

SPRINKLER NOTES: CODE SECTION 61G15-32.004

1 THE FOLLOWING NOTES SHALL SERVE AS MEETING THE REQUIREMENTS SET FORTH UNDER THE FLORIDA ADMINISTRATIVE CODE SECTION 61G1 - 200 OR FIRE PROTECTION ENGINEERING DOCUMENTS

2 THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF SHOP DRAWINGS OR FIRE SPRINKLER INSTALLATION OR THE PROJECT AS INDICATED IN THE DESIGN DOCUMENTS THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE 201 FLORIDA BUILDING CODE THE 201 FLORIDA FIRE PREVENTION CODE N PA 1 201 EDITION N PA 1 N PA 20 N PA 2 201 EDITIONS THE OWNER'S INSURANCE COMPANY AND GUIDE LINES ANY THE STATE AND/OR LOCAL FIRE MARSHAL THE LOCAL BUILDING DEPARTMENT AND OWNER GUIDE LINE AND STANDARDS EXISTING

NOT USED

4- FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FIRE FLOW TEST PERFORMED OR WITNESSED BY LOCAL AHJ FIRE DEPARTMENT

SUCH FIRE FLOW TEST RESULTS SHALL BE MODIFIED ACCORDING TO THE REQUIREMENTS OF BROWARD COUNTY LOCAL AMENDMENTS TO THE FLORIDA FIRE PREVENTION CODE, SECTION F-112.1 TO BE INCORPORATED AS THE HYDRAULIC DATA FOR HYDRAULIC CALCULATIONS PURPOSES.

THE CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS AND APPLICABLE HYDRAULIC CALCULATIONS BEARING THE SIGNATURE AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR REVIEW BY THE ARCHITECT/OWNER PRIOR TO COMMENCING ANY FIELD WORK AS WELL AS THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND APPLICABLE HYDRAULIC CALCULATIONS TO THE LOCAL BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION AND OBTAIN ALL NECESSARY APPROVALS AND PERMITS FOR THE PROJECT

6 THE CONTRACTOR SHALL COORDINATE ALL FIRE SPRINKLER WORK WITH ALL OTHER CONSTRUCTION DISCIPLINES INCLUDING BUT NOT LIMITED TO HVAC PLUMBING ELECTRICAL STRUCTURAL AND CIVIL

THE CONTRACTOR SHALL ALSO COORDINATE ANY SPECIAL TESTING REQUIRED BY THE OWNER

THE SHOP DRAWINGS INCLUDING HYDRAULIC CALCULATIONS SHALL SHOW THE SIZES TYPES AND DIMENSIONAL LOCATIONS OR ALL FIRE SPRINKLERS MAINS BRANCHES AND EXISTING PIPING OR THE WATER SUPPLY TO THE CONNECTION OF THE SYSTEM

8 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FINAL LOCATION OF THE FIRE SPRINKLER HEADS AND/OR PIPING OR FINAL FIRE PROTECTION LAYOUT DOCUMENTS PREPARATION AND INSTALLATION

THE DESIGN DOCUMENTS ARE NOT AND SHALL NOT BE CONSIDERED SHOP DRAWINGS NOR INSTALLATION DRAWINGS

10 ALL INFORMATION CONTAINED IN THESE DRAWINGS IS ACCORDING TO THE ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER AND LIMITED FIELD OBSERVATIONS THE ENGINEER OR THE ARCHITECT MAKES NO REPRESENTATION OR THE ACCURACY OF SUCH INFORMATION

THE CONTRACTOR SHALL VISIT THE BUILDING AND FIELD VERIFY ALL EXISTING CONDITIONS MATERIALS EQUIPMENT DIMENSIONS ETC ONCE DEMOLITION TAKES PLACE PRIOR TO SUBMITTING A BID AND COMMERCING ANY WORK

11 THE CONTRACTOR SHALL REMOVE EXISTING FIRE SPRINKLERS AND/OR FIRE SPRINKLER PIPING NOT REQUIRED OR THE PERMANENT INSTALLATION AT THE END OF THE INSTALLATION PHASE

12 ALL WORK BY THE CONTRACTOR SHALL BE DONE IN STRICT COORDINATION AND AS APPROVED BY THE OWNER ALL INTERRUPTIONS IN THE UNCTIONING OF THE FIRE SPRINKLER SYSTEM SHALL BE DONE DURING OFF-PEAK UNOCCUPIED TIMES OR STRICTLY AS APPROVED BY THE OWNER NOTIFICATION OF A SHUTDOWN TO THE FIRE SPRINKLER SYSTEM INCLUDING THE DURATION TIME SHALL BE MADE TO THE OWNER A MINIMUM OF SEVEN DAYS IN ADVANCE OF SUCH WORK AND COORDINATED ALSO WITH AHJ WHERE IN THE OPINION OF THE AHJ

I PARTIAL OR TOTAL DEMOLITION OF THE EXISTING FIRE SPRINKLER SYSTEM TAKES PLACE IN SITE AND SUCH DEMOLITION IS OF A HARSH AND/OR NATURE QUALIFIED PERSONNEL SHALL SERVE AS ON-SITE FIRE WATCH

1 THE CONTRACTOR SHALL BEAR ALL COSTS OF

A PREPARING SHOP DRAWINGS AND DOCUMENTS

B SECURING PERMITS AND APPROVALS

C LABOR

D MATERIALS

E CLEAN UP/WASTE REMOVAL

FIRE WATCH IN COORDINATION WITH AHJ REQUIRED

1 PIPING INSTALLATION

WHEN A MODIFICATION TO AND EXISTING FIRE SPRINKLER SYSTEM TAKES PLACE THE CONTRACTOR SHALL MATCH THE NEW COMPONENTS SUCH AS PIPE SCHEDULE MATERIALS FITTINGS SPRINKLERS VALVES ETC WITH THE EXISTING COMPONENTS ALREADY INSTALLED IN THE SYSTEM OR DISCONTINUED WITH TODAY'S EQUIVALENTS OBSERVED WHEN FIELD VERIFICATION TAKES PLACE THAT SHALL BE PER N PA 1 AHJ AND OWNER GUIDE LINES AND STANDARDS ANY WHICH IS ALSO RESPONSIBILITY OF THE CONTRACTOR VERIFY PREVIOUSLY TO BIDDING SUBMITTING PERMITTING COMMENCING AND INSTALLING ANY EXISTING PROJECT TO BE MODIFIED

WHEN THE INSTALLATION OF A NEW FIRE SPRINKLER SYSTEM TAKES PLACE THE CONTRACTOR SHALL PROPOSE THE PIPE SCHEDULE MATERIALS FITTINGS VALVES HANGERS ETC ACCORDING TO THE GUIDE LINES AND STANDARDS OF THE OWNER ANY WHICH SHALL BE ALSO RESPONSIBILITY OF THE CONTRACTOR VERIFY PREVIOUSLY TO BIDDING SUBMITTING PERMITTING COMMENCING AND INSTALLING ANY NEW WORK SUCH STANDARDS SHALL BE ALSO PER N PA 1 AND AHJ

THE FOLLOWING MATERIALS ARE SPECIFICATIONS AS PER N PA 1

A MAKE CHANGES IN SIZE OF PIPE WITH REDUCING FITTINGS BUSHINGS PERMITTED

B CAP OPENINGS IN PIPING DURING CONSTRUCTION

C ESCUTCHEONS EXPOSED PIPES PASSING THROUGH FLOORS WALLS OR CEILING WITH ESCUTCHEONS MANUFACTURE SPECIAL SIZES OF ESCUTCHEONS FROM SEEL AND PRIME COAT SAME CUT IN ROUND RECTANGULAR OR SQUARE SHAPES PROVIDE A CLEAN APPEARANCE ACCEPTABLE TO THE GAP

D PENETRATIONS THROUGH FIRE RATED WALLS SHOULD BE FILLED WITH LISTED FIRE SEALANT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO PROVIDE AT LEAST THE MINIMUM FIRE RATING OF THE PENETRATION

E CPVC PIPING SHALL NOT BE INSTALLED OVER ANY PARTITION OF THE OPENING AT RETURN AIR PLENUMS

ABOVEGROUND PIPE MATERIALS

1 SCHEDULE 40 OR 80 STEEL PIPE

2 SCHEDULE 40 OR 80 SIZES 2" AND LARGER

ALL EXPOSED PIPE AND FITTINGS EXPOSED TO AIR SHALL BE GALVANIZED

SCHEDULE PIPE GALVANIZED FITTINGS SHALL BE PAINTED AND HANG UP WITH STAINLESS STEEL HANGERS AS PER N PA 1 21.2 2101

SCHEDULE 80 OR 40 PIPE SHALL NOT EXCEED 1" IN LENGTH

G. UNDERGROUND PIPE MATERIALS

1. DUCTILE IRON MEETING ASTM C104 STANDARDS

2. CONCRETE MEETING AWWA C300 STANDARDS

3. CONCRETE MEETING AWWA C300 STANDARDS

4. CONCRETE MEETING AWWA C300 STANDARDS

CONTRACTOR GENERAL CONDITIONS NOTES

1 THE CONTRACTOR SHALL SUBMIT THIS WITH HIS PROPOSED SOLUTION IN A TIMELY MANNER CONTRACTOR RECOGNIZES THE CONSULTANT SHALL REQUIRE UP TO WORKING DAYS TO RESPOND

2 SUBMITTALS AND PRODUCT DATA CONTRACTOR SHALL PREPARE A SUBMITTAL SCHEDULE OR APPROVAL BY THE A/E CONTRACTOR RECOGNIZES THE CONSULTANT SHALL REQUIRE UP TO 10 WORKING DAYS TO REVIEW SUBMISSIONS ALL SUBMITTALS PRODUCT DATA SHALL BE CLEARLY STAMPED AND INDICATED APPROVED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE CONSULTANT

SHOP DRAWINGS CONTRACTOR SHALL PREPARE A SHOP DRAWING SCHEDULE OR APPROVAL BY THE A/E CONTRACTOR RECOGNIZES THE CONSULTANT SHALL REQUIRE UP TO 10 WORKING DAYS TO REVIEW SHOP DRAWINGS ALL SHOP DRAWINGS SHALL BE CLEARLY STAMPED AND INDICATED APPROVED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE CONSULTANT

LAYOUT AND COORDINATION DRAWINGS CONTRACTOR SHALL PREPARE SCALED COMPREHENSIVE COORDINATED LAYOUT DRAWINGS PROVIDE SECTIONS GENERAL ARRANGEMENTS ELEVATIONS INCLUDING ALL DISCIPLINES OR HIS PROPOSED LAYOUT AND ROUTING PRIOR TO ABRICATION SUBMIT TO OWNER AND A/E OR REVIEW AND GENERAL CONFORMANCE PROVIDE DRAWINGS THAT DEMONSTRATE VIA COORDINATED ELEMENTS AND SYSTEMS WITH STRUCTURE THAT CLEARLY INDICATE PROPOSED SYSTEMS WILL FUNCTION AS INTENDED BE OPERATED INTERFERENCES AND CONFORM TO REQUIRED CODE AND MANUFACTURER WORKING AND MAINTENANCE CLEARANCES

DEVIATIONS FROM BASIS OR DESIGN SYSTEMS SHALL BE CLEARLY IDENTIFIED ON ALL SUBMISSIONS

6 SUBSTITUTIONS

A CONTRACTOR SHALL PREPARE REQUESTS WITH COMPLETE COORDINATION INFORMATION INCLUDE ALL CHANGES REQUIRED IN OTHER ELEMENTS OF THE WORK TO ACCOMMODATE THE SUBSTITUTION INCLUDING WORK PERFORMED BY THE OWNER AND THE SEPARATE CONTRACTORS

B PROVIDE COMPLETE SUPPORTING DATA INCLUDING THE SUBSTITUTION COMPARED TO THE BASIS OR DESIGN SYSTEM PROVIDE A DETAILED LIST OF ANY VARIANCES PHYSICAL OR SPATIAL LAYOUTS ELEVATIONS ETC TO THE BASIS OR DESIGN

C PROVIDE A STATEMENT INDICATING THE EFFECT THE SUBSTITUTION WILL HAVE ON THE WORK SCHEDULE IN COMPARISON TO THE SCHEDULE WITHOUT APPROVAL OF THE PROPOSED SUBSTITUTION INCLUDE INFORMATION REGARDING THE EFFECT OF THE PROPOSED SUBSTITUTION ON THE CONTRACT TIME

D PROVIDE CERTIFICATION BY THE CONTRACTOR TO THE EFFECT THAT IN THE CONTRACTOR'S OPINION AFTER THOROUGH EVALUATION THE PROPOSED SUBSTITUTION WILL RESULT IN WORK THAT IN EVERY SIGNIFICANT RESPECT IS EQUAL TO OR BETTER THAN THE WORK REQUIRED BY THE CONTRACTOR DOCUMENTS AND THAT IT WILL PERFORMADEQUATELY IN THE APPLICATION INDICATED

E CONSULTANT'S EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR OR APPROVED BY THE OWNER SHALL BE COMPENSATED TO THE CONSULTANT BY THE CONTRACTOR

AS-BUILT DRAWINGS THE CONTRACTOR SHALL MAINTAIN AND PREPARE A COMPLETE AND ACCURATE SET OF AS-BUILTS DURING THE PROJECT AND ISSUE TO THE A/E AND OWNER AT PROJECT CLOSEOUT DURING THE COURSE OF THE PROJECT THE CONTRACTOR SHALL ISSUE SKETCHES OR SCALED DRAWINGS OR FIELD CHANGES THAT ARE PROPOSED OR MADE WHICH VARY FROM THE BASIS OR DESIGN CONSULTANT EXPENSES THAT ARE INCURRED DUE TO SERVICES OR REVISIONS REQUIRED BY BUILDING DEPARTMENT OWNER CONTRACTOR AND MANUFACTURER SHALL BE COMPENSABLE TO THE CONSULTANT BY THE CONTRACTOR

8 INSTALLATION TESTING AND BALANCING START UP COMMISSIONING AND PERFORMANCE TROUBLESHOOTING OF SYSTEMS- CONTRACTOR RECOGNIZES HE IS SOLELY RESPONSIBLE FOR PERFORMANCE AND COMPLETION OF THESE SERVICES AS PART OF THE PROJECT REQUIREMENTS DURING THE COURSE OF THE PROJECT THE CONTRACTOR SHALL DOCUMENT THE SERVICES COMPLETELY TO THE OWNER AND A/E CONSULTANT EXPENSES THAT ARE INCURRED DUE TO SUPPORTING SERVICES OR REVISIONS REQUIRED BY BUILDING DEPARTMENT OWNER CONTRACTOR AND MANUFACTURER SHALL BE COMPENSABLE TO THE CONSULTANT BY THE CONTRACTOR

GENERAL NOTES

- THE PIPING EQUIPMENT MATERIALS INSTALLATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NFPA 13, 2013
- ALL MATERIALS TO BE UL LISTED
- ALL PIPE AND FITTINGS TO BE BLACK STEEL MAINS TO BE SCH. 10 AND BRANCH LINES XL
- ALL HANGERS TO BE SPACED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND NFPA 13 2013. FIRE SPRINKLER PIPE TO BE SUPPORTED WITH TOP BEAM CLAMPS
- ALL CONTROL VALVES TO BE PROPERLY IDENTIFIED AND ELECTRONICALLY SUPERVISED PER NFPA 13 2013.
- ALL MATERIALS TO BE UL LISTED AND/OR FACTORY MUTUAL APPROVED FOR FIRE PROTECTION SERVICE.
- ALL UNDERGROUND PIPING IS EXISTING.
- ALL PAINTING OF PIPE AND ELECTRICAL WIRING OF DEVICES TO BE DONE BY OTHERS.
- ALL PIPING SHALL BE PRESSURE TESTED AT 200 PSI FOR A PERIOD OF 2 HOURS.
- SEE SPRINKLER LEGEND FOR DESCRIPTIONS. SPARE HEAD BOX TO BE LOCATED AT RISER LOCATION.
- MAINTENANCE OF THE FIRE SPRINKLER SYSTEM IS THE RESPONSIBILITY OF THE OWNER. A COPY OF NFPA 25 WILL BE PROVIDED UPON COMPLETION OF THE PROJECT.
- ALL WORK INSTALLED BY SPRINKLER CONTRACTOR SHALL BE WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE THE EQUIPMENT IS PLACED IN SERVICE.
- SPARE SPRINKLERS SHALL BE PROVIDED AT THE RISER LOCATION PER NFPA 13 2013
- 24.2.1.4 MODIFICATIONS AFFECTING 20 OR FEWER SPRINKLERS SHALL NOT REQUIRE TESTING IN EXCESS OF SYSTEM WORKING PRESSURE.
- EXISTING PIPE ELEVATION 16'-6" +/-
- HATCH AREA FULLY SPRINKLERED NOT IN CONTRACT

DESIGN CRITERIA

LIGHT HAZARD: .10/GPM OVER 1500 SQ.FT. 225 MAX SPACING PER HEAD WITH 100/GPM FOR HOSE ALLOWANCE

BAY 101

O.H. GROUP 1: .15/GPM OVER 1500 SQ.FT. 130 MAX SPACING PER HEAD WITH 250/GPM FOR HOSE ALLOWANCE

ELECTRICAL ROOM, RISER ROOM

O.H. GROUP 2: .20/GPM OVER 1500 SQ.FT. 130 MAX SPACING PER HEAD WITH 250/GPM FOR HOSE ALLOWANCE

BAY 102

NFPA 13, 2013 PERURE 11.2.3.2.3.1 DESIGN FOR REDUCTION FOR QUICK RESPONSE SPRINKLERS, WHEN CEILING IS LESS THAN 20'-0" A.F.F

FIRE PROTECTION SHEET INDEX

SHEET #	DESCRIPTION
FS0.1	FIRE PROTECTION NOTES AND SPECS
FS1.1	FIRE PROTECTION DETAILS
FS1.2	FIRE PROTECTION PLAN

FAC 61G15 FIRE PROTECTION NOTE

FIRE PROTECTION ON THIS PLAN SHOWN OR DESIGN CRITERIA INTENT ONLY DRAWINGS DO NOT REPRESENT DEVICES OR A COMPLETE SYSTEM OR FUNCTIONS THAT ARE REQUIRED BY THE AHJ / FIRE MARSHAL CONTRACTOR SHALL DESIGN / BUILD THE FIRE PROTECTION SYSTEM AND ENGAGE HIS INDEPENDENT DELEGATED FLORIDA REGISTERED PROFESSIONAL ENGINEER AND SEAL WORKING DRAWINGS IN ACCORDANCE WITH FAC 61G15 THE DESIGN / BUILDER TEAM SHALL ISSUE FIRE PROTECTION PERMIT DRAWINGS TO THE DESIGN / BUILDER TEAM SHALL ISSUE DESIGN CALCULATIONS WIRING DIAGRAMS AND PROTECTIVE DATA COORDINATING TO THE DESIGN / BUILDER TEAM SHALL SUBMIT THE SIGNED AND SEALED DRAWINGS AND DATA TO THE LOCAL BUILDING DEPARTMENT AND ENGINEER AS A SHOP DRAWING SUBMISSION FOR REVIEW THE DESIGN / BUILDER SHALL MEET WITH AGENCIES SUBMIT THEIR COMPLETE DRAWING AND DATA TO THE AGENCY REQUIRED TO ACHIEVE A PERMIT AND CELEBRATE OCCUPANCY

THE FIRE PROTECTION SYSTEM DESIGN FOR THIS PROJECT SHALL BE IN FULL ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE CHAPTER 61G1 - 2 AS IT RELATES TO "DELEGATED ENGINEER" THE FIRE PROTECTION CONTRACTOR SHALL PROCURE THE SERVICES OF A FLORIDA REGISTERED ENGINEER WHO WILL ACT AS THE DELEGATED ENGINEER OR FIRE PROTECTION SYSTEM DESIGN BASED ON THE DESIGN INTENT OF THE CONTRACT DOCUMENTS THE DELEGATED ENGINEER WILL BECOME THE "ENGINEER OF RECORD" OR THIS INTENTION OF FIRE PROTECTION SYSTEM OF THE ENGINEERING PROJECT THE DELEGATED ENGINEER SHALL CONFORM TO ALL REQUIREMENTS SET FORTH IN THE FLORIDA ADMINISTRATIVE CODE 61G1 - 2 "DELEGATED ENGINEER'S RESPONSIBILITY" ALL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER DELEGATED ENGINEER SHALL BE THE FIRE PROTECTION SUCCESSOR ENGINEER OF RECORD FOR THE PROJECT

GENERAL NOTE

CONTRACTOR IS CAUTIONED THAT THE BIDDING ENGINEERING GROUP FIRE PROTECTION DRAWINGS ARE PERFORMANCE AND DIAGRAMMATIC ONLY CONTRACTOR RECOGNIZES THAT THE FIRE SPRINKLER CONTRACTOR IS WORKING AND PERMIT DESIGN DRAWINGS WILL REQUIRE POSSIBLE ADDITIONS AND ADJUSTMENTS TO HEAD LOCATIONS PIPING CROSSINGS AND PIPING ROUTINGS NECESSITATING ADDITIONS AND ADJUSTMENTS TO CEILING SIZES AND CAREFUL COORDINATION WITH OTHER STRUCTURAL ELEMENTS AND UTILITIES CONTRACTOR SHALL ADVISE ARCHITECT DURING THE BIDDING PROCESS

Other Plans @ WWW.SBLM.com

DATE 06/21/2018

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Revisions/Issues

NO.	DATE	DESCRIPTION
06/21/18	PERMIT SET	

Key Plan



Seal

James L. Cohen AR0015903
Project Title
SOUTHERN PALM CROSSING
BUILDING SHELL
11001-11161 Southern Blvd.
Royal Palm Beach , FL. 33411

Job Number 017512.00
Drawing
FIRE SPRINKLER COVER SHEET
Scale AS SHOWN
Drawing Date 05/16/18

Drawing No.

FS0.1