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EQUIPMENT NOTES

- THE REVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMESIS.
- COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW AND EXISTING FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL CONDUCT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS.
- 4. ALTER PIPING AS REQUIRED TO SUIT NEW AND EXISTING CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
- WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
- 6. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
- INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT
- WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE

CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.

- 9. PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
- 10. SPRINKLER PLAN SHOWS NEW, EXISTING TO REMAIN AND SPRINKLER HEADS TO BE REMOVED ONLY. ADD SPRINKLER HEADS AS SHOWN ON PLAN AND REUSE EXISTING BRANCH PIPING. MODIFY, EXTEND, AND SHORTEN PIPING AS REQUIRED.
- 11. EXISTING FLOW, TAMPER AND ALARM DEVICES MUST BE TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. ALL REQUIRED EXTENDER PANELS, CODE TRANSMITTERS, ETC. AS MAY BE REQUIRED TO INTEGRATE THE

SYSTEM EXPANSION SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR.

- 12. EXISTING DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS, AND APPARATUS SHALL BE MAINTAINED.
- 13. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
- 14. ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2013) SECTION 11.3.
- 15. THE CONTRACTOR SHALL MAKE A PROVISION FOR (10) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.

- TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGNAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
- MODEL OSYSU-2 FOR OS&Y VALVES.
- MODEL PCVS-2 FOR BUTTERFLY VALVES.
- MODEL RBVS FOR BALL VALVES.
- 2. SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-53. SCHEDULE 10 PIPING IS NOT PERMITTED FOR PIPING LESS THAN 2".
- . <u>WATERFLOW ALARM SWITCH</u>: SHALL BE BASED ON POTTER ELECTRIC SIGNAL CO. VSR SERIES. PROVIDE WATERFLOW ALARM SWITCHES WHERE INDICATED ON THE DRAWINGS.
- 4. FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON CROKER 6030 OR EQUAL AT BUILDING FACADE. SIAMESE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO AHJ STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE.
- 2. SPRINKLERS: REFER TO DRAWING SP-701 FOR SPRINKLER HEAD SCHEDULE.

DESIGN CRITERIA

HAZARD CLASSIFICATION ⁽¹⁾	DENSITY ⁽²⁾	PROTECTION AREA PER SPRINKLER ⁽³⁾
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
RDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
NOTES.		

1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2013 RECOMMENDATIONS UNLESS OTHERWISE NOTED. 2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.

3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI. 4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 - 2013. 5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2013). 6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE

RISER OR SPRINKLER CONTROL VALVE (F.C.A). FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

WATER SUPPLY DATA				
DATE:				
TIME:				
PERFORMED BY:				
STATIC PRESSURE AT RESIDUAL FIRE HYDRANT:				
RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT:				
MEASURED FLOW AT FLOW FIRE HYDRANT:				
NOTES:				

PIPE SIZING SCHEDULE					
CLZE	LIGHT HAZARD	ORDINARY HAZARD			
SIZE	QTY SPRINKLERS	QTY SPRINKLERS			
1"	2	2			
11/4"	3	3			
1½"	5	5			
2"	10	10			
2½"	30	20			
3"	60	40			
3½"	100	65			
4"	SEE NOTE 3	100			
22.5.2.2.1	ORDANCE WITH NFPA 13 AND TABLE 22.5.3.4. PING BASED ON SCHEDU				
3. AREAS	3. AREAS REQUIRING MORE SPRINKLERS THAN SPECIFIED				

FOR 3½" SHALL BE SUPPLIED BY MAINS OR RISERS SIZED

FOR ORDINARY HAZARD OCCUPANCIES.



Charlottesville, VA 22902 Washington, DC 20036

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New City Library

New City Library Addition & Renovation

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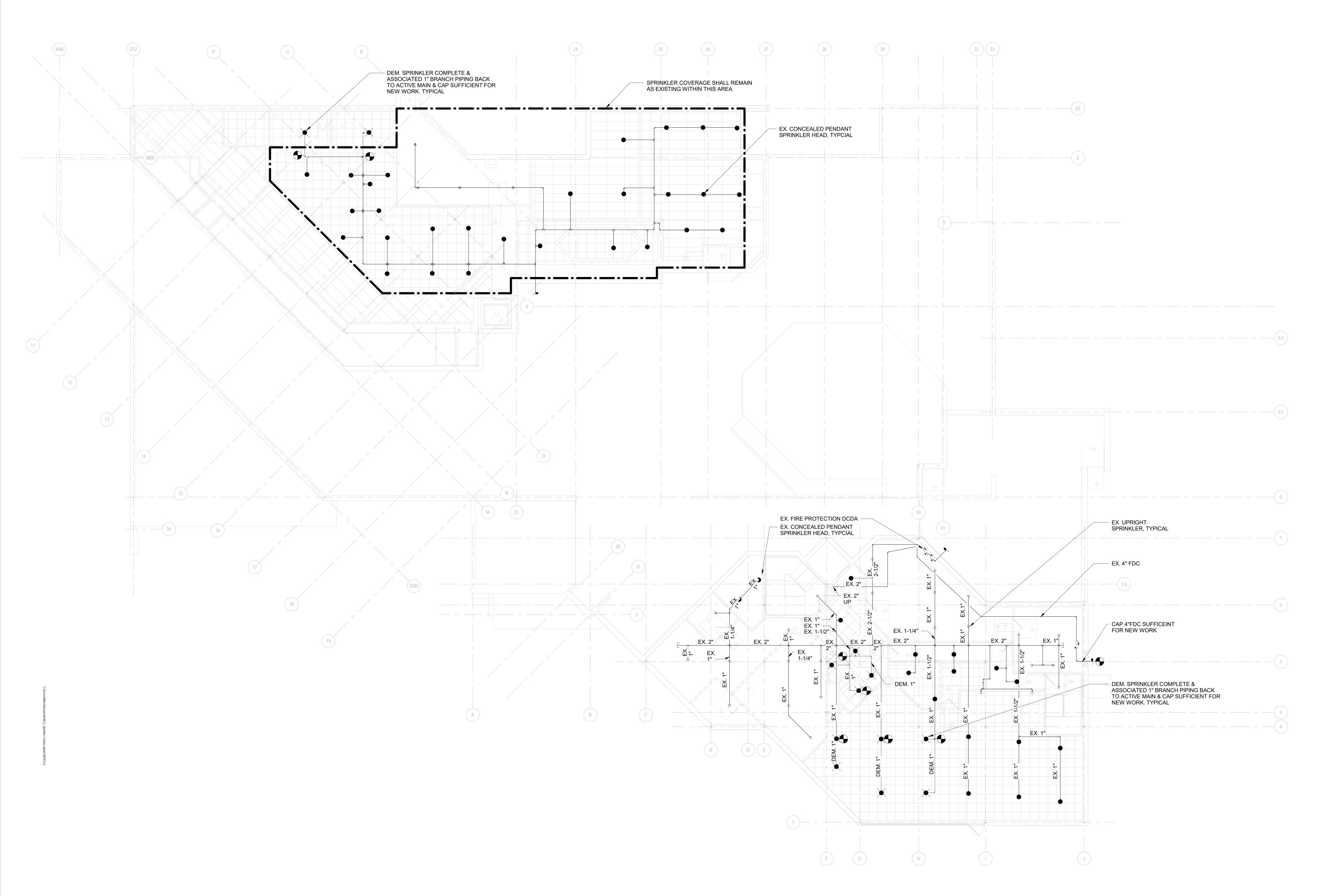
ISSUES AND REVISIONS

DESIGN DEVELOPMENT

07.09.2021

SPRNIKLER SYMBOLS, ABBREVIATIONS AND NOTES

DESIGN DEVELOPMENT







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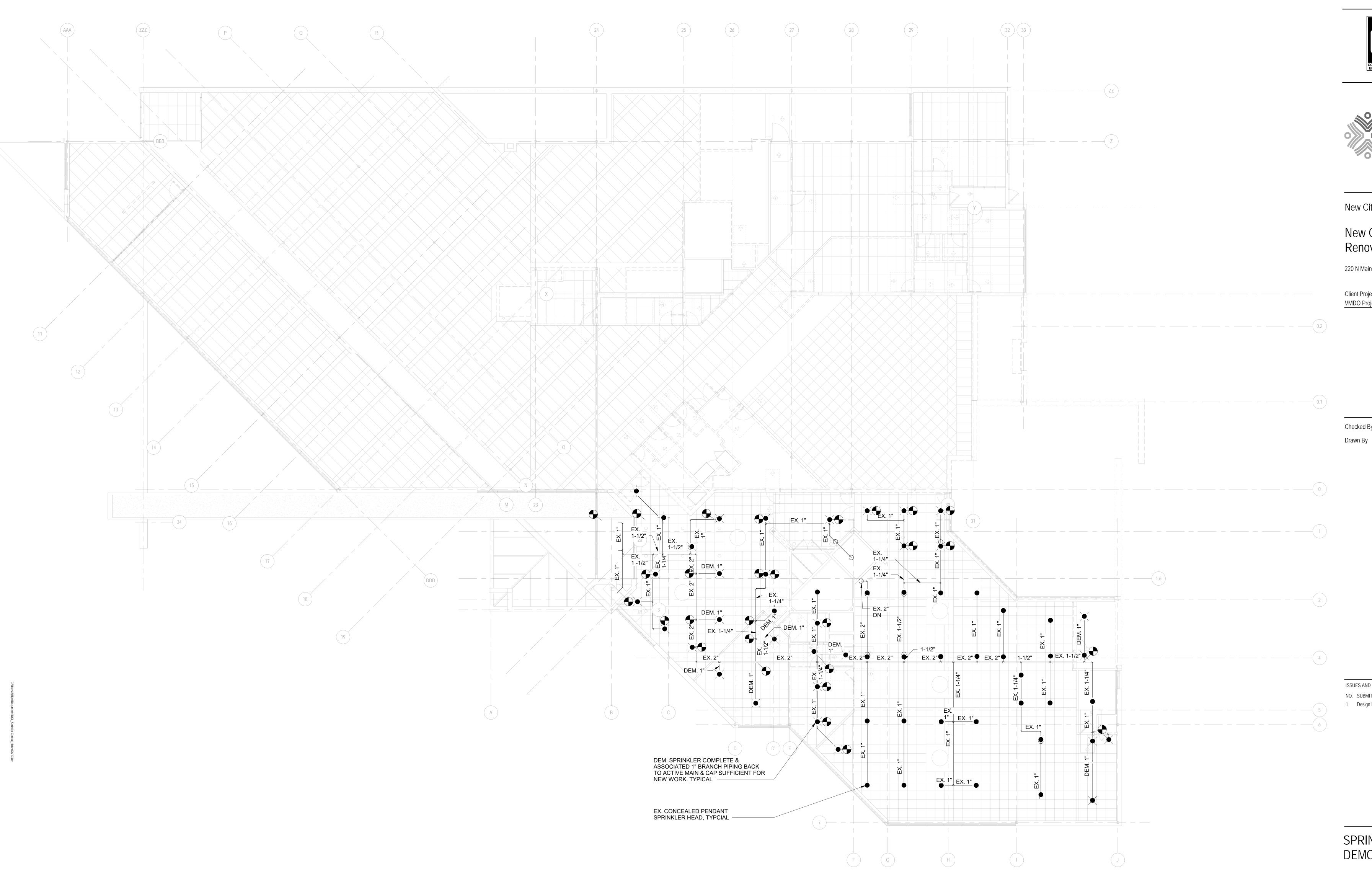
NO. SUBMITTAL1 Design Development

DATE 07.09.2021

SPRINKLER LOWER LEVEL DEMOLITION PLAN

SP-101

DESIGN DEVELOPMENT
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ISSUES AND REVISIONS NO. SUBMITTAL 1 Design Development

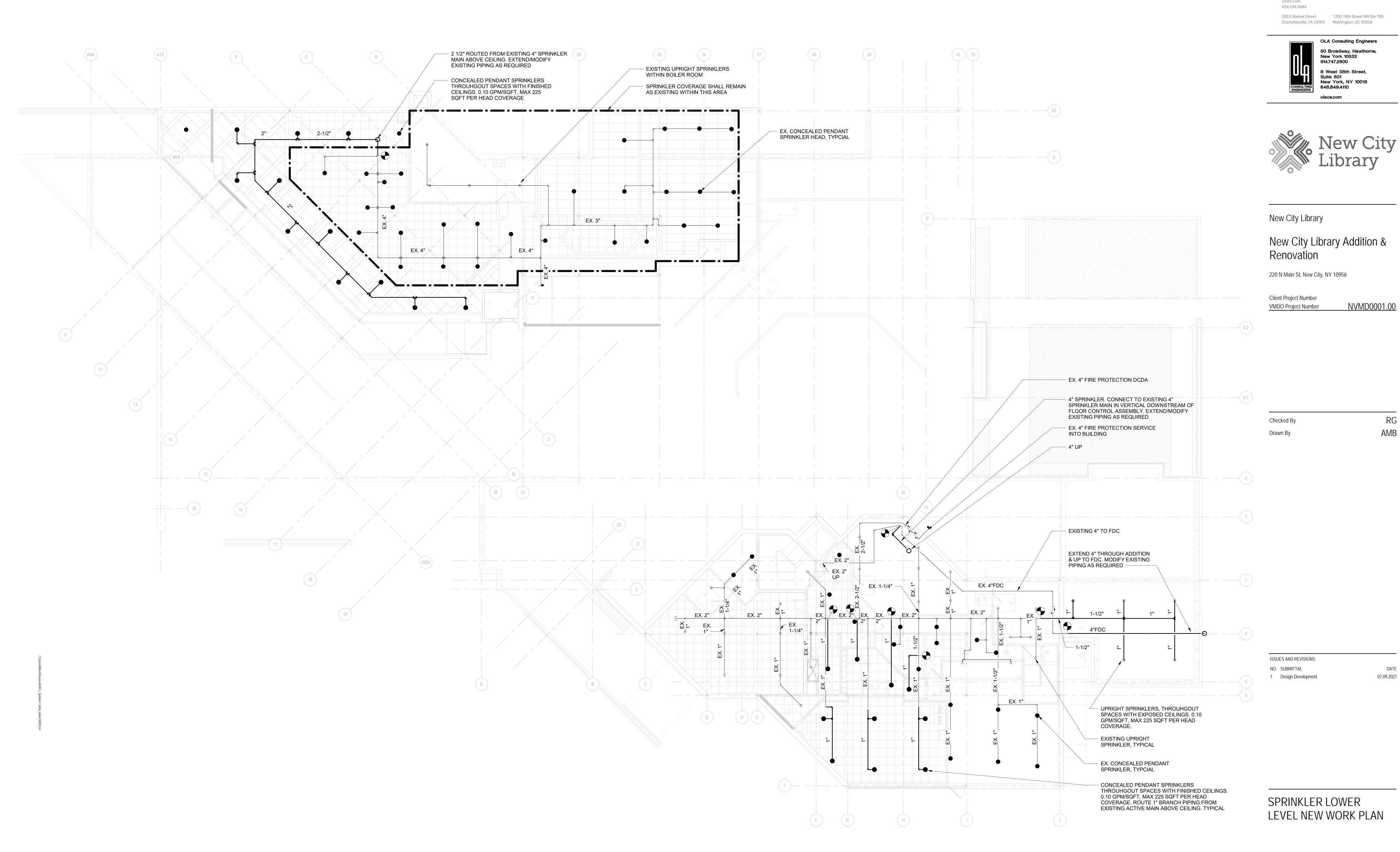
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SPRINKLER MAIN LEVEL DEMOLITION PLAN

SP-102

DESIGN DEVELOPMENT





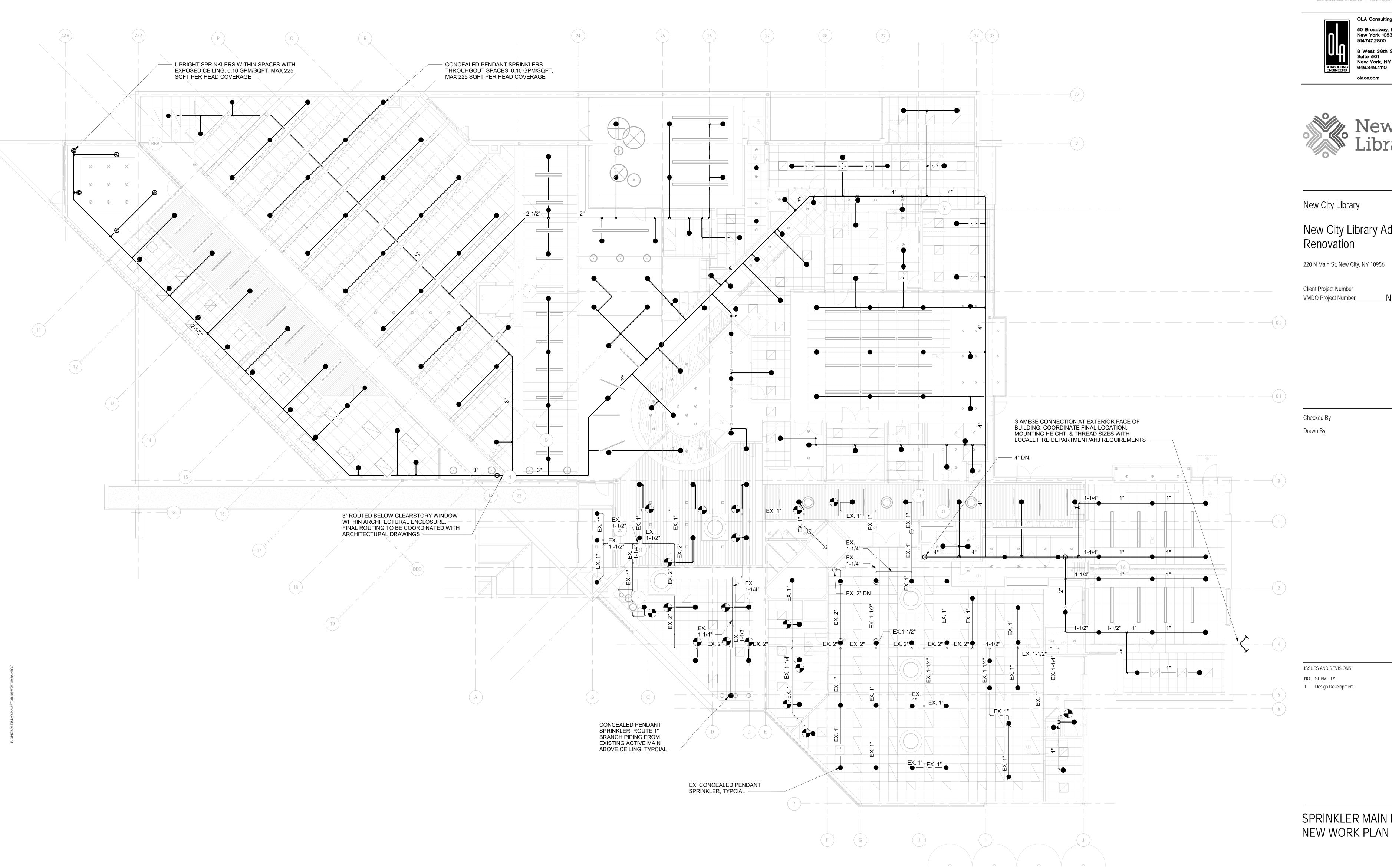
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DATE

TYPE TO MATCH THE THE EXISTING HEAD RESPONSE TYPE. NEW SPRINKLERS WITHIN INDIVIDUAL

ROOMS SHALL BE QUICK RESPONSE TYPE.



SPRINKLER MAIN LEVEL NEW WORK PLAN

NOTES:

1. PROVIDE FIRE WATCH DURING SPRINKLER SYSTEM SHUTDOWNS. SPRINKLER SYSTEM SHALL BE REFILLED AND ACTIVATED AT THE END OF EACH WORK DAY, COORDINATE WITH BUILDING

2. SPRINKLER CONTRACTOR SHALL CONFIRM EXISTING SPRINKLERS TO BE STANDARD RESPONSE TYPE. ALL NEW SPRINKLERS WITHIN THE OPEN FLOOR AREAS SHALL BE STANDARD RESPONSE

TYPE TO MATCH THE EXISTING HEAD RESPONSE TYPE. NEW SPRINKLERS WITHIN INDIVIDUAL ROOMS SHALL BE QUICK RESPONSE TYPE.

SPRINKLE

SCALE: 1/8" = 1'-0"

MANAGEMENT.

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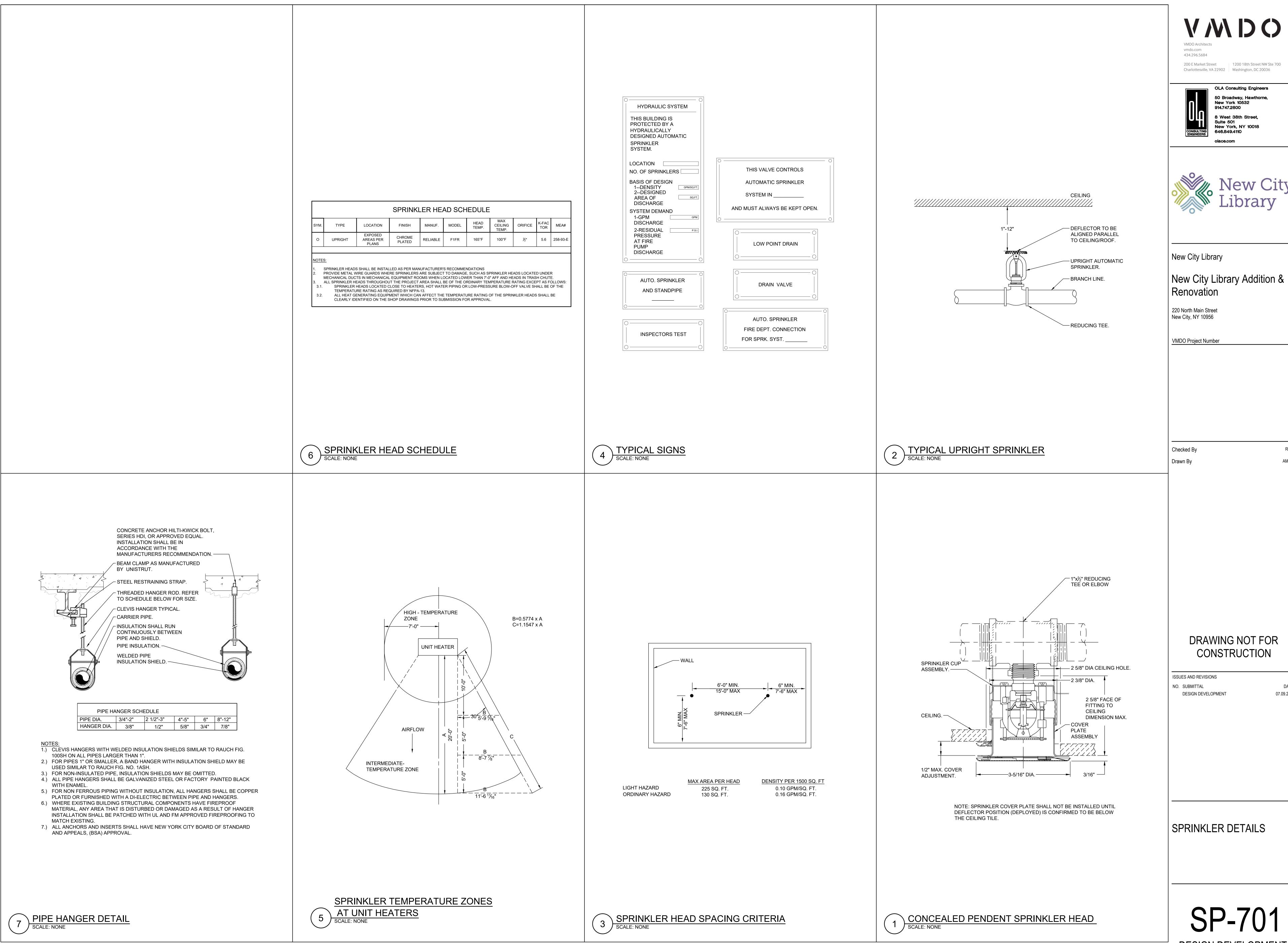
DATE 07.09.2021

ISSUES AND REVISIONS

NO. SUBMITTAL 1 Design Development

SPRINKLER MAIN LEVEL

DESIGN DEVELOPMENT



SP-701

DATE

07.09.2021

DESIGN DEVELOPMENT
07.09.2021