

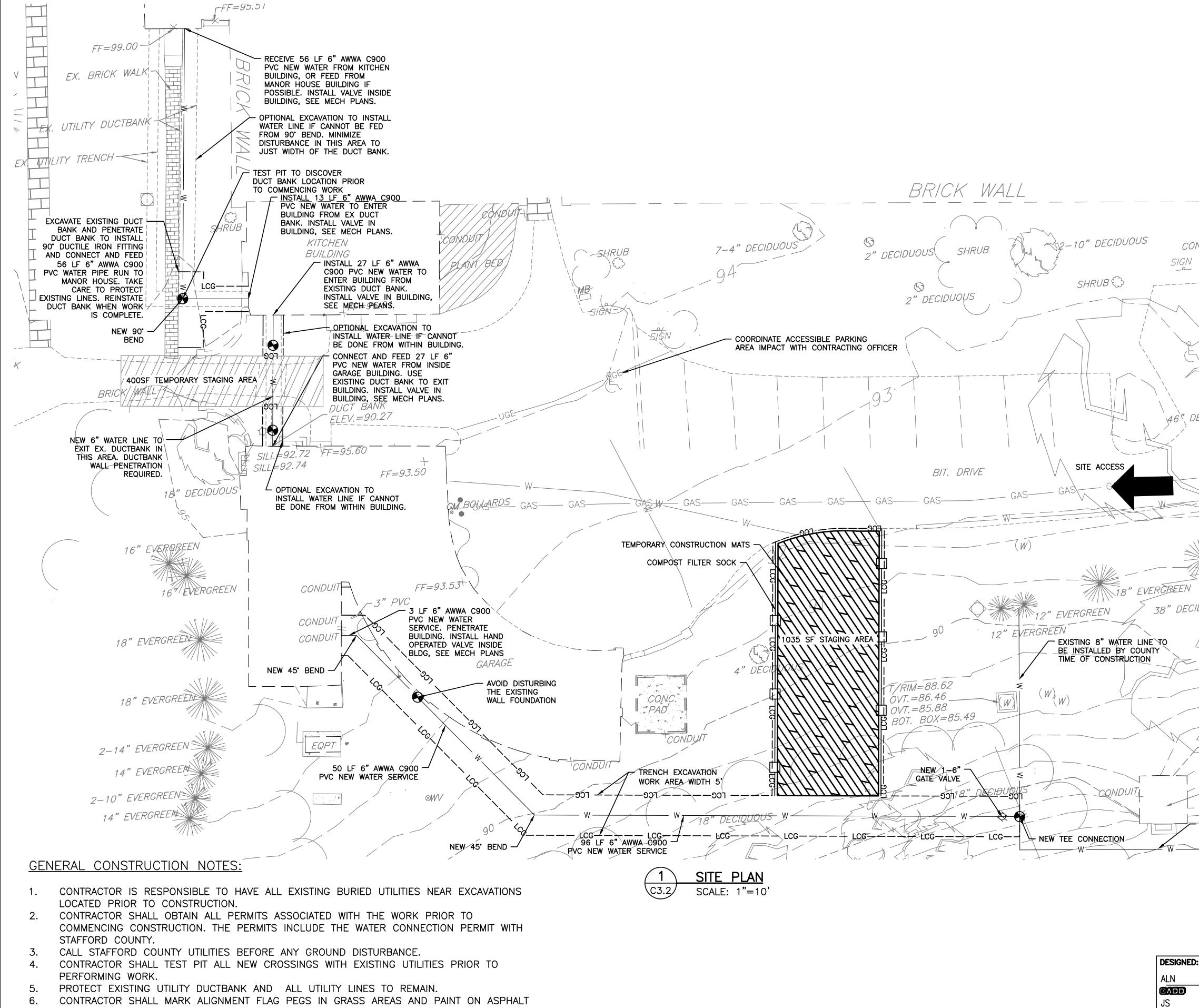
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H. REVIEW:			РМІS/РКС NO. 201227
: /20/2020		CHATHAM MANOR FIRE PROTECTION RENOVATION FRSP NATIONAL MILITARY PARK	sheet of 19



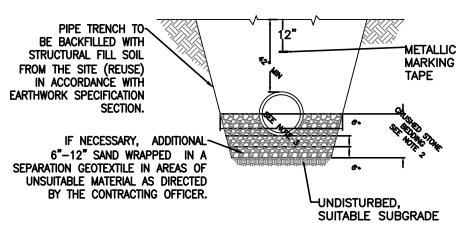
APPROVAL PRIOR TO STARTING WORK. SITE SHALL BE RESTORED TO ITS EXISTING CONDITION UPON COMPLETION OF SITE ACTIVITIES. 7. SITE SHALL BE CONSIDERED ACCEPTABLE UPON APPROVAL OF THE CONTRACTING OFFICER.

AREAS FOR NEW WATER LINE CONSTRUCTION AND SUBMIT PLAN FOR CONTRACTING OFFICER'S

JCS DATE: 05.15.2020

SITE WORK NOTES: 1. SITE IS HISTORICALLY AND ARCHEOLOGICALLY SENSITIVE. CONTRACTOR SHALL KEEP PERSONNEL, EQUIPMENT AND MATERIALS WITHIN THE LIMITS OF DISTURBANCE. CONTRACTOR SHALL INVESTIGATE ALL TEST PIT AREAS BEFORE 2. FULLY MOBILIZING MATERIALS. EXISTING DUCT BANK SHOULD CONSIST OF CONCRETE SIDES AND 3. METAL DROP IN LID. EXCAVATE DUCT BANK AS LITTLE AS POSSIBLE TO MINIMIZE DISTURBANCE TO THE SITE. DUCT BANK SHALL BE REINSTATED SO THAT IT IS SNUG AND WATER TIGHT, TO PREVENT MOISTURE IN THE TRENCH AND FROM GETTING INTO THE BUILDING. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH STAFFORD 4. COUNTY UTILITIES STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL USE 45° BENDS OR LESS TO REDUCE 5. PRESSURE LOSS, UNLESS NOTED OTHERWISE. INSTALL COMPOST FILTER SOCK OR APPROVED EQUAL AS SHOWN. 6. | 7. MOUND SOIL FROM TRENCH EXCAVATION ON HIGH SIDE OF TRENCH. CONDUIT 8. CONTRACTOR SHALL PROTECT ALL EXISTING NATURAL AND BUILT SITE FEATURES TO THE GREATEST EXTENT POSSIBLE. SITE ITEMS IMPACTED BY THE WORK OF THIS CONTRACT SHALL BE RESTORED -----TO THEIR FORMER CONDITION, AT NO ADDITIONAL COST TO THE GOVERNMENT. ALL EQUIPMENT AND PIPING MATERIALS SHALL BE STORED WITHIN THE LIMIT OF CLEARING AND STAGING AREA. GARAGE <u>LEGEND</u> EXISTING DECIDUOUS PLANT BED BRICK SIDEWALK SLATE SIDEWALK CONCRETE PAD 💭 4" DECIDUOUS DECIDUOUS TREE & SIZE 2-10" EVERGREE EVERGREEN TREE & SIZE 18" EVERGREEN WVWATER VAULT/VALVES 38" DECIDUOUS STRUCTURE UNDERGROUND ELECTRIC LINE WATER LINE NATURAL GAS LINE PROPOSEL ASPHALT STAGING AREA CONSTRUCTION MAT - PUMP HOUSE WATER VALVE TEST PIT EXISTING 8" WATER LINE TO BE INSTALLED BY COUNTY LIMITS OF CLEARING ——— LCG——— TIME OF CONSTRUCTION AND GRADING NEW WATER LINE COMPOST FILTER SOCK SCALE OF FEET SUB SHEET NO. TITLE OF SHEET DRAWING NO. 404 SITE PLAN 80032 PMIS/PKG NO. TECH. REVIEW: 201227 SHEET CHATHAM MANOR FIRE SUPPRESSION RENOVATION

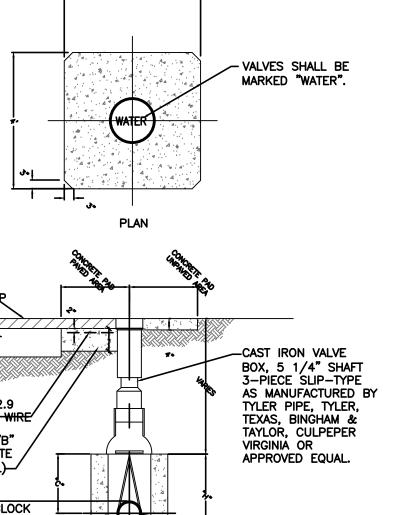
FRSP NATIONAL MILITARY PARK

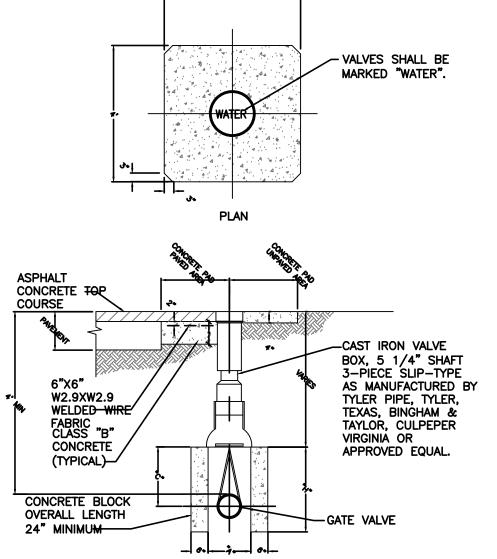


NOTES:

- 1. TRENCH SHALL BE BACKFILLED TO THE SURROUNDING EXISTING GROUND ELEVATION OR PAVEMENT SUBGRADE, WHICHEVER IS LOWER.
- 2. FOR FLEXIBLE PIPE BRING CRUSHED STONE TO SPRING LINE OF PIPE.
- PIPE OUTSIDE DIAMETER + 2'-0" FOR PIPES UP TO AND INCLUDING 18" INSIDE DIAMETER,
- 4. GEOTEXTILE SHALL BE NON-WOVEN NEEDLE PUNCHED AND HAVE AN AVERAGE OPENING SIZE OF LESS THAN 0.6MM AND PERMEABILITY GREATER THAN 10 CM/SEC.
- 5. TRENCH BACKFILL AND COMPACTION SHALL BE PER EARTHWORKS SPECIFICATION. TYPICAL UTILITY MAIN TRENCH DETAIL

NO SCALE



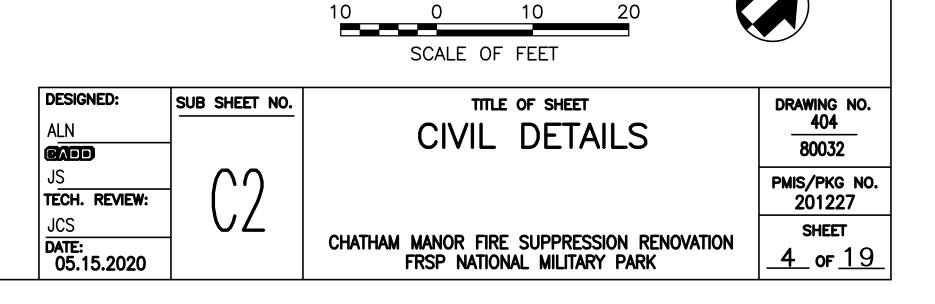


ELEVATION NOTE: LEFT OR RIGHT VALVE CLOSURE TO BE SUITABLY MARKED IN THE FIELD.

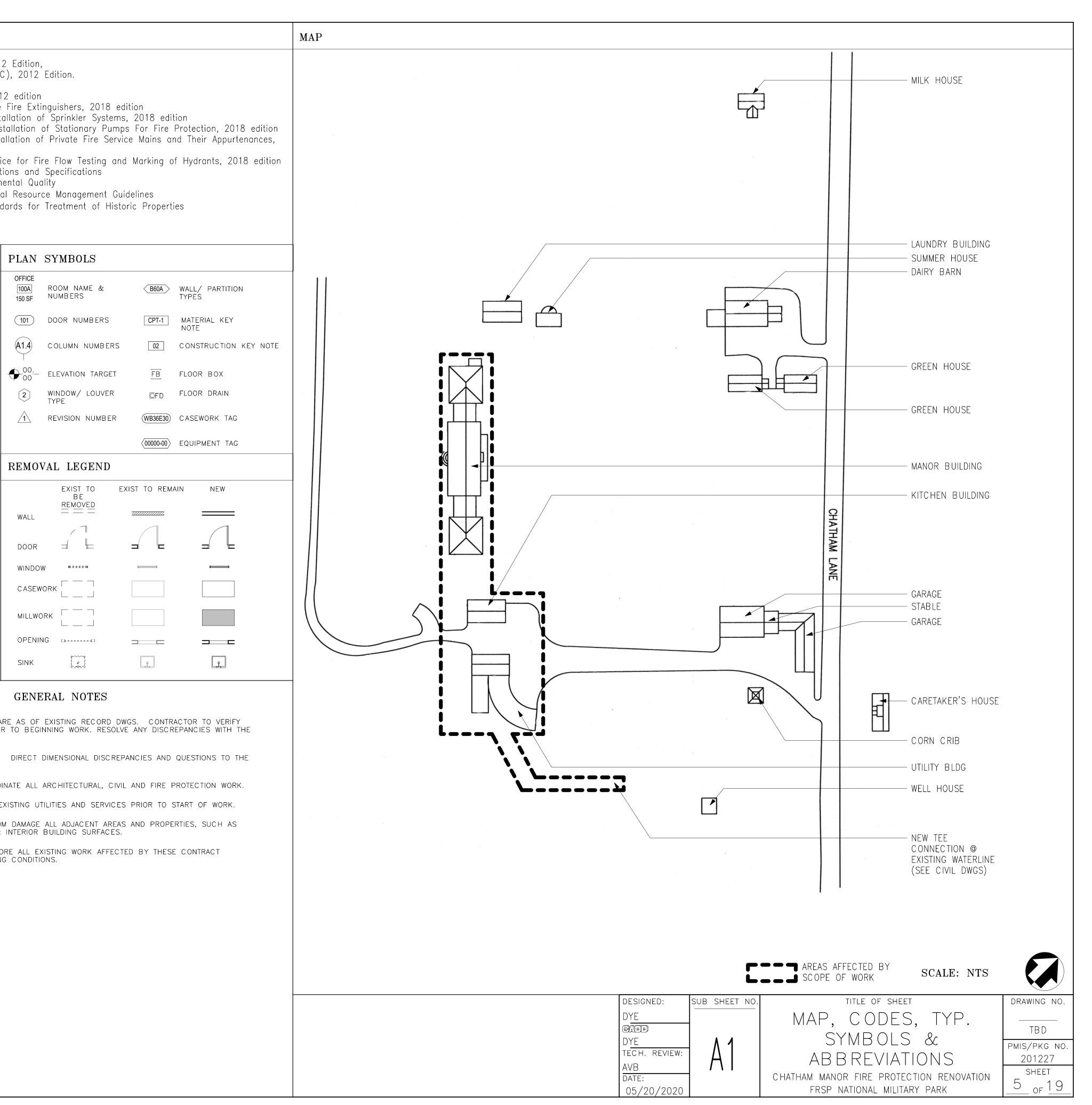
		SCHE	DULE
PIPE SIZE	"A"	"C"	"H"
1"—2"	11"	0'-6 1/4"	1'- 1"
4"	11"	1'-2 3/4"	1'-10"
6"	12"	1'-5 1/2"	2'- 2"
8"	15"	1'—9"	2'- 6"
10"	18"	2'-0 3/4"	3'- 0"
12"	21"	2'-4 1/4"	3'- 5"

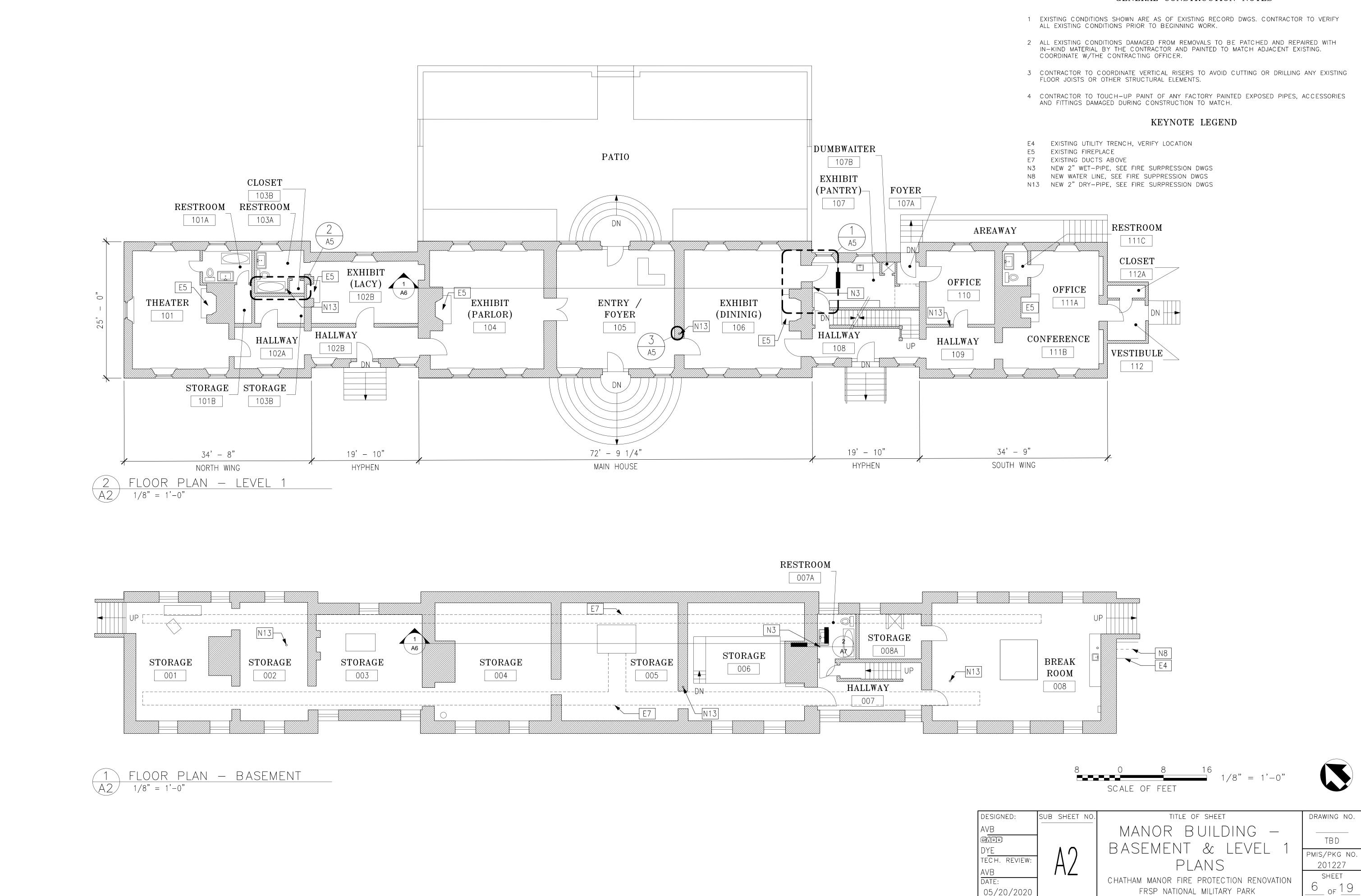
_	DOMESTIC	WATER	LINE	VALVE
	NO SCALE			

VALVE BOX BASE
NO. 4 ROUND
NO. 4 ROUND
NO. 6 ROUND
NO. 6 ROUND
NO. 160 OVAL
NO. 160 OVAL

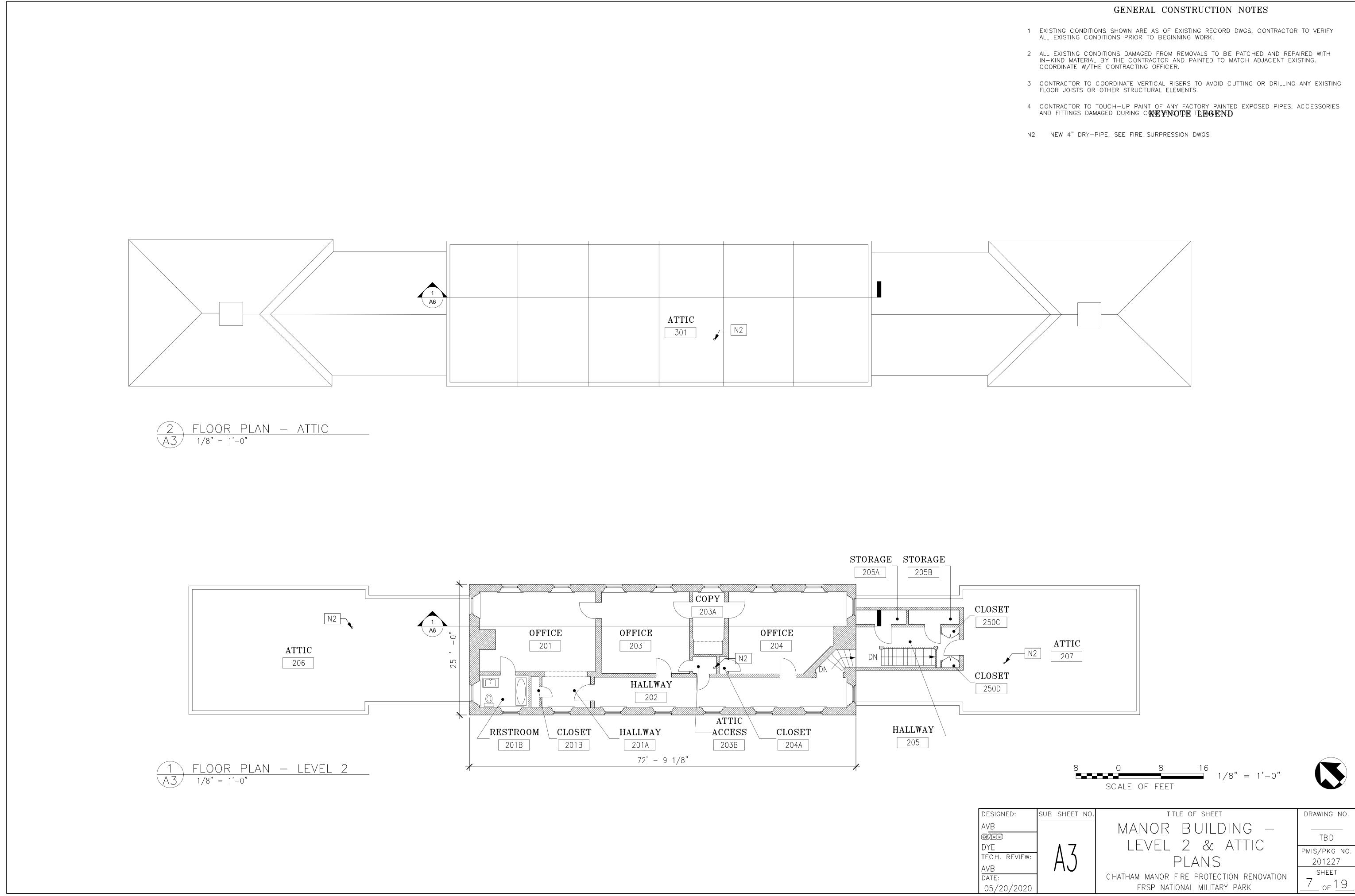


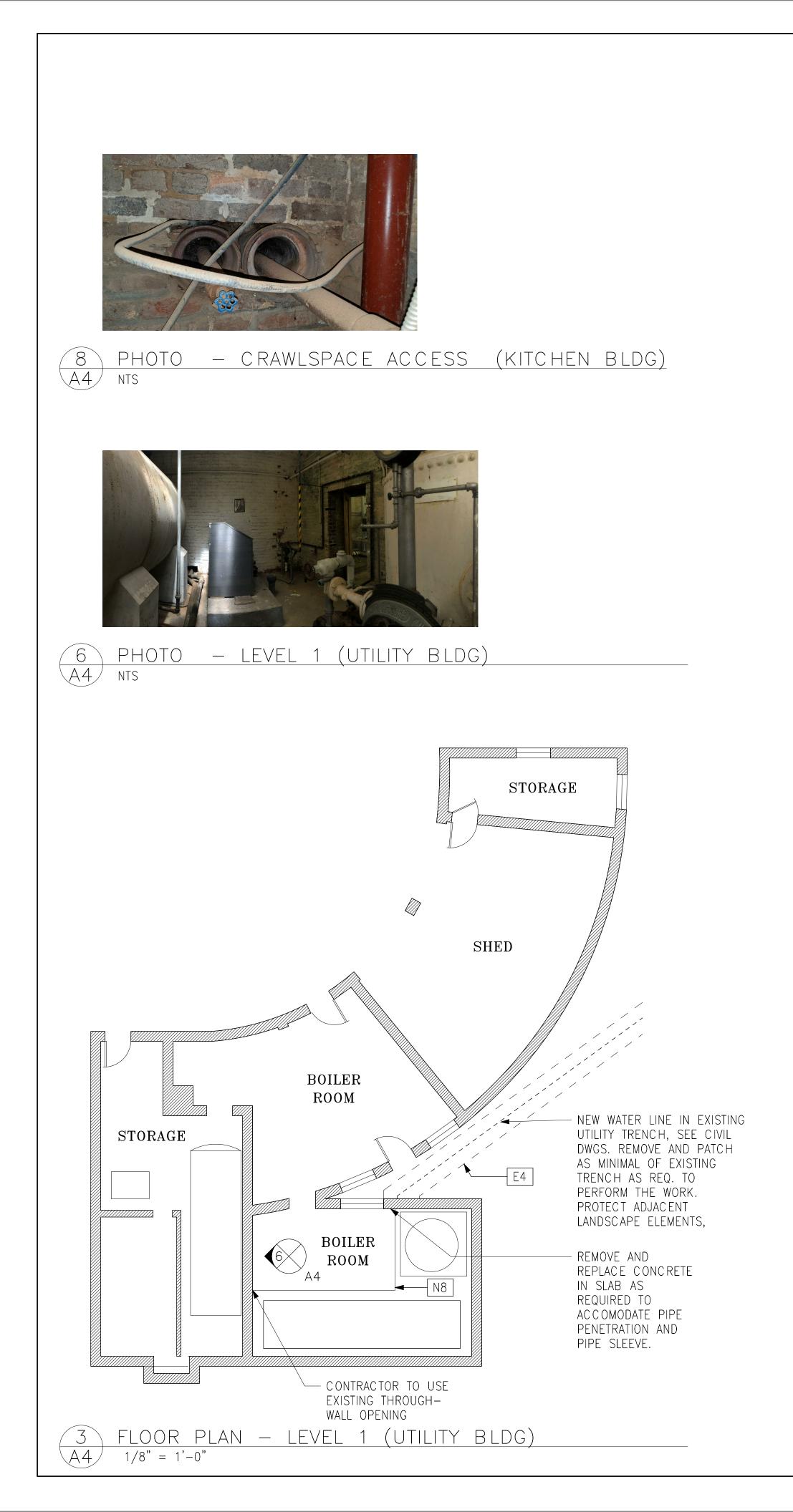
Al	RCH ABBREVIATIONS	A	ARCH ABBREVIATIONS	APPLICABLE CODES
AAF ABV ACCES ADJ AFF ALT ALUM ANOD AP APPD APPD APPROX ARCH BD BEL BET BKBD BLDG BLKG BM BOD BOT BRK BRKT BSMT CEM CF CJ CLG CLR CF CJ CLG CLR CONC CONST CONT CONT CONT CONT CONT CONT CONT CON	ABOVE ACCESS FLOOR ABOVE ACCESSIBLE ADJACENT ABOVE FINISHED FLOOR ALTERNATE ALUMINUM ANODIZED ACCESS PANEL APPROVED APPROVED APPROXIMATE ARCHITECTURE (URE,URAL) BOARD BELOW BETWEEN BACKBOARD BUILDING BLOCKING BLOCKING BLOCKING BEAM BASIS OF DESIGN BOTTOM BRICK BRACKET BASEMENT CEMENT CUBIC FOOT CONTROL JOINT CELLING (SEE ALSO MECH ABBREVIATIONS) CLEAR(ANCE) CONCRETE MASONRY UNIT CONTRACTING OFFICER COLUMN CONCRETE CONTRACTING OFFICER CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE CERAMIC TILE CONTRACTING CONTINU(OUS,ATION) CONTRACTOR CONTINU(OUS,ATION) CONTRACTOR CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE CERAMIC TILE CUBIC YARD DETAIL DRAWINGS ENCLO(ES,SURE) EDGE OF SLAB ELECTRICAL PANEL EQUAL EQUIPMENT EXISTING TO BE RELOCATED EACH WAY EXPANSION FLOOR TO CEILING FINSH(ED) FLOOR FACE OF BRICK FACE OF CONCRETE FACE OF PILASTER	JT JTS KS LAM LGMF LIN LP MTD MTL N.I.C. NO MTD MTL N.I.C. NO NOM NTS OA OC OD OH OPG OPP PLAS PLYWD PNL PS PSF PSI PT PTD PTD PTD PTD PTN QTY RAD REF REQ'D RLE RM SC SF SHT SIM SLD SPEC SQ STD STRUCT SUSP SYS T&B T/T/F T/W THK TYP UNFIN UNFIN UNO	JOINT JOINTS KNEE SPACE, KICK SPACE LAMINATED LIGHT GAUGE METAL FRAMING LINEN LOW POINT MOUNT(ED) METAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVERALL ON CENTER OUTSIDE DIAMETER OVERHEAD OPENING OPPOSITE PLASTER PLYWOOD PANEL PROJECTION SCREEN POUNDS PER SQUARE INCH PRESSURE TREATED PAINTED PARTION QUANTITY RADIUS REFERENCE REQUIRED RELOCATE EXISTING ROOM SPECIAL COATING, SOLID CORE SQUARE FOOT/FEET SHEET SIMILAR SEALED SPECIFICATION SQUARE STANDARD STRUCUR(E, AL) SUSPEND(ED) SYSTEM	Virginia Construction Code, 2012 Virginia Rehabilitation Code (VRC), CPSM, 2017 Edition. International Building Code, 2012 NFPA 10, Standard for Portable Fi NFPA 13, Standard for The Installo NFPA 20, Standards for The Installo NFPA 20, Standard for the Installo 2010 edition NFPA 291, Recommended Practice Stafford County Utilities Regulation Virginia Department of Environment Director's Order (D0) 28 Cultural The Secretary of Interior's Standar RCP LEGEND EXISTING CEILING EXISTING CEILING EXISTING CEILING EXISTING CEILING EXISTING CHANDELIER FIXTURE EXISTING SPOTLIGHT FIXTURE EXISTING AIR SUPPLY EXISTING 2X4 FIXTURE EXISTING SQUARE LIGHT FIXTURE EXISTING SQUARE LIGHT FIXTURE
FRT FS FT GC HWD I.E. ID IN INV	FIRE RETARDANT TREAT(ED,MENT) FLOOR SINK FEET, FOOT, FULL TIME GENERAL CONTRACTOR HARDWOOD THAT IS INSIDE DIAMETER INTERIOR INVERT(ED)	VIF W/W/O WC WD	VERIFY IN FEILD WIDE, WIDTH, WATER WITH WITHOUT WATER CLOSET WOOD	 EXISTING CONDITIONS SHOWN ARE ALL EXISTING CONDITIONS PRIOR T CONTRACTING OFFICER. DO NOT SCALE THE DRAWINGS. I CONTRACTOR TO FULLY COORDINA CONTRACTOR TO LOCATE ALL EXIS CONTRACTOR TO PROTECT FROM I LANDSCAPING AND EXTERIOR & IN THE CONTRACTOR SHALL RESTORE DOCUMENTS TO MATCH EXISTING OFFICE





GENERAL CONSTRUCTION NOTES





E4 EXISTING UTILITY TRENCH, VERIFY LOCATION NEW WATER LINE, SEE FIRE SUPPRESSION DWGS N8

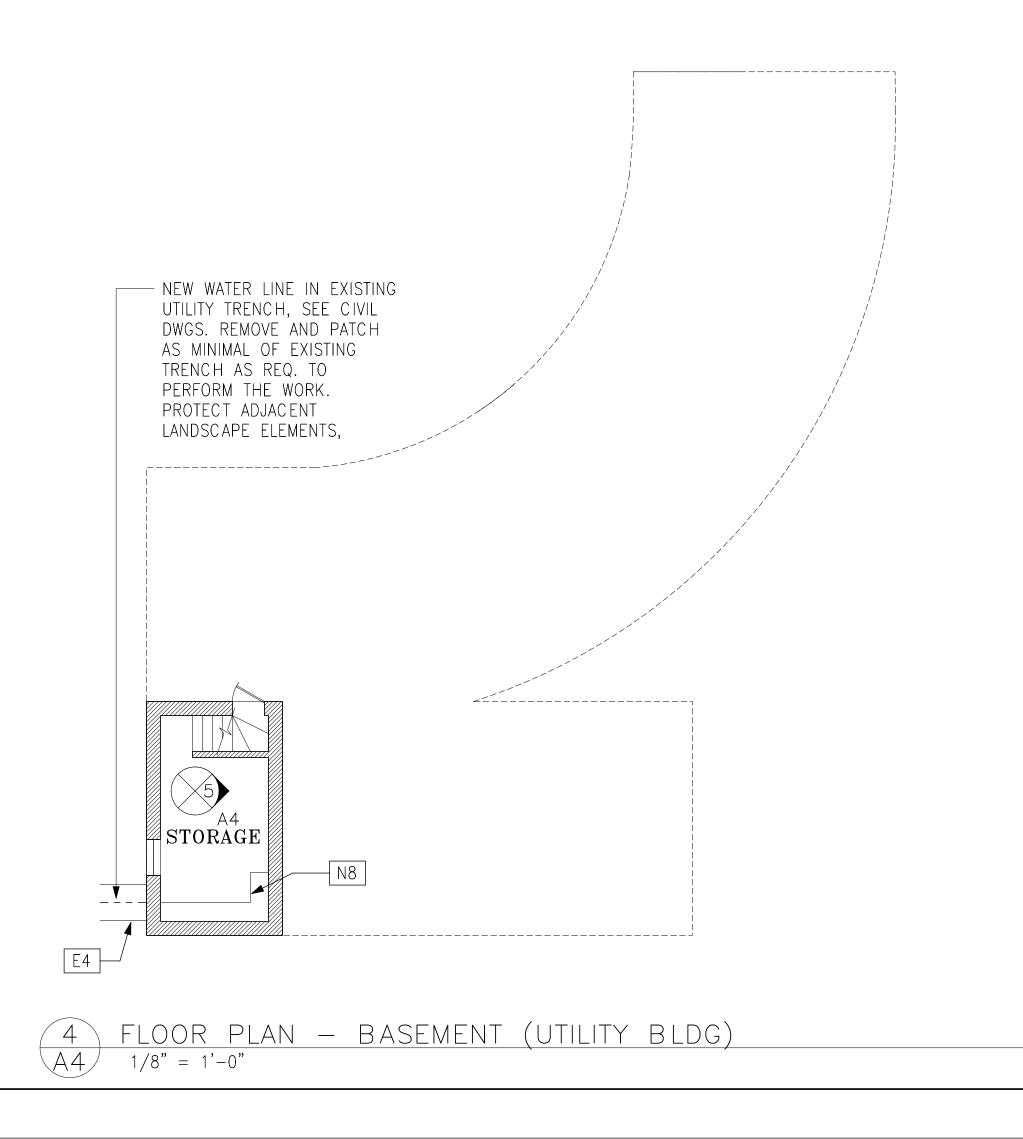


CONTRACTOR TO CAREFULLY REMOVE AND PROTECT EXISTING ACCESS HATCH COVER TO PERFORM WORK AND PROTECT ADJACENT AREAS. COORDINATE ANY REPAIRS W/THE CONTRACTING OFFICER.



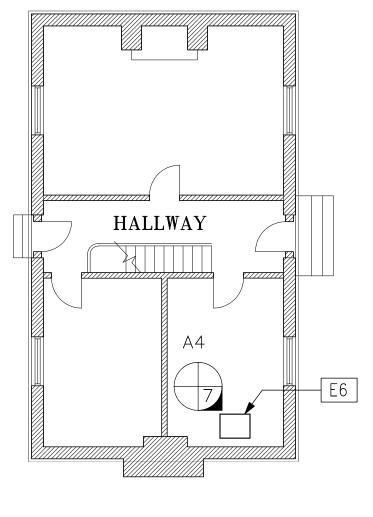




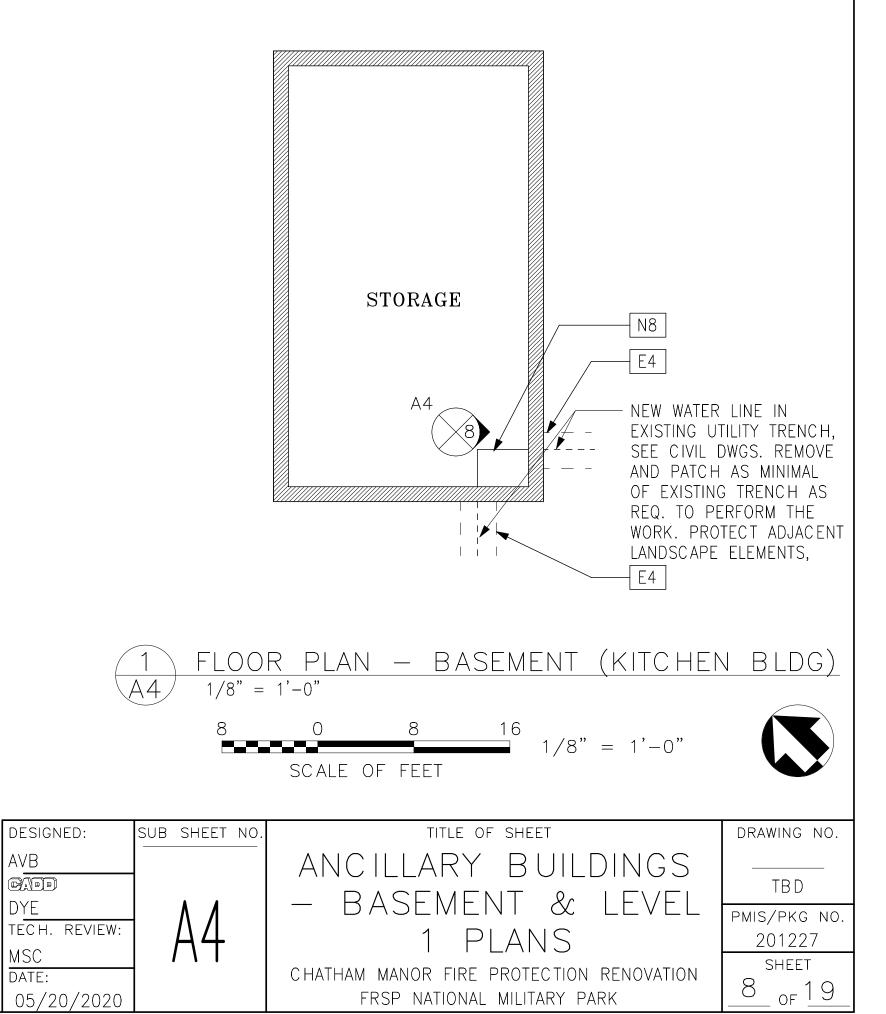


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- 3 CONTRACTOR TO COORDINATE VERTICAL RISERS TO AVOID CUTTING OR DRILLING ANY EXISTING FLOOR JOISTS OR OTHER STRUCTURAL ELEMENTS.
- 4 CONTRACTOR TO TOUCH-UP PAINT OF ANY FACTORY PAINTED EXPOSED PIPES, ACCESSORIES AND FITTINGS DAMAGED DURING CONSTRUCTION TO MATCH.







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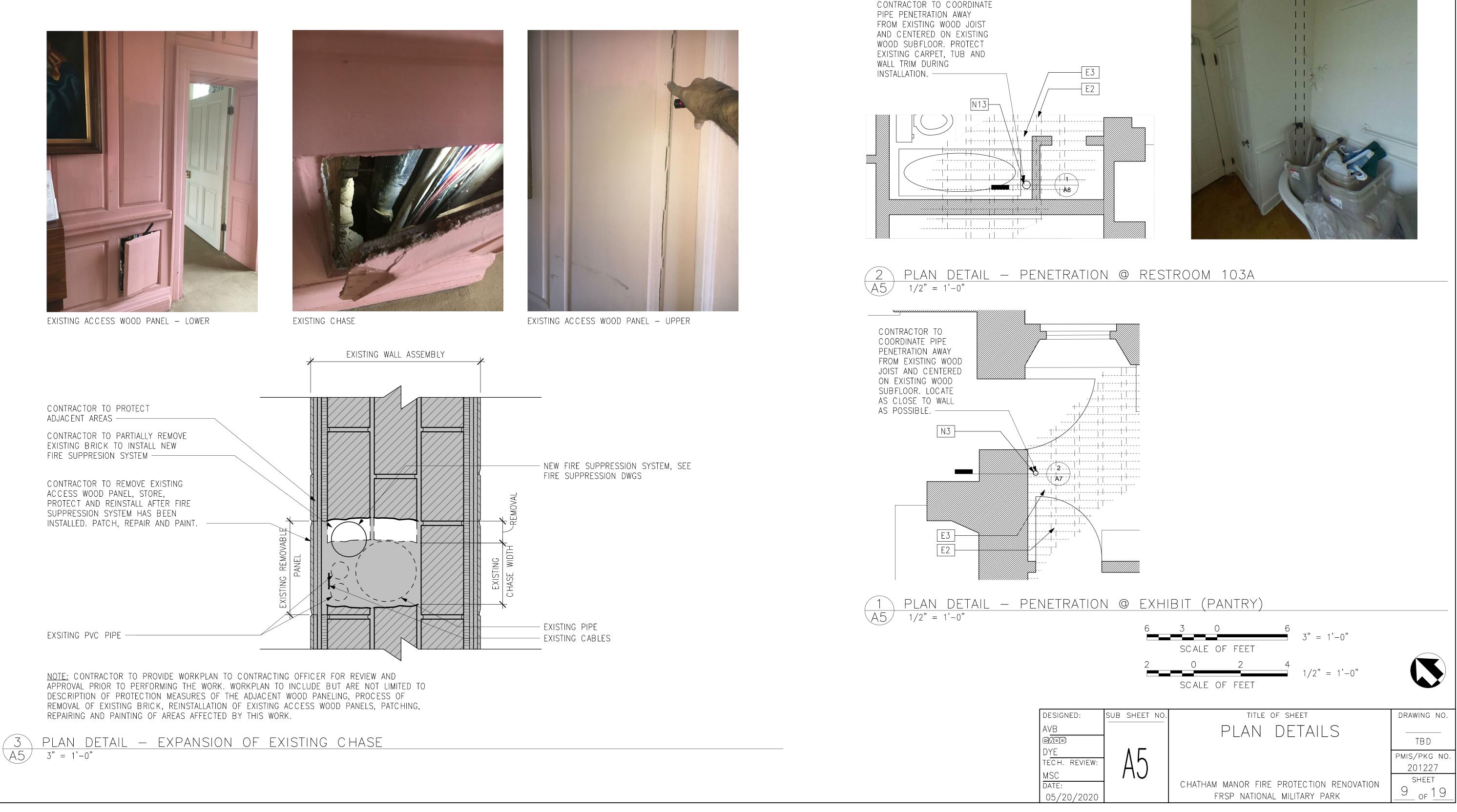
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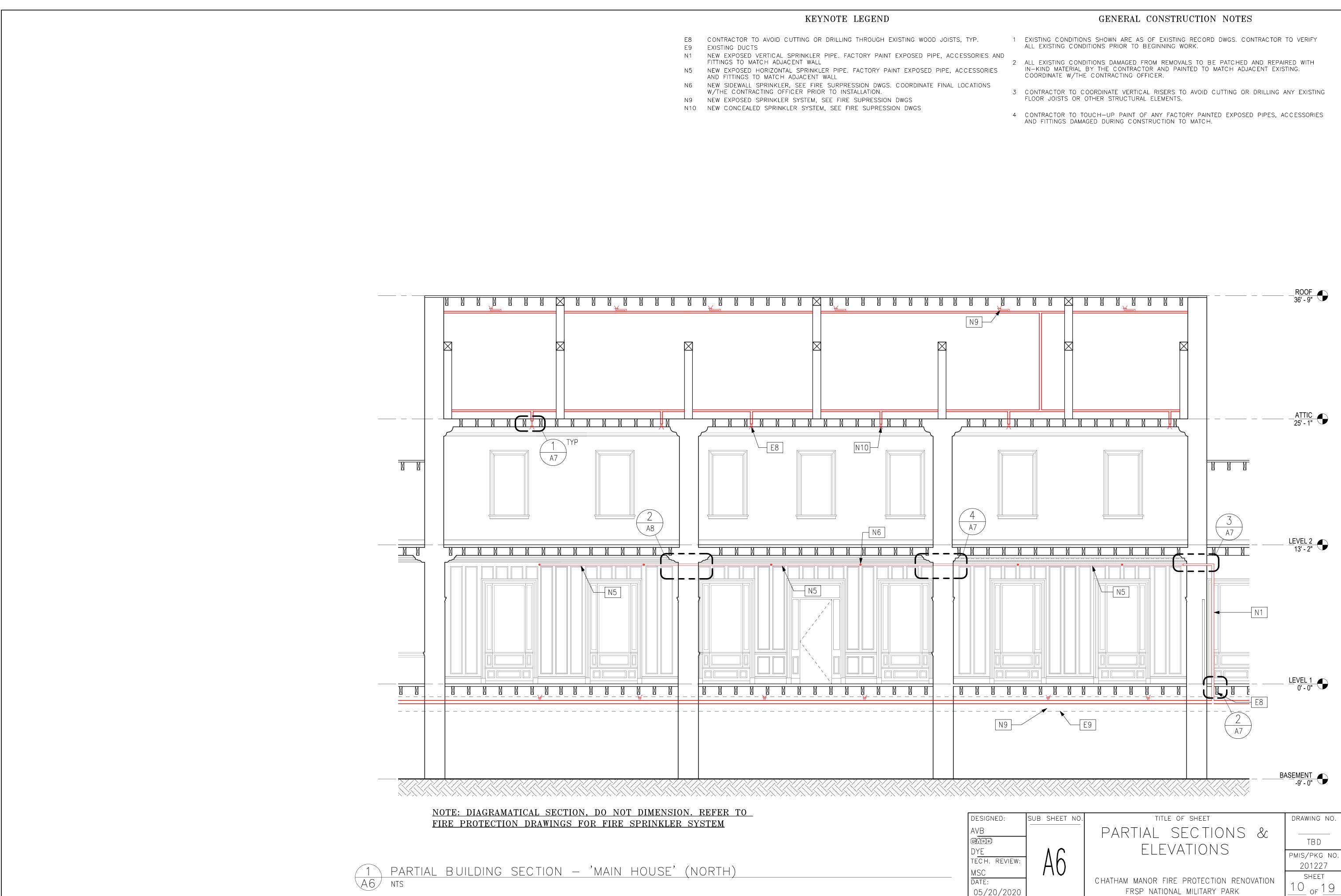
KEYNOTE LEGEND

- E2 EXISTING WOOD JOIST BELOW
- E3 EXISTING WOOD PLANK SUBFLOOR BELOW N3 NEW 2" WET-PIPE, SEE FIRE SURPRESSION DWGS
- N13 NEW 2" DRY-PIPE, SEE FIRE SURPRESSION DWGS

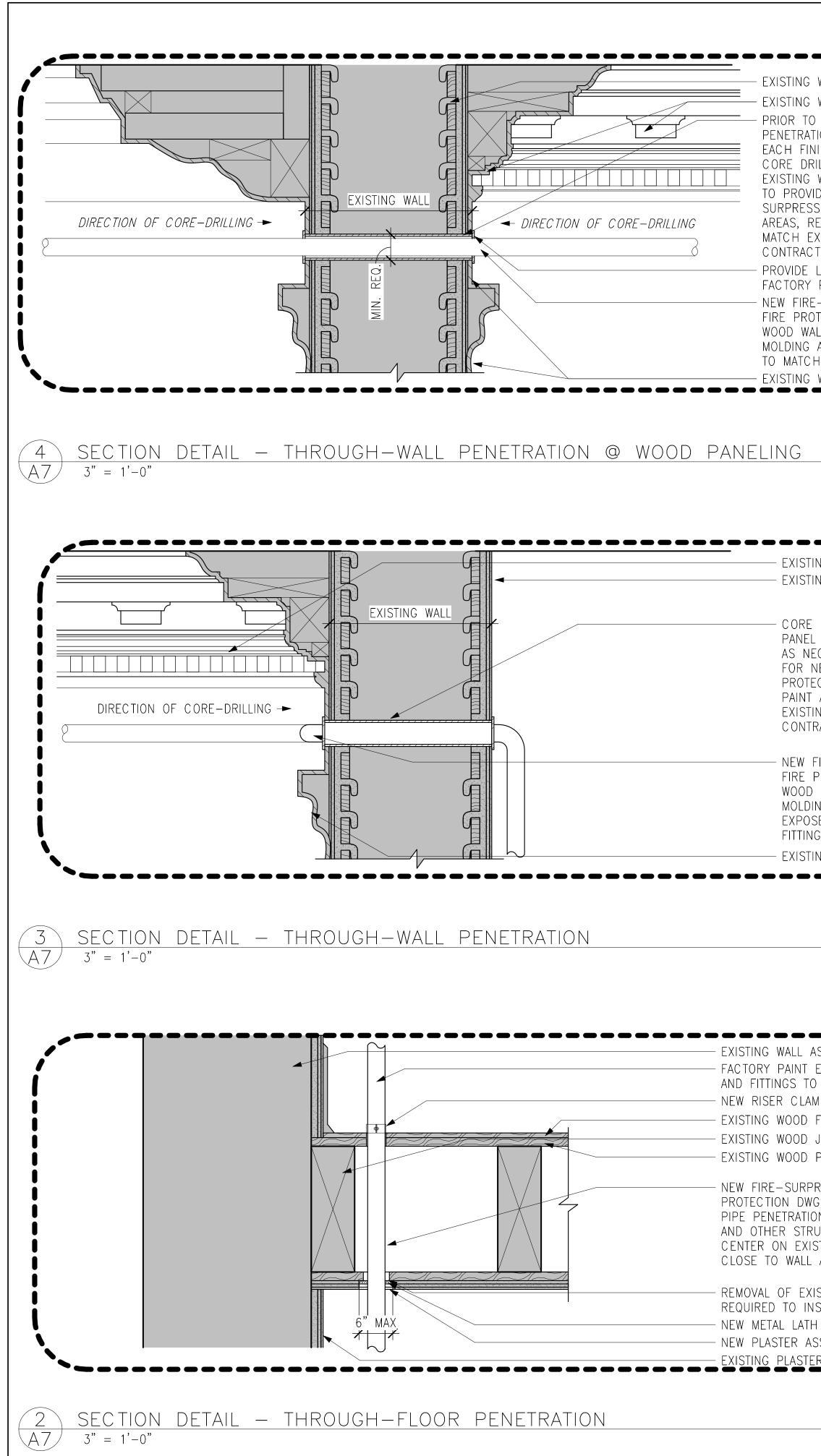
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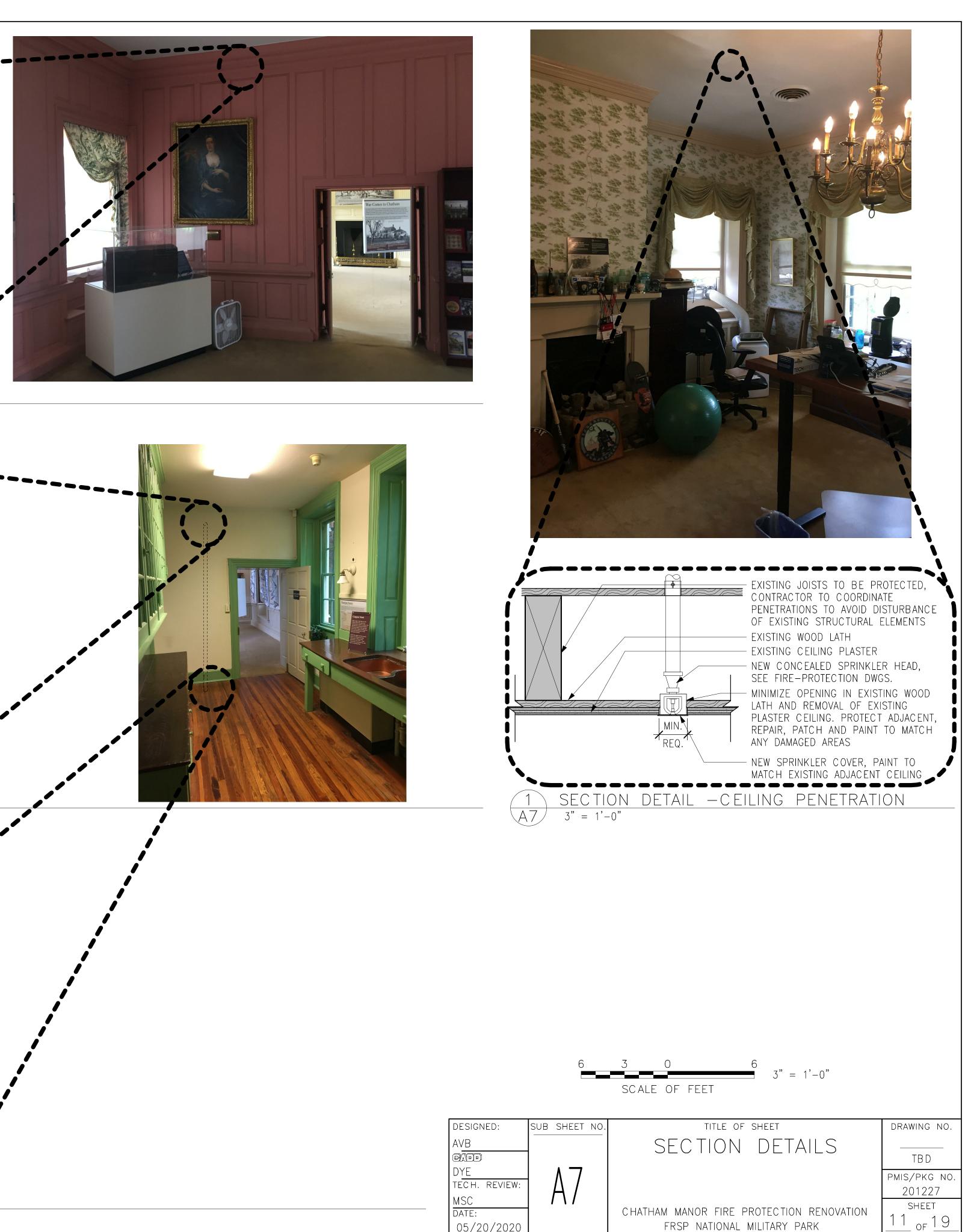
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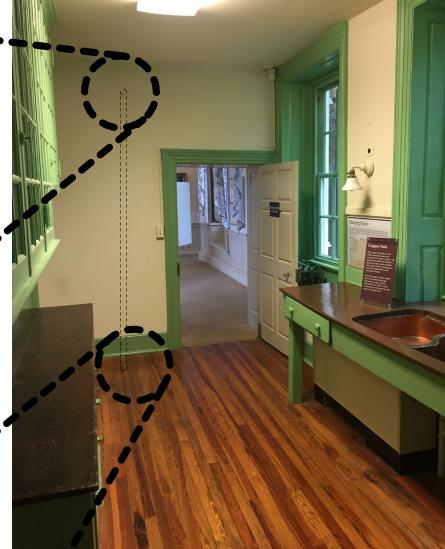
EXISTING WALL ASSEMBLY

EXISTING WOOD CROWN MOLDING PRIOR TO DRY CORE DRILLING, COORDINATE PENETRATION BY PILOT DRILLING FROM EACH FINISHED SIDE IN TO COORDINATE CORE DRILL LOCATION. CORE DRILL EXISTING WALL AS MINIMAL AS NECESSARY TO PROVIDE PIPE SLEEVE FOR NEW FIRE-SURPRESSION SYSTEM. PROTECT ADJACENT AREAS, RESTORE ANY AFFECTED AREAS TO MATCH EXISTING, COORDINATE WITH CONTRACTING OFFICER

PROVIDE LOW-PROFILE ESCUTCHEON, FACTORY PAINT TO MATCH ADJACENT WALL NEW FIRE-SURPRESSION SYSTEM, SEE FIRE PROTECTION DWGS. PENETRATE WOOD WALL PANEL BELOW CROWN MOLDING AND WOOD TRIM, FACTORY PAINT TO MATCH ADJACENT WALLS. - EXISTING WOOD PANELING AND MOLDIN

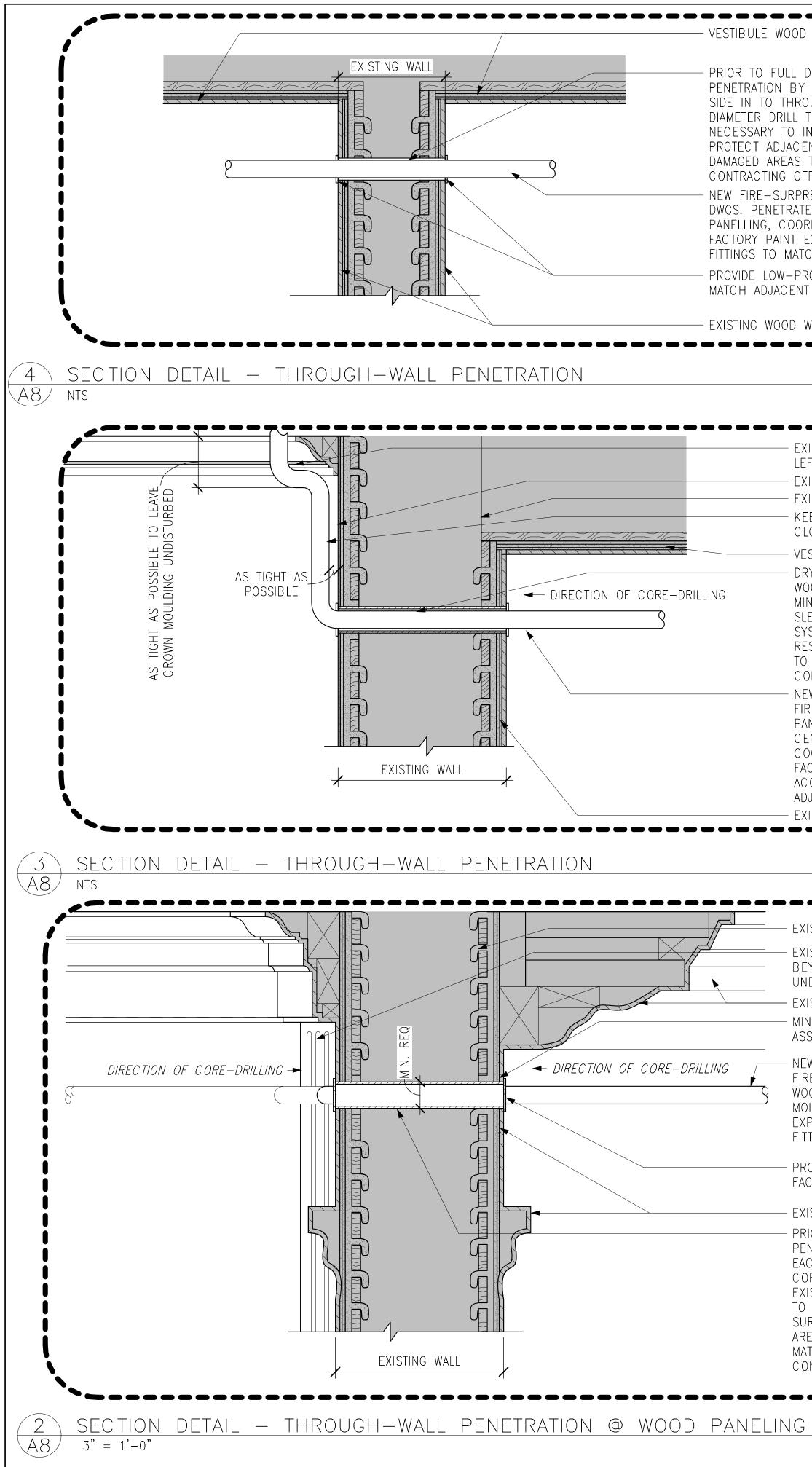


- EXISTING WOOD CROWN MOLDING - EXISTING PLASTER WALL SIDE
- CORE DRILL EXISTING WALL FROM WOOD PANEL FINISHED SIDE IN AND AS MINIMAL AS NECESSARY TO PROVIDE PIPE SLEEVE FOR NEW FIRE-SURPRESSION SYSTEM. PROTECT ADJACENT AREAS, RESTORE AND PAINT ANY AFFECTED AREAS TO MATCH EXISTING, COORDINATE WITH CONTRACTING OFFICER
- NEW FIRE-SURPRESSION SYSTEM, SEE FIRE PROTECTION DWGS. PENETRATE WOOD WALL PANEL BETWEEN CROWN MOLDING AND WOOD TRIM. FACTORY PAINT EXPOSED PIPES, ACCESSORIES AND FITTINGS TO MATCH ADJACENT WALLS.



- EXISTING WOOD PANELING AND MOLDING

- EXISTING WALL ASSEMBLY - FACTORY PAINT EXPOSED PIPE, ACCESSORIES AND FITTINGS TO MATCH ADJACENT WALL NEW RISER CLAMP, SEE FIRE PROTECTION DWGS - EXISTING WOOD FLOORING TO BE PROTECTED - EXISTING WOOD JOISTS TO BE PROTECTED, TYP - EXISTING WOOD PLANK SUB-FLOORING
- NEW FIRE-SURPRESSION SYSTEM, SEE FIRE PROTECTION DWGS. CONTRACTOR TO COORDINATE PIPE PENETRATIONS TO LEAVE EXISTING WOOD JOISTS AND OTHER STRUCTURAL ELEMENTS UNDISTURBED, CENTER ON EXISTING WOOD SUBFLOOR. LOCATE AS CLOSE TO WALL AS POSSIBLE.
- REMOVAL OF EXISTING WALL PLASTER AS MINIMAL REQUIRED TO INSTALL PIPE
- NEW PLASTER ASSEMBLY, PAINT TO MATCH ADJACENT - EXISTING PLASTER WALL ASSEMBLY



VESTIBULE WOOD PANEL CEILING ASSEMBLY

PRIOR TO FULL DIAMETER DRILLING, COORDINATE PENETRATION BY PILOT DRILLING FROM EACH FINISHED SIDE IN TO THROUGH-PENETRATION LOCATION. FULL-DIAMETER DRILL THROUGH WITH A DIAMETER AS MINIMAL AS NECESSARY TO INSTALL NEW FIRE-SURPRESSION SYSTEM. PROTECT ADJACENT AREAS, RESTORE AND PAINT ANY DAMAGED AREAS TO MATCH EXISTING, COORDINATE WITH CONTRACTING OFFICER

NEW FIRE-SURPRESSION SYSTEM, SEE FIRE PROTECTION DWGS. PENETRATE WALL CENTERED ON VERTICAL WOOD PANELLING, COORDINATE WITH CONTRACTING OFFICER. FACTORY PAINT EXPOSED PIPES, ACCESSORIES AND FITTINGS TO MATCH ADJACENT WALLS.

PROVIDE LOW-PROFILE ESCUTCHEON, FACTORY PAINT TO MATCH ADJACENT WALL

EXISTING WOOD WALL PANELING

EXISTING WOOD CROWN MOLDING TO BE LEFT UNDISTRURBED EXISTING PLASTER WALL SIDE

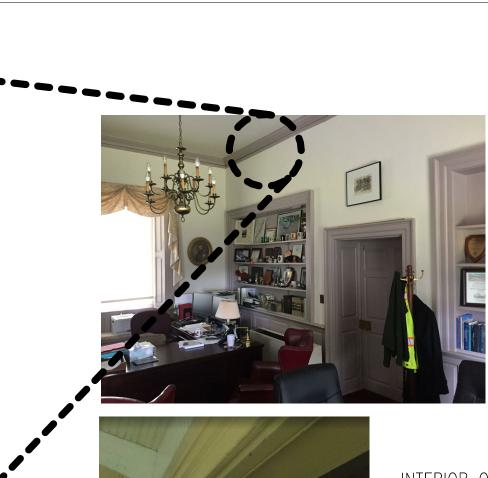
EXISTING FACE OF BRICK

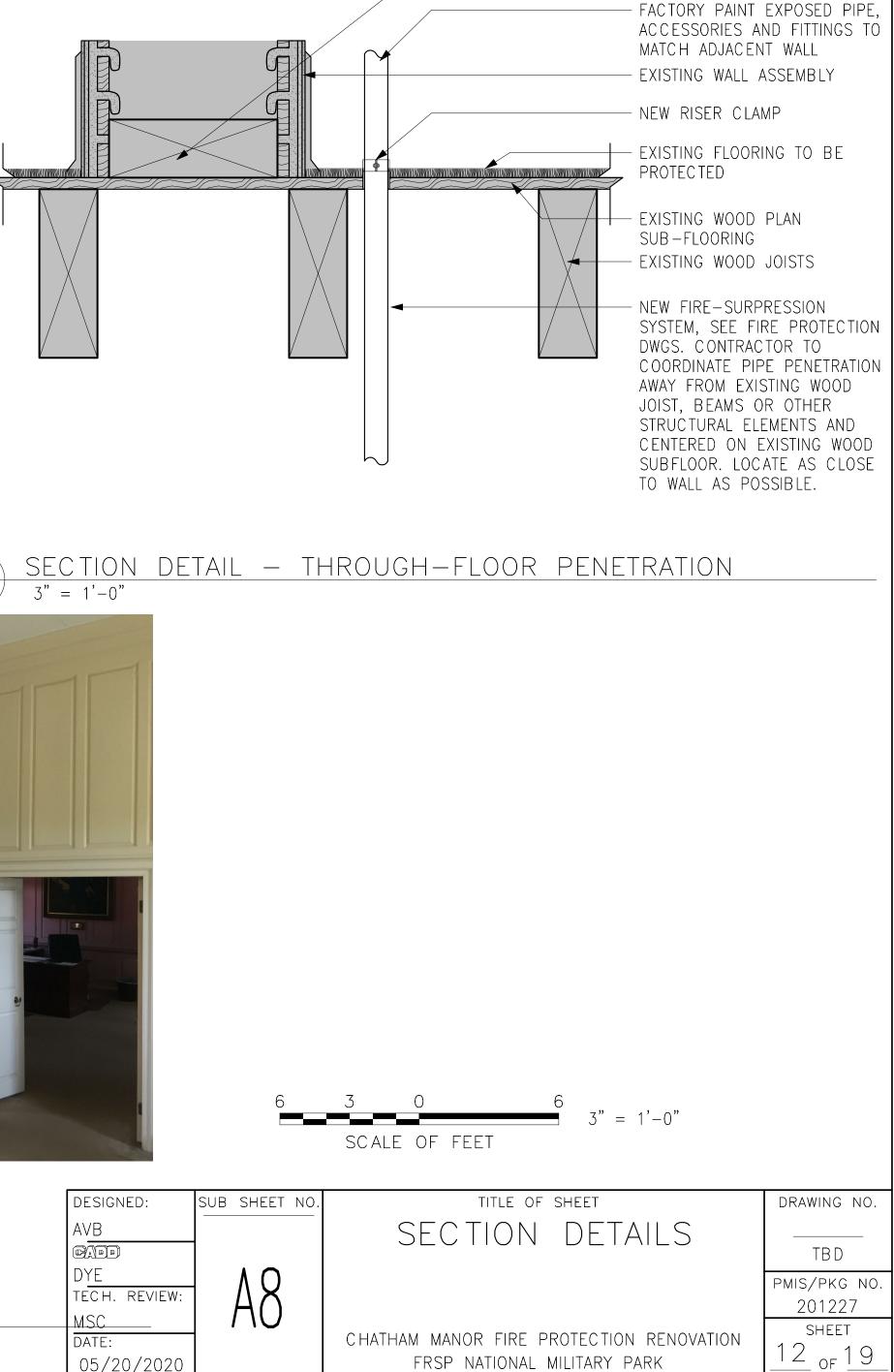
KEEP NEW FIRE-SUPPRESSION SYSTEM AS CLOSE TO THE WALL AS POSSIBLE

VESTIBULE WOOD PANEL CEILING ASSEMBLY DRY CORE DRILL EXISTING WALL FROM WOOD PANEL FINISHED SIDE IN AND AS MINIMAL AS NECESSARY TO PROVIDE PIPE SLEEVE FOR NEW FIRE-SURPRESSION SYSTEM. PROTECT ADJACENT AREAS, RESTORE AND PAINT ANY DAMAGED AREAS TO MATCH EXISTING, COORDINATE WITH CONTRACTING OFFICER

NEW FIRE-SURPRESSION SYSTEM, SEE FIRE PROTECTION DWGS. PENETRATE WALL PANEL BELOW CROWN MOLDING AND CENTERED ON VERTICAL WOOD PANELLING, COORDINATE WITH CONTRACTING OFFICER. FACTORY PAINT EXPOSED PIPES, ACCESSORIES AND FITTINGS TO MATCH ADJACENT WALLS.

- EXISTING WOOD PANELING AND MOLDING





EXISTING WALL ASSEMBLY





- EXISTING WALL ASSEMBLY

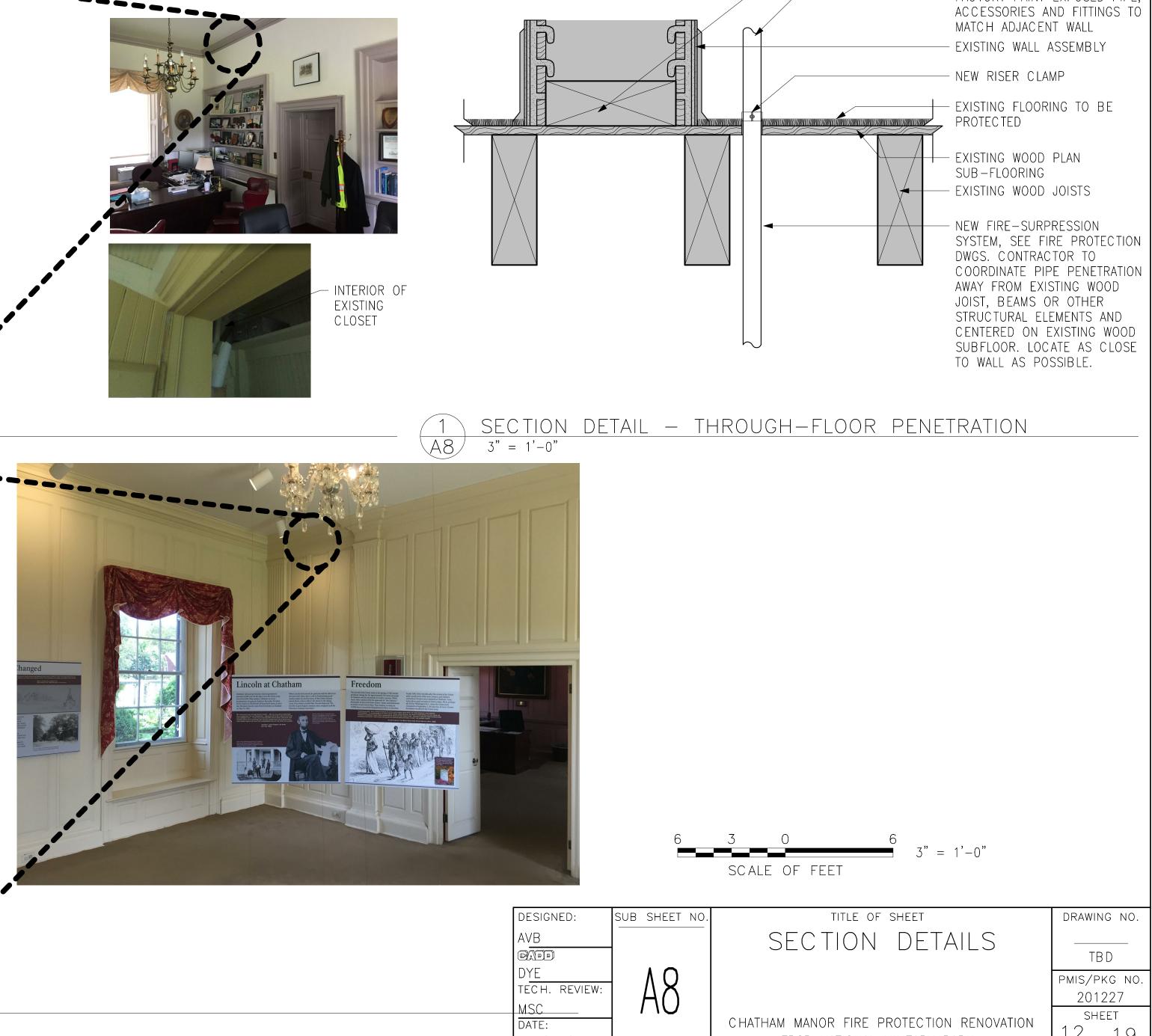
EXISTING DECORATIVE WOOD PILASTERS BEYOND. CONTRACTOR TO LEAVE UNDISTURBED

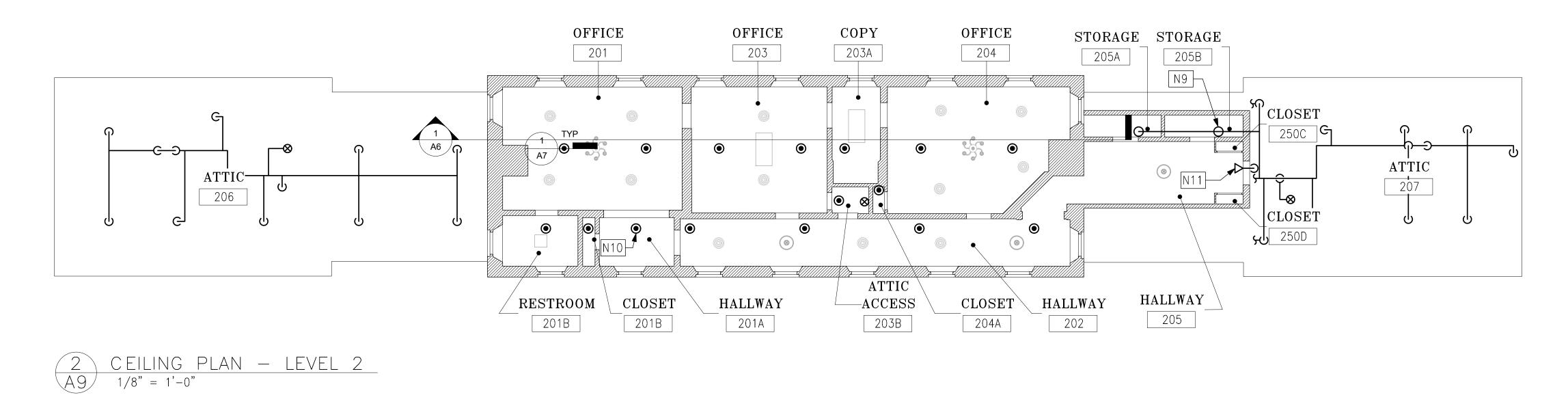
- EXISTING WOOD CROWN MOLDING MINIMUM REMOVAL OF EXISTING WALL ASSEMBLY, PROTECT ADJACENT AREAS

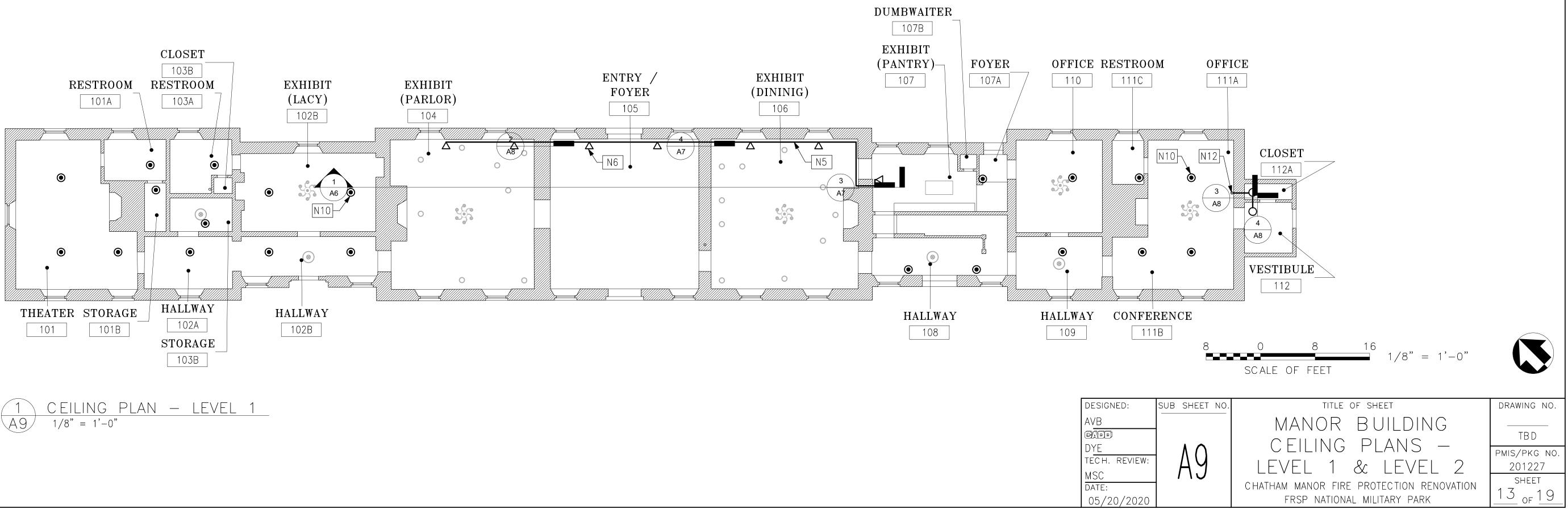
- NEW FIRE-SURPRESSION SYSTEM, SEE FIRE PROTECTION DWGS. PENETRATE WOOD WALL PANEL BELOW CROWN MOLDING AND WOOD TRIM. FACTORY PAINT EXPOSED PIPE, ACCESSORIES AND FITTINGS TO MATCH ADJACENT WALL

PROVIDE LOW-PROFILE ESCUTCHEON, FACTORY PAINT TO MATCH ADJACENT WALL

- EXISTING WOOD PANELING AND MOLDING PRIOR TO DRY CORE DRILLING, COORDINATE PENETRATION BY PILOT DRILLING FROM EACH FINISHED SIDE IN TO COORDINATE CORE DRILL LOCATION. CORE DRILL EXISTING WALL AS MINIMAL AS NECESSARY TO PROVIDE PIPE SLEEVE FOR NEW FIRE-SURPRESSION SYSTEM. PROTECT ADJACENT AREAS, RESTORE ANY AFFECTED AREAS TO MATCH EXISTING, COORDINATE WITH CONTRACTING OFFICER.







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- 3 CONTRACTOR TO COORDINATE VERTICAL RISERS TO AVOID CUTTING OR DRILLING ANY EXISTING FLOOR JOISTS OR OTHER STRUCTURAL ELEMENTS.
- 4 CONTRACTOR TO TOUCH-UP PAINT OF ANY FACTORY PAINTED EXPOSED PIPES, ACCESSORIES AND FITTINGS DAMAGED DURING CONSTRAINT TO FURTIEND
- N5 NEW EXPOSED HORIZONTAL SPRINKLER PIPE. FACTORY PAINT EXPOSED PIPE, ACCESSORIES AND FITTINGS TO MATCH ADJACENT WALL
- N6 NEW SIDEWALL SPRINKLER, SEE FIRE SURPRESSION DWGS. COORDINATE FINAL LOCATIONS W/THE CONTRACTING OFFICER PRIOR TO INSTALLATION.
- N9 NEW EXPOSED SPRINKLER SYSTEM, SEE FIRE SUPRESSION DWGS
- N10 NEW CONCEALED SPRINKLER SYSTEM, SEE FIRE SUPRESSION DWGS
- N11 NEW SIDEWALL SPRINKLER, SEE FIRE SURPRESSION DWGS N12 NEW 1.5" DRY-PIPE, SEE FIRE SURPRESSION DWGS

SPRINKLER GENERAL NOTES

- 1. SCOPE OF WORK: PROVIDE COMPLETE HYDRAULICALLY CALCULATED AUTOMATIC WET AND DRY-PIPE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. PROVIDE NITROGEN GENERATOR FOR THE DRY SYSTEM. ALL WORK AND INSTALLATION SHALL CONFORM TO THE APPLICABLE IN ACCORDANCE WITH NFPA 13 (2019 EDITION). PROVIDE ALL EQUIPMENT, LABOR AND MATERIAL FOR AN ACCEPTED AUTOMATIC SPRINKLER SYSTEM, INCLUDING WATER FLOW ALARM SWITCHES, VALVE SUPERVISORY SWITCHES, CHECK VALVES, CONTROL VALVES, PIPING, HANGERS, SPRINKLERS, AND ALL ASSOCIATED EQUIPMENT. NEW SPRINKLER SYSTEM TO BE FULLY MONITORED BY THE EXISTING FIRE ALARM SYSTEM. PROVIDE CONNECTIONS AS NECESSARY. EXISTING FIRE ALARM CONTROL PANEL IN LOCATED IN THE BASEMENT.
- 2. THE CONTRACTOR SHALL COORDINATE SPRINKLER LOCATIONS WITH ALL TRADE SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH NFPA 13 OBSTRUCTION RULES, AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, PIPES AND OTHER OBSTRUCTIONS ENCOUNTERED. THESE SPRINKLER DRAWINGS SHOW DESIGN INTENT ONLY
- 3. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS ON THE DRAWINGS PRIOR TO THE EXECUTION OF THIS CONTRACT. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED. IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE ("COR") IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- 4. REFER TO ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, AND FINISH SCHEDULED FOR CEILING HEIGHTS AND OTHER DIMENSIONS.
- ALL AREAS ARE LIGHT HAZARD UNLESS NOTED OTHERWISE.
- 6. ALL FIRE PROTECTION SYSTEM CONTROL VALVES SHALL BE INDICATING TYPE VALVES AND EQUIPPED WITH APPROVED VALVE SUPERVISORY SWITCHES. COORDINATE WITH FIRE ALARM SUBCONTRACTOR TO CONNECT SUPERVISORY (TAMPER) SWITCHES TO THE FIRE ALARM SYSTEM.
- 7. ALL EQUIPMENT SHALL BE TESTED/APPROVED BY A NATIONAL TESTING LABORATORY WHEN REQUIRED PER NFPA CODES AND THE SPECIFICATIONS, AND INSTALLED PER THE LISTING AND MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 8. INSTALL HANGERS PER NFPA 13.
- 9. PROVIDE SPRINKLER UNDER ALL OBSTRUCTIONS GREATER THAN 48" IN WIDTH AND AS NEEDED TO PROVIDE PROPER COVERAGE AS **REQUIRED PER NFPA 13.**
- 10. ALL WALL AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED. PROVIDE CLEARANCE AROUND PENETRATIONS IN ACCORDANCE WITH NFPA 13. ALL PENETRATIONS IN WALLS, CEILINGS AND FLOORS SHALL BE SEALED TO THE FULL THICKNESS OF THE PENETRATION WITH A UL LISTED FIRE STOP ASSEMBLY OF EQUAL OR GREATER FIRE RESISTANCE OF THE PENETRATED MEMBER.
- 11. CONTRACTOR SHALL MAINTAIN AS MUCH HEAD ROOM CLEARANCE AS PRACTICAL BETWEEN THE FINISHED FLOOR AND BOTTOM OF SPRINKLER PIPE, FITTINGS, VALVES, AND SPRINKLERS IN ALL AREAS WITH EXPOSED PIPE.
- 12. PIPING: ALL PIPE FOR WET AND DRY SYSTEMS SHALL BE BLACK STEEL PIPE. SCHEDULE 40. PIPE 2.5" AND LARGER SHALL BE PERMITTED TO BE BLACK STEEL PIPE, SCHEDULE 10.
- COMPRESSION TYPE / PLAIN END FITTINGS ARE NOT PERMITTED.
- 14. CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE ADEQUATE DRAINAGE OF ALL PIPING. AUXILIARY DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
- 15. FITTINGS. MECHANICAL COUPLINGS. AND RUBBER GASKETS MUST BE FROM THE SAME MANUFACTURER.
- 16. DO NOT ROUTE SPRINKLER SYSTEM PIPING OVER ELECTRICAL PANELS OR TELECOM EQUIPMENTS.
- 16. TEMPERATURE RATING FOR SPRINKLERS NEAR HEATERS AND OTHER HEAT SOURCES SHALL BE PER NFPA 13.
- 17. FLOW TEST DATA:

WATER FLOW TEST DATED: 6/20/18 4:30 CONDUCTED BY: DAVID ESCALANTE, PE, AND HUY THAI - RHINO FIRE PROTECTION ENGINEERING, PLLC WITNESSED BY: NATIONAL PARK SERVICES, CHATHAM MANOR LOCATION: CHATHAM MANOR DR. AND PRATT ST. STATIC PRESSURE: 109 PSI. **RESIDUAL PRESSURE: 55 PSI.** FLOW: 755 GPM

- 18. CONTRACTOR TO CONDUCT NEW FLOW TEST AND SUBMIT NEW HYDRAULIC CALCULATIONS WITH SHOP DRAWINGS. THE CALCULATIONS SHALL PROVE THAT THE EXISTING WATER SUPPLY IS ADEQUATE TO SUPPLY THE NEWLY RENOVATED SYSTEM.
- 19. THE HYDRAULIC CALCULATIONS SHALL INCLUDE A MINIMUM SAFETY FACTOR OF 5 PSI OR 10 PERCENT, WHICHEVER IS GREATER. PIPE SIZE SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS TO MAINTAIN WATER VELOCITY BELOW 20 FEET/SEC.
- 20. CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS SHOWING ALL SPRINKLERS, SPACED AND LOCATED IN ACCORDANCE WITH NFPA 13. THE SHOP DRAWINGS SHALL BE APPROVED IN WRITING PRIOR TO FABRICATION AND/OR INSTALLATION.
- 21. THE CONTRACTOR SHALL SUBMIT ELECTRONIC AND PAPER COPIES OF THE "AS-BUILT" DRAWINGS, REFLECTING ACCURATE FIELD CONDITIONS.
- 22. DUE TO THE NATURE OF THE FACILITY, THE BUILDING AND ALL ASSOCIATED FUNCTIONS THEREOF WILL REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION AND DEMOLITION PERIOD. ANY INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICE SHALL OCCUR ONCE WRITTEN APPROVAL HAS BEEN RECEIVED FROM OWNER.
- 23. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF JOB SAFETY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 24. ALL MATERIAL AND LABOR SHALL BE UNDER WARRANTY IN ACCORDANCE WITH THE SPECIFICATIONS. ANY NEW DEVICES OR EQUIPMENT FOUND FAULTY SHALL BE REPLACED AS PART OF THE WARRANTY.

LEGEND

	•	UPRIGHT BACK TO BACK DUAL DIRECTION ATTIC SPRINKLER, K-FACTOR 5.6, INTERMEDIATE TEMPERATURE.	A ABV	AMP ABOVE	MECH MI	MECHANICAL ROOM MINERAL INSULATED
		UPRIGHT ATTIC PLUS SPRINKLER, K-FACTOR 5.6,	A/E	ARCHITECT/ENGINEER (OF RECORD)	MNS	MASS NOTIFICATION SYSTEM
	\bigcirc	INTERMEDIATE TEMPERATURE.	ANSI	AMERICAN NATIONAL	MPS	MANUAL PULL STATION
			A.(C)		NAC	NOTIFICATION APPLIANCE CIRCUIT
	۲	DRY CONCEALED PENDENT SPRINKLER	A/S AWG	AUTOMATIC SPRINKLER AMERICAN WIRE GAGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
			BLDG	BUILDING	NO.	NUMBER
	⊲ EX	EXTENDED COVERAGE HORIZONTAL SIDEWALL SPRINKLER,	BOB	BOTTOM OF BEAM	NOS.	NUMBERS
	LX	K-FACTOR 8.0	BOJ	BOTTOM OF JOIST	NPT	NATIONAL PIPE THREAD
	0	UPRIGHT SPRINKLER	С	CEILING	NTS	NOT TO SCALE
	\bigcirc		CLO	CLOSET	OPG	OPENING
	\boxtimes	UPRIGHT SPRINKLER WITH GUARD	CMU	CONCRETE MASONRY UNIT	OS&Y	OUTSIDE STEM AND YOKE
			COM	COMMUNICATIONS	P	PHASE
	\bullet	PENDENT SPRINKLER	CONT CORR	CONTINUED CORRIDOR	P.S. PSI	PIPE SHAFT POUNDS PER SQUARE INCH
			DS	DRY SPRINKLER	QR	QUICK RESPONSE
	< <u>xxx</u> >	HYDRAULIC SINGLE NODE	E	EXISTING DEVICE	RM	ROOM
		HYDRAULIC CALCULATION AREA	EC	EXTENDED COVERAGE SPRINKLER	SPKLR	SPRINKLER
			ELEC	ELECTRIC	SSU	STANDARD SPRAY UPRIGHT
-		90 ELBOW	ELOR	END OF LINE RESISTOR	STDP	STANDPIPE
			EXIST	EXISTING	SF	SQUARE FOOT
-		TEE DOWN	FACP FDC	FIRE ALARM CONTROL PANEL	SPD	SURGE PROTECTION DEVICE
	_		GPM	FIRE DEPARTMENT CONNECTION GALLONS PER MINUTE	STO TC	STORAGE TERMINAL CABINET
-		CAP	IN	INCH	TOJ	TOP OF JOIST
	(PIPE CONTINUATION	J.C.	JANITOR'S CLOSET	UNO	UNLESS NOTED OTHERWISE
)	FIFE CONTINUATION	LAT	LAY-IN ACOUSTICAL TILE	VAC	VOLTS ALTERNATING CURRENT
		BUTTERFLY VALVE	LED	LIGHT EMITTING DIODE	WP	WEATHER PROOF
	+ +		MACH	MACHINE	W/	WITH
		BACKFLOW PREVENTER				
	→ →					
	ZCA	ZONE CONTROL ASSEMBLY				
	\bigotimes	DRY PIPE VALVE				
	q	FIRE DEPARTMENT CONNECTION				
		BACKFLOW TEST HEADER				
-		NEW SPRINKLER / PIPE				
-		UNDERGROUND NEW SPRINKLER / PIPE				

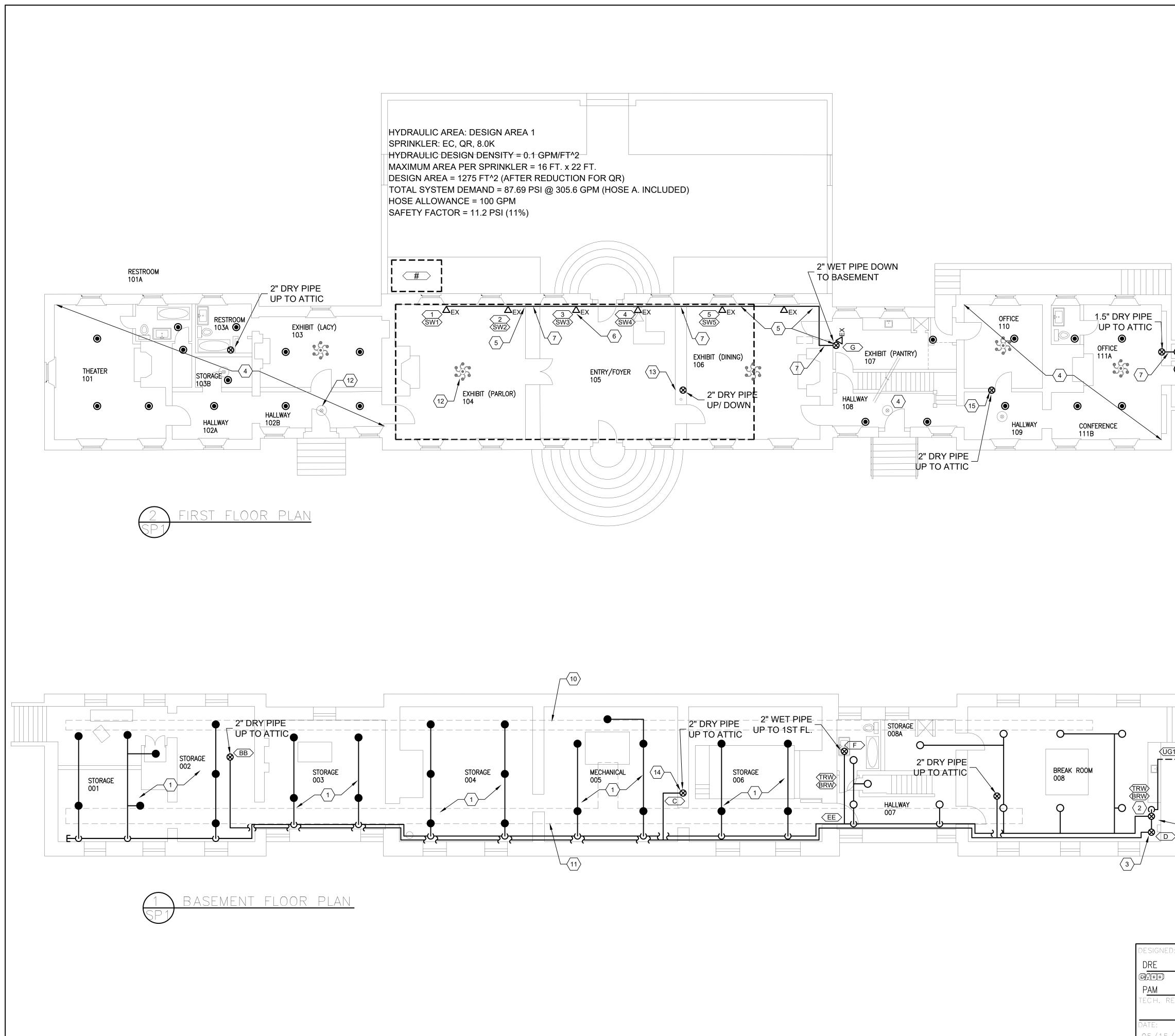
DESIGN DENSITIES

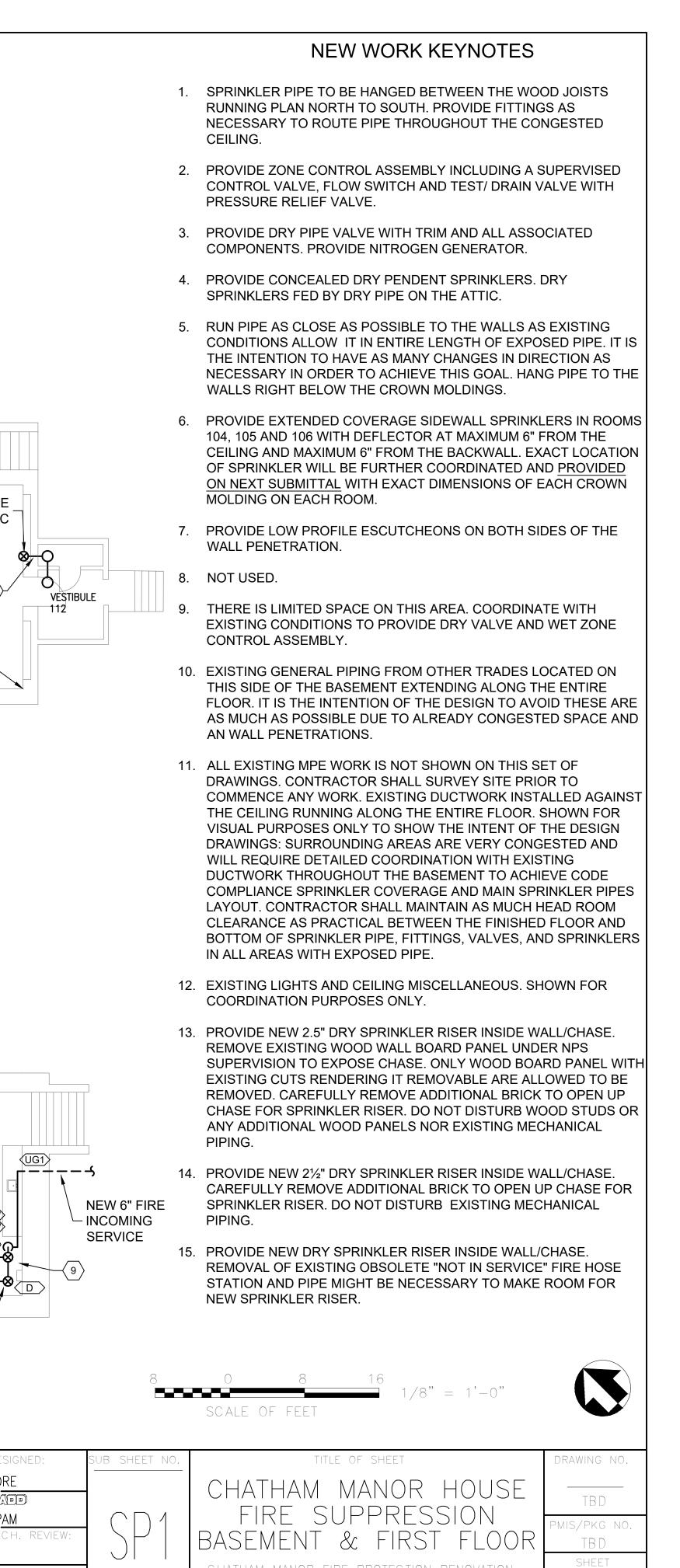
OCCUPANCY	DENSITY (GPM/SQ.FT)	AREA (SQ.FT)	HOSE ALLOWANCE (GPM)
LIGHT HAZARD	0.10	1500	100
ORDINARY HAZARD GROUP 1	0.15	1500	250
ORDINARY HAZARD GROUP 2	0.20	1500	250

DESIGN
DRE
PAM
TECH.
DATE:
05/1

ABBREVIATIONS



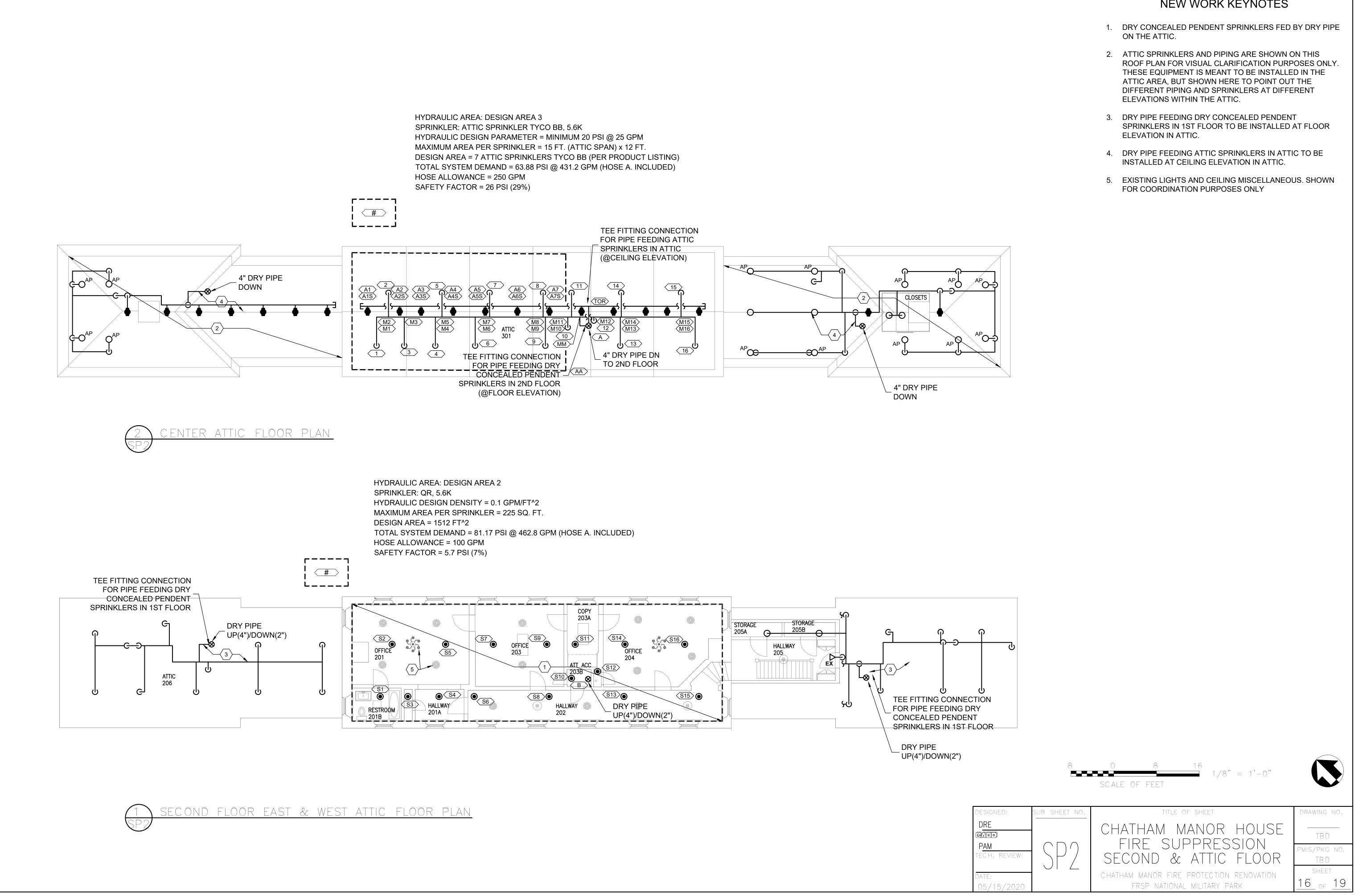




CHATHAM MANOR FIRE PROTECTION RENOVATION

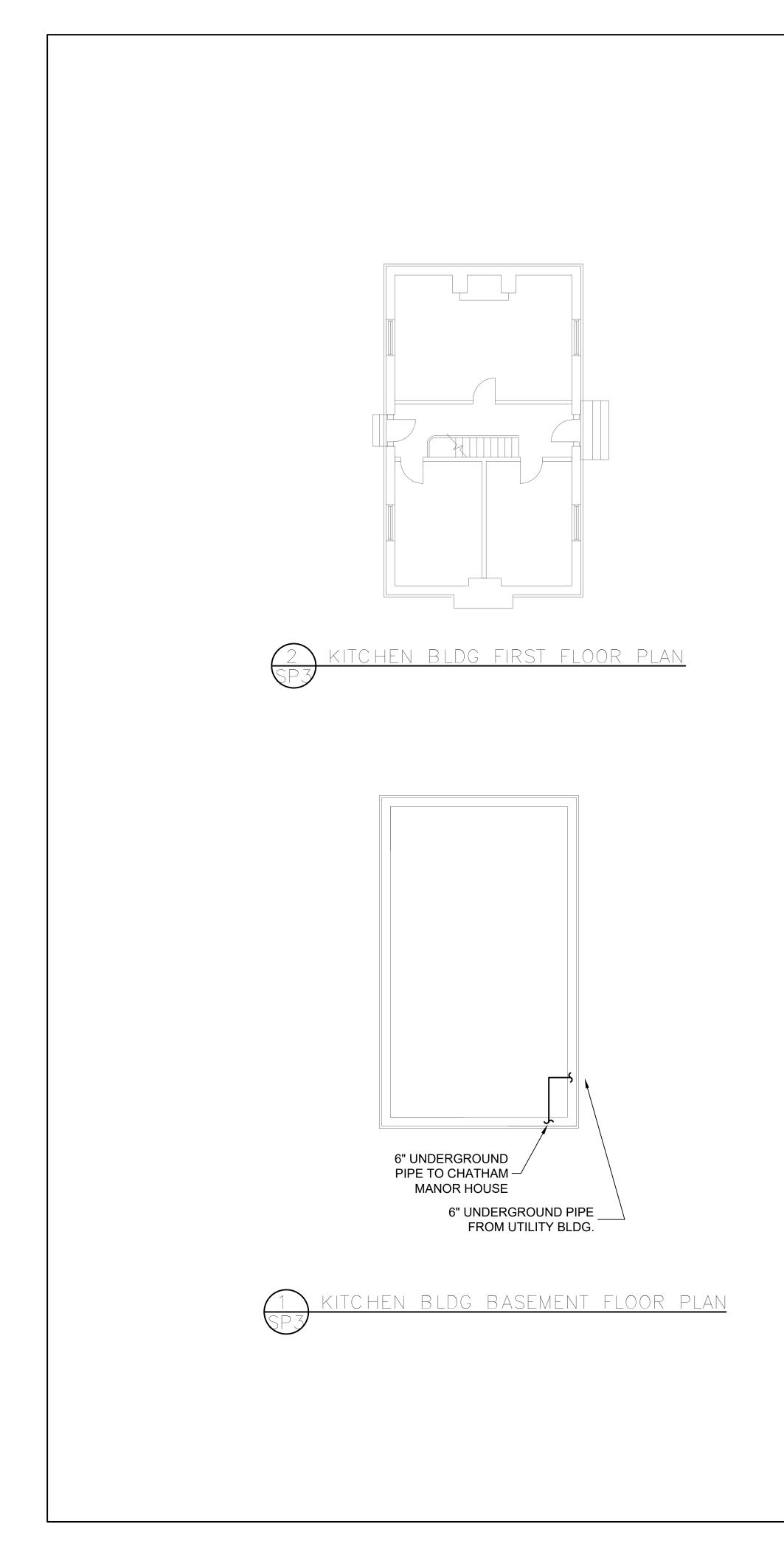
FRSP NATIONAL MILITARY PARK

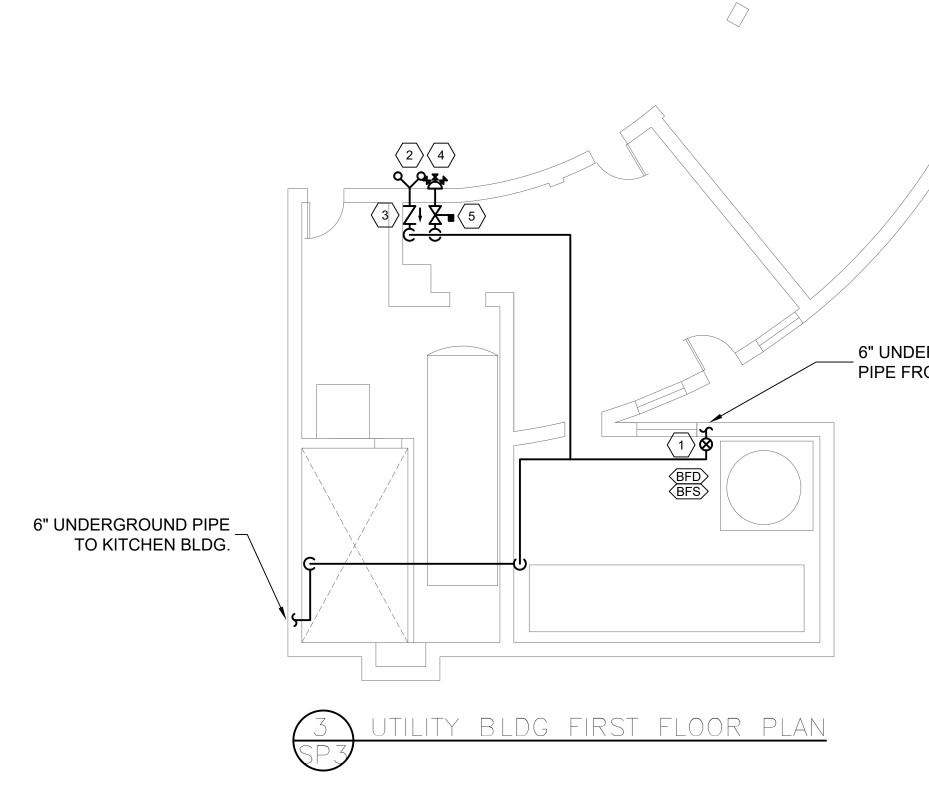
15 _{of} 19



NEW WORK KEYNOTES

8		0	16	1/8" = 1'-0"	
SC	CALE OF F			/	



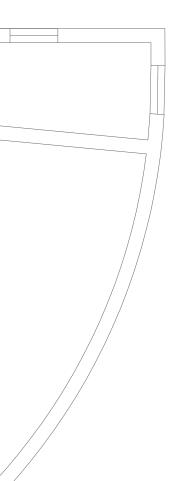




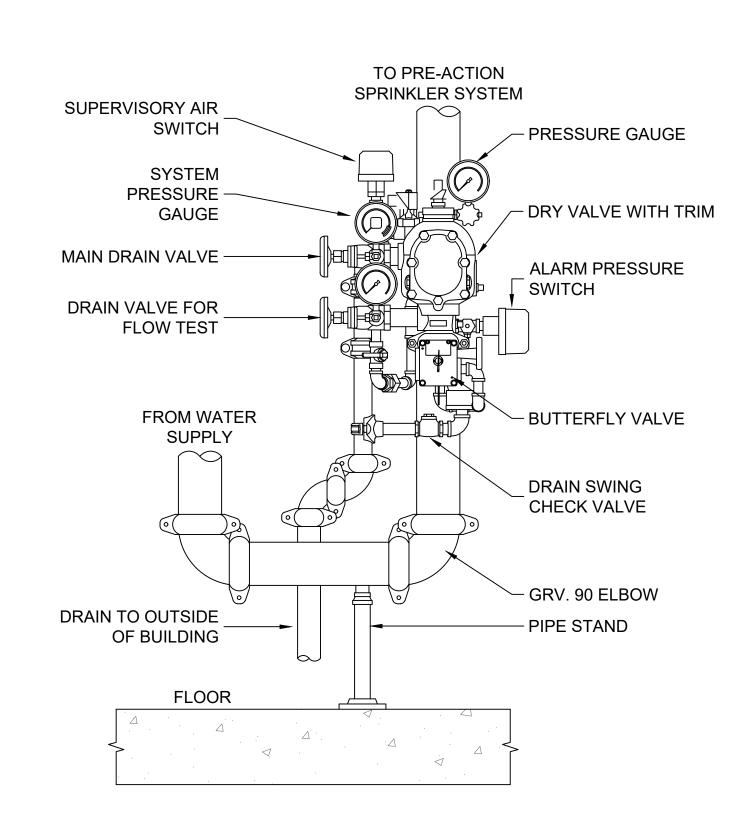
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NEW WORK KEYNOTES

- 1. PROVIDE NEW 6" VERTICAL BACKFLOW PREVENTER ASSEMBLY.
- PROVIDE 4" X 2¹/₂" (2) FIRE DEPARTMENT CONNECTION (FDC). PROVIDE SIGN SPECIFIC TO FDC RIGHT ABOVE FDC.
- 3. PROVIDE 4" CHECK VALVE.
- 4. PROVIDE 4" X 2½" (2) BACKFLOW TEST HEADER. PROVIDE SIGN SPECIFIC TO TEST HEADER RIGHT ABOVE IT.
- 5. PROVIDE 4" SUPERVISED BUTTERFLY VALVE IN NORMALLY CLOSED POSITION

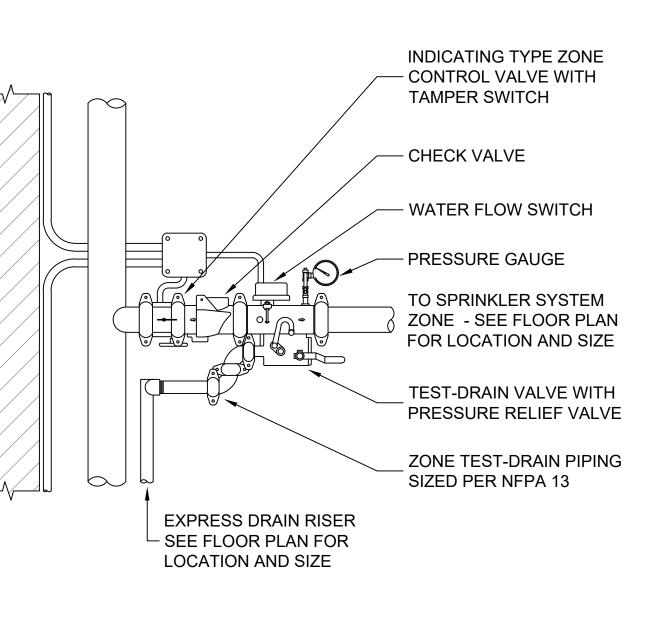


_ 6" UNDERGROUND PIPE FROM HYDRANT



DRY PIPE VALVE

SCALE: N.T.S

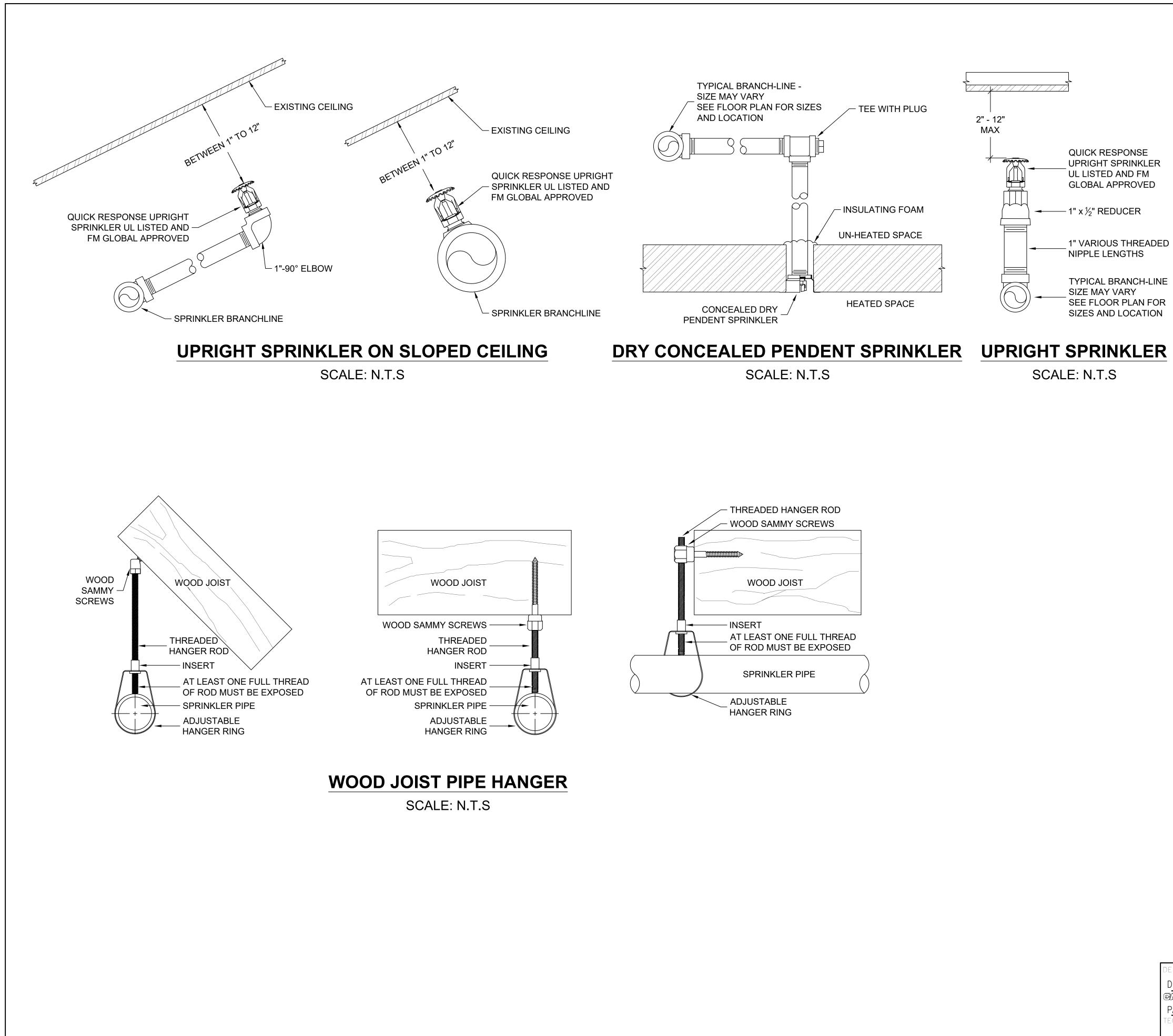


ZONE CONTROL ASSEMBLY

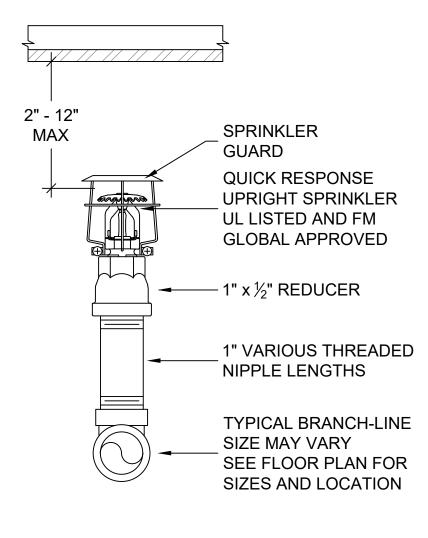
SCALE: N.T.S



NED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
). REVIEW:	SP4	CHATHAM MANOR HOUSE FIRE SUPPRESSION RISER DETIALS	TBD pmis/pkg no. TBD
15/2020		CHATHAM MANOR FIRE PROTECTION RENOVATION FRSP NATIONAL MILITARY PARK	sheet <u>18</u> of <u>19</u>



DRE PAM



UPRIGHT SPRINKLER WITH GUARD

SCALE: N.T.S

