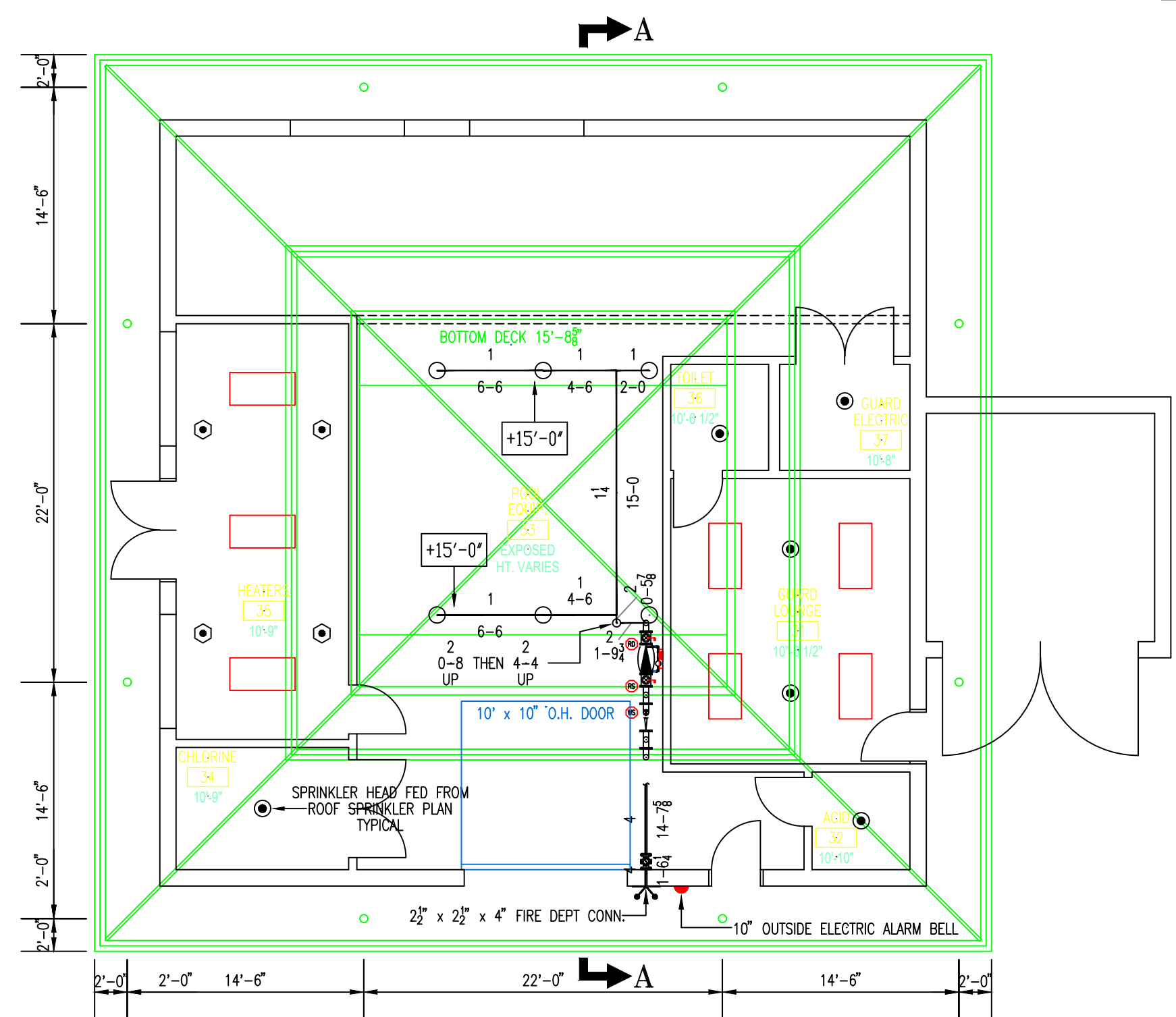


HYDRAULIC CALC. NOTE
AREA OF OPERATION = 1723 SQ. FT.
DENSITY = 0.20 GPM/SQ. FT.
K-FACTOR = 5.6
HOSE ALLOWANCE = 250 GPM

1/8"=1'-0"

North

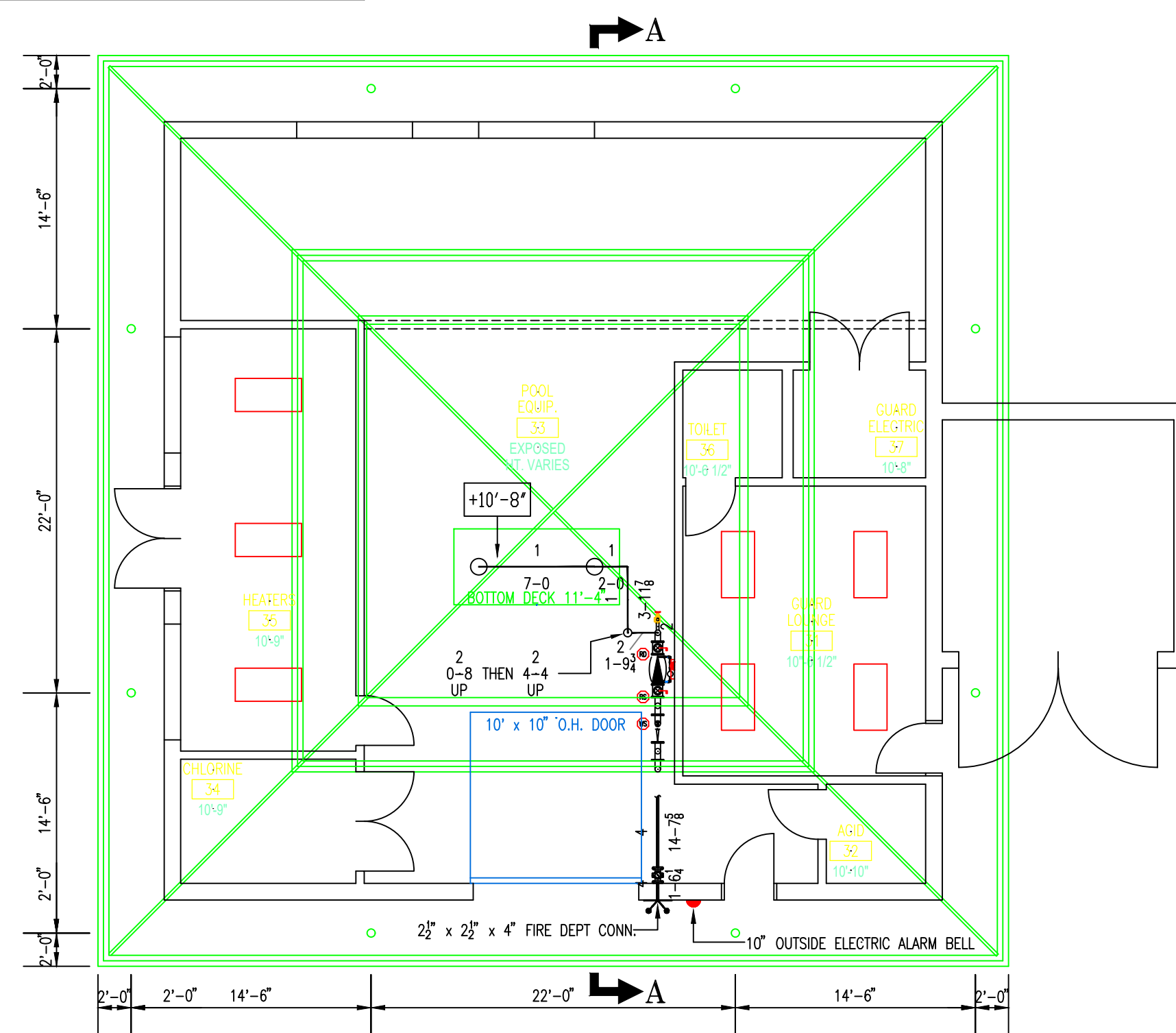
Filter Building
ROOF SPRINKLER PLAN



1/8"=1'-0"

North

Filter Building
LOWER LEVEL 1
SPRINKLER PLAN



1/8"=1'-0"

North

Filter Building
LOWER LEVEL 2
SPRINKLER PLAN

REVISIONS		SPRINKLER SYMBOL DESCRIPTION						
SYMBOL	SIZE	STYLE	MAKE	FINISH	MODEL	TEMP	K-FACTOR	TOTAL
○	1/2	UPRIGHT	TYCO QR	PAINTED	TY-FRB TY3151	155°	5.6	32
●	1/2	RECESSED	TYCO QR	PAINTED	TY-FRB TY3231	155°	5.6	6
⊙	1/2	PENDENT	TYCO QR	CHROME	DS-1 TY3235	155°	5.6	4
◁	1/2	HORIZ SDWL	TYCO QR	BRASS	TY-FRB TY3331	155°	5.6	1
TOTAL SPRINKLERS SHOWN ON THIS SHEET								43
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT								158

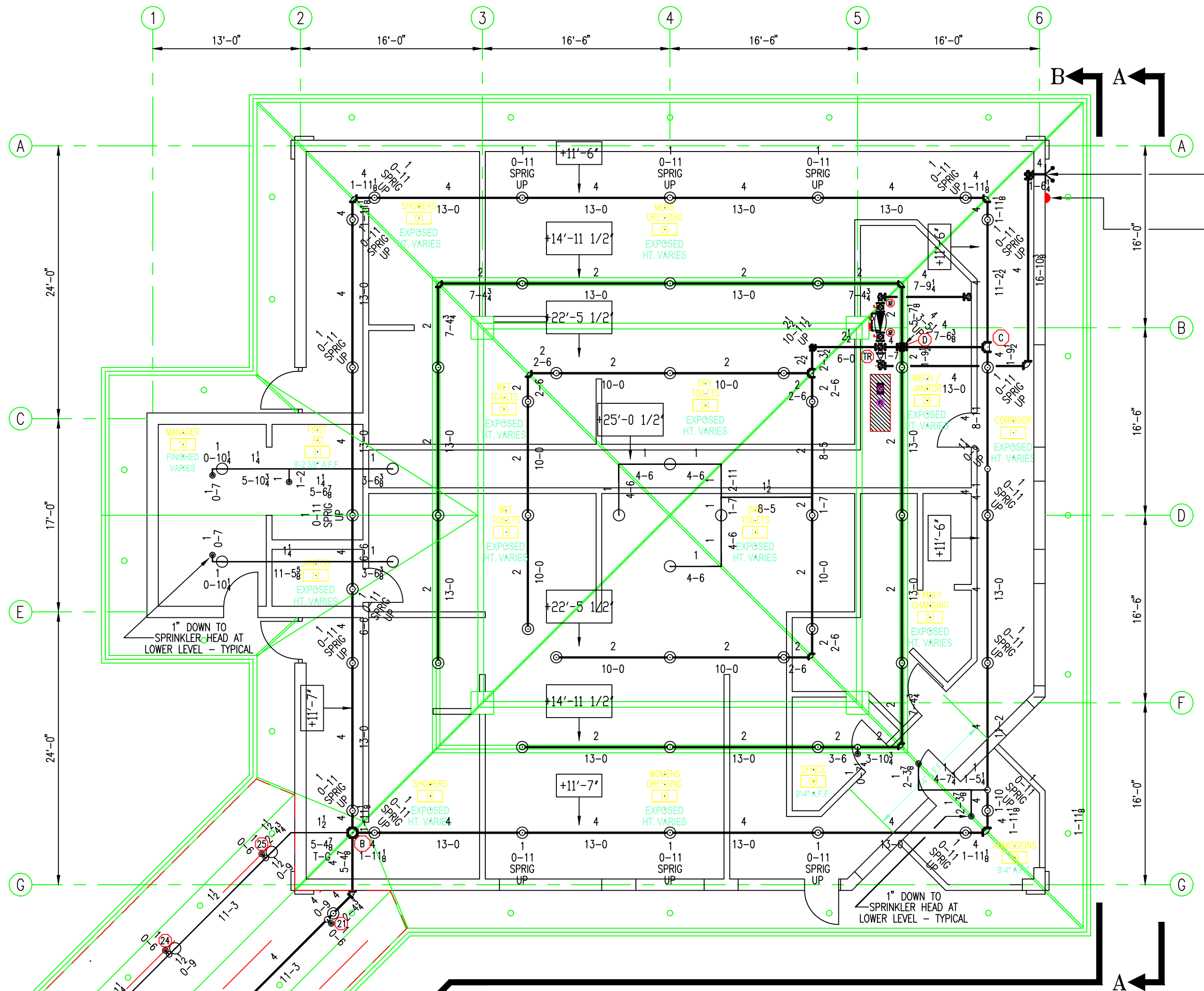
OLYMPIC ENGINEERING P.C.
719 UTAH CIRCLE
ELK GROVE VILLAGE, ILLINOIS 60007
OFFICE 847-524-3080 FAX 847-524-3233

PROJECT
HOFFMAN ESTATES PARK DISTRICT
POPLAR CREEK AQUATIC CENTER
MOONLAKE BLVD. AT VOLID DRIVE
HOFFMAN ESTATES, ILLINOIS 60195

FILTER BUILDING SPRINKLER PLAN

Date: 07-18-2016
Scale: AS NOTED
Job No.
Drawn By: ML
Sheet No.: FP 1 OF 3

OLYMPIC ENGINEERING, PC
719 Utah Circle
Elk Grove Village, IL 60007
(847) 524-3080



2 1/2" x 2 1/2" x 4" FIRE DEPARTMENT CONNECTION
OWNER TO CLEAR AREA OF SHRUBB AND
ALL OTHER OBSTRUCTION FOR CLEAR
ACCESS TO
2 1/2" x 2 1/2" x 4" FIRE DEPT. CONN.
10" OUTSIDE ELECTRIC ALARM BELL

HYDRAULIC CALC. NOTE
AREA OF OPERATION = 1975 SQ. FT.
DENSITY = 0.20 GPM/SQ. FT.
K-FACTOR = 5.6
HOSE ALLOWANCE = 250 GPM

GENERAL NOTES & SYMBOLS

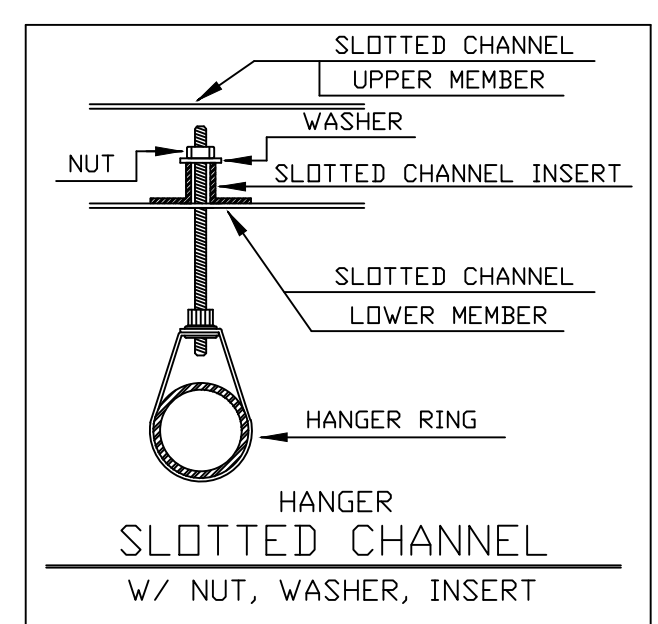
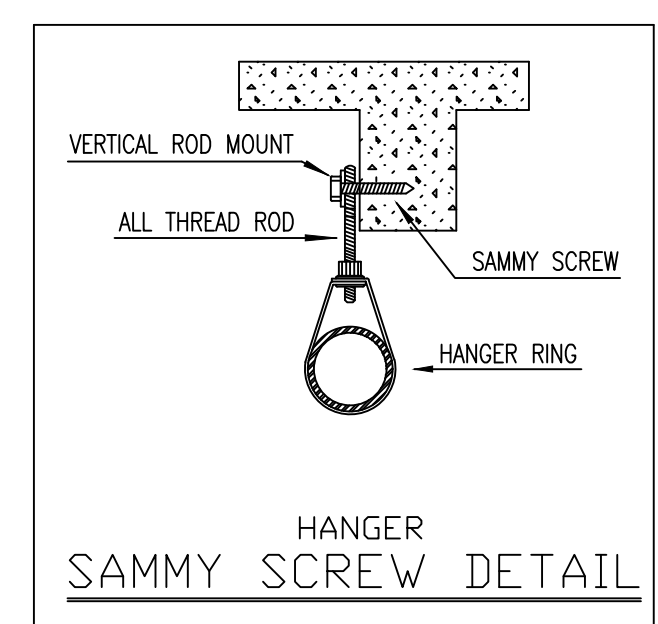
SYMBOL	DESCRIPTION
+0-0	Elevation from Floor to Centerline of Pipe
-0-0	Elevation from Bottom of Deck to Centerline of Pipe
①	Hydraulic Reference Point
①	AREA #1
HYDRAULIC CALC. NOTE	HYDRAULIC CALCULATION INFORMATION NOTE INFORMATION FOR EACH SPECIFIC REMOTE AREA
—	SOLID LINE REPRESENTS NEW SPRINKLER PIPING, HEADS, AND EQUIPMENT
N	NEW
EX	EXISTING
GG	GROOVE-GROOVE
FV	FIELD VERIFY
FM	FIELD MEASURE
FDC	FIRE DEPARTMENT CONNECTION
⊙	CEILING FAN
THIS EXISTING BUILDING CONSISTS OF THE FOLLOWING: CONCRETE FLOORS BLOCK AND DRYWALL WALLS WOOD DECK, BEAMS, TRUSSES	
2 1/2	THIS NOTATION REPRESENTS THE SIZE OF SPRINKLER PIPE WITH THE ASSOCIATED CENTER TO CENTER CUT LENGTH
3-6	ALL SPRINKLER PIPING AND FITTINGS TO BE GALVANIZED

**BATHHOUSE BUILDING
ROOF SPRINKLER PLAN**
1/8"=1'-0"



HANGER NOTE

ALL HANGERS TO BE SAMMY SCREWS, & SLOTTED CHANNEL COMPLETE WITH ALL THREAD ROD, ROD COUPLINGS, INSERTS, NUTS, WASHERS, AND AUTO-GRIP RING; SPACED, SIZED, & INSTALLED IN ACCORDANCE WITH NFPA #13 AND THE HOFFMAN ESTATES CITY CODE.
Pipe hangers shall be installed as required by NFPA for supporting sprinkler piping, unless the hanger has been specifically designed for the additional loading. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURE



PIPE MATERIALS

All pipe to be galvanized with galvanized fittings with joints as per NFPA. Pipe shall be as per the following schedule - (unless noted otherwise)
New Line Piping - 2" and smaller Schedule 40 galvanized.
New X-Main Piping - 2 1/2" and larger - Schedule 10 galvanized.

SYSTEM DESIGN

Maximum sprinkler head spacing - 130 sq. ft. per head in any ordinary hazard occupancy area
Maximum sprinkler head spacing - 225 sq. ft. per head in any light hazard occupancy area

WATER FLOW TEST

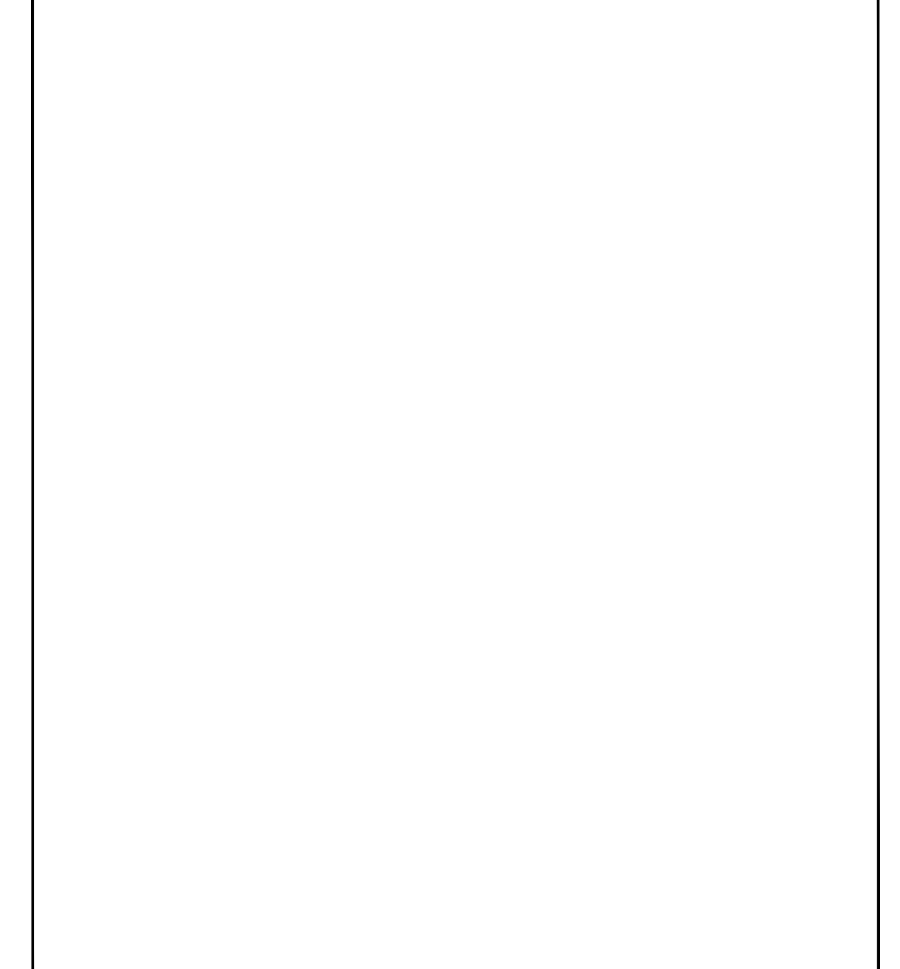
DATE	06-09-16	TIME	2:30 PM
STATIC	54 PSI		
RESIDUAL	51 PSI		
FLOW	888 GPM		
LOCATION	JOB SITE		
SOURCE	SCOTT NEIL & JAY SINGH		

SCOPE OF WORK

THESE ARE 2 EXISTING BUILDINGS WITH AN EXISTING OUTDOOR CONNECTING CANOPY. BOTH EXISTING BUILDINGS AND EXISTING CANOPY SHALL BE EQUIPPED WITH A NEW AUTOMATIC SPRINKLER SYSTEM. THE OCCUPANCY OF THESE 2 EXISTING BUILDINGS ARE A CONCESSION AND A BATH HOUSE FOR THE PARK DISTRICT OUTSIDE PUBLIC SWIMMING POOLS. NEW AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ALL AREAS OF THESE EXISTING BUILDINGS. THE NEW AUTOMATIC SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS A DRY PIPE AUTOMATIC SPRINKLER SYSTEM.
ALL DESIGN SHALL FOLLOW THE HOFFMAN ESTATES CITY CODE AND NFPA #13.

ALL SPRINKLER HEADS UL/FM LISTED/APPROVED, RESPECTIVELY

**HOFFMAN ESTATES FIRE DEPARTMENT
APPROVAL STAMP AREA**



**CONCESSION BUILDING
ROOF SPRINKLER PLAN**
1/8"=1'-0"



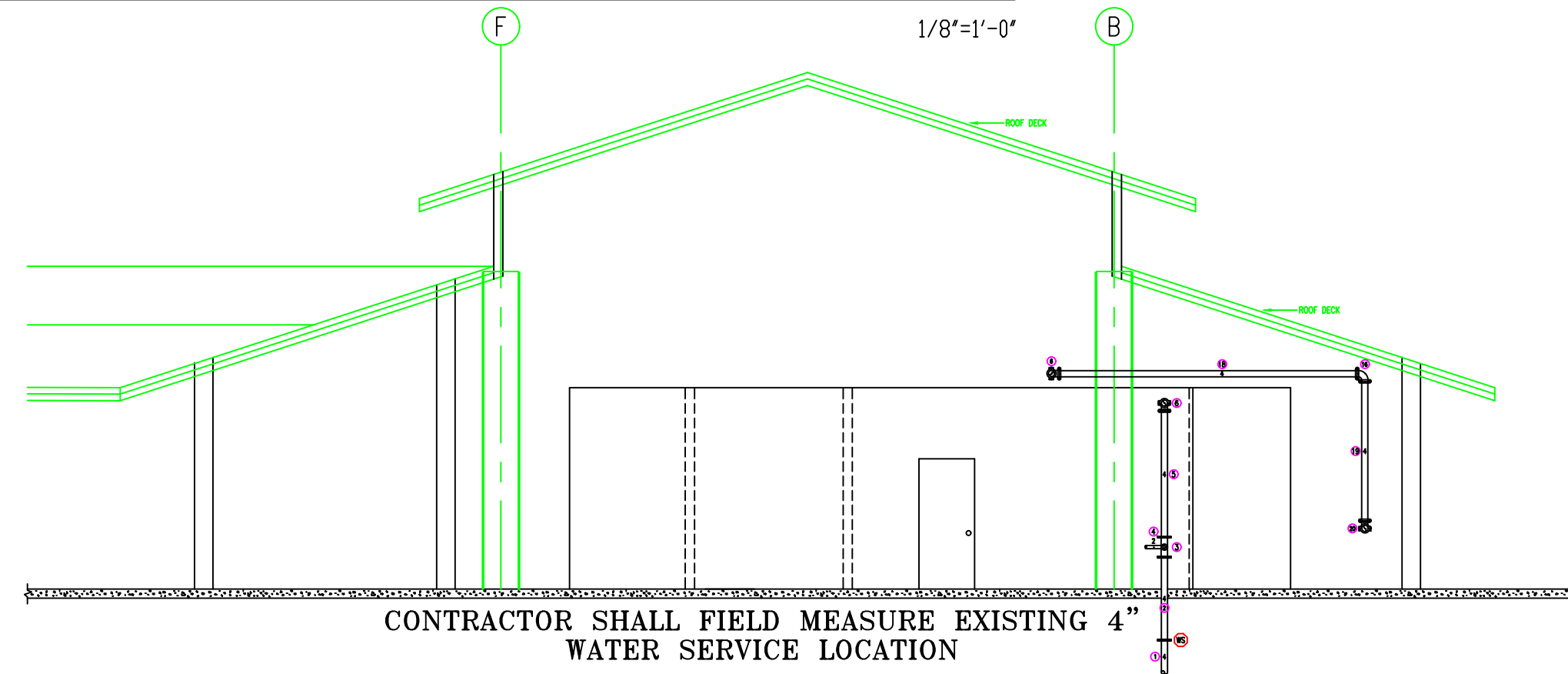
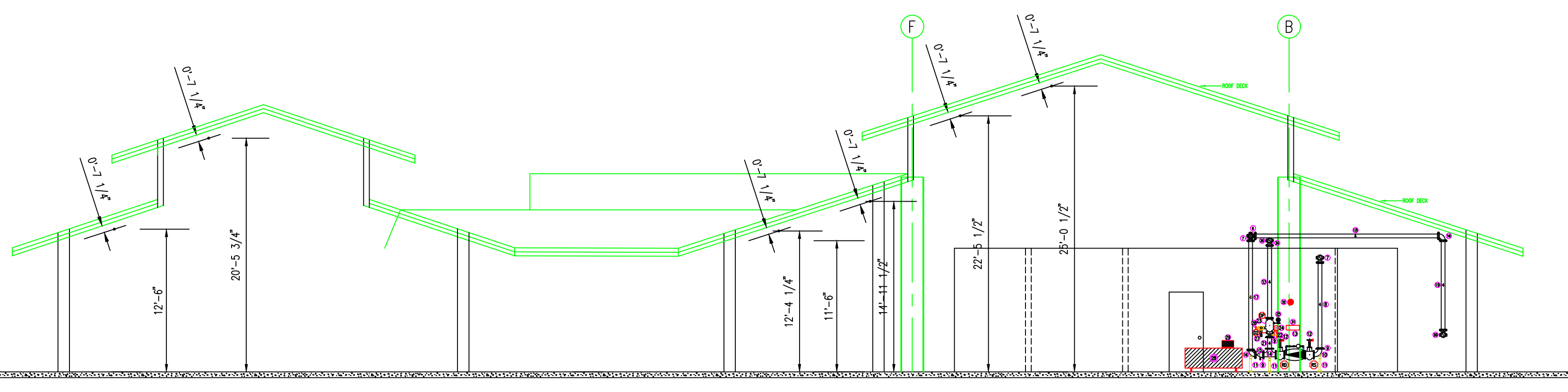
REVISIONS	SYMBOL	SIZE	STYLE	MAKE	FINISH	MODEL	TEMP	K-FACTOR	TOTAL
	○	1/2	UPRIGHT	TYCO QR	BRASS	TY-FRB TY3131	155°	5.6	81
TOTAL SPRINKLERS SHOWN ON THIS SHEET									81
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									158

OLYMPIC ENGINEERING P.C.
719 UTAH CIRCLE
ELK GROVE VILLAGE, ILLINOIS 60007
OFFICE 847-524-3080 FAX 847-524-3233

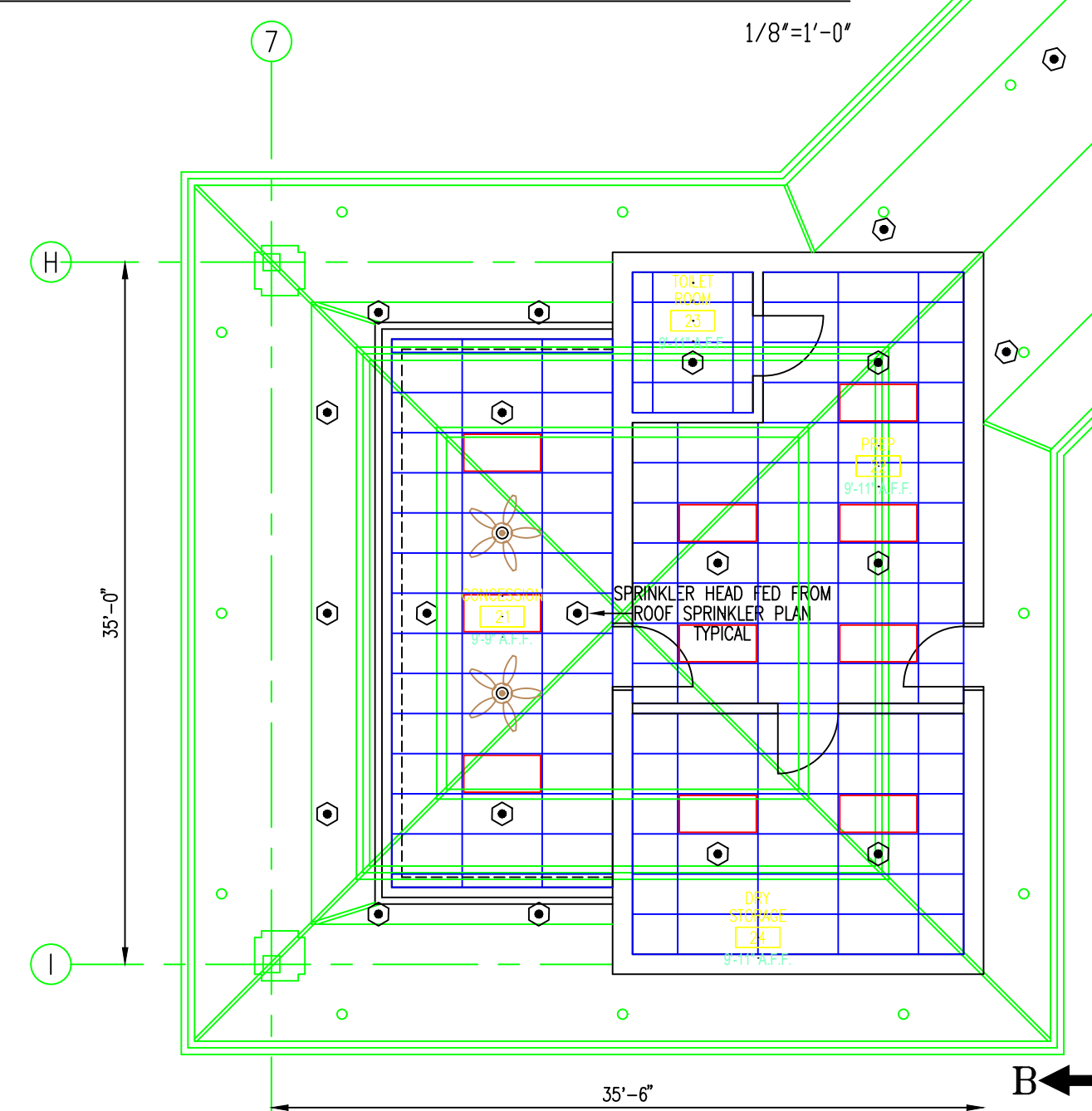
PROJECT HOFFMAN ESTATES PARK DISTRICT POPLAR CREEK AQUATIC CENTER MOONLAKE BLVD. AT VOLID DRIVE HOFFMAN ESTATES, ILLINOIS 60195	Date : 07-18-2016
CONCESSION BLDG. & BATHHOUSE BLDG. ROOF SPRINKLER PLAN	Scale: AS NOTED
	Job No.
	Drawn By ML
	Sheet No. FP 2 OF 3

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(847) 524-3080

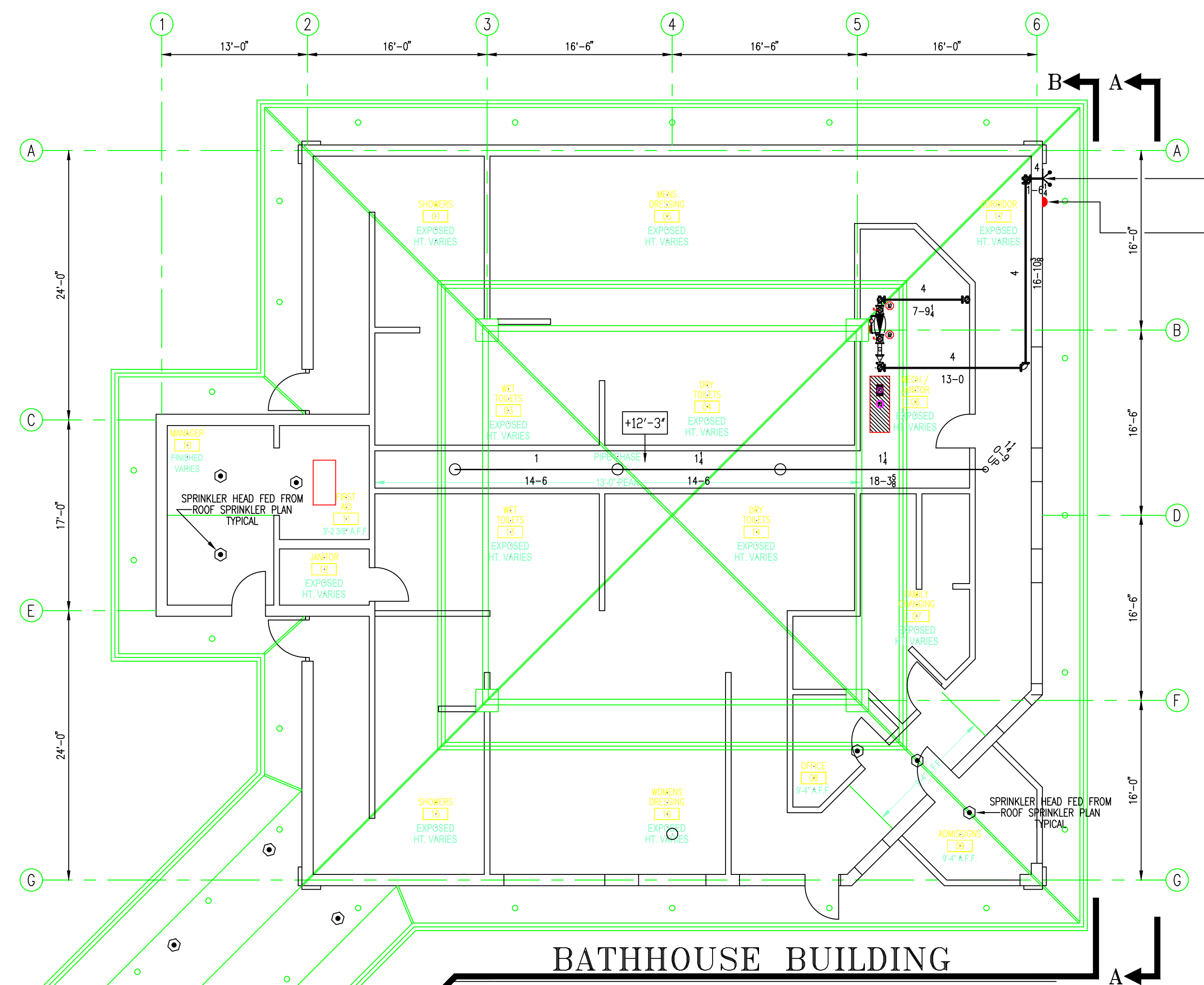
CONCESSION BUILDING, BATHHOUSE BUILDING, &
 DRY PIPE SPRINKLER VALVE ROOM SECTION B-B



DRY PIPE SPRINKLER VALVE ROOM SECTION A-A
 EXISTING WATER SERVICE SECTION A-A



CONCESSION BUILDING
 LOWER CEILING
 SPRINKLER PLAN



BATHHOUSE BUILDING
 LOWER CEILING
 ROOF BUILDING SPRINKLER PLAN

WATER FLOW TEST

DATE	06-09-16	TIME	2:30 PM
STATIC	54 PSI		
RESIDUAL	51 PSI		
FLOW	888 GPM		
LOCATION	JOB SITE		
SOURCE	SCOTT NEIL & JAY SINGH		

SCOPE OF WORK

THESE ARE 2 EXISTING BUILDINGS WITH AN EXISTING OUTDOOR CONNECTING CANOPY. BOTH EXISTING BUILDINGS AND EXISTING CANOPY SHALL BE EQUIPPED WITH A NEW AUTOMATIC SPRINKLER SYSTEM. THE OCCUPANCY OF THESE 2 EXISTING BUILDINGS ARE A CONCESSION AND A BATH HOUSE FOR THE PARK DISTRICT OUTSIDE PUBLIC SWIMMING POOLS. NEW AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ALL AREAS OF THESE EXISTING BUILDINGS. THE NEW AUTOMATIC SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED AS A DRY PIPE AUTOMATIC SPRINKLER SYSTEM.

ALL DESIGN SHALL FOLLOW THE HOFFMAN ESTATES CITY CODE AND NFPA #13.

HOFFMAN ESTATES FIRE DEPARTMENT
 APPROVAL STAMP AREA

- EXISTING RISER SECTION LEGEND**
- 1 EXISTING 4" UNDERGROUND WATER SERVICE
 - 2 4" x 5'-0" FLANGED SPOOL & NECESSARY FITTINGS, FIELD VERIFIED
 - 3 4" x 4" x 4" FLANGED TEE
 - 4 EXISTING 2" DOMESTIC
 - 5 4" x 7'-2 1/2" FLANGED-GROOVED SPOOL
 - 6 4" GROOVED 90° ELBOW IN
 - 7 4" GROOVED 90° ELBOW OUT
 - 8 4" x 8'-6" FLANGED SPOOL
 - 9 4" x 9" GROOVE-FLANGE
 - 10 4" FLANGED 90° ELBOW
 - 11 2" PIPE SUPPORT
 - 12 4" FLANGED O S & Y VALVE WITH TAMPER SWITCH
 - 13 4" FLANGED DOUBLE CHECK DETECTOR BACKFLOW WITH METER BY-PASS IN GALLONS AMES SERIES 3000SS - VERTICAL OR HORIZONTAL INSTALLATION
 - 14 4" x 4" x 4" FLANGED TEE
 - 15 4" GROOVED SWING CHECK VALVE WITH BALL DRIP
 - 16 4" GROOVED 90° ELBOW
 - 17 4" x 10'-5" GROOVED SPOOL
 - 18 4" x 16'-10 1/2" GROOVED SPOOL
 - 19 4" x 8'-8" GROOVED SPOOL
 - 20 4" GROOVED 90° ELBOW OUT - TO 2 1/2" x 2 1/2" x 4" FIRE DEPT. CONN.
 - 21 4" x 1'-0" FLANGED SPOOL
 - 22 4" GROOVED CONTROL VALVE WITH TAMPER-PROOF SWITCH
 - 23 4" GROOVED DRY PIPE VALVE WITH ALL TRIM & ACCESSORIES - FIRELOCK NXT DRY VALVE SERIES 768
 - 24 4" ALARM PRESSURE SWITCH
 - 25 WATER PRESSURE GAUGE
 - 26 2" MAIN DRAIN VALVE
 - 27 PIPE 2" MAIN DRAIN DISCHARGE TO ADEQUATE APPROVED DRAIN
 - 28 AIR TANK
 - 29 TANK MOUNTED AIR COMPRESSOR
 - 30 NEW DRY SYSTEM CAPACITY = 00 GALLONS
 - 31 6 COUNT SPARE SPRINKLER HEADS BOX
 - 32 6" INSIDE ALARM BELL
 - 33 4" x 6'-9 3/4" GROOVED RISER
 - 34 4" x 4" x 4" GROOVED TEE
 - 35 2 1/2" IN TO BLDG. SPRINKLER SYSTEM
 - 36 4" OUT TO BLDG. SPRINKLER SYSTEM

REVISIONS	SPRINKLER SYMBOL DESCRIPTION								
	SYMBOL	SIZE	STYLE	MAKE	FINISH	MODEL	TEMP	K-FACTOR	TOTAL
	○	1/2	UPRIGHT	TYCO	BRASS	TY-FRB	155°	5.6	3
	⊙	1/2	PENDENT	TYCO	CHROME	DS-1 TY3235	155°	5.6	31
TOTAL SPRINKLERS SHOWN ON THIS SHEET									34
TOTAL SPRINKLERS REQUIRED ON THIS CONTRACT									158

OLYMPIC ENGINEERING P.C.
 719 UTAH CIRCLE
 ELK GROVE VILLAGE, ILLINOIS 60007
 OFFICE 847-524-3080 FAX 847-524-3233

PROJECT
 HOFFMAN ESTATES PARK DISTRICT
 POPLAR CREEK AQUATIC CENTER
 MOONLAKE BLVD. AT VOLID DRIVE
 HOFFMAN ESTATES, ILLINOIS 60195

CONCESSION BLDG. & BATHHOUSE BLDG.
 LOWER CEILING SPRINKLER PLAN

Date : 07-18-2016
 Scale: AS NOTED
 Job No.
 Drawn By ML
 Sheet No. FP 3 OF 3

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 Elk Grove Village, IL 60007
 (847) 524-3080