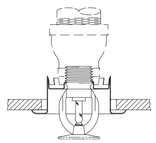
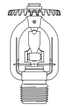
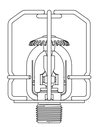


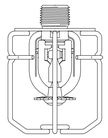
1 RECESSED PENDENT SPRINKLER
NOT TO SCALE



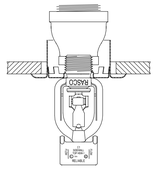
2 UPRIGHT SPRINKLER
NOT TO SCALE



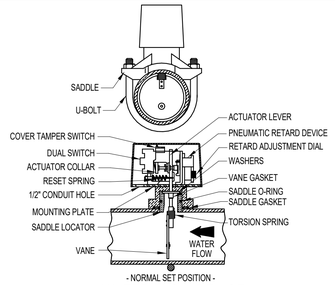
3 UPRIGHT SPRINKLER W/ HEAD GUARD
NOT TO SCALE



4 PENDENT SPRINKLER W/ HEAD GUARD
NOT TO SCALE



5 SIDEWALL SPRINKLER
NOT TO SCALE



- NORMAL SET POSITION -

6 WATER FLOW DEVICE
NOT TO SCALE

HYDRAULIC-SYSTEM

THIS BUILDING IS PROTECTED

BY A HYDRAULICALLY DESIGNED

AUTOMATIC SPRINKLER SYSTEM

LOCATION

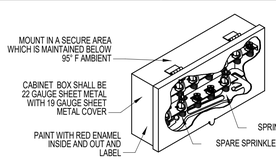
NO. OF SPRINKLERS

BASIS OF DESIGN
1. DENSITY — GPM SQ FT
2. DESIGNED AREA OF DISCHARGE — SQ FT

SYSTEM DEMAND
1. GPM DISCHARGE — GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER — PSI

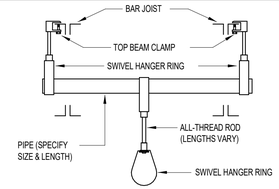
NOTE:
HYDRAULIC SYSTEM PLATE SHALL BE LOCATED AS TO BE HIGHLY VISIBLE ON EACH SYSTEM RISER.

7 HYDRAULIC SYSTEM SIGN DETAIL
NOT TO SCALE

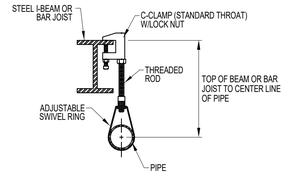


FACILITIES HAVING UNDER 300 SPRINKLERS - NO FEWER THAN 6 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING 300 - 1000 SPRINKLERS - NO FEWER THAN 12 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING OVER 1000 SPRINKLERS - NO FEWER THAN 24 SPARE SPRINKLERS IN STOCK
LOCATE IN CUSTODIAL EQUIPMENT STORAGE 01-141

8 FIRE SPRINKLER SPARE CABINET
NOT TO SCALE



9 TRAPEZE HANGER DETAIL
NOT TO SCALE



10 HANGER DETAIL
NOT TO SCALE

9.1.2 HANGER RODS.

9.1.2.1 UNLESS THE REQUIREMENTS OF 9.1.2.2 ARE MET, HANGER ROD SIZE SHALL BE THE SAME AS THAT APPROVED FOR USE WITH THE HANGER ASSEMBLY, AND THE SIZE OF RODS SHALL NOT BE LESS THAN THAT GIVEN IN TABLE 9.1.2.1.

Table 9.1.2.1 Hanger Rod Sizes

Diameter of Rod		
Pipe Size	in.	mm
Up to and including 4 in.	3/8	9.5
5 in., 6 in., and ø8 in.	1/2	12.7
10 in, and 12 in.	5/8	15.9

9.1.3.10 MINIMUM BOLT SIZE FOR CONCRETE.

9.1.3.10.1 THE SIZE OF A BOLT USED WITH A HANGER AND INSTALLED THROUGH CONCRETE SHALL NOT BE LESS THAN SPECIFIED IN TABLE 9.1.3.10.1.

Table 9.1.3.10.1 Minimum Bolt Size for Concrete

Size of Bolt		
Pipe Size	in.	mm
Up to and including 4 in.	3/8	9.5
5 in. to 8 in.	1/2	12.7
10 in.	5/8	15.9
12 in.	3/4	19.1

9.2.2* MAXIMUM DISTANCE BETWEEN HANGERS.

9.2.2.1 THE MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED THAT SPECIFIED IN TABLE 9.2.2.1

TABLE 9.2.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN)

DISTANCE BETWEEN HANGERS												
Nominal Pipe Size (in.)	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
Steel pipe except threaded lightwall	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
Threaded lightwgll steel pipe	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A

9.2.3.2 MINIMUM NUMBER HANGERS

9.2.3.2.1 UNLESS THE REQUIREMENTS OF 9.2.3.2.2 OR 9.2.3.2.3 ARE MET, THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH SECTION OF PIPE.

9.2.3.2.2* WHERE SPRINKLERS ARE SPACED LESS THAN 6 FT (1.8 M) APART, HANGERS SPACED UP TO MAXIMUM OF 12 FT (3.7 M) SHALL BE PERMITTED.

9.2.3.2.3 STARTED LENGTHS LESS THAN 6 FT (1.8 M) SHALL NOT REQUIRE A HANGER, UNLESS ON THE END LINE OF A SIDEFEED SYSTEM OR WHERE AN INTERMEDIATE CROSS MAIN HANGER HAS BEEN OMITTED.

9.2.3.3 CLEARANCE TO HANGERS. THE DISTANCE BETWEEN A HANGER AND THE CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN 3 IN. (76 MM).

9.2.3.4* UNSUPPORTED LENGTHS.

9.2.3.4.1* THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT BE GREATER THAN 36 IN. (0.9 M) FOR 1-IN. PIPE, 48 IN. (1.2 M) FOR 1 1/4-IN. PIPE, AND 60 IN. (1.5 M) FOR 1 1/2-IN. OR LARGER PIPE.

9.2.3.4.2 WHERE THE LIMITS OF 9.2.3.4.1 ARE EXCEEDED, THE PIPE SHALL BE EXTENDED BEYOND THE END SPRINKLER AND SHALL BE SUPPORTED BY AN ADDITIONAL HANGER.

9.2.3.5 THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARM OVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24 IN. (610 MM) FOR STEEL PIPE OR 12 IN. (305 MM) FOR COPPER TUBE.

11 HANGER SPACING DETAIL
NOT TO SCALE

PROJECT INFORMATION

1. REFER TO SPECIFICATIONS FOR THIS DISCIPLINE.
2. WORKING PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE AUTHORITY HAVING JURISDICTION BEFORE ANY EQUIPMENT IS INSTALLED.
3. PENDENT SPRINKLERS SHALL BE INSTALLED IN ALL AREAS WITH LAY-IN CEILINGS, SPRINKLER SHALL BE LOCATED IN CENTER TILE. WHEN 2'x4' TILES ARE INSTALLED, TREAT TILE AS 2'x2' AND INSTALL CENTER OF TILE.
4. SPRINKLER HEADS IN AREAS WITH NO CEILING (NO TILES OR GYPSUM BOARD) SHALL BE AN UPRIGHT SPRINKLER.
5. CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. CONTRACTOR TO COORDINATE FIRE PROTECTION EQUIPMENT LOCATIONS TO AVOID LIGHTS, AIR DIFFUSERS.
6. CONTRACT SHALL COORDINATE PIPING WITH EQUIPMENT WITHIN CEILING SPACE NEEDING ACCESS FOR MAINTENANCE.
7. HEAD GUARDS SHALL BE INSTALLED ON SPRINKLERS IN AREAS WHERE THERE IS A CHANCE OF DAMAGE DUE TO EQUIPMENT.
8. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED AND FM APPROVED WHERE APPLICABLE.
9. All SPRINKLER HEADS TO BE INSTALLED PERPENDICULAR TO CEILING.
10. CONTRACTOR SHALL PROTECT ALL SURFACES DURING INSTALLATION AND TESTING OF SYSTEMS.
11. UNFORESEEN CONDITIONS MAY EXIST. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT MAY BE NECESSARY. IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT, THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
12. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, TRUCKING, HOISTING, ENGINEERING, SCAFFOLDING, POWER HOOK UPS, PROTECTION, SHOP DRAWINGS, TAXES, LAYOUT, EQUIPMENT, SUPERVISION, INSURANCE, ETC. NECESSARY FOR THE FURNISHING AND INSTALLATION OF ALL SPECIFIED AND RELATED WORK IN ACCORDANCE WITH THE CONTACT DRAWINGS AND SPECIFICATIONS.
13. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, APPLY FOR ALL PERMITS, AND PAY ALL GOVERNMENTAL TAXES, FEES AND SUBMIT ALL NECESSARY PLANS, ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FROM ALL DEPARTMENTS HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATIONS OF INSPECTION FOR HISIHER WORK AND DELIVER SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
14. WORK SHALL BE PERFORMED, IN STRICT COMPLIANCE WITH THE ESTABLISHED WORK SCHEDULE BEING SET FORTH BY OWNER. COORDINATE ALL WORK WITH GENERAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ADEQUATE FORCES, CONSTRUCTION PLANT AND EQUIPMENT, AND SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, OVERTIME OPERATIONS, SUNDAYS AND HOLIDAYS IN ACCORDANCE WITH THE OWNER'S OPERATIONAL SCHEDULE AS LISTED IN DIVISION 1 OF THE SPECIFICATIONS. IF THE CONTRACTOR DOES NOT MAINTAIN THE CONSTRUCTION SCHEDULE BECAUSE OF INADEQUATE FORCES, SUPERVISION OR ANY OTHER REASON UNDER THE CONTRACTOR'S CONTROL, THE OWNER MAY REQUIRE THE CONTRACTOR TO INCREASE THE NUMBER OF SHIFTS AND/OR OVERTIME OPERATIONS, DAY OF WORK AND/OR THE AMOUNT OF CONSTRUCTION PLANT, AT NO ADDITIONAL COST TO THE OWNER UNDER THIS CONTRACT.
15. ALL VALVES CONTROLLING WATER SUPPLY SHALL BE EQUIPPED WITH TAMPER SWITCHES .
16. CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS AS REQUIRED PER NFPA 13, 8.15.2.5.2.3.

PROJECT LOCATION: FORT MYERS BEACH/ FLORIDA — PROJECT NAME: BAY OAKS PARK RENOVATIONS AND NEW COMMUNITY BASEBALL ARENA

61G15-32 COMPLIANCE NOTES

61G15-32.003

1 DESIGN CRITERIA:
THE NATURE AND SCOPE OF THE WORK IS: THE PROJECT IS TO PROVIDE A WET SPRINKLER FOR A NEW TYPE II-B BUILDING AT 22,758 SQUARE FEET.

SPRINKLER SYSTEM LAYOUT SHALL BE SUBMITTED BY A STATE OF FLORIDA LICENSED FIRE PROTECTION CONTRACTOR. THE BUILDING SHALL BE FULLY SPRINKLED BY A WET PIPE SPRINKLER SYSTEM. THE CONTRACTOR SHALL LAYOUT AND PROVIDE AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM ALL APPLICABLE CODES SET FORTH BY THE AUTHORITY HAVING JURISDICTION. DISCHARGE FROM INDIVIDUAL HEADS IN THE HYDRAULICALLY MOST REMOTE/DEMANDING AREA SHALL BE HYDRAULICALLY CALCULATED TO AN ACCEPTABLE MARGIN OF SAFETY OF NOT LESS THAN 5 PSI. FIRE SPRINKLER SYSTEM SHALL INCLUDE MATERIALS, ACCESSORIES, AND EQUIPMENT INSIDE AND OUTSIDE THE BUILDING TO PROVIDE A COMPLETE AND READY FOR USE SPRINKLER SYSTEM. LAYOUT AND PROVIDE EACH SYSTEM TO GIVE FULL CONSIDERATION TO BLIND SPACES, PIPING, ELECTRICAL EQUIPMENT, DUCTS, HVAC EQUIPMENT, ACCESS SPACE NEEDED FOR MAINTENANCE OF EQUIPMENT AND OTHER CONSTRUCTION AND EQUIPMENT IN ACCORDANCE WITH DETAILED WORKING DRAWINGS TO BE SUBMITTED FOR APPROVAL. LOCATE SPRINKLER HEADS IN A CONSISTENT PATTERN WITH CEILING GRID, LIGHTS, DIFFUSER, REGISTERS, GRILLES AND ARCHITECTURAL FEATURES. DEVICES AND EQUIPMENT FOR FIRE PROTECTION SERVICES SHALL BE U.L. LISTED AND F.M. APPROVED FOR USE IN WET PIPE SYSTEM.

2 THE AUTOMATIC FIRE SUPPRESSION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13, CHAPTER 25 AND NFPA 25.
UNDER GROUND FIRE SERVICE MAINS SHALL BE TESTED IN ACCORDANCE WITH NFPA 25.

3 REFER HYDRAULIC DESIGN DATA BELOW AND ON FLOOR PLAN SHEETS FOR HAZARD CLASSIFICATIONS AND REQUIRED DENSITIES.

LIGHT HAZARD OCCUPANCY CLASSIFICATION:
MAXIMUM SPRINKLER SPACING 225 SQ. FT. PER SPRINKLER,
DENSITY GPM/SQ. FT. = 0.10 GPM OVER 1,500 SQ. FT.
HOSE STREAM = 100 GPM / DURATION 30 MINUTES

ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION:
MAXIMUM SPRINKLER SPACING 130 SQ. FT. PER SPRINKLER,
DENSITY GPM/SQ. FT. = 0.15 GPM/SQ.FT. OVER 1,500 SQ. FT.
HOSE STREAM = 250 GPM / DURATION 60-90 MINUTES

4
1. STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM - NFPA 13, 2016
2. FLORIDA ADMINISTRATIVE CODE 61G15-32.003 AND 61G15-32.004.
3. FLORIDA BUILDING CODE 7TH EDITION (2020)
4. FLORIDA FIRE PREVENTION CODE 7TH EDITION (2020)
5. FIRE CODE - NFPA 1, 2018
6. LIFE SAFETY CODE - NFPA 101, 2018
7. NATIONAL ELECTRICAL CODE - NFPA 70, 2017
8. NATIONAL FIRE ALARM AND SIGNALING CODE - 72, 2016
9. COUNTY ORDINANCES
10. STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES - NFPA 24, 2013
11. STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - NFPA 25, 2014

5 PER STRUCTURAL SHEETS DESIGNED SUPERIMPOSED ROOF LOADS INCLUDING FIRE PROTECTION LOADS ARE:
LIVE = 20 PSF AND SUPERIMPOSED DEAD LOAD = 20 PSF
REFER TO CIVIL SHEETS FOR COMPLETE PROJECT INFORMATION

61G15-32.004

2A FOR "POINT OF SERVICE" PER F.S. 633 REFER TO SHEET F011.

2B INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, FIRE PREVENTION CODE, STATE AND LOCAL AUTHORITIES.

2C REFER TO HYDRAULIC DESIGN DATA LEGEND ON FLOOR PLANS.

2D REFER TO 61G15-32.003 COMPLIANCE NOTE #1 AND HYDRAULIC DESIGN DATA LEGEND ON FLOOR PLANS.

2E BUILDING SPRINKLER SYSTEM IS SUPPLIED BY A 6" FIRE MAIN 1'-0" ABOVE FINISHED FLOOR TO 8" WATER MAIN ON SITE. THE 8" WATER MAIN IS CIRCULATING AND CONNECTS TO OFF-SITE EXISTING 10" WATER MAIN EAST OF PROJECT SITE AND TO OFF-SITE EXISTING 8" MAIN NORTH SIDE COUNTY PROPERTY.

2F
FLOW TEST DATE — XXX
FLOW HYDRANT — HYDRANT #1 AT ENTRANCE ON BELLAIRE BAY DRIVE, HYDRANT #2 AT CORNER OF GOODLAND BAY DRIVE AND SAGE AVENUE
STATIC GAUGE PRESSURE — XX PSI
RESIDUAL GAUGE PRESSURE — XX PSI
FLOW RATE — XXX GPM
SOURCE OF INFORMATION: — XXX

2G ALL VALVES CONTROLLING WATER SUPPLY SHALL HAVE A RED TAMPER PROOF COVER WHICH WILL ACTIVATE AN ALARM OR TROUBLE SIGNAL WHEN ADJUSTED.

2H UTILITY PURVEYOR IS NOT AWARE OF MICROBIOLOGICAL CONTAMINANTS WHICH MAY CAUSE MICROBIAL INDUCED CORROSION IN THEIR SYSTEM.

2I FIRE MAIN IS PROVIDED WITH WILKENS 450DA N-STYLE DOUBLE CHECK DETECTOR ASSEMBLY WITH AN ALLOWABLE PRESSURE DROP OF 12 PSI.

2J ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS SHALL BE NEW U.L. LISTED AND FM APPROVED.

2K A FIRE PUMP IS NOT REQUIRED BASED ON THE FLOW TEST PROVIDED AND THE DEMANDS OF THE BUILDING.

2L FIRE WATER STORAGE TANK IS NOT REQUIRED. REFER TO ESTIMATED DEMAND BELOW.

ESTIMATE OF SYSTEM DEMAND: Q (GPM)
Q = DENSITY X REMOTE AREA X OVERAGE FACTOR + HOSE STREAM = MINIMUM GPM

OVERAGE FACTOR:
LIGHT HAZARD: 1.2
ORDINARY HAZARD: 1.3
EXTRA HAZARD: 1.4

STORAGE
DENSITY: ORDINARY HAZARD .15
. REMOTE AREA: 1,500 SQ.FT.
. OVERAGE FACTOR: 1.3
.
Q = .15 X 1,500 SQ.FT. X 1.3 (OH-1) + 250 = 542.5 GPM

SEATING AREA
DENSITY: LIGHT HAZARD .10
. REMOTE AREA: 1,500 SQ.FT.
. OVERAGE FACTOR: 1.2
.
Q = .10 X 1,500 SQ.FT. X 1.2 (LH) + 100 = 280 GPM

THE ABOVE LOCATION IS BASED ON A REMOTE ARE OF 1,500 SQ.FT.. CONTRACTOR HAS THE OPTION TO REDUCED THE REMOTE ARE IN ACCORDANCE WITH NFPA 13, 11.2.3.2.3.1.

2M THIS BUILDING HAS NO SPECIALIZED OCCUPANCIES OR AREAS, STORAGE OVER 12' OR STORAGE OF PLASTICS, RUBBER OR SIMILAR PRODUCTS AS NOTED IN NFPA 13 FIGURE A.23.1(B).

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CONSULTANT

OWNER

SEAL

K. TODD GRIFFITH — LICENSE — No 67083 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

PROJECT TITLE

BAY OAKS PARK RENOVATIONS AND NEW COMMUNITY BASEBALL ARENA

PROJECT ADDRESS

2731 Oak St, Fort Myers Beach, FL 33931

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01.14.2022
REVIEWED BY:	R.D./A.F.
DRAWN BY:	R.D./A.F.
DESIGNED BY:	R.D./A.F.
PROJECT NUMBER:	2020-108

SHEET TITLE

GENERAL NOTES AND LEGENDS - FIRE PROTECTION

SHEET ID

F001

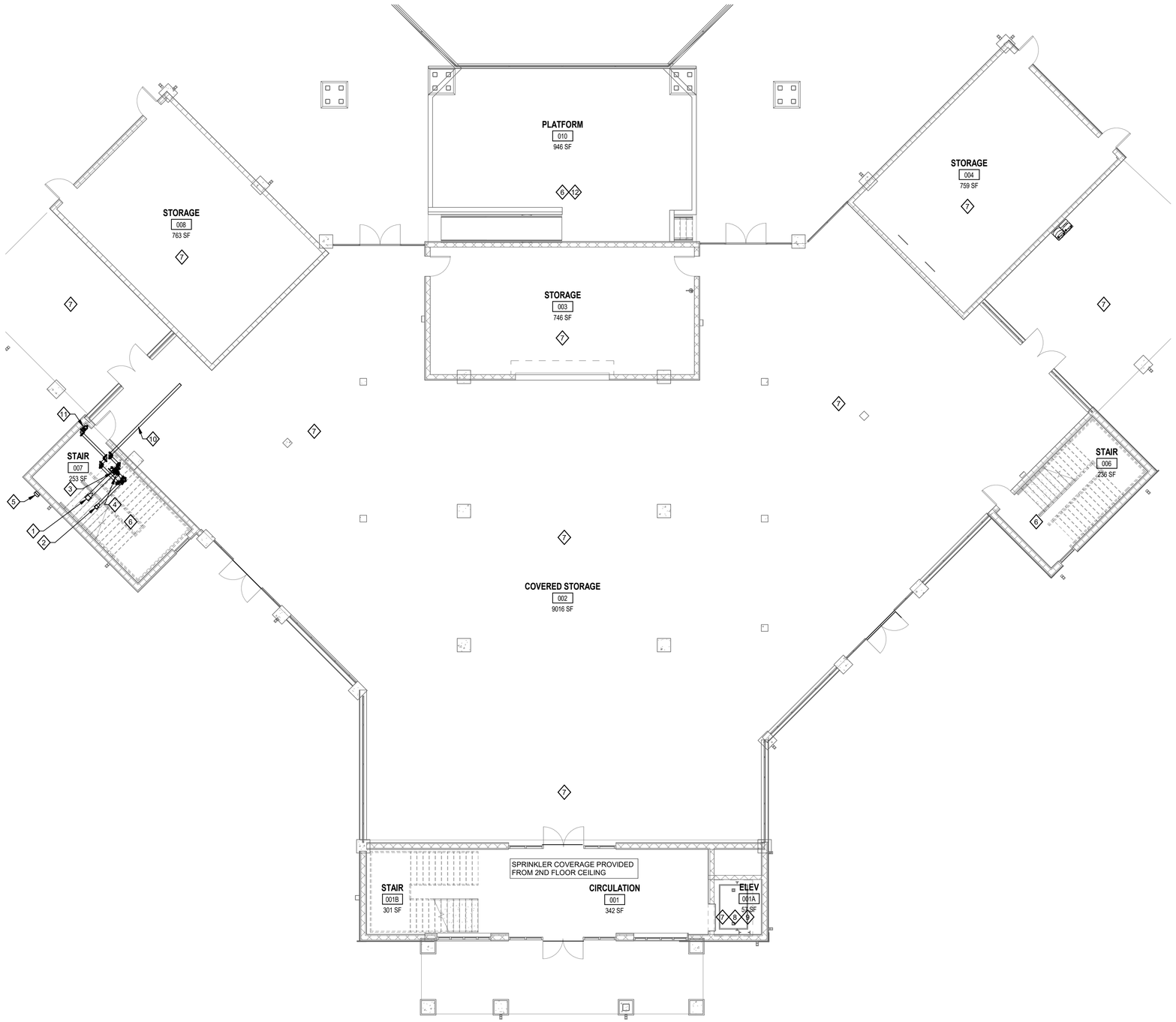
MATERN
Mechanical • Electrical • Plumbing • Fire Protection
Technology • Commissioning • Energy Engineers
7680 Cambridge Manor Pl., Suite 101 Fort Myers, FL 33907
ENG. BUS. No. EB-0005095 PHONE: (239) 332-1187
CERT. OF AUTH. No. 5096 FAX (239) 332-5195

MPE JOB #: 2020-108

Drawn: L.D.
Checked: K.T.G.
Approved: K.T.G.

90% CONSTRUCTION DOCUMENTS

1/14/2022 2:18:08 PM Autodesk Docs://FMB Bay Oaks Park/2020-108 - Plumbing Model - Revit 2022 - BIM360.rvt



FIRST FLOOR - FIRE PROTECTION PLAN

1/8" = 1'-0"

GENERAL NOTES

1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
2) REFER TO SPECIFICATIONS.
3) ALL SPRINKLERS ARE TO BE CENTER OF TILE UNLESS NOTED OTHERWISE (2' X 2' TILES).
4) ALL PIPING 2" OR LARGER TO BE SCHEDULE 10 PIPE UNLESS NOTED OTHERWISE.
5) ALL 1-1/2" OR SMALLER TO BE SCHEDULE 40 PIPE UNLESS NOTED OTHERWISE.
6) ALL ARM OVERS ARE TO BE 1" SCHEDULE 40 PIPE UNLESS NOTED OTHERWISE.
7) FLEXIBLE HOSE FITTINGS SHALL NOT BE UTILIZED FOR SPRINKLER CONNECTIONS.
8) IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES, AS WELL AS THE ARCHITECTURAL AND STRUCTURAL FEATURES OF THE BUILDING.
9) PROVIDE SPRINKLER COVERAGE ABOVE CEILING IN AREAS NOT MEETING UNSPRINKLERED CONCEALED SPACE REQUIREMENTS OF NFPA 13, 8.14.1.2.
10) PROVIDE AUXILIARY DRAIN IN PIPING WHERE AN EXCESS OF 5 GALLONS OF WATER IS TRAPPED. NFPA 13, 8.15.2.5.3.3. COORDINATE DISCHARGE LOCATION WITH ARCHITECT.
11) CONTRACTOR SHALL CREATE A FULL SET OF COORDINATION DRAWINGS WITH ALL DISCIPLINES PRIOR TO INSTALLATION OF SPRINKLER SYSTEM TO INSURE AVAILABLE SPACE FOR ALL DISCIPLINE COMPONENTS.
12) PROPOSED PIPE ROUTING IS SHOWN AS NEEDED FOR COORDINATION. FINAL ROUTING OF PIPING SHALL BE PROVIDED ON CONTRACTOR SHOP DRAWINGS.

◇ DIAMOND NOTES

1 6" UNDERGROUND FIRE SUPPLY MAIN. REFER TO CIVIL FOR CONTINUATION.
2 4" UNDERGROUND FIRE DEPARTMENT CONNECTION. REFER TO CIVIL FOR FOR CONTINUATION.
3 WET SYSTEM RISER. SIZE OF SYSTEM RISERS SHALL BE DETERMINED BY HYDRAULICALLY CALCULATING MOST REMOTE/DEMANDING AREAS OF SPRINKLER SYSTEM USING FLOW TEST PERFORMED AT PEAK HOURS OF WATER USAGE. A SAFETY MARGIN WITH AN EXCESS RESIDUAL OF 10 PSI SHALL CALCULATED TO ALLOW FOR FUTURE GROWTH IN THE AREA AND/OR FLUCTUATIONS IN THE AVAILABLE SUPPLY. SEE SYSTEM RISER DETAIL THIS SHEET FOR REQUIRED COMPONENTS.
4 2" MAIN DRAIN. ROUTE MAIN DRAIN PIPING TO EXTERIOR OF FOR DISCHARGE ON SPLASH BLOCK.
5 PROVIDE 10" 120V ELECTRIC BELL. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.
6 LIGHT HAZARD OCCUPANCY CLASSIFICATION: MAXIMUM SPRINKLER SPACING 225 SQ. FT. PER SPRINKLER, DENSITY GPM/SQ. FT. = 0.10 GPM OVER 1,500 SQ. FT. HOSE STREAM = 100 GPM / DURATION 30 MINUTES
7 ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION: MAXIMUM SPRINKLER SPACING 130 SQ. FT. PER SPRINKLER, DENSITY GPM/SQ. FT. = 0.15 GPM/SQ.FT. OVER 1,500 SQ. FT. HOSE STREAM = 250 GPM / DURATION 60-90 MINUTES
8 PROVIDE INTERMEDIATE TEMPERATURE (200°) SPRINKLER.
9 PROVIDE SIDEWALL SPRINKLER AT BOTTOM OF OF ELEVATOR HOISTWAY NOT MORE THEN 24 INCHES ABOVE THE FLOOR OF THE PIT IN ACCORDANCE WITH NFPA 13, 8.15.5.1 AND A8.15.5.1.
10 PROPOSED 1ST FLOOR FIRE MAIN ROUTING. FINAL ROUTING SHALL BE PROVIDED IN FIRE SPRINKLER CONTRACTOR SHOP DRAWINGS.
11 PROPOSED 2ND FLOOR FIRE MAIN ROUTING UP 2ND FLOOR. FINAL ROUTING SHALL BE PROVIDED IN FIRE SPRINKLER CONTRACTOR SHOP DRAWINGS.
12 PROVIDE SPRINKLER COVERGE BELOW 2ND FLOOR BALCONY.

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REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
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SHEET TITLE

FIRST FLOOR - FIRE PROTECTION PLAN

MATERN
Mechanical • Electrical • Plumbing • Fire Protection
Technology • Commissioning • Energy Engineers
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MPE JOB #: 2020-108

Drawn: L.D.
Checked: K.T.G.
Approved: K.T.G.

SHEET ID

F101

90% CONSTRUCTION DOCUMENTS

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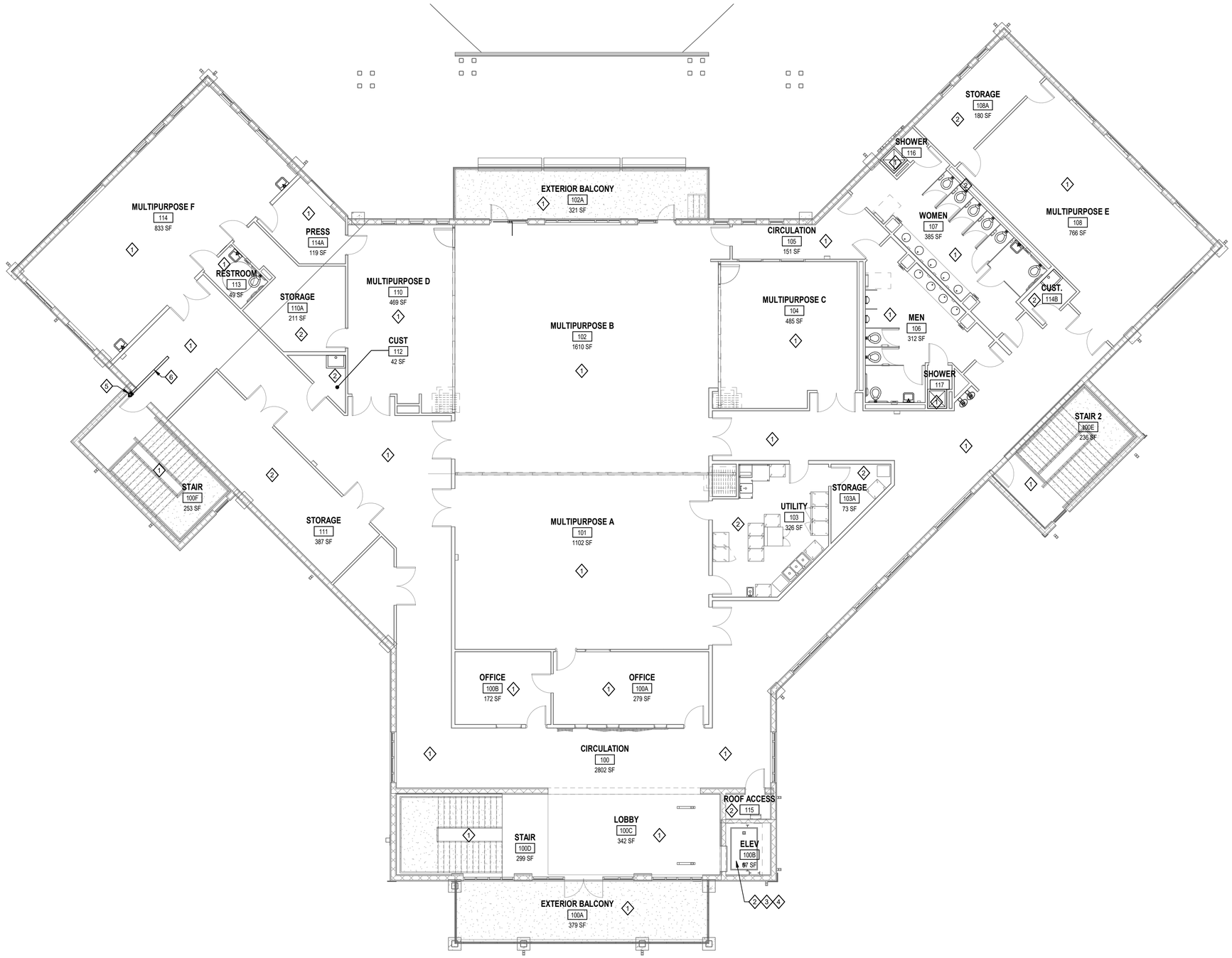

SECOND FLOOR - FIRE PROTECTION PLAN

1/8" = 1'-0"

4' 8' 16'

GENERAL NOTES

1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE.
2) REFER TO SPECIFICATIONS.
3) ALL SPRINKLERS ARE TO BE CENTER OF TILE UNLESS NOTED OTHERWISE (2' X 2' TILES).
4) ALL PIPING 2" OR LARGER TO BE SCHEDULE 10 PIPE UNLESS NOTED OTHERWISE.
5) ALL 1-1/2" OR SMALLER TO BE SCHEDULE 40 PIPE UNLESS NOTED OTHERWISE.
6) ALL ARM OVERS ARE TO BE 1" SCHEDULE 40 PIPE UNLESS NOTED OTHERWISE.
7) FLEXIBLE HOSE FITTINGS SHALL NOT BE UTILIZED FOR SPRINKLER CONNECTIONS.
8) IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE HIS WORK WITH ALL OTHER TRADES, AS WELL AS THE ARCHITECTURAL AND STRUCTURAL FEATURES OF THE BUILDING.
9) PROVIDE SPRINKLER COVERAGE ABOVE CEILING IN AREAS NOT MEETING UNSPRINKLERED CONCEALED SPACE REQUIREMENTS OF NFPA 13, 8.14.1.2.
10) PROVIDE AUXILIARY DRAIN IN PIPING WHERE AN EXCESS OF 5 GALLONS OF WATER IS TRAPPED, NFPA 13, 8.15.2.5.3.3. COORDINATE DISCHARGE LOCATION WITH ARCHITECT.
11) CONTRACTOR SHALL CREATE A FULL SET OF COORDINATION DRAWINGS WITH ALL DISCIPLINES PRIOR TO INSTALLATION OF SPRINKLER SYSTEM TO INSURE AVAILABLE SPACE FOR ALL DISCIPLINE COMPONENTS.
12) PROPOSED PIPE ROUTING IS SHOWN AS NEEDED FOR COORDINATION. FINAL ROUTING OF PIPING SHALL BE PROVIDED ON CONTRACTOR SHOP DRAWINGS.

DIAMOND NOTES

1 LIGHT HAZARD OCCUPANCY CLASSIFICATION:
MAXIMUM SPRINKLER SPACING 225 SQ. FT. PER SPRINKLER,
DENSITY GPM/SQ. FT. = 0.10 GPM OVER 1,500 SQ. FT.
HOSE STREAM = 100 GPM / DURATION 30 MINUTES

2 ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION:
MAXIMUM SPRINKLER SPACING 130 SQ. FT. PER SPRINKLER,
DENSITY GPM/SQ. FT. = 0.15 GPM/SQ.FT. OVER 1,500 SQ. FT.
HOSE STREAM = 250 GPM / DURATION 60-90 MINUTES

3 PROVIDE INTERMEDIATE TEMPERATURE (200°) SPRINKLER.

4 PROVIDE UPRIGHT SPRINKLER AT TOP OF ELEVATOR HOISTWAY.

5 PROPOSED 2ND FLOOR FIRE MAIN UP FROM 1ST FLOOR. FINAL ROUTING SHALL BE PROVIDED IN FIRE SPRINKLER CONTRACTOR SHOP DRAWINGS.

6 PROPOSED 2ND FLOOR FIRE MAIN ROUTING. FINAL ROUTING SHALL BE PROVIDED IN FIRE SPRINKLER CONTRACTOR SHOP DRAWINGS.

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PROJECT TITLE

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	01.14.2022
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	2020-108

SHEET TITLE

SECOND FLOOR - FIRE PROTECTION PLAN

MATERN
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Technology • Commissioning • Energy Engineers
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