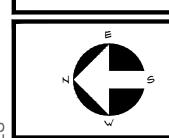
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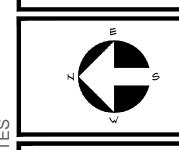


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Revisions:

Project Architect:



61G15-32-SPRINKLER DOCUMENT COMPLIANCE NOTES

61G15-32.003 (1) (2) (3)

1. <u>SCOPE OF WORK:</u>

SHALL BE AUTOMATIC WET-PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA13. EXISTING SPRINKLER SYSTEM IS SUPPLIED BY A FIRE SERVICE. BUILDING CONTAINS BOTH LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 HAZARDS AS

2. ACCEPTANCE TEST CRITERIA:

FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA 13, 2010 EDITION AND SHALL COMPLY WITH THE LOCAL FIRE MARSHAL AND ALL AUTHORIZES HAVING JURISDICTION. THE ACCEPTANCE TESTING OF THE FIRE SPRINKLER SYSTEM AND IT'S COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THESE TWO FORMS, NFPA 13, 2010 EDITION CHAPTER 10 (FIG. 16.1) CHAPTER 8,14, AND 16

CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING. SEE NFPA13, 2010 EDITION CHAPTER 24 FOR SYSTEM ACCEPTANCE AND CHAPTER 26 FOR INSPECTION, TESTING AND MAINTENANCE.

A. CHAPTER 24, SYSTEM ACCEPTANCE B. 24.1 APPROVAL OF SPRINKLER SYSTEM

C. 24.2 ACCEPTANCE REQUIREMENTS

D. 24.3 CI 16.4 INSTRUCTION

E. 24.4 INSTRUCTION F. 24.5 HYDRAULIC DESIGN INFORMATION SIGNS

G.10.8.3.2.3 CONTRACTORS MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING

61G15-32.004 (2) (A-J)

A. POINT OF SERVICE:

THE POINT OF SERVICE ORIGINATES AT WATER MAIN .

B. APPLICABLE CODES AND STANDARDS TO BE APPLIED:

FLORIDA BUILDING CODE 2014

FLORIDA FIRE PREVENTION CODE 2014

NFPA13, 2010 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM

NFPA14, 2010 EDITION, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM NFPA20, 2010 EDITION, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

NFPA24, 2010 EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

C.CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OF AREA: LIGHT HAZARD: ALL AREAS OF BUILDING UNLESS NOTED OTHERWISE.

ORDINARY HAZARD GROUP1: STORAGE ROOMS, MECHANICAL ROOMS, PARKING AREA, ELECTRICAL/DATA ROOMS, JANITOR'S CLOSETS AND AS NOTED ON DRAWINGS.

SPRINKLER SYSTEM TO EXTEND INTO ALL AREAS IN ACCORDANCE WITH NFPA13. UL LISTED AND APPROVED SIDEWALL, UPRIGHT AND PENDENT SPRINKLER HEADS WITH STANDARD ORIFICE AND ORDINARY TEMPERATURE SHOULD BE USED. ONLY AREA/ DENSITY DESIGN METHOD IN ACCORDANCE WITH NFPA13 SHOULD BE USED. SPECIAL DESIGN APPROACHES LISTED IN NFPA13 ARE NOT ALLOWED.

LIGHT HAZARD

D. <u>DESIGN APPROACH</u>

SYSTEM TYPE: WET-PIPE AUTOMATIC SPRINKLERS SYSTEM, USING NFPA APPROVED SUPPLY PIPING TO NEW QUICK RESPONSE, STANDARD SPRAY SPRINKLER HEADS. RECESSED SPRINKLER HEADS SHALL BE INSTALLED IN ALL FINISH CEILING, UPRIGHT SPRINKLERS IN EXPOSED CEILINGS AND SIDEWALL SPRINKLERS AS NOTED ON DRAWINGS.

K-FACTOR: 5.3 - 5.8 (STANDARD)

DENSITY: 0.10 GPM/SQ.FT. OR 0.15 GPM/SQ.FT. OR 0.2 GPM/ SQFT

AREA OF OPERATION: 900 SQ.FT. MIN. AND 1500 SQ.FT. MAX. (DESIGN AREA REDUCTION MAY ONLY BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA13, 2010 EDITION).

HEAD TEMPERATURE RATING: ORDINARY TEMPERATURE (135-170 DEGREE F) UNLESS NOTED OTHERWISE ON DRAWINGS.

SPACING: 225 SQ.FT. MAX PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.

ORDINARY HAZARD GROUP 1

SYSTEM TYPE: WET-PIPE AUTOMATIC SPRINKLERS SYSTEM, USING NFPA APPROVED SUPPLY PIPING TO NEW QUICK RESPONSE, STANDARD SPRAY SPRINKLER HEADS. CONCEALED SPRINKLER HEADS WITH WHITE COVERS SHALL BE INSTALLED IN A FINISH CEILING, UPRIGHT SPRINKLERS IN EXPOSED CEILINGS AND PARKING AREA AND SIDEWALL SPRINKLERS AS NOTED ON DRAWINGS.

K-FACTOR: 5.3 - 5.8 (STANDARD)

DENSITY: 0.15 GPM/SQ.FT. OR 0.2 GPM/ SQFT

AREA OF OPERATION: 900 SQ.FT. MIN. AND 1500 SQ.FT. MAX. (DESIGN AREA REDUCTION MAY ONLY BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA13, 2010 EDITION).

HEAD TEMPERATURE RATING: ORDINARY TEMPERATURE (135-170 DEGREE F) UNLESS NOTED OTHERWISE ON DRAWINGS. SPACING: 130 SQ.FT. MAX PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.

E. VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:

ALL WATER CONTROL VALVES SHALL BE INDICATING TYPE AND ELECTRICALLY SUPERVISED BY THE BUILDING'S FIRE ALARM SYSTEM. EVERY SPRINKLER ZONE WILL BE APPROVED WITH FLOW SWITCHES, WHICH WILL BE SUPERVISED BY THE FIRE ALARM SYSTEM. BRANCH PIPING SERVING SPRINKLER HEADS IN ELEVATOR SHAFT OR ELEVATOR MACHINE ROOM SHALL BE PROVIDED WITH INDICATING TYPE CONTROL VALVE AND ELECTRONICALLY SUPERVISED.

F.MICROBIAL INDUCED CORROSION (MIC):

DELEGATED ENGINEER (ENGINEER OF RECORD FOR THE SPRINKLER SYSTEM) SHALL CONTACT THE LOCAL WATER PURVEYOR IF CONDITIONS EXIST IN THEIR WATER SUPPLY THAT COULD LEAD TO MIC. IF SO, DELEGATED ENGINEER SHALL INCORPORATE CORRECTIVE MEASURES IN THE FIRE PROTECTION DESIGN.

G.BACKFLOW PREVENTION AND METERING SPECIFICATIONS: THE BACKFLOW PREVENTION DEVICE ASSEMBLY AND METERING EQUIPMENT WILL MEET THE REQUIREMENTS OF THE LOCAL WATER PURVEYOR. SEE CIVIL FOR ADDITIONAL INFORMATION. VALVES ON BACKFLOW PREVENTER SHALL BE

ELECTRONICALLY SUPERVISED BY THE BUILDING'S FIRE ALARM SYSTEM. H. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL FIRE PROTECTION COMPONENTS:

ALL NEW FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND FM APPROVED.

THE FIRE PROTECTION SYSTEM DESIGN FOR THIS PROJECT SHALL BE IN FULL ACCORDANCE WITH PROVISIONS OF THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 61 G15-30 AS IT PERTAINS TO "DELEGATED ENGINEER" THE FIRE PROTECTION CONTRACTOR SHALL PROCURE THE SERVICES OF A FLORIDA REGISTERED ENGINEER WHO WILL ACT AS THE DELEGATED ENGINEER FOR THE FIRE PROTECTION SYSTEM DESIGN BASED ON THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. THE DELEGATED ENGINEER WILL BECOME THE ENGINEER OF RECORD FOR THIS PORTION (FIRE PROTECTION SYSTEM) OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER'S SHALL CONFORM TO ALL REQUIREMENTS SET FORTH IN THE FLORIDA ADMINISTRATIVE CODE, 61 G15-3-.006" DELEGATED ENGINEER'S RESPONSIBILITY". ALL FINAL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER.

FIRE SPRINKLER NOTES & SPECS

. SPRINKLER SYSTEM SHALL BE INSTALLED BY AN APPROVED AUTOMATIC FIRE SPRINKLER CONTRACTOR.

2. SYSTEM SHALL COMPLY WITH N.F.P.A. 13, 14, 16 & THE LOCAL CODES. ALL EQUIPMENT USED IN THIS INSTALLATION SHALL BE "FACTORY MUTUAL" APPROVED AND INSTALLATION DETAILS SHALL CONFORM TO F.M.E.A. RECOMMENDED GOOD PRACTICES.

3. NO COMBUSTIBLE OCCUPANCY SHALL BE INTRODUCED INTO THE AREA UNTIL THE AUTOMATIC SPRINKLERS ARE INSTALLED AND IN FULL SERVICE.

4. ALL AREAS WITH DROPPED CEILINGS SHALL HAVE RECESSED PENDENT SPRINKLER

5. IN ALL FINISHED AREAS WITH DROPPED CEILINGS HEADS SHALL BE INSTALLED VISUALLY STRAIGHT AND NOT LESS THAN 6" FROM EDGE OF TILE.

6. ALL AREAS WITH EXPOSED F.S. PIPING SHALL HAVE CORROSION RESISTANT COATED BRASS UPRIGHT HEAD.

7. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE POLISHED CHROME PLATED WITH

8. ALL MATERIALS AND ADDED HEADS MUST BE NEW & SHALL BE SAME MANUFACTURER AS EXISTING HEADS. EXISTING HEADS TO BE RELOCATED OR REMOVED SHALL BE DISCARDED.

9. ALL PIPE ELEVATIONS AND HEAD LOCATIONS ARE TO BE COORDINATED WITH

10. PIPE SIZE TO BE HYDRAULICALLY DESIGNED AS PER N.F.P.A. 13.

11. ALL FITTINGS TO BE BLACK CAST IRON.

12. ALL PIPING 2 1/2" & LARGER TO BE BLACK STEEL SCHEDULE 10 AND ALL PIPING 2" & SMALLER TO BE BLACK STEEL SCHEDULE 10 OR THREADABLE XL AS PER

13. ALL PIPING TO BE HYDROSTATICALLY TESTED AT 200 P.S.I. FOR 2 HOURS AS PER N.F.P.A. 13.

14. ALL PIPING TO BE FLUSHED AS PER N.F.P.A. 13

WITH N.F.P.A. 13

SECTION 6-1.

15. ALL VALVES TO BE U.L. LISTED WITH TAMPER SWITCH (UNLESS

NOTED OTHERWISE) AND COMPLY WITH N.F.P.A. 13 16. ALL MATERIALS AND DEVCES TO BE U.L. LISTED AND COMPLY

17. HANGERS SHALL BE IN ACCORDANCE WITH N.F.P.A. 13, 1999 EDITION

18. THE FIRE PROTECTION CONTRACTOR SHALL CONSULT THE STRUCTURAL ENGINEER PRIOR TO USING POWDER DRIVEN STUDS OR PIERCING STEEL BEAMS OR COLUMNS.

19. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTS.

20. CONTRACTOR SHALL SUBMIT 4 COPIES OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS S/S BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER COORDINATED WITH ELECTRICAL AND A/C CONTRACTOR SHOP DRAWINGS FOR

21. PROVIDE A 24 HEAD SPRINKLER HEAD CABINET WITH WRENCH AND STANDARD RED ENAMEL FINISH.

BUILDING DEPARTMENT APPROVAL AND ARCHITECT/ ENGINEER REVIEW

22. ALL EXPOSED VISIBLE PIPING SHALL BE PAINTED RED OR AS RECOMMENDED BY ARCHITECT.

23. THE HYDRAULICALLY CALCULATED SYSTEM SHALL BE IDENTIFIED BY A PERMANENT PLACARD ATTACHED TO THE BASE OF THE RISER INDICATING

24. ALL WELDED FITTINGS USED IN THIS INSTALLATION SHALL CONFORM TO

THE DESIGN CHARACTERISTICS OF THE SYSTEM.

F.M.R.C. STANDARDS.

25. COORDINATE WITH "OWNER'S" STANDARD SPECS FOR ALL ADDITIONAL

INFORMATION AND REQUIREMENTS REGARDING THE FIRE PROTECTION SYSTEM. 26. WHERE CORROSIVE CONDITIONS EXIST OR SPRINKLERS & PIPING ARE EXPOSED TO THE WEATHER, CORROSION TYPE MATERIAL OR PROTECTIVE CORROSION COATINGS SHALL

27. ALL UPRIGHT SPRINKLERS SHALL BE INSTALLED PARALLEL TO BRANCH PIPING.

28. WHEN THE AUTOMATIC SPRINKLER SYSTEM IS REQUIRED TO BE OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED, AND THE BUILDING SHALL BE EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL PARTIES LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE SPRINKLER SYSTEM HAS BEEN RETURNED TO SERVICE.

29. WHERE CONDITIONS ARE FOUND THAT CONTRIBUTES TO MICROBIOLOGICALLY INFLUENCED CORROSION (MIC), PLANS SHALL BE DEVELOPED BY THE OWNERS TO TREAT THE SYSTEM USING ONE OF THE

FOLLOWING METHODS AS PER NFPA 13:

PIPE AT ESTABLISHED TIME INTERVALS AND LOCATIONS.

1. INSTALL A WATER PIPE THAT WILL NOT BE AFFECTED BY THE MIC MICROBES. 2. TREAT ALL WATER THAT ENTERS THE SYSTEM USING AN APPROVED BIOCIDE 3. IMPLEMENT AN APPROVED PLAN FOR MONITORING THE INTERIOR CONDITIONS OF THE

31. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.

32. SPRINKLER SHOP DRAWINGS(WORKING DRAWINGS), HYDRAULIC CALCULATIONS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHAL AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SEALED BY A QUALIFIED ENGINEER IN GOOD STANDINGS WITH THE STATE OF FLORIDA.

3. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES. PIPE SIZING SHOWN SHALL BE CONSIDERED AS MINIMUM PIPE SIZE REQUIRED UNLESS SHOWN OTHERWISE BY CONTRACTOR'S HYDRAULIC CALCULATIONS.

4. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.

35. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.

eta. SPRINKLERS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA13 AND THE LISTING OF THE SPRINKLER. ALL CEILING DEVICES INCLUDING DIFFUSERS, SPEAKERS AND LIGHTS SHALL HAVE FIRST PRIORITY ON CEILING POSITION. COORDINATE WITH ALL OTHER TRADES.

37. SPRINKLERS LOCATIONS SHALL BE CENTERED IN THE TILE. PROVIDE ARMOVER OF SWING JOINT AS REQUIRED.

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

9. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALL, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING, OR FLOORS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.

40. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES. ACCESS PANELS SHALL HAVE CONCEALED HINGES AND FINISHED TO MATCH THE CEILING FINISH.

41. PROVIDE A PERMANENTLY ATTACHED NAME TAG TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY-DESIGNED SYSTEM.

2. PROVIDE SPRINKLERS UNDERNEATH ALL OBSTRUCTION INCLUDING EXPOSED DUCTWORK WHICH IS OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA13 HEADS UNDER DUCTS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDE IN ACCORDANCE WITH NFPA13. SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED

43. PROVIDE SPRINKLERS GUARDS ON ALL HEADS IN MECHANICAL ROOMS, STORAGE ROOMS, ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY HEADS LESS THAN 7'-0"ABOVE THE FLOOR.

44. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA13.

45. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMER, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES ANY PIPING RUN OVER

46. WET BULK SUPPLY MAINS AND HOSE SUPPLY MAINS EXPOSED TO THE WEATHER SHALL BE INSULATED AND

ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.

PROVIDED WITH AN ALUMINUM JACKET.

INTERMEDIATE TEMPERATURE (212 DEGREE F).

48. PAINT ALL PIPING, INCLUDING HANGERS, FITTINGS, ECT. EXPOSED TO THE PUBLIC, COORDINATE COLOR WITH ARCHITECT.

47. PROVIDE AUXILIARY DRAINS TO DRAIN ALL SECTIONS OF PIPING IN THE BUILDING AS REQUIRED BY NFPA13.

9. THE FIRE PROTECTION SYSTEM AND INFORMATION SHOWN WITHIN THESE DRAWINGS AND THE SPECIFICATIONS, REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD. 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 NFPA13, 8-1, WORKING PLANS AND BE SEALED BY A QUALIFIED ENGINEER LICENSED IN THE STATE OF FLORIDA.

19. SPRINKLER HEADS LOCATED IN ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS MUST BE INSTALLED WITHIN 2

FEET OF HEAT DETECTOR. COORDINATE CLOSELY WITH FIRE ALARM CONTRACTOR. SPRINKLER HEADS SHALL BE

INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND

THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING

THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED.

NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF

FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED.

RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION.

NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

48. ALL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND ALL ZONES SHALL BE PROVIDED WITH FLOW SWITCHES WIRED TO THE FIRE ALARM SYSTEM.

PERMIT / BID SET: 09/07/16

700 WEST HILLSBORO BLVD. - BLDG. #1, SUITE 204

PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DEERFIELD BEACH, FLORIDA 33441 TEL: (561) 391-9292 FAX: (561) 391-9898 CERTIFICATE OF AUTHORIZATION NO. 28107 URSULA IAFRATE, P.E. LICENSE #73122 STEPHEN F. ROLLIN, P.E. LICENSE #36428 DONALD H. AUSTIN, JR., PE LICENSE #60651 JASON BARBER, P.E. LICENSE #73050 E-MAIL: INFO@FAECONSULTING.COM PM: BJ P/N 15434 DESIGNED BY: BJ/SK/JS

09.09.16 BID/PERMIT