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FIRE PROTECTION SPECIFICATIONS:

REGULATION REQUIREMENTS: SYSTEM SHALL COMPLY WITH:
FLORIDA BUILDING CODE 5TH ED. & FLORIDA FIRE PREVENTION CODE 2014, WITH ALL UPDATES
FLORIDA ADMINISTRATIVE CODE # 61G15–32.004
2010 NFPA 13 – STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS.
UL AND FM COMPLIANCE
LOCAL CODES AND ORDINANCES

SCOPE: THE WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO INSTALL AN AUTOMATIC SPRINKLER SYSTEMS FOR THE BUILDING.

THE DOCUMENTS HEREIN ARE TO PROVIDE SYSTEM REQUIREMENTS & SPECIFICATION CRITERIA. CONTRACTOR SHALL DESIGN THE PIPING AS REQUIRED BY LOCAL CODES AND NFPA–13.

SYSTEM DESCRIPTION: FIRE PROTECTION SYSTEM IS A WET PIPE SYSTEM EMPLOYING AUTOMATIC SPRINKLERS ATTACHED TO A PIPING SYSTEM. WET PIPING SYSTEM CONTAINS WATER TO PROVIDE THE REQUIRED WATER FLOW AND PRESSURE REQUIRED BY NFPA–13.

PERMITS: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS, SUBMITTAL AND APPROVALS ASSOCIATED WITH THIS WORK.

SHOP DRAWINGS SUBMITTAL AND APPROVALS: THIS CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS & HYDRAULIC CALCULATIONS OF SYSTEM AS SPECIFIED HEREIN. SUBMIT DETAILED PRODUCT DATA ON EACH PRODUCT AND ACCESSORY.

GENERAL INSTALLATION: ALL MATERIALS AND EQUIPMENT UTILIZED TO BE IN ACCORDANCE WITH THE STANDARDS SET FORTH BY NFPA. ALL EQUIPMENT SHALL BE UL LISTED AND APPROVED FOR THE INTENDED APPLICATION.

UNDERGROUND: WATER SERVICE LINE TO A POINT 1'–0" ABOVE SLAB WITH FLANGED CONNECTION IN BUILDING SHALL BE FURNISHED BY SITE FIRE LINE INSTALLATION CONTRACTOR.

QUALITY ASSURANCE: INSTALLATION AND ALTERATION OF FIRE PROTECTION PIPING, EQUIPMENT, SPECIALTIES AND ACCESSORIES, AND REPAIR AND SERVICING SHALL BE PERFORMED ONLY BY A QUALIFIED INSTALLER. THE TERM QUALIFIED MEANS EXPERIENCED IN SUCH WORK (EXPERIENCED MEANS HAVING A MINUMUM OF FIVE YEARS EXPERIENCE SPECIALIZING IN FIRE PROTECTION SYSTEMS SIMILAR IN SIZE AND SCOPE TO THIS PROJECT). FAMILIAR WITH ALL PRECAUTIONS REQUIRED AND HAS COMPLIED WITH ALL THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. UPON REQUEST, SUBMIT EVIDENCE OF SUCH QUALIFICATIONS TO THE ARCHITECT.

SYSTEM DESIGN:
1. ORD. HAZARD, GROUP–2 OCCUPANCY. 0.2–GPM/1,500–SQFT
MAX. COVERAGE AREA PER HEAD = 130–SQFT MAX HEAD SPACING = 15–FT.
ALLOW FOR 250–GPM HOSE STREAM (INSIDE/OUTSIDE)

2. PROVIDE NECESSARY DEVIATION IN THE PIPE ROUTING AND ARRANGEMENTS TO ACCOMMODATE FIELD CONDITIONS. INCLUDE ADDTIONAL FITTINGS, HANGER AND ACCESSORIES REQUIRED FOR THESE OFFSETS.
3. MAKE MODIFICATIONS TO THE SYSTEM TO COMPLY WITH AUTHORITIES HAVING JURISDICTION.

4. HYDRANT FLOW TEST: HAS BEEN REQUESTED AND RESULTS WILL BE DISTRIBUTED TO CONTRACTOR.

VALVES:
1. INDICATING TYPE BUTTERFLY OR O.S.&Y. VALVE: UL LISTED SUITABLE FOR ELECTRIC TAMPER SWITCH INSTALLATION. PROVIDE LOCKING CHANIN ON VALVE IN ACCORDANCE WITH NFPA–13.
2. CHECK VALVE: UL LISTED FOR FIRE PROTCTION SYSTEMS.

ALL VALVES ON THE FIRE SPRINKLER SYSTEM TO BE SUPERVISED BY FIRE ALARM SYSTEM. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FIRE ALARM CONTRACTOR, THE TYPE AND LOCATION OF FLOW, PRESSURE AND SUPERVISORY SWITCHES.

SPRINKLERS:
IN GENERAL USE UPRIGHT, SIDEWALL, SEMI–RECESSED & FLUSH PENDANTS TYPE SPRINKLERS WITH 1/2" MINIMUM ORIFICE AND TEMPERATURE CLASSIFICATIONS IN ACCORDANCE WITH NFPA–13. USE PENDANT HEADS WHERE ABLE. USE SIDEWALL HEADS WHERE SPACE CONDITIONS PREVENT PENDANTS. PROVIDE WIRE GUARDS IN MECHANICAL AND ELECTRICAL ROOMS. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE & ORDINARY DEGREE RATING.
PROVIDE STOCK OF SPARE SPRINKLERS IN ACCORDANCE WITH NFPA 13.
COORDINATE LOCATION OF HEADS WITH LIGHTING FIXTURES AND ROOF STRUCTURE.
LOCATE HEADS IN CENTER OF 2X2 OR 2X4 TILES, OR SYMETRICALLY WITH CEILING LAYOUT.

PIPING:
SCHEDULE 10 (2" AND LARGER) OR SCHEDULE 40 BLACK STEEL MAINS AND BRANCHES. MECHANICAL PIPE, FITTINGS, COUPLING, AND ACCESSORIES SHALL BE UL LISTED FOR FIRE PROTECTION SYSTEMS. ALL EXPOSED PIPING SHALL BE BLACK STEEL PAINTED WITH RUST PROTECTIVE PAINTING; COLOR TO BE COORDINATED WITH THE ARCHITECT.

FIRE PROTECTION ACCESSORIES:
1. TAMPER SWITCH: UL LISTED FOR MOUNTING ON MAIN VALVE. WIRING BY ELECTRICAL CONTRACTOR.
2. FLOW SWITCH: UL LISTED. MOUNT ON EACH FLOOR. WIRING BY ELECTRICAL CONTRACTOR.
3. ELECTRICAL ALARM BELL: UL LISTED AND SUITABLE FOR FIRE PROTECTON SERVICE LOCATED OUTDOORS, ALARM CONTACTS AND ACCESSORIES. WIRING BY ELECTRICAL CONTRACTOR.
4. FIRE DEPARTMENT CONNECTION. COORDINATE WITH THE FIRE MARSHAL FOR LOCATION ON BUILDING OR BACKFLOW PREVENTER.

INSTALLATION:
1. INSTALL IN ACCORDANCE WITH NFPA–13, AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
2. COORDINATE ELECTRICAL WIRING OF ALARM BELL, FLOW SWITCH AND TAMPER SWITCH WITH ELECTRICAL WORK (DIVISION 16).
3. INSTALL INSPECTOR' TEST CONNECTION IN ACCORDANCE WITH NFPA–13.
4. INSTALL PIPING TO PROVIDE FOR SYSTEM DRAINAGE. PROVIDE MAIN AND AUXILIARY DRAINS IN ACCORDANCE WITH NFPA–13.
5. PROVIDE ADDITIONAL ACCESSORY STEEL ANGLES AND SUPPORTS, AS REQUIRED, FOR SUPPORT OF PIPING AND ACCESSORIES.
6. CONCEAL PIPING WHERE REQUIRED (SUCH AS ABOVE CEILINGS AND WITHIN FINISHED WALLS).
7. COORDINATE WITH DEVICES OF OTHER TRADES (SUCH AS DIFFUSERS, LIGHTS, PLUMBING DEVICES).
8. PROVIDE PERMANENT IDENTIFICATION AT EACH SYSTEM RISER INDICATING SYSTEM DESIGN INFORMATION, IN ACCORDANCE WITH NFPA–13.
9. HANGERS AND SUPPORTS SHALL COMPLY WITH REQIRMENTS OF NFPA–13.
TESTING: FLUSH, TEST AND INSPECT SPRINKER PIPING SYSTEMS IN ACCORDANCE WITH NFPA–13.
10. INSTALL PIPING MAINS AND BRANCHES UP WITHIN ROOF FRAMING SYSTEM TO ALLOW FOR DUCTWORK AND HIGH CEILINGS.

REPLACE PIPING SYSTEMS COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED AND RETEST REPAIRED PORTIONS OF THE SYSTEM.

CONDUCT PIPE TESTS BEFORE JOINTS ARE COVERED AND AFTER THRUST BLOCKS HAVE HARDENED.

CONDUCT HYDROSTATIC TESTS PER REQUIREMENTS OF NFPA–13.

PROVIDE FIRE RATED SLEEVES AND FIRE STOP ALL PENETRATIONS OF RATED WALLS.

LOCATE PIPE HANGERS IN ACCORDANCE WITH NFPA 13.

NOTE: ALL SPRINKLER PIPE SIZES, INCLUDING BRANCH PIPING SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.

FLORIDA ADMINISTRATIVE CODE 61G15-32.004

SYSTEM TO COMPLY THE FLORIDA ADMINISTRATIVE CODE# 61G15–32.004, #2 (A–J):

(2).(A) POINT OF SERVICE: NEW 8" FIRE MAIN – LOCATION SHOWN ON SITE PLAN

(2).(B) NFPA–13, 2010 ED. IS THE STANDARD TO BE UTILIZED.

(2).(C) HAZARD OCCUPANCY: ORDINARY HAZARD GROUP 2 (RETAIL/SALES)

(2).(D) DESIGN APPROACH: WATER BASED WET SYSTEM UTILIZING A LOCAL WATER SUPPLY SOURCE. (SEE 'C' ABOVE FOR DENSITIES UTILIZED, AND SEE SPRINKLER LEGEND ON FLOOR PLAN FOR TEMPERATURE RATINGS & SPACING ALLOWED FOR SPRINKLER HEADS.)

(2).(E) WATER SUPPLY: A 16" PVC CIRCULATING WATER MAIN IS UTILIZED FOR THE WATER SOURCE TO SUPPLY THE 8" FIRE MAIN SERVING THIS BUILDING. (SEE FLOOR PLAN) THE WATER SUPPLY RUNS PAST THE PROPOSED BUILDING/SITE AND CIRCULATES TO & FROM THE CITY MAINS.

(2).(F) WATER SUPPLY
FLOW TEST: A FLOW TEST ON THE LOCAL WATER MAIN HAS BEEN REQUESTED AND THE RESULTS WILL BE DISTRIBUTED TO CONTRACTOR, WHEN AVAILABLE. NOTE THAT THE WATER MAIN SERVING THE SITE IN NOT INSTALLED YET.

(2).(G) VALVING/ALARMS: RISER / FLOOR VALVES CONTAINS FLOW & TAMPER SWITCHES, AS SHOWN ON THE RISER DIAGRAM.

(2).(H) M.I.C.:
DISCUSSIONS WITH CIVIL ENGINEERS FOR THE SITE INDICATES NO KNOWN UNUSUAL ISSUES OR CONCERNS.

(2).(I) SYSTEM PROTECTION: FIRE MAIN AS SHOWN ON FP101 IS PROTECTED WITH A MUNICIPAL APPROVED DOUBLE DETECTOR CHECK VALVE ASSEMBLY.

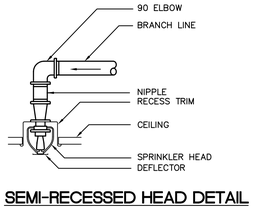
(2).(J) QUALITY SPECIFICATIONS: SYSTEM COMPONENTS SHALL BE RATED MIN. 175–PSI, AND VALVES SHALL BE UL–LISTED. SEE REQUIREMENTS IN NOTES BELOW FOR MATERIAL SPECIFICATIONS.

(2).(K) FIRE PUMP: BASED ON ESTIMATED SITE PRESSURE AND SYSTEM DESIGN, A FIRE PUMP IS NOT YET ANTICIPATED.

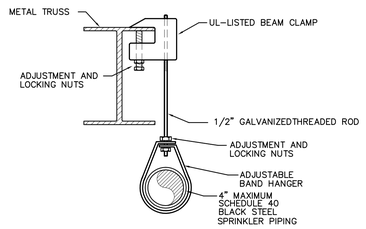
(2).(L) FIREWATER STORAGE TANK: BASED ON EXISTING MUNICIPAL SITE AVAILABLE UTILITES, AND PROPOSED MODIFICATIONS, A STORAGE TANK IS NOT ANTICIPATED.

(2).(M) OWNER'S CERTIFICATE: THIS BUILDING AND SPACE IS NOT A PRIMARY STORAGE OCCUPANCY

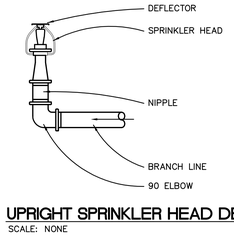
NOTE: ANY "MATERIAL" DEVIATIONS FROM THESE OR ANY REQUIREMENTS ON THIS PLAN REQUIRES THE APPROVAL OF THE ENGINEER OF RECORD PRIOR TO IMPLEMENTATION OF SAID DEVIATION.



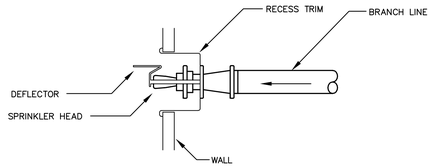
SEMI–RECESSED HEAD DETAIL
SCALE: NTS



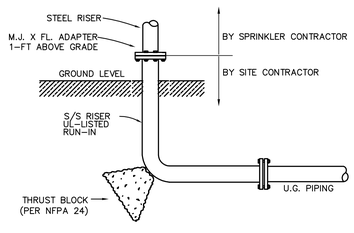
PIPE HANGER DETAIL
SCALE: NONE



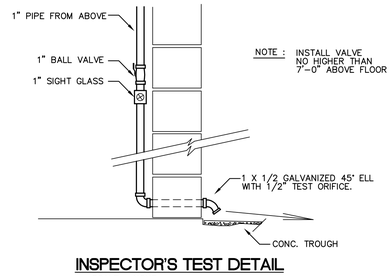
UPRIGHT SPRINKLER HEAD DETAIL
SCALE: NONE



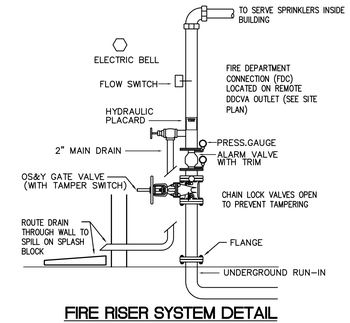
RECESSED SIDEWALL HEAD DETAIL
SCALE: NONE



RUN–IN TO RISER AT BUILDING ENTRANCE
NO SCALE



INSPECTOR'S TEST DETAIL
SCALE: NONE



FIRE RISER SYSTEM DETAIL
SCALE: NONE

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BULLETIN LOG

minto

WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY
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REVISION LOG

STATE REGISTRATIONS
FL 56189

MATTHEW D. LEWIS LICENSE No 56189 STATE OF FLORIDA PROFESSIONAL ENGINEER

Matthew D. Lewis, P.E. License No. 56189

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

FIRE PROTECTION SPECS AND DETAILS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: TJ CHECKED BY: ML
SCALE: AS SHOWN

FP2.01
SHEET NUMBER