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Order Plans

LEGEND	
	FIRE PROTECTION PIPING
	FIRE PROTECTION PIPING BELOW GRADE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	STRAINER
	TAMPER SWITCH
	FLOW SWITCH
	ANGLE VALVE
	FLANGED OR GROOVED CONNECTION
	BUTTERFLY VALVE WITH TAMPER SWITCH
	PIPE SLEEVES FOR WALL PENETRATIONS
	FIRE DEPARTMENT SIAMESE CONNECTION (FDC)
	FLOW SWITCH
	PRESSURE SWITCH
	REDUCER WITH FLANGES
	SIGHT GLASS
	UNION JOINT
	BALL VALVE
	CAPPED PIPE
	PRESSURE GAUGE
	INSPECTORS TEST STATION
	POST INDICATOR VALVE (PIV)
	REDUCER
	RISER NIPPLE
	AUTHORITY HAVING JURISDICTION
	FIRE DEPARTMENT SIAMESE CONNECTION
	FIRE EXTINGUISHER
	FIRE PROTECTION
	GALLONS PER MINUTE
	POUNDS PER SQUARE INCH
	HORSE POWER
	PHASE
	NORMALLY CLOSED
	DOUBLE DETECTOR CHECK VALVE
	LOW AIR PRESSURE SWITCH
	NOTES ON DRAWING PLAN

FIRE PROTECTION NOTES	
1.	FIRE PROTECTION PLANS AND SPECIFICATIONS ARE PROVIDED IN ACCORDANCE WITH FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32, AMENDED 3-28-17, WHICH READS AS FOLLOWS: FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS: THE FIRE PROTECTION SYSTEM ENGINEERING DRAWINGS, SPECIFICATIONS, PRESCRIPTIVE AND PERFORMANCE CRITERIA, WATER SUPPLY ANALYSIS AND OTHER MATERIALS OR REPRESENTATIONS, WHICH ARE SUBMITTED WITH THE GENERAL CONSTRUCTION DOCUMENTS PURSUANT TO SECTION 553.79(6)(C), F.S., THAT SET FORTH THE OVERALL DESIGN REQUIREMENTS AND PROVIDE SUFFICIENT DIRECTION FOR THE CONTRACTOR TO LAY OUT THE CONSTRUCTION, ALTERATION, DEMOLITION, RENOVATION, REPAIR, MODIFICATION, PERMITTING AND SUCH, FOR ANY PUBLIC OR PRIVATE FIRE PROTECTION SYSTEM(S), WHICH ARE PREPARED, SIGNED, DATED AND SEALED BY THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM(S).
2.	THE CONTRACTOR SHALL PROVIDE: LAYOUT DRAWINGS, HYDRAULIC CALCULATIONS, CATALOG INFORMATION ON STANDARD PRODUCTS, AND OTHER CONSTRUCTION DATA PREPARED BY THE LICENSED CONTRACTOR THAT PROVIDES DETAIL ON THE LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, SPRINKLER HEADS, SIZING OF PIPE, HANGER LOCATIONS, AND HYDRAULIC CALCULATIONS AND ALSO SERVES AS A GUIDE FOR FABRICATION AND INSTALLATION OF A FIRE PROTECTION SYSTEM. FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS ARE BASED UPON ENGINEERING DIRECTION PROVIDED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS AND REQUIRE NO ADDITIONAL ENGINEERING INPUT. PER FLORIDA STATUTE THESE DOCUMENTS DO NOT REQUIRE THE SEAL OF A FLORIDA REGISTERED ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. SHOP DRAWINGS STAMPED APPROVED OR FURNISH AS CORRECTED SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE BUILDING DEPARTMENT AHJ FOR APPROVAL.
3.	HANGER LOCATIONS SHALL BE COORDINATED WITH THE BUILDING STRUCTURE. SUPPORT PIPING IN ACCORDANCE WITH NFPA-13. PROVIDE ALL MISCELLANEOUS STEEL FRAMING AS REQUIRED TO SUPPORT PIPING FROM STRUCTURE. HANGERS AND ROD SHALL HAVE A GALVANIZED OR PLATED FINISH.
4.	PROVIDE CHROME ESCUTCHEONS WHERE PIPING PENETRATES WALLS IN EXPOSED AREAS.
5.	SPRINKLER HEADS SHALL BE AS FOLLOWS: A. HEADS MOUNTED IN CEILINGS SHALL BE SEMI-RECESSED TYPE, QUICK RESPONSE, FACTORY CHROME PLATED. B. HEADS IN AREAS WITHOUT CEILINGS SHALL BE UPRIGHT, BRASS FINISH, QUICK RESPONSE TYPE.
6.	TIE-IN OF FLOW SWITCH AND TAMPER SWITCHES TO FIRE ALARM SYSTEM, AND WIRING SHALL BE PERFORMED UNDER DIVISION 26.
7.	ALL SPRINKLER PIPING SHALL BE PAINTED WHERE INSTALLED BELOW CEILINGS, AND SIMILAR LOCATIONS WHERE EXPOSED. COLOR AS DIRECTED BY THE ARCHITECT IN PUBLIC SPACES OR RED WHERE EXPOSED IN UNOCCUPIED SPACES SUCH AS EQUIPMENT ROOMS. PROVIDE HEAD GUARDS IN EQUIPMENT ROOMS AND SIMILAR LOCATIONS WHERE THE HEADS ARE SUBJECT TO DAMAGE.
8.	TEST SYSTEMS AT 200 PSI FOR TWO HOURS IN ACCORDANCE WITH NFPA-13 AND 24 AND REQUIREMENTS OF AHJ AND PREPARED CONTRACTOR MATERIAL AND TEST CERTIFICATE AS PRESCRIBED BY NFPA STANDARDS.
9.	PROVIDE A SPRINKLER HEAD CABINET AND PROVIDE SPARE SPRINKLER HEADS FOR EACH TYPE OF SPRINKLER HEADS IN ACCORDANCE WITH NFPA-13.
10.	SIAMESE FIRE DEPARTMENT CONNECTION SHALL HAVE (2) - 2 1/2 INCH POLISHED BRASS INLET HOSE CONN. HAVING 4" OUTLET END, RED ENAMEL FINISH, CAST IRON EASE OFF CAPS, AUTOMATIC BRASS BALL PIPE CONNECT, YARD MOUNT TYPE. SEE CIVIL DRAWINGS.
11.	LABEL DRAIN PIPING, INSPECTORS TEST, MAIN DRAIN, SHUT-OFF VALVES, AND SIMILAR COMPONENTS.
12.	SUBMIT FITTINGS PRODUCT DATA FOR ALL MATERIALS, INCLUDING PIPING FITTINGS, VALVES, HEADS, AND SIGNS.
13.	SEE CIVIL DRAWINGS FOR UNDERGROUND PIPING MATERIALS, SIAMESE POST INDICATOR VALVE, DOUBLE DETECTOR CHECK AND SITE PIPING.
14.	PROVIDE AUXILIARY DRAINS FOR TRAPPED SECTIONS OF PIPING.
15.	HAZARD CLASSIFICATION OF OCCUPANCIES, DENSITY AREA (GPM/SQ FT) AND HOSE DEMAND (GPM) DESIGN REQUIREMENTS ARE IN ACCORDANCE WITH NFPA-13.
16.	THE FIRE PROTECTION CONTRACTOR SHALL LIMIT THE SPRINKLER PIPING MAINS SO AS TO BE LOCATED IN A 6" HORIZONTAL SPACE ABOVE THE CEILINGS, USING EITHER THE 6" OF SPACE DIRECTLY ABOVE THE CEILINGS, OR THE 6" OF SPACE DIRECTLY BELOW THE STRUCTURE. COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTORS IS REQUIRED PRIOR TO SUBMISSION OF SPRINKLER SHOP DRAWINGS. ADDITIONAL ROWS OF SPRINKLER HEADS MAY BE REQUIRED IN SOME SPACES WHERE LARGE DUCTWORK PREVENTS MAXIMUM HEAD SPACINGS FROM WALLS. WHERE NEEDED FOR COORDINATION, THE SPRINKLER PIPING SHALL OFFSET UP INTO AND BETWEEN JOISTS, AND OFFSET AROUND DUCT RUNS.
17.	THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL MAIN PIPING RUNS THROUGH THE BUILDING WITH ALL TRADES. ANY EXPOSED PIPING ROUTING SHALL BE APPROVED BY ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
18.	TO THE BEST OF THE ENGINEERS KNOWLEDGE, MICROBIAL INDUCED CORROSION (MIC) IS NOT OF CONCERN. SCHEDULE 40 BRANCH PIPING IS SPECIFIED, IN PART FOR CORROSION RESISTANCE.
19.	THE WATER SUPPLY TO THE FIRE PROTECTION SYSTEM SHALL BE TESTED FOR CONTAMINANTS THAT MAY LEAD TO MICROBIAL CORROSION. IF POSSIBLE CONTAMINANTS ARE FOUND, PROTECTIVE MEASURES SHALL BE DESIGNED INTO THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCUREMENT OF THE TEST, AND EVALUATION OF THE RESULTS. PROVIDE TEST RESULTS AND RECOMMENDATIONS TO THE DESIGN TEAM AND OWNER.
20.	AT THE CONTRACTOR OPTION, FLEXIBLE HEADS MAY BE USED. HOWEVER, NO EXCESS FLEXIBLE PIPE MAY BE RESTING ON CEILING TILES. RESTRICT USE TO 3'-0" SECTIONS.
21.	APPLICABLE CODES AND STANDARDS TO BE APPLIED: - FLORIDA BUILDING CODE 2014 5TH EDITION - FLORIDA FIRE PREVENTION CODE 2014 EDITION - NFPA-13-2012 EDITION

WATER SUPPLY ANALYSIS INFORMATION		
WATER SUPPLY ESTIMATE		
<u>FLOW</u>		<u>PRESSURE</u>
0.2 GPM PER SQ. FT. x 1500 SQ. FT. -	300 GPM	MINIMUM LEAD PRESSURE -
1.3 OVERAGE FACTOR -	90 GPM	ELEVATION -
HOSE -	250 GPM	BACKFLOW DEVICE -
SUBTOTAL -	640 GPM	SUBTOTAL -
		650 PSI PRESSURE -
		61 PSI
		61 PSI - 28 PSI = 33 PSI
		AVAILABLE FOR PIPING LOSSES
		THEREFORE NO FIRE PUMP IS REQUIRED
ROUNDED TO BE 650 GPM		

FLOW TEST DATA				
FLOW TEST DATE	STATIC PRESSURE	RESIDUAL PRESSURE	GPM DISCHARGE	CONDUCTED BY
09-2017	66	60	1,036	SEACOAST UTILITY AUTHORITY
HYDRANT 4-0171				
GPM IS 112 @ 20 PSI				

FIRE PROTECTION SHEET LISTING	
FP0.1	LEGEND AND GENERAL NOTES
FP0.2	FIRE PROTECTION SITE PLAN
FP1.1	FIRST FLOOR FIRE PROTECTION PLAN
FP1.2	SECOND FLOOR FIRE PROTECTION PLAN
FP2.1	FIRE PROTECTION SECTIONS
FP3.1	FIRE PROTECTION DETAILS
FP3.2	FIRE PROTECTION DETAILS

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 CONSTRUCTION DOCUMENTS

Comm. No:	16117.00	
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Date:	10-23-17	
Drawn:	BAR	
Revisions		
No.	Date	Note

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

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