THE TOWN OF GLASTONBURY, CONNECTICUT

Facilities & Maintenance Building Emergency Service Modifications – Glastonbury

State of CT. Project # 53-191, Contract 4
Town Project # GL-2019-30
2145 MAIN STREET, GLASTONBURY, CT.

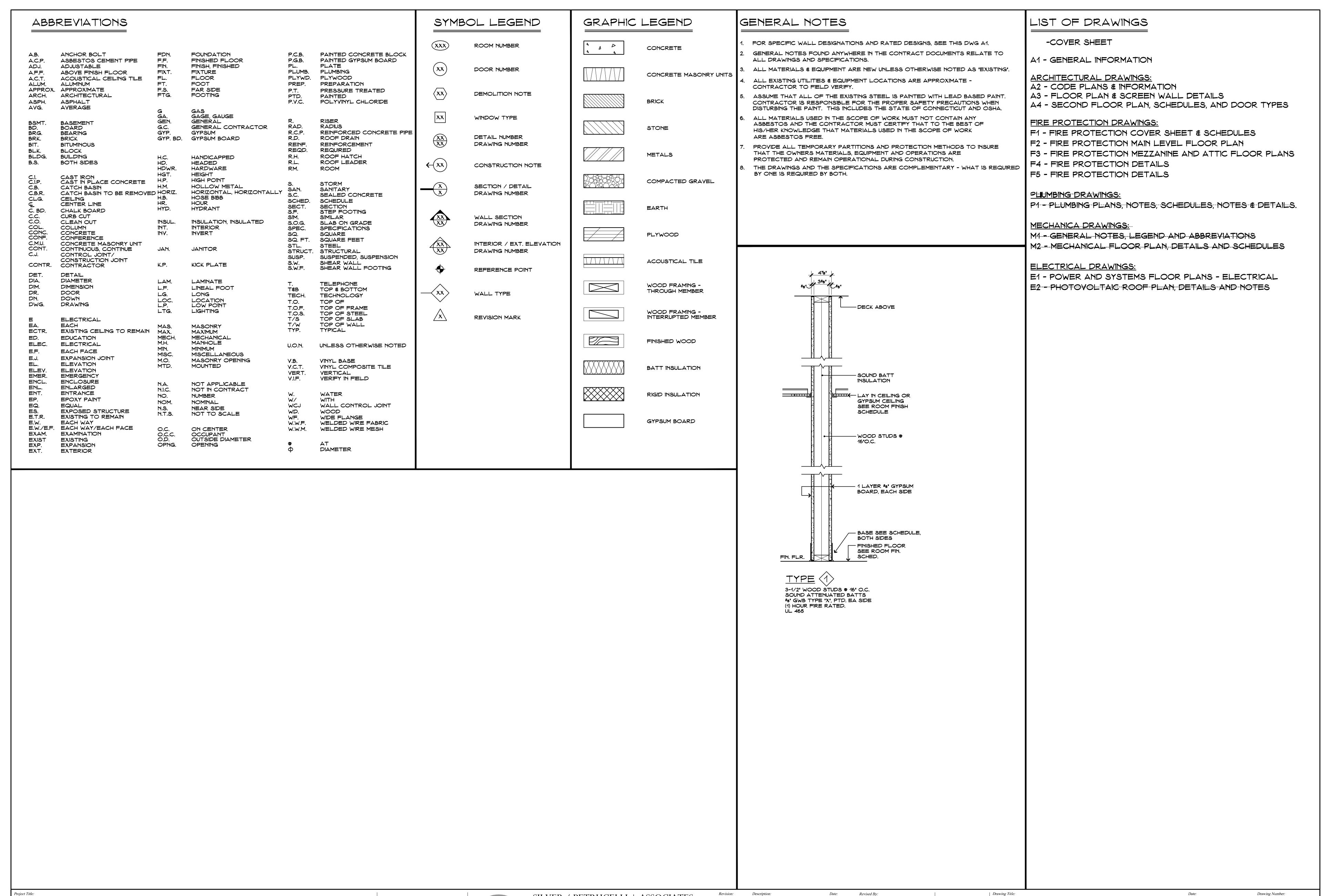


SILVER / PETRUCELLI + ASSOCIATES

Architects/Engineers/Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 *silverpetrucelli.com*

100% Construction Documents April 13th, 2018



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GENERAL INFORMATION

Drawing Number:

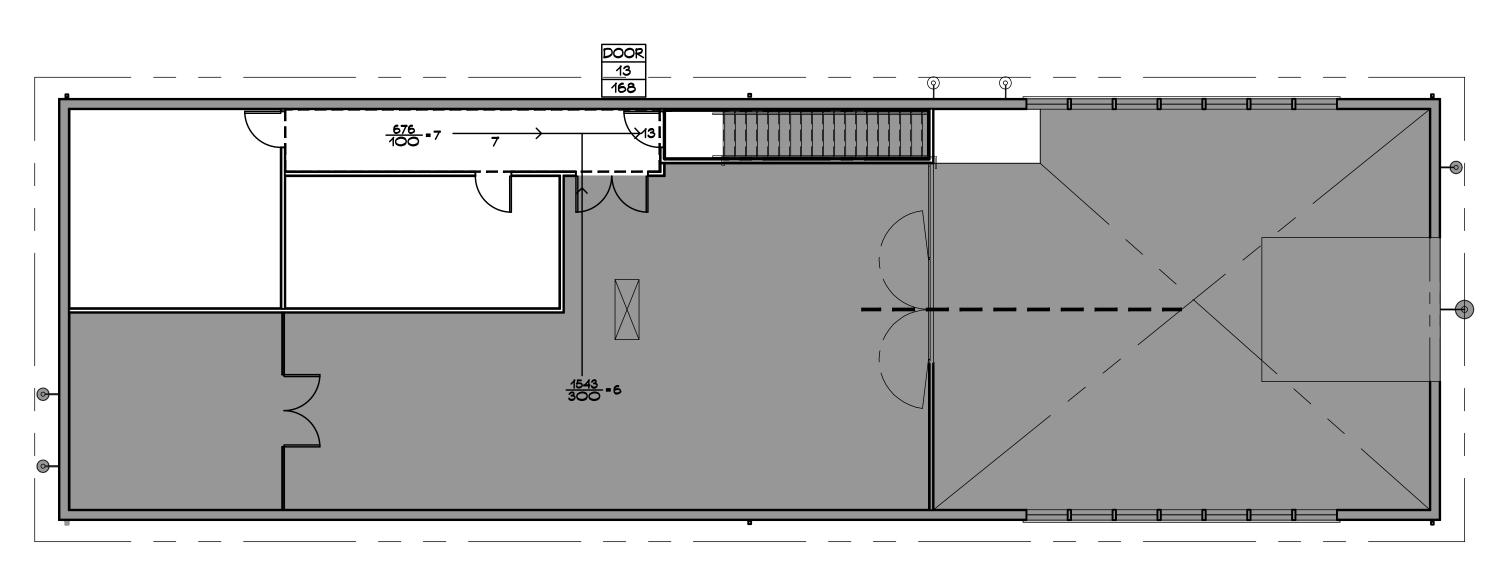
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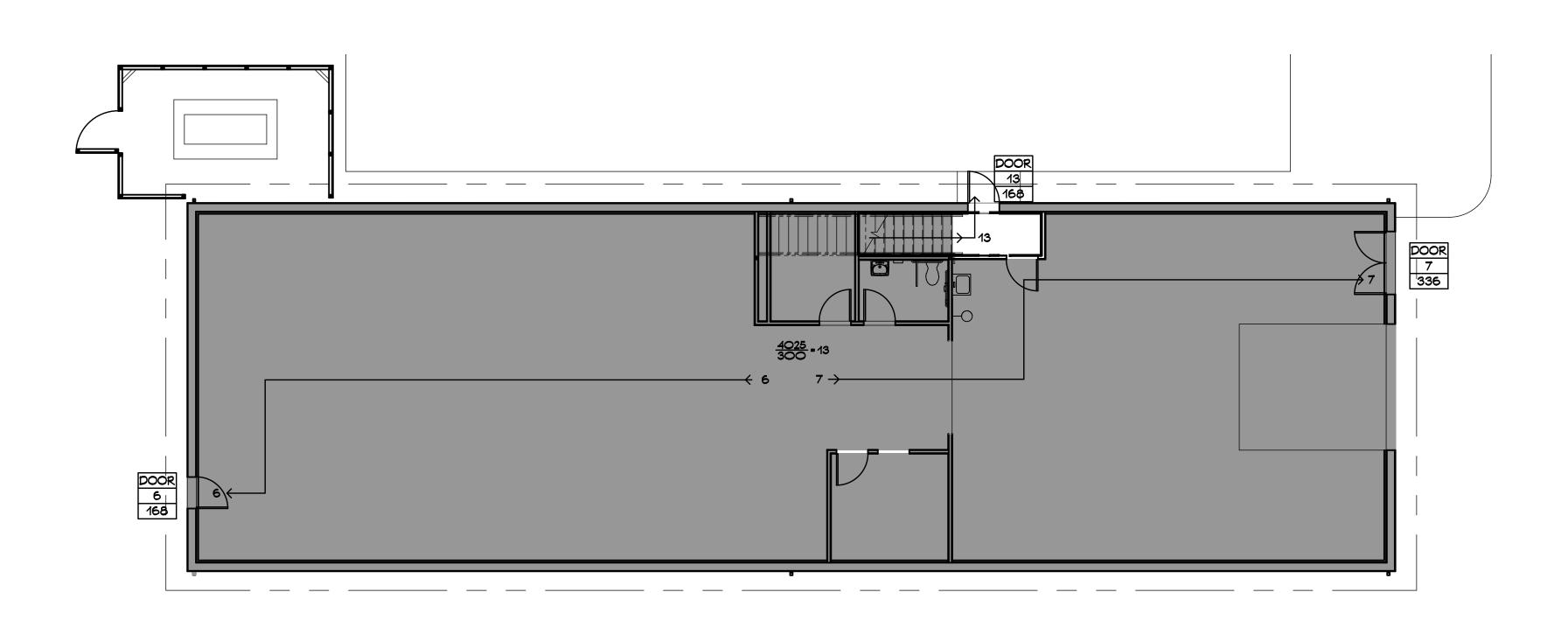
AS NOTED

Drawn By:

Project Number: 17.007







a) Building Area (first floor) 0 New construction Total floor ____ 5. AREA MODIFICATIONS TO TABLE 503 Total Frontage (F) 300 ft. Perimeter (P) 300 ft. (building perimeter which fronts on a public perimeter of the entire building) way or open space having 20 feet open min.) Width of open space (W) = 30 If=100[F/P-0.25]W/30 100[300 /300 -0.25]30 /30=<u>75</u> % of Allowable Tabular Area, At (table 503) 100 % % of Increase for frontage, If (506.2)__ 75 % % of Increase for automatic sprinklers, Is (506.3)_ Total percentage factor 75 % Conversion factor (Total percentage factor + 100) 6. ALLOWABLE AREAS - ASSEMBLY USES, USE GROUP A-3 (FIRE AREA #1) (Allowable Area 506.4) a) ALLOWABLE AREA per floor (Aa) **23,375** sq. ft. b) ACTUAL TOTAL FLOOR AREA (Proposed) 4,025 sq. ft. c) ALLOWABLE FLOOR AREA (all stories) 23,375
Allowable area per floor (Aa)

x
2
number of stories (maximum 3) 7. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS TABLE 302.1.1 — requires a 2 hour separation between A-3 & B 0 1) Structural frame 0 2) Bearing Walls Exterior_ 0 0 3) Non-Bearing Walls/Partitions Exterior 0 4) Non-Bearing Walls/Partitions Interior 0 5) Floor Construction Including Beams 0 6) Roof Construction Including Beams 8. OCCUPANCY LOAD 26 Design Total for Building 672 Total Exit Capacity for Building _____ 9. ACCESSIBLE BUILDING ∫Non Designated 10. SPRINKLER PROTECTION 11. CODES TO WHICH THIS PROJECT WAS DESIGNED 2016 State Building Code w/Supplement_ 2016 State Fire Code w/Supplement ____ MOST CURRENT MOST CURRENT MOST CURRENT 12. THRESHOLD BUILDING CONDITIONS SYMBOL LEGEND FOR CODE INFORMATION - ACCESSIBLE AREA OR EXIT - ROOM OCCUPANCY LOAD ACTUAL EGRESS
OCC. OF DOOR
168
MAX. ALLOWABLE
EGRESS OCC. OF DOOR - EXIT CAPACITY - 1 HOUR FIRE RATED WALL CEILING/WALLS RESIST THE PASSAGE OF SMOKE - CEILING/WALLS RESIST THE PASSAGE OF SMOKE _____ - MAXIMUM TRAVEL DISTANCE - DIRECTION OF TRAVEL Drawing Number:

BUILDING

(Incidental) ___

CODE INFORMATION

DATE OF ORIGINAL CONSTRUCTION

2. CONSTRUCTION TYPE (Chapter 6)

Actual Type Provided (existing) _

Minimum Type Required __

3. BUILDING HEIGHT (Chapter 5)

Allowable Height (story/feet)

Actual Height (story/feet)_ (Stories Above Grade).

4. BUILDING AREA (Chapter 5)

1. USE GROUP CLASSIFICATION (Chapter 3)

2016

F1 / B

VB

2 ST / 40'

34'-0"

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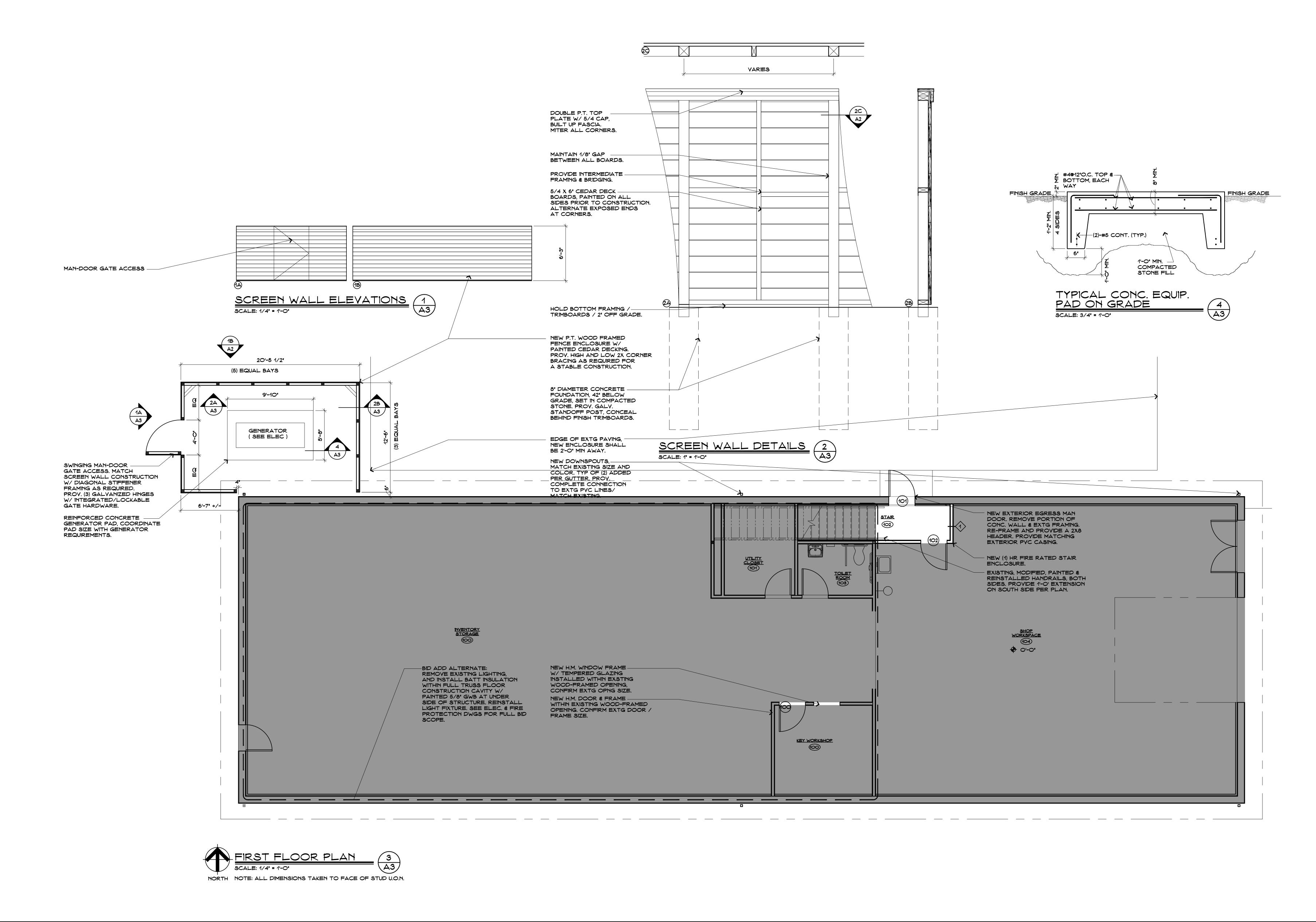
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Revised By:

Description:

Project Number: 17.007



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FIRST FLOOR PLAN & SCREEN WALL DETAILS

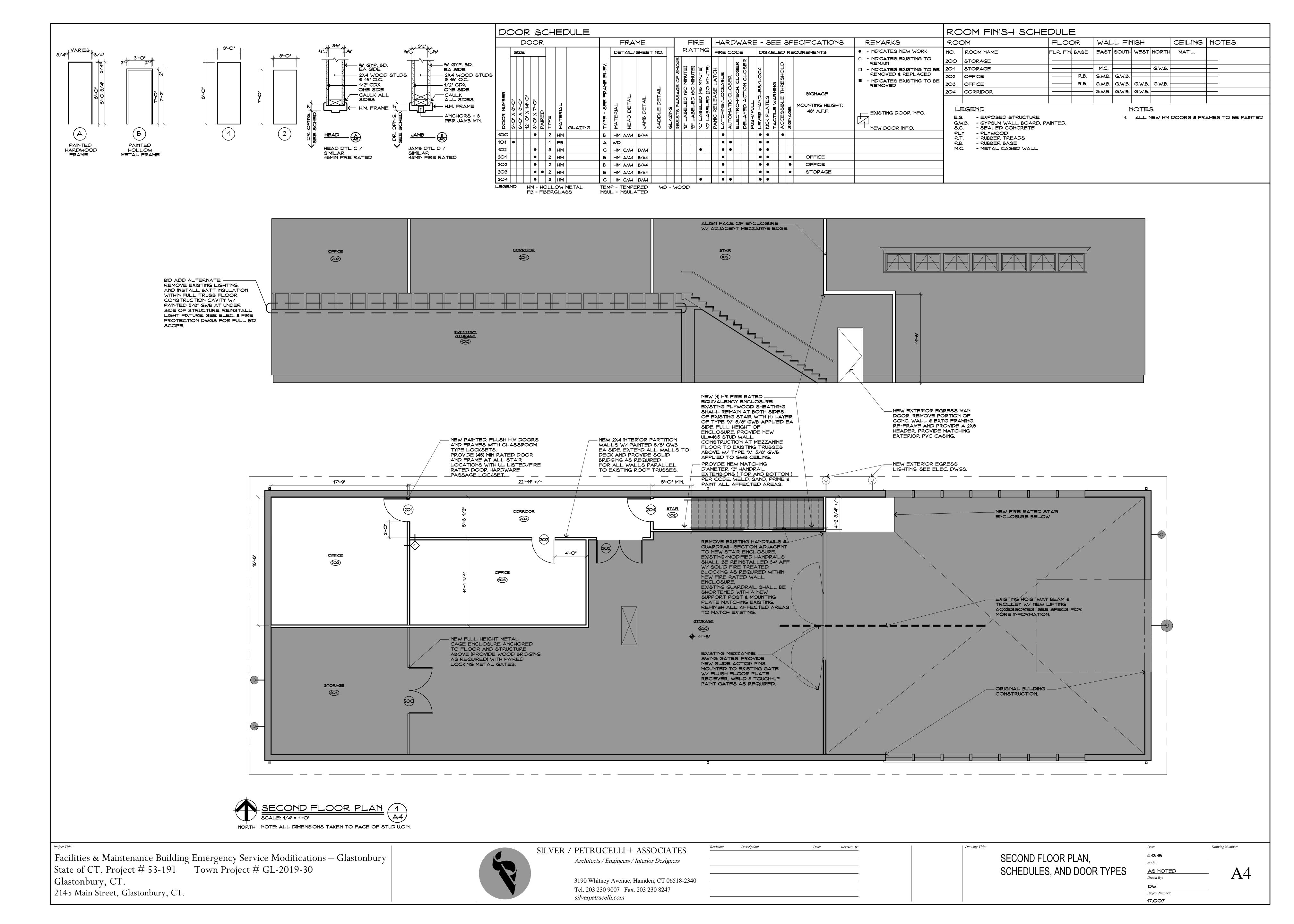
Date: Drawing Number:

4.13.18
Scale:

AS NOTED
Drawn By:

DW
Project Number:

17.007



PIPE AND FITTING SCHEDULE PIPE FITTING ESCRIPTION REMARKS TYPE SCHEDULE RATING WET SPRINKLER PIPING STL-BLK STD ALL PIPING TO BE PAINTED PER ARCHITECT SMALLER 2-1/2" AND 10 VET SPRINKLER PIPING STL-BLK GRVSTD _ARGER STD DRY SPRINKLER PIPING STL-BLK 40 SMALLER RY SPRINKLER PIPING STD 40 STL-BLK ARGER PRAIN PIPING MIT/GRV ALL FITTINGS MUST BE GALVANIZED GALV. STD FIRE DEPARTMENT CONNECTION PIPING GALV. STD ALL FITTINGS MUST BE GALVANIZED MIT/GRV

ARCHITECT.

ALL EXPOSED PIPING AND FITTINGS WITHIN FINISHED AREAS SHALL BE CUSTOM PAINTED IN ACCORDANCE WITH NFPA, OWNERS PAINTING REQUIREMENTS AND COORDINATED WITH

ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL LISTED FOR THIS APPLICATION

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
Cl	CAST IRON	GRV	GROOVED JOINT SYSTEM FITTINGS/COUPLINGS
CLDI	CEMENT LINED DUCTILE IRON	GALV.	GALVANIZED STEEL
DI	DUCTILE IRON	MIT	MALLEABLE IRON THREADED
DIMU	DUCTILE IRON MECHANICAL JOINT	STD	STANDARD
FL	FLANGED	STL-BLK	BLACK STEEL

			VALVI	E SCHED	DULE				
DESCRIPTION					TYPE				
		SIZE	OSEY	BUTTERFLY	CHECK	BALL	CLASS	REMARKS	
WET SPRINKLER PI	PING	2" AND SMALLER	OSEYT	BEVT	CVT	BVT	175PSI		
WET SPRINKLER PIR		2-1/2" AND LARGER	05\$YG	BFVG	CVG	BVG	175PSI		
DRY SPRINKLER PIF	RINKLER PIPING 2" AND SMALLER		OS&YT	BFVT	CVT	BVT	175PSI		
DRY SPRINKLER PIF	ING 2-1/2" AND LARGER		OS£YG	BPVG	CVG	BVG	175PSI		
DRAIN PIPING		ALL				BVT	175PSI		
FIRE DEPARTMENT CONNECTION PIPING ALL				CVG		175PSI			
ABBREVIATION	DESCRIPTION	DESCRIPTION				DESCRIPTION	•		
BVF	BALL VALVE FLANG	ED - FULL PORT, BRONZE		CVF	CVF CHECK VALVE F		VE FLANGED		
BVG	BALL VALVE GROOV	BALL VALVE GROOVED - FULL PORT, BRONZE				CVG CHECK VALVE GR		- FROOVED	
BVT	BALL VALVE THREA	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE				CVT CHECK VALVE THE		THREADED - BRONZE	
BFVF	BUTTERFLY VALVE F	BUTTERFLY VALVE FLANGED				OSŁYF OSŁY RAISING ST		SING STEM VALVE FLANGED	
BFVG	BUTTERFLY VALVE (BUTTERFLY VALVE GROOVED				OSEY RAISING STEM VALV		LVE GROOVED	
BFVT	BUTTERFLY VALVE 1	BUTTERFLY VALVE THREADED C				OSEY RAISING STEM VALVE THREADED			

	BACKFLOW PREVENTER SCHEDULE							
			BODY MATERIAL		MAX. WORKING PRESSURE	MANUFACTURER	REMARKS	
MARK SIZE	LOCATION	SERVICE				MODEL		
0504					175PSI	WATTS		
BFP-1 4"	WATER SERVICE ROOM	FIRE PROTECTION WATER STAINLESS ST		STAINLESS STEEL 33°F-140°F		MODEL 957ZRPDAOSY		

SPRINKLER HEAD SCHEDULE										
TYPE	STYLE RESPON		COVERAGE	COLOR	DISCHARGE	OBIEICE	TEMP	MANUFACTURE		REMARKS
TIPE	STILE	RESPONSE	COVERAGE	COLOR	COEFFICENT (K)	ORIFICE TEMP.	TELIP.	MODEL	SIN	REITARNO
PENDENT	CONCEALED	QUICK	ICK STANDARD WHITE		5.6K	1/2"	" 155°F -	VICTAULIC		
PLINDLINI	CONCEALED QUICK 912	STANDARD WI	WHILE	V38				V3802		
DRY PENDENT	PENDENT CONCEALED QUICK S		STANDARD W	\\/.UTC	E GV	1/2"	" 155°F	VICTAULIC		
DRIPENDENI	CONCEALED	QUICK	STANDARD	WHITE 5.6K	1951	V33		V3302		
UPRIGHT	HT EXPOSED QUICK STANDARD E	BBACC FCK	5.64	1/2"	/0" 1-70°	VICTAULIC 175°F				
UPRIGHT	EAPOSED	QUICK	JIANDARD		3.6K 1		1/5 F	V27	V2704	

FINIAL COLORS TO BE SELECTED BY ARCHITECT.

I. IN AREAS WITH FINISHED CEILINGS CONCEALED, PENDENT SPRINKLER HEADS AND CONCEALED PIPING SHALL BE UTILIZED, UNLESS OTHERWISE INDICATED ON PLANS

3. IN AREAS WITHOUT CEILINGS, EXPOSED UPRIGHT SPRINKLER HEADS AND EXPOSED PIPING SHALL BE UTILIZED. UL LISTED HEAD GUARDS SHALL BE PROVIDED IN AREAS SUBJECT TO DAMAGE (I.E. MECHANICAL ROOMS, GYMS, ETC...)

-. FLEXIBLE SPRINKLER HEADS ASSEMBLIES (IF USED) SHALL BE 6' IN LENGTH, UL LISTED AND HAVE A STAINLESS STEEL BRAID SIMILAR TO VICTAULIC "VICFLEX" AQB BRAIDED SERIES. FLEXIBLE SPRINKLER ASSEMBLIES EQUIVALENT LENGTH MUST BE TAKING IN ACCOUNT WHEN PRODUCING HYDRAULIC CALCULATIONS.

. PROVIDE HIGH-TEMPERATURE CLASSIFICATION SPRINKLERS IN HIGH-TEMPERATRUE ZONES, AND PROVIDE INTERMEDIATE-TEMPERATURE CLASSIFICATION SPRINKLER IN-INTERMEDIATE EMPERATURE ZONES ADJACENT TO FINALIZED UNIT HEATER LOCATION (BY MECH DIV.). INSTALL IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION DESIGN CRITERIA

FIRE PROTECTION CONTRACTOR SHALL OBTAIN RECENT AREA FLOW TEST RESULTS (WITHIN ONE YEAR OF START OF CONSTRUCTION) OR SHALL ARRANGE WITH THE WATER UTILITY FOR A NEW WATER FLOW TEST. SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED BASED ON THE FOLLOWING CRITERIA. INCLUDE ANY/ALL FIRE MARSHAL AND OWNER REQUIREMENTS. CONTRACTOR RESPONSIBLE FOR DOCUMENTING SIZE AND LENGTH OF EXISTING FIRE PROTECTION WATER SUPPLY INCLUDING VALVING. ETC. AS NECESSARY IN ORDER TO PERFORM HYDRAULIC CALCULATIONS. THE FIRE PROTECTION WATER SERVICE SHALL BE CONNECTED TO AN EXISTING SPRINKLER FIRE MAIN. THE FIRE PROTECTION CONTRACTOR SHALL CONDUCT A CURRENT FLOW TEST FOR USE IN THE HYDRAULIC CALCULATIONS AND DOCUMENT THE RESULTS.

WHERE DISTRIBUTION PIPING CAN BE RUN ON WARM SIDE OF BUILDING INSULATION, AND SPACE TO BE PROTECTED IS NOT EXPOSED TO FREEZING:

STANDARD DESIGN CRITERIA

OFFICES, HALLWAYS, LOBBYS, ETC. NIMUM DENSITY OF 0.10 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT.

PLUS 100 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS

ORDINARY HAZARD (GROUP II) AREAS: STORAGE ROOMS

MINIMUM DENSITY OF 0.20 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. PLUS 250 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS

WHERE DISTRIBUTION PIPING AND SPACE TO BE PROTECTED ARE EXPOSED TO FREEZING:

PROVIDE DRY PIPE SPRINKLER SYSTEM; ALL PENDENT AND SIDEWALL HEADS SHALL BE DRY TYPE.

FIRE PROTECTION GENERAL NOTES

<u>GENERAL</u>

(CUSTOM COLOR)

UTILIZE CONCEALED PENDENT SPRINKLERS AND PIPING IN AREAS WITH FINISHED CEILINGS, AND EXPOSED PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT CEILINGS. CONCEALED SPRINKLER HEADS LOCATED IN ACOUSTICAL TILES TO UTILIZE FLEX HOSE PIPING 6' IN LENGTH. PROVIDE AND INSTALL SPRINKLERS UNDER AND ABOVE ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.

ACTIVATION OF A FLOW SWITCH SHALL RESULT AS AN "ALARM" INDICATION AT THE FIRE ALARM CONTROL PANEL AND THE FIRE ALARM ANNUNCIATOR PANEL. THE SPRINKLER CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND SHALL VERIFY ALL CONDITIONS IN THE FIELD. THE SPRINKLER

FIRE PROTECTION PLANS ARE INTENDED TO INDICATE TOTAL COVERAGE AND MAY OR MAY NOT INDICATE ALL SPRINKLER HEADS. SPRINKLER HEADS INDICATED ON DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE NOT BE COUNTED FOR BID (IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ENTIRE PIPING LAYOUT, PROPOSED MAINS AND DEVICES INDICATED ONLY). THE CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM WITH COMPLETE SPRINKLER COVERAGE, INDICATED OR NOT. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE. IN ACCORDANCE WITH NFPA. INSURANCE COMPANY REQUIREMENTS AND OWNERS, READY FOR OPERATION, SHALL BE PROVIDED AND INSTALLED. THE CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER COVERAGE AS REQUIRED INCLUDING BUT NOT LIMITED TO: CRAWL SPACES, CONCEALED COMBUSTIBLE SPACES, SHAFTS, AND ALL CLOSETS.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUBCONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING. VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

THE CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS. ANY DISCREPANCIES SHALL BE BROUGHT BACK TO THE ARCHITECT/ ENGINEER. DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT INDICATED. REFER TO ARCHITECT FOR RESOLUTION FOR ANY DIMENSIONS NOT INDICATED.

TESTED AND READY FOR OPERATION. THE DESIGN OF ALL FIRE SUPPRESSION SYSTEMS WILL BE IN ACCORDANCE WITH THE LOCAL AND STATE BUILDING CODE, NFPA 13, FM GLOBAL. USE ONLY UL/FM SPRINKLERS, MATERIALS AND

IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK,

DEVICES, UNLESS NOTED OTHERWISE. CONCEALED SPRINKLERS AND PIPING SHALL BE INSTALLED IN AREAS WITH FINISHED CEILINGS. AREAS WITH EXPOSED CONSTRUCTION SHALL HAVE EXPOSED PIPING AND SPRINKLERS

THE SPRINKLER CONTRACTOR IS REQUIRED TO VISIT THE SITE AT THE TIME OF BID. TO EXAMINE CONDITIONS AND BECOME FAMILIAR WITH THE JOB, NOTING DEGREE OF DIFFICULTY IN GETTING EQUIPMENT (INCLUDING LIFTS AND SCAFFOLDS) IN AND OUT OF THE BUILDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING PRIOR TO SUBMITTING A BID.

NOTIPY PROPER AUTHORITIES (INCLUDING BUT NOT LIMITED TO: THE LOCAL A.H.J., INSURANCE COMPANY, ETC.) OF ANY FIRE PROTECTION "SHUT DOWNS". SCHEDULE ALL WORK TO MINIMIZE THE LENGTH OF TIME THAT THE FIRE PROTECTION SYSTEM(S) WILL BE OUT OF SERVICE. RETURN THE SPRINKLER SYSTEM BACK IN SERVICE AT THE END OF EACH WORKING DAY. IF A FIRE WATCH IS REQUIRED BY THE LOCAL A.H.J. BUILDING MANAGER, ETC. IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. FIRE WATCH SCHEDULING AND PERSONNEL SHALL BE COORDINATED WITH THE LOCAL A.H.J., BUILDING MANAGER AND INSURANCE COMPANY.

ARRANGE PIPING TO FACILITATE FLUSHING. PROVIDE READILY ACCESSIBLE DRAIN AND FLUSHING CONNECTIONS AS REQUIRED BY NFPA 13. PROVIDE AND INSTALL AUXILIARY DRAINS WITH PROVISIONS FOR COMPLETE DRAINAGE. PIPE ALL DRAINS TO AN APPROVED LOCATION.

INSPECTOR'S TEST CONNECTIONS, DRAIN VALVES AND CONTROL VALVES SHALL BE READILY ACCESSIBLE AND INSTALLED NOT OVER +/-7-0" ABOVE THE FINISHED FLOOR. PROVIDE ALL VALVES WITH IDENTIFICATION SIGNS. SUPERVISORY SWITCHES SHALL BE ON ALL CONTROL VALVES. PIPE ALL DRAIN PIPING, INSPECTORS TEST CONNECTIONS, ETC. TO THE EXTERIOR. ENSURE DRAINAGE DOES NOT CAUSE DAMAGE TO BUILDING OR SITE.

INSTALL A PRESSURE GAUGE WITH A BLEEDER MAINTENANCE VALVE AT THE TOP OF ALL RISERS. PROVIDE A HEAD GUARD ON SPRINKLERS IN AREAS SUBJECT TO MECHANICAL

REFER TO ADDITIONAL NOTES ON ARCHITECTURAL DRAWINGS.

DAMAGE (I.E. SPRINKLERS IN: MECHANICAL ROOMS, ETC.)

THE CONTRACTOR SHALL COORDINATE SPRINKLER WORK WITH THE OWNER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK. ALL PHASED SECTIONS OF WORK SHALL COMPLY WITH THE OWNERS SCHEDULE AND BE TESTED, INSPECTED, READY FOR OPERATION IN

ACCORDANCE WITH NFPA, OWNERS INSURANCE COMPANY AND A.H.J. REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE COMPLETE SIGNED AND SEALED (BY LICENSED P.E.) DRAWINGS INDICATING ALL PIPING AND SPRINKLER HEADS. CONTRACTOR SHALL SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS AND APPROVALS.

INSTALL SPRINKLERS BELOW DUCTS, AND/OR COMBINATIONS OF DUCTS/EQUIPMENT IN ACCORDANCE WITH THE OBSTRUCTION REQUIREMENTS OF NFPA 13.

PROVIDE SPRINKLER PROTECTION IN ORDER TO AVOID ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13, INCLUDING: LIGHTING, CEILING FIXTURES, STRUCTURAL MEMBERS, ETC. WITHIN ALL HAZARD OCCUPANCIES.

ALL DRAIN PIPING AND ANY PIPING SUBJECT TO ALTERNATE WETTING AND DRYING WITHOUT NITROGEN SHALL BE GALVANIZED.

ALL SYSTEM COMPONENTS SHALL BE CAPABLE OF WITHSTANDING A MINIMUM WORKING PRESSURE OF 175 PSI.

THE CONTRACTOR SHALL SEAL AROUND ALL NEW PENETRATIONS THROUGHOUT THE BUILDING WITH SEALANT OF FIRE AND/OR SMOKE RETARDANT TYPE EQUAL IN FIRE RATING TO THE STRUCTURE BEING PENETRATED. SEALANT SHALL BE A UL LISTED ASSEMBLY.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM...

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION BY OTHERS. COORDINATE REQUIREMENTS. ALTERATION WORK AND DEMOLITION

EXISTING PIPING AND SPRINKLERS SHOWN DO NOT NECESSARILY REFLECT EXACT FIELD CONDITIONS. FIELD VERIFY EXTENT AND LOCATION OF WORK TO BE REMOVED.

ALL EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.

NO EXISTING PIPE MAY BE CUT OR DAMAGED WHEN ENCOUNTERED ALONG THE ROUTE DESIGNED FOR NEW SERVICE. ANY EXISTING PIPING SEVERED OR DAMAGED SHALL BE REPLACED INCLUDING DAMAGED AREAS. ANY UNUSED OUTLETS SHALL BE PROPERLY CAPPED.

UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVE, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.

REMOVE & REPLACE ANY EXISTING SPRINKLER PIPING WHICH DOES NOT PASS THE REQUIRED HYDROSTATIC PRESSURE TESTS CONDUCT VISUAL INTERNAL INSPECTIONS ON AT LEAST 5% OF ANY EXISTING PIPING TO REMAIN. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.

EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.

ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.

RE-ROUTE OR REMOVE ALL EXISTING PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY

COORDINATION DRAWINGS DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.

AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

-MECHANICAL SHEET METAL -PLUMBING PIPING -MECHANICAL PIPING -SPRINKLER PIPING

-ELECTRICAL WORK

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.

WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL ASK FOR AND OBTAIN A WRITTEN CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMITTING HIS BID. OTHERWISE, THE ITEMS OR ARRANGEMENTS OF SUPERIOR QUALITY, GREATER QUANTITY OR HIGHER COST SHALL PREVAIL AND BE INCLUDED IN THE CONTRACT PRICE.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND NCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD AND/ VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

INCLUDE ALL CHANGES OF ALL DEVIATIONS BETWEEN THE WORK INDICATED AND THE WORK INSTALLED INCLUDING APPROVED CONTRACT MODIFICATIONS AND SUBSTITUTIONS.

INDICATE VALVES AND CONTROL DEVICES LOCATED AND NUMBERED COORDINATED WITH SUBMITTED VALVE CHARTS. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

PROVIDE AND INSTALL ACCESS DOORS FOR EACH VALVE, DRAIN, OR FIRE PROTECTION DEVICE REQUIRING ACCESS. ACCESS DOORS SHALL BE RIGID CONSTRUCTION WITH TWO HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE RATED TO THE SAME OR GREATER RATING OF THE PARTITION IN WHICH THEY ARE INSTALLED. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED.

ACCESS DOOR SIZES SHALL BE: 12" X 12" AT EASILY ACCESSIBLE ITEMS

CALCULATIONS AND EQUIPMENT DATA.

16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED 24" X 24" WHERE FULL BODY ACCESS IS REQUIRED

SPRINKLER PIPING IN A SUBSTANTIAL MANNER FROM BUILDING STRUCTURE, AND INDEPENDENT OF THE CEILING SYSTEM. PROVIDE EARTHQUAKE/SEISMIC BRACING IN ACCORDANCE WITH NFPA 13 AND THE LOCAL CODE. DO NOT USE SPRINKLER PIPING OR HANGERS TO SUPPORT NON-SYSTEM COMPONENTS.

SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS, OWNERS INSURANCE COMPANY, STATE, FEDERAL AND LOCAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT AND TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED.

PROVIDE ADDITIONAL SUPPORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE PERMITTED ONLY WHEN PROVIDED WITH RESTRAINING STRAP. BAR JOIST HANGERS SHOULD BE UTILIZED WHEN HANGING FROM BAR JOIST

ALL HANGERS AND SUPPORTS SHALL BE HOT DIPPED GALVANIZED. ALL THREADED ROD AND HARDWARE SHALL BE HOT DIPPED GALVANIZED. PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS,

FIRE PROTECTION ABBREVIATIONS ABBREVIATION ABOVE FINISHED FLOOR BELOW FINISHED FLOOR CONTINUED CONT HECK VALVE DIAMETER OWN DRAWING EACH FΑ FLOOR FLR. FIRE PROTECTION CONTRACTOR GALLONS PER MINUTE MAX. MAXIMUM MIN TMISCELANNEOUS NATIONAL FIRE PROTECTION ASSOCIATION NOT TO SCALE NTS OUTSIDE SCREW AND YOKE POUNDS PER SQUARE INCH RADIUS SQUARE FEET UNLESS OTHERWISE NOTED VERIFY IN FIELD DIAMETER OTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT PERTAIN TO THIS PROJECT

FIRE PROTECTION DEMOLITION NOTES

NOTIFY PROPER AUTHORITIES (INCLUDING BUT NOT LIMITED TO: THE LOCAL A.H.J., INSURANCE COMPANY, ETC.) OF ANY FIRE PROTECTION "SHUT DOWNS". SCHEDULE ALL WORK TO MINIMIZE THE LENGTH OF TIME THAT THE FIRE PROTECTION SYSTEM(S) WILL BE OUT OF SERVICE. RETURN THE SPRINKLER SYSTEM BACK IN SERVICE AT THE END OF EACH WORKING DAY.

2. THIS JOB IS A RENOVATION OF EXISTING FACILITY.

3. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS, OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO BECOME FULLY FAMILIAR WITH EXISTING CONDITIONS.

6. THE SPRINKLER CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL EXISTING SPRINKLER PIPING, HANGERS, HEADS, ETC. AS INDICATED (VERIFY IN FIELD) CAP ANY UNUSED OUTLETS.

7. THE CONTRACTOR SHALL PROPERLY CAP AND TERMINATE ANY UNUSED DRAIN AND FIRE PROTECTION WATER SUPPLIES (IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS).

SYM	1B <i>O</i> L	DESCRIPTION	
	5	BALL VALVE	
2		CHECK VALVE	
Þ	⊲	GATE VALVE	
В	t	OSYVALVE	
	>	POINT OF NEW CONNECTION	
-	-	POINT OF DISCONNECTION	
	<u>_</u>	PIPE DOWN	
		PIPE UP	
		CAPPED PIPE	
$\times \times \rightarrow$	$\leftarrow \times \times$	PIPE OR EQUIPMENT TO BE DEMOLISHED	
	SPI	RINKLER SYMBOL LEGEND	
EXISTING	NEW	DESCRIPTION	
0	0	UPRIGHT	
		PENDENT	
	®	PENDENT - RECESSED	
		PENDENT - CONCEALED	

FIRE PROTECTON DRAWING INDEX						
SHEET	DESCRIPTION					
F1	FIRE PROTECTION COVER SHEET & SCHEDULES					
F2	FIRE PROTECTION MAIN LEVEL FLOOR PLAN					
F3	FIRE PROTECTION MEZZANINE AND ATTIC FLOOR PLANS					
F4	FIRE PROTECTION DETAILS					
F5	FIRE PROTECTION DETAILS					

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Description: Revised By:

FIRE PROTECTION COVER SHEET & SCHEDULES

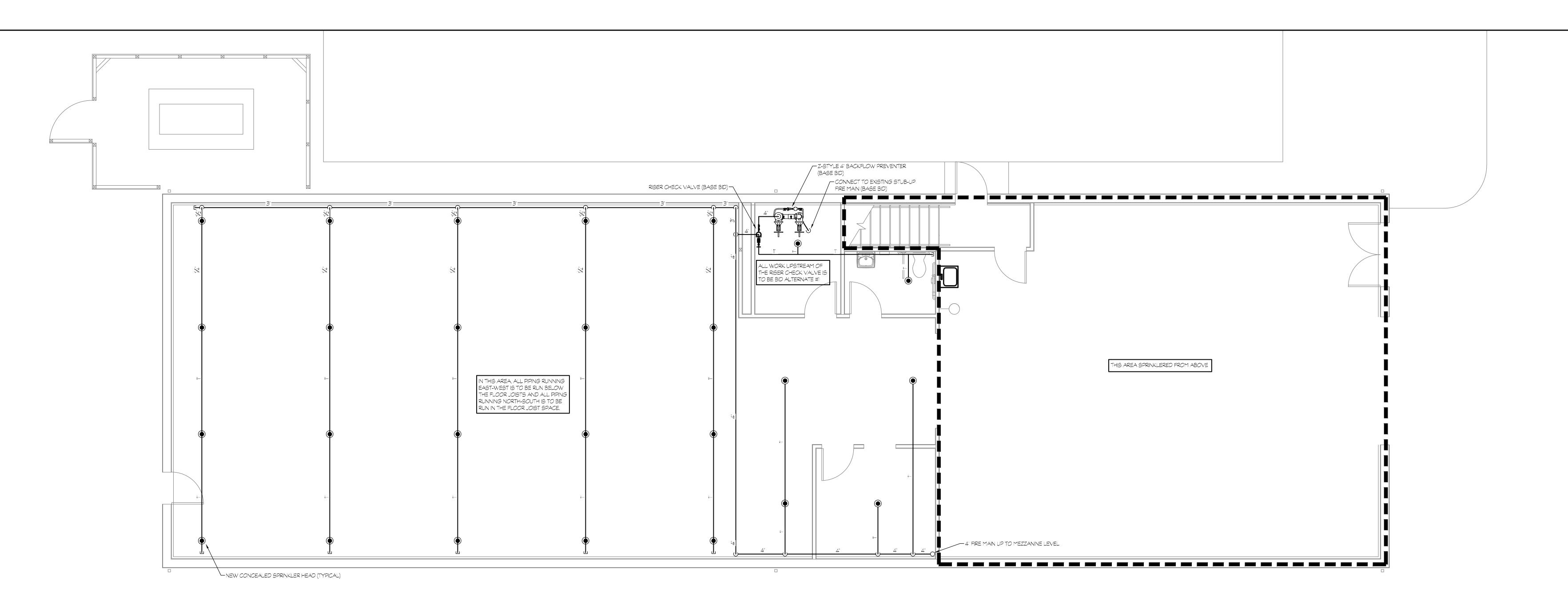
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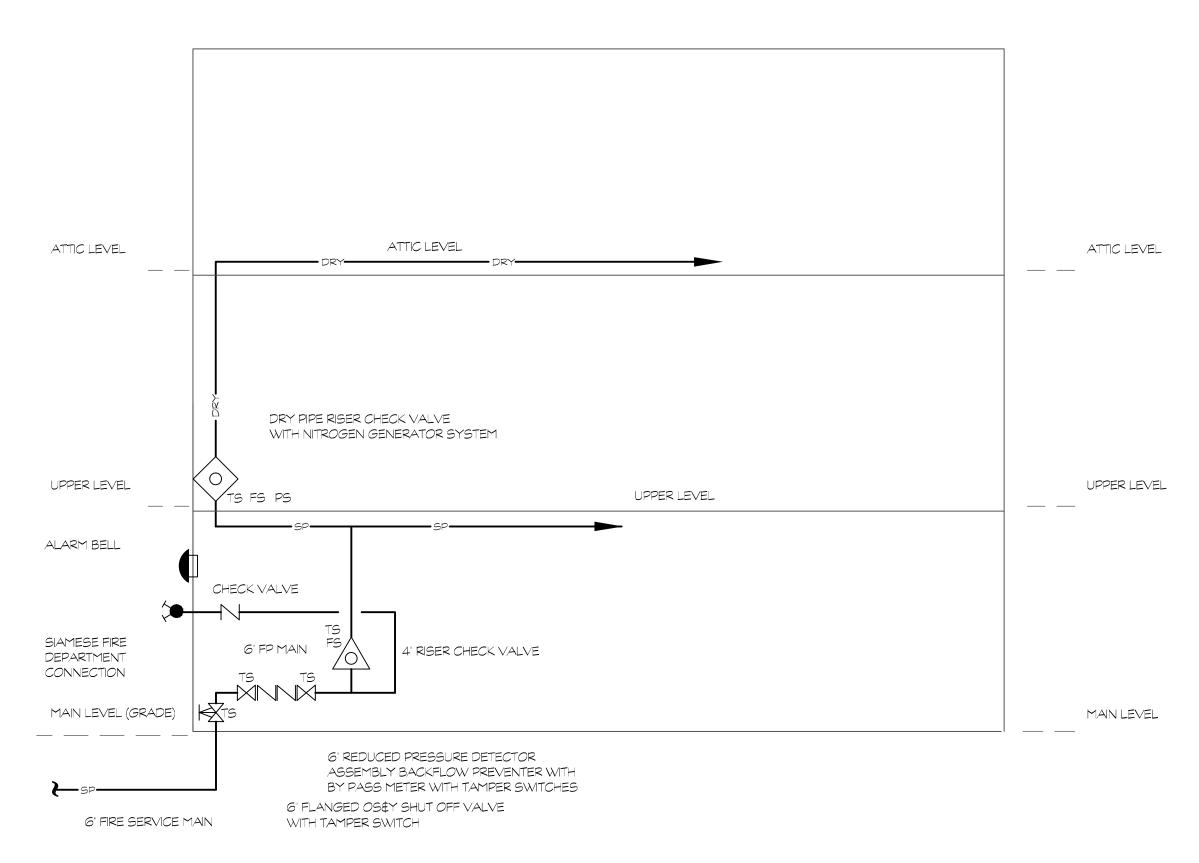
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MAIN PIPING SCHEMATIC RISER DIAGRAM SCALE: 1/4" = 1'-0" 2 F2

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Revision: Date: Revised By:

FIRE PROTECTION MAIN LEVEL FLOOR
PLAN

 Date:
 Drawing Number:

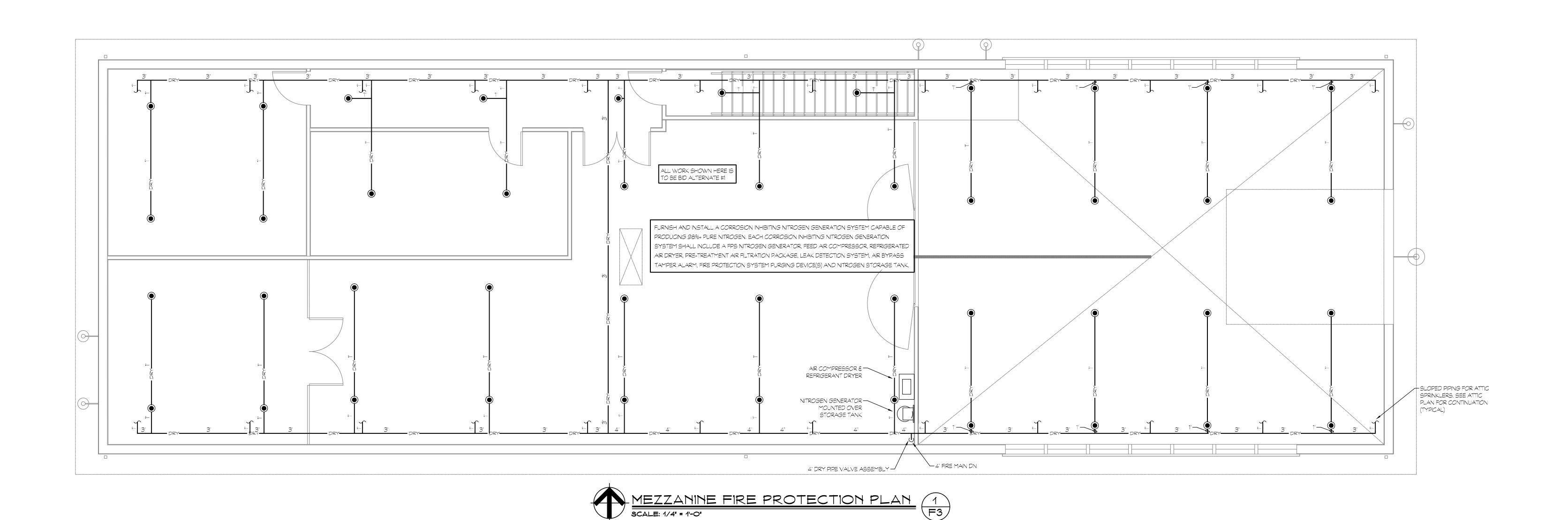
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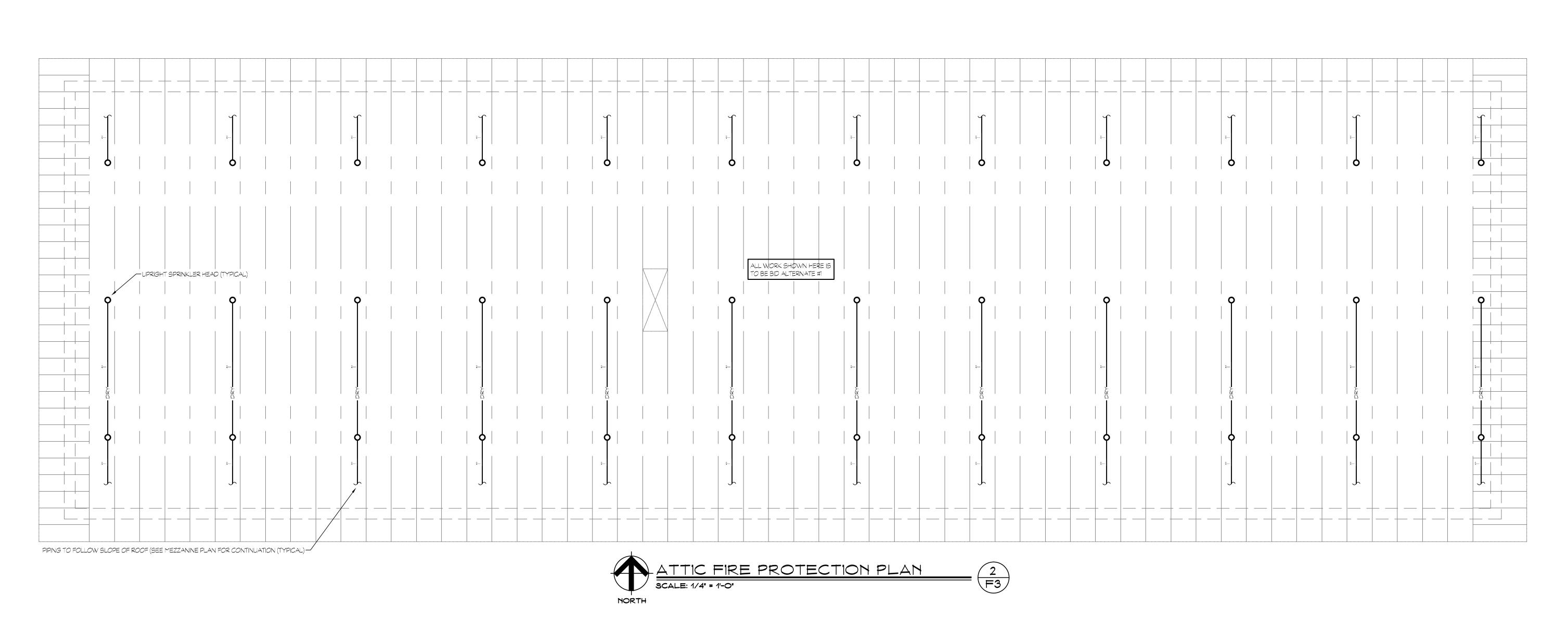
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 Project Number:

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ription: Date: Revised By:

FIRE PROTECTION MEZZANINE AND ATTIC PLANS

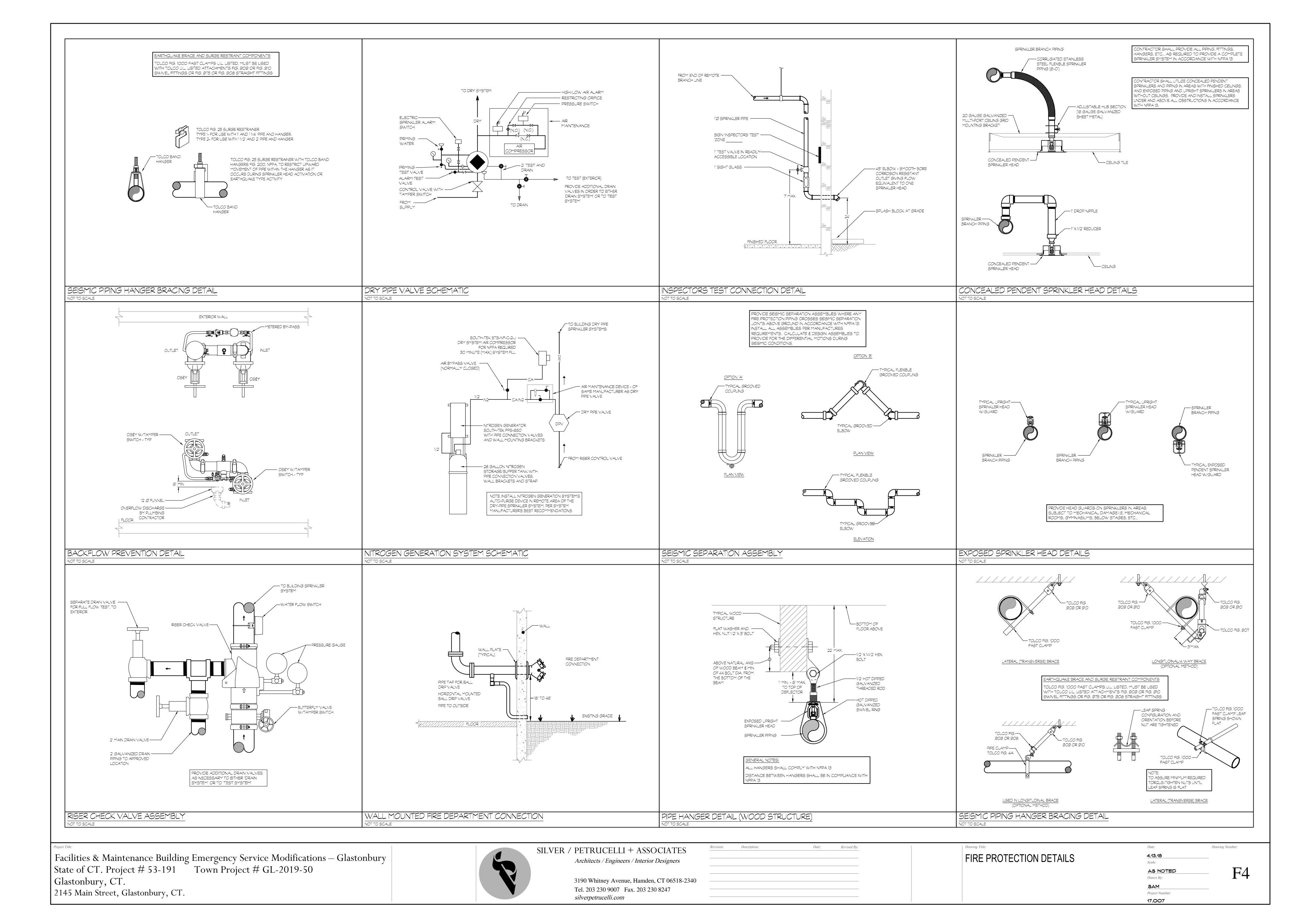
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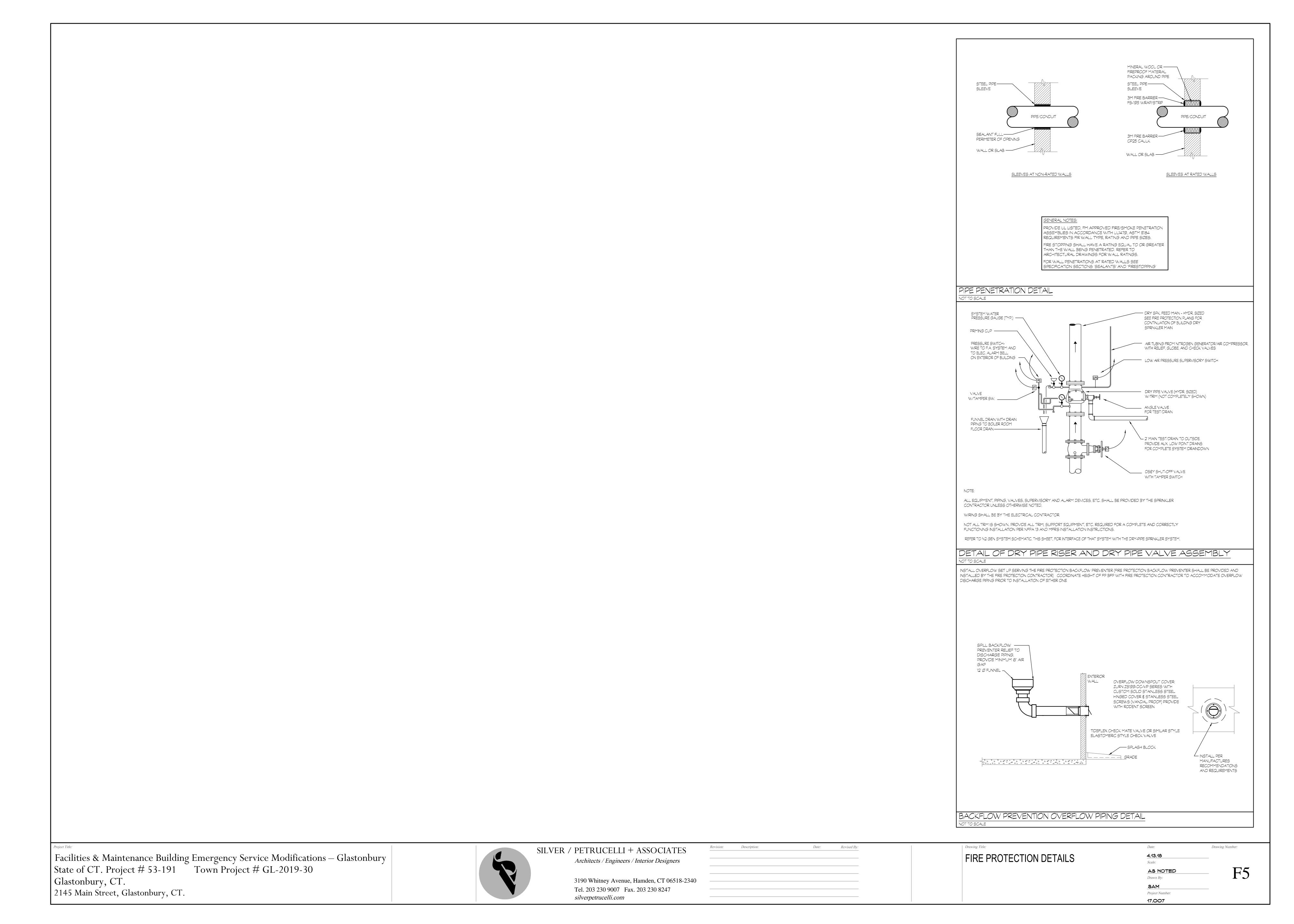
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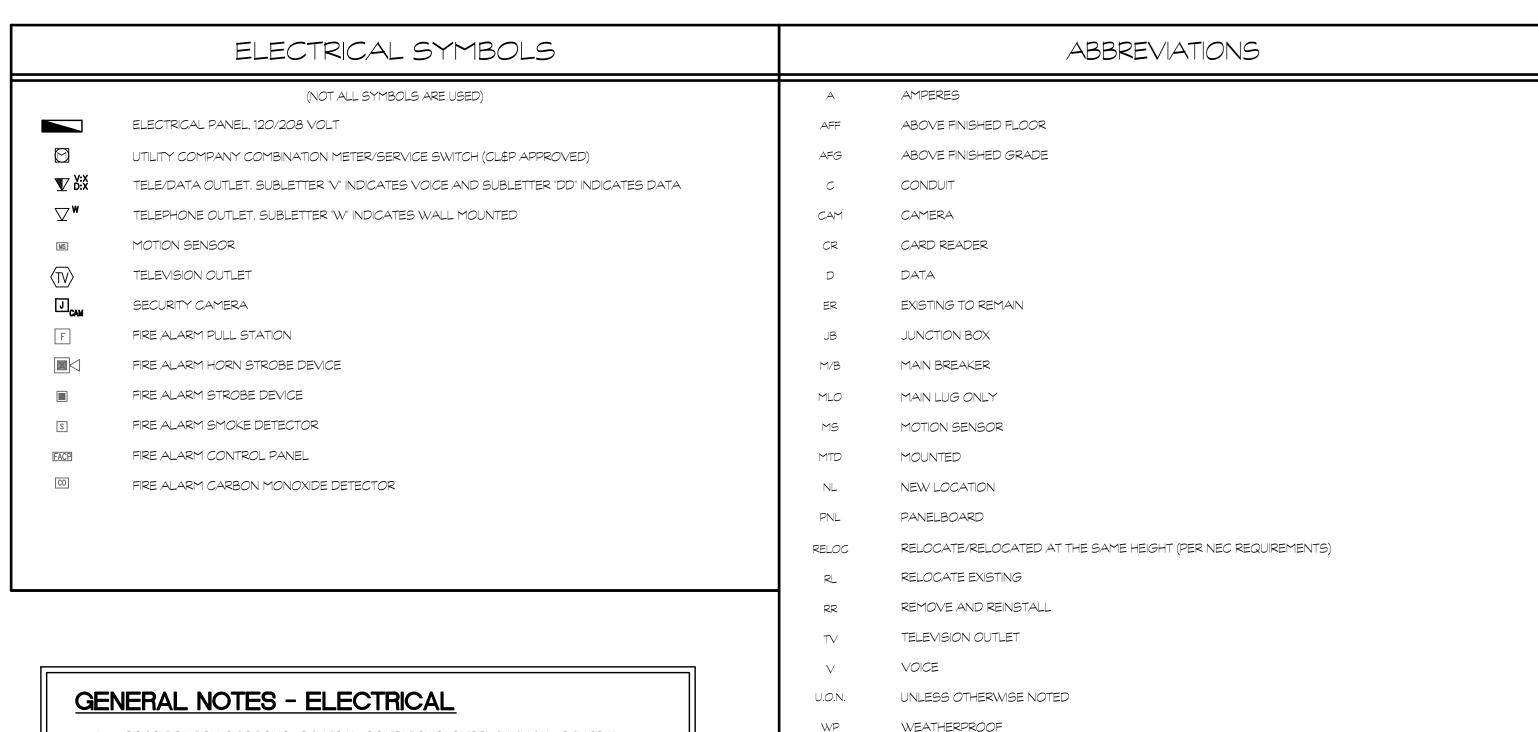
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SAM
Project Number:

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- SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS.
- 2. SYSTEM COMPONENTS ARE LOCATED APPROXIMATELY ON DRAWINGS. BASE ACTUAL LOCATIONS ON FIELD VERIFICATION OF EXISTING BUILDING CHARACTERISTICS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL & ARCHITECTURAL COMPONENTS.
- 3. ALL WORK AND ACTION DEPICTED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. REFERENCE TO SPECIFIC SUB-CONTRACTORS SUCH AS "MECHANICAL",
 "ELECTRICAL", ETC. ARE INTENDED TO SUGGEST POSSIBLE DIVISION OF
 RESPONSIBILITY. PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR
- COORDINATION AND EXECUTION OF ALL WORK.

 5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- 6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS NOTED OTHERWISE.
- 7. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- 8. CIRCUITING DEPICTED FOR RECEPTACLES & LIGHTING FIXTURES DEFINES GROUPING OF FIXTURES, DEVICES AND COMPONENTS AND REQUIRED CONDUCTORS. CIRCUITING IS NOT INTENDED TO DEFINE CONDUIT LOCATIONS.
- 9. STUDY THE PROJECT MANUAL & DRAWINGS OF OTHER DISCIPLINES INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL & MECHANICAL.
- 10. PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY CODE.
- 11. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
- 12. CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH UL LISTED FIRE STOPPING SEALANT WHERE REQUIRED.
- 13. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
- 14. FURNISH AND INSTALL GFCI RECEPTACLES LOCATED IN AREAS WHERE RECEPTACLES ARE INSTALLED WITHIN 1.8M (6 FT) OF THE OUTSIDE EDGE OF THE SINK.
- 15. ALL PENETRATIONS THRU RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING.
- 16. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS

REQUIRED FOR SERVICES UTILIZED IN THE STAIR.

17. ALL DEVICES WITHIN EXISTING AND NEW RATED WALLS (ON BOTH SIDES) SHALL BE SURFACE MOUNTED, REFER TO CODE PLANS FOR WALL RATING.

OTHER ELECTRICAL NOTES

- 1. CONTRACTOR SHALL COORDINATE THE LOCATION AND QUANTITY OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. PROVIDE POWER WIRING TO ALL NEW EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND INFORMATION.
- 2. ALL FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE FINISHED CEILING OR STRUCTURE AND SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY CODE AND THE AUTHORITY HAVING JURISDICTION.
- 3. ALL BRANCH CIRCUIT WIRING SHOWN IS DIAGRAMMATIC. EXACT ROUTING SHALL BE FIELD COORDINATED TO CLEAR THE WORK OF OTHER TRADES.
- 4. IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE. ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
- 5. CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.
- 6. NO CONDUIT SHALL BE ALLOWED IN CONCRETE SLABS, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
- 7. LABEL ALL UNUSED BREAKERS AS SPARE AND TRIP TO THE OFF POSITION.
- 8. ALL DEVICE COLORS SHALL BE WHITE.9. ALL PANEL DIRECTORIES SHALL BE UPDATED AT THE COMPLETION OF THE
- PROJECT IN ACCORDANCE WITH NEC 408.4.
- 10. CONTRACTOR SHALL COORDINATE ALL CAMERA LOCATIONS WITH OWNER BEFORE ROUGHING IN.
- 11. CONTRACTOR SHALL REMOVE EXISTING INVERTER FOR EXTERIOR LIGHTS AND TURN OVER TO OWNER.

| ELECTRICAL KEYNOTES

- $\widehat{\mathbf{x}}$
- EXISTING 400A MANUAL TRANSFER SWITCH TO BE REMOVED AND REPLACE WITH 400A, SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH BY CUMMINS. REFER TO ONE—LINE RISER ON DRAWING E2 FOR FURTHER INFORMATION.
- 2 EXISTING 400A MAIN CIRCUIT BREAKER CABINET TO REMAIN.
- (3) EXISTING 400A MAIN LUG PANEL "A" TO REMAIN.
- NEW CUMMINS 50KW NATURAL GAS FIRED GENERATOR ON PAD. GENERATOR TROUBLE ALARM SHALL BE REMOTELY MONITORED THROUGH FIRE ALARM SYSTEM. GENERATOR SHALL HAVE 175A OUTPUT CIRCUIT BREAKER, LEVEL 1 ENCLOSURE, 6 AMP BATTERY CHARGER, COOLANT HEATER AND CRANKCASE HEATER.
- NEW FIRE ALARM CONTROL PANEL. SYSTEM SHALL BE BY THE SAME MANUFACTURER AS THE TOWN OF GLASTONBURY TOWN HALL SYSTEM AND SHALL ALARM LOCALLY. SYSTEM SHALL MONITOR GENERATOR FOR TROUBLE STATUS.
- (6) EXISTING LIGHTING AND POWER LOCATIONS IN THESE AREAS SHALL REMAIN.
- NEW PV SYSTEM INVERTER. COORDINATE EXACT LOCATION WITH OWNER IN FIELD.
- (8) INSTALL 150A-3P CIRCUIT BREKAER IN POSITION 38/40/42 FOR PHOTOVOLTAIC SYSTEM. CIRCUIT BREAKER SHALL BE CLEARLY LABELED "PV SYSTEM FEED".
- PROVIDE 200A, 240V, NEMA 3R DISCONNECT ON EXTERIOR OF BUILDING NEXT TO UTILITY METER FOR PV SYSTEM DISCONNECT. PROVIDE LABEL ON SWITCH STATING "PHOTOVOLTAIC SYSTEM DISCONNECT SWITCH". REFER TO PV SYSTEM GENERAL NOTES ON DRAWING E2 FOR FURTHER INFORMATION.
- PROVIDE BASELITE MC12/21A/BAX/UGR/B13/SQLWTM/LED10W/3K/120/277V LED LIGHT FIXTURE. FIXTURE MOUNTING HEIGHT SHALL MATCH EXISTING. EXACT LOCATION OF FIXTURES TO BE DETERMINED IN FIELD. CONNECT NEW FIXTURE TO EXTERIOR BUILDING LIGHTING CIRCUIT.
- 1) PROVIDE NEW EXIT SIGN TO MATCH EXISTING AS CLOSE AS POSSIBLE IN LOCATION INDICATED. EXIT SIGN SHALL BE WIRED AHEAD OF SWITCH LEG. TYPICAL OF FIVE.
- PROVIDE NEW LIGHT FIXTURES IN STAIRWELL TO MATCH EXISTING AS CLOSE AS POSSIBLE IN LOCATION INDICATED. CONNECT TO CLOSEST LIGHTING CIRCUIT.TYPICAL OF
- PROVIDE NEW EMERGENCY LIGHT FIXTURES TO MATCH EXISTING AS CLOSE AS POSSIBLE IN LOCATION INDICATED. EMERGENCY LIGHT SHALL BE WIRED AHEAD OF SWITCH LEG. TYPICAL OF FIVE.
- PROVIDE 2#12 & 1#12G IN 3/4"C FROM NEW RECEPTACLES TO SPARE 20A-1P CIRCUIT BREAKER IN PANEL A.
- EXISTING LIGHT SWITCH TO REMAIN. EXTEND/ALTER CONDUIT/WIRING TO NEW LIGHT FIXTURE AS REQUIRED TO MAINTAIN SWITCHING.
- RELOCATE EXISTING LIGHT SWITCH TO LOCATION INDICATED ON PLAN. EXTEND/ALTER CONDUIT/WIRING TO NEW SWITCH LOCATION AS REQUIRED TO MAINTAIN SWITCHING.
- PROVIDE NEW FOUR-WAY LIGHT SWITCH FOR STAIRWELL FIXTURES. PROVIDE ADDITIONAL WIRING TO NEW LIGHT FIXTURE AS REQUIRED.
- PROVIDE NEW 6" ROUND LED DOWNLIGHT EQUAL TO JUNO 6CLR6S 15LM 35K 80CRI 120 ZT WWH. CONNECT TO CLOSEST LIGHTING CIRCUIT.

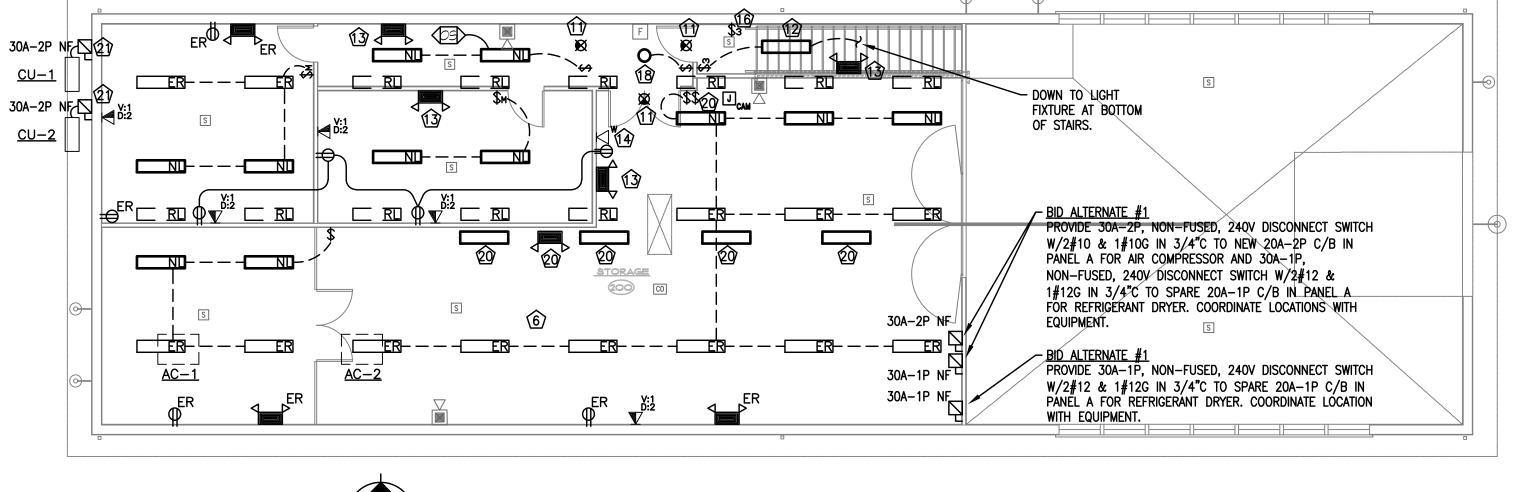
(19) EXISTING AIR COMPRESSOR TO BE RELOCATED TO THE RIGHT OF THE MANIFOLD,

REQUIRED TO NEW COMPRESSOR LOCATION. COORDINATE LOCATION OF DISCONNECT SWITCH IN FIELD.

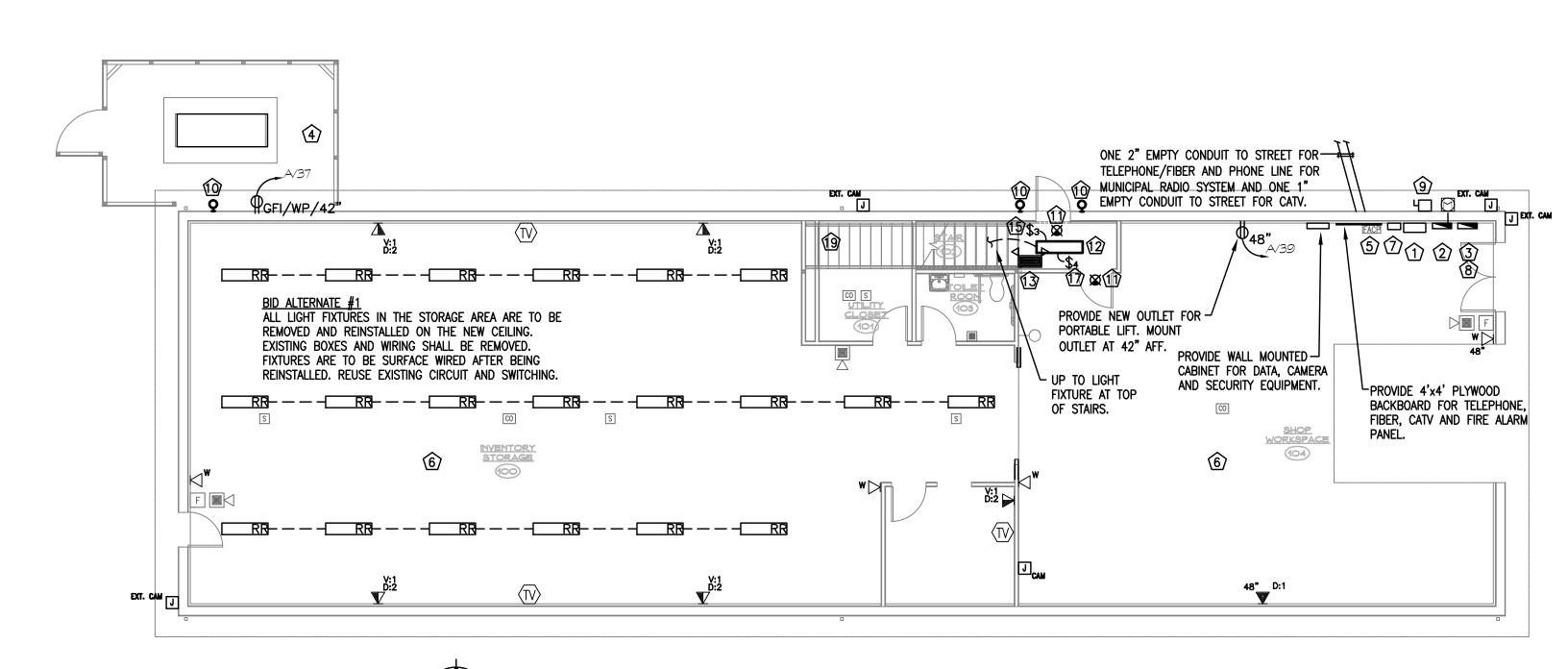
PROVIDE LED STRIPLIGHT FIXTURES IN ATTIC EQUAL TO COLUMBIA LR04—35LW—EU.

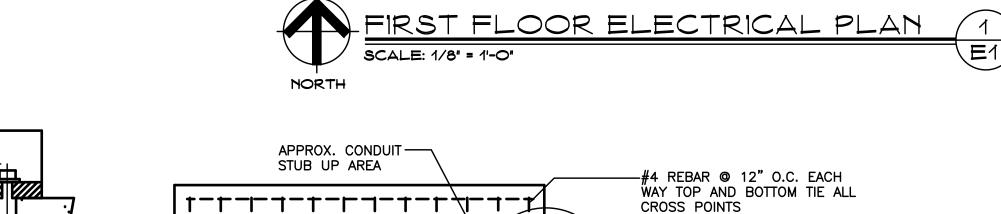
RELOCATE EXISTING DISCONNECT SWITCH AND EXTEND/ALTER CONDUIT/WIRING AS

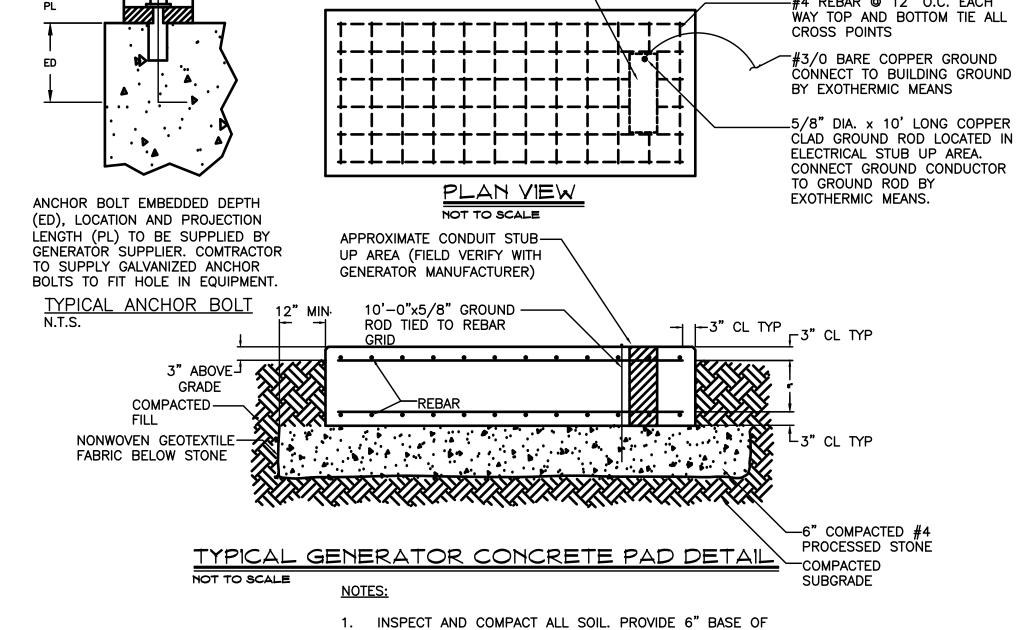
- PROVIDE LED STRIPLIGHT FIXTURES IN ATTIC EQUAL TO COLUMBIA LRO4-35LW-EU.
 PROVIDE SWITCH IN STORAGE AREA AND LABEL SWITCH "ATTIC LIGHTS". CONNECT
 FRIXTURES TO MEZZANINE LIGHTING CIRCUIT. PROVIDE NEW EMERGENCY LIGHT AFFIXED
 TO ROOF STRUCTURE NEAR ATTIC HATCH.
- PROVIDE 30A-2P, NON-FUSE, 240V, NEMA 3R DISCONNECT ON BUILDING EXTERIOR FOR OUTDOOR CONDENSING UNITS, PROVIDE 2#12 & 1#12G IN 3/4°C TO NEW 20A-2P C/B IN PANEL A FOR CONDENSER CU-1 AND 2#12 & 1#12G IN 3/4°C TO NEW 20A-2P C/B IN PANEL A FOR CONDENSER CU-2. PROVIDE 2#12 & 1#12G IN 3/4°C FROM EACH CONDENSER TO CORRESPONDING AC UNIT ABOVE ME77ANINE CEILING FOR AC CONTROL.











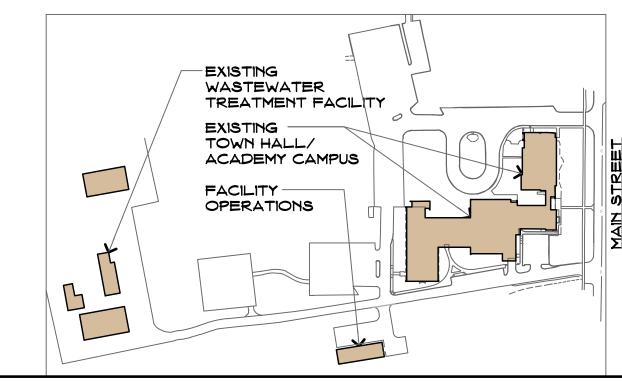
 INSPECT AND COMPACT ALL SOIL. PROVIDE 6" BASE OF ITEM #4 PROCESSED STONE, COMPACTED.

3. CONCRETE SHALL BE 4000 PSI @ 7 DAYS.4. LENGTH AND WIDTH OF PAD TO BE 12" WIDER ON EACH

2. ALL EXPOSED EDGES SHALL BE 3/4" CHAMFER

SIDE THAN GENERATOR ENCLOSURE.

Description:



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Date: Revised By:	Drawing Title:
	POWER AND SYSTEMS FLO
	PLANS - ELECTRICAL
	,

Date:

4.13.18
Scale:

AS NOTED
Drawn By:

GK
Project Number:

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