FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32 NOTES:

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FLORIDA ADMINISTRATIVE CODE 61G15-32

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FLORIDA BUILDING CODE, 2020 FLORIDA FIRE PREVENTION CODE, 2020

NFPA 13, 2016 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.

NFPA 14, 2016 EDITION, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS. NFPA 24, 2016 EDITION, STANDARDS FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.

NFPA 25, 2017 EDITION, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION

(1) PROJECT SUMMARY:

SYSTEMS

PROVIDE A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM FOR THE NAPLES PLAYHOUSE GARAGE. SPRINKLER CONTRACTOR SHALL PROVIDE NEW SPRINKLER PIPING AND HEADS AS NECESSARY TO PROVIDE FULL COVERAGE FOR PROJECT.

(2) ACCEPTANCE TEST CRITERIA:

PROVIDE ACCEPTANCE TESTING FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, CHAPTER 26, 24 AND 10, FOR UNDERGROUND AND ABOVEGROUND PIPING RESPECTIVELY, AND ALL APPLICABLE STANDARDS.

(3) & (4) BASIS OF DESIGN CRITERION:

THE SPRINKLER SYSTEM SHALL BE WET PIPE SYSTEM, DESIGNED PER APPLICABLE CHAPTERS OF NFPA 13 FOR LIGHT AND ORDINARY HAZARD GROUP OCCUPANCIES, NFPA 14, NFPA 24 AND NFPA 25. SYSTEM SHALL INCLUDE USING STEEL PIPE RISERS TO UPRIGHT HEADS LOCATED IN EXPOSED SPACES, STEEL PIPE DROP TO PENDENT HEADS COVERING AREA BELOW CEILING, AND STEEL PIPE RISERS TO UPRIGHT HEADS LOCATED IN CONCEALED SPACES. UNDERGROUND PIPING SHALL BE IN ACCORDANCE WITH NFPA 13CHAPTER 10. ABOVE GROUND PIPING SHALL BE IN ACCORDANCE WITH NFPA 13.

(5) STRUCTURAL SUPPORT COORDINATION:

STRUCTURAL SUPPORT AND STRUCTURAL OPENING FOR THE FIRE PROTECTION SYSTEM, INCLUDING LIVE AND DEAD LOADS, HAVE BEEN COORDINATED WITH THE STRUCTURAL ENGINEER: REFER TO STRUCTURAL DRAWINGS.

61G15-32.004 (2)

(2)(a) POINT OF SERVICE: THE POINT OF SERVICE IS A NEW 8" FIRE MAIN LOCATED APPROXIMATELY 200' FROM FIRE PUMP ROOM. THE NEW 8" FIRE MAIN WILL TAP THE EXISTING XX" PUBLIC WATER MAIN APPROXIMATELY XX' FROM THE FIRE PUMP ROOM.

(2)(b) APPLICABLE STANDARDS:

THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE A HYDRAULICALLY CALCULATED. WET PIPE SYSTEM SHALL BE DESIGNED PER APPLICABLE CHAPTERS OF NFPA 13, FOR LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 OCCUPANCIES.

(2) (c) CLASSIFICATION OF HAZARD:

THE SPRINKLER SYSTEMS SHALL BE WET PIPE, DESIGNED PER NFPA 13 WITH CLASSIFICATIONS AS FOLLOWS:

LIGHT HAZARD - OFFICE SPACES, RESTROOMS, BREAK ROOMS, CORRIDORS, CLOSETS - LOCKER ROOMS

ORDINARY HAZARD GROUP 1 - EQUIPMENT AND STORAGE ROOMS - MECHANICAL AND ELECTRICAL ROOMS - CUSTODIAL CLOSETS -

(2)(d) DESIGN APPROACH:

LABS.

LIGHT HAZARD AREA CALCULATIONS SHALL BE BASED ON 1500 SQUARE FEET OF THE MOST HYDRAULICALLY REMOTE AREA OVER A SPRINKLER DENSITY OF 0.10 GPM/SF. MAXIMUM SPRINKLER COVERAGE AREA SHALL BE 225 SQUARE FEET PER STANDARD COVERAGE

HEAD. MAXIMUM SPACING BETWEEN HEADS SHALL BE 15 FEET. HYDRAULIC REMOTE AREA REDUCTION IS ACCEPTABLE. EXTENDED COVERAGE HEADS ARE ACCEPTABLE.

ORDINARY HAZARD GROUP 1 AREA CALCULATIONS SHALL BE BASED ON 1500 SQUARE FEET OF THE MOST HYDRAULICALLY REMOTE AREA OVER A SPRINKLER DENSITY OF 0.15 GPM/SF. MAXIMUM SPRINKLER COVERAGE AREA SHALL BE 130 SQUARE FEET PER STANDARD COVERAGE HEAD. MAXIMUM SPACING BETWEEN HEADS SHALL BE 15 FEET. HYDRAULIC REMOTE AREA REDUCTION IS ACCEPTABLE. EXTENDED COVERAGE HEADS ARE ACCEPTABLE.

ORDINARY HAZARD GROUP 2 AREA CALCULATIONS SHALL BE BASED ON 1500 SQUARE FEET OF THE MOST HYDRAULICALLY REMOTE AREA OVER A SPRINKLER DENSITY OF 0.20 GPM/SF. MAXIMUM SPRINKLER COVERAGE AREA SHALL BE 130 SQUARE FEET PER STANDARD COVERAGE HEAD. MAXIMUM SPACING BETWEEN HEADS SHALL BE 15 FEET. HYDRAULIC REMOTE AREA REDUCTION IS ACCEPTABLE. EXTENDED COVERAGE HEADS ARE ACCEPTABLE.

PROVIDE SPRINKLERS IN LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 SPACES THAT ARE WHITE, SEMI- RECESSED TYPE, QUICK RESPONSE, STANDARD COVERAGE PENDENT HEADS RATED FOR 135 - 170 DEG. F. PROVIDE SPRINKLER HEAD SPACING, FLOW AND PRESSURE APPLICATIONS TO COMPLY WITH MANUFACTURERS LISTING. THE SYSTEM AREA OF OPERATION FOR QUICK RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE REDUCED IN ACCORDANCE WITH NFPA 13.

COLLIER COUNTY REQUIREMENTS:

1. THE NEW BUILDING SHALL BE PROVIDED WITH COMPLETE COVERAGE THROUGHOUT THE ENTIRE BUILDING WITH CONCEALED STYLE SPRINKLER HEADS IN ALL TOILET ROOMS, UTILITY ROOMS AND ANY OCCUPIED ROOM WITH HARD CEILINGS.

2. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. MAINS SHALL NOT BE ROUTED THROUGH OPEN CEILING AREAS.

3. ALL HOSE VALVES SHALL BE PROVIDED IN LOCKABLE VALVE CABINET WITH FRANGIBLE GLASS. STANDPIPES IN STAIRWELL IWILL BE IN A SHAFT, CABINET SHALL BE MOUNTED IN SHAFT WALL.

4. PROVIDE ANTIFREEZE SYSTEM FOR KITCHEN COOLER/FREEZER SPRINKLERS.

(2)(e) CHARACTERISTICS OF THE WATER:

WATER SUPPLY IS A PUBLIC WATER WORKS CIRCULATING MAIN. THE FLOW IS RELIABLE AND SATISFACTORY FOR THE MOST HYDRAULICALLY DEMANDING DESIGN AREA AND EXCEEDS THE REQUIREMENTS OF NFPA 13.

(2)(f) FLOW TEST DATA:

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FIRE FLOW TEST - THE FLOW TEST INFORMATION SHOWN ON THIS SHEET IS AN ESTIMATE PENDING ACTUAL FLOW TEST. CONTRACTOR SHALL NOT PRODUCE SHOP DRAWING, HYDRAULIC CALCULATION OR BEGIN INSTALLING SPRINKLER SYSTEM UNTIL FLOW TEST IS PERFORMED, FIRE PUMP SHALL NOT BE PURCHASED UNTIL SHOP DRAWINGS AND CALCS ARE APPROVED.

(2)(g) VALVING AND ALARM REQUIREMENTS:

THE NEW FIRE SPRINKLER RISER FOR THIS BUILDING IS EQUIPPED WITH CHECK VALVE, INSPECTOR TEST/DRAIN VALVES, AND WATER FLOW SWITCHES, INCLUDING LOCAL ALARMS AND OFF-SITE MONITORING.

(2)(h) MICROBIAL INDUCED CORROSION (MIC):

THE LOCAL WATER PURVEYOR ACKNOWLEDGES THAT THE WATER SERVICE PROVIDED MEETS OR EXCEEDS STATE AND FEDERAL CORROSION WATER CONTROL QUALITY PARAMETERS. PURSUANT TO CONVERSATIONS WITH THE LOCAL WATER PURVEYOR, THE ENGINEER IF RECORD IS SATISFIED THAT MIC CORRECTIVE MEASURERS ARE UNNECESSARY.

(2)(i) BACKFLOW PREVENTION AND METERING SPECIFICATIONS:

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BACKFLOW IS DOUBLE CHECK WITH DETECTOR ASSEMBLY MEETING COLLER COUNTY STANDARDS. COORDINATE EXACT MODEL WITH SITE CONTRACTOR.

(L) A VERIFICATION OF WHETHER A FIREWATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED. STORAGE TANK REQUIREMENT CAN NOT BE DETERMINED AT THIS TIME.

(M) OWNER'S CERTIFICATE. IN STORAGE OCCUPANCIES, THE OWNER'S INFORMATION CERTIFICATE IS REQUIRED FROM THE PROPERTY OWNER AS IT CLEARLY DEFINES THE STORAGE CONFIGURATION OF THE SPACE FOR THE CURRENT AND FUTURE. THIS IS NOT A STORAGE FACILITY.

FIRE PROTECTION LEGEND		DE	DESIGN CRITERIA	
SYMBOL	DESCRIPTION	ENTIRE SPACE (EXCEPT AS NOTED):		1. FIRE PROTECTION SYS
R R	- CONTROL VALVE W/ TAMPER SWITCH	OCCUPANCY CLASSIFICATION: SYSTEM TYPE:	LIGHT HAZARD WET PIPE	2. FINAL INSPECTION AND
$\vec{\boldsymbol{\boldsymbol{\triangleleft}}}$	- CHECK VALVE	DESIGN DENSITY: HYDRAULIC REMOTE AREA: SPRINKI ER ORIEICE SIZE:	.10 GPM/SQ.FT. 1,500 SQ. FT. 1/2"	3. SPRINKLER SHOP DRA FIRE MARSHAL AND SH
\sim	- FLOW SWITCH	DURATION OF SUPPLY: MAX. COVERAGE/SPRINKLER HEAD:	60 - 90 MIN. 225 SQL FT. OR SPRINKLER LISTING	4. PIPE ROUTING SHOWN OFFSETS REQUIRED FO
\geq	- FIRE DEPARTMENT CONNECTION (WALL MOUNTED)	HOSE STREAM ALLOWANCE:	250 GPM	5. PIPING IN AREAS WITH USE OF THE SPACE.
\circ	- FIRE DEPARTMENT CONNECTION (SIDEWALK SIAMESE)	STORAGE, MECH./ELEC. ROOMS:		6. REFER TO ARCHITECT
	- FIRE VALVE CABINET	OCCUPANCY CLASSIFICATION: SYSTEM TYPE: DESIGN DENSITY	ORDINARY HAZARD GROUP I WET PIPE 15 GPM/SQ FT	7. SPRINKLERS ARE TO B SPACING OF SPRINKLE
⊗b <u>≺</u> r	- STANDPIPE WITH FIRE DEPARTMENT VALVE	HYDRAULIC REMOTE AREA: SPRINKLER ORIFICE SIZE:	1,500 SQ. FT. 1/2"	8. SPRINKLER LOCATION
	- SPRINKLER DRAIN RISER	DURATION OF SUPPLY: MAX. COVERAGE/SPRINKLER HEAD: HOSE STREAM ALLOWANCE:	60 - 90 MIN. 130 SQ. FT. OR SPRINKLER LISTING 250 GPM	9. SPRINKLERS IN AREAS 1" BELOW THE BOTTON
	- COMBINATION RISER	STANDPIPE:		PROOFING THAT MAKE THE FIRE PROOFING.
	- DRAIN VALVE	SYSTEM DESCRIPTION:	AUTOMATIC WET	10. SLEEVE AND/OR FIRE ASSEMBLIES. FIRESTO
GRATIA	- BACKFLOW PREVENTOR	REFERENCE PUBLICATIONS:		
GRANN ANT	- BACKFLOW PREVENTOR W/ FDC	THE FOLLOWING PUBLICATIONS SHALL BE USED AS A PROJECT.	THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM ON THIS PROJECT.	
\bigwedge	- REVISION REFERENCE	FLORIDA FIRE PREVENTION CODE, 7th EDITION (202 NEDA 12, STANDARD FOR THE INSTALLATION OF ST	 FLORIDA FIRE PREVENTION CODE, 7th EDITION (2020) NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS, 2016 EDITION NFPA 16, STANDARD FOR THE INSTALLATION OF FOAM-WATER SPRINKLER AND FOAM-WATER SPRAY SYSTEMS, 2015 EDITION NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2016 EDITION NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2016 EDITION NFPA 25, STANDARD FOR THE INSTALLATION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS, 2017 EDITION 	
DETAIL No.		 NFPA 10, STANDARD FOR THE INSTALLATION OF SF NFPA 14, STANDARD FOR THE INSTALLATION OF ST NFPA 16, STANDARD FOR THE INSTALLATION OF FC NFPA 20, STANDARD FOR THE INSTALLATION OF ST NFPA 24, STANDARD FOR THE INSTALLATION OF PERSON 		
FP3.01 SHEET SHOL	WN ON	 NFPA 25, STANDARD FOR THE INSPECTION, TESTIN SYSTEMS, 2017 EDITION 		
$\langle \mathbf{x} \rangle$	- HYDRAULIC NODE	SPRINKLER TYPE CRITERIA:		15. PROVIDE SPRINKLER SHAFTS AND ON ANY H
		SPRINKLERS IN GYPSUM BOARD CEILINGS, RECEPTIC SHALL BE RATED AT 165°F WITH A 5.6 K-FACTOR.	SPRINKLERS IN GYPSUM BOARD CEILINGS, RECEPTIONS, SPECIALTY CEILINGS TO BE CONCEALED (WHITE COVERPLATE), AND SHALL BE RATED AT 165°F WITH A 5.6 K-FACTOR.	
		ALL SPRINKLERS IN OFFICES AND BACK OF HOUSE SF BE RATED AT 165°F WITH A 5.6 K-FACTOR.	PACES TO HAVE SEMI-RECESSED SPRINKLERS (CHROME FINISH), AND SHALL	17. COORDINATE PIPING
		ALL SPRINKLERS IN AREAS WITH NO CEILINGS TO HA	ALL SPRINKLERS IN AREAS WITH NO CEILINGS TO HAVE BRASS UPRIGHT SPRINKLERS, AND SHALL BE RATED AT 165° F WITH A 5.6	
				18. PROVIDE 20-GAUGE S
				19. SPRINKLERS IN ELEVA PER NFPA 13.

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21. THE FIRE PROTECTION SYSTEMS AND INFORMATION SHOWN WITHIN THESE DRAWINGS AND THE SPECIFICATIONS, REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD. THESE DRAWINGS AND SPECIFICATIONS ARE IN COMPLIANCE WITH STATE RULE 61G15-32 FOR FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT LAYOUT DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR PERMITTING AND REVIEW. THE LAYOUT DRAWINGS SHALL BE IN COMPLIANCE WITH FLORIDA STATE RULE 61G15-32 AND NFPA 13 - WORKING PLANS SECTION.

ENGINEER (PE).

CORROSION.

WIRED TO THE FIRE ALARM SYSTEM.

SHEET FP0.01

FP1.0 FIRE PROTECTION SITE PLAN

FIRE PROTECTION FLOW TEST DATA

STATIC HYDRANT

STATIC - TBD

RESIDUAL - TBD

LOCATION - TBD

TEST CONDUCTED BY - TBD

FLOW HYDRANT TBD

DATE - TBD TIME - TBD

FIRE PROTECTION GENERAL NOTES

STEM TO COMPLY WITH NFPA 13, 14, 20, 24 AND ALL APPLICABLE STATE CODES.

ND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.

13

AWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND STATE HALL BE APPROVED PRIOR TO ANY INSTALLATION.

N IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES. H EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM

TURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.

BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. LERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER.

NS SHALL BE CENTERED IN THE TILE. PROVIDE ARMOVER OR SWING JOINT AS REQUIRED.

WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR M OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY-ON FIRE KES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF

ESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED OP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE WINGS FOR FINAL FINISHES.

ANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.

IENTLY ATTACHED NAME TAG TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH IGNED SYSTEM.

S UNDERNEATH ALL EXPOSED DUCTWORK WHICH IS OVER 48" WIDE AND SPACE HEADS AROUND ALL CORDANCE WITH NFPA 13. HEADS UNDER DUCTS ARE NOT INDICATED ON THE DRAWINGS BUT ARE L BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER DUCTWORK AND IONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS.

RS AT THE TOP AND BOTTOM OF ALL STAIRWELLS AND AT THE LANDING OF EACH FLOOR THAT OPENS FIRE ZONE.

R GUARDS ON ALL HEADS IN ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR HEADS LESS THAN 7'-0" ABOVE THE FLOOR.

E EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END NCE WITH NFPA 13.

G WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NG OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL AT NO ADDITIONAL COST.

STEEL SPRINKLER CANOPY SHIELD AT SPRINKLERS IN TRASH CHUTE PER NFPA #13.

ATOR SHAFTS AND EQUIPMENT ROOMS ARE TO BE INTERMEDIATE TEMPERATURE 200°F SPRINKLERS

20. WET BULK SUPPLY MAINS AND HOSE SUPPLY MAINS EXPOSED TO THE WEATHER SHALL BE INSULATED AND PROVIDED WITH

22. IN ADDITION TO STANDARD LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS, SIGNED BY A FLORIDA LICENSED PROFESSIONAL

23. THE NEW XX" WATER MAIN IS CONNECTED TO AN EXISTING XX" LOOPED WATER MAIN.

24. THE LOCAL WATER SUPPLIER HAS NOT INDICATED THAT THE WATER SUPPLY COULD LEAD TO MICROBIAL INDUCED

25. ALL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND ALL ZONES SHALL BE PROVIDED WITH FLOW SWITCHES

FIRE PROTECTION DRAWING INDEX

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DESCRIPTION FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX



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1st Avenue S Public Parking Garage

City of Naples

Consultant:





Sheet Issued:



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