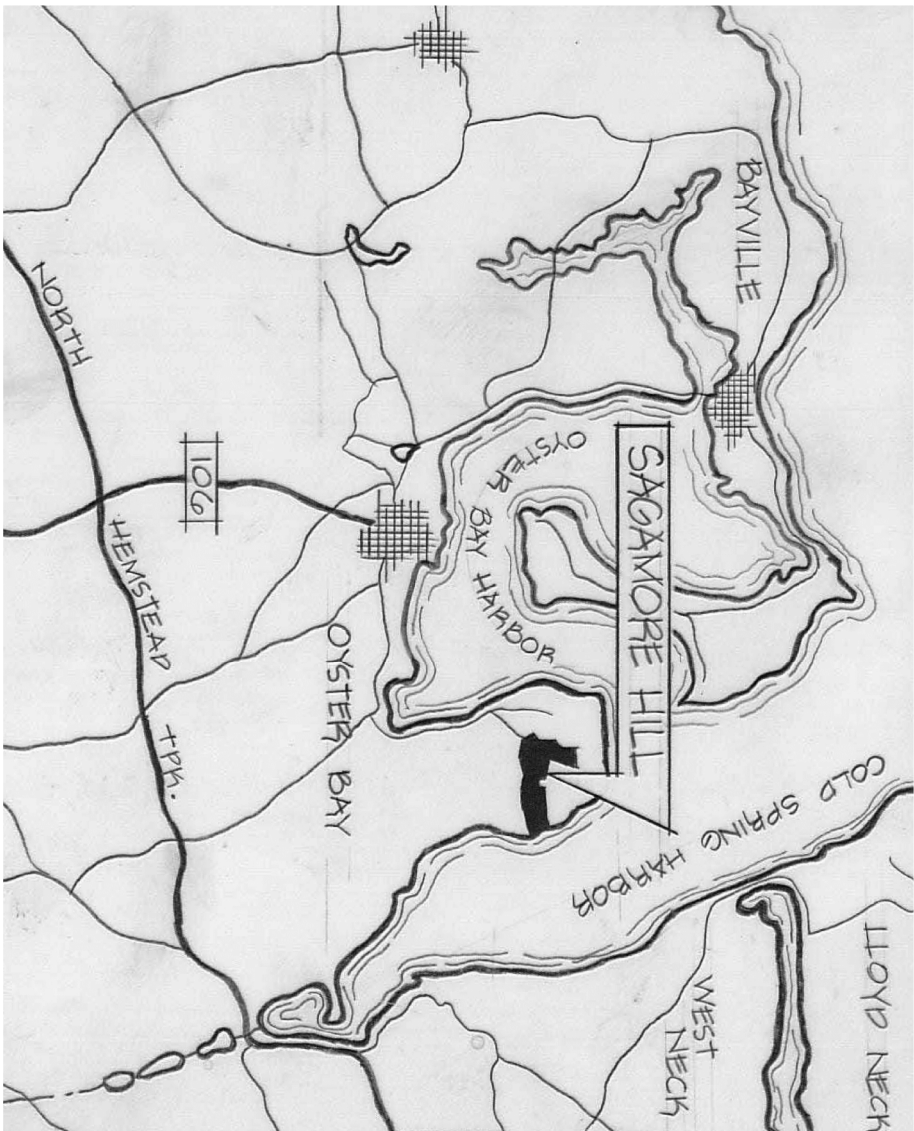


LOCATION PLAN



VICINITY PLAN

ARCHITECT
JOHN G. WAITE ASSOCIATES, ARCHITECTS PLLC
ALBANY AND NEW YORK, NY


MECHANICAL, ELECTRICAL & PLUMBING ENGINEERING
PLUS GROUP CONSULTING ENGINEERS, PLLC
NEW YORK, NY

CIVIL & FIRE PROTECTION ENGINEERING
MACTEC ENGINEERING & CONSULTING, INC.
PORTLAND, ME

SHEETNUMBER TITLE OF SHEET

1	T-1	COVER SHEET
2	L1.0	OVERALL SITE PLAN
3	L1.1	DETAILED SITE PLAN
4	A1.0	BASEMENT PLAN
5	A1.1	FIRST FLOOR PLAN
6	A1.2	SECOND FLOOR PLAN
7	A1.3	THIRD FLOOR PLAN
8	A1.4	ATTIC PLAN
9	A1.5	ROOF PLAN
10	A2.0	NORTH ELEVATION
11	A2.1	EAST ELEVATION
12	A2.2	SOUTH ELEVATION
13	A2.3	WEST ELEVATION
14	A3.0	ACCESSIBLE ENTRANCE NORTHWEST PORCH
15	FP1.0	FIRE PROTECTION – BASEMENT
16	FP1.1	FIRE PROTECTION – FIRST FLOOR
17	FP1.2	FIRE PROTECTION – SECOND FLOOR
18	FP1.3	FIRE PROTECTION – THIRD FLOOR
19	FP1.4	FIRE PROTECTION – ATTIC
20	MO.1	MECHANICAL – SYMBOLS, NOTES, SCHEDULES & ABBREVIATIONS
21	M1.0	MECHANICAL – BASEMENT PLAN
22	M2.1	MECHANICAL – SPECIFICATIONS
23	M3.1	MECHANICAL – DETAILS
24	M3.2	MECHANICAL – SYMBOLS & ABBREVIATIONS
25	EO.1	ELECTRICAL – GENERAL NOTES
26	EO.2	ELECTRICAL – BASEMENT PLAN
27	E1.0	ELECTRICAL – POWER RISER DIAGRAM
28	E3.0	ELECTRICAL – SCHEDULES
29	E4.0	ELECTRICAL – SCHEDULES

PMIS NO. 077375

Work Sheet	REVISION	Date	Initial	QUALITY DESIGN CERTIFICATION			PREFERRED ALTERNATIVE SCHEMATIC DESIGN		TITLE OF PROJECT		DRAWING NO.	
				<input type="checkbox"/>	Prepared in Accordance with Design Development (Title I) Drawing No. _____		<input type="checkbox"/>	UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE DENVER SERVICE CENTER	Sagamore Hill National Historic Site Theodore Roosevelt House	SAGAMORE HILL NATIONAL HISTORIC SITE REGION: NORTHEAST COUNTY: MASSAU STATE: NEW YORK	PG. NO. 25004	SHEET 1 OF 29
				<input type="checkbox"/>	Variance from Design Development (Title I) Approved by Superintendent on _____ Date _____							
				<input type="checkbox"/>	Construction Drawing Not Preceded by Design Development (Title I)							
					Project Manager _____ Date _____							

NOTES:

1. ALL UNDERGROUND UTILITY LOCATIONS ARE ASSUMED. SURVEY REQUIRED TO CONFIRM EXACT CONDITIONS.
2. ARCHAEOLOGICAL PLANNING, TESTING AND MONITORING REQUIRED WITH ALL SUB-SURFACE EXCAVATION (SEPARATE FUNDING).
3. ELECTRICAL SERVICE UPGRADE TO TRANSFORMER AND/OR INCOMING UNDERGROUND SERVICE WILL BE REQUIRED (SEPARATE FUNDING).
4. LOCATION/SIZE FOR NEW EMERGENCY/STANDBY GENERATOR TO BE DETERMINED (SEPARATE FUNDING).
5. UPGRADES REQUIRED TO EXISTING SITE LIGHTING FOR SECURITY (SEPARATE FUNDING).
6. LANDSCAPE IMPROVEMENTS TO PROVIDE ACCESSIBLE ROUTE FROM VISITOR PARKING TO THEODORE ROOSEVELT HOME REQUIRED (SEPARATE FUNDING).

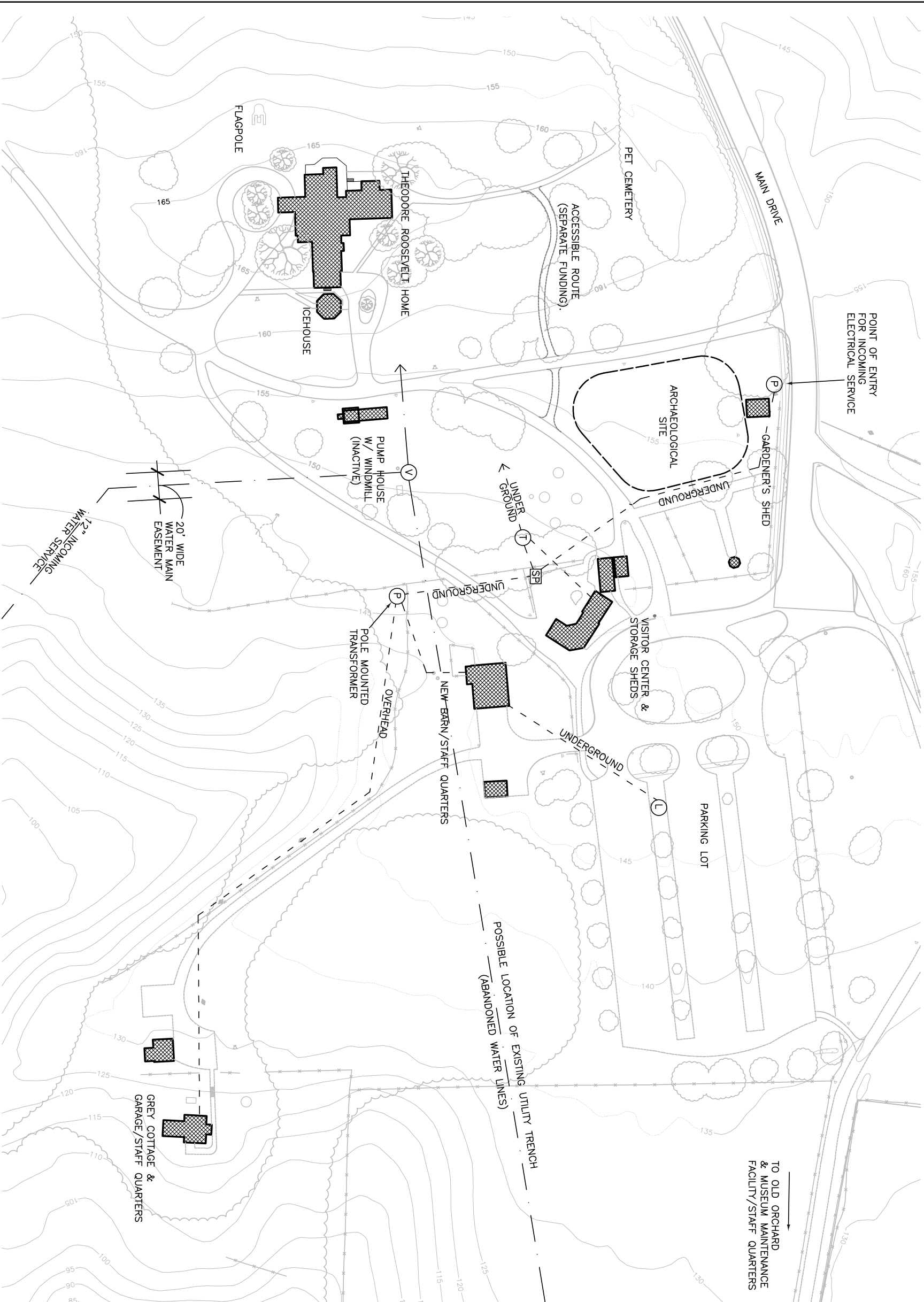
LEGEND: EXISTING UTILITIES

- · — : WATER LINE
- - - : ELECTRICAL LINE
- · - : UTILITY TRENCH
- (P) - POWER POLE
- (T) - TRANSFORMER VAULT
- (V) - WATER VALVE
- (L) - SITE LIGHTING
- (SP) - SPLICE BOX

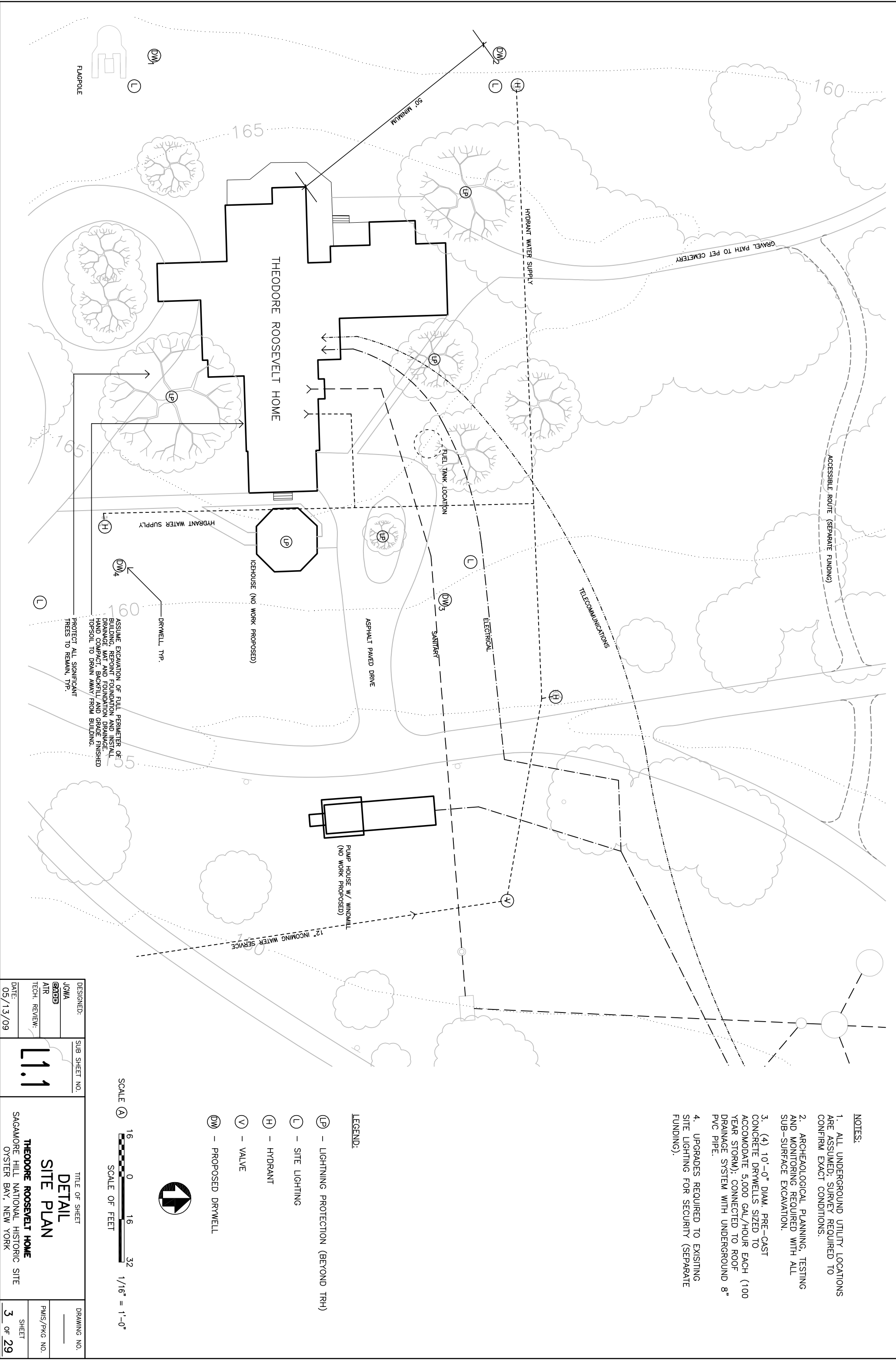


SCALE ① 50 0 50 100 1" = 50'

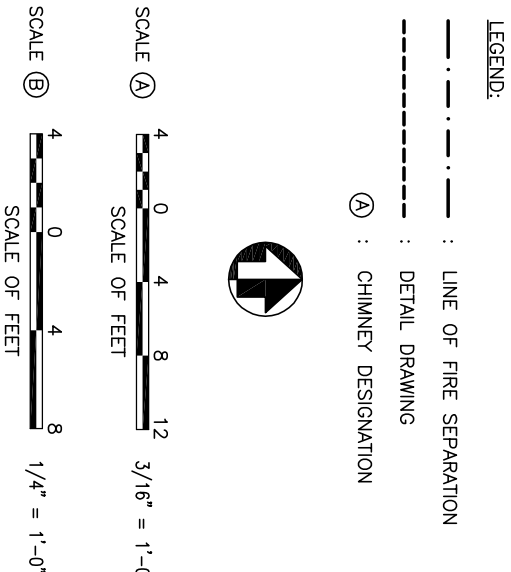
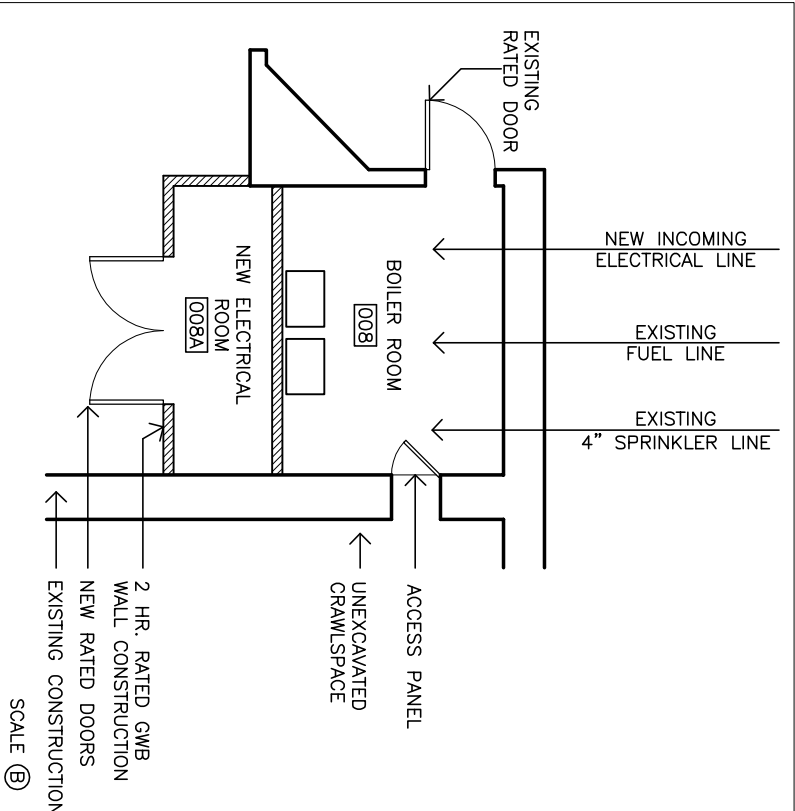
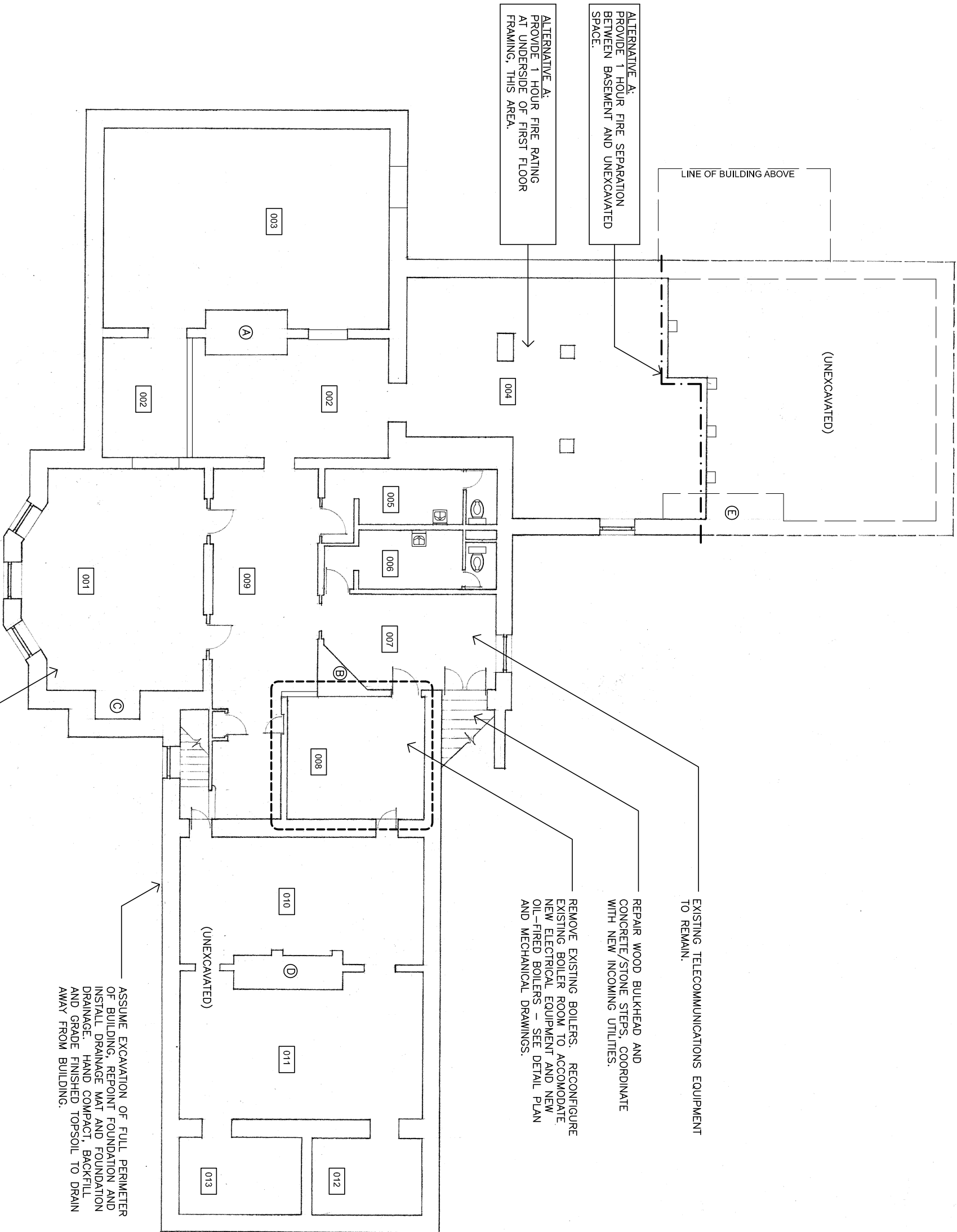
SCALE OF FEET



DESIGNED: JGWA ②ABD	SUB SHEET NO.	TITLE OF SHEET DRAWING NO.
ATR	11.0	OVERALL SITE PLAN THEODORE ROOSEVELT HOUSE SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK
TECH. REVIEW: MAR		
DATE: 05/13/09		
SHEET 2 OF 29		PMIS/PKG NO.

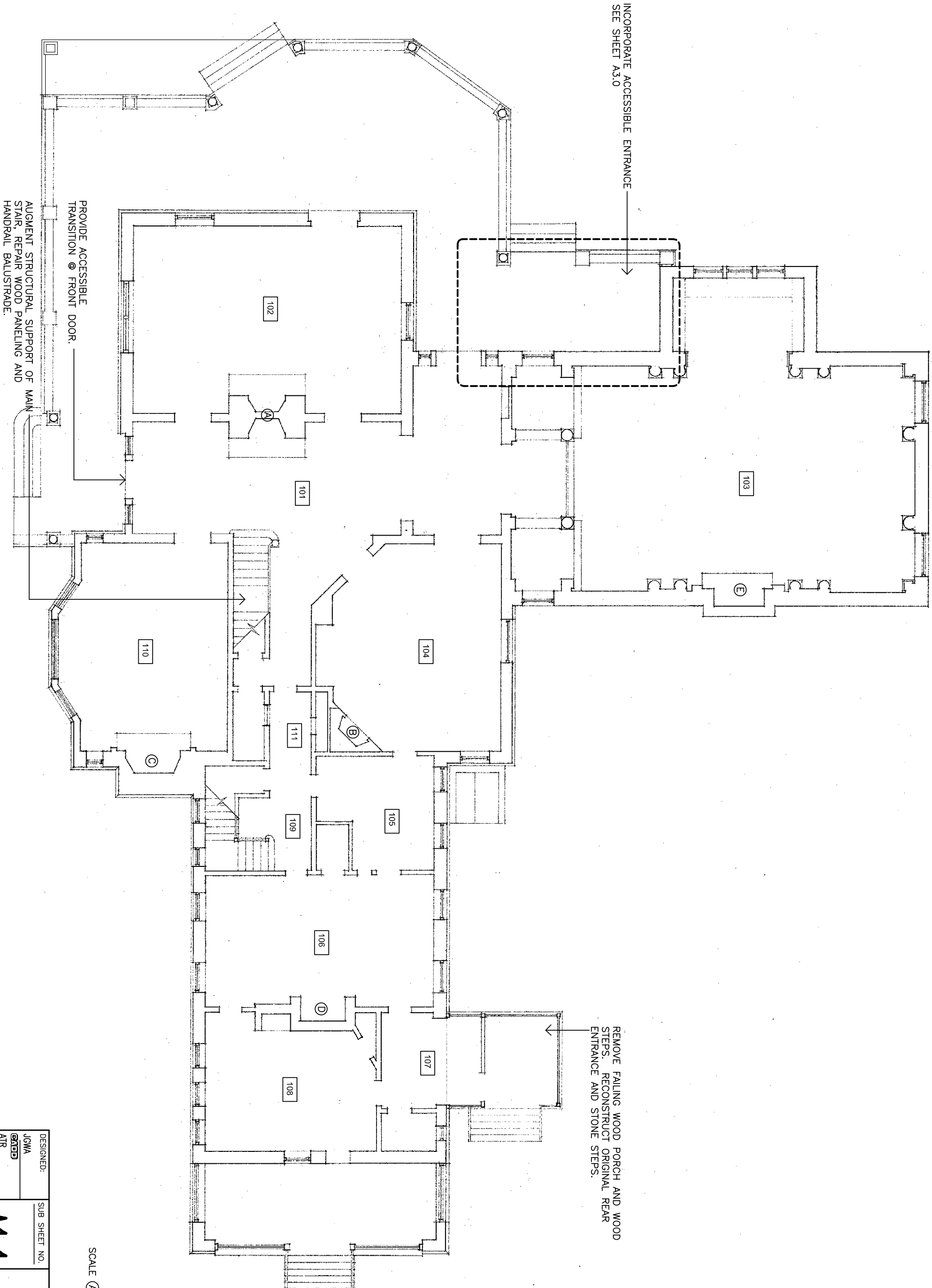


NOTES:
1. SEE EXTERIOR ELEVATIONS FOR WORK TO BUILDING ENVELOPE ABOVE GRADE.



DESIGNED: JGWA	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
ATRB		BASEMENT PLAN	
ATR			
TECH. REVIEW:			
DATE: 05/13/09		THEODORE ROOSEVELT HOME	SHEET
		SAGAMORE HILL NATIONAL HISTORIC SITE	4 OF 29
		OYSTER BAY, NEW YORK	

NOTES:
1. SEE EXTERIOR ELEVATIONS FOR WORK TO BUILDING ENVELOPE ABOVE GRADE.



SCALE (A) 3/16" = 1'-0"
SCALE OF FEET



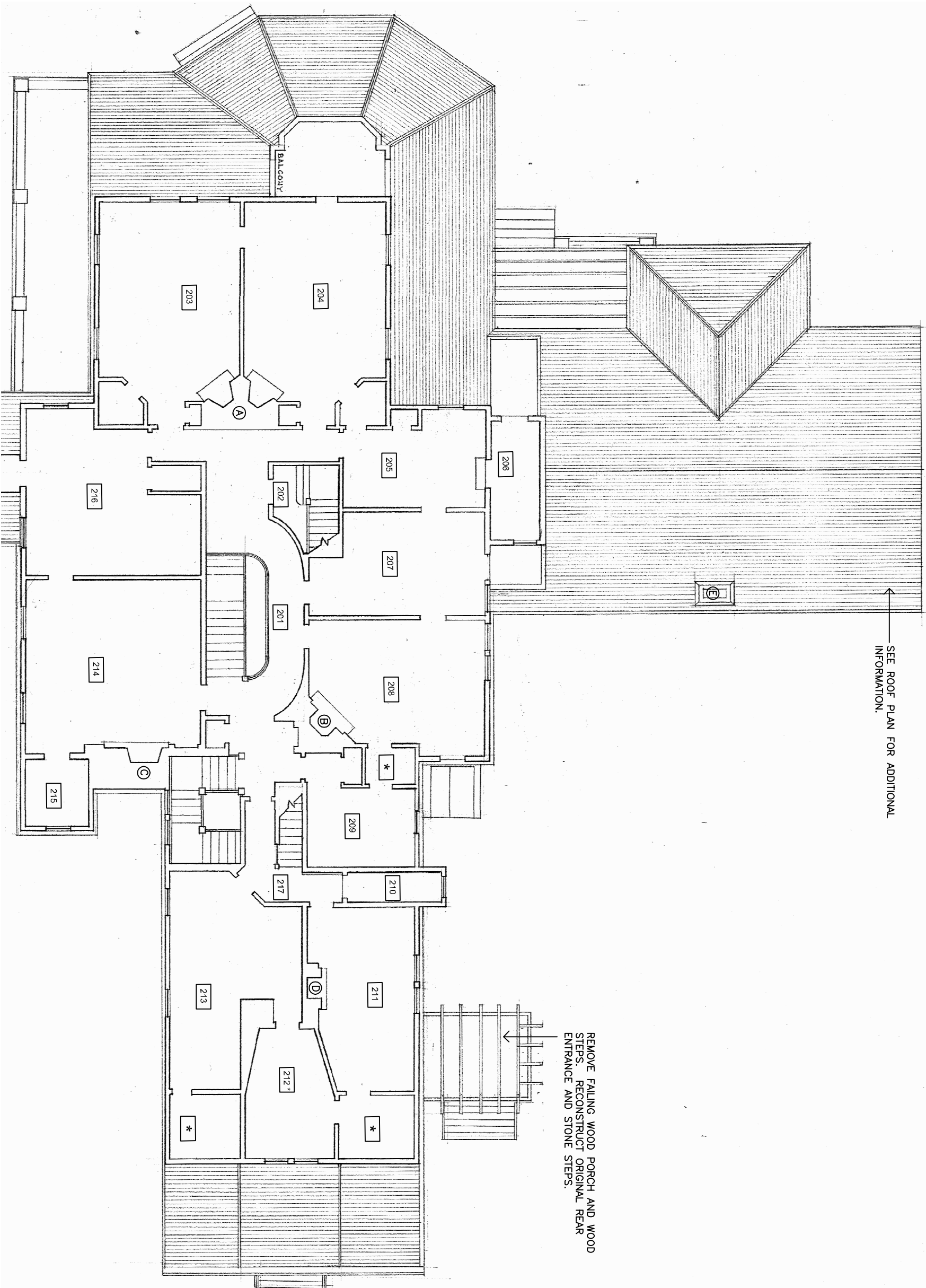
LEGEND:
--- : DETAIL DRAWING
(A) : CHIMNEY DESIGNATION

DESIGNED: JGWA ATR	SUB SHEET NO. A1.1	TITLE OF SHEET FIRST FLOOR PLAN	DRAWING NO. _____
TECH. REVIEW: DATE: 05/13/09		THEODORE ROOSEVELT HOUSE SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	SHEET 5 OF 29

NOTES:
1. SEE EXTERIOR ELEVATIONS FOR WORK TO BUILDING ENVELOPE ABOVE GRADE.

SEE ROOF PLAN FOR ADDITIONAL INFORMATION.

REMOVE FAILING WOOD PORCH AND WOOD STEPS. RECONSTRUCT ORIGINAL REAR ENTRANCE AND STONE STEPS.



LEGEND:

(A) : CHIMNEY DESIGNATION



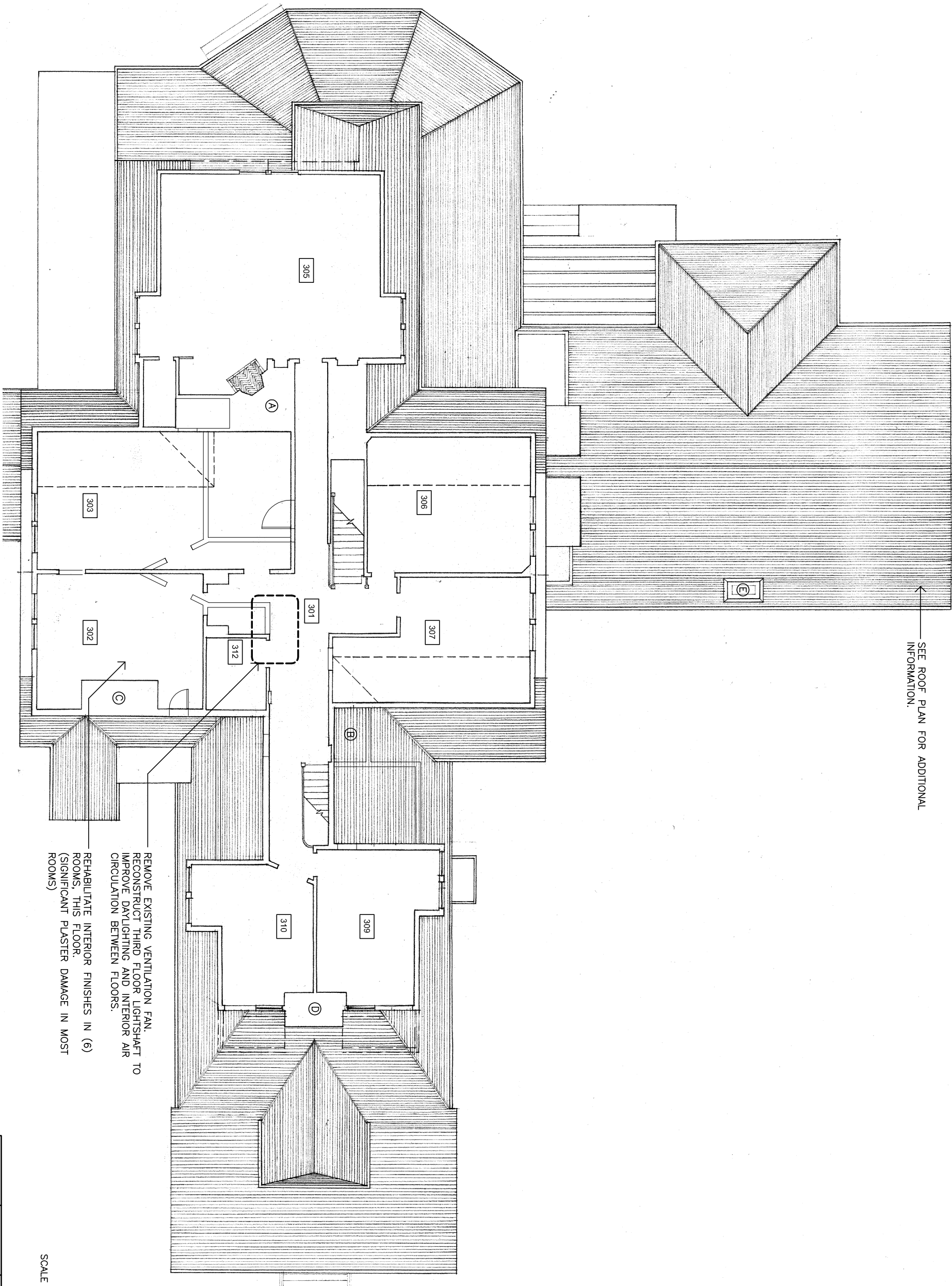
SCALE (A) 3/16" = 1'-0"

SCALE OF FEET

DESIGNED: JGWA @ABD	SUB SHEET NO.	TITLE OF SHEET SECOND FLOOR PLAN	DRAWING NO.
ATR	A1.2	THEODORE ROOSEVELT HOME SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	PMIS/PKG NO.
TECH. REVIEW:			SHEET
DATE: 05/13/09			6 OF 29

SEE ROOF PLAN FOR ADDITIONAL INFORMATION.

NOTES:
1. SEE EXTERIOR ELEVATIONS FOR WORK TO BUILDING ENVELOPE ABOVE GRADE.



SCALE (A) 4 0 4 8 12
SCALE OF FEET 3/16" = 1'-0"



LEGEND:
--- : DETAIL DRAWING
(A) : CHIMNEY DESIGNATION

DESIGNED: JGWA GABD	SUB SHEET NO.	TITLE OF SHEET THIRD FLOOR PLAN	DRAWING NO. _____
ATR		THEODORE ROOSEVELT HOME	PMIS/PKG NO. _____
TECH. REVIEW:		SAGAMORE HILL NATIONAL HISTORIC SITE	SHEET 7 OF 29
DATE: 05/13/09		OYSTER BAY, NEW YORK	

NOTES:

1. SEE EXTERIOR ELEVATIONS FOR WORK TO BUILDING ENVELOPE ABOVE GRADE.

— SEE ROOF PLAN FOR ADDITIONAL INFORMATION.

— SMALL CRAWLSPACE ABOVE ROOM 103

— ROOF —→

— ROOF —

(CRAWLSPACE)

A

— ATTIC SPACE —

(B)

(CRAWLSPACE)

(D)

LEGEND:
----- : DETAIL DRAWING
Ⓐ : CHIMNEY DESIGNATION



SCALE (A)

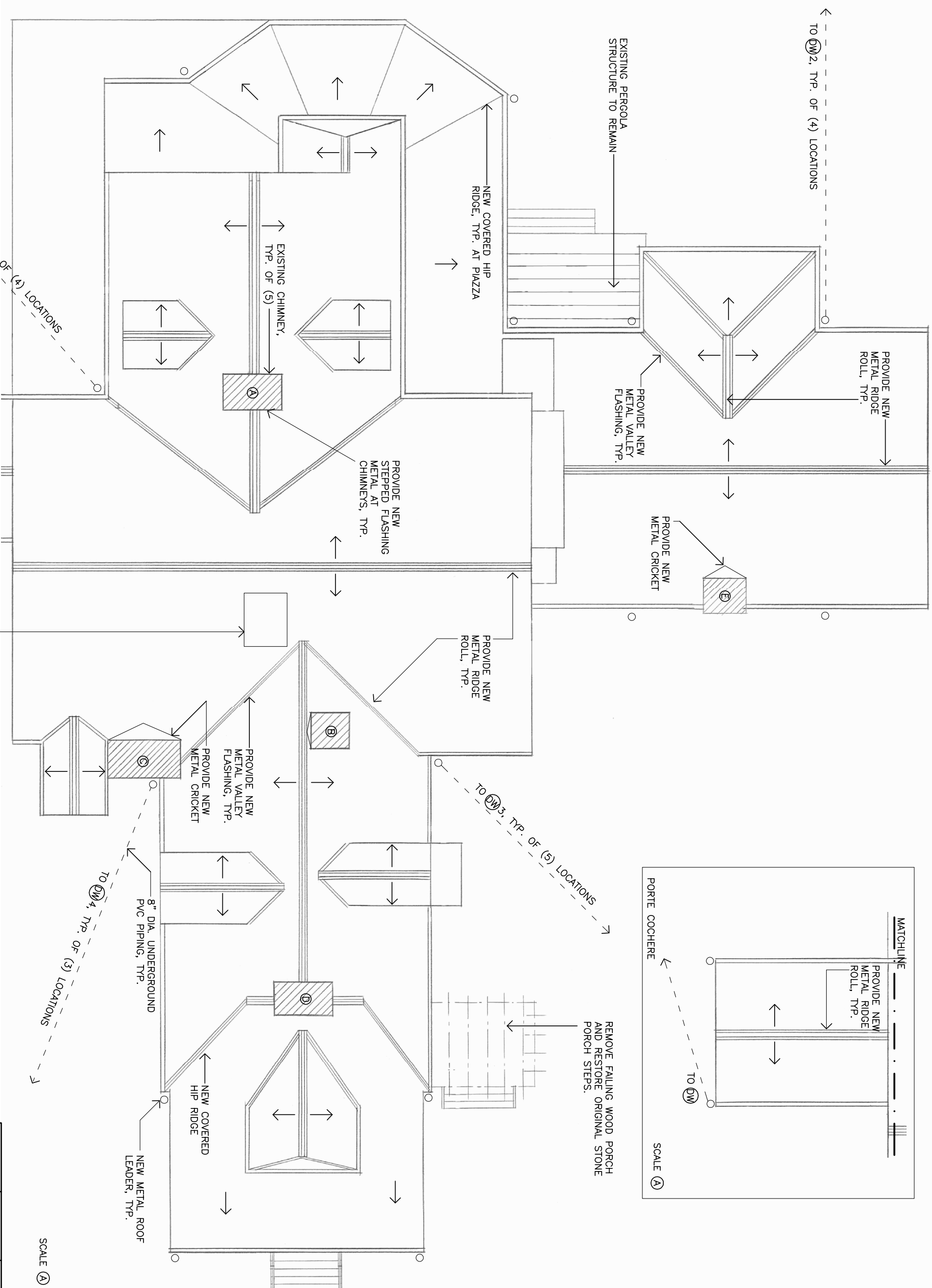


- REMOVE EXISTING VENTILATION FAN. RECONSTRUCT THIRD FLOOR LIGHTSHAFT TO IMPROVE DAYLIGHTING AND INTERIOR AIR CIRCULATION BETWEEN FLOORS.

1
PORTE COCHERE NOT SHOWN FOR CLARITY

DESIGNED:	SUB SHEET NO.		TITLE OF SHEET <h1>ATTIC FLOOR PLAN</h1> <p>THEODORE ROOSEVELT HOME SAGAMORE HILL NATIONAL HISTORIC SITE OYSTERS BAY, NEW YORK</p>	DRAWING NO.
JGMA				_____
SABD				
ATR				PMS/PKG NO.
TECH. REVIEW:				
DATE:	A1.4		SHEET	
05/13/09			8 of 29	

- NOTES:
1. SEE EXTERIOR ELEVATIONS FOR WORK TO BUILDING ENVELOPE ABOVE GRADE.
 2. (4) 10'-0" DIAM. PRE-CAST CONCRETE DRWELLS SIZED TO ACCOMMODATE 5,000 GAL/HOUR EACH (100 YEAR STORM); CONNECTED TO ROOF DRAINAGE SYSTEM WITH UNDERGROUND 8" PVC PIPE.
 3. REMOVE EXISTING WOOD SHINGLES, BUILD-IN GUTTERS AND METAL FLASHINGS. EXISTING SHEATHING TO REMAIN.
 4. REPAIR MISSING OR DAMAGED SHEATHING AND PROVIDE NEW HEAT-REFLECTIVE UNDERLAYMENT, SHINGLE VENTILATION MAT AND WOOD SHINGLES, TYP. ALL SLOPED ROOF SURFACES. MAX SHINGLE WIDTH NOT GREATER THAN 6 INCHES. EXPOSURE TO BE DETERMINED.
 5. GUTTER CONFIGURATION TO BE DETERMINED FOLLOWING FURTHER PHYSICAL AND ARCHIVAL INVESTIGATION.
 6. PROVIDE NEW LIGHTNING PROTECTION SYSTEM ON ROOF. COORDINATE WITH OTHER LOCATIONS.



SCALE (A)



Ⓐ : CHIMNEY DESIGNATION
ⒹⓂ : PROPOSED DRYWELL

LEGEND:

TITLE OF SHEET	DRAWING NO.
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ROOF PLAN

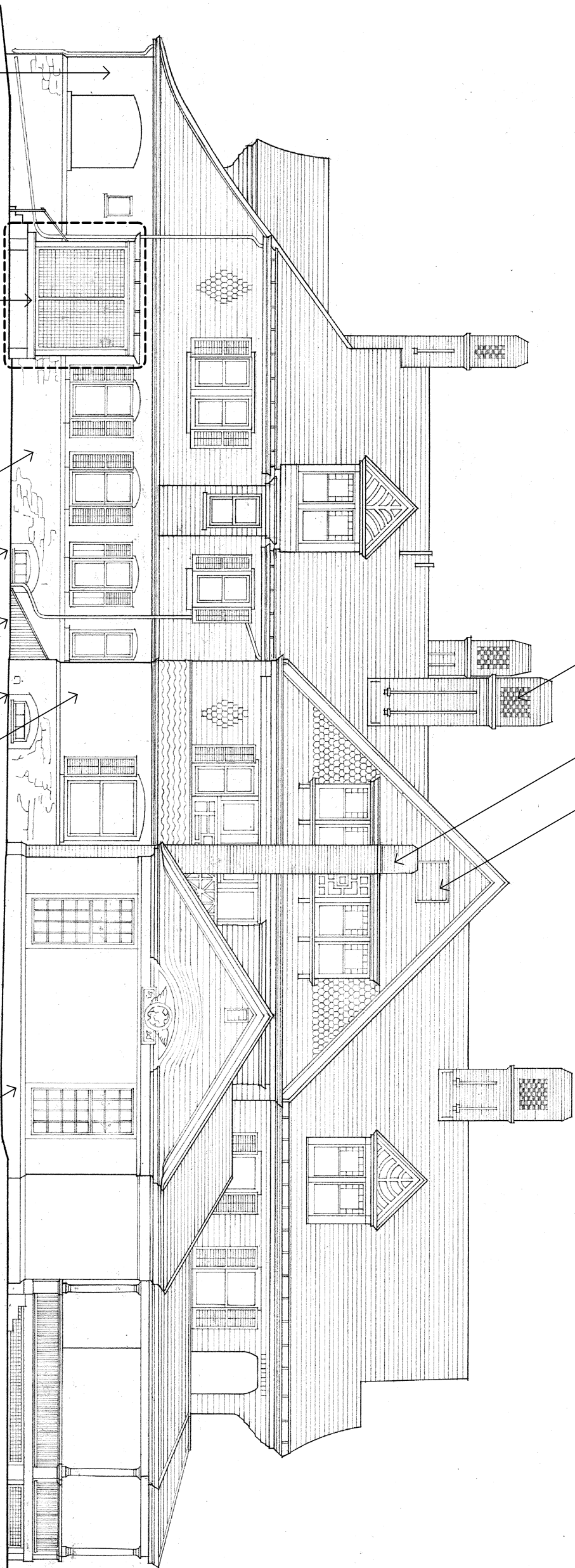
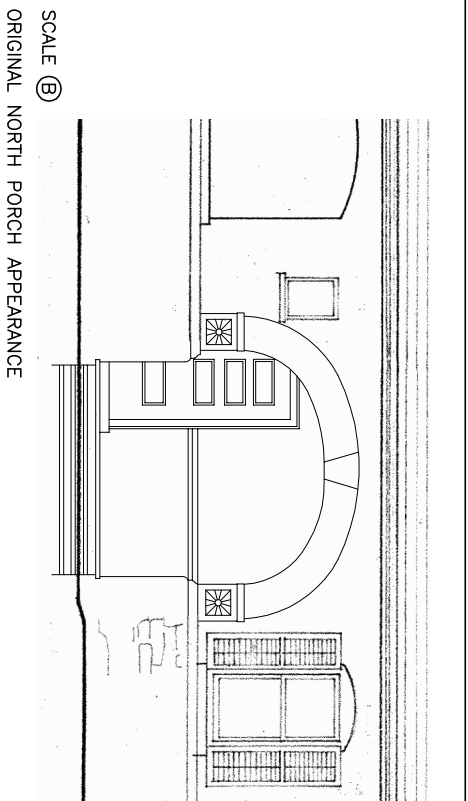
A15

SAGAMORE HILL NATIONAL HISTORIC SITE
OYSTER BAY, NEW YORK

SHEET
9 OF 29

RESTORE ORIGINAL LOUVER CONFIGURATION
AT ATTIC.

REMOVE ALL PEELING PAINT FROM
MASONRY SURFACES. REPOINT AND
REPAINT TO MATCH EXISTING.



SCALE (A)

REMOVE ALL PEELING PAINT FROM
MASONRY SURFACES. REPOINT AND
REPAINT TO MATCH EXISTING.

REMOVE FAILING WOOD PORCH AND
RESTORE ORIGINAL STONE PORCH STEPS.

REMOVE BLISTERING PAINT AND
DETERIORATING MORTAR. REPOINT BRICK
MASONRY AND REPAINT TO MATCH
EXISTING.

REPAIR SPALLING AND REPOINT OPEN
JOINTS IN STONE WATERTABLE (TYP.)

REGRADE SOIL IN AREA INDICATED TO
EXPOSE EXISTING BASEMENT WINDOW SILL.

REMOVE ALL PEELING PAINT, BIOLOGICAL
GROWTH AND ROTTING WOOD. REPAIR
AND REPAINT BULKHEAD TO MATCH
EXISTING.

REMOVE ALL DETERIORATING MORTAR.
REPOINT MASONRY TO MATCH EXISTING.

REMOVE ALL BIOLOGICAL GROWTH ON
MASONRY SURFACES.

LEGEND:

----- : DETAIL DRAWING

SCALE (B) 1/4" = 1'-0"

SCALE (A) 3/16" = 1'-0"

DESIGNED:	JGWA	SUB SHEET NO.		TITLE OF SHEET	DRAWING NO.
BY	ABD				
TECH. REVIEW:	ABD				
DATE:	05/13/09				
A2.00				NORTH ELEVATION	
				THEODORE ROOSEVELT HOME	
				SAGAMORE HILL NATIONAL HISTORIC SITE	
				OYSTER BAY, NEW YORK	
					SHEET
					10 OF 29

NOTES:

1. PREPARE AND PAINT ALL WOOD SHINGLE CLADDING, TRIM, WINDOWS, STORM WINDOWS AND SHUTTERS (TYP. OF ALL ELEVATIONS).

REMOVE BLISTERING PAINT AND DETERIORATING MORTAR. REPOINT BRICK MASONRY AND REPAINT TO MATCH EXISTING (TYP. OF 5).

RESTORE ORIGINAL LOUVER CONFIGURATION AT ATTIC.

REMOVE SHINGLES IN AREA OF NON-STAGGERED VERTICAL JOINTS. REPLACE TO MATCH EXISTING AND PAINT TO MATCH SURROUNDING.

RESTORE WOOD SHUTTERS, TYP.

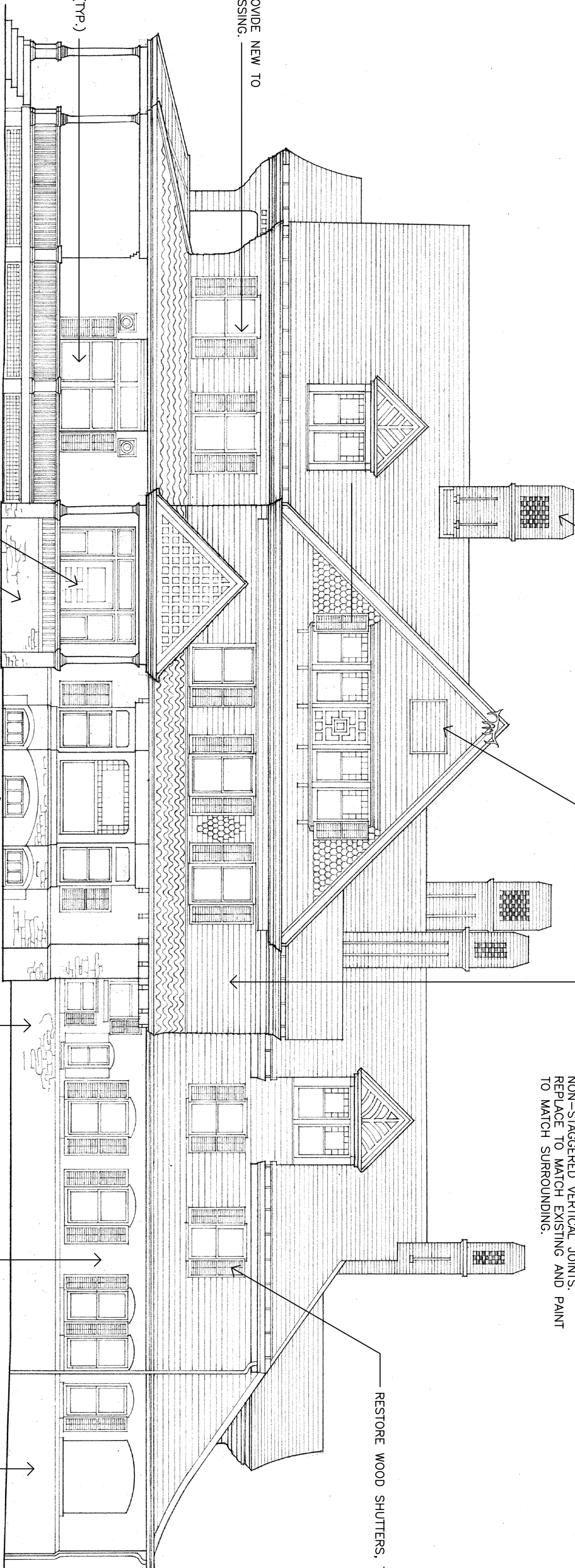
RESTORE STORM SASH, PROVIDE NEW TO MATCH ORIGINAL WHERE MISSING.

RESTORE WOOD WINDOWS (TYP.)

RESTORE EXTERIOR DOORS, TYP.

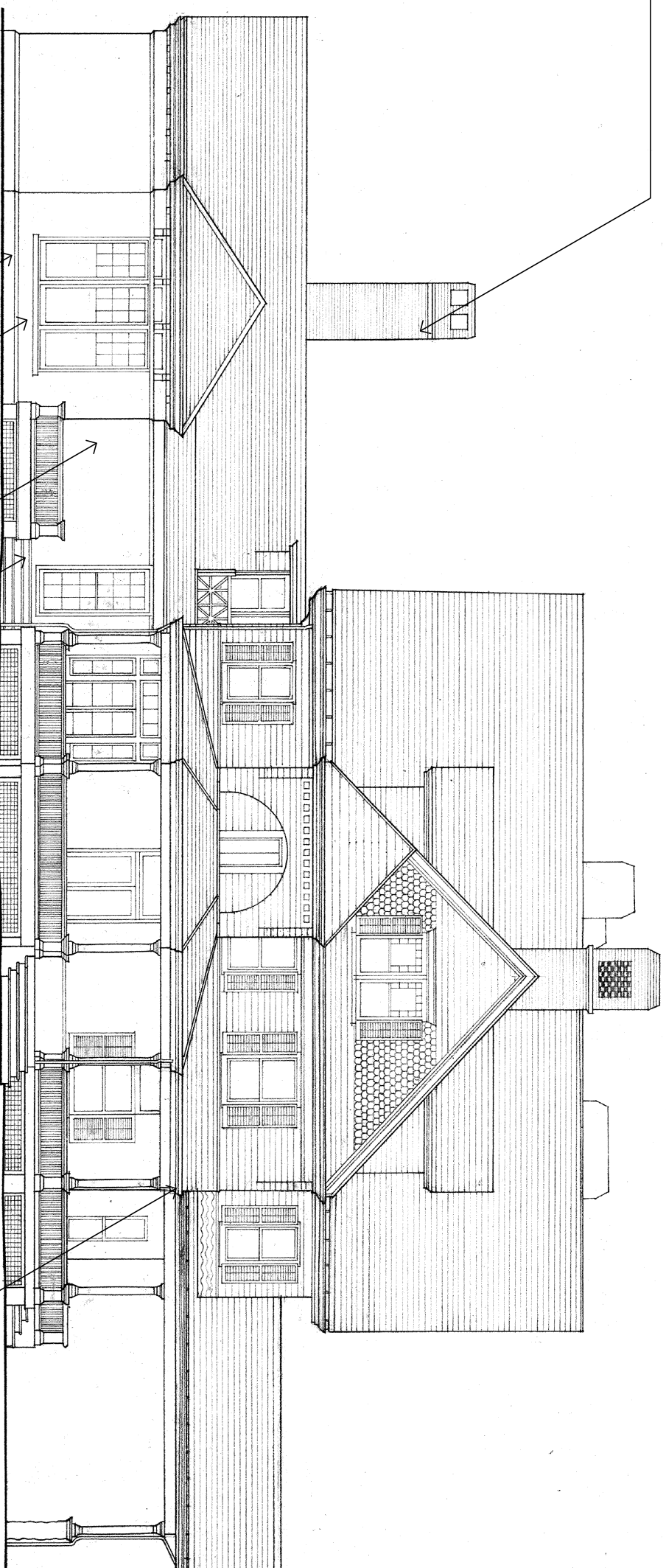
RESTORE WOOD FRONT PORCH STEPS AND PORCH FLOORING.
REMOVE ALL ROTTING WOOD IN AREA INDICATED. REPLACE WITH NEW MATERIALS AND PAINT TO MATCH EXISTING.

REMOVE ALL DETERIORATING MORTAR. REPOINT BRICK MASONRY AND REPAINT TO MATCH EXISTING.
REMOVE ALL BIOLOGICAL GROWTH ON MASONRY SURFACES.
REGRADE SOIL IN AREA INDICATED TO EXPOSE EXISTING BASEMENT WINDOW SILL.
REPAIR SPALLING AND REPOINT OPEN JOINTS IN STONE WATERTABLE. (TYP.)



DESIGNED: JGWA	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
ATR		SOUTH ELEVATION	
TECH. REVIEW:	A2.02	THEODORE ROOSEVELT HOME	PMIS/PKG NO.
DATE: 05/13/09		SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	SHEET
			12 OF 29

REMOVE BLISTERING PAINT AND DETERIORATING MORTAR. REPOINT BRICK MASONRY AND REPAINT TO MATCH EXISTING (TYP. OF 5).



INCORPORATE ACCESSIBLE ENTRANCE, SEE DRAWINGS, SHEET A3.0.

REMOVE BLISTERING PAINT AND DETERIORATING MORTAR. REPOINT BRICK MASONRY AND REPAINT TO MATCH EXISTING.

REPAIR STEPPED CRACKING IN BRICK
MASONRY, REPOINT AND PAINT TO MATCH
EXISTING.

REPAIR SPALLING AND REPOINT OPEN JOINTS IN STONE WATERTABLE. (TYP.)

— REMOVE ALL ROTTING WOOD IN AREA INDICATED. REPLACE WITH NEW MATERIALS TO MATCH EXISTING.

SCALE OF FEET

4 0 4 8 1

SCALE (A)

DESIGNED:

JGWA

CADD

ATR

TECH. REVIEW

DATE: _____

SUB SHEET NO.

A2.03

TITLE OF SHEET

WEST ELEVATION

THEODORE ROOSEVELT HOME

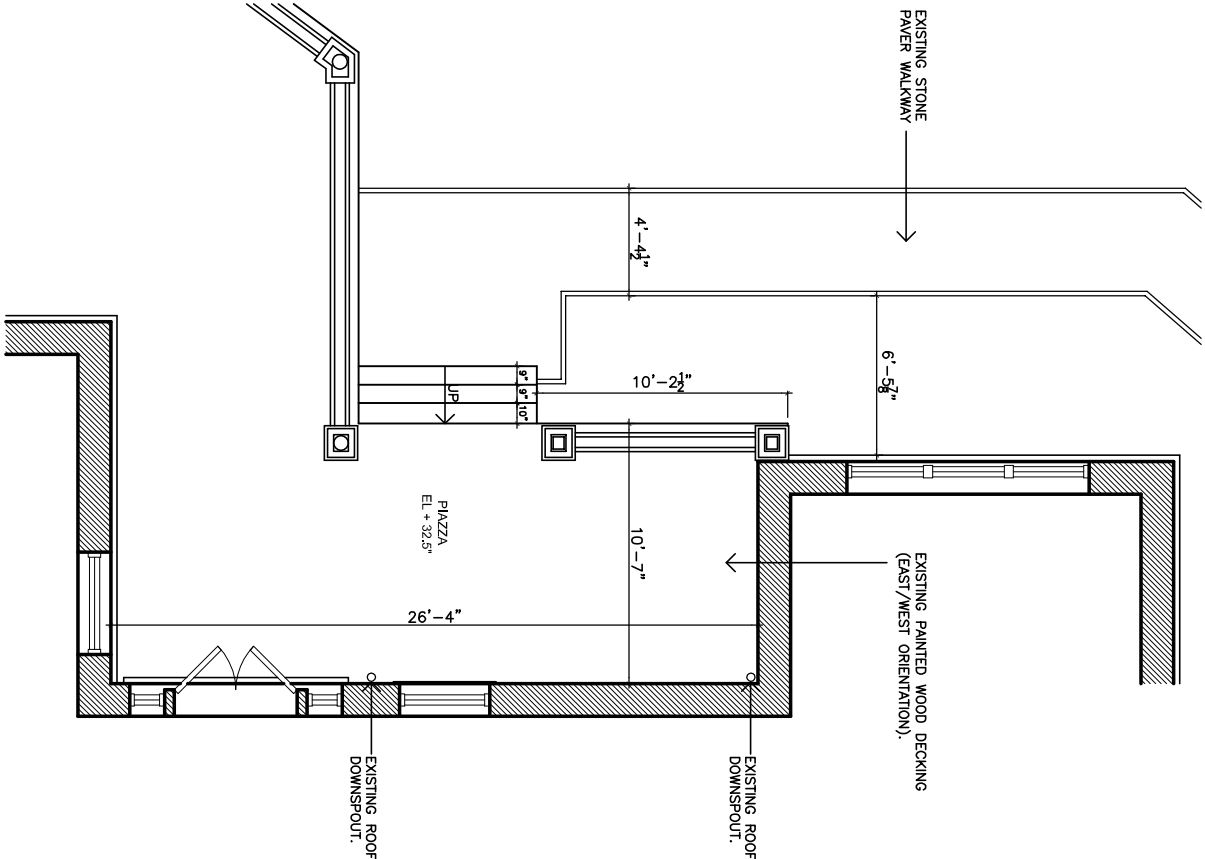
SAGAMORE HILL NATIONAL HISTORIC SITE
OYSTER BAY, NEW YORK

DRAWING NO.

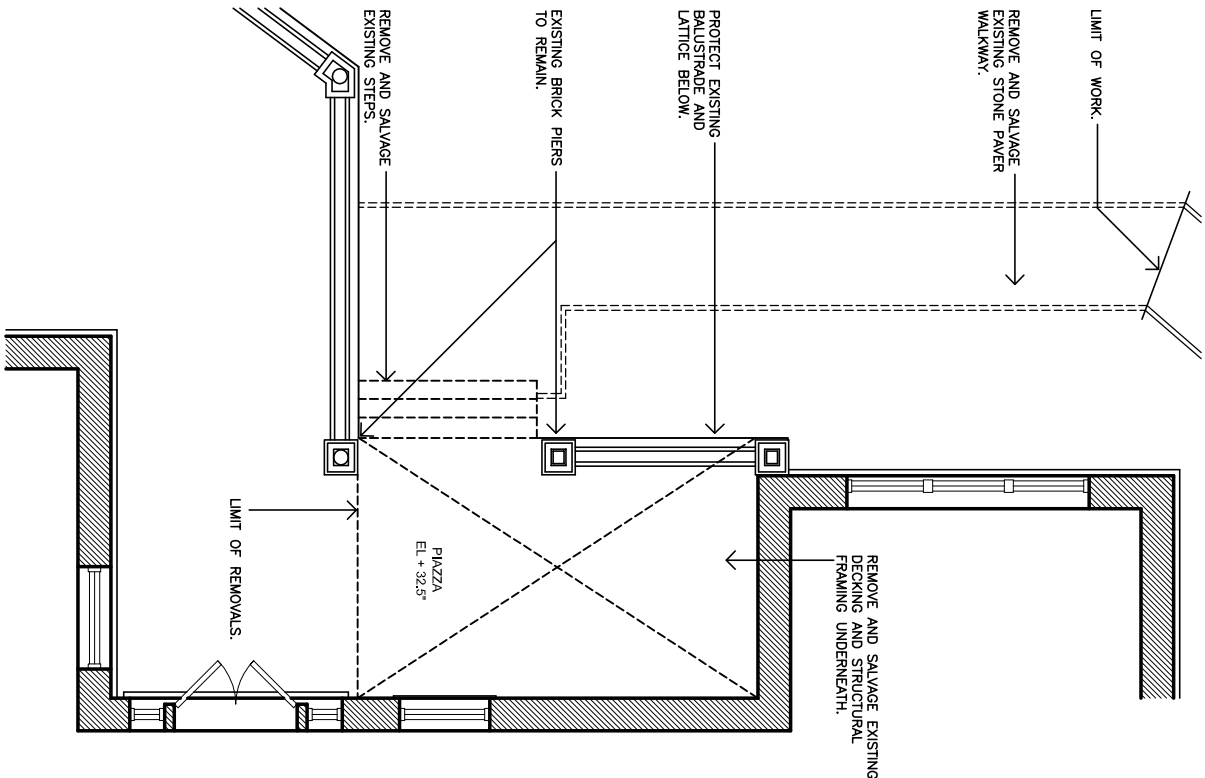
PMIS/PKG NC

SHEET

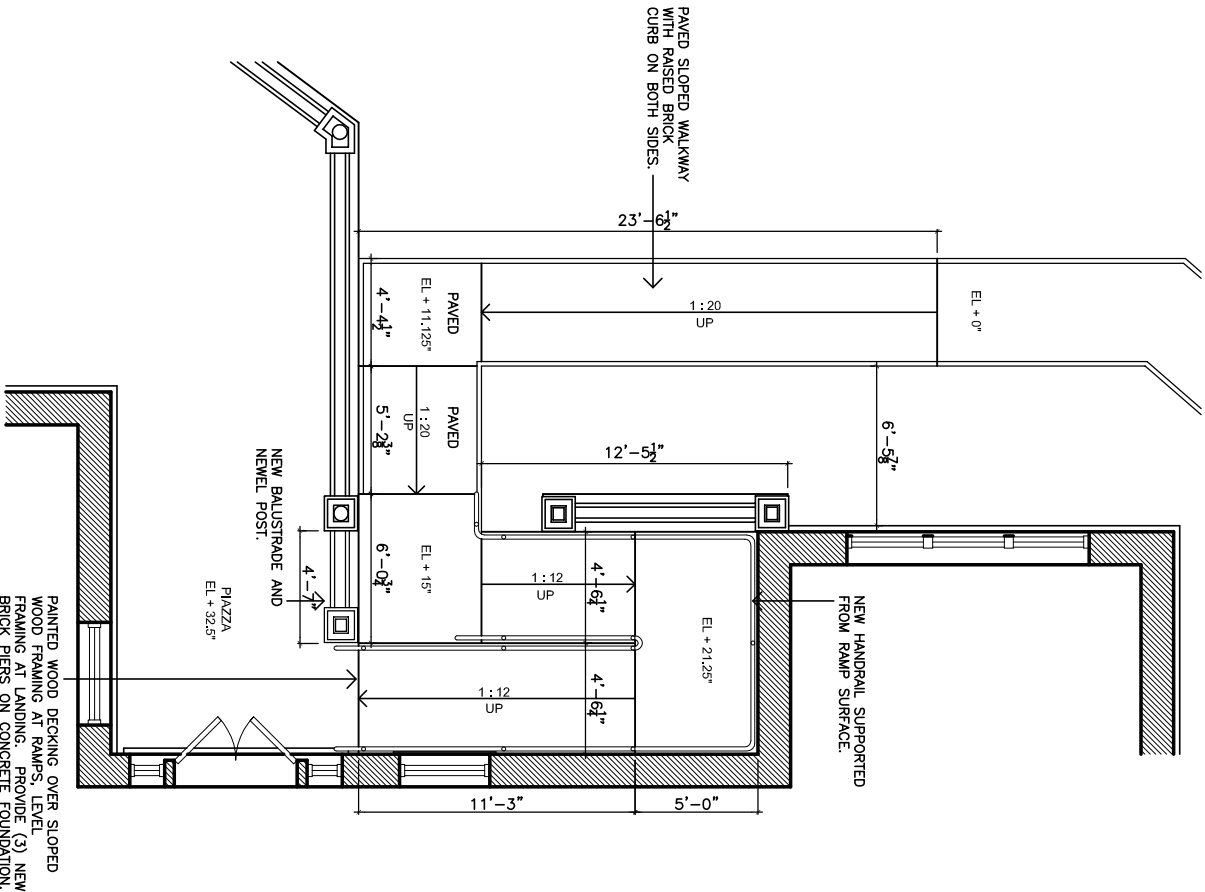
13 OF 29



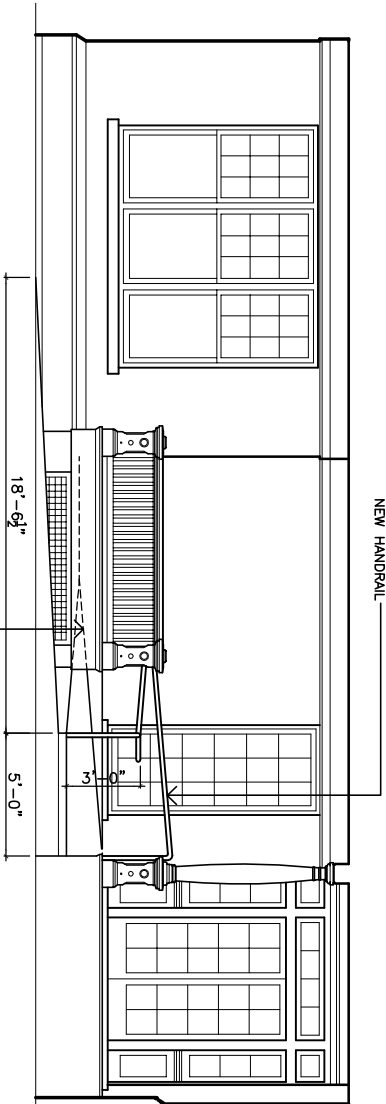
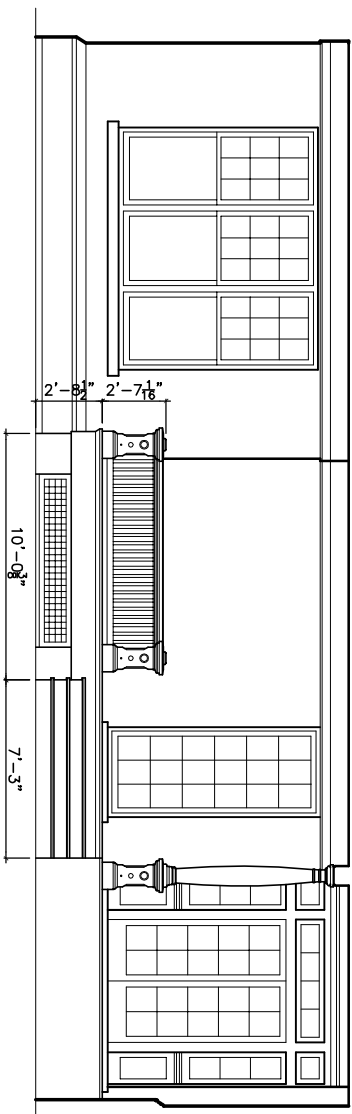
PLAN — EXISTING CONDITIONS



PLAN — REMOVALS



PLAN — PROPOSED RAMP

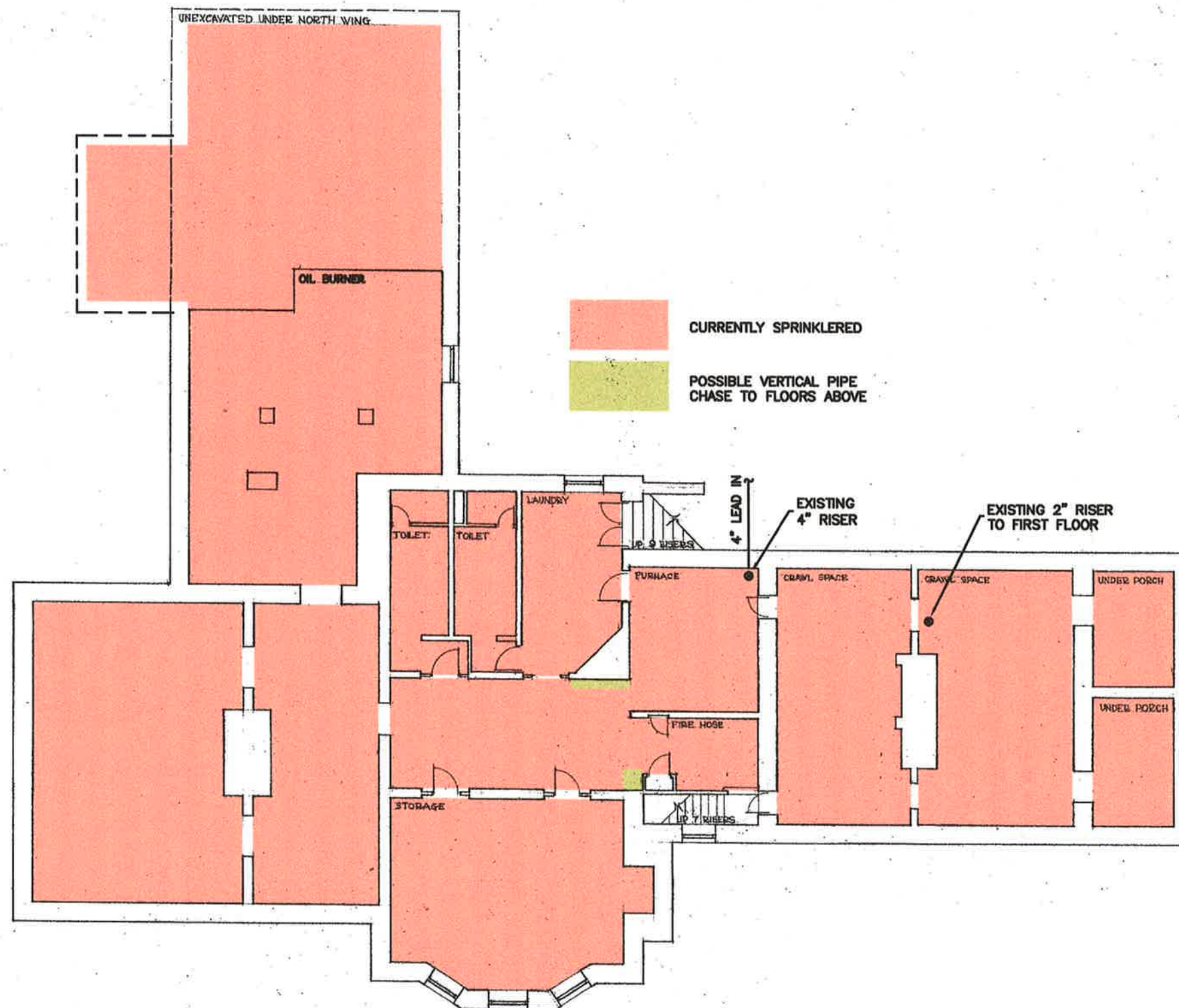


SCALE A 4 0 4 8
SCALE OF FEET
1/4" = 1'-0"

WEST ELEVATION — EXISTING CONDITIONS

WEST ELEVATION — PROPOSED RAMP

DESIGNED: JGWA ATR	SUB SHEET NO.	TITLE OF SHEET ACCESSIBLE ENTRANCE NORTHWEST PORCH	DRAWING NO. _____
TECH. REVIEW: DATE: 05/13/09	A3.0	THEODORE ROOSEVELT HOME SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	PMIS/PKG NO. _____
			SHEET 14 OF 29



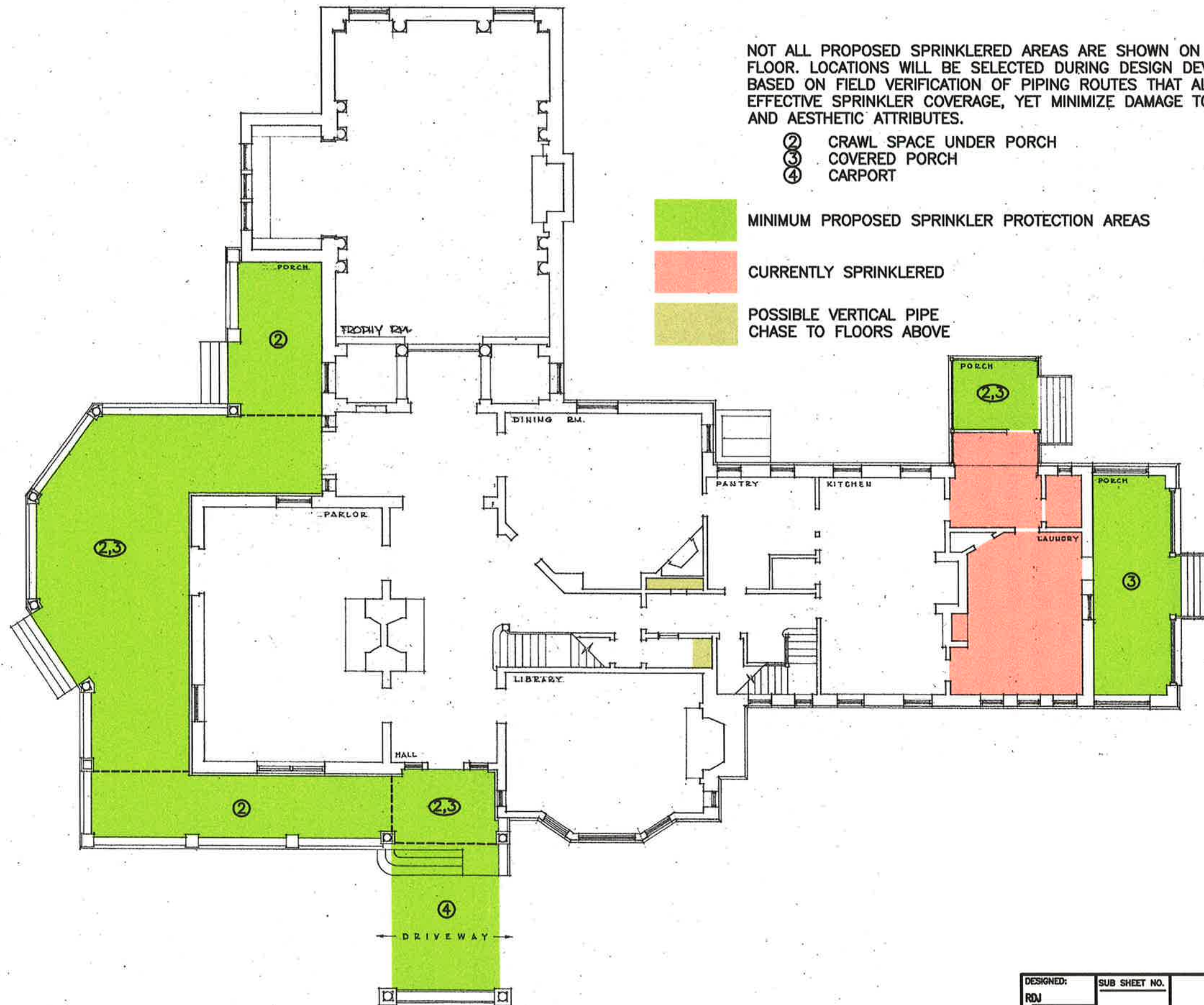
0 6 12 24
SCALE IN FEET

DESIGNED: RDJ	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
REVIEWED: RJR		FIRE PROTECTION	
TECH. REVIEW: TEF	FP1.0	BASEMENT	PMS/PKG NO.
DATE: 05/13/09		THEODORE ROOSEVELT HOME	SHEET
		SAGAMORE HILL NATIONAL HISTORIC SITE	15 of 29
		OYSTER BAY, NEW YORK	

NOT ALL PROPOSED SPRINKLERED AREAS ARE SHOWN ON THIS FLOOR. LOCATIONS WILL BE SELECTED DURING DESIGN DEVELOPMENT BASED ON FIELD VERIFICATION OF PIPING ROUTES THAT ALLOW FOR EFFECTIVE SPRINKLER COVERAGE, YET MINIMIZE DAMAGE TO HISTORIC AND AESTHETIC ATTRIBUTES.

- ② CRAWL SPACE UNDER PORCH
- ③ COVERED PORCH
- ④ CARPORT

- MINIMUM PROPOSED SPRINKLER PROTECTION AREAS
- CURRENTLY SPRINKLERED
- POSSIBLE VERTICAL PIPE CHASE TO FLOORS ABOVE

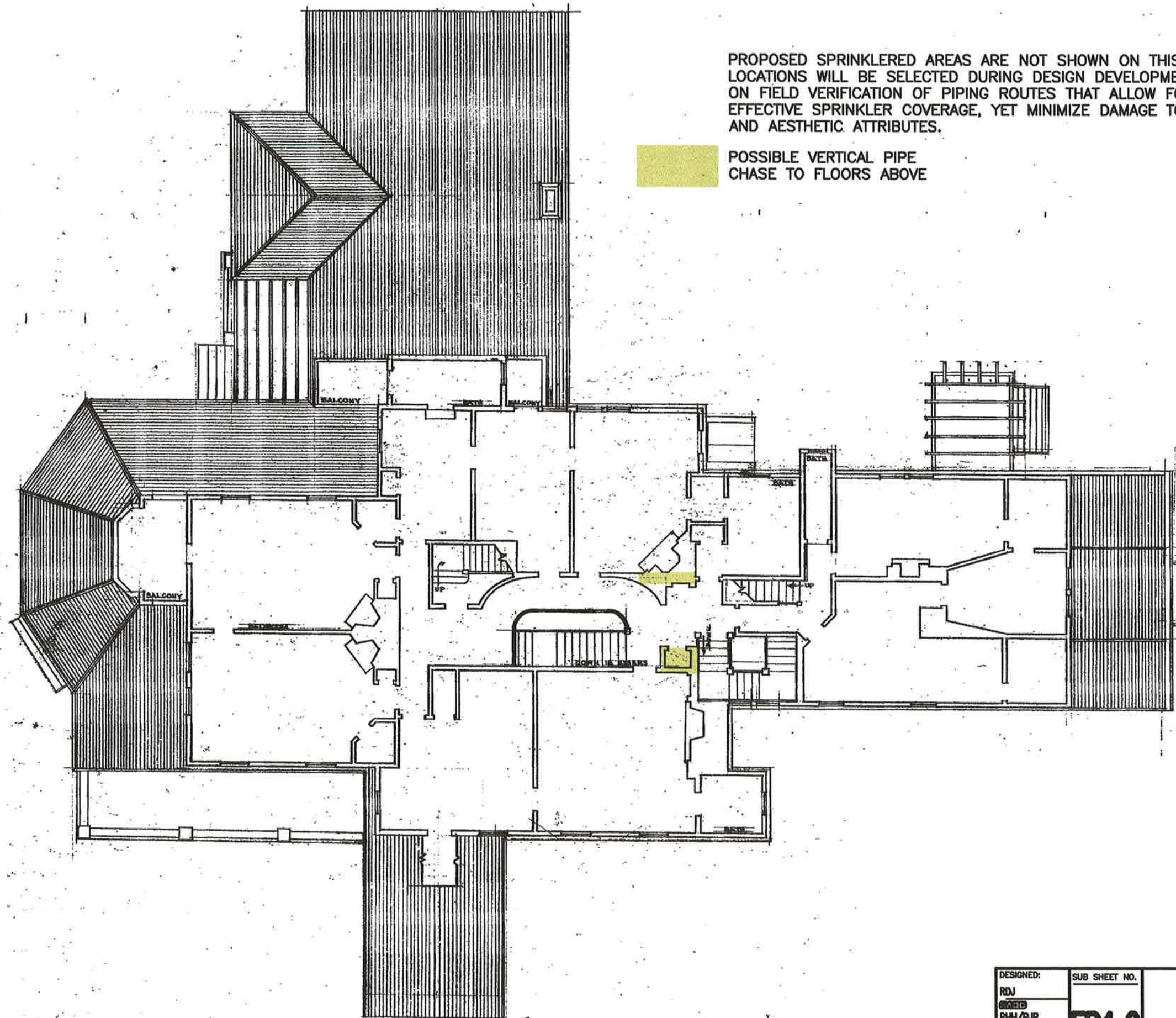


0 6 12 24
SCALE IN FEET

DESIGNED: RDJ	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
CHAD		FIRE PROTECTION	
RHH/RJR		FIRST FLOOR	
TECH. REVIEW:		THEODORE ROOSEVELT HOME	PMS/PKG NO.
TEF		SAGAMORE HILL NATIONAL HISTORIC SITE	SHEET
DATE: 05/13/09		OYSTER BAY, NEW YORK	16 of 29

PROPOSED SPRINKLERED AREAS ARE NOT SHOWN ON THIS FLOOR. LOCATIONS WILL BE SELECTED DURING DESIGN DEVELOPMENT BASED ON FIELD VERIFICATION OF PIPING ROUTES THAT ALLOW FOR EFFECTIVE SPRINKLER COVERAGE, YET MINIMIZE DAMAGE TO HISTORIC AND AESTHETIC ATTRIBUTES.

POSSIBLE VERTICAL PIPE CHASE TO FLOORS ABOVE

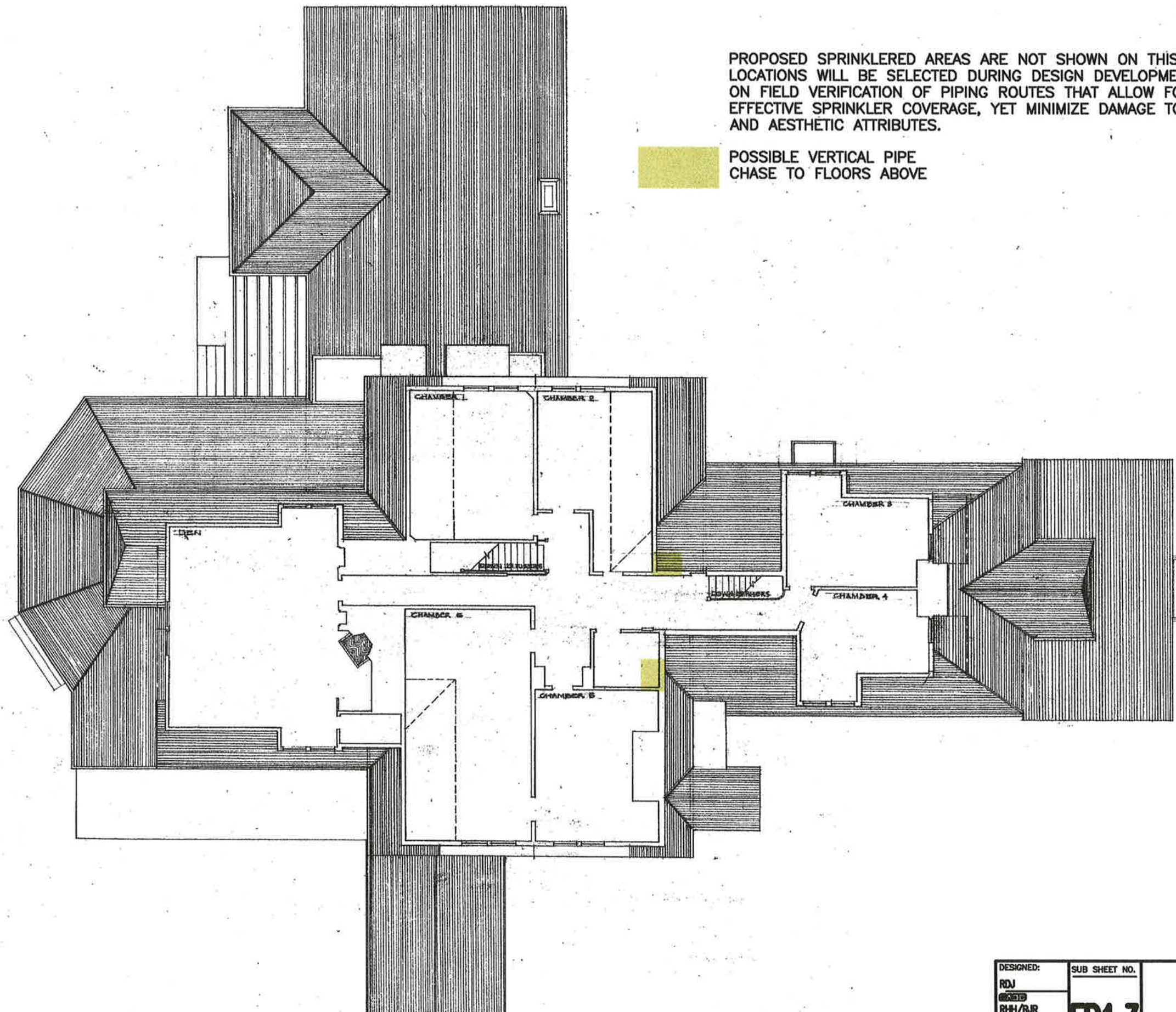


0 6 12 24
SCALE IN FEET

DESIGNED: RDJ	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
REVIEWED: RHH/RJR		FIRE PROTECTION	
TECH. REVIEW: TEF		SECOND FLOOR	
DATE: 05/13/09		THEODORE ROOSEVELT HOME	
		SAGAMORE HILL NATIONAL HISTORIC SITE	
		OYSTER BAY, NEW YORK	
			PMS/PKG NO.
			SHEET
			17 OF 29

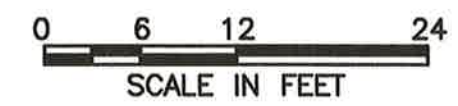
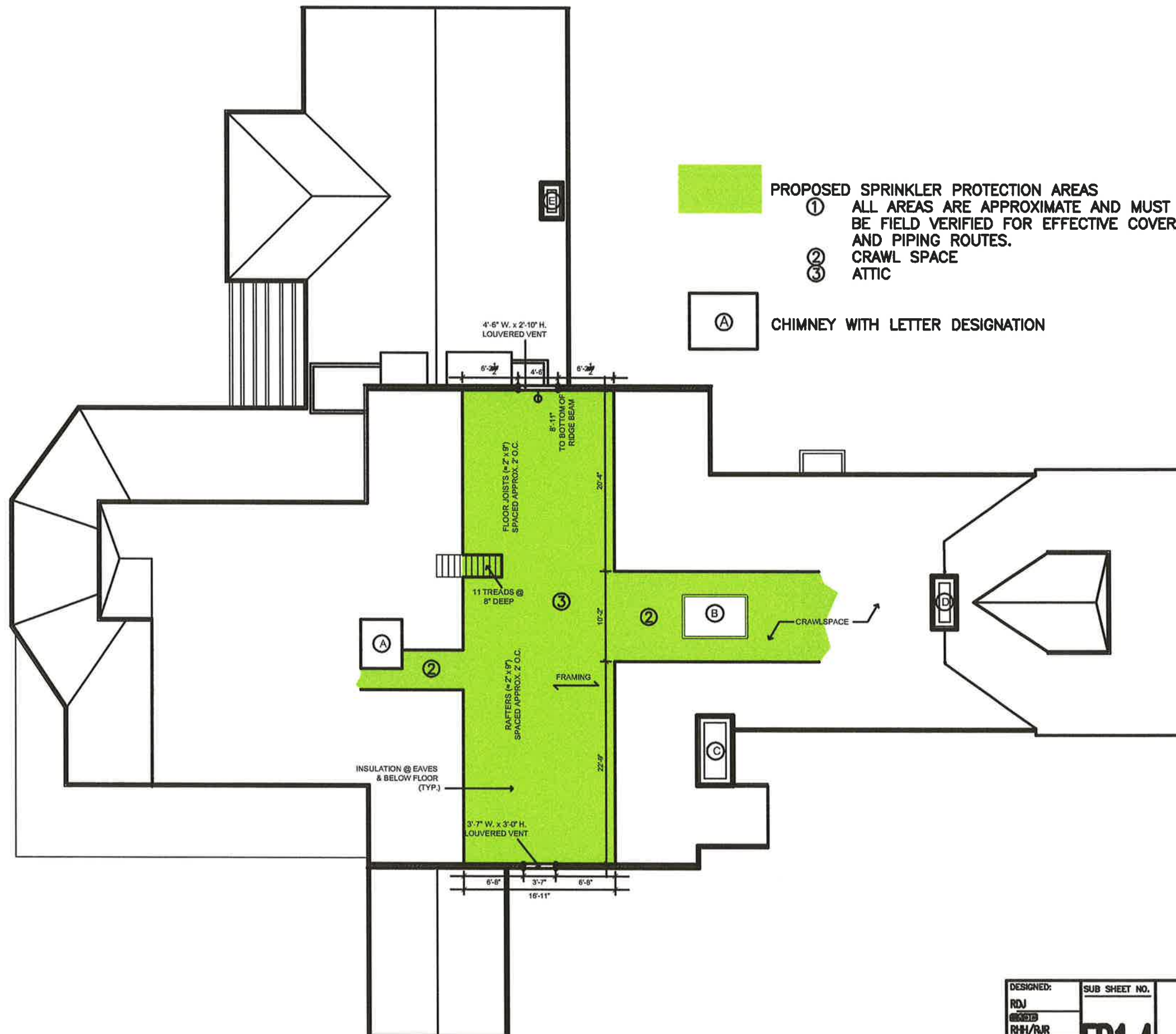
PROPOSED SPRINKLERED AREAS ARE NOT SHOWN ON THIS FLOOR. LOCATIONS WILL BE SELECTED DURING DESIGN DEVELOPMENT BASED ON FIELD VERIFICATION OF PIPING ROUTES THAT ALLOW FOR EFFECTIVE SPRINKLER COVERAGE, YET MINIMIZE DAMAGE TO HISTORIC AND AESTHETIC ATTRIBUTES.

POSSIBLE VERTICAL PIPE CHASE TO FLOORS ABOVE



0 6 12 24
SCALE IN FEET

DESIGNED: RDJ	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
REVIEW: RHH/RJR		FIRE PROTECTION	
TECH. REVIEW: TEF		THIRD FLOOR	
DATE: 05/13/09		THEODORE ROOSEVELT HOME	
		SAGAMORE HILL NATIONAL HISTORIC SITE	
		OYSTER BAY, NEW YORK	
			SHEET
			18 of 29



DESIGNED: RDJ 05/13/09 RH/RJR TECH. REVIEW: TEF DATE: 05/13/09	SUB SHEET NO. FP1.4	TITLE OF SHEET FIRE PROTECTION ATTIC FLOOR THEODORE ROOSEVELT HOME SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	DRAWING NO. — PMS/PKG NO. — SHEET 19 of 29
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PIPING SYMBOLS

SYMBOL	DESCRIPTION
	HOT WATER SUPPLY/RETURN
	REFRIGERANT LIQUID PIPING
	REFRIGERANT SUCTION PIPING
	DOMESTIC COLD WATER MAKE-UP
	DRAIN LINE
	VENT LINE
	ARROW INDICATES DIRECTION OF LOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	PIPE ANCHOR
	PIPE GUIDE
	PIPE EXPANSION JOINT
	EXPANSION COMPENSATOR
	EXPANSION LOOP (SIZE)
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR

SYMBOL	DESCRIPTION
	UNION
	CAPPED PIPE WITH GATE SHUT-OFF VALVE
	DIRT POCKET
	'Y' TYPE STRAINER WITH BLOW-OFF VALVE
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPE CHANGE IN PIPE ELEVATION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE WAY VALVE
	AUTOMATIC TWO WAY VALVE
	RELIEF VALVE
	RELIEF OR SAFETY VALVE
	BALL VALVE

SYMBOL	DESCRIPTION
	VALVE IN THE VERTICAL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL
	PRESSURE GAUGE AND COCK
	FLOW BALANCING STATION
	TRAP - TYPE AS NOTED
	HEATING ELEMENT
	HEATING ELEMENT WITH AUTOMATIC CONTROL VALVE
	EQUIPMENT DESIGNATION
	FIN TUBE DESIGNATION
	FTR TYPE
	ACTIVE LENGTH

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POSITIVE PRESSURE DUCT (SUPPLY) UP		SQUARE DUCT ELBOW WITH TURNING VANE
	NEGATIVE PRESSURE DUCT (RETURN OR EXHAUST) UP		RADIUS ELBOW
	POSITIVE PRESSURE DUCT (SUPPLY) DOWN		DUCT SPLIT
	NEGATIVE PRESSURE DUCT (RETURN OR EXHAUST) DOWN		BRANCH TAKE-OFF WITH VOLUME DAMPER
	SLOPING RISE IN DUCTWORK		DUCT COIL HC - HEATING COIL; CC - COOLING COIL
	SLOPING DROP IN DUCTWORK		CEILING DIFFUSER 4 WAY, 3 WAY, 2 WAY, 1 WAY
	ACCESS DOOR IN DUCT		SLOT DIFFUSER
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN DIMENSION		RETURN REGISTER OR GRILLE
	ROUND DUCT DIAMETER SIZE		TRANSFER GRILLE ON BOTH SIDES OF PARTITION OR WALL
	FLEXIBLE CONNECTION		SUPPLY TOP REGISTER OR GRILLE
	BACK DRAFT DAMPER		RETURN TOP REGISTER OR GRILLE
	VOLUME DAMPER		LOUVERED DOOR
	AUTOMATIC LOUVER DAMPER		UNDERCUT DOOR
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR		ACOUSTIC LINING IN DUCT (SIZE NOTED INDICATES CLEAR INSIDE DIMENSION)
	FIRE SMOKE DAMPER WITH FUSIBLE LINK AND ACCESS DOOR		FIRE RATED ENCASED DUCT
	FIRE SMOKE DAMPER (RESETTABLE TYPE) WITH HEAT SENSOR AND ACCESS DOOR		RISER DESIGNATION RISER SERVICE RISER NUMBER

MISCELLANEOUS SYMBOLS

SYMBOL	DESCRIPTION
	SECTION
	REVISION NUMBER
	THERMOSTAT AND WIRING
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	HUMIDISTAT AND WIRING
	DUCT SMOKE DETECTOR

GENERAL NOTES

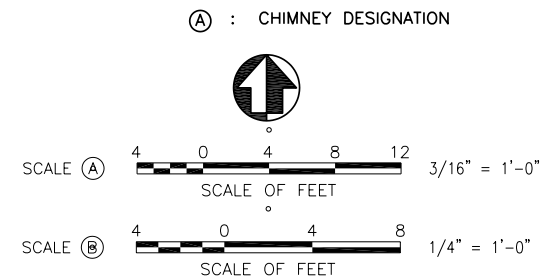
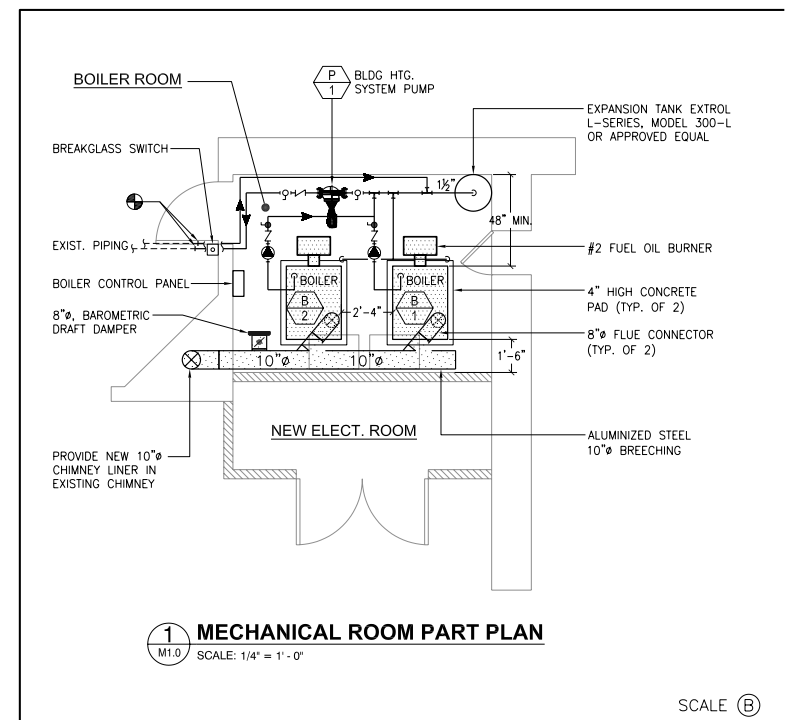
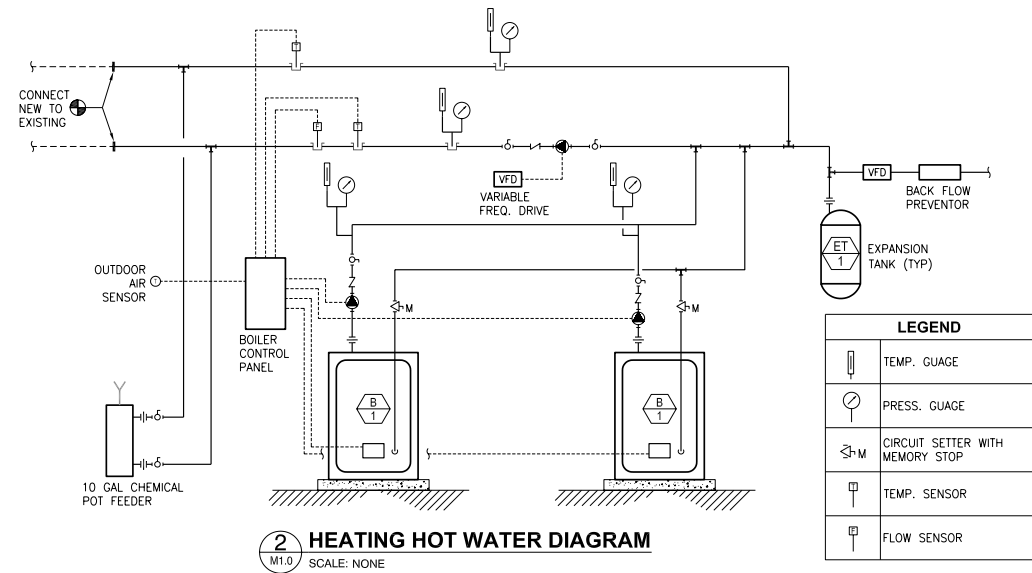
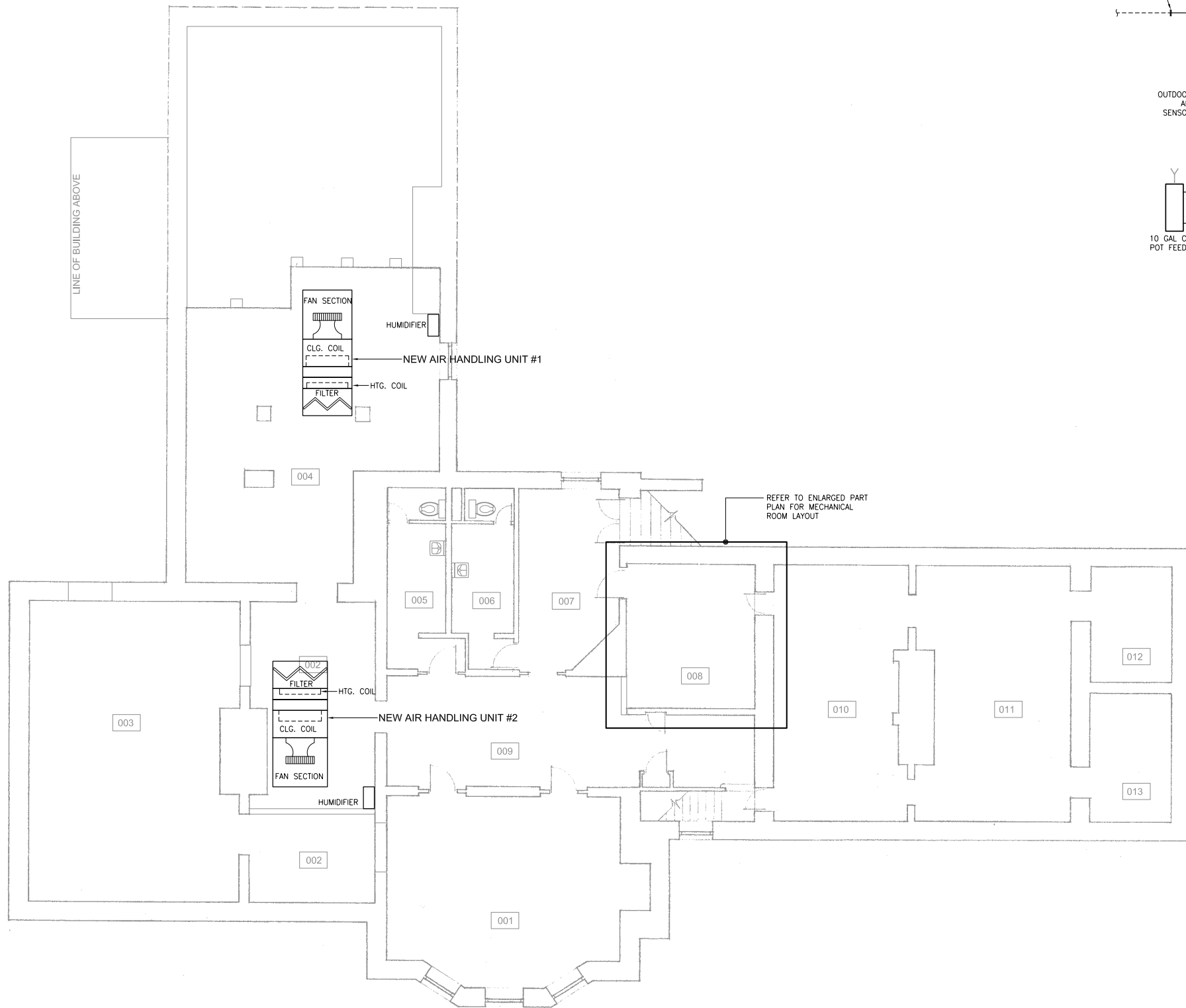
- WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL BE COORDINATED TO SUIT CONDITIONS.
- CONTRACT SHALL PROPOSE CHANGES IN DUCT SIZES AND/OR LOCATIONS WHERE NECESSARY TO CONFORM TO SPACE CONDITIONS.
- ALL DUCTWORK TO BE KEPT AS HIGH AS POSSIBLE SO AS TO MAINTAIN CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS.
- WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL BE SET UP AND DOWN.
- PROVIDE VOLUME DAMPERS ON ALL SPLITS AND TAPS FOR ALL LOW PRESSURE DUCTWORK.
- ACCESS IS REQUIRED BELOW ALL DAMPERS, AC UNITS, VALVES AND TERMINAL BOXES, AND OTHER MECHANICAL EQUIPMENT.
- FOR EXACT LOCATION OF CEILING DIFFUSERS AND REGISTERS, REFER TO ARCHITECT'S REFLECTED CEILING PLAN.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS AND SHALL BE RESPONSIBLE FOR FURNISHING ALL AIR OUTLETS WITH FRAMES AND BORDER COMPATIBLE WITH CEILING OR FLOOR CONSTRUCTION.
- FOR EXACT LOCATIONS OF THERMOSTATS, HUMIDISTATS AND SWITCHES, REFER TO ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL BALANCE ENTIRE SYSTEM TO CONFORM TO AIR QUANTITIES SHOWN.
- PROVIDE COMBINATION FIRE/SMOKE DAMPERS (WITH ACCESS DOORS) AT THE FOLLOWING POINTS:
 - POINT OF PASSING THROUGH SHAFT WALLS TO CONNECT TO VERTICAL RISERS.
 - WHERE PASSING THROUGH FLOOR OR CEILING CONSTRUCTION (NOT IN AIR SHAFTS).
 - WHERE PASSING THROUGH FIRE RATED PARTITIONS (REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED PARTITION).
 - WHERE INDICATED OR REQUIRED BY CODE.

- PROVIDE DRAIN VALVES AT ALL LOW POINTS OF ALL WATER SYSTEMS.
- PROVIDE AUTOMATIC VENTS AT ALL HIGH POINTS OF ALL WATER SYSTEMS.
- PROVIDE ON ALL MAIN BRANCH PIPING ONE (1) SHUT-OFF VALVE ON THE SUPPLY PIPE AND ONE (1) COMBINATION SHUT-OFF/BALANCING VALVE WITH PRESSURE/TEMPERATURE TAPS AND MEMORY STOP ON THE RETURN PIPE.
- PROVIDE VOLUME DAMPERS IN LOW PRESSURE DUCTWORK FOR ALL SUPPLY, RETURN, AND EXHAUST OUTLETS (EXCEPT FL) PROVIDE VOLUME DAMPERS (VD) AT EVERY DUCTWORK BRANCH, TAP AND SPLIT.
- PROVIDE ACCESS DOORS IN DUCTWORK OR PLENUMS WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - AUTOMATIC DAMPERS.
 - FILTER BANKS
 - FIRE DAMPERS.
 - COMBINATION FIRE SMOKE DAMPERS.
- FOR AREAS WITH INACCESSIBLE CEILINGS, VOLUME DAMPERS SHALL BE PROVIDED WITH METAL FLEXIBLE STEEL CABLE OPERATORS FOR REMOTE OPERATION OF DAMPERS.
- HOT WATER PIPING:
 - PROVIDE MINIMUM PITCH TO INSURE ADEQUATE VENTING AND DRAINAGE.
 - PROVIDE AS REQUIRED, AUTOMATIC AIR VENTS, MANUAL AIR VENTS AND RELIEF VALVES.
- ALL MOTOR STARTERS LOCATED OUTDOORS OR EXPOSED TO WET OR DAMP CONDITIONS SHALL BE NEMA TYPE 4.
- NO PIPING SHALL BE SMALLER THAN 3/4 INCH UNLESS OTHERWISE NOTED.
- FOR PIPE SIZES NOT INDICATED ON PLANS, SEE EQUIPMENT CONNECTION DETAILS.
- PROVIDE FITTINGS FOR CHANGE IN PIPE SIZES FOR FINAL CONNECTIONS AS REQUIRED.

- PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF CONTROL VALVES.
- DRAINAGE PIPING PITCH NOT LESS THAN 1/8 PER FOOT.
- ALL DUCT DIMENSIONS ARE CLEAR INSIDE DUCT DIMENSIONS
- THE MINIMUM EXTERNAL STATIC PRESSURE NOTED ON THE AHU OR AC UNIT SCHEDULES IS EXCLUSIVE OF COMPONENTS FURNISHED BY THE UNIT MANUFACTURER AS PART OF THE UNIT INCLUDING, BUT NOT LIMITED TO, ALL COILS, ALL FILTERS (UNIT CASING, DISCHARGE PLENUM, DIFFUSION SECTION, HUMIDIFIER, SOUND ATTENUATOR, DAMPERS (INLET AND DISCHARGE), ETC.
- ALL DUCTS ELBOW SHALL BE ROUND ELBOW EXCEPT WHERE THERE IS A SPACE CONDITION.
- ALL DUCTS SERVING ELEVATOR HOISTWAY FOR SMOKE VENTING SHALL BE PROVIDED WITH TWO (2) HOUR RATED ENCLOSURE.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SPECIAL INSPECTIONS AS PART OF THIS CONTRACT. MECHANICAL CONTRACTOR SHALL PROVIDE THE NAME OF A LICENSED PROFESSIONAL ENGINEER TO ARCHITECT WHEN AWARDED THE CONTRACT.
- CONTRACTOR SHALL COORDINATE LOCATION OF SERVICE CONNECTION AND SLAB PENETRATIONS WITH EQUIPMENT MANUFACTURER'S. PROVIDE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATION.
- PROVIDE SMOKE DETECTOR AT SUPPLY MAIN DUCT FOR A.C. UNIT WITH AIR CAPACITY MORE THAN 2000 CFM.

PROGRESS SET 05.13.2009

DESIGNED: X @ADD X TECH. REVIEW:	SUB SHEET NO. MO.1	TITLE OF SHEET MECHANICAL SYMBOLS, NOTES, SCHEDULES & ABBREVIATIONS SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	DRAWING NO. _____ PMIS/PKG NO. _____ SHEET X OF X
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PROGRESS SET 05.13.2009

DESIGNED: X GADD X	SUB SHEET NO. M1.0	TITLE OF SHEET MECHANICAL PLAN BASEMENT	DRAWING NO. _____
TECH. REVIEW:	DATE: 05/13/09	SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	PMIS/PKG NO. _____
			SHEET X OF X

AIR HANDLING UNIT SCHEDULE																												
TAG	MANUFACTURER	MODEL #	LOCATION	SERVICE	FAN TYPE	FAN DATA					COOLING DATA							HEATING COIL DATA					UNIT ELECTRICAL				WEIGHT	
						TOTAL AIRFLOW CFM	MIN OA CFM	EXT SP IN. W.C.	FAN FLA	MOTOR HP	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	COIL ENT CONDITIONS		FACE AREA SQ. FT	ROWS	FINS	CAPACITY MBH	COIL ENT CONDITIONS DB (°F)	COIL LVG CONDITIONS DB (°F)	WATER CONDITIONS		FLOW GPM	PRESS DROP FT H ₂ O	VOLT/PH/HZ	MCA AMPS		MFS AMPS
													DB	WB							ENT °F	LVG °F						
AH-1	TEMPROL		BASEMENT	SEE PLANS	PLENUM	2500	500	1.00"		2	—	—	—	—	—	—	—	172.8	56	120	180	160	17.3	—	208/1/60	—	—	
AH-2	TEMPROL		BASEMENT	SEE PLANS	PLENUM	5000	1000	1.25"		5	—	—	—	—	—	—	—	345.6	56	120	180	160	34.6	—	208/1/60	—	—	

- NOTES:
- UNIT SHALL BE FURNISHED IN SPLIT SECTION TO FACILITATE RIGGING TO BASEMENT SPACE
 - FAN SECTION SHALL FURNISHED AS KNOCKDOWN TO FACILITATE RIGGING TO BASEMENT SPACE
 - UNIT TO BE ASSEMBLED AT SITE AND INSTALLATION CERTIFIED BY FACTORY TRAINED TECHNICIAN

HOT WATER BOILER SCHEDULE																												
ITEM	MANUFACTURER	MODEL	LOCATION	INPUT #2 FUEL OIL GPH	OUTPUT MBH	WATER TEMP		WATER FLOW RATE (GPM)	PRESSURE DROP FT (H2O)	BURNER (FUEL OIL)						NOT TO EXCEED DIMENSIONS			ELECTRICAL DATA				OPERTING WT LBS	MAX WORKING PRESSURE	REFLIEF VALVE SETTING	EFFICIENCY AFUE		
						ENT	LVG			MFR	MODEL	STAGES	ELECTRICAL				WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	FLUE (IN DIA)	VOLTS	PH					HZ	AMPS
													HP	VOLT	PH	HZ												
B-1,2	WEIL-MC-LAIN	MODEL 480	BOILER ROOM	3.4	344	160	180	35	± 5 FT	RIELLO	F20	ON-OFF	1/8	115	1ø	60	30"	40"	48"	8"	120	1	60	15	1500	80 PSIG	30 PSIG	83%


- NOTES:
- BOILER SHALL BE PROVIDED AS KNOCK DOWN, ASSEMBLED AT SITE.
 - BOILER SHALL BE CAPTURED SEAL DESIGN, ASME IRON AND LOW NOX OPTION.
 - PROVIDE 5 YEARS PARTS AND LABOR WARRANTY.

PUMP SCHEDULE													
TAG	MANUFACTURER	TYPE	MODEL #	SERVICE	LOCATION	FLOW RATE GPM	EFFICIENT (%)	WORKING FLUID	HEAD (FT H20)	MOTOR DATA			NOTES
										RPM	HP	VOLT/PH/HZ	
P-1&2	TACO	INLINE	111	BOILER LOOP	BOILER ROOM	35	–	WATER	7	1725	1/8	115/1/60	SPNH 1 (IN)
P-3	TACO	INLINE	1635	HW LOOP	BOILER ROOM	70	–	WATER	30	1750	1.0	208/1/60	SPNH 1 (IN) PROVIDE VFD

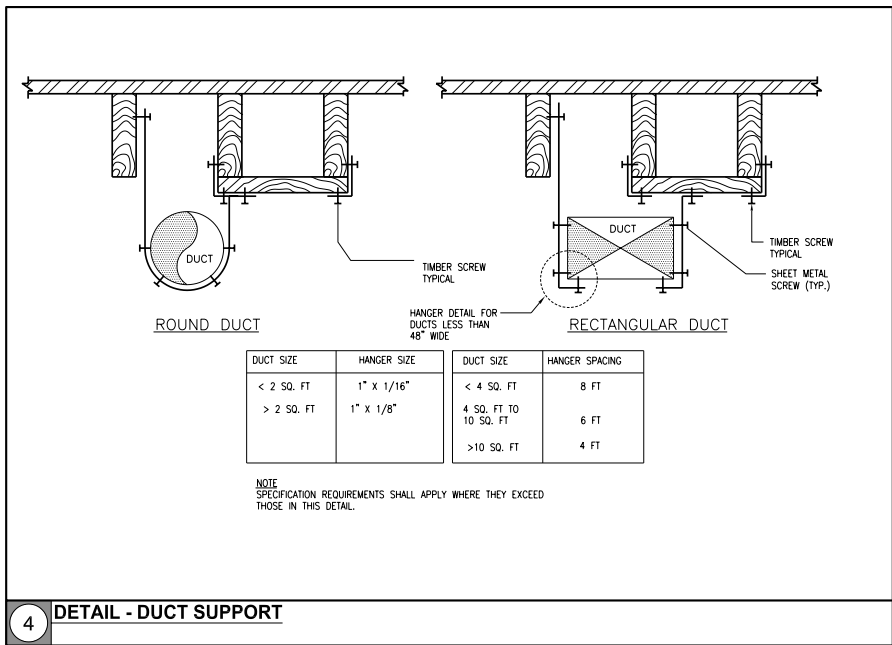
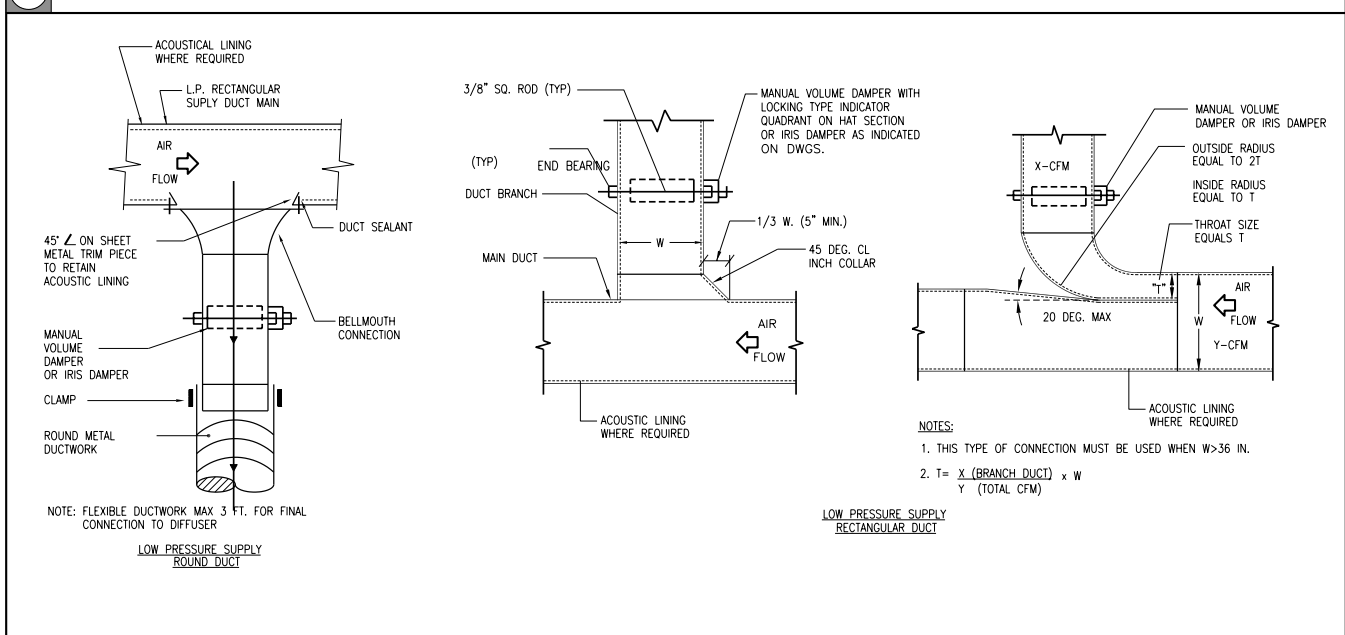
AIR SEPARATOR SCHEDULE									
ITEM	MANUFACTURER	MODEL NO.	SYSTEM SERVING	PIPE SIZE INCH	MAX. INLET PRESSURE PSIG	MAX. WORKING PRESSURE PSIG	OPERATING FLOW GPM	SHIPPING WT LBS	NOTES
AS-1	TACO	49025AD	HOT WATER	2½"	30	125	70	60	FLANGED CONNECTIONS

EXPANSION TANK SCHEDULE													
TAG	MANUFACTURER	MODEL NO.	LOCATION	SYSTEM SERVED	MIN ACCEPTANCE VOLUME GALLONS	EXPANSION VOLUME WATER GALLONS	HEIGHT IN	DIA. IN	MINIMUM CHARGE PRESSURE PSIG	MAXIMUM UNIT PRESSURE PSIG	SYSTEM OPERATING TEMP. (°F)	SHIPPING WEIGHT LBS	NOTES
ET-1	AMTROL	300-L	BOILER ROOM	HOT WATER	80	80	52	24"	12	30	180	268	ASME RATED

PROGRESS SET 05.13.2009

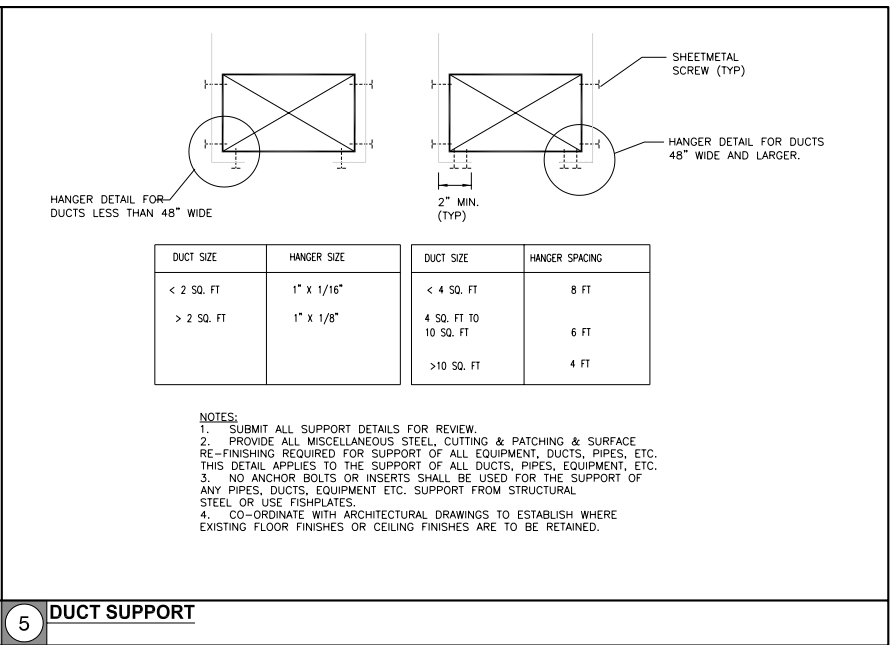
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1 BRANCH DUCT CONNECTION SUPPLY DETAIL

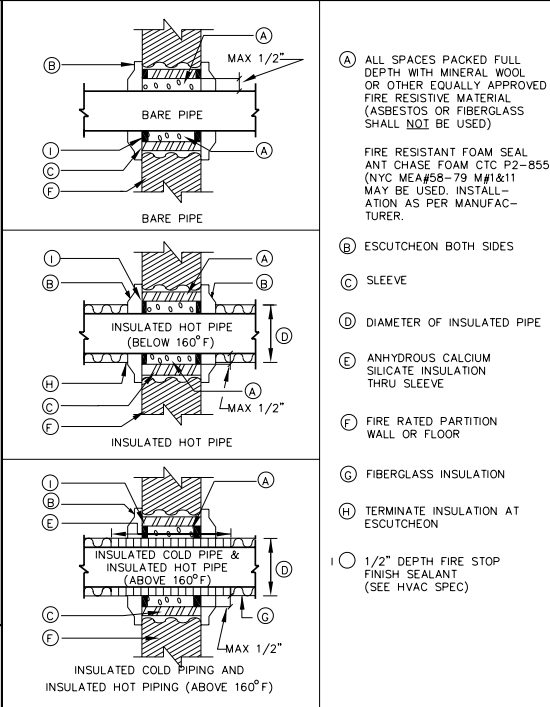


4 DETAIL - DUCT SUPPORT

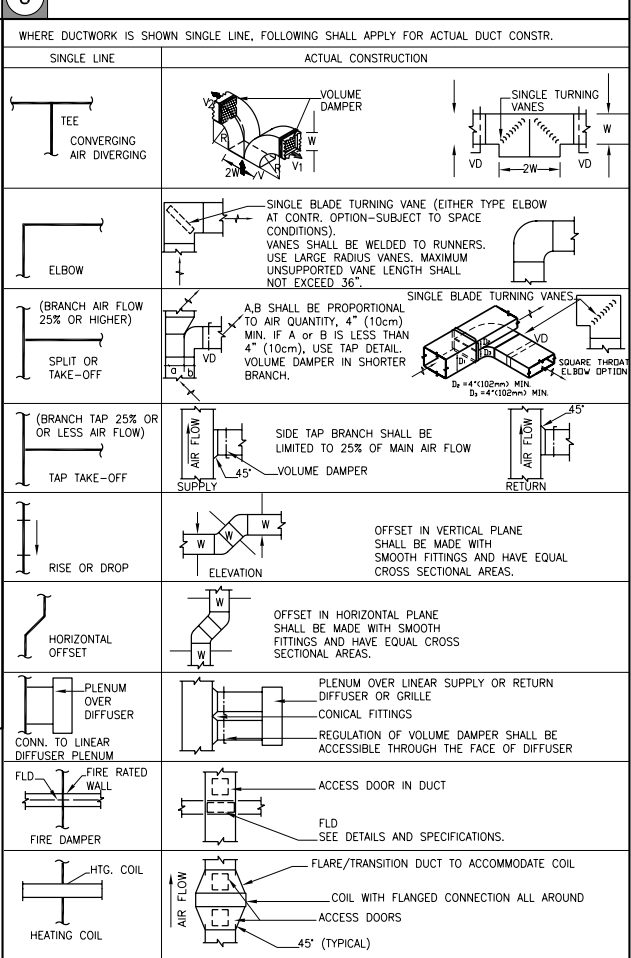
5 DUCT SUPPORT



2 DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS

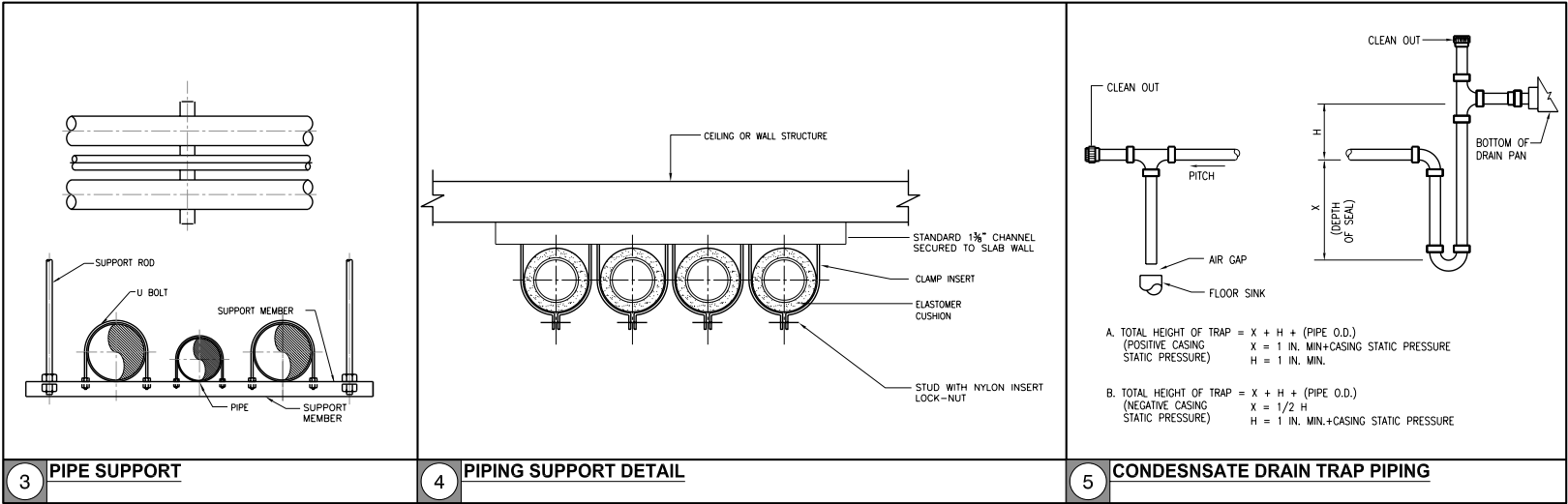
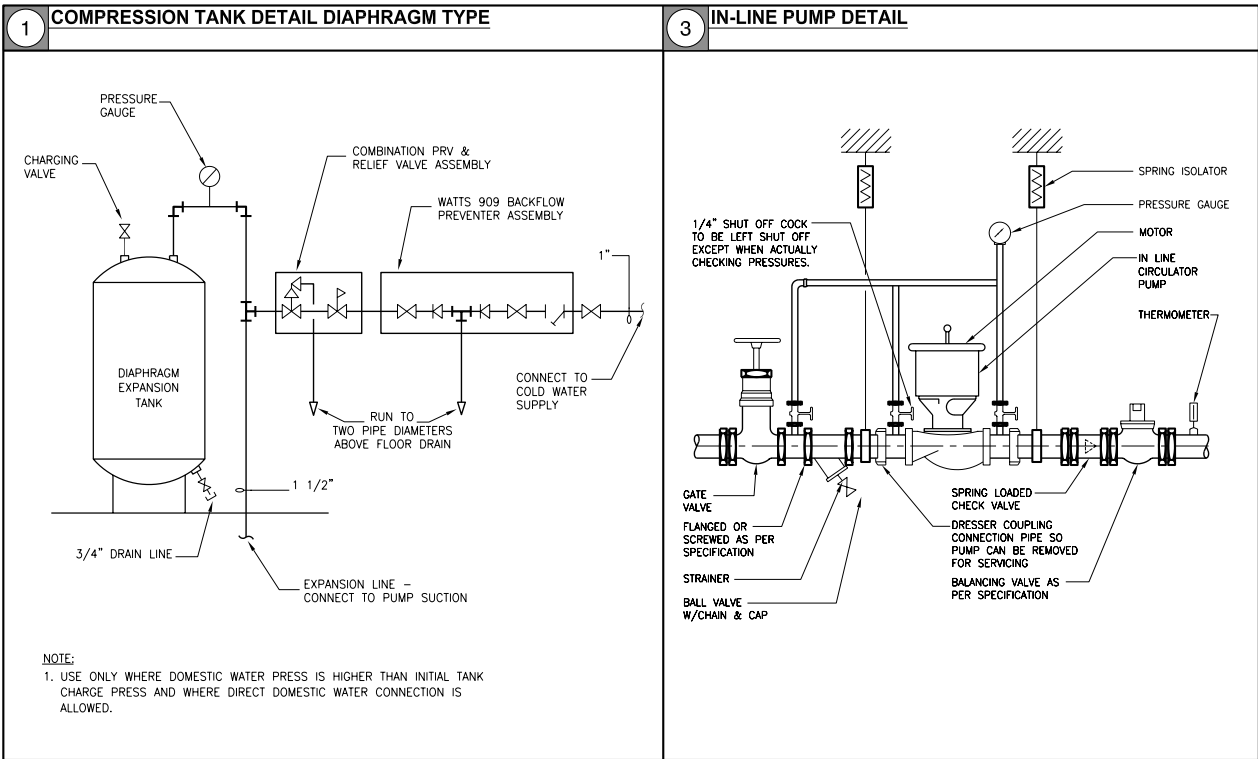


3 INTERPRETATION OF SINGLE LINE DUCTWORK
























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			SHEET X OF X






















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





DESIGNED: X	SUB SHEET NO.	TITLE OF SHEET MECHANICAL DETAILS	DRAWING NO. _____
TECH. REVIEW: X	M3.2	SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	PMIS/PKG NO. _____
DATE: 05/13/09			SHEET X OF X

WIRING DEVICES	
SYMBOL	DESCRIPTION
	20A SPST TOGGLE SWITCH U.O.N. - 'g' DENOTES LIGHTING FIXTURE CONTROLLED (TYPICAL FOR ALL SWITCHES)
	3-WAY SWITCH
	4-WAY SWITCH
	WALL DIMMER SWITCH - RATED FOR 1500 WATTS UNLESS OTHERWISE NOTED
	WALL MOUNTED SIMPLEX RECEPTACLE, 20A,125V, 2P, 3W (GROUNDED) NEMA CONFIG. 5-20R
	WALL MOUNTED DUPLEX RECEPTACLE, 20A,125V, 2P, 3W (GROUNDED) NEMA CONFIG. 5-20R
	WALL MOUNTED DOUBLE DUPLEX RECEPTACLE IN 2 GANG BOX, 20A,125V,2P, 3W (GROUNDED) NEMA CONFIG. 5-20R
	FLOOR MOUNTED SIMPLEX RECEPTACLE, 20A,125V, 2P,3W (GROUNDED) NEMA CONFIG. 5-20R
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A,125V, 2P, 3W (GROUNDED) NEMA CONFIG. 5-20R
 or 	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE IN 2 GANG BOX, 20A, 125V,2P, 3W (GROUNDED) NEMA CONFIG. 5-20R IG - DENOTES RECEPTACLE TO BE PROVIDED WITH ISOLATED GND.
	WALL MOUNTED SIMPLEX RECEPTACLE, 125V, 2P, 3W (GROUNDED) LETTER DENOTES AMPERE RATING: A - (30A) NEMA CONFIG 5-30R
	DUPLEX RECEPTACLE MOUNTED IN SERVICE FITTING SECURED TO FLOOR BOX
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A,125V, 2P, 3W (GROUNDED) NEMA CONFIG. 5-20R
	CEILING/WALL MOUNTED OUTLET TYPE JUNCTION BOX
	UON, FLOOR BOX CONSISTING OF THREE(3) DUPLEX RECEPTACLES AND TELECOMMUNICATION SYSTEM OUTLETS. THE BOX SHALL BE BY FSR, FL SERIES OR APPROVED EQUAL.
	UON, CEILING MOUNTED RECEPTACLE CONSISTING OF THREE(3) DUPLEX RECEPTACLES AND TELECOMMUNICATION SYSTEM OUTLETS. THE BOX SHALL BE BY FSR, FL SERIES OR APPROVED EQUAL.
	FLOOR BOX CONSISTING OF THREE(3) DUPLEX RECEPTACLES. THE BOX SHALL BE BY FSR, FL SERIES OR APPROVED EQUAL.
	CEILING MOUNTED RECEPTACLE CONSISTING OF THREE(3) DUPLEX RECEPTACLES. THE BOX SHALL BE BY FSR, FL SERIES OR APPROVED EQUAL.
	FLOOR JUNCTION BOX
	CONDUIT STUBBED UP FROM FLOOR

REFER TO DWG E-0.2 FOR
GENERAL NOTES

POWER	
SYMBOL	DESCRIPTION
	COMBINATION MOTOR STARTER NUMERAL DENOTES NEMA SIZE: - 'A' DENOTES SWITCH/CIRCUIT BREAKER RATING - 'B' DENOTES FUSE SIZE/TRIP RATING
	MOTOR IN MECHANICAL SYSTEM EQUIPMENT
	FUSED DISCONNECT SWITCH: - 'A' DENOTES SWITCH SIZE - 'B' DENOTES FUSE SIZE IF INDICATED
	VARIABLE FREQUENCY DRIVE
	UNFUSED DISCONNECT SWITCH. RATING SAME AS UPSTREAM BRANCH CIRCUIT PROTECTIVE DEVICE.
	CIRCUIT BREAKER IN NEMA 1 ENCLOSURE: - 'A' DENOTES FRAME - 'B' DENOTES TRIP SETTING.
	METERING AND CURRENT/POTENTIAL TRANSFORMER AS REQUIRED
PANELBOARD AND CABINETS	
SYMBOL	DESCRIPTION
	LIGHTING AND APPLIANCE PANELBOARD
	POWER OR DISTRIBUTION PANELBOARD
EQUIPMENT IDENTIFICATION	
SYMBOL	DESCRIPTION
APL	208/120V LIGHTING AND APPLIANCE PANEL
PP	208/120V POWER AND DISTRIBUTION PANEL
	EQUIPMENT LEGEND SYMBOL - 'A' DENOTES EQUIPMENT NAME TAG - 'B' DENOTES EQUIPMENT LEGEND SYMBOL NUMBER
CABLES & CONDUIT SYSTEMS	
SYMBOL	DESCRIPTION
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB WITH WIRE PULL AND CAP
	PULLBOX OR JUNCTION BOX LARGE CUSTOM FABRICATED TYPES
	CONCRETE ENCASED UNDER GROUND/UNDER SLAB CONDUIT DUCT BANK
	CONDUIT BANK
	CONDUIT BANK UP
	CONDUIT BANK DOWN
MISCELLANEOUS	
	LINE TYPE REPRESENTING NEW ELECTRICAL SYSTEM EQUIPMENT, DEVICE, FEEDER ETC.
	U.O.N., LINE TYPE REPRESENTING EXISTING ELECTRICAL SYSTEM EQUIPMENT, DEVICE, FEEDER ETC. TO REMAIN.
	LINE TYPE REPRESENTING EXISTING ELECTRICAL SYSTEM EQUIPMENT, DEVICE, FEEDER ETC. TO BE REMOVED.
E	SUBSCRIPT 'E' DENOTES EXISTING EQUIPMENT
ER	SUBSCRIPT 'ER' DENOTES EXISTING EQUIPMENT TO BE RELOCATED
R	SUBSCRIPT 'R' DENOTES EXISTING EQUIPMENT RELOCATED

EXIT SIGNS		
SYMBOL	DESCRIPTION	NOTES
	WALL MOUNTED EXIT SIGN	APPLICATION OF SHADED QUADRANTS AND ARROWS THUS:  PA INDICATE LETTERED FACE AND DIREC- TIONAL ARROWS AT SYMBOLS FOR SIGNS FOR WHICH SELECTION OF SUCH FEATURES IS REQUIRED. SUBSCRIPT DESIGNATIONS 'PA' INDICATE EXIT SIGN TYPE REFERENCES TO LIGHTING FIXTURE LIST.
	CEILING MOUNTED EXIT SIGN	
LIGHTING FIXTURES		
 FLUORESCENT FIXTURE - "PA-1" DENOTES FIXTURE TYPE - "b" DENOTES CONTROL ZONE - "EM" DENOTES EMERGENCY LIGHT FIXTURE - "1" DENOTES CIRCUIT NUMBER		

ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A, AMP	AMPERE	MIC	MICROPHONE
AIC	AMPS INTERRUPTING CAPACITY	MIN	MINIMUM
AC	ALTERNATING CURRENT	MS	MAIN SWITCHBOARD
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AP	APPLIANCE PANEL	MISC	MISCELLANEOUS
ATS	AUTOMATIC TRANSFER SWITCH	MMV	MEDIUM VOLTAGE
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
BMS	BUILDING MANAGEMENT SYSTEM	N	NEUTRAL
BFG	BELOW FINISHED GRADE	N/A	NOT APPLICABLE
C, CDT	CONDUIT	NEMA	NATIONAL ELECT. MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NL	ON NIGHT LIGHTING CIRCUIT
CLS	CLOSET	NTS	NOT TO SCALE
CS	CABLE SUPPORT	OC	ON CENTER
DC	DIRECT CURRENT	OCD	OVERCURRENT DEVICE
EC	EMPTY CONDUIT	OL	OVERLOAD
EM	ON EMERGENCY CIRCUIT	P	POLES
EMT	ELECTRICAL METALLIC TUBING	PB	PULL BOX
EL	ELEVATION	PF	POWER FACTOR
ELEC	ELECTRIC	PFC	POWER FACTOR CORRECTION
ELEV	ELEVATOR	PH, Ø	PHASE
EP	EXPLOSION PROOF	PNL	PANEL
EQPM	EQUIPMENT	PVC	POLYVINYL CHLORIDE
EXIST	EXISTING	PWR	POWER
FDR	FEEDER	RC	REMOTE CONTROL
FIN	FINISH	REC	RECEPTACLE
FIXT	FIXTURE	REQ	REQUIRED
FLUOR	FLUORESCENT	RM	ROOM
FA	FIRE ALARM	RMS	ROOT MEAN SQUARE
FLA	FULL LOAD AMPS	SPECS	SPECIFICATIONS
FSD	FIRE SMOKE DAMPER	SPDT	SINGLE POLE DOUBLE THROW
FT	FEET	SPKLR	SPRINKLER
GA	GAUGE	SPKR	SPEAKER
GALV	GALVANIZED	SQ	SQUARE
G, GRD	GROUND	STD	STANDARD
GFI	GROUND FAULT INTERRUPTER	SPST	SINGLE POLE SINGLE THROW
HGT	HEIGHT	SURF	SURFACE
HID	HIGH INTENSITY DISCHARGE	SYM	SYMMETRICAL
HOA	HAND-OFF-AUTOMATIC	SW	SWITCH
HP	HORSE POWER	SWBD	SWITCHBOARD
HTG	HEATING	SWGR	SWITCHGEAR
HVAC	HEATING VENTILATING AND AIR CONDITIONING	TC	TERMINAL CABINET
IG	ISOLATED GROUND	TEL	TELEPHONE
IN	INCHES	TELCO	TELEPHONE CO.
J, JB	JUNCTION BOX	TYP	TYPICAL
KWH	KILOWATT HOURS	TV	TELEVISION
KVA	KILO VOLT- AMPERE	UG	UNDERGROUND
KW	KILO WATT	UON	UNLESS OTHERWISE NOTED
LC	LOCK & COVER	UPS	UNINTERRUPTIBLE POWER SUPPLY
LP	LIGHTING PANEL	US	UNIT SUBSTATION
LTO	LIGHTING	UNF	UNFUSED
LV	LOW VOLTAGE	V	VOLT
LVR	LOW VOLTAGE RELAY	VA	VOLT-AMPERES
MA	MILLIAMPS	VENT	VENTILATING
MCC	MOTOR CONTROL CENTER	VT	VAPORTIGHT
MCM	THOUSAND CIRCULAR CENTER	W	WATT
MCP	MOTOR CONTROL PANEL	WP	WEATHERPROOF
MECH	MECHANICAL	WT	WIRING TROUGH
MER	MECHANICAL EQUIPMENT ROOM	XFMR	TRANSFORMER
MFCR	MANUFACTURER	XP	EXPLOSION PROOF

GENERAL NOTES:

A. EXISTING PREMISES

1. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO SUBMISSION OF A BID PROPOSAL. CONTRACTOR SHALL BE ACQUAINTED WITH THE EXISTING ELECTRICAL INSTALLATIONS.

B. MISCELLANEOUS ELECTRICAL SYSTEMS

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NEC AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT CUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN.
3. WHERE WIRE SIZES ARE INDICATED ON PLANS FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
4. ALL JUNCTION BOXES AND PULL BOXES SHALL BE OF CODE GAUGE AND OF THE REQUIRED SIZE TO ACCOMMODATE NUMBER OF CONDUCTORS SHOWN.
5. ALL PULL BOXES IN FINISHED AREAS SHALL HAVE FACTORY APPLIED PRIME COAT OF PAINT.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATION, QUANTITIES, AND POWER REQUIREMENTS OF ALL MECHANICAL, PLUMBING AND ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
7. ALL PANELBOARDS SHALL HAVE DOOR IN DOOR COVER AND BE KEPT ALIVE UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL ENSURE WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
9. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO INDICATE THE GENERAL LOCATION OF EQUIPMENT AND WIRING. THE EXACT LOCATION OF FINAL LOCATION OF OUTLETS AND EQUIPMENT SHALL BE AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE. PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGeways VERIFY LOCATIONS AND QUANTITY OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS OR INTERIOR DETAILS. IN CENTERING OUTLETS AND LOCATING BOXES OR OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PAINTING, HUNG CEILING, ETC., AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
10. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED.
11. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS, AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGES. VERIFY FINAL LOCATIONS WITH THE ARCHITECT PRIOR TO ANY WORK.
12. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL, OUTLET BOXES FOR SWITCHES, FIRE ALARM DEVICES, RECEPTACLES, ETC. WITH CABINETS ETC. TO AVOID CONFLICT, FINAL LOCATIONS AND MOUNTING HEIGHT TO BE COORDINATED WITH THE ARCHITECT.
13. WHERE ELECTRIC MOTORS, HEATERS, ETC. ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
14. EXPOSED RACEWAYS (WHEN REQUIRED OR ALLOWED FOR INSTALLATION BY THE ARCHITECT AND OWNER) SHALL BE RUN PARALLEL WITH/OR AT RIGHT ANGLES TO WALLS.
15. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
16. FURNISH FISH WIRE IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
17. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, UNLESS OTHERWISE INDICATED.
18. PROVIDE PULL BOXES AND CABLE SUPPORT BOXES AS REQUIRED BY CODES AND INDUSTRY STANDARDS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT.
19. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES. REQUIREMENTS FOR CONTROL PANELS, SWITCHES, CONDUITS, MOTORS, PAPERLESS RELAYS, ETC. CONTRACTOR SHALL VERIFY FINAL CONTROL, WIRING REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.
20. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE.
21. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK TO BACK.
22. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE.
23. IF THERE IS A DISCREPANCY BETWEEN THE DRAWINGS, PLANS, NOTES AND SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY.
24. FINAL LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT.
25. FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON ARCHITECTURAL, HVAC, PLUMBING AND/OR ELECTRICAL DRAWINGS. COORDINATE WITH OTHER TRADES FOR DETAILS OF INSTALLATION AND WIRING REQUIREMENTS. THE TERM "WIRING" AS USED HEREIN SHALL INCLUDE FURNISHING AND INSTALLING CONDUIT, WIRES, JUNCTION/OUTLET BOXES, DISCONNECTS, OVERCURRENT PROTECTION AND FINAL CONNECTIONS. COORDINATE FINAL CONDUCTOR SIZES, QUANTITIES, VOLTAGE, AND WIRING METHODS WITH MECHANICAL TRADE PRIOR TO ANY WORK. PROVIDE ALL MINOR ADJUSTMENTS TO WIRING REQUIREMENTS NECESSARY TO ACCOMMODATE ACTUAL FURNISHED EQUIPMENT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.
26. ALL WORK SHOWN ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR, UNLESS OTHERWISE INDICATED.
27. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTION TO EQUIPMENT TERMINALS, IF NOT AN INTEGRAL PART OF THE EQUIPMENT, AND SPLICES SHALL BE BY MEANS OF APPROVED COMPRESSION TYPE COPPER CONNECTORS.
28. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND LOCATION OF LIGHT FIXTURES ON PLAN. SEE ARCHITECTURAL DRAWINGS FOR EXACT QUANTITY, MOUNTING ARRANGEMENTS & LOCATIONS OF LIGHTING FIXTURES.

C. MISCELLANEOUS LOW VOLTAGE SYSTEMS:

1. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING EMPTY CONDUITS, RACEWAYS, BOXES, ETC. FOR VARIOUS LOW VOLTAGE SYSTEMS SUCH AS:
 - A. TELECOMMUNICATION
 - B. CABLE TV
 - C. SECURITY
 - D. INTERCOM
 - E. OTHER SYSTEMS AS REQUIRED.
- SPECIFIC REQUIREMENTS OF EACH SYSTEM SHALL BE AS OUTLINED IN RELEVANT LOW VOLTAGE SYSTEM CONTRACT DOCUMENTS.
2. ALL THE ABOVE SYSTEMS CENTRAL EQUIPMENT, DEVICES AND VARIOUS COMPONENTS, WIRING AND CONNECTIONS ARE FURNISHED AND INSTALLED SEPARATE FROM ELECTRICAL WORK.
 3. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER CIRCUITRY AS REQUIRED FOR CENTRAL EQUIPMENT AND DEVICES -- FINAL LOCATIONS AND POWER REQUIREMENTS FOR THESE ITEMS SHALL BE COORDINATED WITH RESPECTIVE CONSULTANTS AND ARCHITECT.

D. LIGHTING SYSTEM:

1. PROVIDE LIGHTING FIXTURES, EXIT SIGNS, LIGHT SWITCHES AND OTHER DEVICES AND EQUIPMENT FOR LIGHTING AND LIGHTING CONTROL. SYSTEMS AS REQUIRED. FINAL LOCATIONS, TYPES AND QUANTITIES OF ALL LIGHTING SYSTEM FIXTURES, EQUIPMENT AND CONTROL DEVICES AND EQUIPMENT SHALL BE AS REQUIRED BY THE LIGHTING CONSULTANT AND ARCHITECT.
2. ALL FLOUORESCENT FIXTURES SHALL BE EQUIPPED WITH ENERGY EFFICIENT
3. DIMMERS AND ELECTRONIC BALLASTS OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG-TYPE BOX UNDER ONE COVER PLATE.
4. PROVIDE GROUND WIRE WITH ALL FLEXIBLE CONDUIT CONNECTION TO EACH LIGHTING FIXTURE.
5. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG-TYPE BOX UNDER ONE COVER PLATE.
6. PROVIDE GROUND WIRE WITH ALL FLEXIBLE CONDUIT CONNECTION TO EACH LIGHTING FIXTURE.
7. LIGHTING CIRCUITRY GROUND RULES:
 - A. BRANCH CIRCUITING SHALL BE IN ACCORDANCE WITH CONTROL SCHEME AS SHOWN ON PLANS.
 - B. MINIMUM SIZE OF BRANCH CIRCUIT WIRE SHALL BE 12 AWG.
 - C. PROVIDE LOCATION AND MOUNTING OF CONTROL DEVICES (SWITCHES, SENSORS) WITH ARCHITECT.
 - D. DIMMING AND LIGHTING CONTROL REQUIREMENTS SHALL BE COORDINATED WITH LIGHTING CONSULTANT AND ARCHITECT.
8. SEE SPECIFICATIONS FOR LIGHTING FIXTURE DESCRIPTIONS AND LAMPING.
9. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND DETAILS TO CONFIRM EXACT QUANTITIES AND LOCATIONS OF ALL FIXTURES AND MOUNTING.
10. ALL DIMMED FLOUORESCENT FIXTURES SHALL BE PROVIDED WITH COMPATIBLE DIMMING BALLASTS.

E. GROUNDING SYSTEM

1. PROVIDE COMPLETE POWER SYSTEM GROUNDING IN COMPLIANCE WITH GROUNDING SPECIFICATIONS AND THE NEC.
2. UTILIZE A SEPARATE INSULATED CONDUCTOR AS THE EQUIPMENT GROUNDING CONDUCTOR FOR ALL POWER SYSTEM CIRCUITS AS REQUIRED.
3. THE GROUNDING SYSTEM SHALL CONSIST OF CONDUCTORS, CONNECTORS AND ALL OTHER NECESSARY EQUIPMENT REQUIRED TO PROVIDE A COMPLETE GROUND SYSTEM FOR ELECTRICAL WORK. THE GROUND SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. THE GROUNDING CONDUCTOR SHALL BE SIZED EQUAL TO THE PHASE CABLE AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC AND THE AUTHORITY HAVING JURISDICTION.
5. ALL GROUNDING CONNECTIONS WITHIN BUILDING SHALL BE ACCESSIBLE FOR PERIODIC FUTURE INSPECTIONS AND SHALL ALSO BE MADE USING SOLDERLESS CONNECTORS AS HEREIN SPECIFIED.
6. LENGTH OF GROUNDING CONDUCTORS OR JUMPEES SHALL BE KEPT AT A MINIMUM.
7. BOLTED CONNECTIONS SHALL BE OF THE MULTIPLE BOLT-TYPE, BOLTS, WASHERS AND STOP NUTS SHALL BE OF THE HIGH COPPER ALLOY EXENDUR, DILUMIN, DILUMINIZE OR SILICON BRONZE. FERROUS HARDWARE WILL NOT BE ACCEPTABLE.

DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
CD		ELECTRICAL	—

GENERAL NOISES

EO.2

PROGRESS SET 05.13.2009

SAGAMORE HILL NATIONAL HISTORIC SITE
OYSTER BAY, NEW YORK

SHEET

 X OF X

7. THE REMOVAL OF ALL LOW VOLTAGE SYSTEMS (TELECOMMUNICATION, SECURITY, ETC.) SHALL BE IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN RESPECTIVE CONTRACT DOCUMENTS AND COORDINATED WITH THE APPROPRIATE BUILDING OPERATING PERSONNEL.

DESIGNED:	SUB SHEET NO.	TITLE OF SHEET
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	ELECTRICAL
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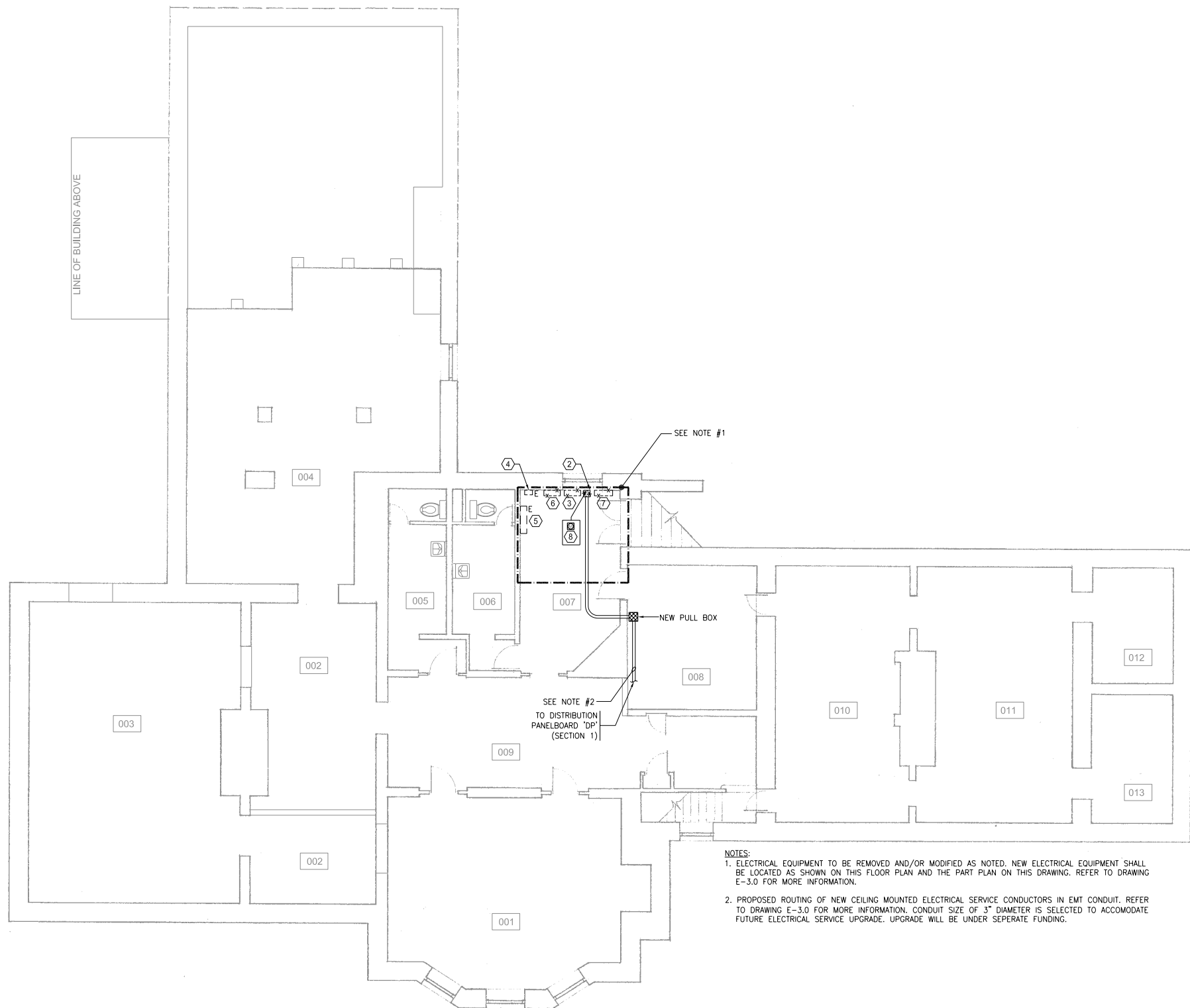
CD _____ E02 GENERAL NOTES

DATE: _____

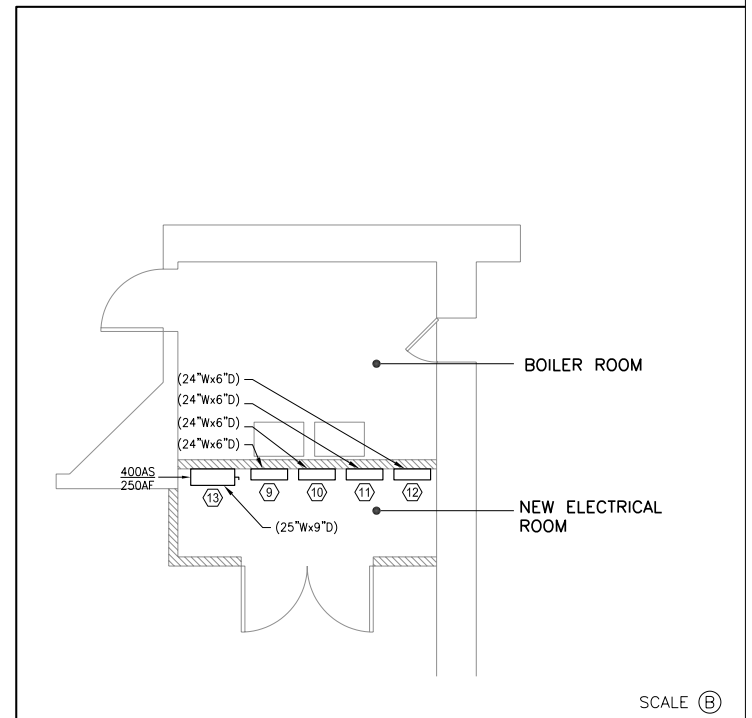
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SAGAMORE HILL NATIONAL HISTORIC SITE

05/13/09		OYSTER BAY, NEW YORK
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NOTES:
1. ELECTRICAL EQUIPMENT TO BE REMOVED AND/OR MODIFIED AS NOTED. NEW ELECTRICAL EQUIPMENT SHALL BE LOCATED AS SHOWN ON THIS FLOOR PLAN AND THE PART PLAN ON THIS DRAWING. REFER TO DRAWING E-3.0 FOR MORE INFORMATION.
2. PROPOSED ROUTING OF NEW CEILING MOUNTED ELECTRICAL SERVICE CONDUCTORS IN EMT CONDUIT. REFER TO DRAWING E-3.0 FOR MORE INFORMATION. CONDUIT SIZE OF 3" DIAMETER IS SELECTED TO ACCOMMODATE FUTURE ELECTRICAL SERVICE UPGRADE. UPGRADE WILL BE UNDER SEPERATE FUNDING.



(A) : CHIMNEY DESIGNATION

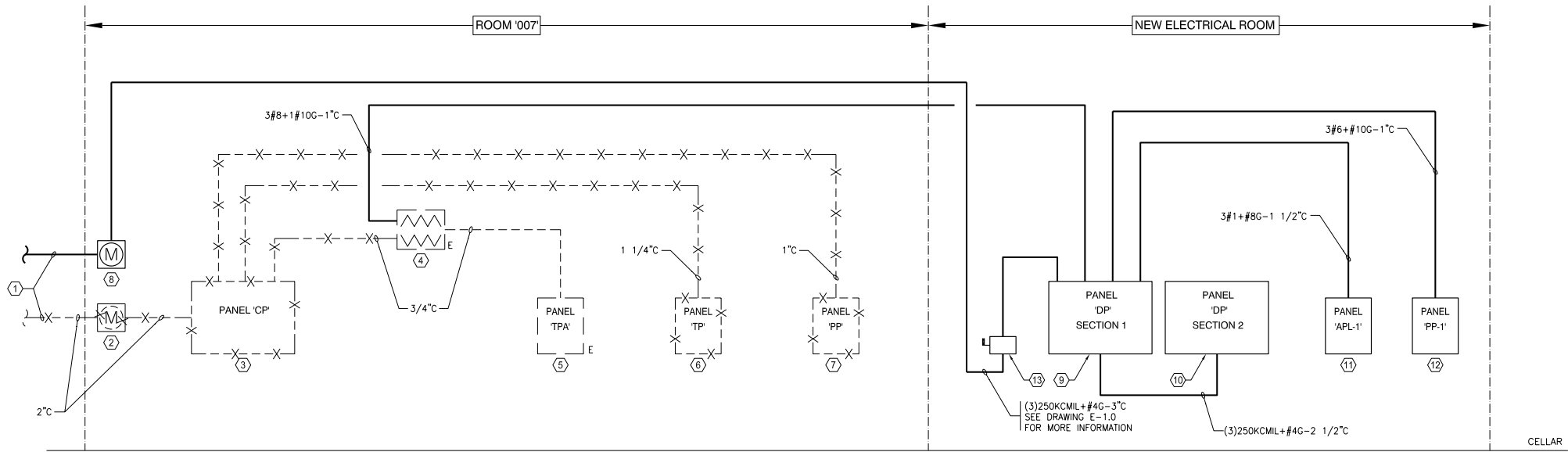


SCALE (A) 4 0 4 8 12 3/16" = 1'-0"
SCALE OF FEET

SCALE (B) 4 0 4 8 1/4" = 1'-0"
SCALE OF FEET

PROGRESS SET 05.13.2009

DESIGNED: CD CD TECH. REVIEW: DATE: 05/13/09	SUB SHEET NO. E1.0	TITLE OF SHEET ELECTRICAL PLAN BASEMENT SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	DRAWING NO. _____ PMIS/PKG NO. SHEET X OF X
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RISER LEGEND	
1	INCOMING ELECTRICAL SERVICE. L.I.P.A. SERVICE FEEDER TO BE MODIFIED AS REQUIRED BY L.I.P.A.. THE FINAL ELECTRICAL SERVICE ARRANGEMENTS INCLUDING BUT NOT LIMITED TO MODIFICATION OF SERVICE FEEDER, METERING, ETC. SHALL BE COORDINATED WITH L.I.P.A.
2	EXISTING UTILITY SERVICE METER TO BE REMOVED
3	EXISTING 200A M.C.B., 120/240V, 3-WIRE, 1 PHASE, 42 POLE MAIN DISTRIBUTION PANELBOARD TO BE REMOVED
4	EXISTING TRANSFORMER TO REMAIN
5	EXISTING 60A M.C.B., 120/240V, 3-WIRE, 1 PHASE, 24 POLE PANELBOARD TO REMAIN FEEDING EXISTING LOW VOLTAGE LIGHTING AND RECEPTACLE LOADS
6	EXISTING 225A M.L.O., 120/240V, 3-WIRE, 1 PHASE, 42 POLE LIGHTING AND APPLIANCE PANELBOARD TO BE REMOVED
7	EXISTING 100A M.L.O., 120/240V, 3-WIRE, 1 PHASE, 12 POLE PANELBOARD TO BE REMOVED
8	NEW UTILITY SERVICE METER
9	NEW 400A M.L.O., 240/120V, 1 PHASE, 3W+G, DISTRIBUTION PANELBOARD (SECTION 1) WITH FEED-THRU LUGS FOR ADDITIONAL SECTION
10	NEW 400A M.L.O., 240/120V, 1 PHASE, 3W+G, DISTRIBUTION PANELBOARD (SECTION 2)
11	NEW 225A M.L.O., 120/240V, 3-WIRE, 1 PHASE, 36 POLE LIGHTING AND APPLIANCE PANELBOARD
12	NEW 100A M.L.O., 120/240V, 3-WIRE, 1 PHASE, 18 POLE POWER PANEL FOR EXISTING HVAC LOADS
13	NEW 400AS/250AF, 120/240V, 1 PHASE, 3 WIRE GENERAL DUTY SAFETY SWITCH SUITABLE FOR USE AS SERVICE EQUIPMENT

- NOTES:
1. THE FINAL ELECTRICAL SERVICE ARRANGEMENTS INCLUDING BUT NOT LIMITED TO SPlicing, SERVICE END BOX, CT CABINET, UTILITY METERING, ETC. SHALL BE COORDINATED WITH L.I.P.A..
 2. EACH NEW PANELBOARD SHALL HAVE A GROUND BUS.
 3. REFER TO HVAC AND PLUMBING DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING FINAL LOCATIONS AND SIZES OF MOTORS AND OTHER MECHANICAL EQUIPMENT.
 4. PROVIDE CABLE SUPPORT BOXES AS REQUIRED.
 5. UNLESS OTHERWISE NOTED, ALL TAPS SHALL NOT EXCEED 10 FEET.
 6. SPARES AND SPACES SHALL BE INCLUDED AS FOLLOWS:
 - MINIMUM OF 15% SPARE SPACES (WITH BUS)
 - 25% SPARE DEVICES.
 7. REPLACE EXISTING PANELS AS REQUIRED FOR CONNECTION OF NEW BRANCH CIRCUITS AND EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN. PROVIDE NEW BRANCH CIRCUIT BREAKERS AS REQUIRED FOR NEW AND EXISTING BRANCH CIRCUITS. PROVIDE PANEL DIRECTORIES AS REQUIRED.

PROGRESS SET 05.13.2009

DESIGNED: CD CD TECH. REVIEW:	SUB SHEET NO. E3.0	TITLE OF SHEET ELECTRICAL POWER RISER DIAGRAM SAGAMORE HILL NATIONAL HISTORIC SITE OYSTER BAY, NEW YORK	DRAWING NO. _____ PMIS/PKG NO. SHEET X OF X
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PANEL: DP (SECTION 1)
VOLTS: 120/240V, 1 PH, 3W+G
BUS RATING: 400A
MAIN : M.L.O.
MOUNTING: SURFACE

OPTIONS:
X GROUND BUS
X 100% NEUTRAL BUS

#	POLE	TRIP	LOAD DESCRIPTION	Aø	Bø	LOAD DESCRIPTION	TRIP	POLE	#
1	1	20		•			20	1	2
3	1	20			•		20	1	4
5	1	20		•			20	1	6
7	1	20			•		20	1	8
9	1	20		•			20	1	10
11	1	20			•		20	1	12
13	1	20		•			20	1	14
15	1	20			•		20	1	16
17	1	20		•			20	1	18
19	1	20			•		20	1	20
21	1	20		•			20	1	22
23	1	20			•		20	1	24
25	1	20		•			20	1	26
27	1	20			•		20	1	28
29	1	20		•			20	1	30
31	2	45			•		100	2	32
33	2			•					34
35	2	20			•		50	2	36
37				•					38
39					•				40
41				•					42

PANEL: DP (SECTION 2)
VOLTS: 120/240V, 1 PH, 3W+G
BUS RATING: 400A
MAIN : M.L.O.
MOUNTING: SURFACE

OPTIONS:
X GROUND BUS
X 100% NEUTRAL BUS

#	POLE	TRIP	LOAD DESCRIPTION	Aø	Bø	LOAD DESCRIPTION	TRIP	POLE	#
1	1			•					2
3					•				4
5				•					6
7					•				8
9				•					10
11					•				12
13				•					14
15					•				16
17				•					18
19					•				20
21				•					22
23					•				24
25				•					26
27					•				28
29				•					30
31					•				32
33				•					34
35					•				36
37				•					38
39					•				40
41				•					42

PANEL: APL-1
VOLTS: 120/240V
BUS RATING: 225A
MAIN : M.L.O.
MOUNTING: SURFACE

OPTIONS:
X GROUND BUS
X 100% NEUTRAL BUS

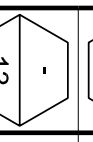
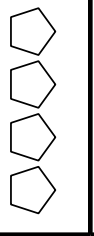

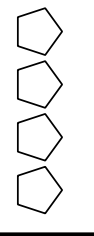

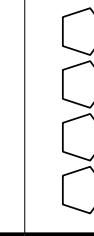

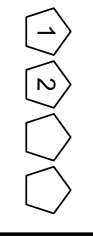


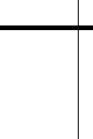
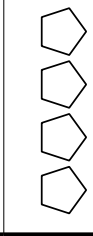

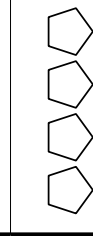

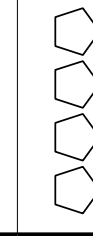
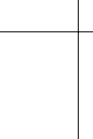
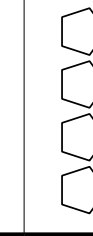

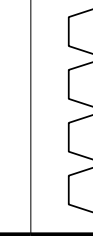
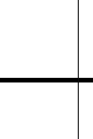
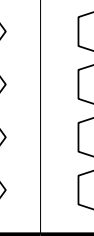

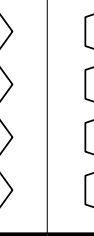

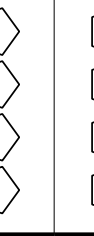
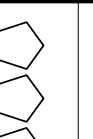
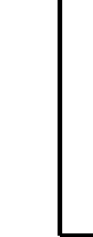
#	POLE	TRIP	LOAD DESCRIPTION	Aø	Bø	LOAD DESCRIPTION	TRIP	POLE	#
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3	1	20			•		20	1	4
5	1	20		•			20	1	6
7	1	20			•		20	1	8
9	1	20		•			20	1	10
11	1	20			•		20	1	12
13	1	20		•			20	1	14
15	1	20			•		20	1	16
17	1	20		•			20	1	18
19	1	20			•		20	1	20
21	1	20		•			20	1	22
23	1	20			•		20	1	24
25	1	20		•			20	1	26
27	1	20			•		20	1	28
29	1	20		•			20	1	30
31	1	20			•		20	1	32
33	1	20		•			20	1	34
35	1	20			•		20	1	36

PANEL: PR-1
VOLTS: 120/240V
BUS RATING: 100A
MAIN : M.L.O.
MOUNTING: SURFACE

OPTIONS:
X GROUND BUS
X 100% NEUTRAL BUS

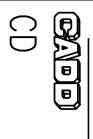
#	POLE	TRIP	LOAD DESCRIPTION	Aø	Bø	LOAD DESCRIPTION	TRIP	POLE	#
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3	1	20			•		20	1	4
5	1	20		•			20	1	6
7	2	20			•		30	2	8
9	2			•					10
11	2	30			•		20	1	12
13	1	20		•			20	1	14
15	1	20			•		20	1	16
17	1	20		•			20	1	18

EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	ELECTRICAL POWER REQUIREMENTS					CONDUIT AND WIRE SIZE	NOTES
		KW	KVA	HP	AMPS	VOLTS	OUTLET # OF AMPS PHASES	
	AIR HANDLING UNIT					240	1	
	AIR HANDLING UNIT					240	1	
	BOILER					120	1	
	BOILER					120	1	
	PUMP			1/8		120	1	
	PUMP			1/8		120	1	
	PUMP			1		240	1	
								
								
								
								
								
								
								

EQUIPMENT LEGEND NOTES

- EXTEND INDICATED POWER CIRCUIT AND CONNECT SAME TO LINE TERMINALS OF THE EQUIPMENT-- THE FINAL PORTION (NOT TO EXCEED 48" IN LENGTH) SHALL BE WITH FLEXIBLE METALIC CONDUIT
- PROVIDE DISCONNECT MEANS WITH CONNECTIONS AS REQUIRED TO INTERPOSE SAME BETWEEN TERMINATION OF BUILDING WIRING AND LINE TERMINALS OF UNIT--TYPE OF DISCONNECT MEANS AND MOUNTING LOCATION TO BE IN ACCORDANCE WITH INSTRUCTIONS ISSUED BY THE MANUFACTURER OF THE UNIT
- NO ELECTRICAL WORK IS REQUIRED BEYOND RECEPTACLE OUTLET
- PROVIDE CONTROL AND/OR POWER WIRING/CONDUITS BETWEEN ALL SYSTEM COMPONENTS AS REQUIRED.
- CONNECT LEADS OF EQUIPMENT LOCATED AT OUTLETS BOX DIRECTLY TO WIRES IN SAME.
- FINAL BRANCH CIRCUIT, OVERCURRENT DEVICE, CONNECTION TYPE, ETC. FOR THIS ITEM SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- CONNECTED THROUGH PHASE CONVERTER VARIABLE FREQUENCY DRIVE -- SINGLE PHASE INPUT WITH THREE PHASE OUTPUT. SEE SPECIFICATIONS FOR MORE INFORMATION ON PHASE CONVERTER VFD.
- CIRCUIT BREAKER FOR THIS ITEM SHALL BE INDICATOR TYPE TO INDICATE WHEN IT IS IN THE ON OR OFF POSITION. BREAKER SHALL BE PROVIDED WITH MEANS FOR LOCKING THE BREAKER IN THE OFF POSITION FOR MAINTENANCE.

DESIGNED: 	SUB SHEET NO. _____	TITLE OF SHEET	DRAWING NO. _____
CD	CD	E4.0	SAGAMORE HILL NATIONAL HISTORIC SITE OSTER BAY, NEW YORK
TECH. REVIEW:	DATE: 05/13/09		
ELECTRICAL SCHEDULES			

PROGRESS SET 05.13.2009