TOWN OF BEDFORD

BEDFORD PUBLIC SCHOOLS
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LT. JOB LANE ELEMENTARY SCHOOL
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KEITH KINNEY, ASSISTANT PRINCIPAL

SCHOOL COMMITTEE
MICHAEL MCALLISTER, CHAIRMAN
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DANIEL BROSGOL, SECRETARY
ED PIERCE, MEMBER
JOANN SANTIAGO, MEMBER

FACILITIES DEPARTMENT
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RON SCALTRETO, OPERATIONS MANAGER

ALTERATIONS & EXPANSION TO THE LT. JOB LANE ELEMENTARY SCHOOL
66 SWEETWATER AVENUE, BEDFORD, MASSACHUSETTS

TBA ARCHITECTS, INC.
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o (617) 439-0125 + f (617) 439-0126 + www.hammerwalsh.com

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Concord, MA 01742
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Fax: (781) 398-2280
Email: info@NS-Engineering.com

VGNA
VERNE G. NORMAN ASSOCIATES
ELECTRICAL ENGINEERS
541 MAIN STREET, S. WEYMOUTH, MA 02190
TEL (781)335-4200 FAX (781)335-5737

DRAWING LIST & MATRIX

		GENERAL	MASONRY	ROOFING	METAL WINDOWS	GLASS / GLAZING	ACOUSTIC TILE	TILE	RESILIENT FLOORING	PAINT	HVAC	PLUMBING	FIRE PROTECTION	ELECTRICAL	ALTERNATE #1	ALTERNATE #2
A-0.0	COVER SHEET & DRAWING MATRIX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A-0.1	SITE PHASING & WORK ZONE PLAN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SITE DRAWINGS																
EX-1.1	LIMITED EXISTING CONDITIONS PLAN, SHEET 1	X												X		X
EX-1.2	LIMITED EXISTING CONDITIONS PLAN, SHEET 2	X												X		X
C1.1	PROPOSED SITE PREPARATION PLAN	X														
C1.2	PROPOSED SITE PREPARATION PLAN	X												X		
C2.1	PROPOSED GRADING AND SOIL EROSION CONTROL PLAN	X														
C2.2	PROPOSED GRADING AND SOIL EROSION CONTROL PLAN	X														
C3.1	PROPOSED LAYOUT AND STORM DRAINAGE PLAN	X														
C3.2	PROPOSED LAYOUT AND STORM DRAINAGE PLAN	X														
C4.1	PROPOSED SITE PREPARATION PLAN ALT. 2	X												X		X
C5.1	PROPOSED GRADING AND SOIL EROSION CONTROL PLAN ALT. 2	X														X
C6.1	PROPOSED LAYOUT AND STORM DRAINAGE PLAN ALT. 2	X														X
C7.1	CIVIL DETAILS	X														X
L1.1	PROPOSED SITE PLAN	X														
L1.2	PROPOSED LANDSCAPE IMPROVEMENTS PLAN ALT. NO. 2	X												X		X
ARCHITECTURAL DRAWINGS																
D-1.0	DEMOLITION PLANS AT WEST ADDITION	X	X		X	X					X	X	X	X		
D-1.1	DEMOLITION PLANS AT RENOVATION AREAS	X	X		X	X					X	X	X	X	X	
D-1.2	DEMOLITION REFLECTED CEILING PLANS AT WEST ADDITION	X	X				X				X	X	X	X		
D-1.3	DEMOLITION REFLECTED CEILING PLANS AT RENOVATION	X	X				X				X	X	X	X	X	
A-1.0	PROPOSED PLANS AT WEST ADDITION	X	X	X	X	X		X	X	X	X	X	X	X		
A-1.1	PROPOSED ROOF PLAN AT WEST ADDITION	X		X							X	X			X	
A-1.2	PROPOSED PLANS AT RENOVATION AREAS	X		X	X	X		X	X	X	X	X	X	X		
A-1.3	PROPOSED ROOF PLAN AT RENOVATION AREAS	X		X	X	X					X				X	
A-1.4	PROPOSED REFLECTED CEILING PLANS AT WEST ADDITION	X					X			X	X	X	X	X		
A-1.5	PROPOSED REFLECTED CEILING PLANS AT RENOVATION AREAS	X			X	X	X			X	X	X	X	X	X	
A-1.6	PROPOSED FLOOR FINISHES PLAN AT WEST ADDITION	X						X	X							
A-1.7	PROPOSED FLOOR FINISHES PLAN AT RENOVATION AREAS	X						X	X						X	
A-2.0	PROPOSED EXTERIOR ELEVATIONS	X	X							X		X	X	X		
A-3.0	PROPOSED BUILDING SECTIONS	X	X	X	X	X	X			X	X	X	X	X		
A-3.1	WALL SECTIONS AT CLASSROOM ADDITION	X	X	X	X	X		X		X	X		X	X		
A-3.2	WALL SECTIONS AT CLASSROOM ADDITION	X	X	X	X	X		X		X	X			X		
A-3.3	WALL SECTIONS AT CAFETERIA	X	X	X	X	X				X	X		X	X		
A-4.1	INTERIOR ELEVATIONS & ENLARGED PLANS AT BATHROOMS	X					X	X		X		X		X	X	
A-4.2	INTERIOR ELEVATIONS AT CLASSROOMS	X					X			X		X		X		
A-4.3	INTERIOR ELEVATIONS AT FOREIGN LANGUAGE CLASSROOMS	X					X			X		X		X		
A-4.4	INTERIOR ELEVATIONS & ENLARGED PLANS AT NURSE'S OFFICE	X					X	X		X		X		X	X	
A-4.5	INTERIOR ELEVATIONS AT TEACHERS' LOUNGE	X					X	X		X		X		X	X	
A-5.0	SECTION DETAILS AT CLASSROOM ADDITION	X		X	X	X				X	X	X	X	X		
A-5.1	PLAN DETAILS AT CLASSROOM ADDITION	X	X	X	X	X				X	X	X		X		
A-5.2	MISCELLANEOUS DETAILS	X	X	X	X	X				X	X	X	X	X	X	
A-5.3	ROOF DETAILS	X	X	X	X	X	X				X				X	
A-5.4	EXPANSION JOINT DETAILS	X	X	X			X		X	X	X	X	X	X		
A-5.5	INTERIOR DETAILS	X			X	X		X	X	X	X	X	X	X	X	
A-5.6	PARTITION TYPES	X					X	X	X	X					X	
A-6.0	SCHEDULES	X	X			X		X	X	X	X				X	
A-7.0	ENLARGED PLAN AT SPLIT STAIR	X	X		X	X	X	X	X	X	X		X	X		
A-7.1	SECTIONS AT SPLIT STAIR	X	X	X	X		X	X	X	X	X		X	X		
A-7.2	INTERIOR ELEVATIONS AT SPLIT STAIR	X					X	X	X	X	X		X	X		
A-7.3	STAIR DETAILS	X				X	X	X	X	X						
STRUCTURAL DRAWINGS																
S-0.1	GENERAL NOTES & ABBREVIATIONS	X	X		X						X	X	X	X		
S-0.2	CONCRETE TYPICAL DETAILS	X	X								X	X	X	X		
S-1.1	FOUNDATION PLAN	X	X								X	X	X	X		
S-1.2	SECOND FLOOR FRAMING PLAN	X	X		X		X				X	X	X	X		
S-1.3	ROOF FRAMING PLAN	X	X	X	X		X			X	X	X	X	X		
S-2.1	BRACING ELEVATIONS & DETAILS	X	X		X						X	X	X	X		
S-3.1	FOUNDATION SECTIONS & DETAILS	X	X								X	X	X	X		
S-4.1	SECTIONS	X	X	X	X						X	X	X	X		
S-4.2	SECTIONS	X	X	X	X						X	X	X	X		
S-4.3	TYPICAL JOIST DETAILS	X	X	X							X	X	X	X		
MECHANICAL DRAWINGS																
M-0.1	MECHANICAL LEGEND & NOTES	X	X	X			X				X	X	X	X	X	
M-0.2	MECHANICAL SCHEDULES	X	X	X			X				X	X	X	X	X	
MX-1.0	EXISTING MECHANICAL PLAN AT ADDITION	X	X								X	X	X	X		
M-1.0	PROPOSED MECHANICAL PLANS AT ADDITION	X	X				X				X	X	X	X		
MX-1.1	EXISTING FIRST FLOOR MECHANICAL PLAN	X	X							X	X	X	X	X	X	
M-1.1	FIRST FLOOR MECHANICAL PLAN	X	X	X			X			X	X	X	X	X	X	
M-1.2	ROOF MECHANICAL PLAN AT ADDITION	X		X							X	X	X	X		
M-2.1	MECHANICAL DETAILS	X	X	X			X				X	X	X	X	X	
M-2.2	MECHANICAL DETAILS	X	X	X			X				X	X	X	X	X	
PLUMBING DRAWINGS																
P-0.1	PLUMBING LEGEND, NOTES & SCHEDULES	X	X	X			X				X	X	X	X	X	
PX-1.0	EXISTING PLUMBING PLANS AT ADDITION	X	X	X							X	X	X	X		
P-1.0	PROPOSED PLUMBING PLANS AT ADDITION	X	X				X	X			X	X	X	X		
PX-1.1	EXISTING FIRST FLOOR PLUMBING PLAN	X	X								X	X	X	X	X	
P-1.1	FIRST FLOOR PLUMBING PLAN	X	X				X	X			X	X	X	X	X	
P-1.2	PROPOSED ROOF PLUMBING PLAN AT ADDITION	X		X							X	X	X	X		
P-2.1	PLUMBING DETAILS	X	X					X			X	X	X	X	X	
FIRE PROTECTION DRAWINGS																
FP-0.1	FIRE PROTECTION LEGEND, NOTES & DETAILS	X					X				X	X	X	X	X	
FPX-1.0	EXISTING FIRE PROTECTION PLANS AT ADDITION	X					X				X	X	X	X		
FP-1.0	PROPOSED FIRE PROTECTION PLANS AT ADDITION	X					X				X	X	X	X		
FPX-1.1	EXISTING FIRST FLOOR FIRE PROTECTION PLAN	X					X			X	X	X	X	X	X	
FP-1.1	FIRST FLOOR FIRE PROTECTION PLAN	X					X			X	X	X	X	X	X	
ELECTRICAL & FIRE ALARM DRAWINGS																
SE-1	SITE LIGHTING PLAN	X									X	X	X	X		X
E-1.0	FIRST & SECOND FLOOR LIGHTING PLAN	X	X				X				X	X	X	X		
E-1.1	FIRST FLOOR LIGHTING PLAN	X	X				X			X	X	X	X	X	X	
E-1.2	FIRST & SECOND FLOOR ELECTRICAL PLAN	X					X				X	X	X	X		
E-1.3	FIRST FLOOR ELECTRICAL PLAN	X					X			X	X	X	X	X	X	
E-1.4	FIRST & SECOND FLOOR LOW TENSION PLAN	X					X				X	X	X	X		
E-1.5	FIRST FLOOR LOW TENSION PLAN	X					X				X	X	X	X	X	
E-3.0	POWER RISER & POWER ONE LINE DIAGRAM	X					X				X	X	X	X	X	
E-3.1	LEGEND & SCHEDULES	X					X				X	X	X	X	X	
FA-1.0	FIRST & SECOND FLOOR FIRE ALARM PLAN	X	X				X				X	X	X	X		
FA-1.1	FIRST FLOOR FIRE ALARM PLAN	X	X				X			X	X	X	X	X	X	

ARCHITECTURAL ABBREVIATIONS

ADD	ADDITION, ADDENDUM	EQ	EQUAL	O.S.C.I.	OWNER SUPPLIED CONTRACTOR INSTALLED
ALT	ALTERNATE	EX/EXIST	EXISTING	P	PAINT
ALUM	ALUMINUM	FIN	FINISH	PTD	PAINTED
APPROX	APPROXIMATE	FL	FLOOR	PLYWD	PLYWOOD
&	AND	FLASH	FLASHING	QR	QUARTER ROUND
@	AT	GA	GAUGE	QUAN	QUANTITY
BLDG	BUILDING	GALV	GALVANIZED	REF	REFERENCE
BLKG	BLOCKING	GC	GENERAL CONTRACTOR	REINF	REINFORCED
BRK	BRICK	GL	GLASS, GLAZING	REQD	REQUIRED
CB	CATCH BASIN	GWB	GYPSUM WALL BOARD	REV	REVISED
CL	CENTER LINE	H	HIGH, HEIGHT	RO	ROUGH OPENING
CLKG	CAULKING	HORIZ	HORIZONTAL	S	SOUTH
CLR	CLEAR	IN	INCHES	SECT	SECTION
CO	CENTRAL OFFICE	INSUL	INSULATION	SF	SQUARE FOOT
CONC	CONCRETE	LF	LINEAR FOOT	SHT	SHEET
CONST	CONSTRUCTION	MAX	MAXIMUM	SIM	SIMILAR
CONT	CONTINUOUS	MECH	MECHANICAL	SPEC	SPECIFICATION
CONTR	CONTRACTOR	MIN	MINIMAL	SQ	SQUARE
D	DEEP, DEPTH	MISC	MISCELLANEOUS	SQIN	SQUARE INCH
DBL	DOUBLE	MO	MASONRY OPENING	SS	STAINLESS STEEL
DEMO	DEMOLITION	MO	MAIN OFFICE	STD	STANDARD
DET	DETAIL	MTL	METAL	STL	STEEL
DIA	DIAMETER	MUL	MULLION	THK	THICK
DIM	DIMENSION	N	NORTH	TYP	TYPICAL
DIV	DIVISION	NO	NUMBER	VERT	VERTICAL
DS	DOWN SPOUT	NOM	NOMINAL	W	WIDE, WEST
DWG	DRAWING	NTS	NOT TO SCALE	W/	WITH
E	EAST	OC	ON CENTER	WD	WOOD
EA	EACH	OPER	OPERABLE	WT	WEIGHT
EL	ELEVATION	OPNG	OPENING		

MATERIAL INDICATIONS

- PLYWOOD
- STEEL
- BRICK
- CONCRETE BLOCK
- RIGID INSULATION
- FIBERGLASS INSULATION
- CONCRETE
- FINISHED WOOD
- CONTINUOUS WOOD
- WOOD BLOCKING

GRAPHIC SYMBOLS

- BREAK LINE
- ELEVATION MARKER
- C-C/A3.0 — SECTION MARKER
- X / A-X — DETAIL MARKER
- X — REVISION NUMBER
- X / X / X / X — INTERIOR ELEVATION
- X — NOTE
- X — DOOR NUMBER, E - DENOTES EXISTING
- X — WALL TYPE
- ROOM NAME / ROOM # — ROOM NAME/ NUMBER

GENERAL INFO

BUILDING CODE SUMMARY
All work shall comply completely with the Massachusetts State Building, 780 CMR, Eighth Edition, as ammended & 521 CMR MAAB.

EXISTING CONDITIONS
These drawings have been compiled from the best available information and are not intended to limit the scope of work. All observation was done by visual or best available documents provided by the Town of Bedford. Any conditions to the contrary or not explicitly stated herein shall be considered latent and architect must be notified prior to any work not as outlined in these documents. **It will be assumed that the contractor has inspected the site prior to construction and verified the information herein supplied.**

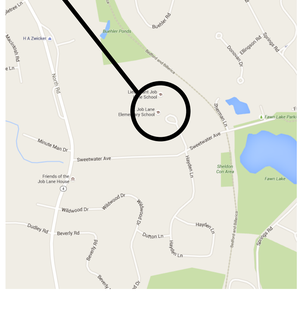
All directions stated throughout documents are by **Project North**.

GENERAL NOTES
The General Contractor shall be responsible for all construction means, methods, co-ordination of other trades and techniques to produce a sound quality building. All dimensions, elevations and conditions must be verified by the General Contractor or responsible trade.

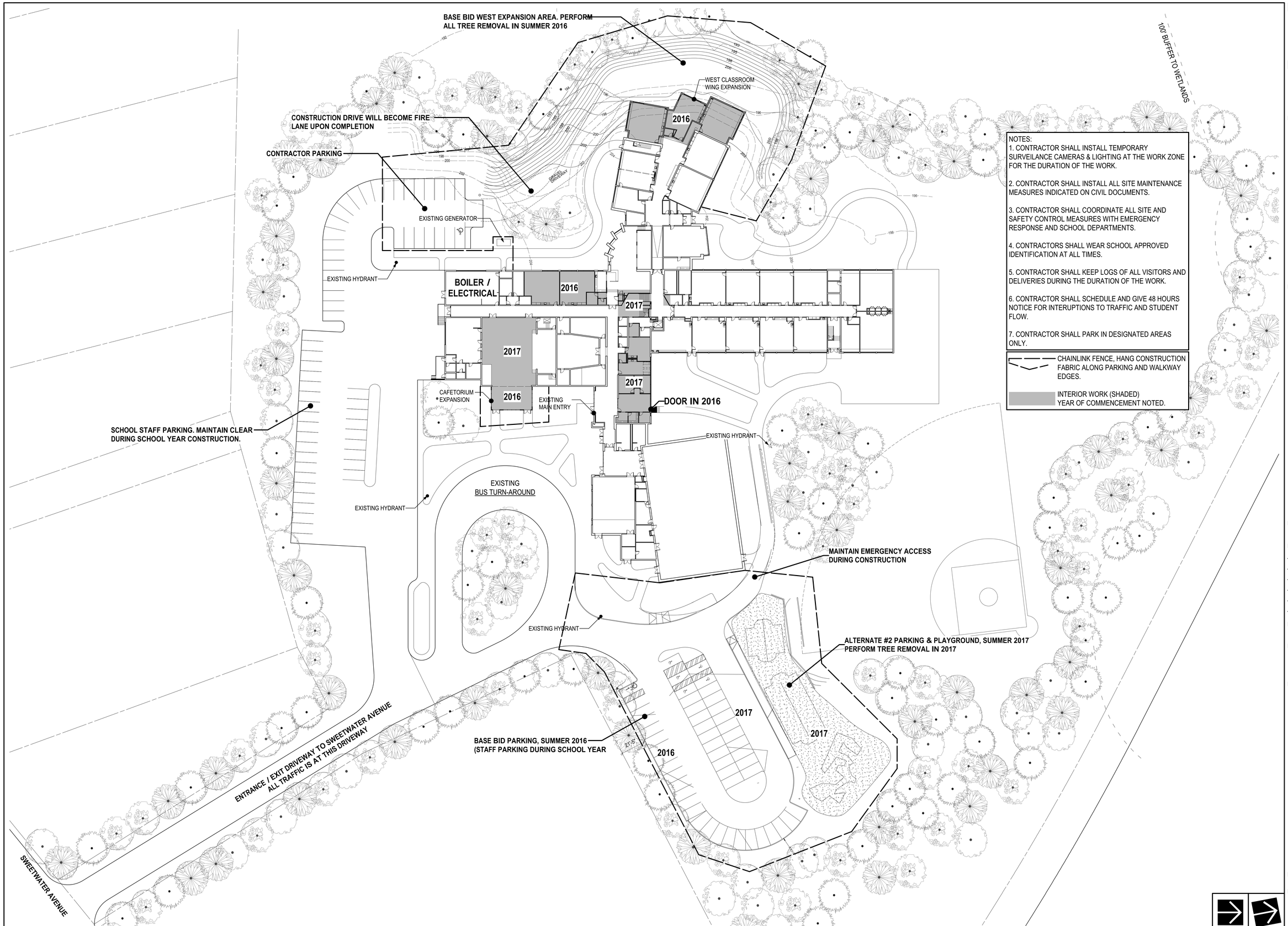
* Submit copies of permits to Authority prior to commencing work.
* Request schedule and attend all inspections required by the authorities having jurisdiction.

LOCI MAP

Lt. Job Lane Elementary School
66 Sweetwater Avenue, Bedford, MA



BIDDING DOCUMENTS
18 MAY 2016



NOTES:

1. CONTRACTOR SHALL INSTALL TEMPORARY SURVEILANCE CAMERAS & LIGHTING AT THE WORK ZONE FOR THE DURATION OF THE WORK.

2. CONTRACTOR SHALL INSTALL ALL SITE MAINTENANCE MEASURES INDICATED ON CIVIL DOCUMENTS.

3. CONTRACTOR SHALL COORDINATE ALL SITE AND SAFETY CONTROL MEASURES WITH EMERGENCY RESPONSE AND SCHOOL DEPARTMENTS.

4. CONTRACTORS SHALL WEAR SCHOOL APPROVED IDENTIFICATION AT ALL TIMES.

5. CONTRACTOR SHALL KEEP LOGS OF ALL VISITORS AND DELIVERIES DURING THE DURATION OF THE WORK.

6. CONTRACTOR SHALL SCHEDULE AND GIVE 48 HOURS NOTICE FOR INTERUPTIONS TO TRAFFIC AND STUDENT FLOW.

7. CONTRACTOR SHALL PARK IN DESIGNATED AREAS ONLY.

CHAINLINK FENCE, HANG CONSTRUCTION FABRIC ALONG PARKING AND WALKWAY EDGES.

INTERIOR WORK (SHADED) YEAR OF COMMENCEMENT NOTED.

SITE PHASING & WORK ZONE PLAN

PROJECT NORTH | CALLED NORTH

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REVISIONS

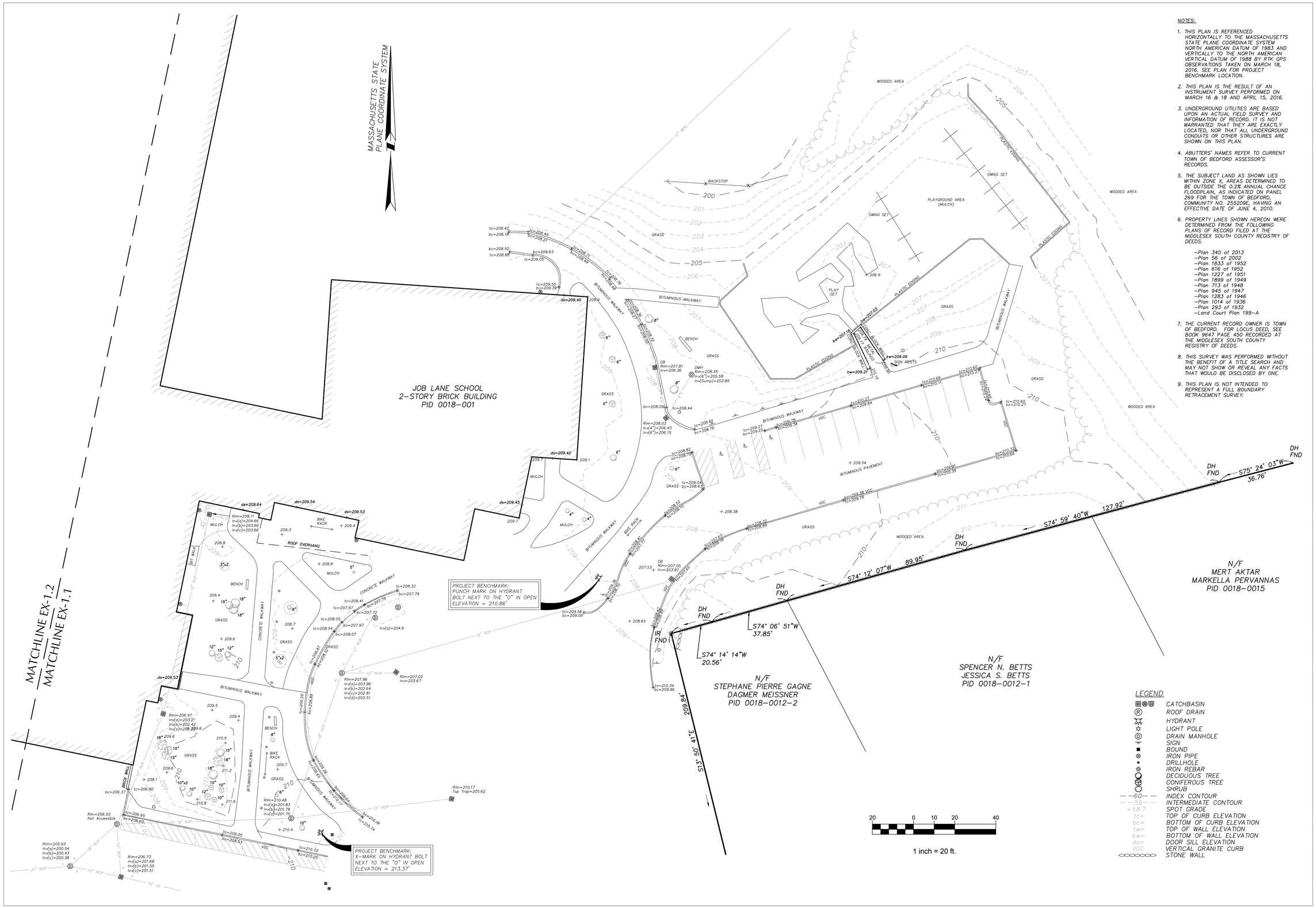
DATE OF ISSUE
18 MAY 2016 - BID DOCUMENTS

SCALE
1" = 30'-0" ON ORIGINAL
0 10 20 30 60

SITE PHASING & WORK ZONE PLAN

TBA PROJECT # 1258

A-0.1



NOTES:

1. THIS PLAN IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 BY RTK GPS OBSERVATIONS TAKEN ON MARCH 18, 2016. SEE PLAN FOR PROJECT BENCHMARK LOCATION.
2. THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY PERFORMED ON MARCH 16 & 18 AND APRIL 15, 2016.
3. UNDERGROUND UTILITIES ARE BASED UPON AN ACTUAL FIELD SURVEY AND INFORMATION OF RECORD. IT IS NOT WARRANTED THAT THEY ARE EXACTLY LOCATED, NOR THAT ALL UNDERGROUND CONDUITS OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN.
4. ABUTTERS' NAMES REFER TO CURRENT TOWN OF BEDFORD ASSESSOR'S RECORDS.
5. THE SUBJECT LAND AS SHOWN LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS INDICATED ON PANEL 269 FOR THE TOWN OF BEDFORD, COMMUNITY NO. 255209E, HAVING AN EFFECTIVE DATE OF JUNE 4, 2010.
6. PROPERTY LINES SHOWN HEREON WERE DETERMINED FROM THE FOLLOWING PLANS OF RECORD FILED AT THE MIDDLESEX SOUTH COUNTY REGISTRY OF DEEDS.
   - Plan 340 of 2013
   - Plan 56 of 2002
   - Plan 1833 of 1952
   - Plan 616 of 1952
   - Plan 1227 of 1951
   - Plan 1899 of 1949
   - Plan 713 of 1948
   - Plan 945 of 1947
   - Plan 1283 of 1946
   - Plan 1014 of 1936
   - Plan 293 of 1932
   - Land Court Plan 199-A
7. THE CURRENT RECORD OWNER IS TOWN OF BEDFORD. FOR LOCUS DEED, SEE BOOK 9647 PAGE 450 RECORDED AT THE MIDDLESEX SOUTH COUNTY REGISTRY OF DEEDS.
8. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT SHOW OR REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.
9. THIS PLAN IS NOT INTENDED TO REPRESENT A FULL BOUNDARY RETRACEMENT SURVEY.

LEGEND

	CATCHBASIN
	ROOF DRAIN
	HYDRANT
	LIGHT POLE
	DRAIN MANHOLE
	SIGN
	BOUND
	IRON PIPE
	DRILLHOLE
	IRON REBAR
	DECIDUOUS TREE
	CONIFEROUS TREE
	SHRUB
60	INDEX CONTOUR
59	INTERMEDIATE CONTOUR
+58.7	SPOT GRADE
tc=	TOP OF CURB ELEVATION
bc=	BOTTOM OF CURB ELEVATION
tw=	TOP OF WALL ELEVATION
bw=	BOTTOM OF WALL ELEVATION
ds=	DOOR SILL ELEVATION
VGC	VERTICAL GRANITE CURB
	STONE WALL

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CLIENT:
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REVISIONS

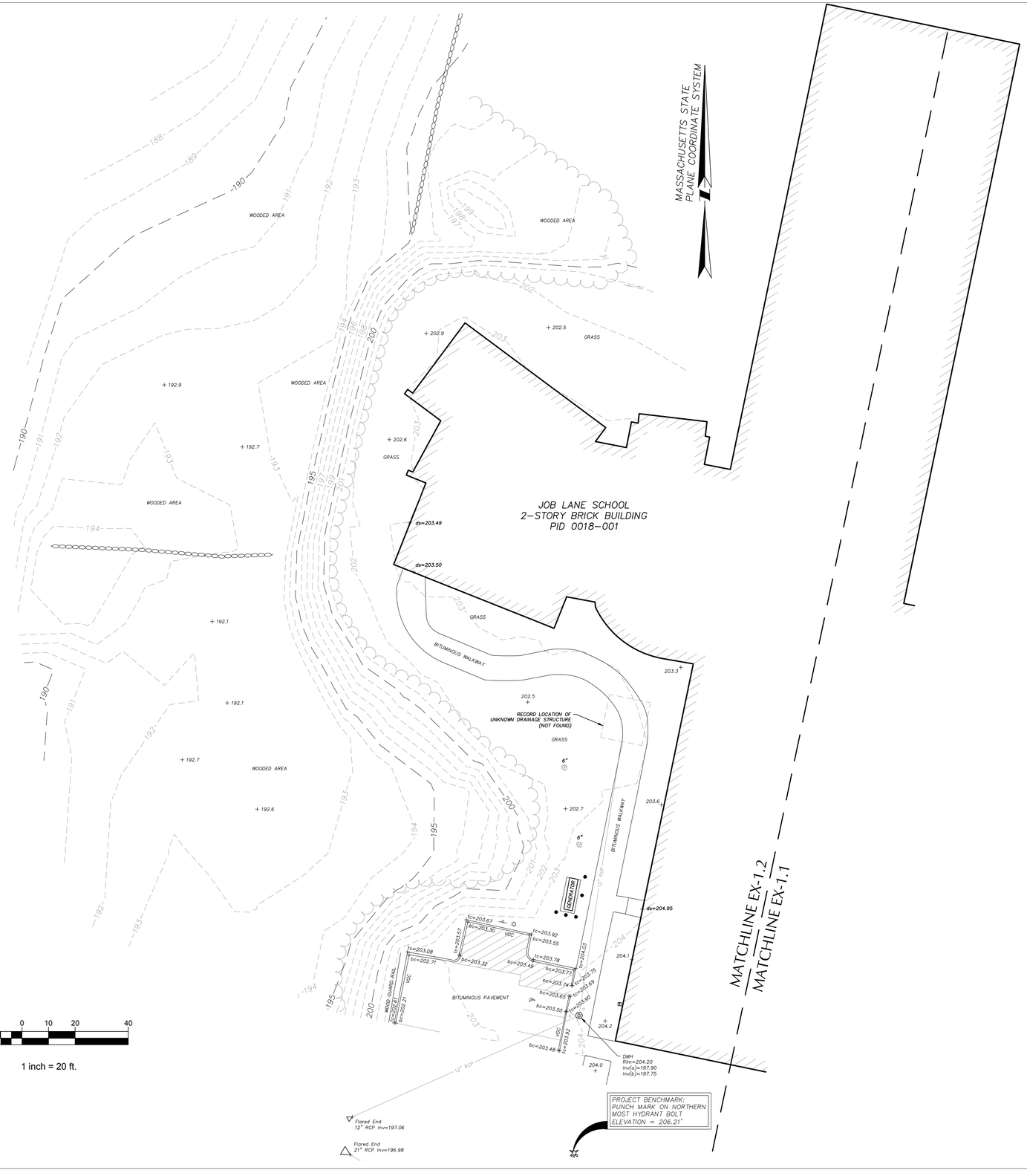
DATE OF ISSUE
PROGRESS 21 APRIL 2016

SCALE
AS SHOWN

LIMITED EXISTING CONDITIONS PLAN

TBA PROJECT # 1258

EX-1.1



LEGEND

- CATCHBASIN
- ROOF DRAIN
- HYDRANT
- LIGHT POLE
- DRAIN MANHOLE
- SIGN
- BOUND
- IRON PIPE
- DRILLHOLE
- IRON REBAR
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- 60 INDEX CONTOUR
- 59 INTERMEDIATE CONTOUR
- +58.7 SPOT GRADE
- tc= TOP OF CURB ELEVATION
- bc= BOTTOM OF CURB ELEVATION
- tw= TOP OF WALL ELEVATION
- bw= BOTTOM OF WALL ELEVATION
- ds= DOOR SILL ELEVATION
- VGC VERTICAL GRANITE CURB
- STONE WALL

20 0 10 20 40

1 inch = 20 ft.

NOTES:

1. THIS PLAN IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 BY RTK GPS OBSERVATIONS TAKEN ON MARCH 18, 2016. SEE PLAN FOR PROJECT BENCHMARK LOCATION.
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   - –Plan 945 of 1947
   - –Plan 1283 of 1946
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LIMITED EXISTING CONDITIONS PLAN

TBA PROJECT # 1258

EX-1.2

DEMOLITION LEGEND:

- BITUMINOUS CONCRETE TO BE REMOVED / PULVERIZED
- TREE AREA TO BE CLEARED
- LAWN TO BE REMOVED
- WALL TO BE REMOVED
- CURB REMOVAL
- FENCE REMOVAL
- UTILITIES LINE TO BE REMOVED/ABANDONED (COORDINATE WITH MEP)
- LIMIT OF WORK
- MISC. REMOVAL/RELOCATION
- UTILITIES STRUCTURE TO BE REMOVED
- UTILITIES STRUCTURE TO BE ABANDONED
- UTILITIES TO BE SALVAGED
- TREE PROTECTION
- TREE TO BE REMOVED

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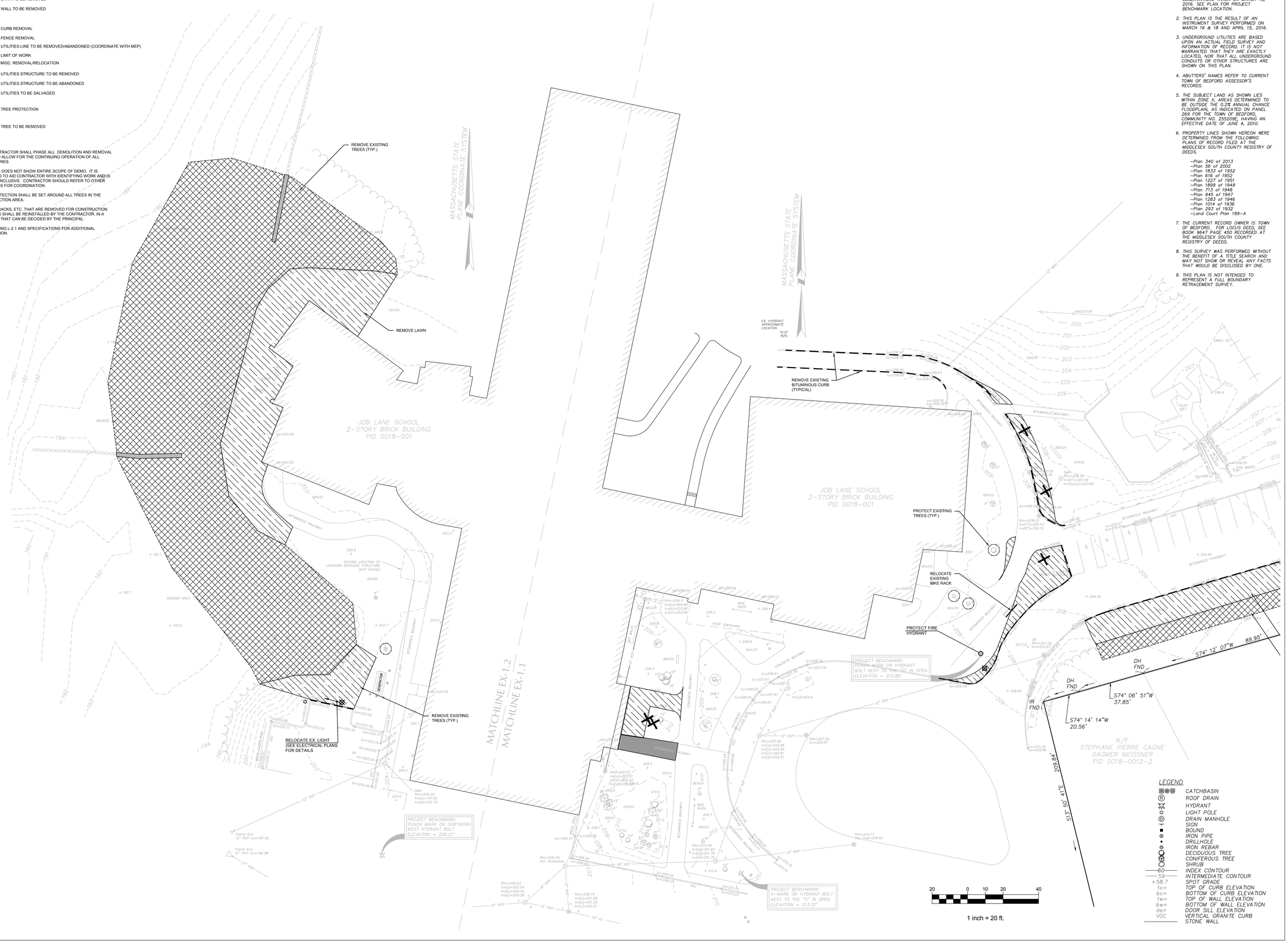

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LEGEND

- CATCHBASIN
- ROOF DRAIN
- HYDRANT
- LIGHT POLE
- DRAIN MANHOLE
- SIGN
- BOUND
- IRON PIPE
- DRILLHOLE
- IRON REBAR
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- 60 — INDEX CONTOUR
- 59 — INTERMEDIATE CONTOUR
- +58.7 — SPOT GRADE
- tc= — TOP OF CURB ELEVATION
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PROPOSED SITE PREPARATION PLAN

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TBA PROJECT # 1258

C1.1

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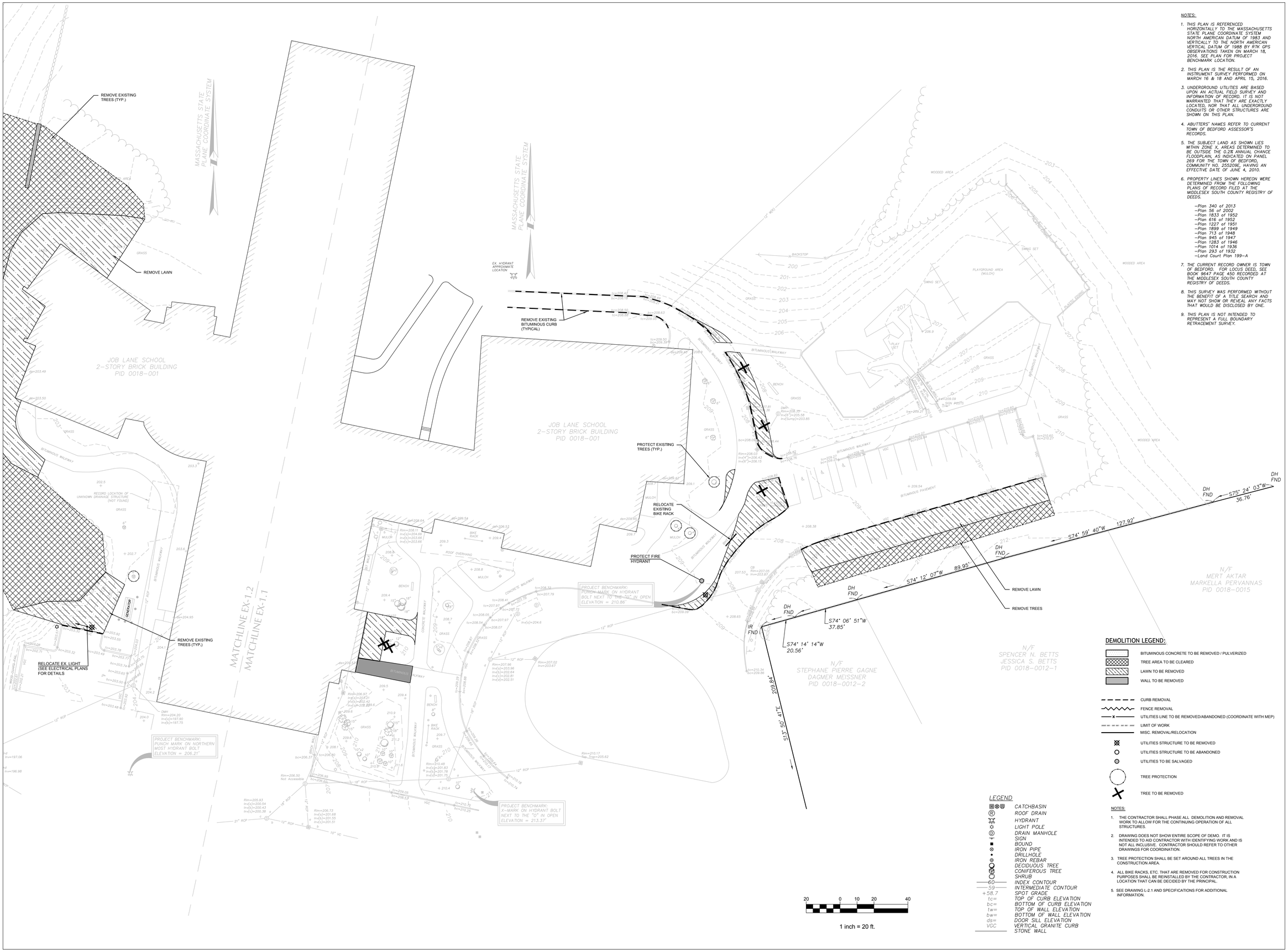

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LEGEND

	CATCHBASIN
R	ROOF DRAIN
	HYDRANT
	LIGHT POLE
D	DRAIN MANHOLE
	SIGN
	BOUND
	IRON PIPE
	DRILLHOLE
	IRON REBAR
	DECIDUOUS TREE
	CONIFEROUS TREE
	SHRUB
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59	INTERMEDIATE CONTOUR
+58.7	SPOT GRADE
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bw=	BOTTOM OF WALL ELEVATION
ds=	DOOR SILL ELEVATION
VGC	VERTICAL GRANITE CURB
	STONE WALL

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PROPOSED SITE PREPARATION PLAN

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TBA PROJECT # 1258

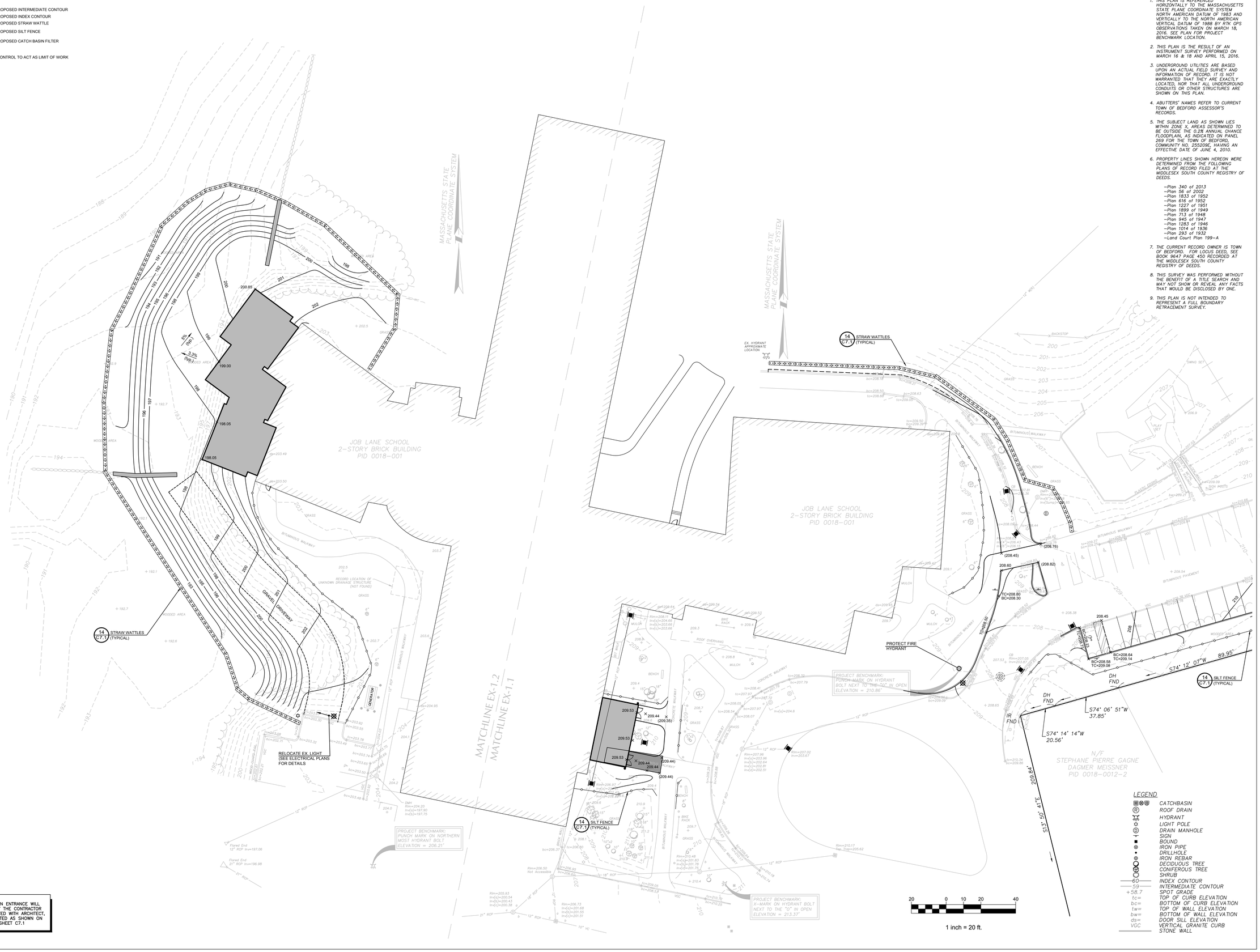
C1.2

NOT FOR CONSTRUCTION

LEGEND:

129	PROPOSED INTERMEDIATE CONTOUR
130	PROPOSED INDEX CONTOUR
	PROPOSED STRAW WATTLE
	PROPOSED SILT FENCE
	PROPOSED CATCH BASIN FILTER

NOTE: SOIL EROSION CONTROL TO ACT AS LIMIT OF WORK



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LEGEND

	CATCHBASIN
	ROOF DRAIN
	HYDRANT
	LIGHT POLE
	DRAIN MANHOLE
	SIGN
	BOUND
	IRON PIPE
	DRILLHOLE
	IRON REBAR
	DECIDUOUS TREE
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PROPOSED GRADING AND SOIL EROSION CONTROL PLAN

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TBA PROJECT # 1258

C2.1

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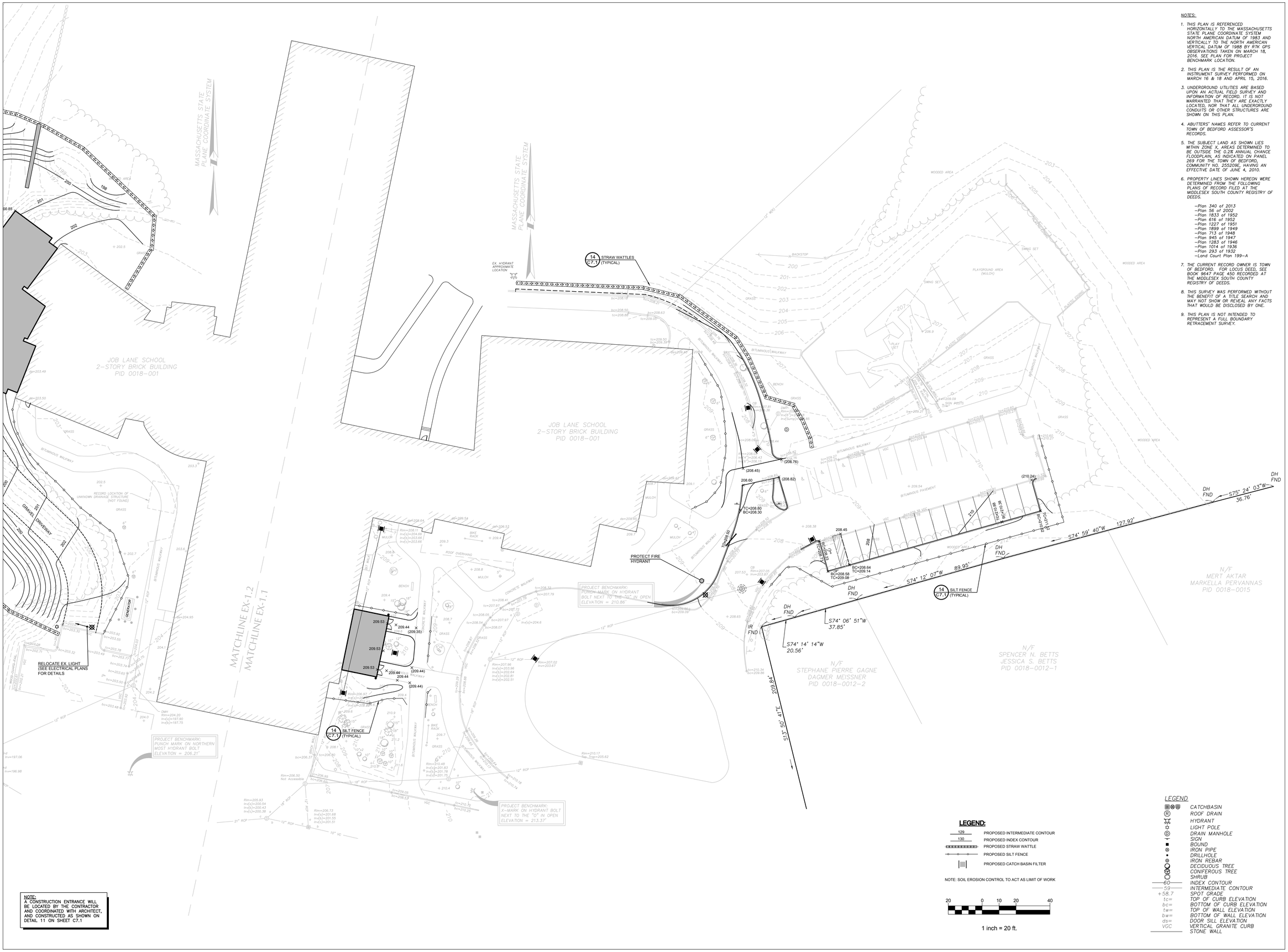

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LEGEND:

129	PROPOSED INTERMEDIATE CONTOUR
130	PROPOSED INDEX CONTOUR
	PROPOSED STRAW WATTLE
	PROPOSED SILT FENCE
	PROPOSED CATCH BASIN FILTER

NOTE: SOIL EROSION CONTROL TO ACT AS LIMIT OF WORK

20 0 10 20 40

1 inch = 20 ft.

LEGEND

	CATCHBASIN
	ROOF DRAIN
	HYDRANT
	LIGHT POLE
	DRAIN MANHOLE
	SIGN
	BOUND
	IRON PIPE
	DRILLHOLE
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PROPOSED GRADING AND SOIL EROSION CONTROL PLAN

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TBA PROJECT # 1258

C2.2

NOT FOR CONSTRUCTION

LEGEND:

D	PROPOSED STORM DRAINAGE LINE
RD	PROPOSED ROOF DRAIN LINE
DMH	PROPOSED STORM DRAINAGE MANHOLE
CB	PROPOSED CATCH BASIN
	PROPOSED AREA DRAIN
DW	PROPOSED DRYWELL

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PROPOSED LAYOUT AND STORM DRAINAGE PLAN

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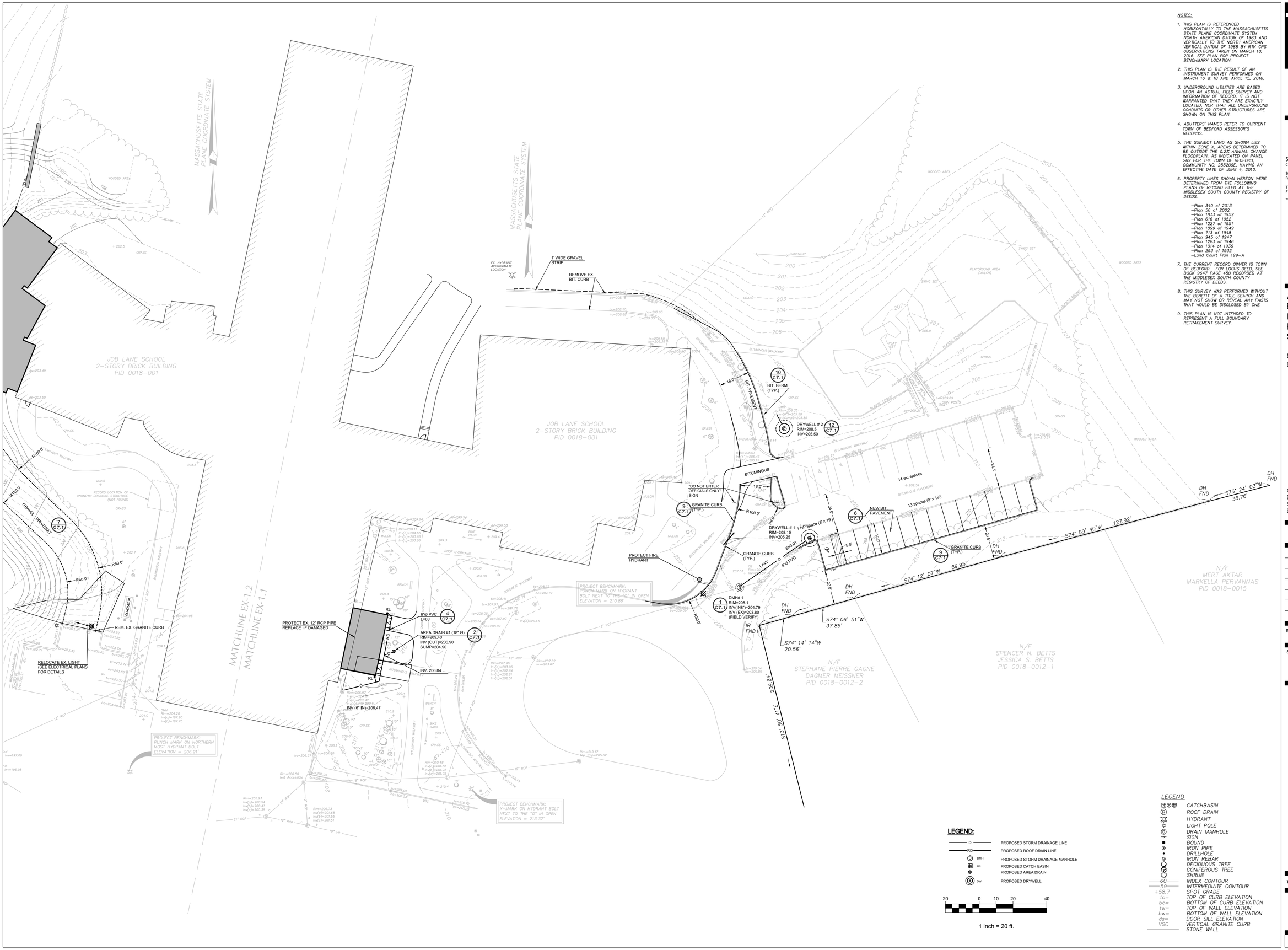

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PROPOSED LAYOUT AND STORM DRAINAGE PLAN

BIDDING DOCUMENTS

TBA PROJECT # 1258

C3.2

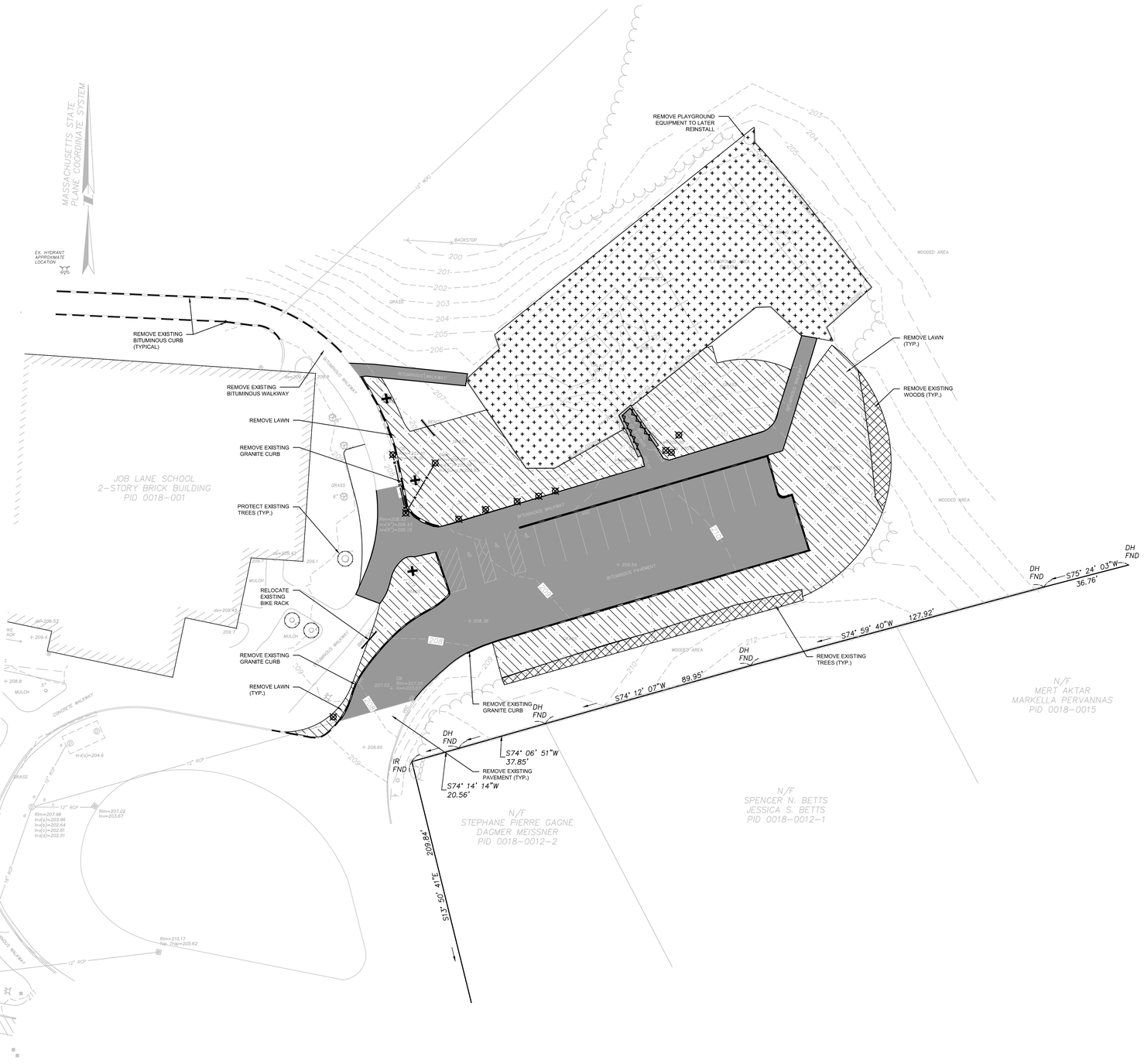
NOT FOR CONSTRUCTION

DEMOLITION LEGEND:

- PLAY AREA TO BE REMOVED / REINSTALLED (INCL. CUT & CAP UTILITIES)
- BITUMINOUS CONCRETE TO BE REMOVED / PULVERIZED
- TREE AREA TO BE CLEARED
- LAWN TO BE REMOVED
- WALL TO BE REMOVED
- CURB REMOVAL
- FENCE REMOVAL
- UTILITIES LINE TO BE REMOVED/ABANDONED (COORDINATE WITH MEP)
- LIMIT OF WORK
- MISC. REMOVAL/RELOCATION
- UTILITIES STRUCTURE TO BE REMOVED
- UTILITIES STRUCTURE TO BE ABANDONED
- LIGHT FIXTURES TO BE SALVAGED
- TREE PROTECTION
- TREE TO BE REMOVED

NOTES:

1. THE CONTRACTOR SHALL PHASE ALL DEMOLITION AND REMOVAL WORK TO ALLOW FOR THE CONTINUING OPERATION OF ALL STRUCTURES.
2. DRAWING DOES NOT SHOW ENTIRE SCOPE OF DEMO. IT IS INTENDED TO AID CONTRACTOR WITH IDENTIFYING WORK AND IS NOT ALL INCLUSIVE. CONTRACTOR SHOULD REFER TO OTHER DRAWINGS FOR COORDINATION.
3. THE CONTRACTOR SHALL PROVIDE A MEASURED SHOP DRAWING OF THE STRUCTURAL SUPPORTS FOR THE EXISTING PLAY EQUIPMENT AS WELL AS PHOTOGRAPHS FROM EACH OF FOUR CARDINAL DIRECTIONS.
4. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL PLAY EQUIPMENT COMPONENTS AND REINSTALL THEM IN ALIGNMENT AND ORIENTATION AS DIRECTED BY THE LANDSCAPE ARCHITECT.
5. TREE PROTECTION SHALL BE SET AROUND ALL TREES IN THE CONSTRUCTION AREA.
6. ALL BIKE RACKS, ETC. THAT ARE REMOVED FOR CONSTRUCTION PURPOSES SHALL BE REINSTALLED BY THE CONTRACTOR, IN A LOCATION THAT CAN BE DECIDED BY THE PRINCIPAL.
7. SEE DRAWING L-2.1 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



20 0 10 20 40

1 inch = 20 ft.

NOTES:

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LEGEND

- CATCHBASIN
- ROOF DRAIN
- HYDRANT
- LIGHT POLE
- DRAIN MANHOLE
- SIGN
- BOUND
- IRON PIPE
- DRILLHOLE
- IRON REBAR
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- 60 — INDEX CONTOUR
- 59 — INTERMEDIATE CONTOUR
- +58.7 — SPOT GRADE
- tc= — TOP OF CURB ELEVATION
- bc= — BOTTOM OF CURB ELEVATION
- tw= — TOP OF WALL ELEVATION
- bw= — BOTTOM OF WALL ELEVATION
- ds= — DOOR SILL ELEVATION
- VOC — VERTICAL GRANITE CURB
- STONE WALL

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PROPOSED SITE PREPARATION PLAN ALT.2

TBA PROJECT # 1258

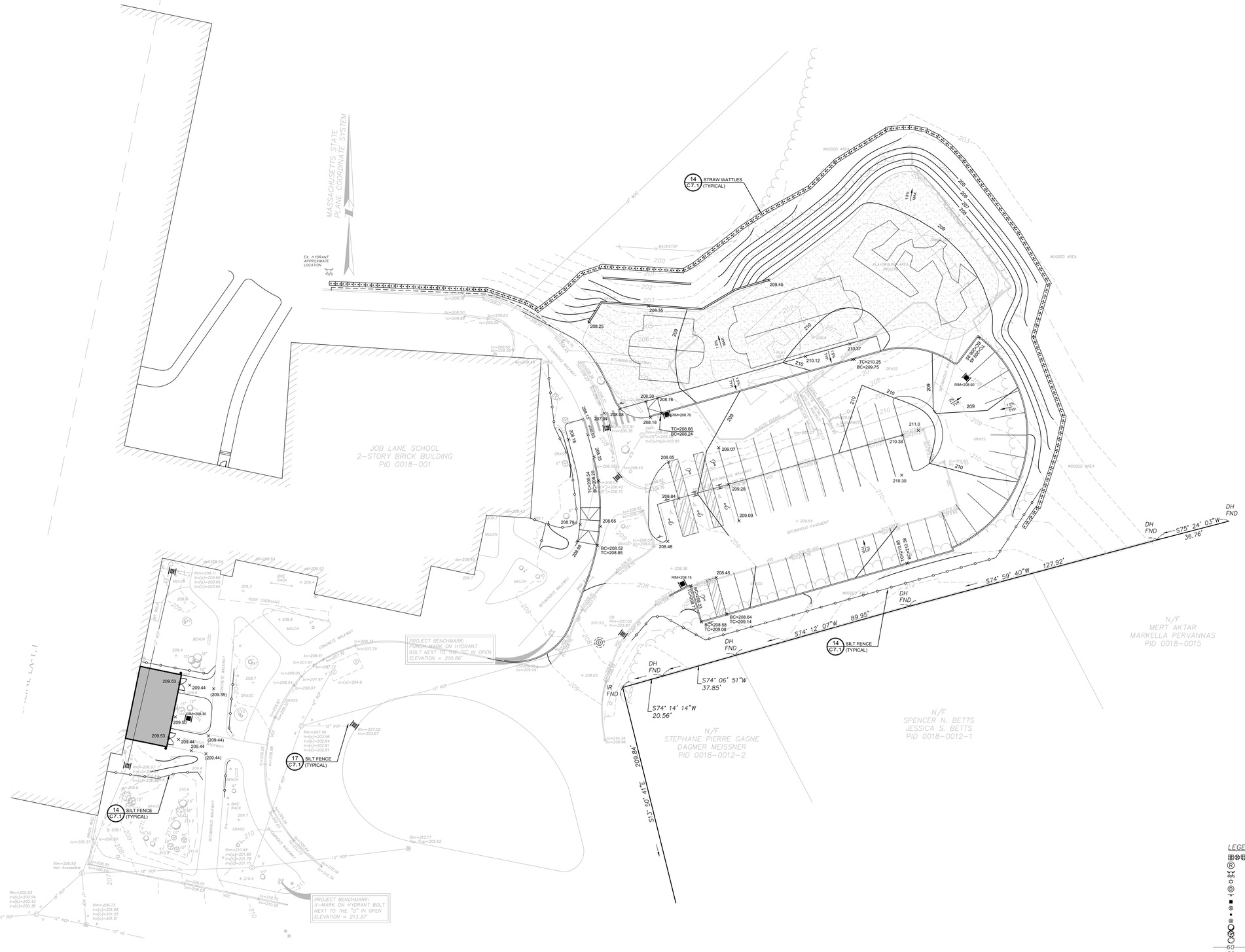
C4.1

NOT FOR CONSTRUCTION

LEGEND:

129	PROPOSED INTERMEDIATE CONTOUR
130	PROPOSED INDEX CONTOUR
	PROPOSED STRAW WATTLE
	PROPOSED SILT FENCE
	PROPOSED CATCH BASIN FILTER

NOTE: SOIL EROSION CONTROL TO ACT AS LIMIT OF WORK



NOTE:
A CONSTRUCTION ENTRANCE WILL BE LOCATED BY THE CONTRACTOR AND COORDINATED WITH ARCHITECT, AND CONSTRUCTED AS SHOWN ON DETAIL 11 ON SHEET C7.1

20 0 10 20 40

1 inch = 20 ft.

NOTES:

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LEGEND

	CATCHBASIN
	ROOF DRAIN
	HYDRANT
	LIGHT POLE
	DRAIN MANHOLE
	SIGN
	BOUND
	IRON PIPE
	DRILLHOLE
	IRON REBAR
	DECIDUOUS TREE
	CONIFEROUS TREE
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bw=	BOTTOM OF WALL ELEVATION
ds=	DOOR SILL ELEVATION
VGC	VERTICAL GRANITE CURB
	STONE WALL

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PROPOSED GRADING AND SOIL EROSION CONTROL PLAN
ALT. 2

BIDDING DOCUMENTS

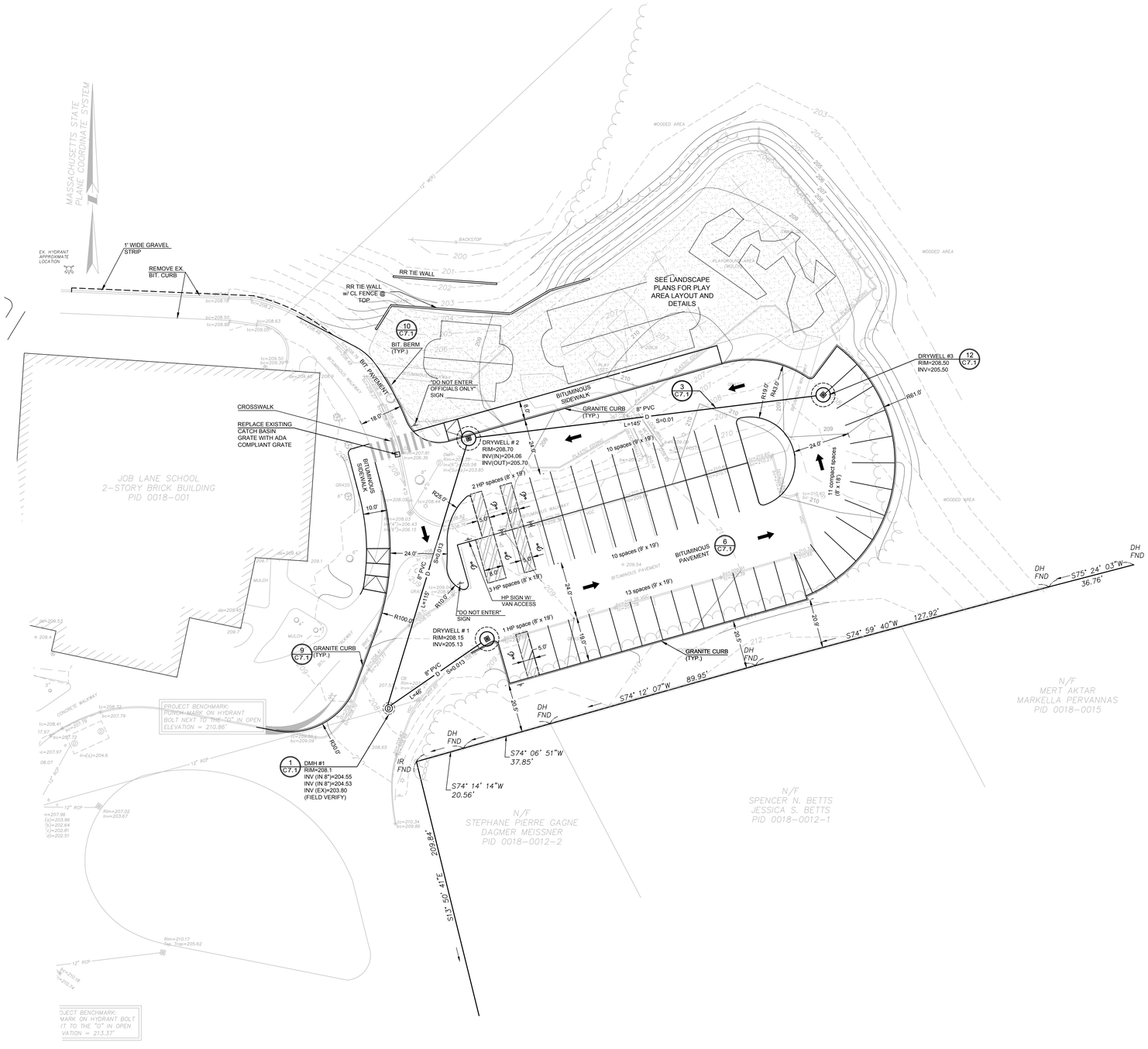
TBA PROJECT # 1258

C5.1

NOT FOR CONSTRUCTION

LEGEND:

- D — PROPOSED STORM DRAINAGE LINE
- RD — PROPOSED ROOF DRAIN LINE
- DMH — PROPOSED STORM DRAINAGE MANHOLE
- CB — PROPOSED CATCH BASIN
- PROPOSED AREA DRAIN
- DW — PROPOSED DRYWELL



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LEGEND

- *CATCHBASIN*
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- *HYDRANT*
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- *SIGN*
- *BOUND*
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PROPOSED LAYOUT AND STORM DRAINAGE PLAN ALT. 2

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TBA PROJECT # 1258

C6.1

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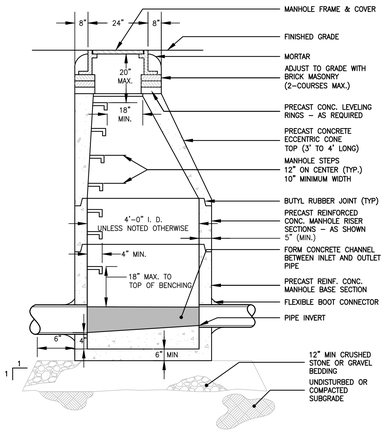
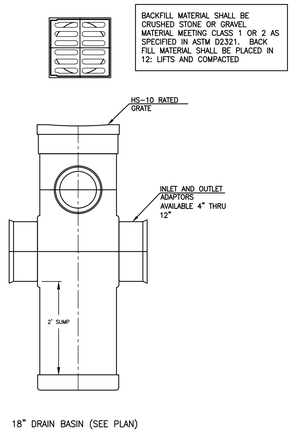


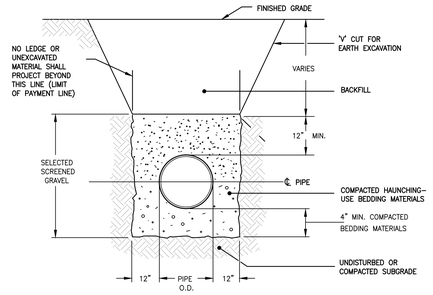
1 PRECAST STORM DRAIN MANHOLE

NTS



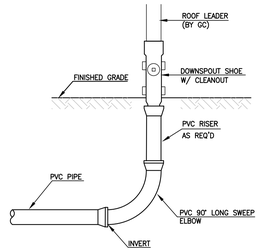
2 'NYLOPLAST' AREA DRAIN

NTS



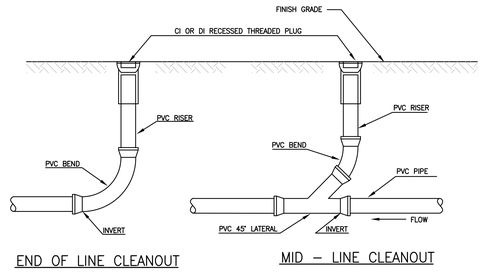
3 TRENCH SECTION- PVC GRAVITY PIPE

NTS



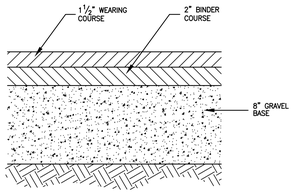
4 ROOF LEADER

NTS



5 CLEANOUT

NTS



6 BITUMINOUS PAVEMENT

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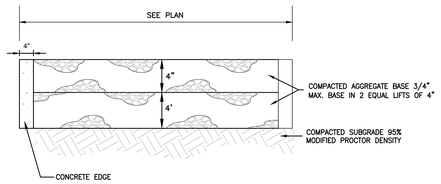
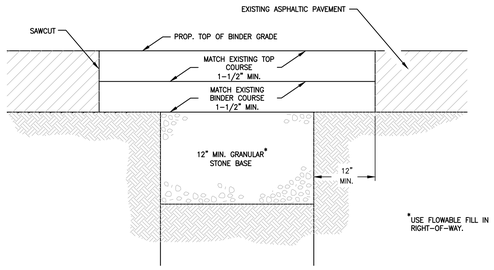


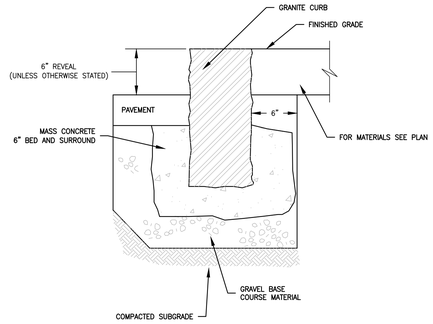
7 FIRE LANE

NTS



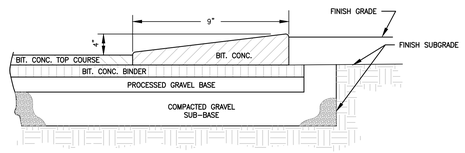
8 TRENCH PATCHING DETAIL

NTS



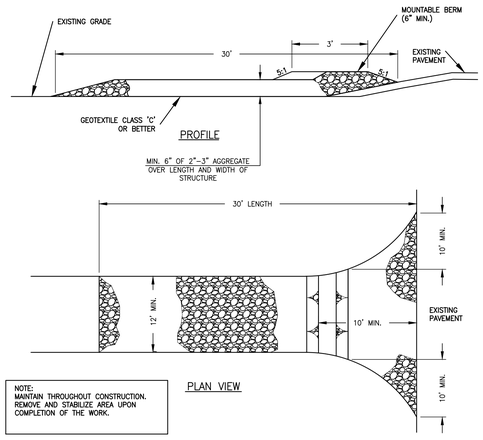
9 VERTICAL GRANITE CURB

NTS



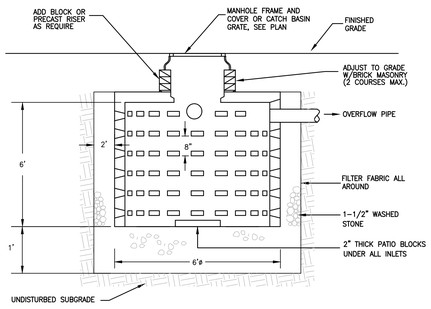
10 CAPE COD BERM

NTS



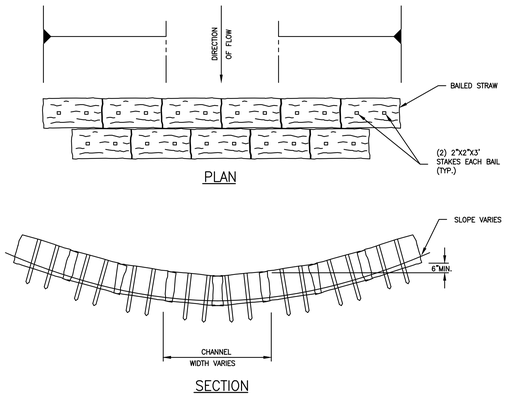
11 STABILIZED CONSTRUCTION ENTRANCE

NTS



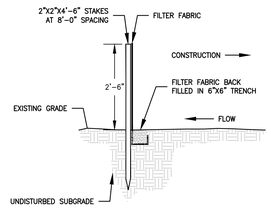
12 DRYWELL

NTS



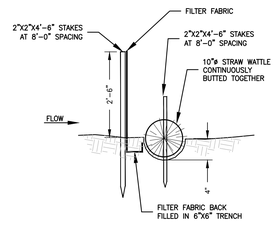
13 STRAW BALE CHECK DAM

NTS



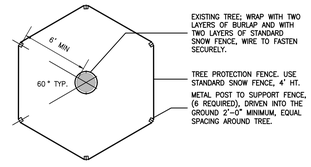
14 SILT FENCE

NTS



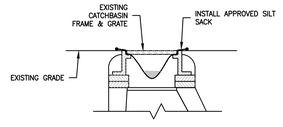
15 SILT FENCE WITH STRAW WATTLE

NTS



16 TREE PROTECTION FENCE

NTS



17 CATCHBASIN W/ SILT SACK

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C7.1

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PLANT LIST

QUAN	BOTANICAL NAME	COMMON NAME	SIZE
	Trees		
3	Acer Rubrum 'October Glory'	October Glory Red Maple	3½"-4" cal
2	Liquidambar styraciflua 'Moraine'	Moraine Sweetgum	3½"-4" cal
6	Abies concolor	White Fir	10-12' ht
6	Picea pungens	Blue Spruce	10'-12' ht
2	Cornus florida	Pink Flowering Dogwood	2 ½"-3" cal
1	Malus 'Adirondack'	White Flowering Crabapple	21/2"-3" cal
2	Malus 'Adams'	Red Flowering Crabapple	2 ½"-3" cal
	Shrubs		
1	Ilex x meserveae 'China Boy'	China Boy Holly	3'-3½' ht
3	Ilex x meserveae 'China Girl'	China Girl Holly	3'-3½' ht
1	Rhododendron 'Aglo'	Aglo Rhododendron	2'-2½' ht
2	Rhododendron 'Blaauw's Pink'	Blaauw's Pink Azalea	2'-2½' ht
1	Rhododendron canadense	Rhodora Azalea	2'-2½' ht
3	Rhododendron catawba 'Boursault'	Boursault Rhododendron	3½'-4' ht
5	Viburnum 'Arrowood'	Arrowwood Viburnum	3½'-4' ht
4	Viburnum 'Onondaga'	Onondaga Viburnum	3½'-4' ht

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PROPOSED SITE PLAN

TBA PROJECT # 1258

L1.1

EXISTING PLAY EQUIPMENT NOTES- (See Spec Section 02550)

1. THE CONTRACTOR SHALL PREPARE A MEASURED SHOP DRAWING THAT SHOWS THE LAYOUT OF ALL SUPPORTING FOOTINGS AND COLUMNS AND SUBMIT TO LANDSCAPE ARCHITECT FOR REVIEW. IN ADDITION, THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC REPRESENTATION OF EACH OF THE PLAY STRUCTURES FORM THE FOUR CARDINAL DIRECTIONS.
2. THE CONTRACTOR SHALL DISASSEMBLE THE EXISTING PLAY STRUCTURES ABOVE-GRADE PIECES USING HAND TOOLS WHILE CAREFULLY RECORDING HOW EACH CONNECTION POINT IS SECURED FOR FUTURE REASSEMBLE.
3. USING ROPES OR BELT STRAPS SECURED TO A POWERED EXCAVATOR, THE CONTRACTOR SHALL REMOVE THE EXISTING PLAY STRUCTURES COLUMNS AND FOOTINGS AND STORE FOR FUTURE REINSTALLATION.
4. THE CONTRACTOR SHALL STAKE OUT LOCATIONS OF ALL FOOTINGS AND COLUMNS FOR APPROVAL BY THE LANDSCAPE ARCHITECT APPROVAL PRIOR TO START OF RELOCATION.
5. ONCE APPROVED, THE CONTRACTOR SHALL EXCAVATE AREA FOR NEW INSTALLATION INSURING THAT THE GRADES CAN CCOMMODATE PLAYCOMPONENTS AND DEPTH OF WOOD CHIP SAFETY SURFACE WITHIN THE FALL ZONES.
6. THE CONTRACTOR SHALL INSTALL FOOTINGS AND COLUMNS TO BE LEVEL AND PLUMB AND SHALL REASSEMBLE ABOVE-GRADE COMPONENTS TO THEIR ORIGINAL ALIGNMENT USING NEW STAINLESS STEEL & NEOPRENE FASTENERS.
7. RELOCATE EXISTING RUBBER EDGING AROUND LIMITS OF PLAY AREA AND REMOVE EXITING WOOD CHIPS AND INSTALL NEW SUB BASE AND WOOD CHIPS AS SHOWN ON Detail 8/ L-1.2 .

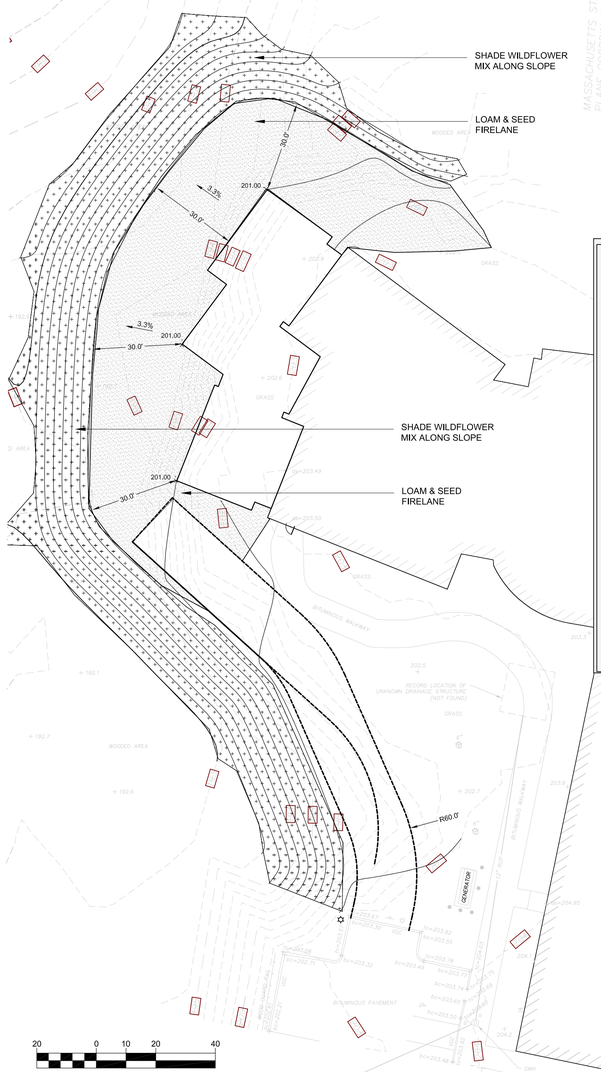
QUAN	BOTANICAL NAME	COMMON NAME	SIZE
	Trees		
2	Pinus strobus	White Pine	10'-12' ht
4	Acer Rubrum 'October Glory'	October Glory Red Maple	3½"-4" cal
2	Liquidambar styraciflua 'Moraine'	Moraine Sweetgum	3½"-4" cal
6	Abies concolor	White Fir	10-12' ht
6	Picea pungens	Blue Spruce	10'-12' ht
2	Cornus florida	Pink Flowering Dogwood	2 ½"-3" cal
1	Malus 'Adirondack'	White Flowering Crabapple	21/2"-3" cal
2	Malus 'Adams'	Red Flowering Crabapple	2 ½"-3" cal
	Shrubs		
1	Ilex x meserveae 'China Boy'	China Boy Holly	3'-3½' ht
3	Ilex x meserveae 'China Girl'	China Girl Holly	3'-3½' ht
1	Rhododendron 'Aglo'	Aglo Rhododendron	2'-2½' ht
2	Rhododendron 'Blaauw's Pink'	Blaauw's Pink Azalea	2'-2½' ht
1	Rhododendron canadense	Rhodora Azalea	2'-2½' ht
3	Rhododendron catawba 'Boursault'	Boursault Rhododendron	3½'-4' ht
5	Viburnum 'Arrowood'	Arrowood Viburnum	3½'-4' ht
4	Viburnum 'Onondaga'	Onondaga Viburnum	3½'-4' ht

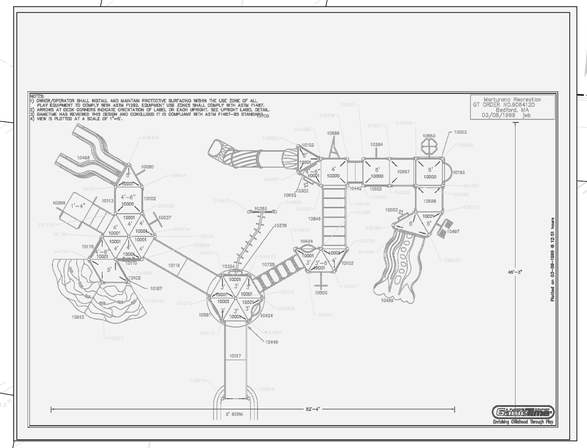
A PLANT LIST

B EXISTING PLAY EQUIPMENT TO BE MOVED

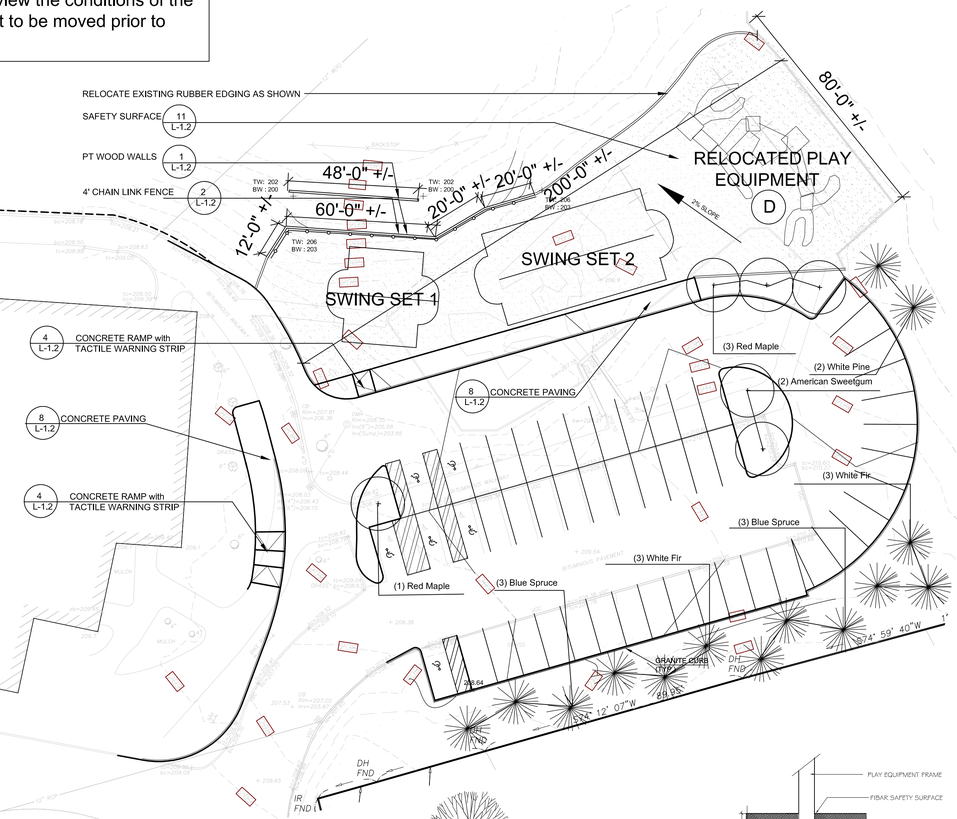
C EXISTING SWINGS (2) TO BE MOVED

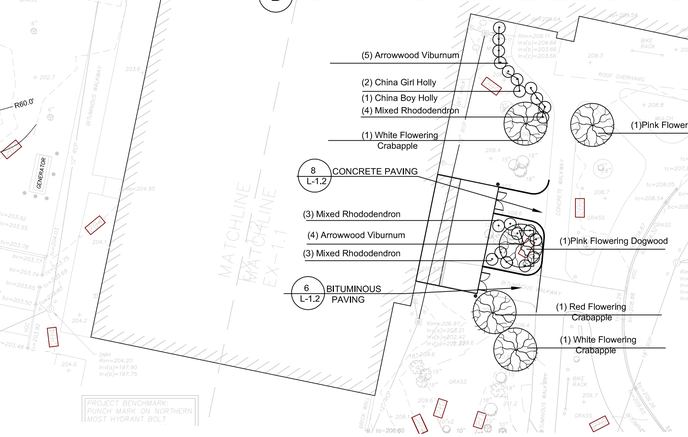
NOTE: The Contractor shall review the conditions of the existing site and play equipment to be moved prior to submitting a bid for this work.

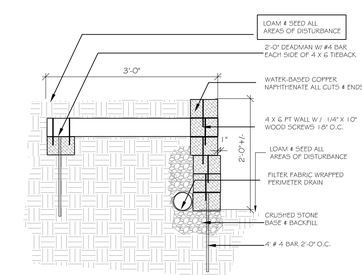




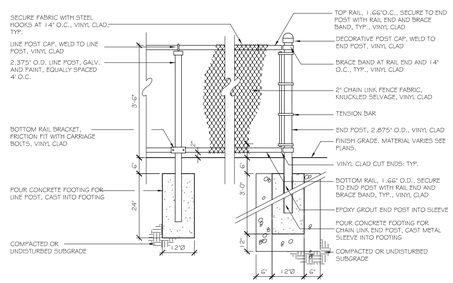
D EXISTING PLAY EQUIPMENT TO BE RELOCATED ON SITE



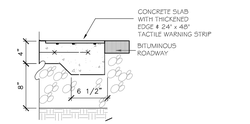




1 PT WOOD RETAINING WALL



2 42" CHAIN LINK FENCE



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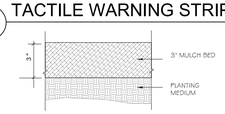

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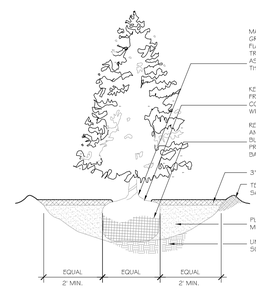
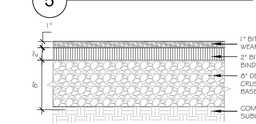
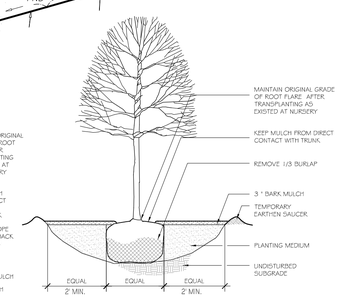


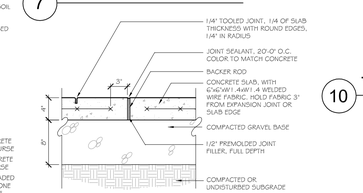
5 EVERGREEN TREE



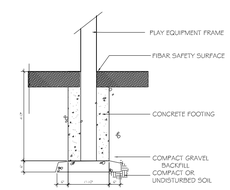
6 BITUMINOUS WALK



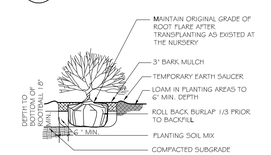
7 DECIDUOUS TREE



8 CONCRETE WALK



9 EQUIPMENT FOOTING



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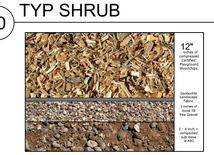

11 WOOD CHIP SAFETY SURFACE

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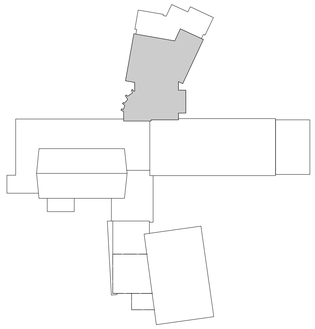
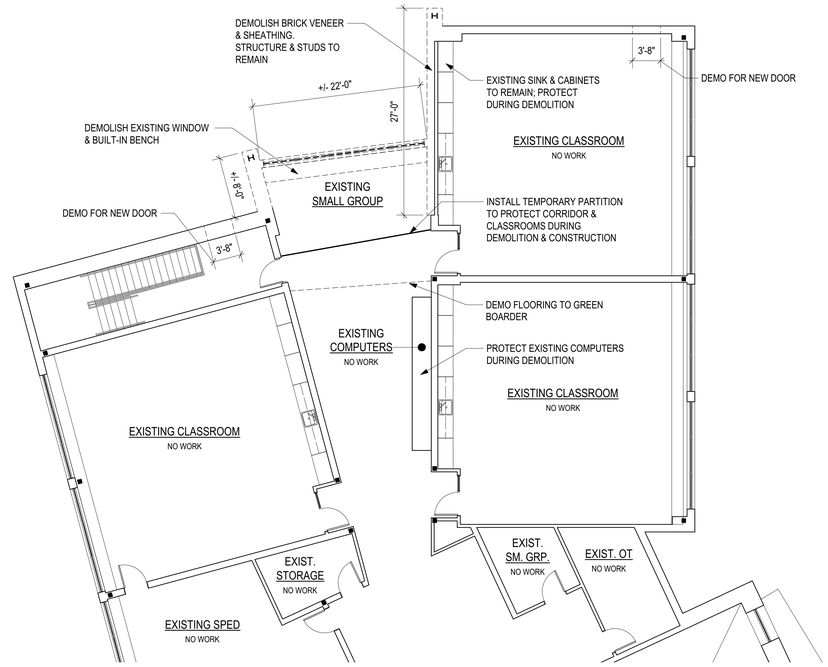
PROPOSED LANDSCAPE IMPROVEMENTS PLAN ALT No. 2

TBA PROJECT # 1258

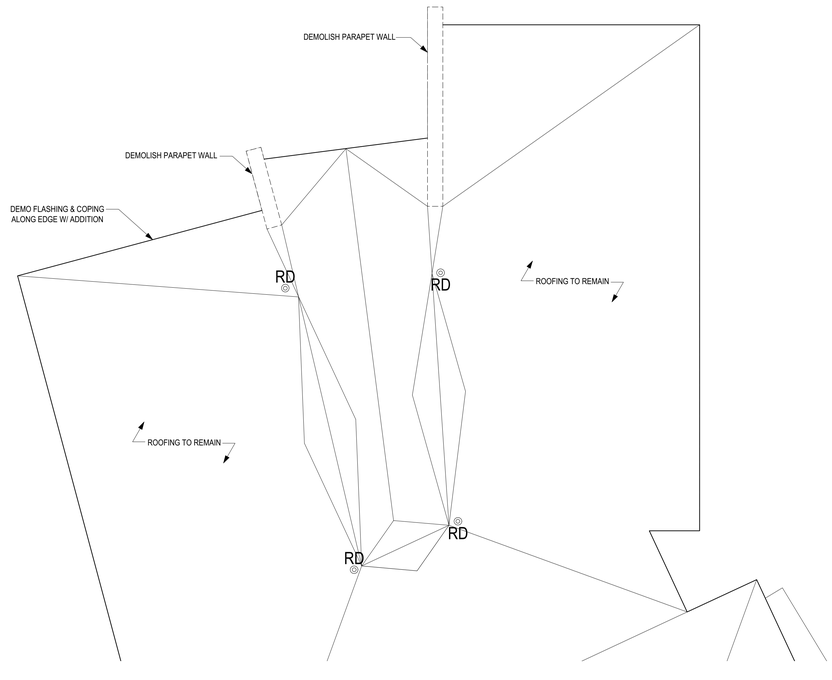
L1.2



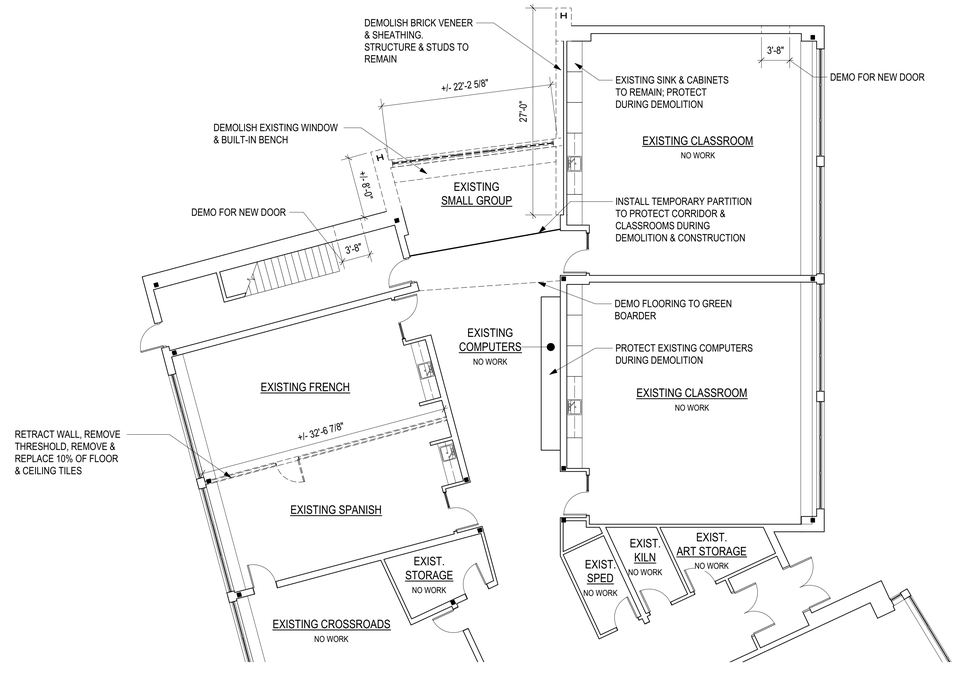
KEY PLAN



SECOND FLOOR DEMOLITION PLAN



ROOF DEMOLITION PLAN



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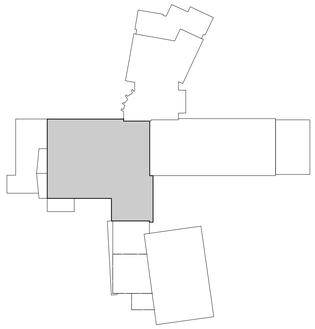
DEMOLITION PLANS AT WEST ADDITION

TBA PROJECT # 1258

D-1.0



KEY PLAN

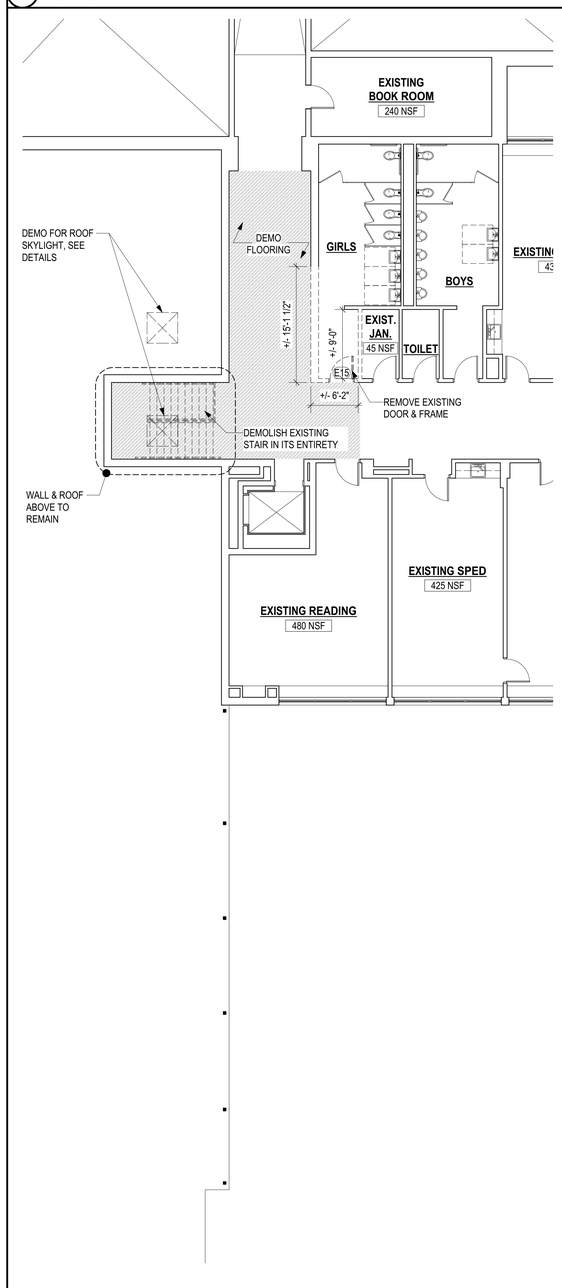
DEMOLISH PARTITION / CABINETRY UNLESS NOTED FOR STORAGE AND REUSE.

REMOVE, LABEL AND STORE NUMBERED DOORS.

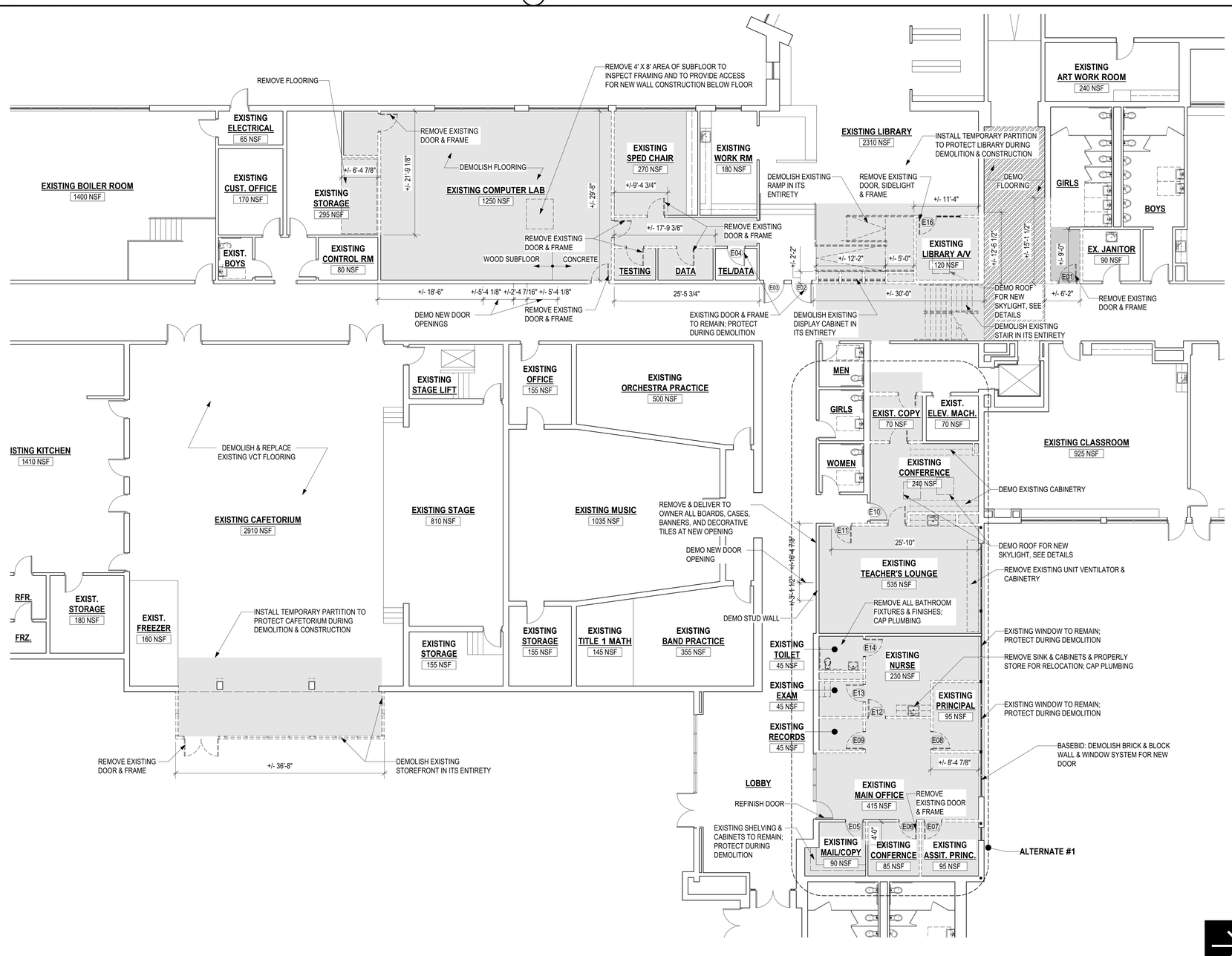
DEMOLISH FLOORING AND CEILING IN SHADED AREAS.

DEMO NOTES

DEMO LEGEND



DEMO PARTIAL SECOND FLOOR PLAN



DEMO FIRST FLOOR PLAN

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DEMOLITION PLANS AT RENOVATION AREAS

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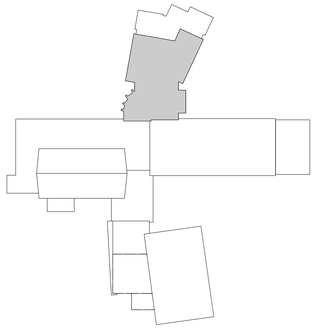
D-1.1



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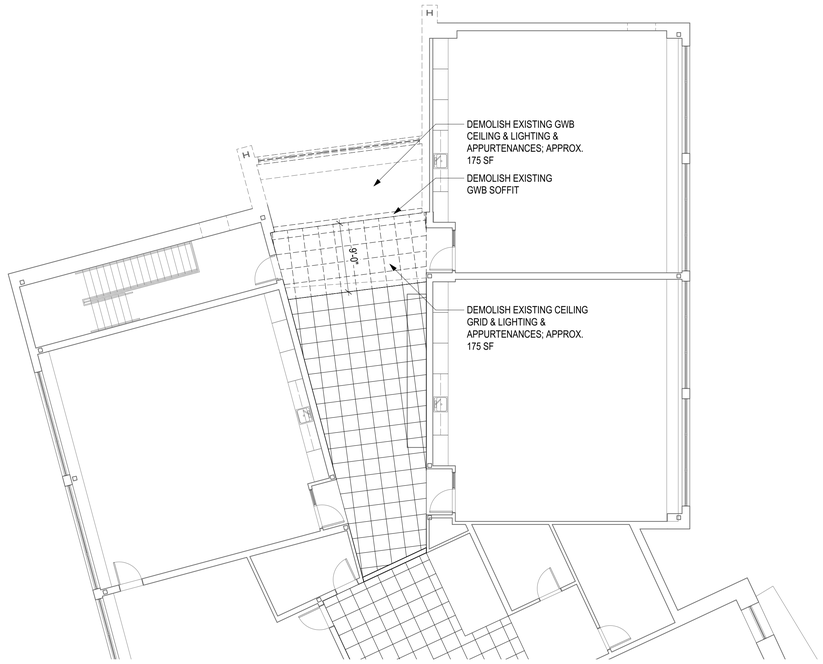

SECOND FLOOR DEMOLITION PLAN

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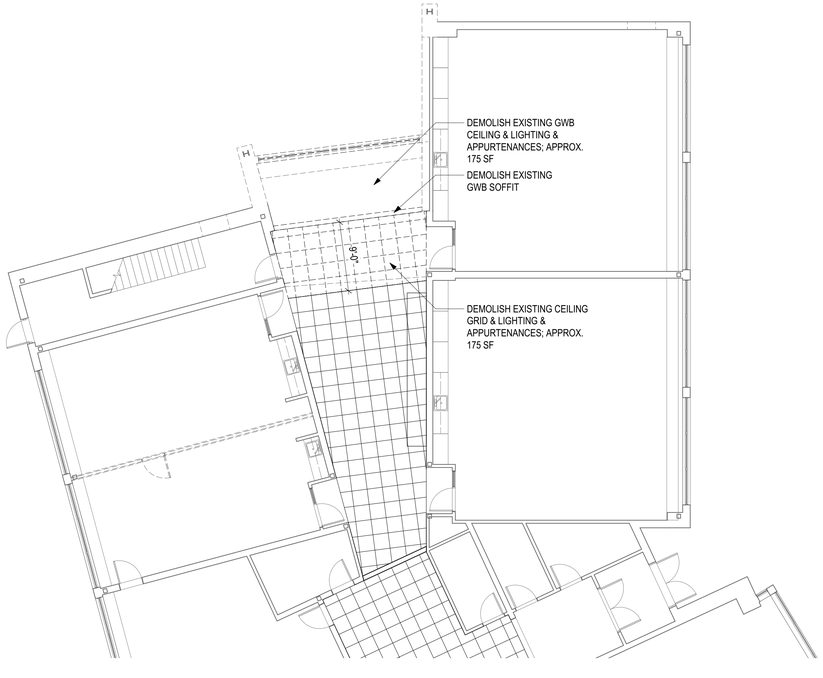

FIRST FLOOR DEMOLITION PLAN

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DEMOLITION REFLECTED CEILING PLANS AT WEST ADDITION

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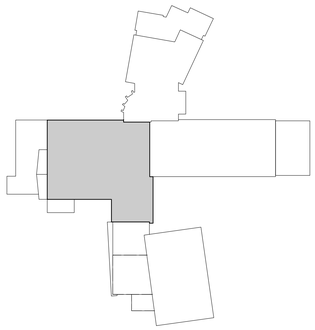
D-1.2



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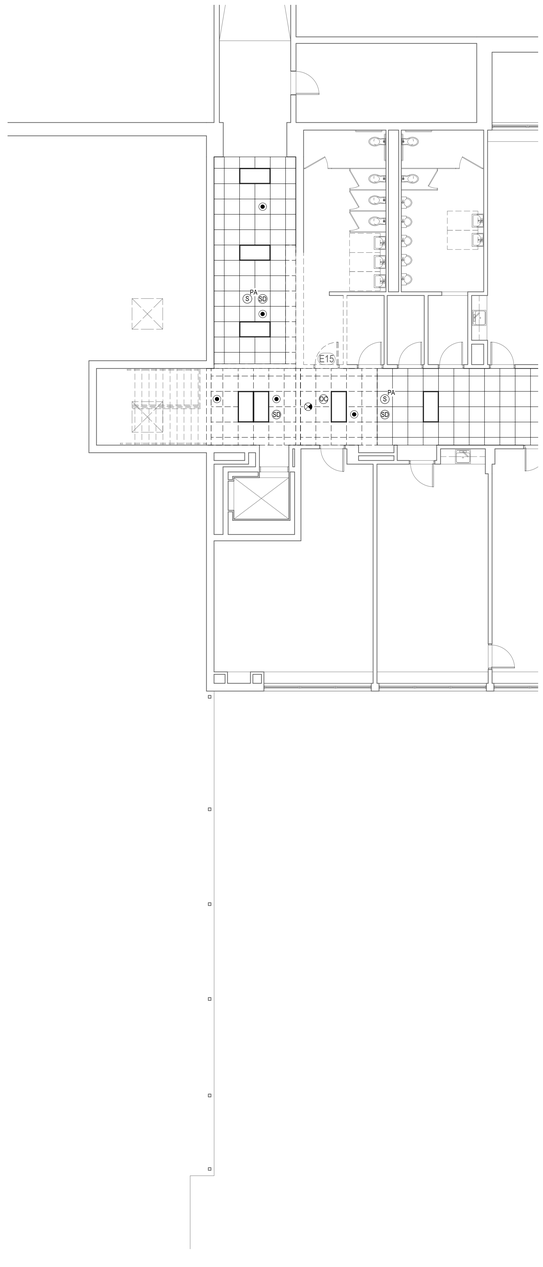
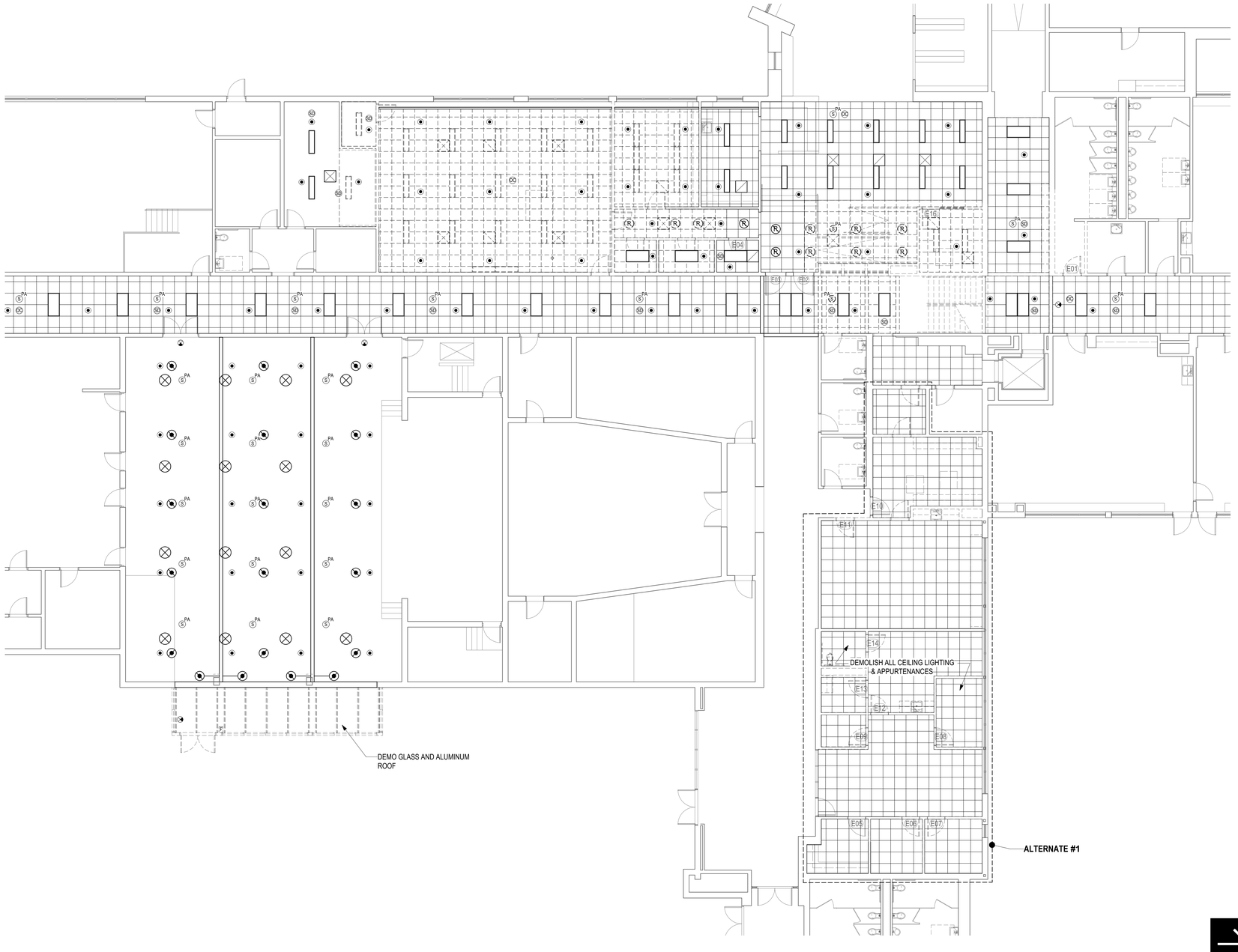


PARTIAL SECOND FLOOR DEMO RCP



FIRST FLOOR DEMO RCP

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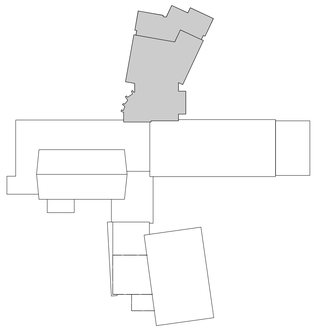
DEMOLITION REFLECTED CEILING PLANS AT RENOVATION AREAS

TBA PROJECT # 1258

D-1.3



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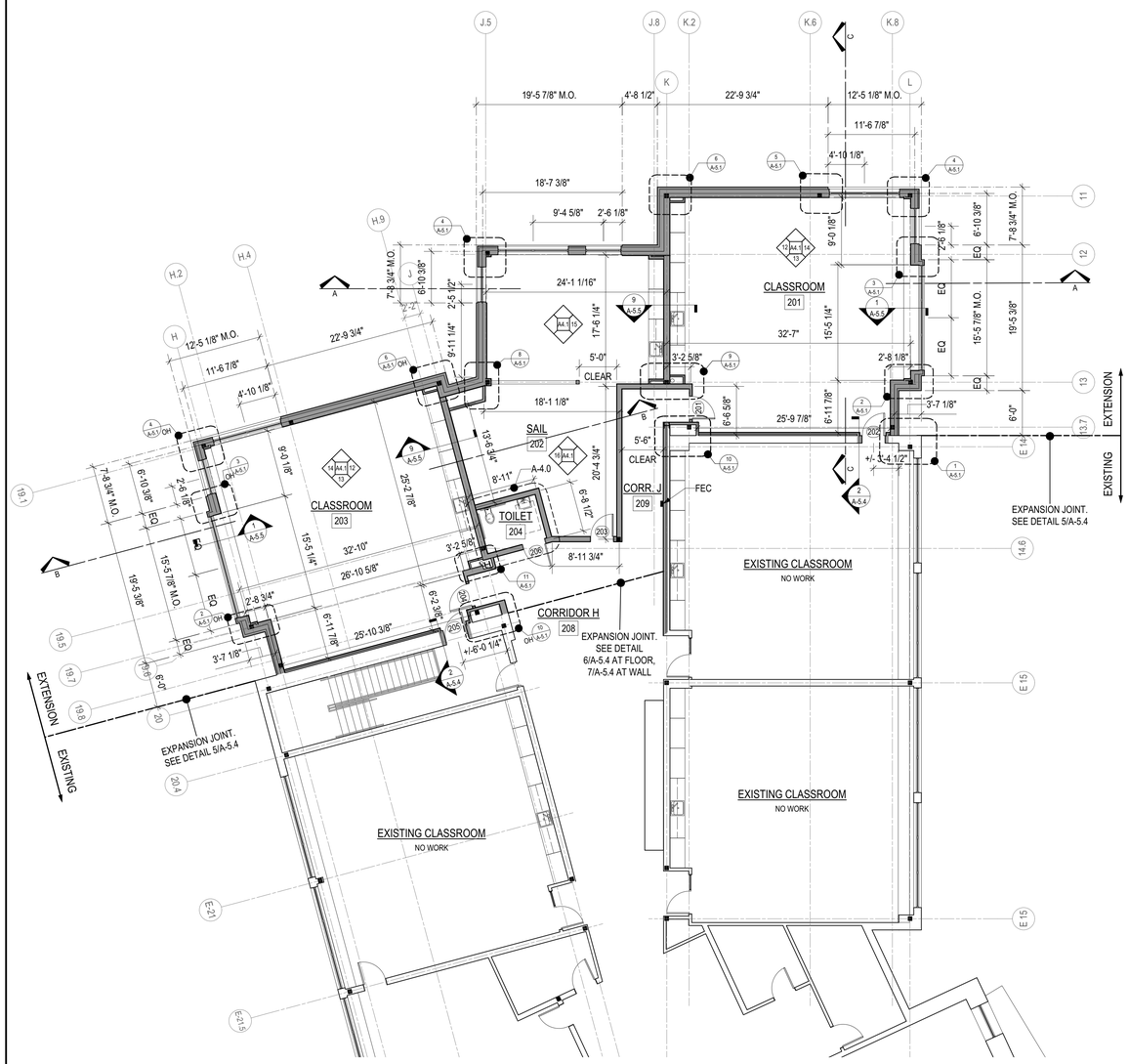
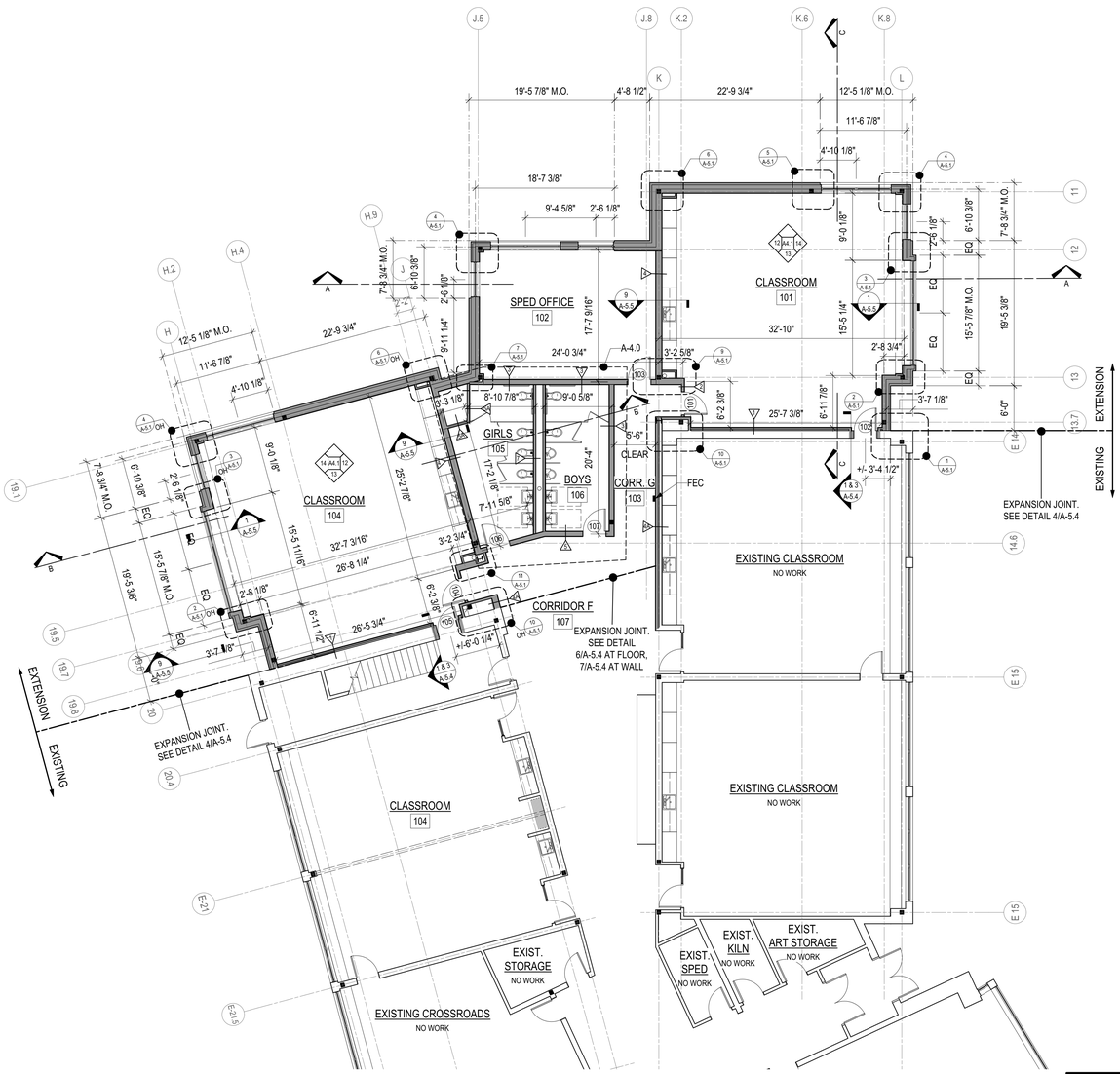


PROPOSED SECOND FLOOR PLAN



PROPOSED FIRST PLAN

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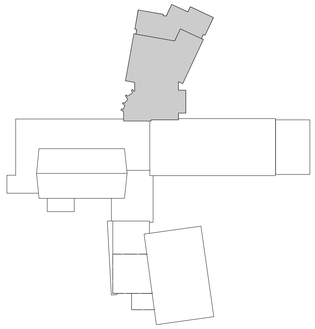
PROPOSED FLOOR PLANS AT WEST ADDITION

TBA PROJECT # 1258

A-1.0



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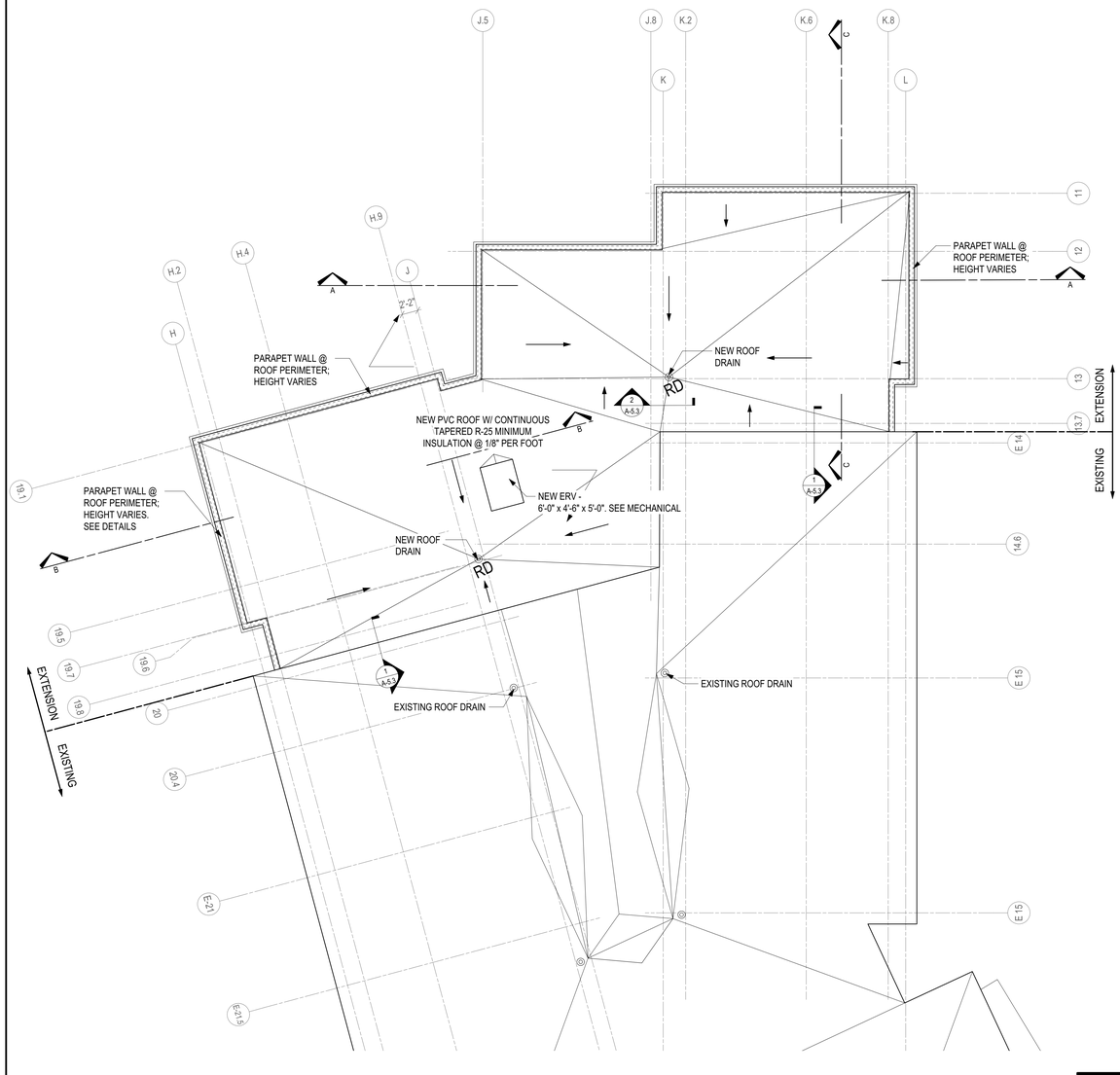

PROPOSED ROOF PLAN

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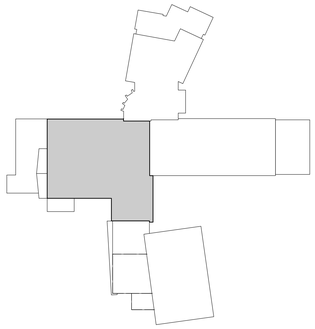
SCALE
1/8" = 1'-0" ON ORIGINAL
0 2 4 8

PROPOSED ROOF PLAN AT WEST ADDITION

TBA PROJECT # 1258

A-1.1



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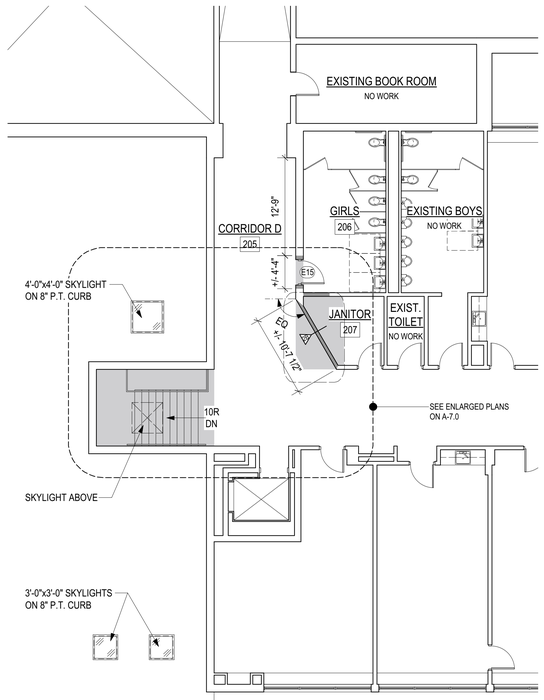
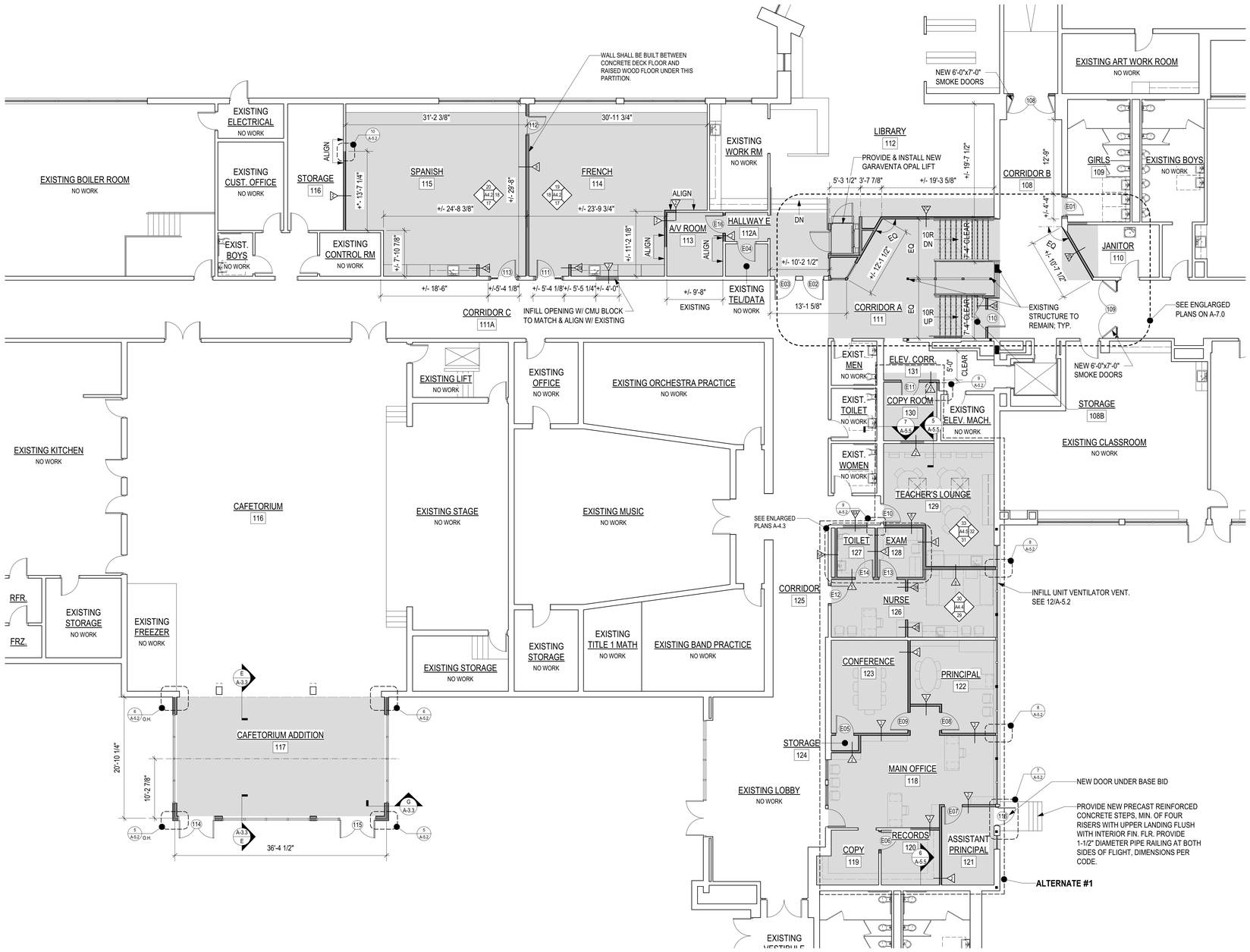


PROPOSED PARTIAL SECOND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN

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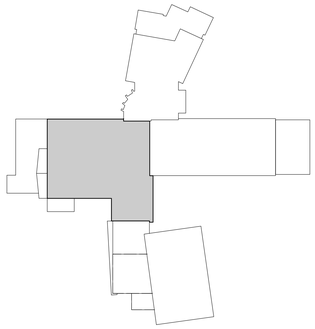
PROPOSED FLOOR PLANS AT RENOVATION AREAS

TBA PROJECT # 1258

A-1.2



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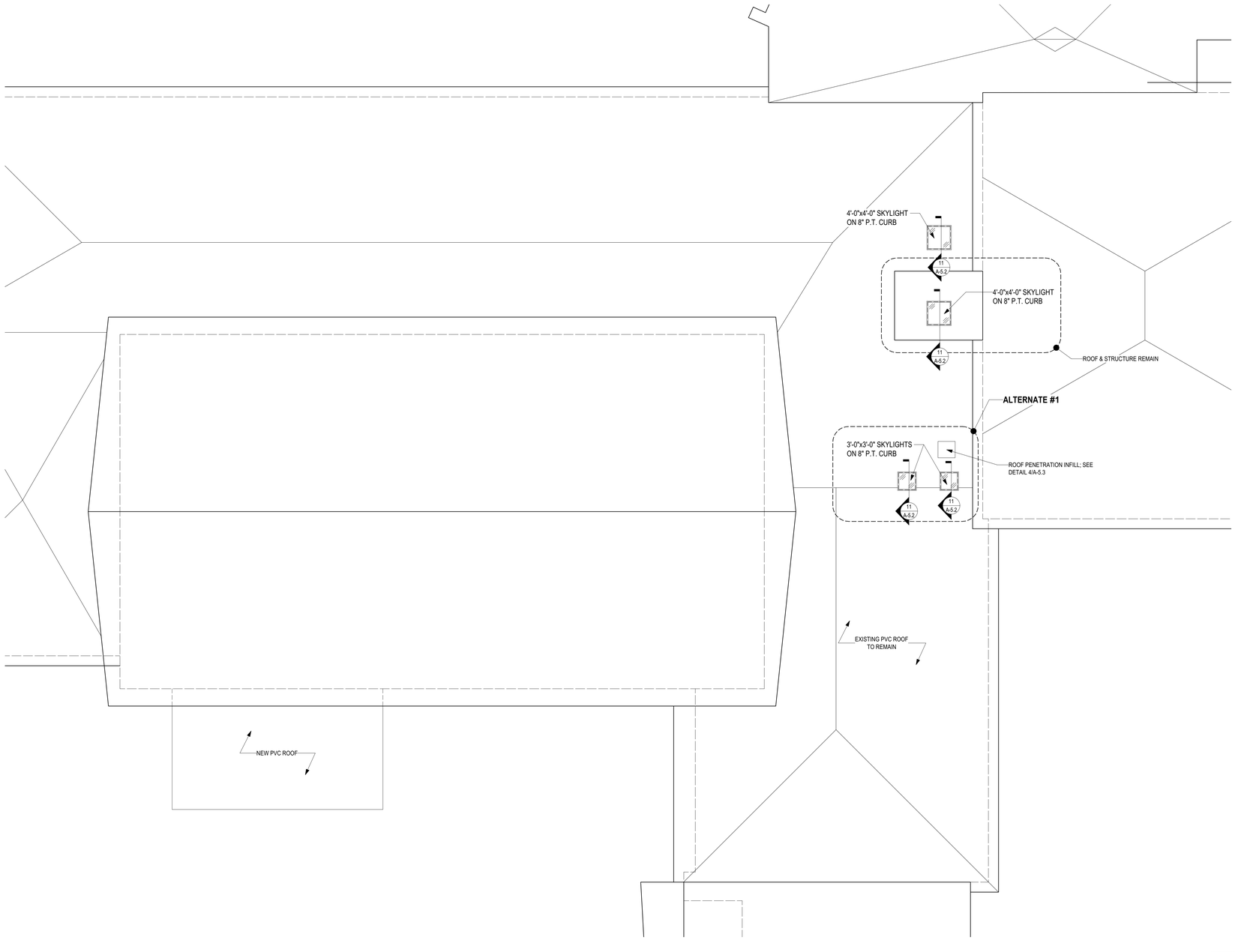

PROPOSED ROOF PLAN

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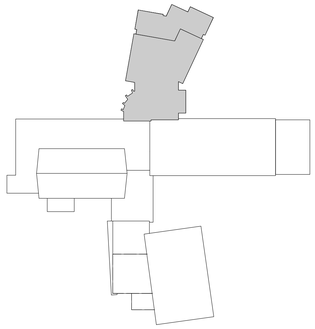
PROPOSED ROOF PLAN AT RENOVATION AREAS

TBA PROJECT # 1258

A-1.3



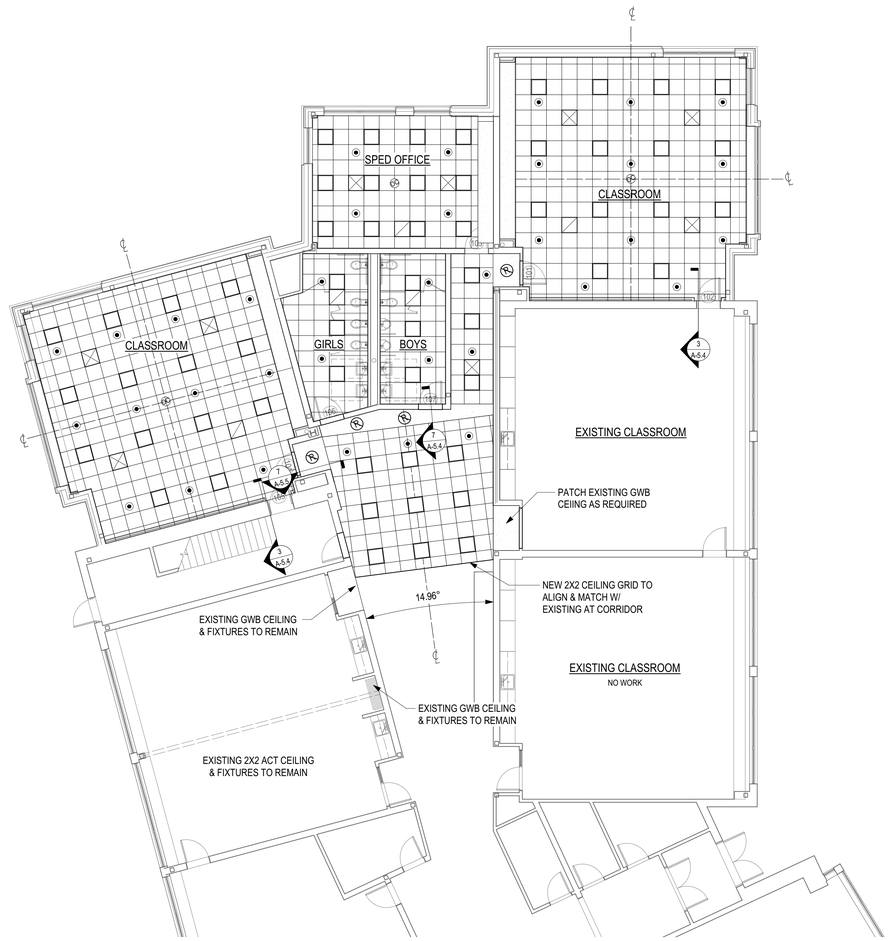
KEY PLAN

PROPOSED SECOND FLOOR PLAN

CEILING FIXTURE LEGEND

- 2X2 LIGHT FIXTURE
- 2X2 ACOUSTIC TILE CEILING
- RECESSED DOWNLIGHT
- SURFACE MOUNTED DOWNLIGHT
- GWB SOFFIT
- HVAC SUPPLY
- HVAC RETURN
- PENDANT SPRINKLER HEAD
- OCCUPANCY SENSOR

****SEE MECHANICAL, ELECTRICAL & FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS**



PROPOSED FIRST PLAN

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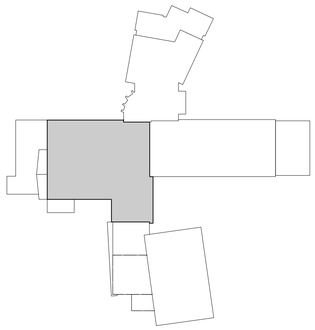
PROPOSED REFLECTED CEILING PLANS AT WEST ADDITION

TBA PROJECT # 1258

A-1.4

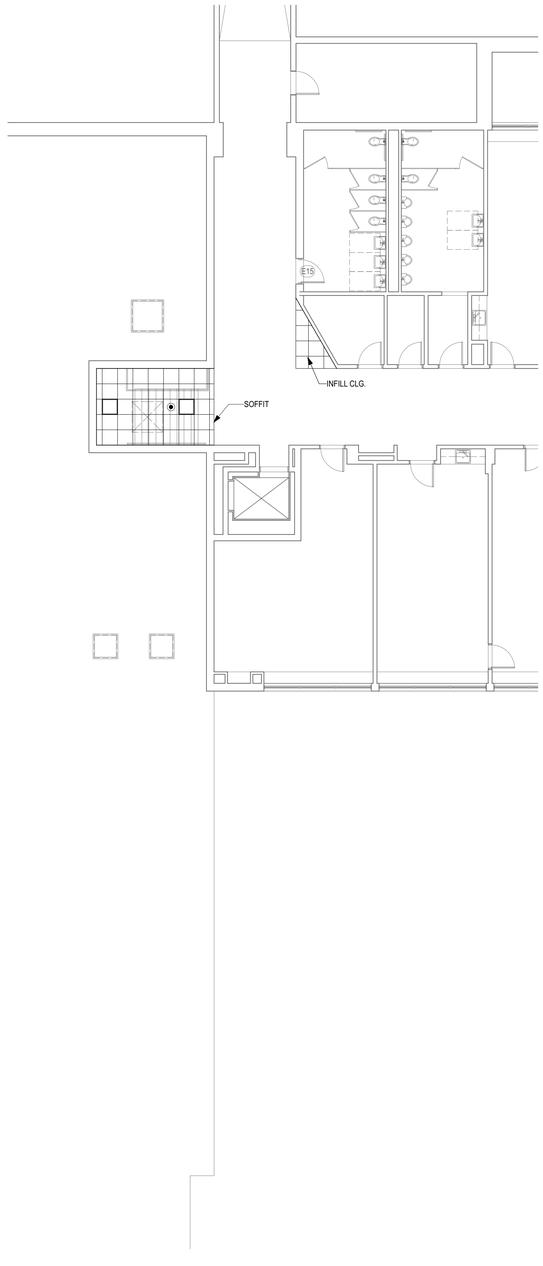


KEY PLAN

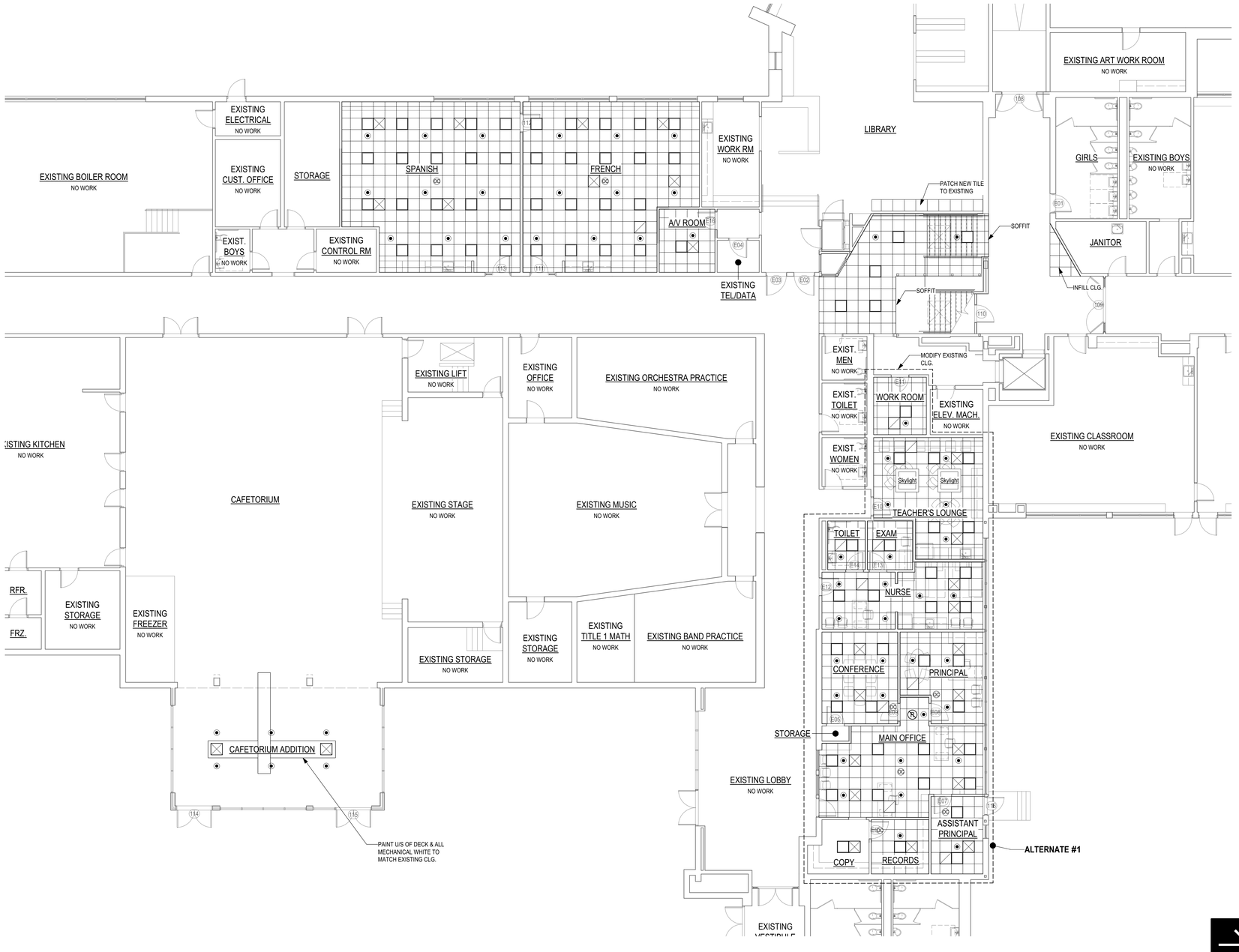
CEILING FIXTURE LEGEND

- 2X2 LIGHT FIXTURE
- 2X2 ACOUSTIC TILE CEILING
- RECESSED DOWNLIGHT
- SURFACE MOUNTED DOWNLIGHT
- GWB SOFFIT
- HVAC SUPPLY
- HVAC RETURN
- PENDANT SPRINKLER HEAD
- OCCUPANCY SENSOR

**SEE MECHANICAL, ELECTRICAL & FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS



PROPOSED PARTIAL SECOND FLOOR RCP



PROPOSED FIRST FLOOR RCP

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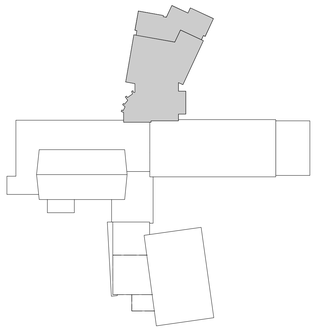
PROPOSED FLOOR REFLECTED CEILING PLANS AT RENOVATION AREA

TBA PROJECT # 1258

A-1.5



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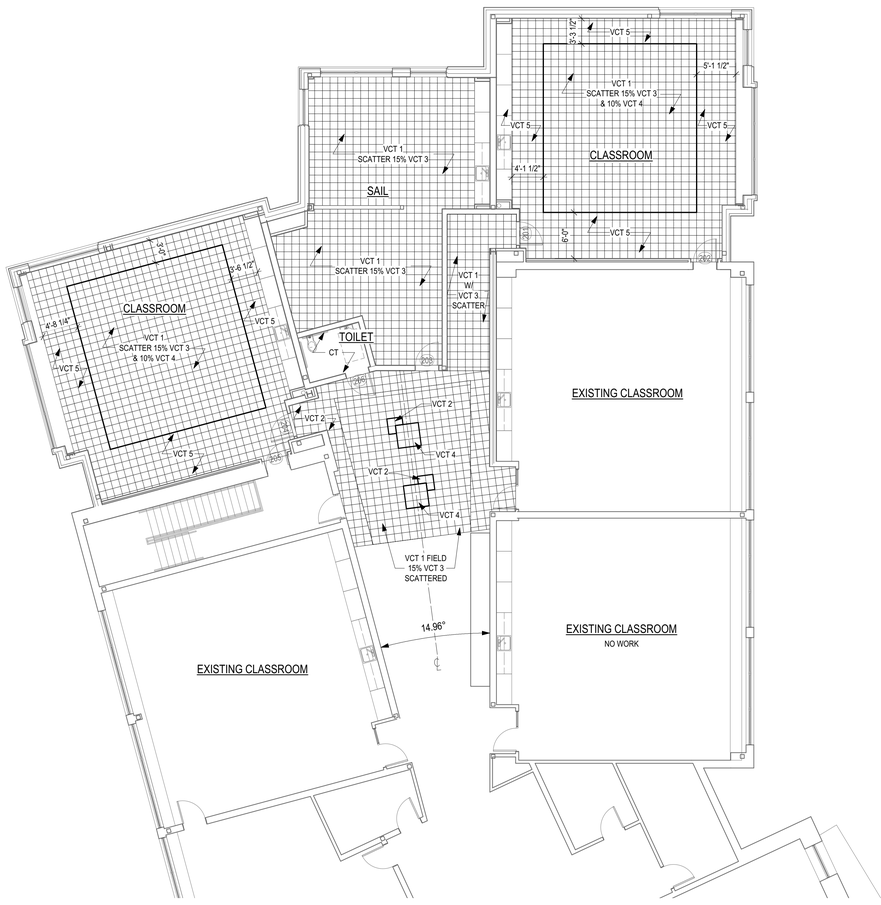
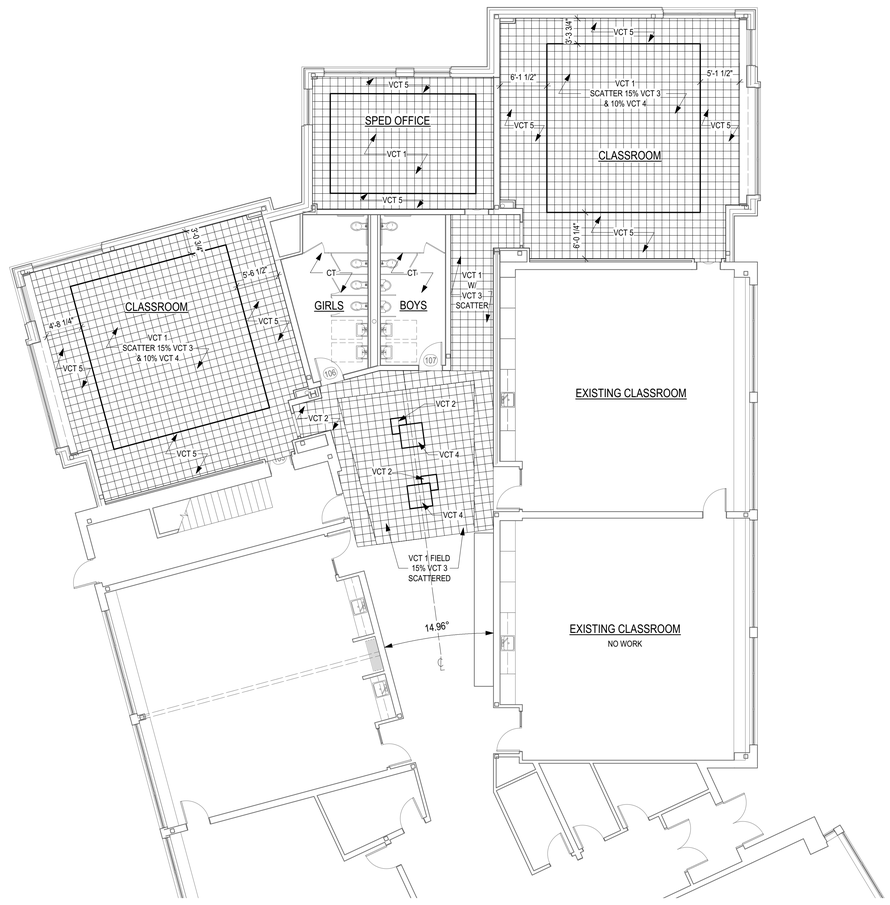


SECOND FLOOR FINISHES PLAN



FIRST FLOOR FINISHES PLAN

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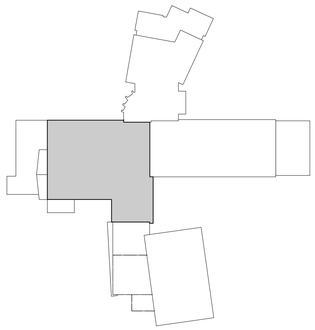
PROPOSED FLOOR FINISHES PLANS AT WEST ADDITION

TBA PROJECT # 1258

A-1.6



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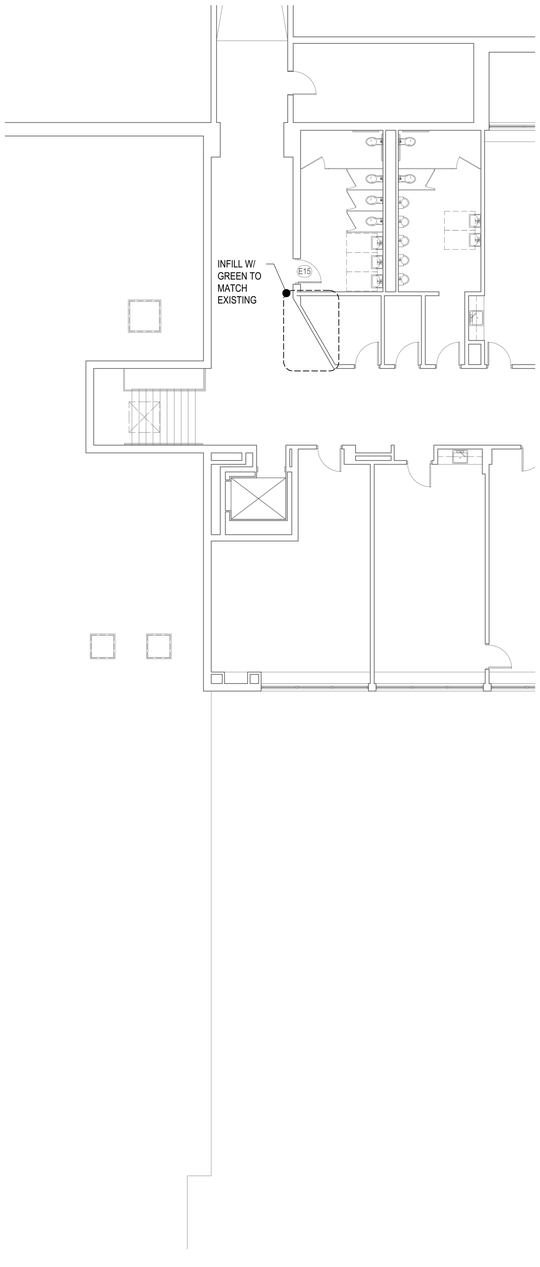
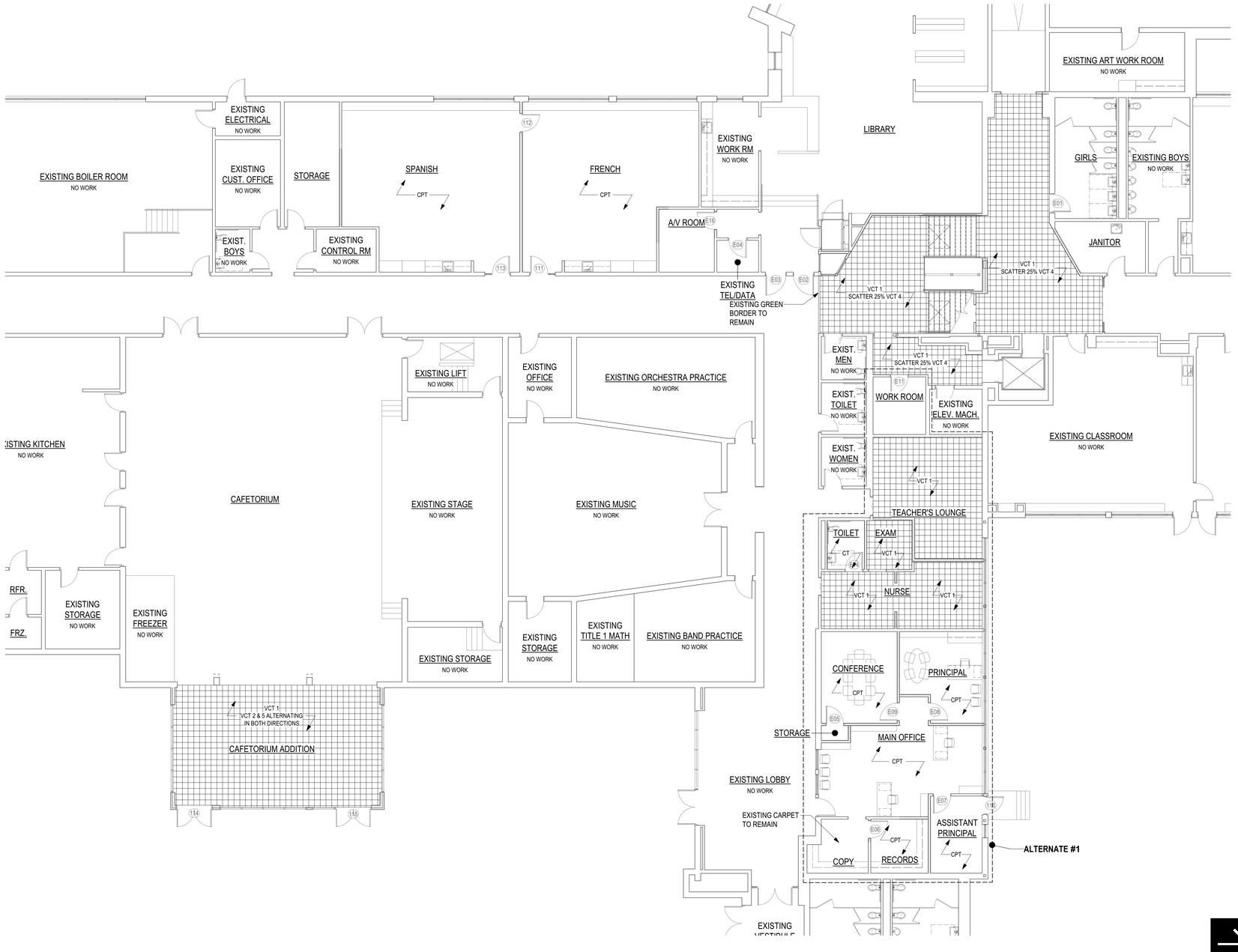


PARTIAL SECOND FLOOR FINISHES PLAN



FIRST FLOOR FINISHES PLAN

PROJECT NORTH

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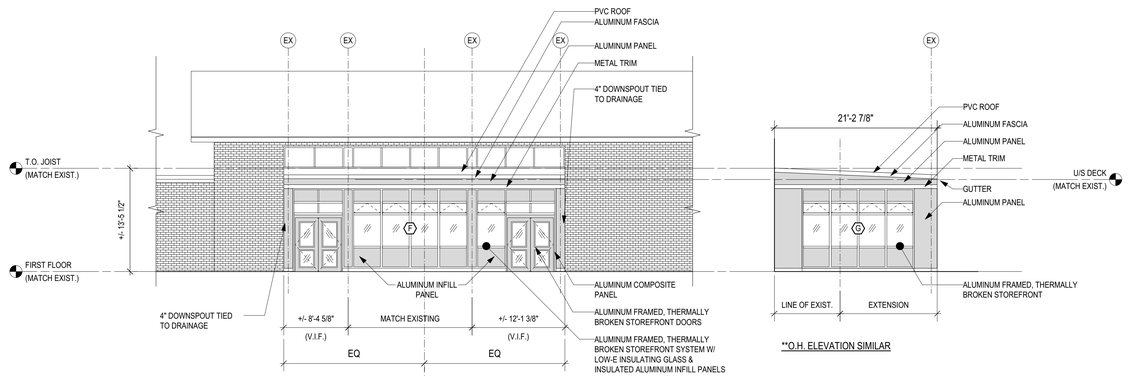
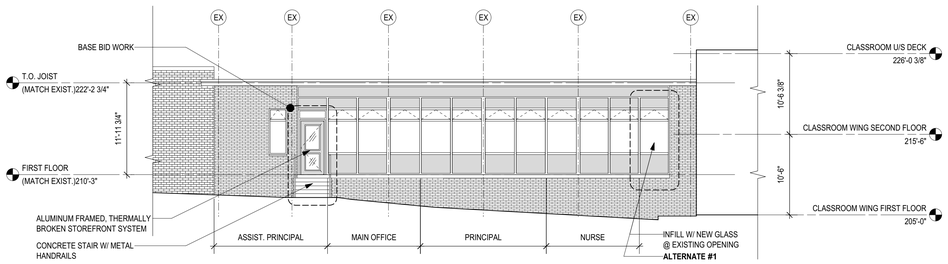
PROPOSED FLOOR FINISHES PLANS AT RENOVATION AREAS

TBA PROJECT # 1258

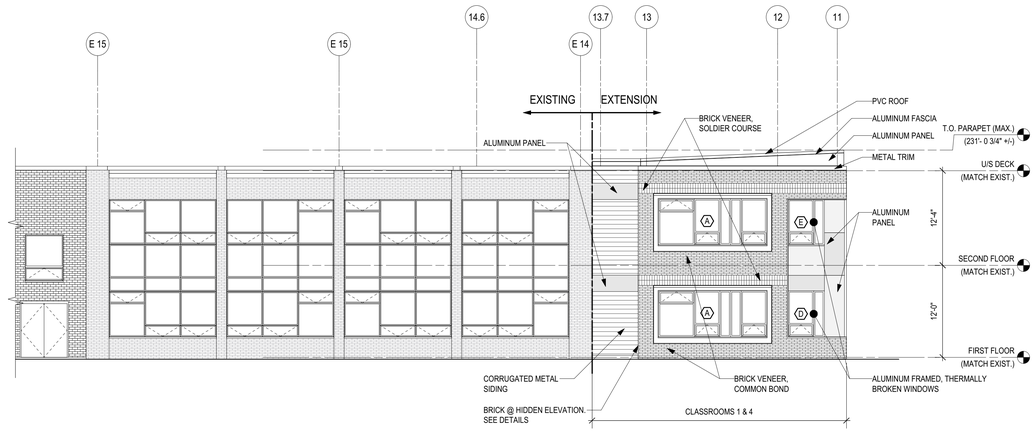
A-1.7



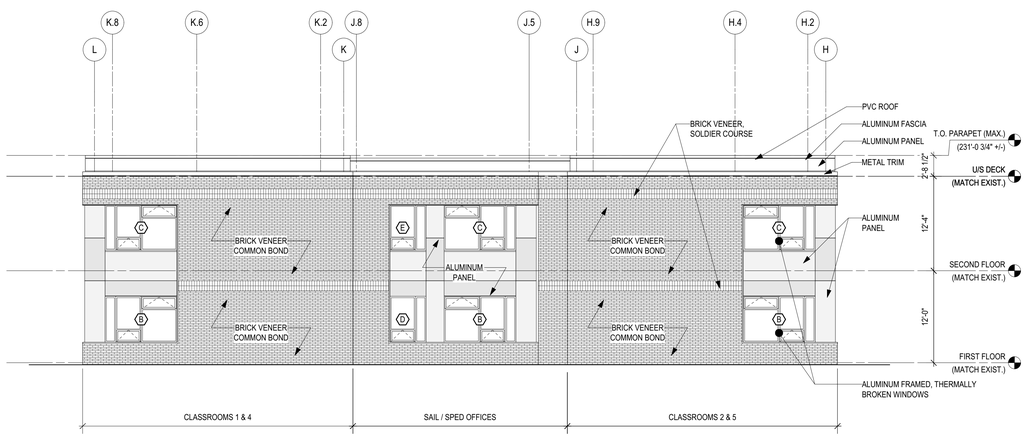
PROPOSED CAFETORIUM ELEVATIONS



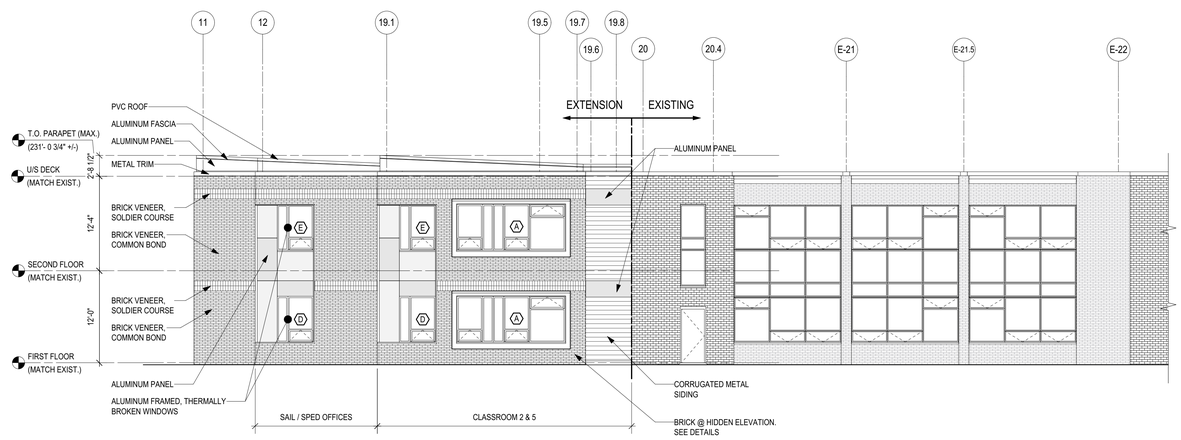
PROPOSED MAIN OFFICE ELEVATION



PROPOSED NORTH ELEVATION



PROPOSED WEST ELEVATION



PROPOSED SOUTH ELEVATION

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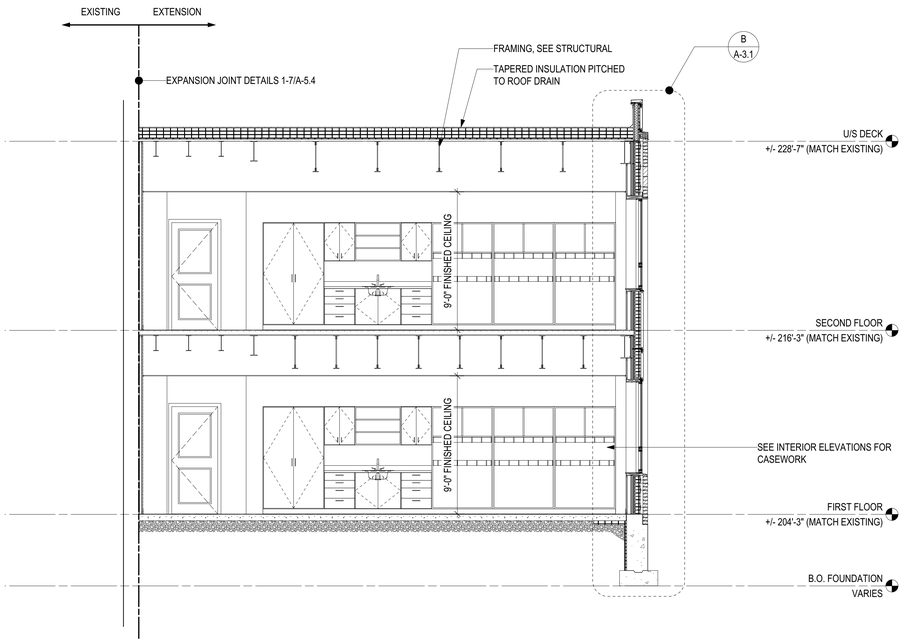
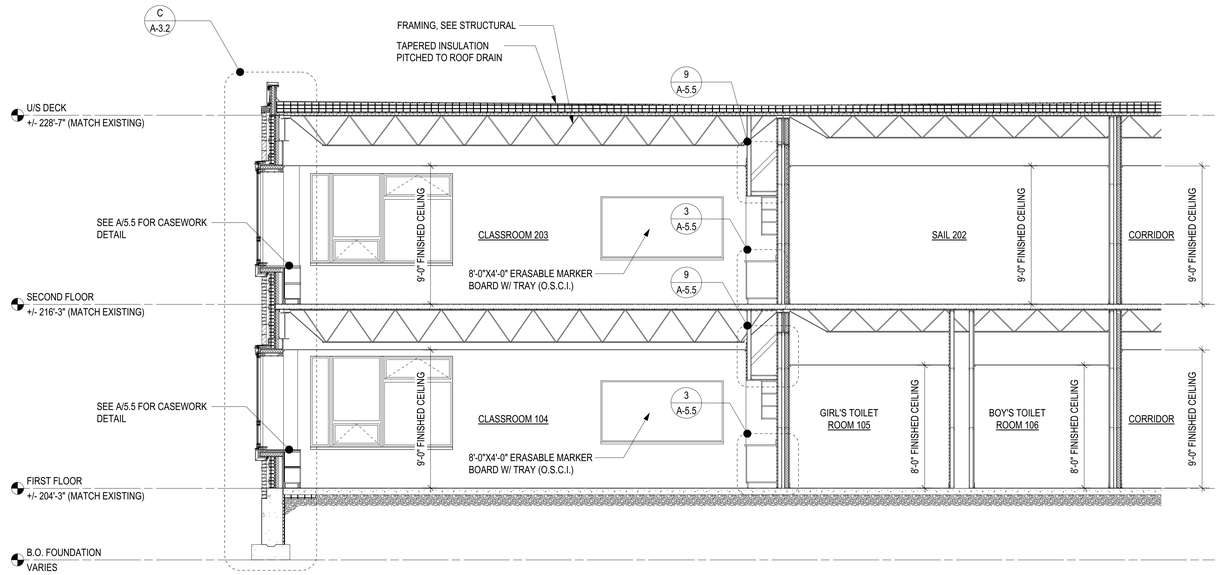
PROPOSED EXTERIOR ELEVATIONS

TBA PROJECT # 1258

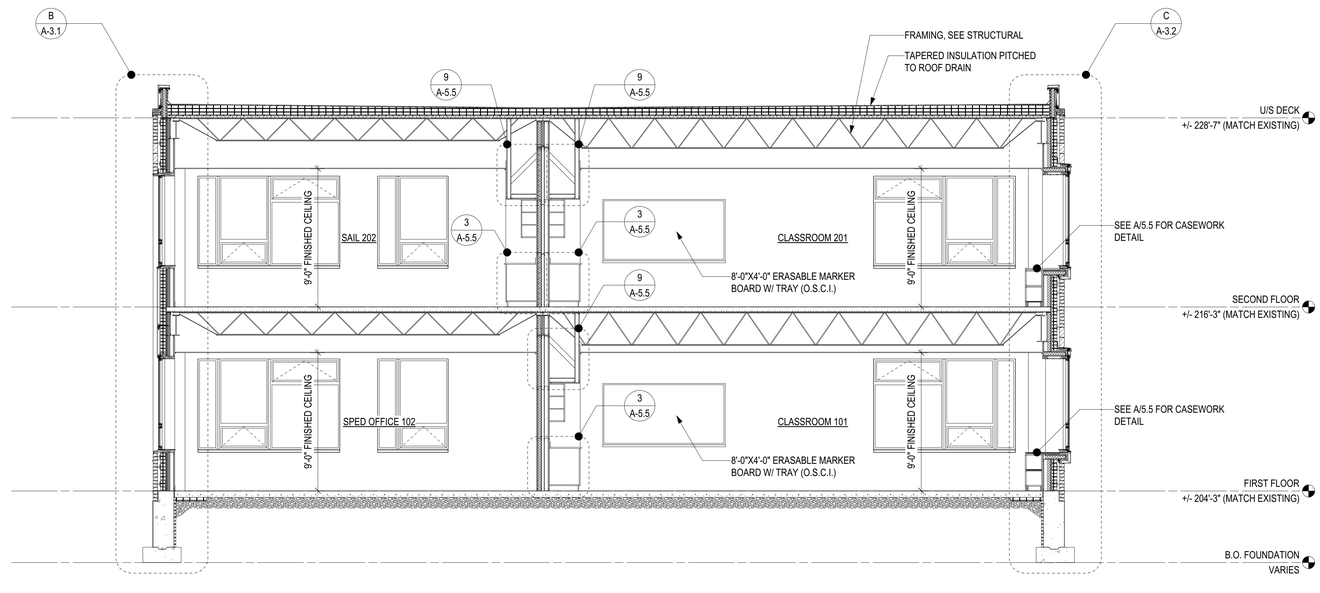
A-2.0



SECTION C-C



SECTION B-B



SECTION A-A

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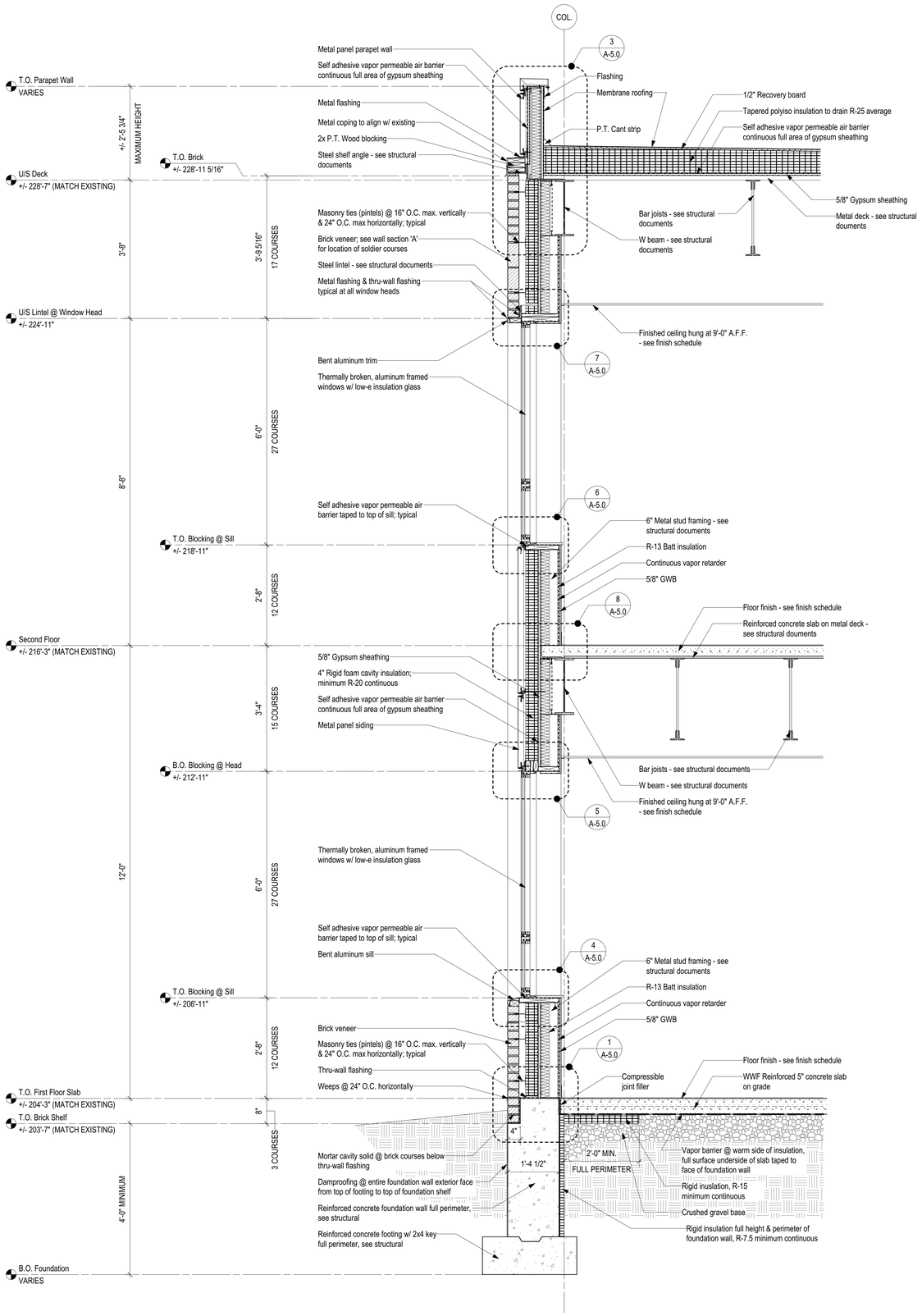
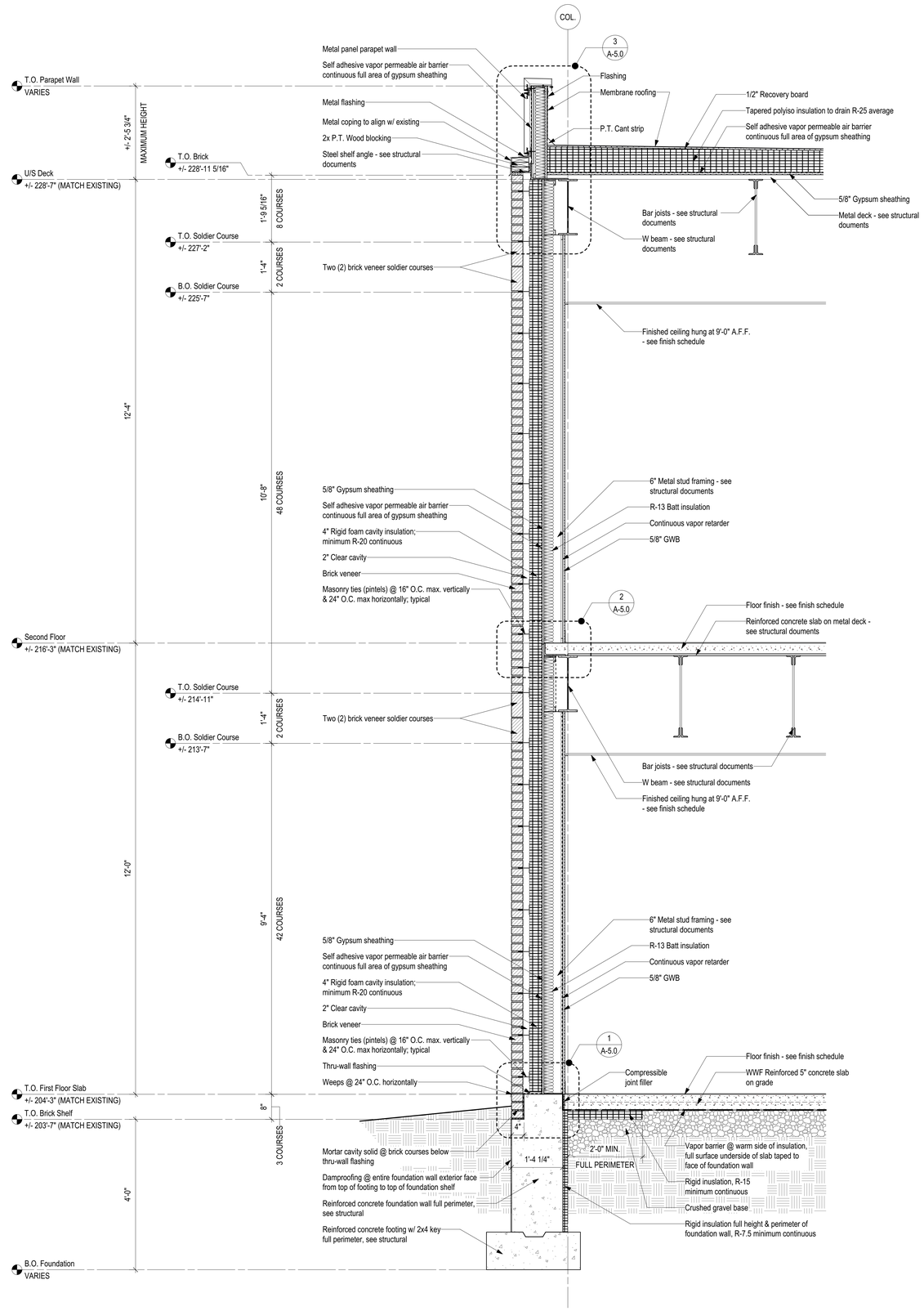
PROPOSED BUILDING SECTIONS AT NEW WEST ADDITION

TBA PROJECT # 1258

A-3.0



B WALL SECTION @ RECESSED WINDOW BAYS
3/4" = 1'-0"



A WALL SECTION @ BRICK
3/4" = 1'-0"

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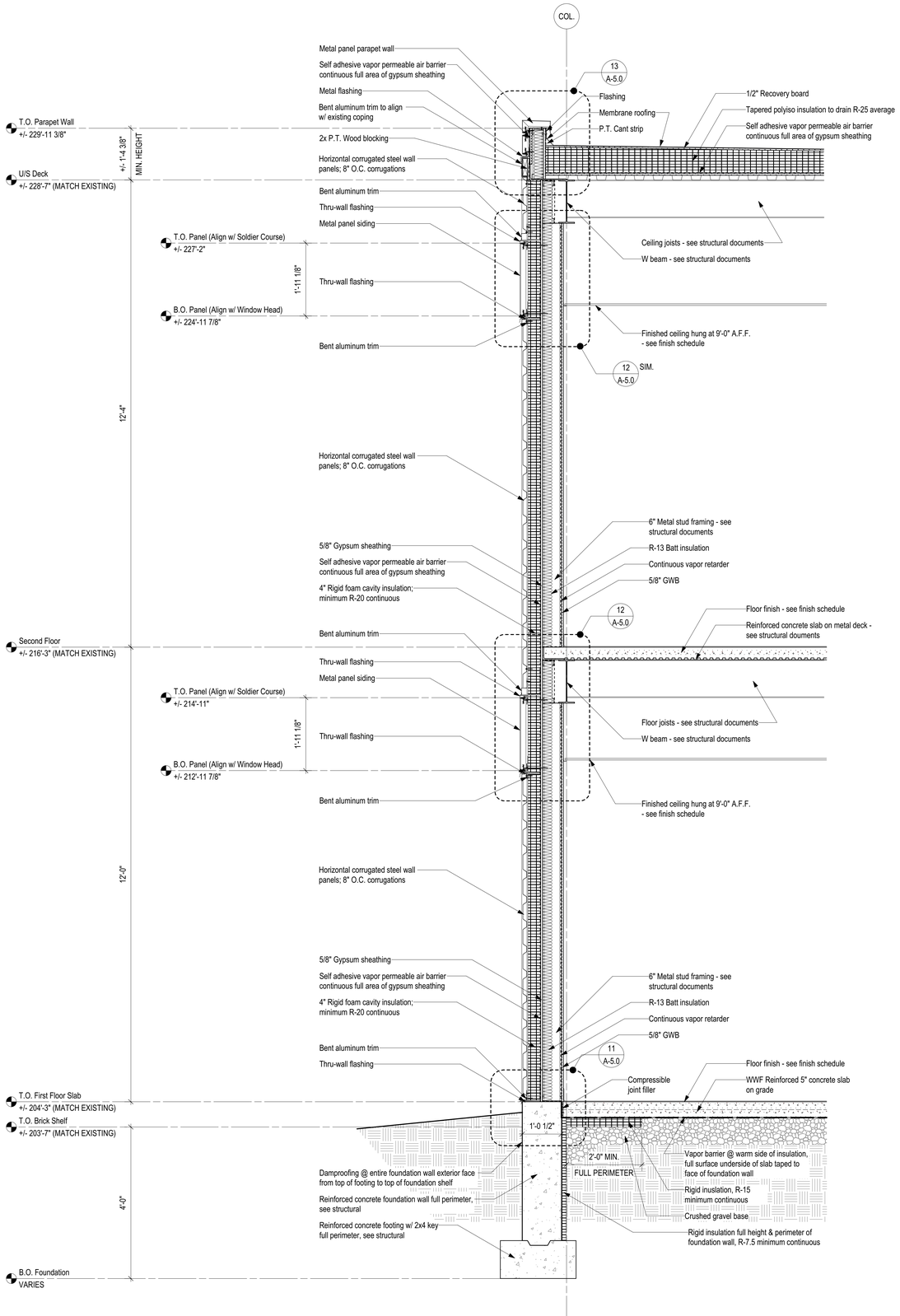
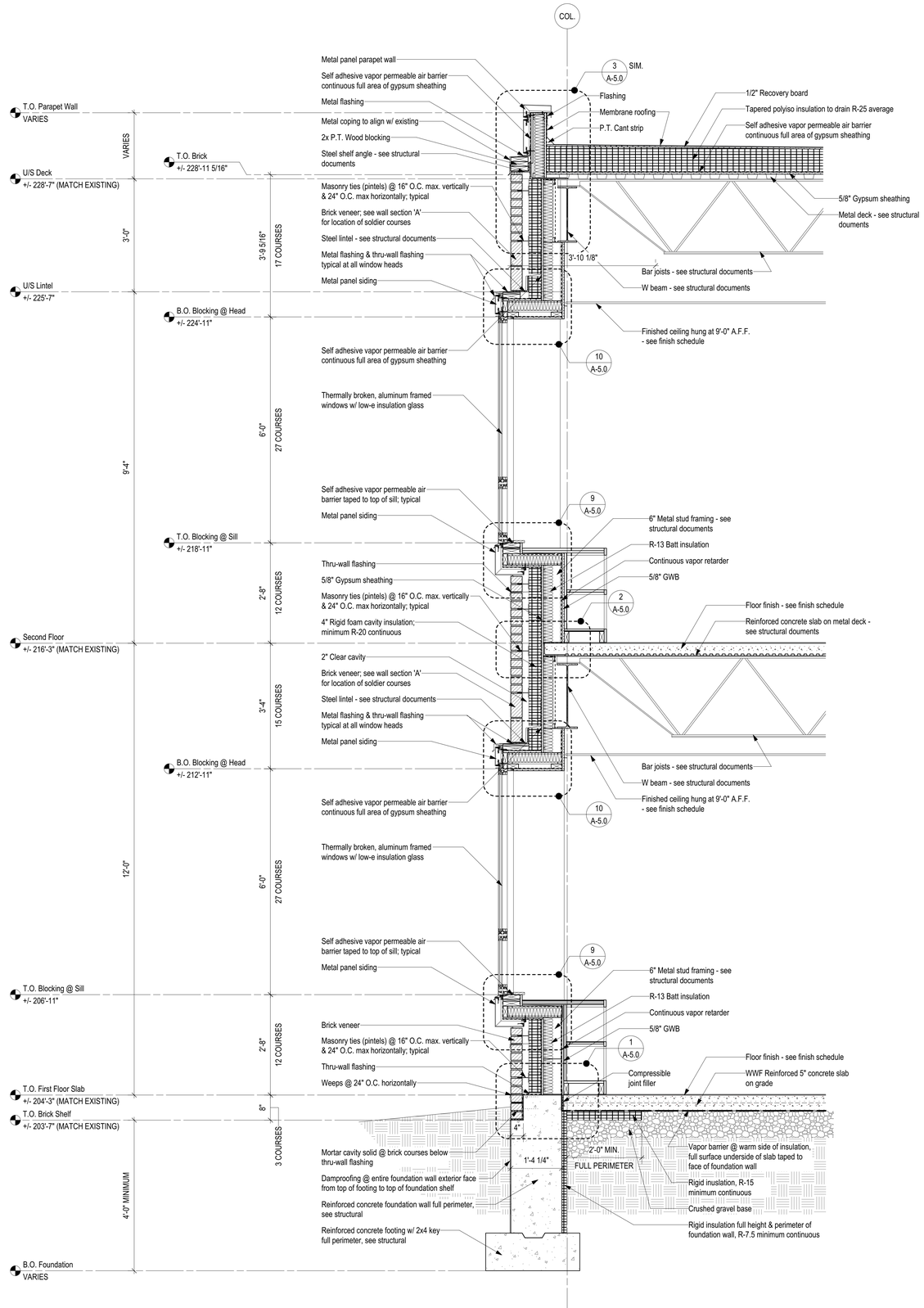
WALL SECTIONS AT CLASSROOM ADDITION

TBA PROJECT # 1258

A-3.1



D WALL SECTION @ METAL PANEL
3/4" = 1'-0"



C WALL SECTION @ PROJECTED WINDOW BAYS
3/4" = 1'-0"

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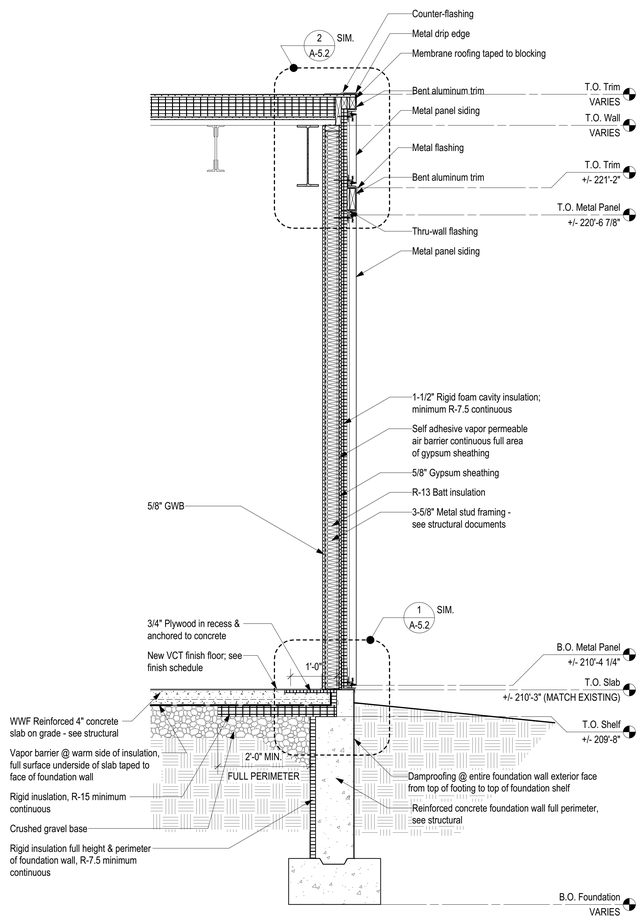
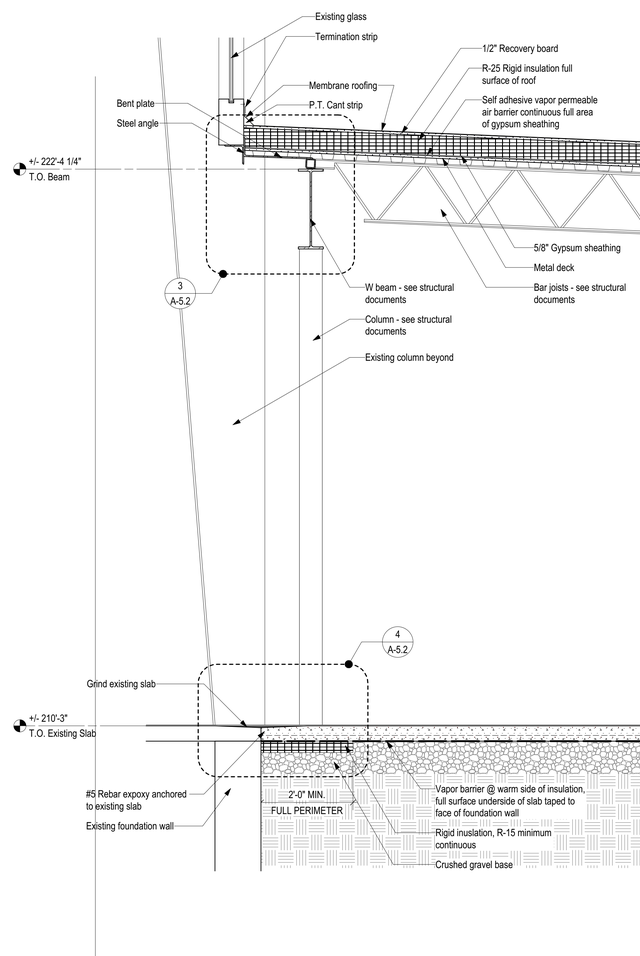
WALL SECTIONS AT CLASSROOM ADDITION

TBA PROJECT # 1258

A-3.2



G WALL SECTION @ METAL PANEL WALL
3/4" = 1'-0"



F WALL SECTION @ EXISTING CAFETORIUM EXTERIOR WALL
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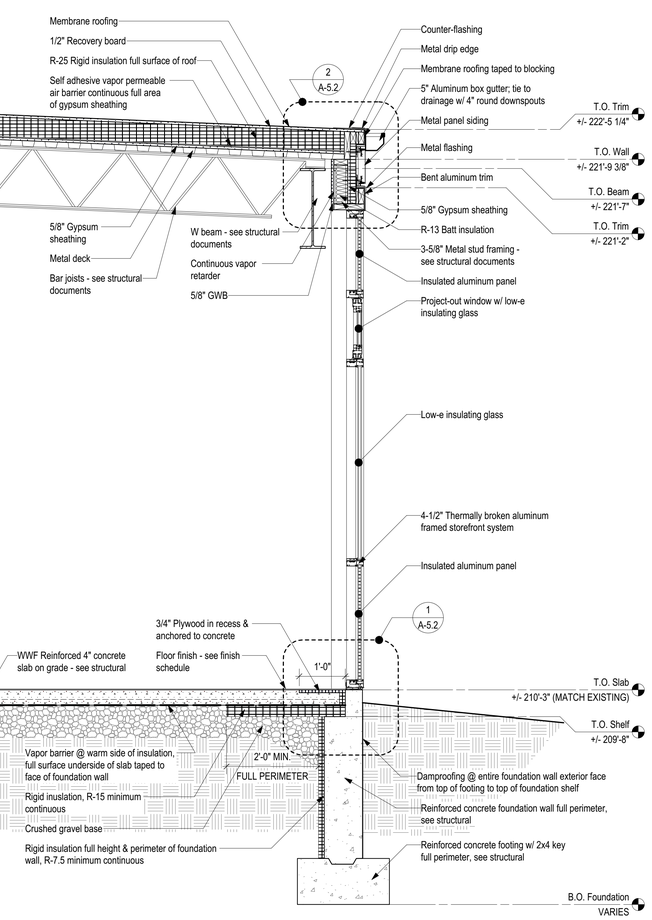

E WALL SECTION @ STOREFRONT
3/4" = 1'-0"

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WALL SECTIONS AT CAFETORIUM ADDITION

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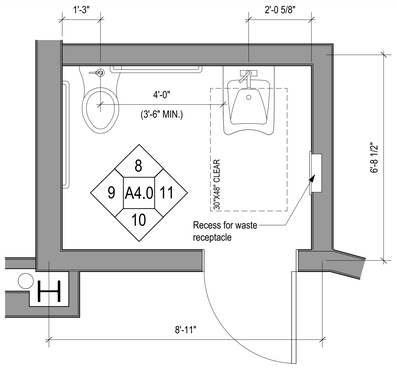
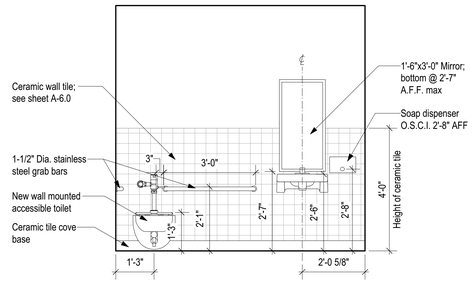
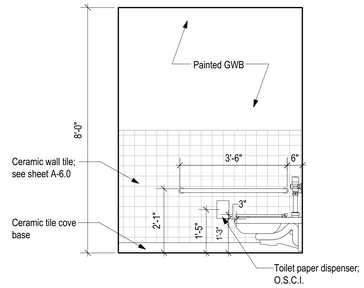
A-3.3



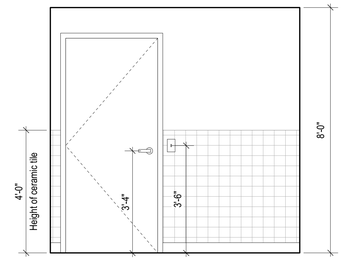
TOILET ROOM 204 ENLARGED PLANS



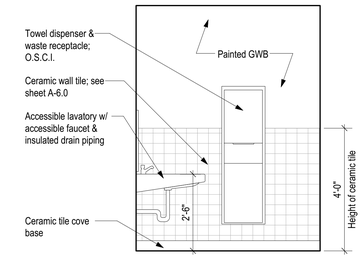
8 TOILET ROOM 204 FIXTURE WALL



9 TOILET ROOM 204 END WALL

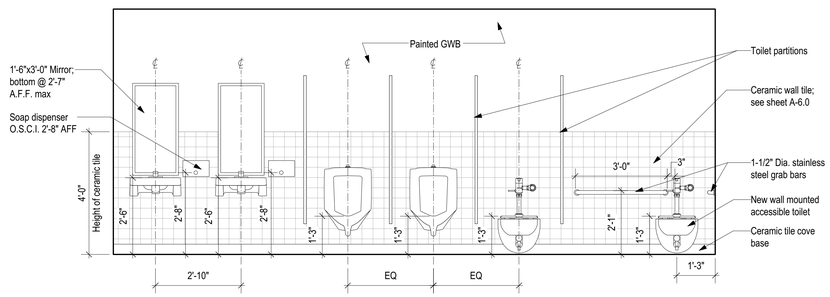


10 TOILET ROOM 204 DOOR WALL

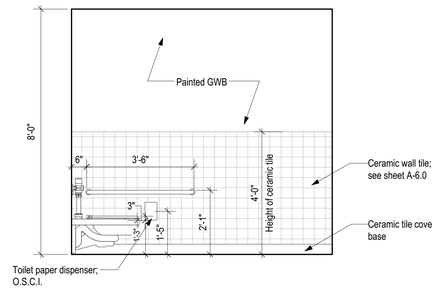


11 TOILET ROOM 204 END WALL

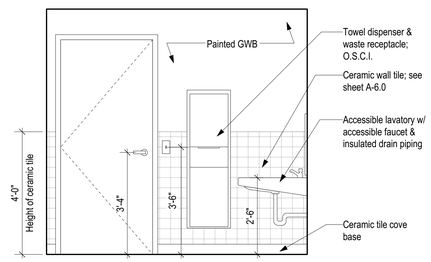
TOILET ROOM 204 INTERIOR ELEVATIONS



5 BOY'S FIXTURE WALL

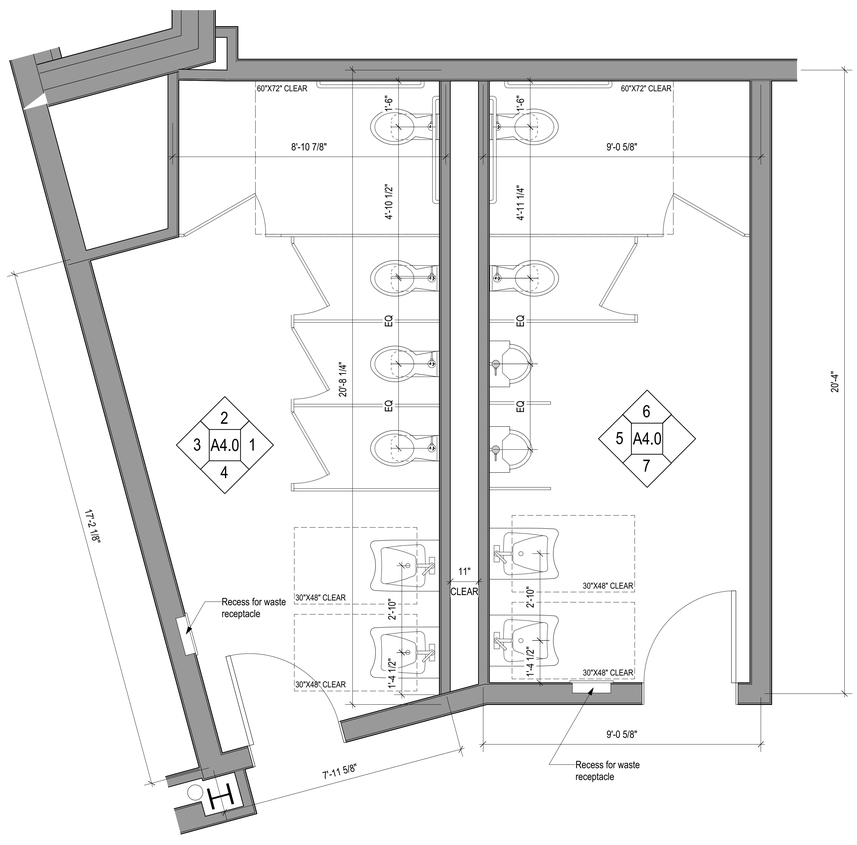


6 BOY'S END WALL

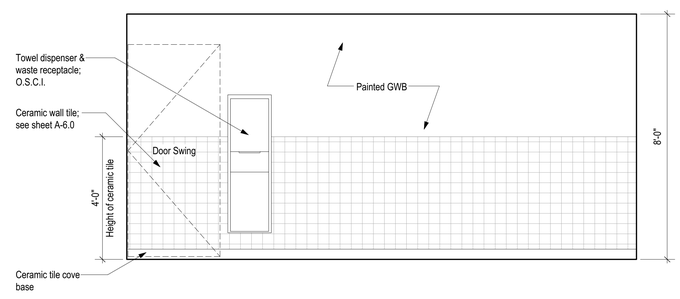


7 BOY'S DOOR WALL

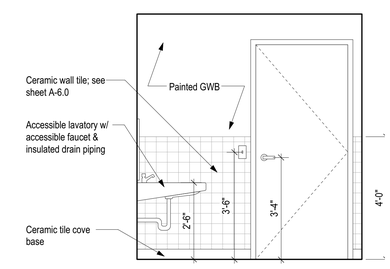
BOY'S BATHROOM 106 INTERIOR ELEVATIONS



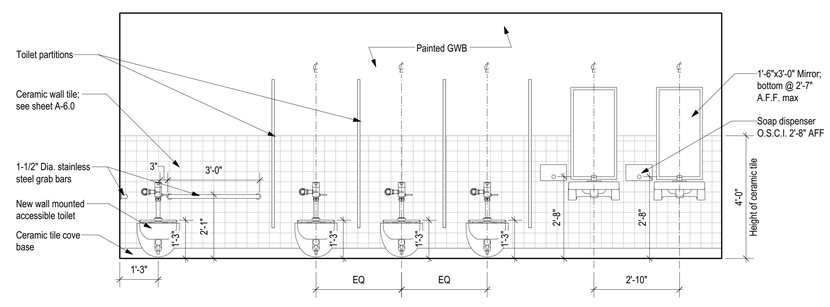
GIRL'S BATHROOM 105 & BOY'S BATHROOM 106 ENLARGED PLAN



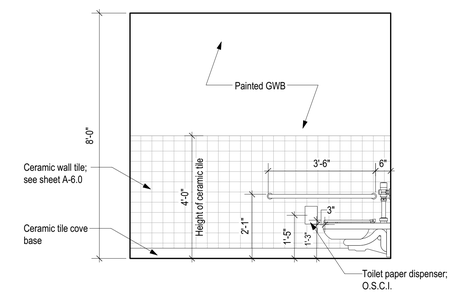
3 GIRL'S END WALL



4 GIRL'S DOOR WALL



1 GIRL'S FIXTURE WALL



2 GIRL'S END WALL

GIRL'S BATHROOM 105 INTERIOR ELEVATIONS

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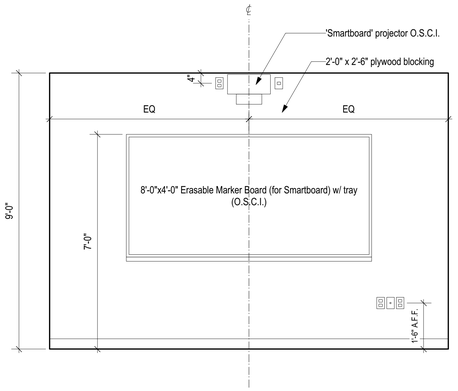
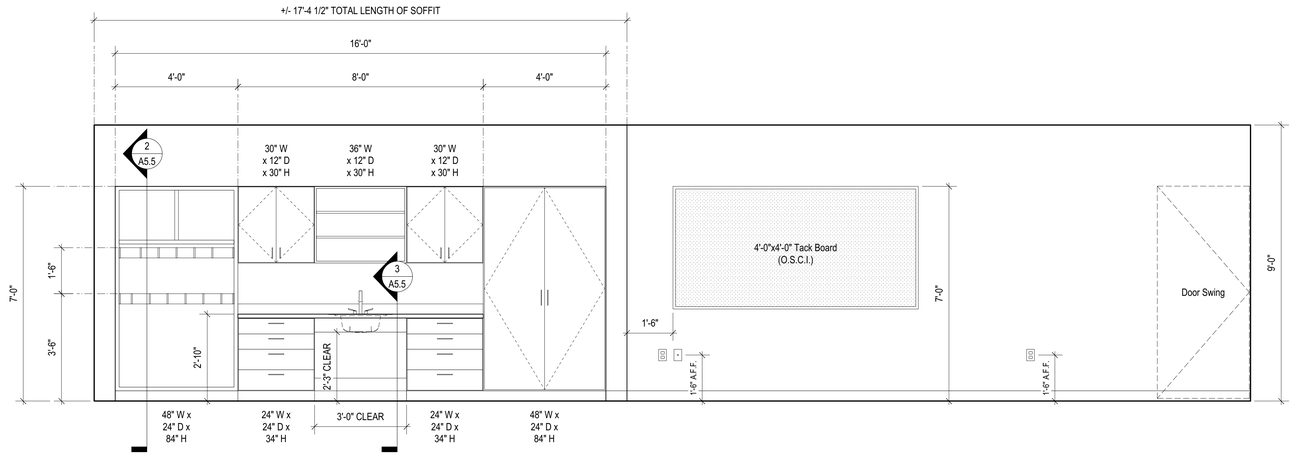
A-4.0

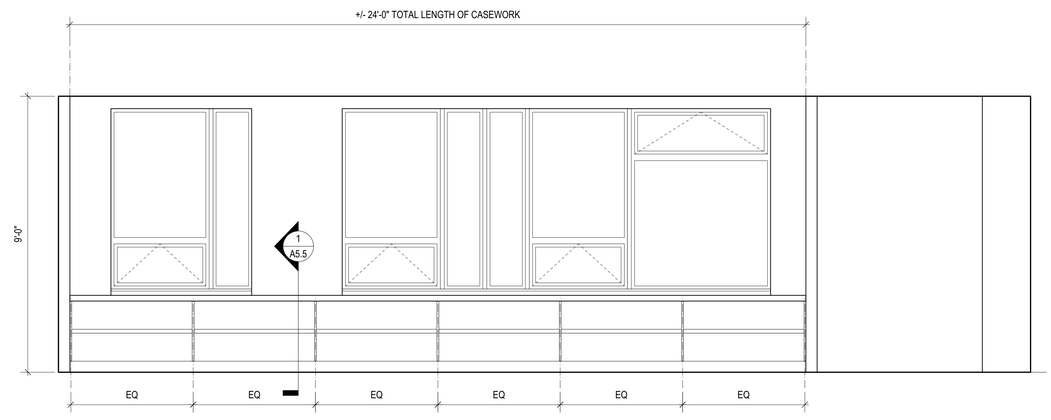


16 TYPICAL NEW SAIL CLASSROOM TEACHING WALL

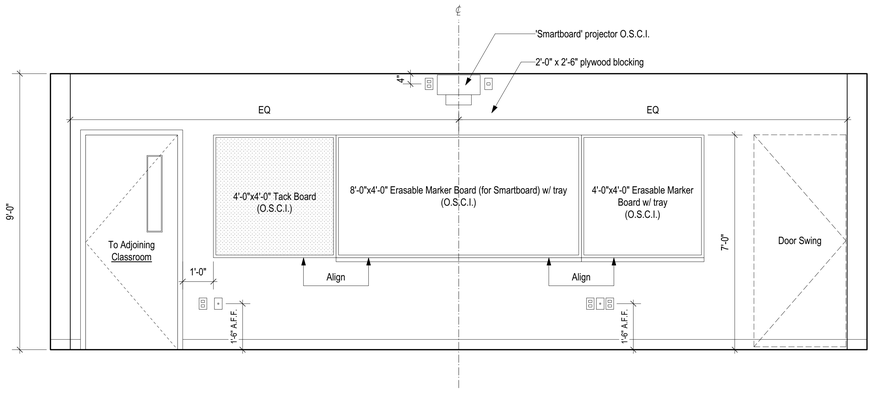


15 TYPICAL NEW SAIL CLASSROOM CASEWORK WALL

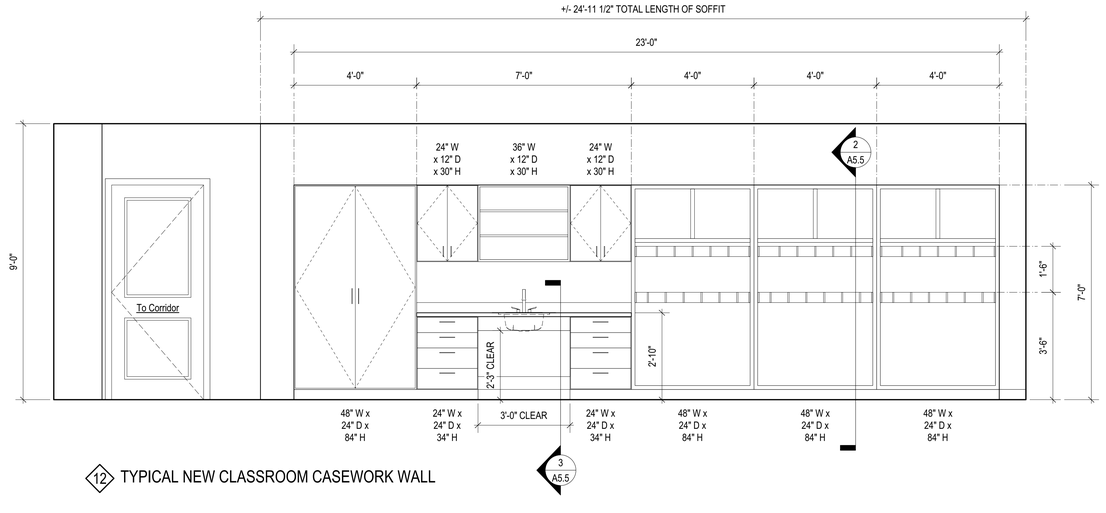
SAIL CLASSROOM INTERIOR ELEVATIONS



14 TYPICAL NEW CLASSROOM WINDOW WALL



13 TYPICAL NEW CLASSROOM TEACHING WALL



12 TYPICAL NEW CLASSROOM CASEWORK WALL

TYPICAL CLASSROOM INTERIOR ELEVATIONS

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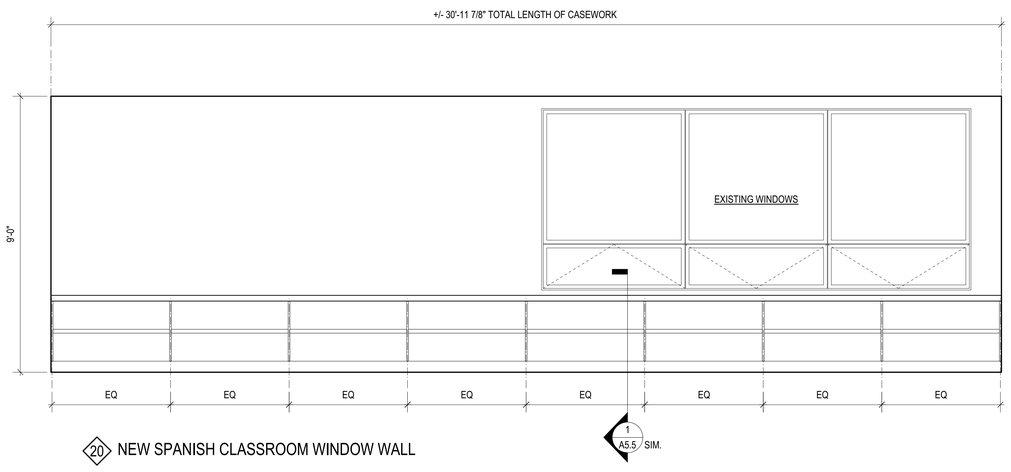
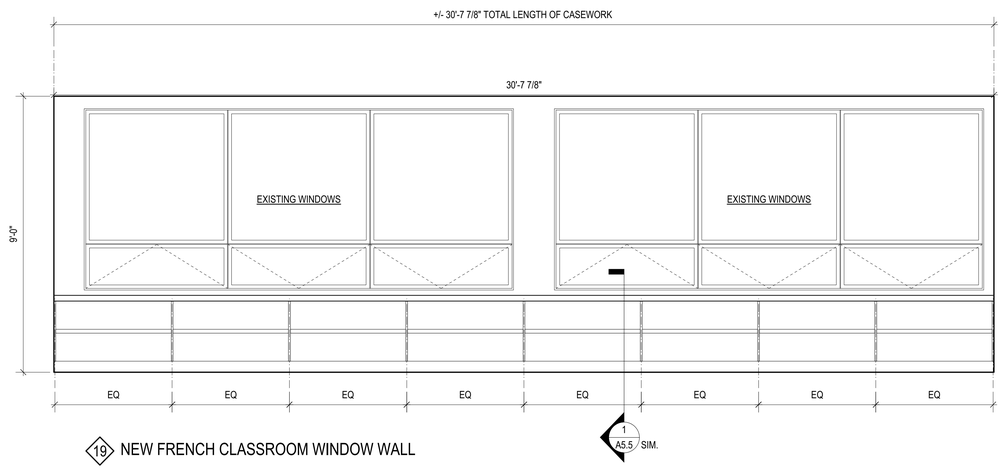
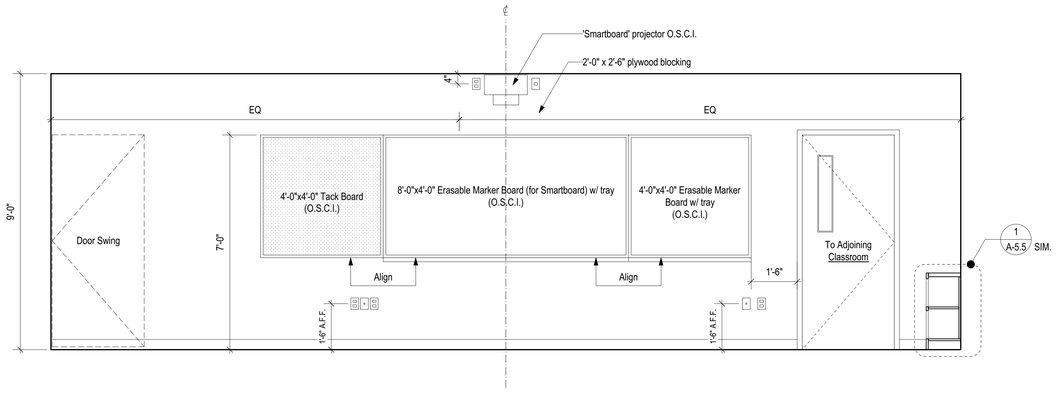


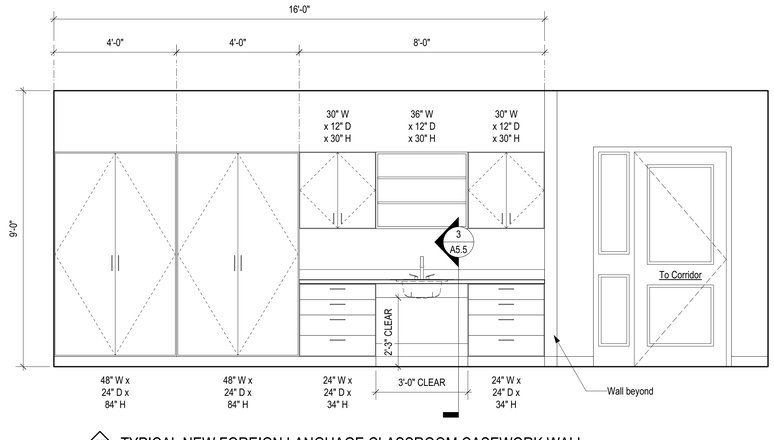
20 NEW SPANISH CLASSROOM WINDOW WALL



19 NEW FRENCH CLASSROOM WINDOW WALL



18 TYPICAL NEW FOREIGN LANGUAGE CLASSROOM TEACHING WALL



17 TYPICAL NEW FOREIGN LANGUAGE CLASSROOM CASEWORK WALL

FOREIGN LANGUAGE CLASSROOM INTERIOR ELEVATIONS

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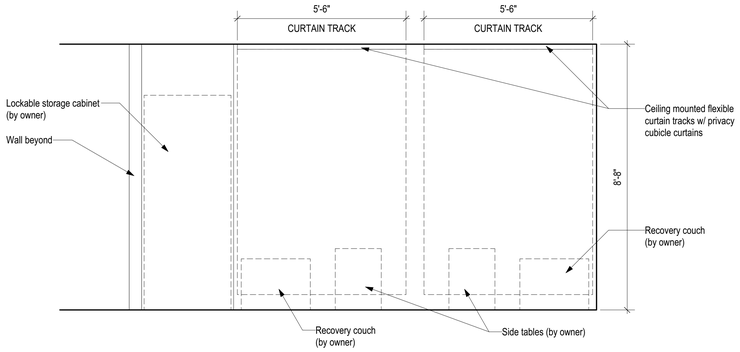
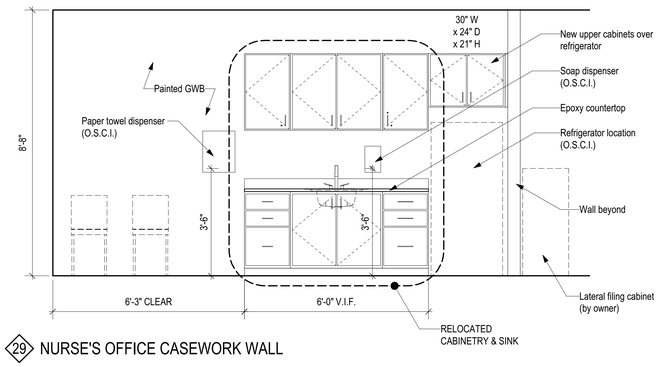
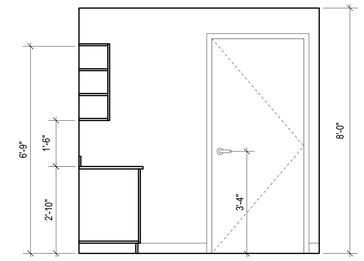


30 NURSE'S OFFICE RECOVERY WALL

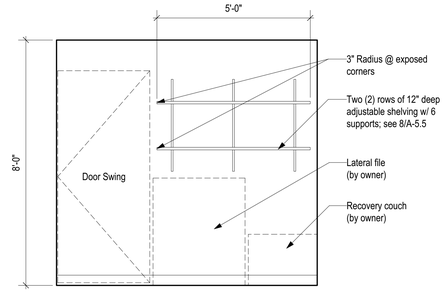


29 NURSE'S OFFICE CASEWORK WALL

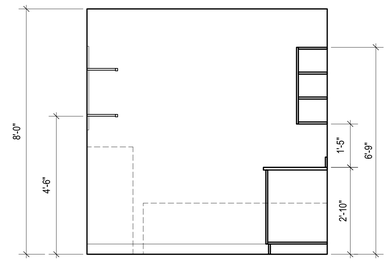
NURSE'S OFFICE INTERIOR ELEVATIONS



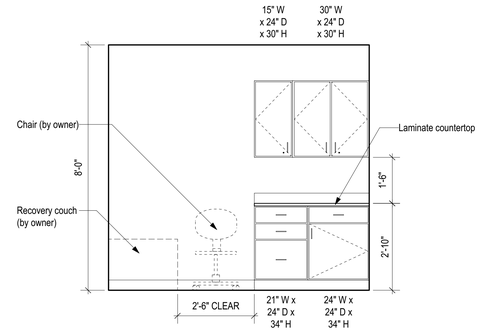
27 EXAM ROOM DOOR WALL



28 EXAM ROOM END WALL

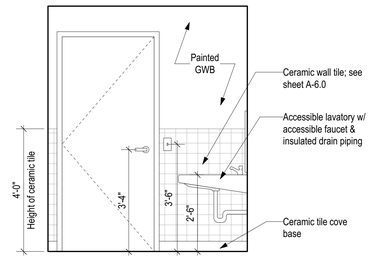


25 EXAM ROOM END WALL

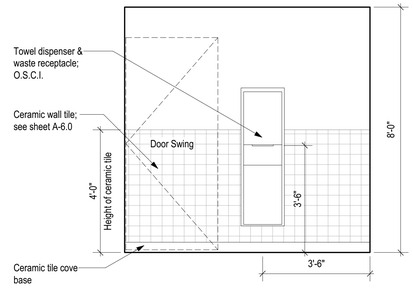


26 EXAM ROOM CASEWORK WALL

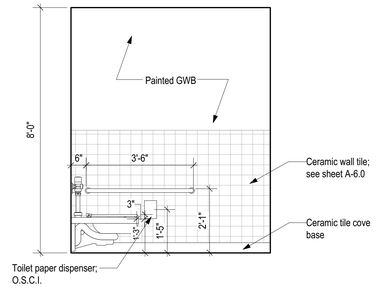
NURSE'S OFFICE EXAM ROOM INTERIOR ELEVATIONS



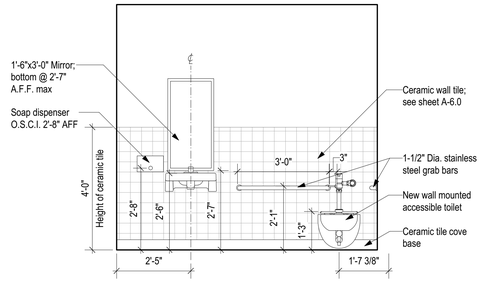
23 NURSE'S TOILET DOOR WALL



24 NURSE'S TOILET WALL

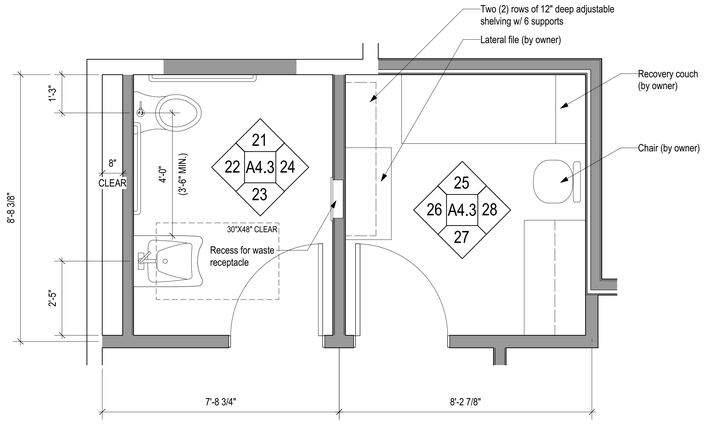


21 NURSE'S TOILET END WALL



22 NURSE'S TOILET FIXTURE WALL

NURSE'S OFFICE TOILET ROOM INTERIOR ELEVATIONS



NURSE'S OFFICE TOILET & EXAM ROOM ENLARGED PLAN

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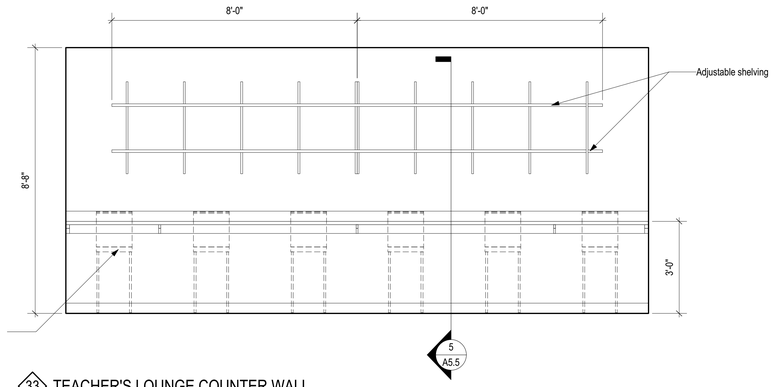
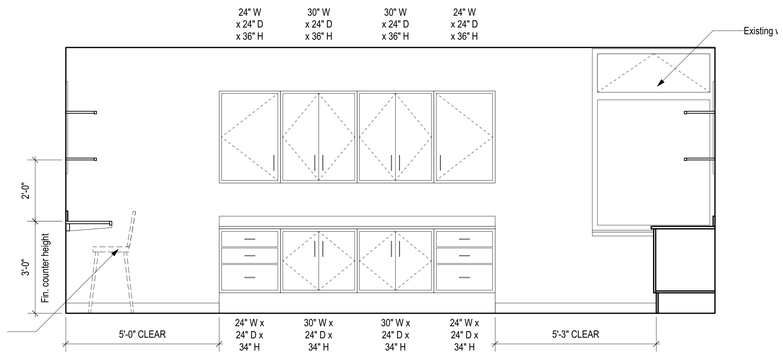
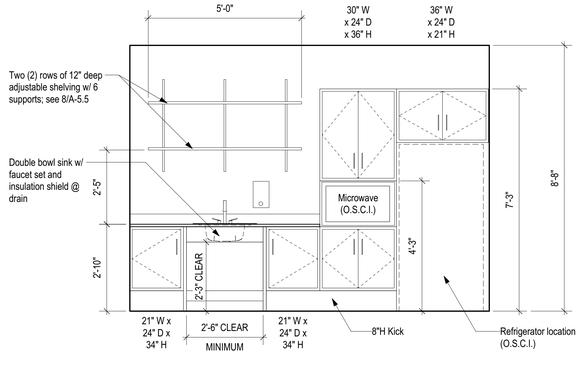


33 TEACHER'S LOUNGE COUNTER WALL



32 TEACHER'S LOUNGE END WALL



31 TEACHER'S LOUNGE KITCHENETTE WALL

TEACHER'S LOUNGE INTERIOR ELEVATIONS

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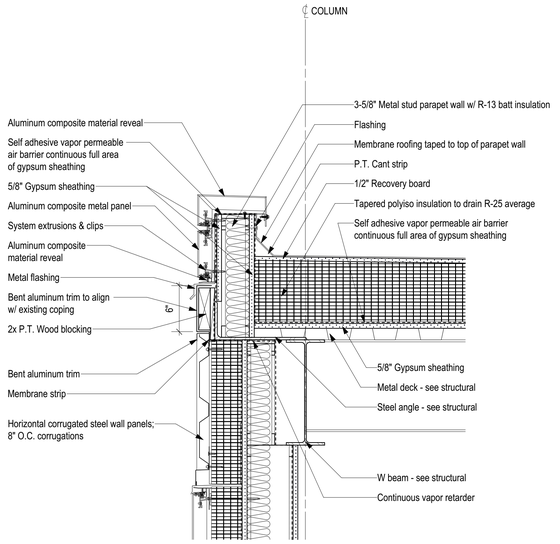
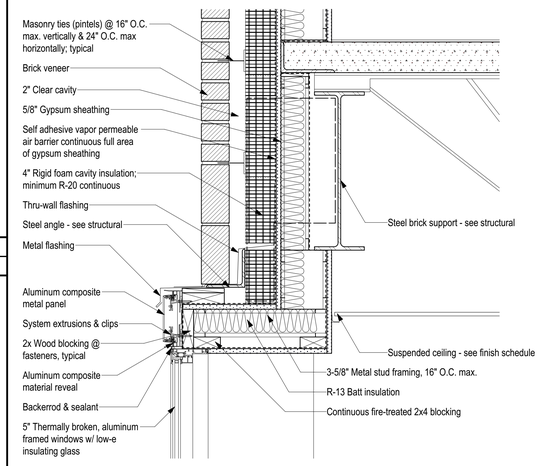
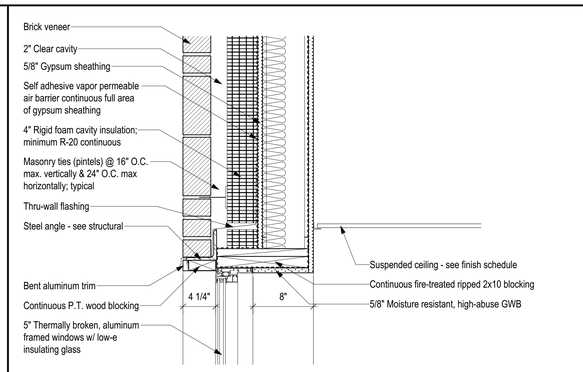


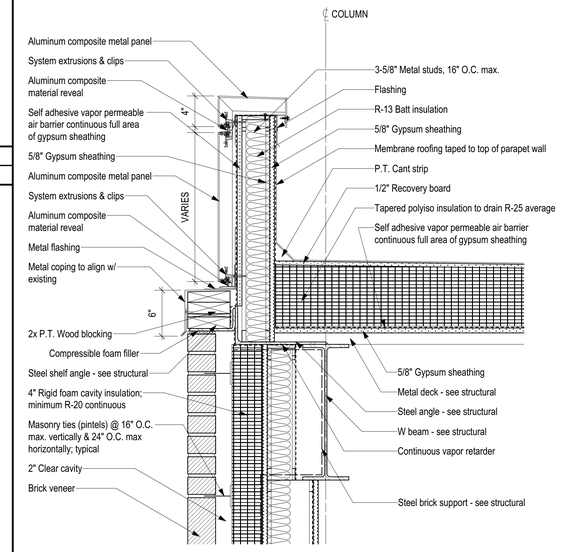
13 PARAPET DETAIL AT METAL PANEL WALL
SCALE: 1 1/2" = 1'-0"



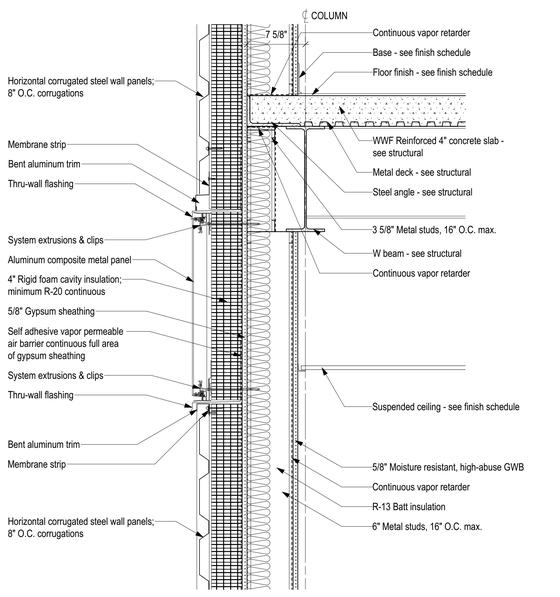
10 PROJECTED WINDOW HEAD DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"



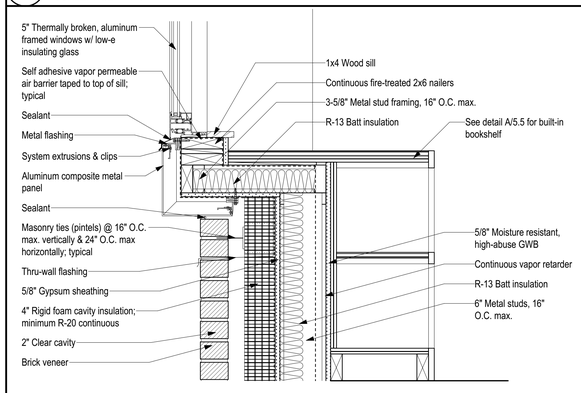
7 RECESSED WINDOW HEAD DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"



3 PARAPET DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"



12 DETAIL AT METAL PANEL WALL
SCALE: 1 1/2" = 1'-0"



9 PROJECTED WINDOW SILL DETAIL AT BRICK WALL
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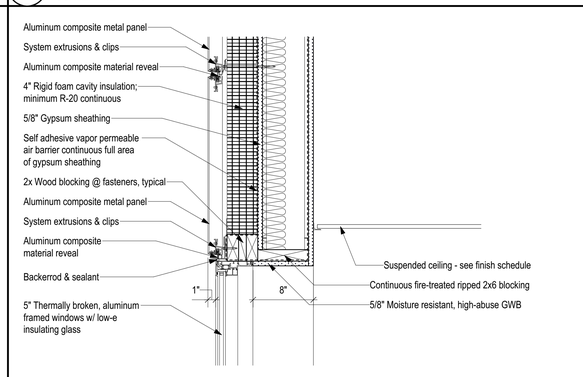

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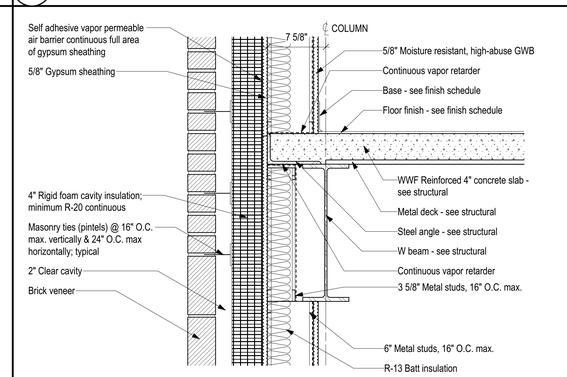
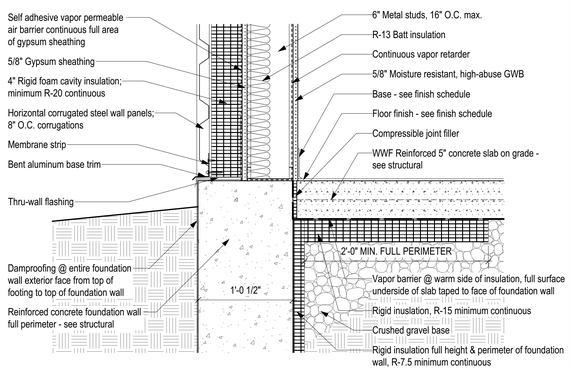
SCALE: 1 1/2" = 1'-0"



2 FLOOR DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"



11 FOUNDATION DETAIL AT METAL PANEL WALL
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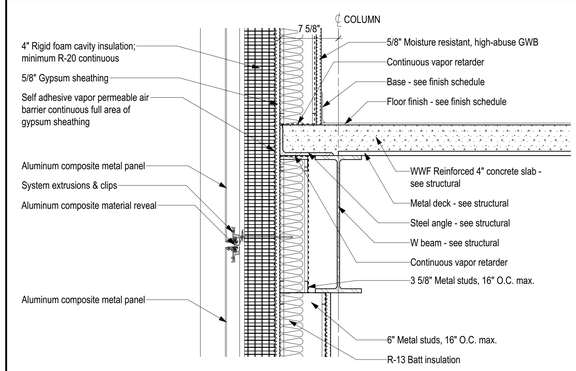

8 FLOOR DETAIL AT METAL PANEL WALL
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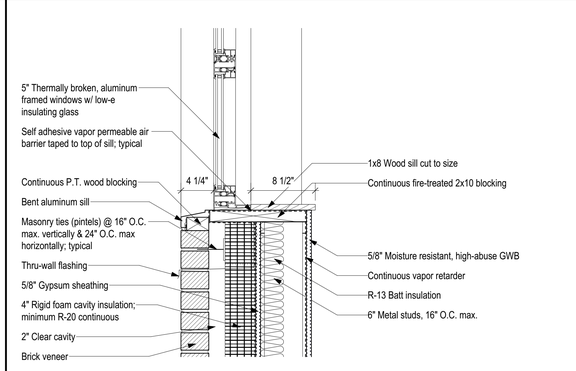
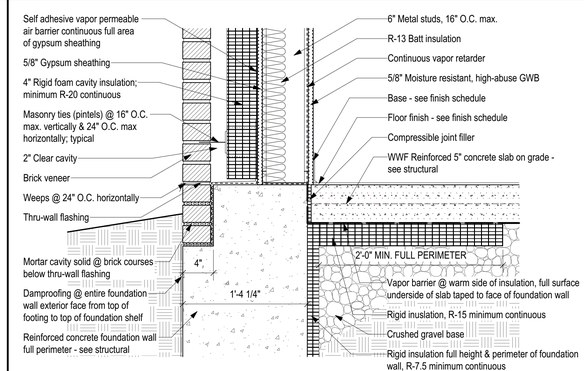


4 RECESSED WINDOW SILL DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"



1 FOUNDATION DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"

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SCALE
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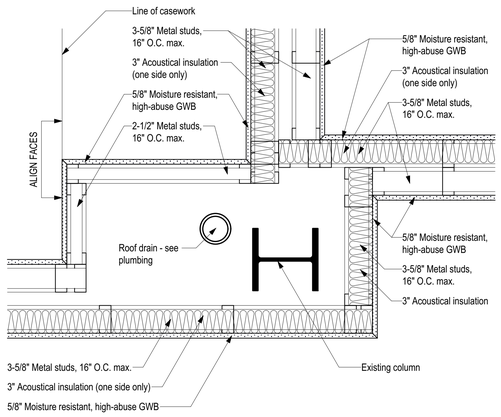
SECTION DETAILS AT CLASSROOM ADDITION

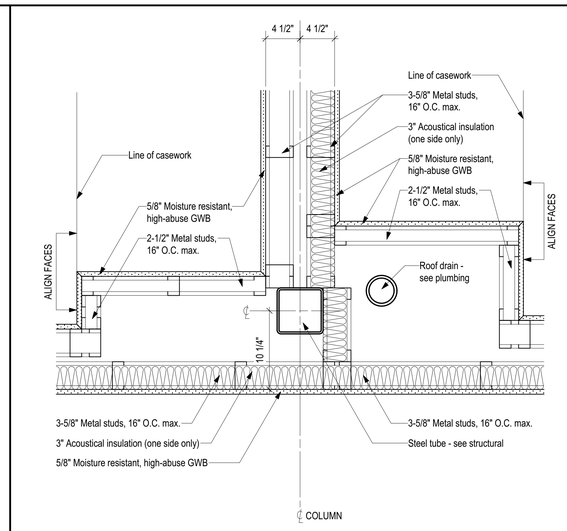
TBA PROJECT # 1258

A-5.0

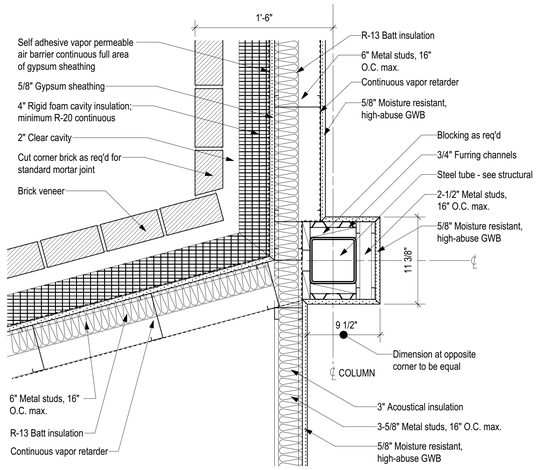


11 PLAN DETAIL AT EXISTING COLUMN
SCALE: 1 1/2" = 1'-0"

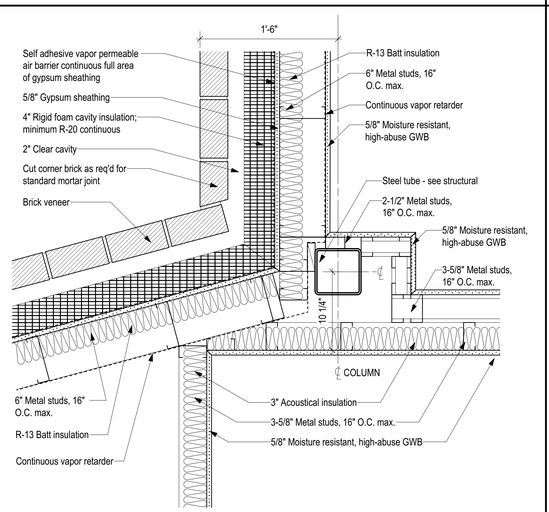
10 PLAN DETAIL AT EXISTING COLUMN
SCALE: 1 1/2" = 1'-0"



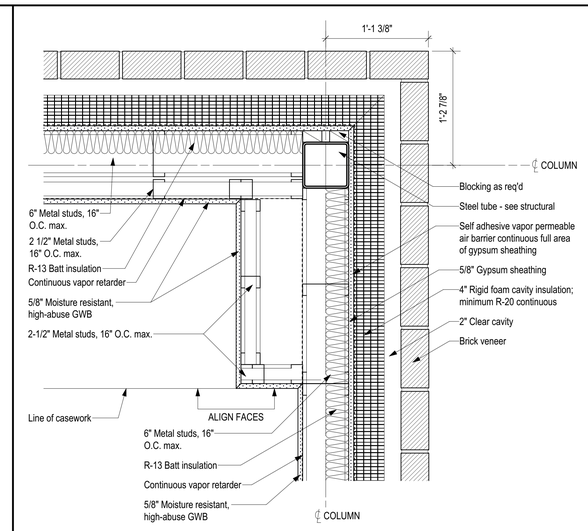
9 PLAN DETAIL AT ROOF DRAIN
SCALE: 1 1/2" = 1'-0"



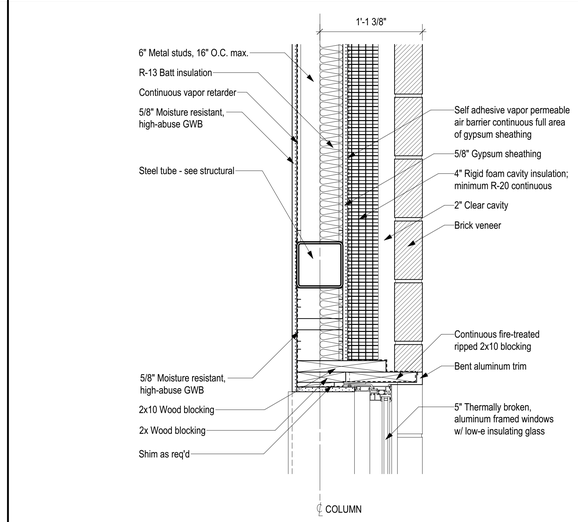
8 INSIDE CORNER DETAIL AT BRICK WALL (SAIL CLASSROOM)
SCALE: 1 1/2" = 1'-0"



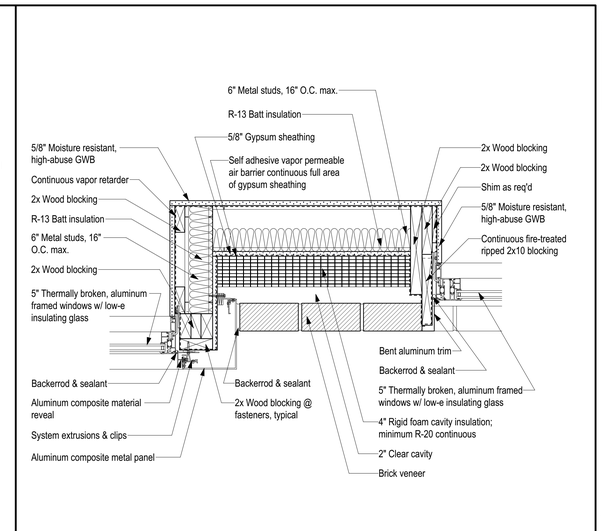
7 INSIDE CORNER DETAIL AT BRICK WALL (SPED OFFICE/BATHROOM)
SCALE: 1 1/2" = 1'-0"



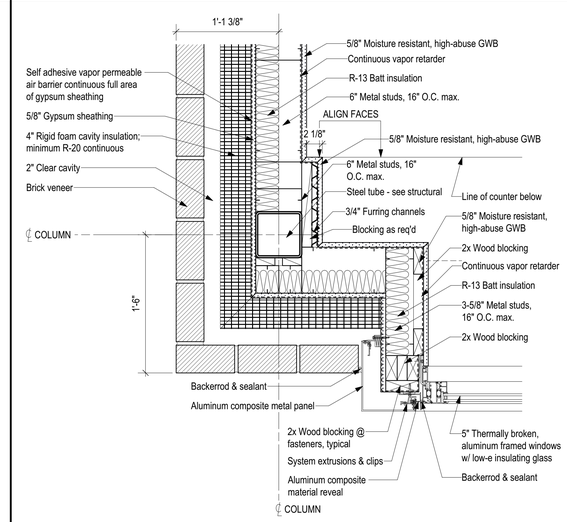
6 CORNER DETAIL AT BRICK WALL
SCALE: 1 1/2" = 1'-0"



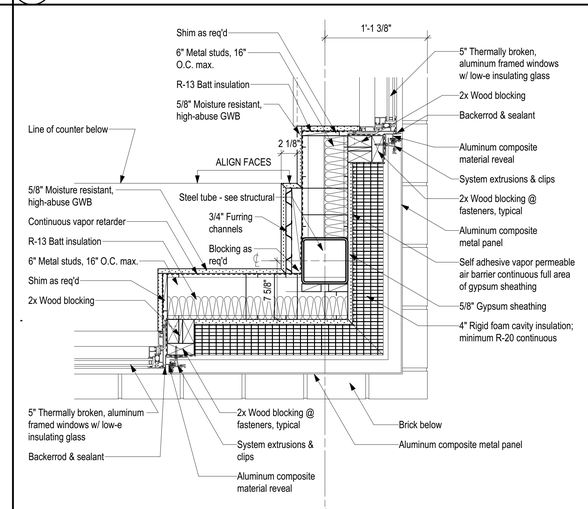
5 JAMB DETAIL AT RECESSED WINDOW
SCALE: 1 1/2" = 1'-0"



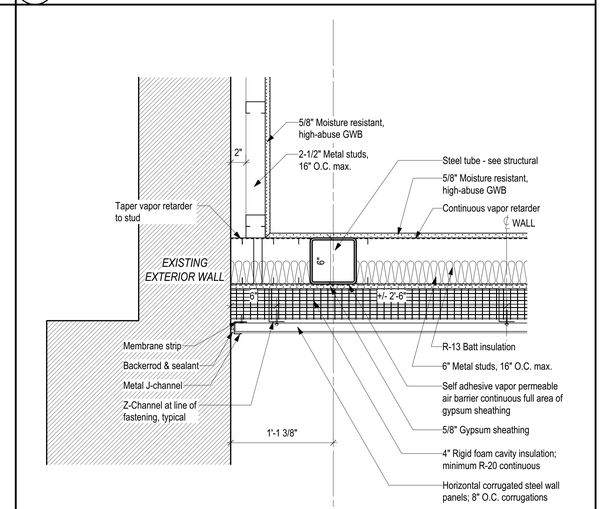
3 JAMB DETAIL AT PROJECTED & RECESSED WINDOWS
SCALE: 1 1/2" = 1'-0"



2 CORNER DETAIL AT PROJECTED WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



4 CORNER DETAIL AT RECESSED WINDOW JAMBS
SCALE: 1 1/2" = 1'-0"



1 CORNER DETAIL AT EXISTING WALL
SCALE: 1 1/2" = 1'-0"

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PLAN DETAILS AT CLASSROOM ADDITION

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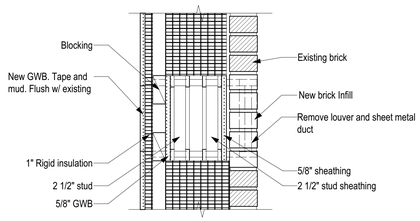
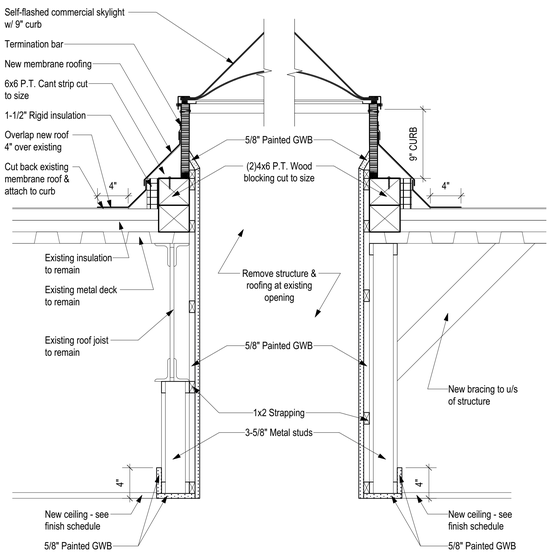
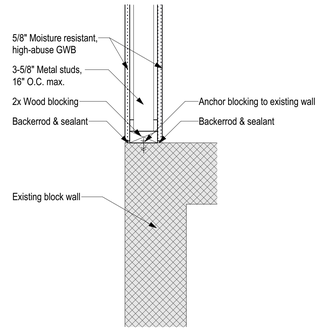


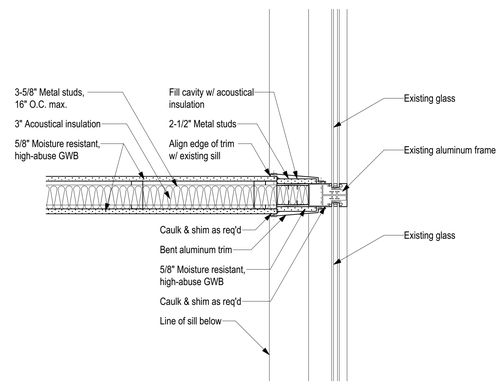
12 VENT INFILL AT EXTERIOR WALL
SCALE: 1 1/2" = 1'-0"



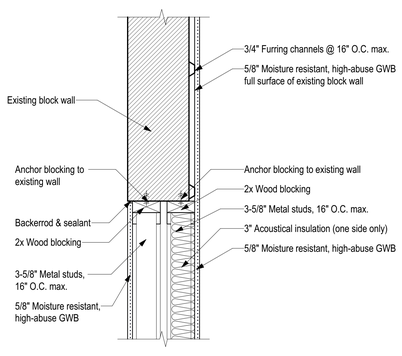
11 NEW SKYLIGHT DETAIL @ EXISTING ROOF
SCALE: 1 1/2" = 1'-0"



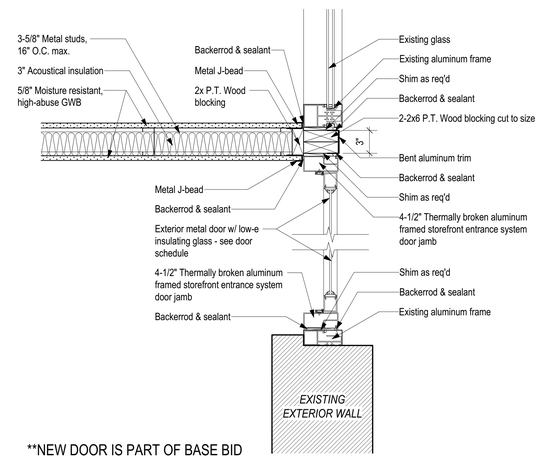
9 NEW INTERIOR WALL AT EXISTING BLOCK WALL CORNER
SCALE: 1 1/2" = 1'-0"



8 NEW INTERIOR WALL AT EXISTING MULLION DETAIL
SCALE: 1 1/2" = 1'-0"

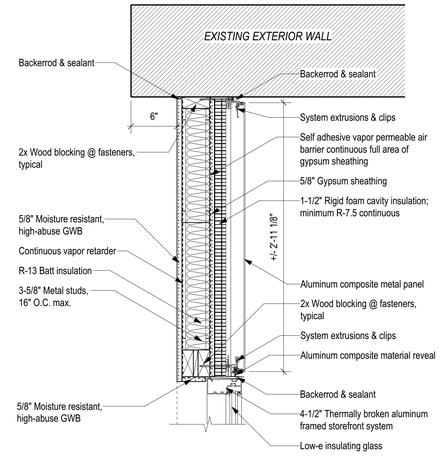


10 NEW INTERIOR WALL AT EXISTING BLOCK WALL END
SCALE: 1 1/2" = 1'-0"

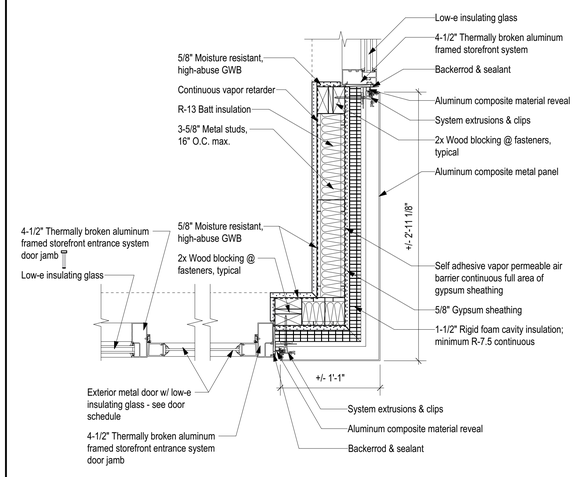


**NEW DOOR IS PART OF BASE BID

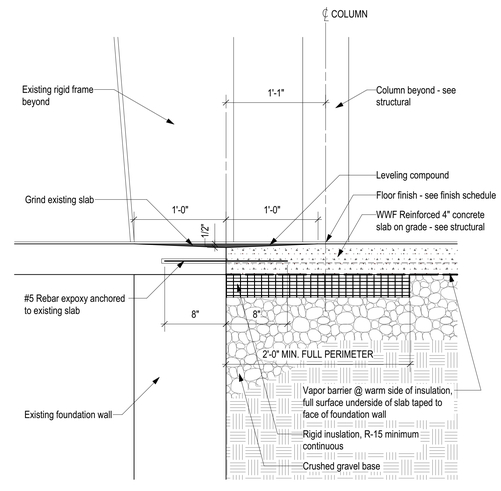
7 NEW DOOR JAMB DETAIL AT ASSISTANT PRINCIPAL
SCALE: 1 1/2" = 1'-0"



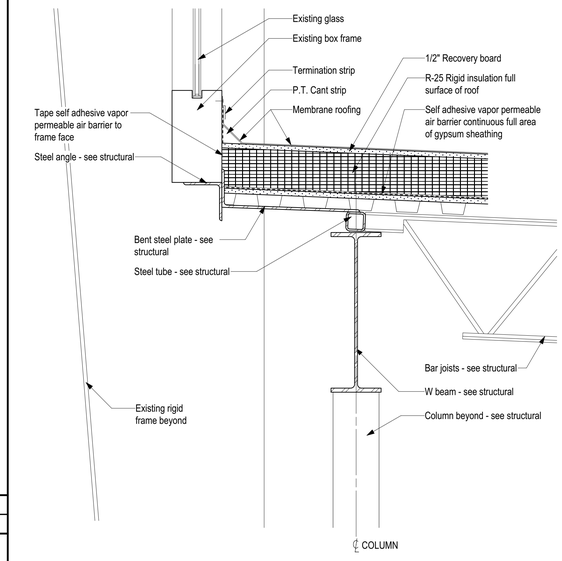
6 CORNER DETAIL AT EXISTING CAFETORIUM
SCALE: 1 1/2" = 1'-0"



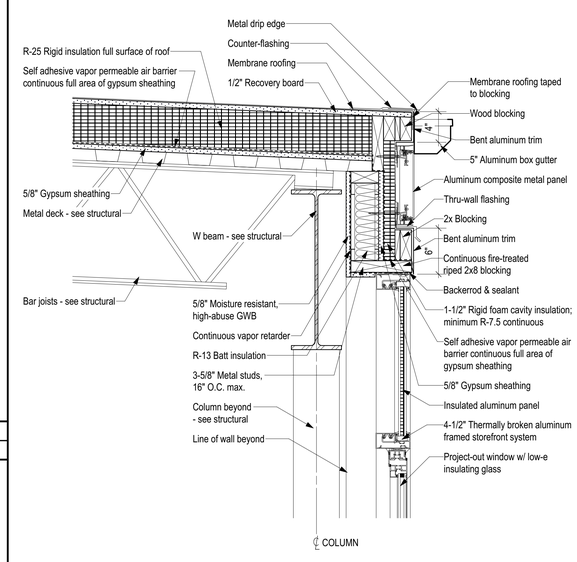
5 CORNER DETAIL AT METAL WALL
SCALE: 1 1/2" = 1'-0"



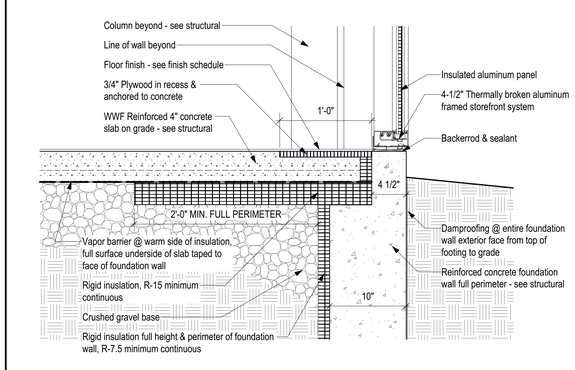
4 FOUNDATION DETAIL @ EXISTING CAFETORIUM
SCALE: 1 1/2" = 1'-0"



3 ROOF DETAIL @ EXISTING CAFETORIUM
SCALE: 1 1/2" = 1'-0"



2 ROOF EDGE DETAIL @ CAFETORIUM ADDITION
SCALE: 1 1/2" = 1'-0"



1 FOUNDATION DETAIL AT CAFETORIUM ADDITION
SCALE: 1 1/2" = 1'-0"

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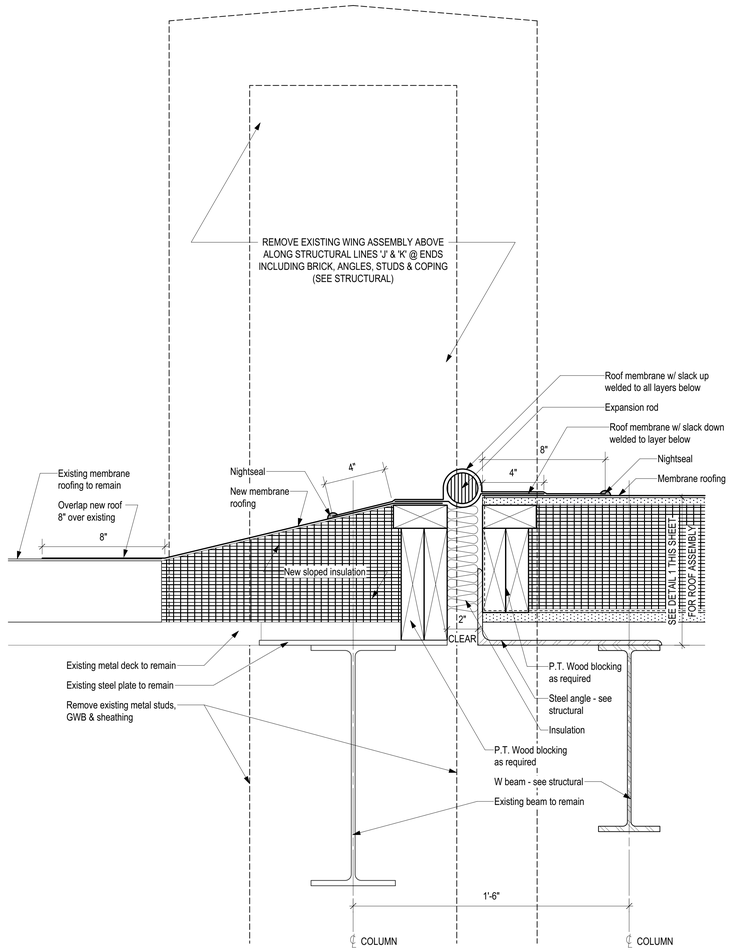
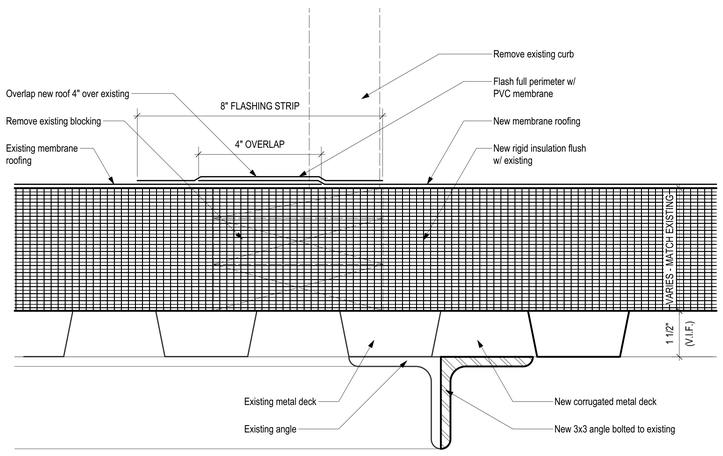
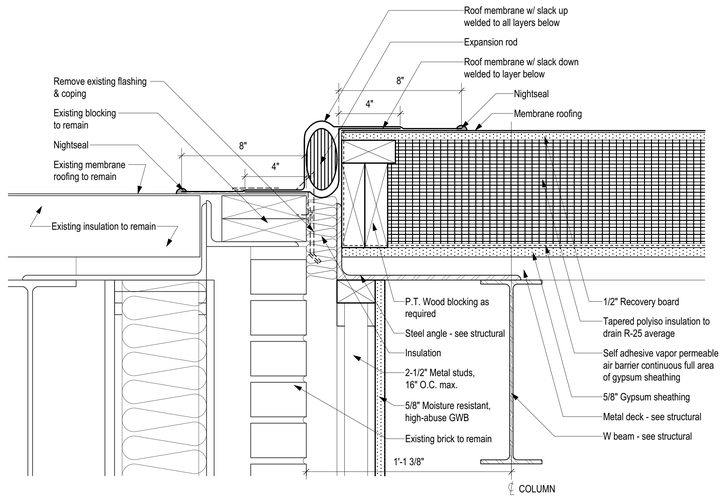


2 NEW ROOF DETAIL AT EXISTING ROOF EDGE
SCALE: 3" = 1'-0"



3 ROOF PENETRATION INFILL
SCALE: HALF ACTUAL SIZE



1 NEW ROOF DETAIL AT EXISTING ROOF EDGE
SCALE: 3" = 1'-0"

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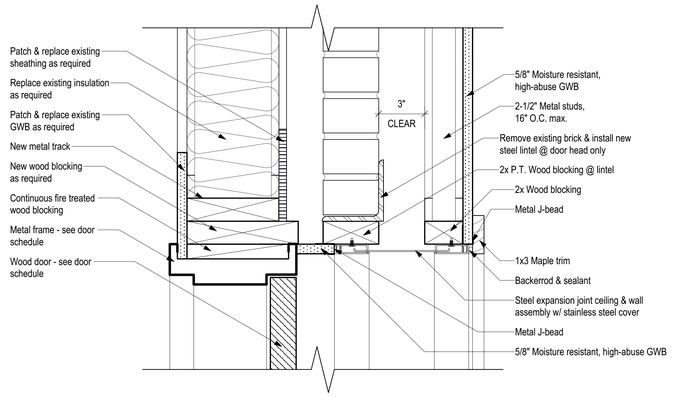
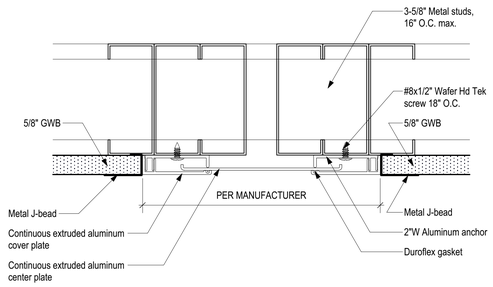
ROOF DETAILS AT CLASSROOM ADDITION

TBA PROJECT # 1258

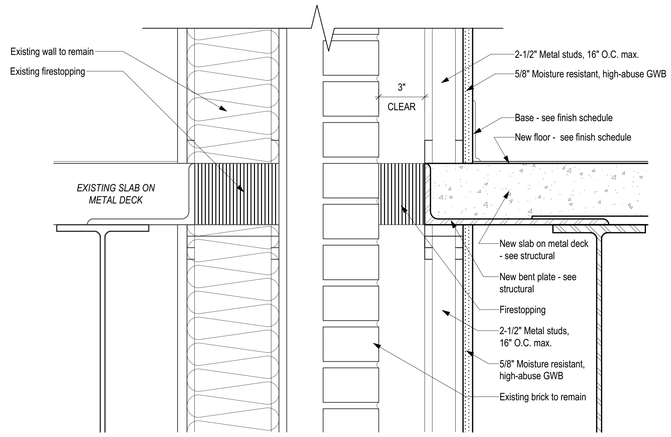
A-5.3



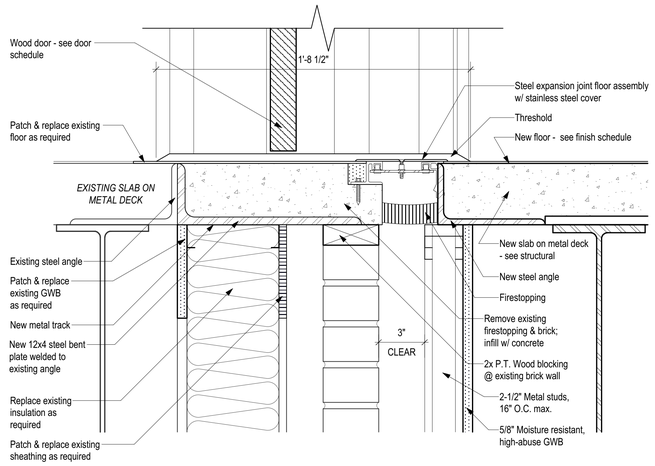
3 HEAD DETAIL AT NEW DOOR OPENING IN EXISTING WALL (JAMB SIMILAR)
SCALE: 3" = 1'-0"



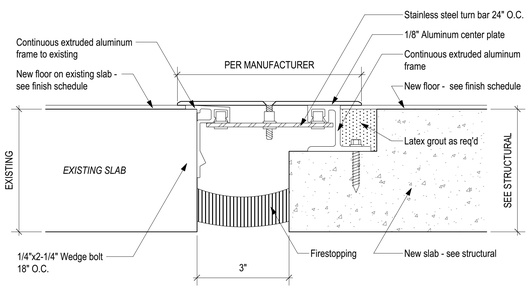
7 WALL EXPANSION JOINT (CEILING SIMILAR)
SCALE: HALF ACTUAL SIZE



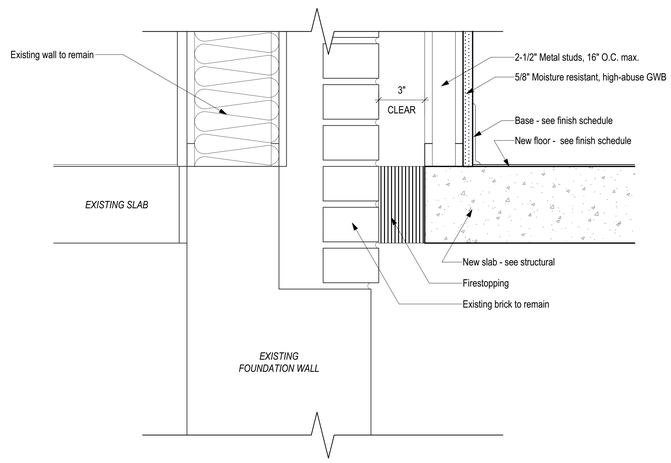
5 EXPANSION JOINT DETAIL AT SECOND FLOOR SLAB ON DECK
SCALE: 3" = 1'-0"



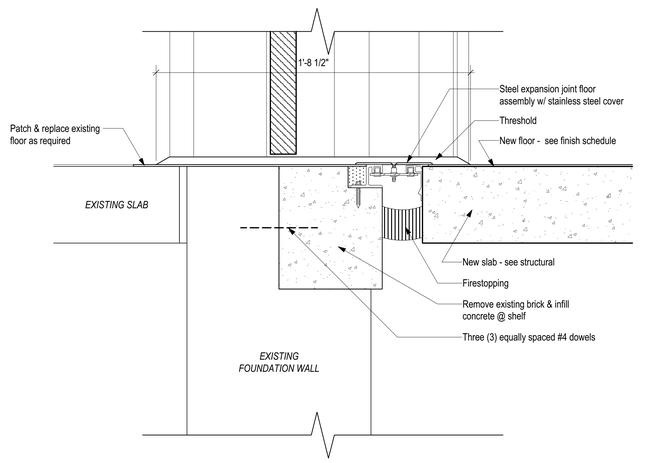
2 THRESHOLD DETAIL AT NEW SECOND FLOOR DOOR OPENING IN EXISTING WALL
SCALE: 3" = 1'-0"



6 FLOOR EXPANSION JOINT AT SLAB ON GRADE (METAL DECK SIMILAR)
SCALE: HALF ACTUAL SIZE



4 EXPANSION JOINT DETAIL AT FIRST FLOOR SLAB
SCALE: 3" = 1'-0"



1 THRESHOLD DETAIL AT NEW FIRST FLOOR DOOR OPENING IN EXISTING WALL
SCALE: 3" = 1'-0"

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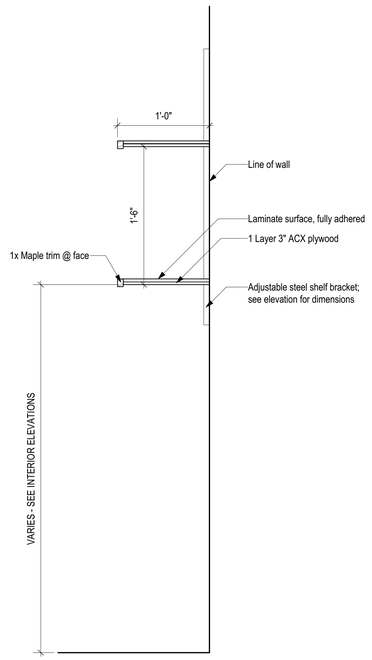
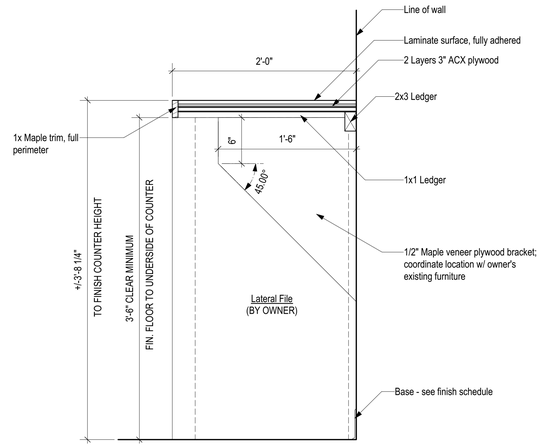
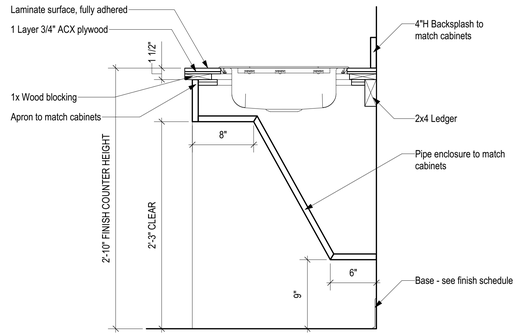


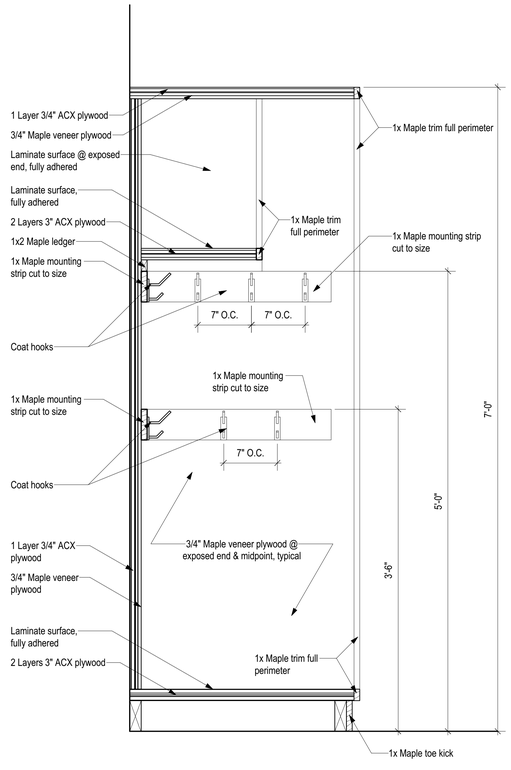
8 TYPICAL ADJUSTABLE SHEVLING DETAIL
SCALE: 1 1/2" = 1'-0"



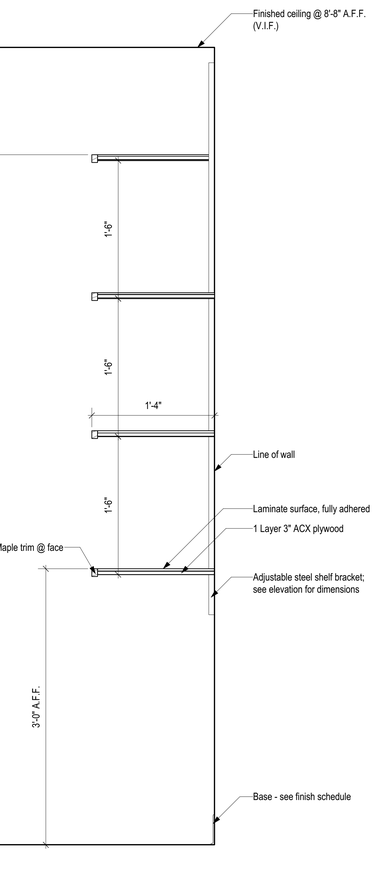
6 RECORDS ROOM COUNTER DETAIL
SCALE: 1 1/2" = 1'-0"



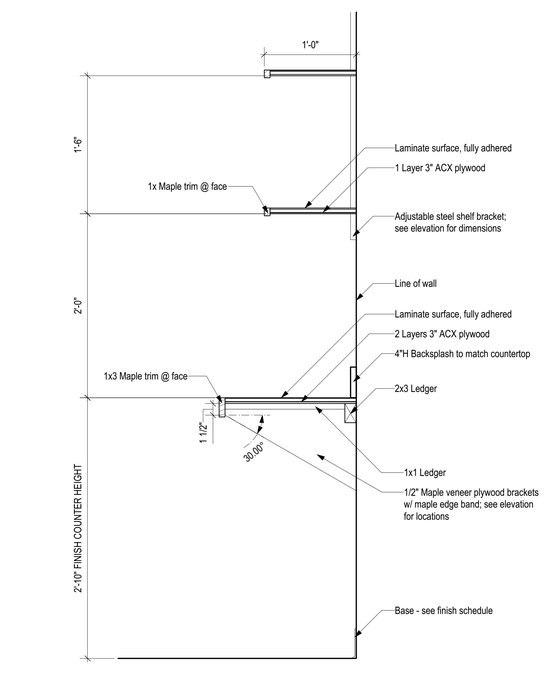
3 SINK SECTION
SCALE: 1 1/2" = 1'-0"



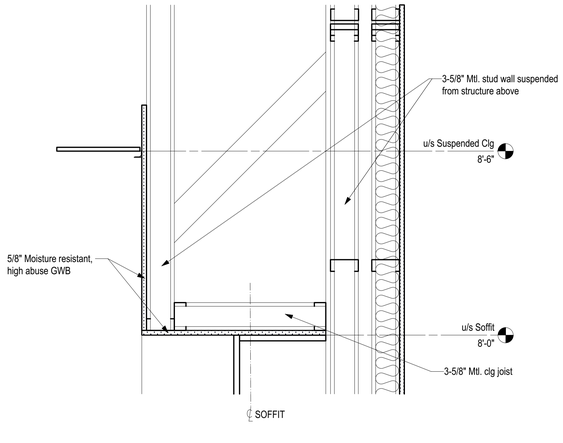
2 STUDENT WARDROBE SECTION
SCALE: 1 1/2" = 1'-0"



7 COPY ROOM ADJUSTABLE SHEVLING DETAIL
SCALE: 1 1/2" = 1'-0"

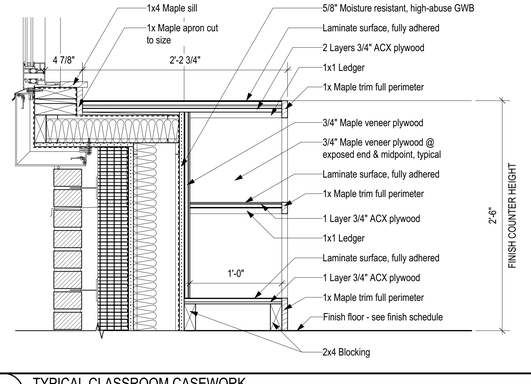


5 TEACHER'S LOUNGE LUNCH COUNTER DETAIL
SCALE: 1 1/2" = 1'-0"



9 SOFFIT DETAIL AT CABINETRY WORK
SCALE: 1 1/2" = 1'-0"

4 NOT USED
SCALE: 1 1/2" = 1'-0"



1 TYPICAL CLASSROOM CASEWORK
SCALE: 1 1/2" = 1'-0"

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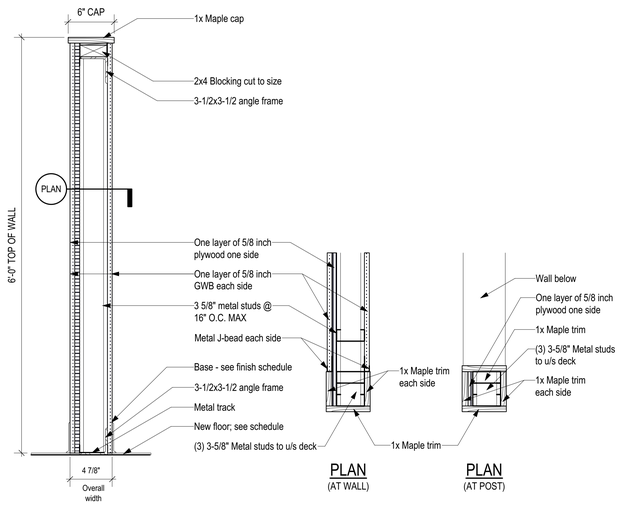
SCALE
AS NOTED

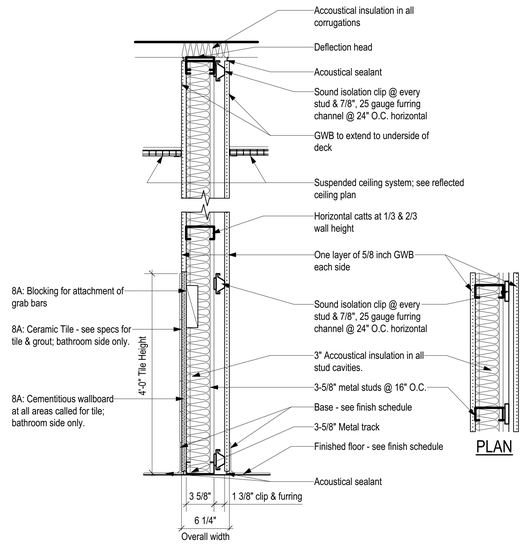
INTERIOR DETAILS

TBA PROJECT # 1258

A-5.5

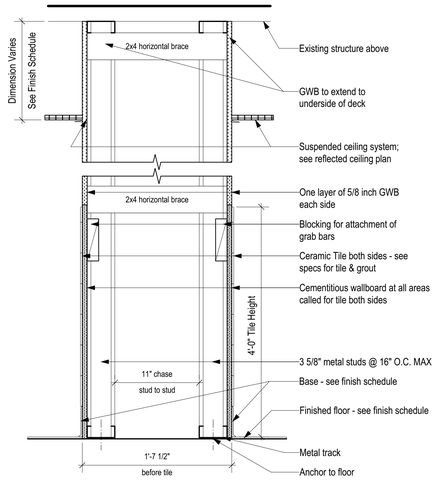


9 6'-0"H PARTITION @ SAIL CLASSROOM
NTS

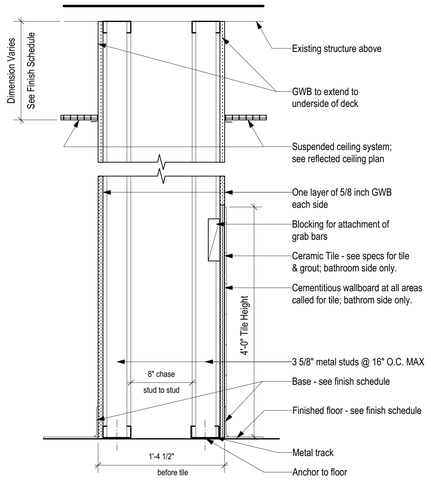


8A ACOUSTICAL WALL, BASED ON UL U451 / RAL-TL-84-141, TILE ONE SIDE
NTS

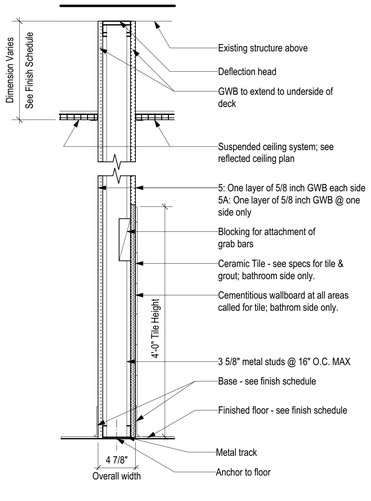
8 ACOUSTICAL WALL, BASED ON UL U451 / RAL-TL-84-141
NTS



7 DOUBLE PLUMBING WALL TILE BOTH SIDES
NTS

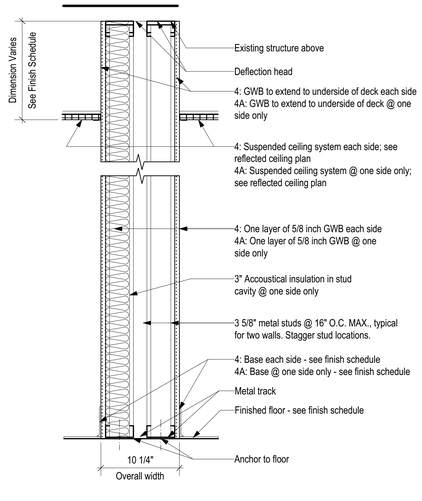


6 PLUMBING WALL W/ TILE ONE SIDE
NTS



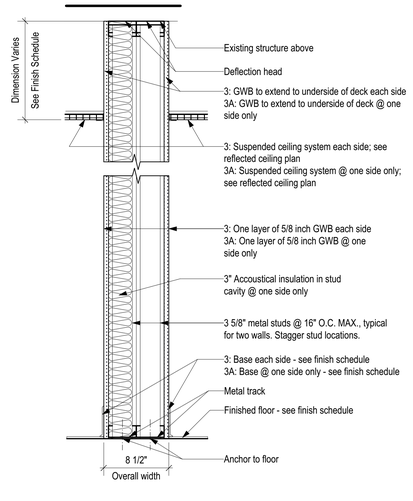
5A ONE SIDED TILE WALL
NTS

5 GWB PARTITION W/ TILE ONE SIDE
NTS



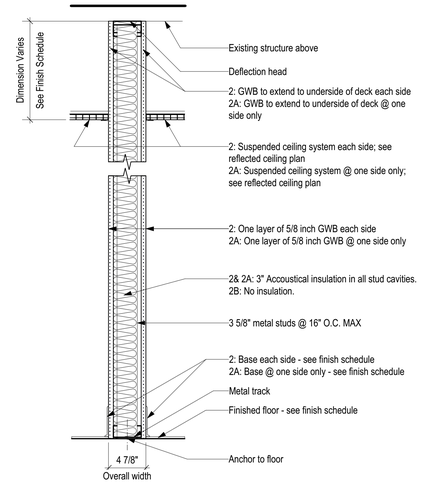
4A TWO-WALL PARTITION W/ GWB ONE SIDE
NTS

4 TWO-WALL GWB PARTITION
NTS



3A TWO-STUD PARTITION W/ GWB ONE SIDE
NTS

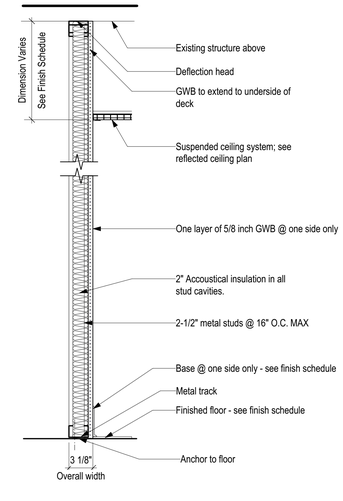
3 TWO-STUD GWB PARTITION
NTS



2B TYPICAL PARTITION (NO INSULATION)
NTS

2A TYPICAL PARTITION W/ GWB ONE SIDE
NTS

2 TYPICAL GWB PARTITION
NTS



1 GWB PARTITION @ EXISTING BRICK WALL
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AS NOTED

PARTITION TYPES

TBA PROJECT # 1258

A-5.6

ROOM FINISH SCHEDULE

		Floor		Wall				Ceiling			
Room #	Room Name	Material	Base	North	East	South	West	Material	Height	Trim	Remarks
101	Classroom	VCT 1,3,4,5	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	9'0"	PT 5	
102	SPED Office	VCT 1,5	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	9'0"	PT 5	
103	Corridor	VCT 1,3,4	RB 1	PT 3	PT 3	PT 3	PT 3	ACT	9'0"	PT 5	12x12 Tile wainscott to match existing, minimum 4'-0"H
104	Classroom	VCT 1,3,4,5	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	9'0"	PT 5	
105	Girl's Room	PCT	PCT	CT / PT	CT / PT	CT / PT	CT / PT	ACT	8'0"	PT 5	See elev. for patterns
106	Boy's Room	PCT	PCT	CT / PT	CT / PT	CT / PT	CT / PT	ACT	8'0"	PT 5	See elev. for patterns
107	Corridor F	VCT 1,2,3,4	RB 1	PT 4	PT 4	PT 4	PT 4	ACT / GWB / PT 6	9'0"	PT 5	Match exist. height, see plan for soffit; 12x12 Tile wainscott to match existing, min. 4'-0"H
108	Corridor B	VCT 1,2,3,4	RB 1	PT 4	PT 4	PT 4	PT 4	ACT	Exist.	PT 5	12x12 Tile wainscott to match existing, min. 4'-0"H
109	Girl's Room	PCT	PCT	CT / PT	CT / PT	CT / PT	CT / PT	ACT	Exist.	PT 5	
110	Janitor	VCT 1	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	Exist.	PT 5	Patch into existing
111	Corridor A	VCT 1,4	RB 1	PT 4	PT 4	PT 4	PT 4	ACT	8'8"	PT 5	12x12 Tile wainscott to match existing, min. 4'-0"H
111A	Corridor C	VCT 1,4	RB 1	PT 4	PT 4	PT 4	PT 4	ACT	8'8"	PT 5	12x12 Tile wainscott to match existing, min. 4'-0"H
112	Library	Patch CPT 2	RB 2	PT	PT	PT	PT	ACT	12'0"	PT 5	Match exist. clg. height; match PT color
112A	Hallway E	Patch CPT 2	RB 2	PT	PT	PT	PT	ACT	12'0"	PT 5	Match exist. clg. height; match PT color
113	A/V Room	VCT	RB 1	PT	PT	PT	PT	ACT	9'0"	PT 5	
114	French	CPT 2	RB 2	PT 1	PT	PT	PT	ACT	9'0"	PT 5	
115	Spanish	CPT 2	RB 2	PT 1	PT	PT	PT	ACT	9'0"	PT 5	
116	Storage	VCT	RB 1	PT 1	PT	PT	PT	ACT	Exist.	PT 5	Patch clg.
117	Cafetorium Addition	VCT 1,2,5	RB 1	PT 1	PT	PT	PT	ACT	13'0"	PT 5	Exposed clg. Paint structure & ducts
118	Main Office	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	8'8"	PT 5	
119	Copy	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	Exist.	PT 5	
120	Records	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	8'8"	PT 5	
121	Assistant Principal	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	8'8"	PT 5	
122	Principal	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	8'8"	PT 5	
123	Conference	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	8'8"	PT 5	
124	Storage	CPT 1	RB 2	PT 2	PT	PT	PT	ACT	8'0"	PT 5	
125	Corridor 125	Exist. VCT	RB 1	PT	PT	PT	PT	ACT	Exist.	PT 5	Match exist. color to patch
126	Nurse	VCT 1	RB 1	PT 1	PT	PT	PT	ACT	8'8"	PT 5	
127	Toilet	PCT	PCT	CT / PT	CT / PT	CT / PT	CT / PT	ACT	8'0"	PT 5	See elev. for patterns
128	Exam	VCT 1	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	8'0"	PT 5	
129	Teacher's Lounge	VCT 1	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	8'8"	PT 5	
130	Copy Room	VCT 1	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	8'8"	PT 5	
131	Elevator Corridor	VCT 1,4	RB 1	PT 4	PT 4	PT 4	PT 4	ACT	Exist.	PT 5	Patch clg.
201	Classroom	VCT 1,3,4,5	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	9'0"	PT 5	
202	Sail	VCT 1,3	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	9'0"	PT 5	
203	Classroom	VCT 1,3,4,5	RB 1	PT 1	PT 1	PT 1	PT 1	ACT	9'0"	PT 5	
204	Toilet	PCT	PCT	CT / PT	CT / PT	CT / PT	CT / PT	ACT	8'0"	PT 5	See elev. for patterns
205	Corridor D	VCT 1,4	RB 1	PT 3	PT 3	PT 3	PT 3	ACT	9'0"	PT 5	12x12 Tile wainscott to match existing, min. 4'-0"H
206	Girl's Room	PCT	PCT	PCT / PT	PCT / PT	PCT / PT	PCT / PT	ACT	9'0"	PT 5	
207	Janitor	VCT 1	RB 1	PT	PT	PT	PT	ACT	9'0"	PT 5	
208	Corridor H	VCT 1	RB 1	PT 4	PT 4	PT 4	PT 4	ACT / GWB / PT 6	9'0"	PT 5	Match exist. height, see plan for soffit; 12x12 Tile wainscott to match existing, min. 4'-0"H
209	Corridor J	VCT 1	RB 1	PT 4	PT 4	PT 4	PT 4	ACT / GWB / PT 6	9'0"	PT 5	Match exist. height, see plan for soffit; 12x12 Tile wainscott to match existing, min. 4'-0"H

**Transition strips shall be installed at all floor material changes. Transition strips as specified.
**Colors to be selected from submitted manufacturer. See specs for colors chosen from single manufacturer.
***Tiles at floor shall be porcelain.

PT 1 = Field, color to be selected by architect
PT 2 = Field, color to be selected by architect
PT 3 = Field, color to be selected by architect
PT 4 = Accent, color to be selected by architect
PT 5 = Door frames & trim paint, color to be selected by architect
PT 6 = Ceiling, color to be selected by architect

CB 1= 4" Cove Base, color to be selected by architect
CB 2= 4" Cove Base, color to be selected by architect

CT 1 = 4x4 Field Tile, color to be selected by architect
CT 2 = 4x4 Field Tile, color to be selected by architect
CT 3 = 4x4 Field Tile, color to be selected by architect
CT 4 = 6x12 Field Tile, color to be selected by architect

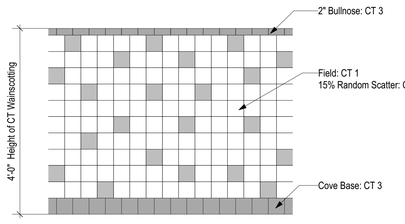
PCT = Porcelain12x12 Field Tile, color to be selected by architect

VCT 1 = Field, white to match existing
VCT 2 = Accent, green to match existing
VCT 3 = Accent, yellow as selected by architect
VCT 4 = Accent, red to match existing
VCT 5 = Accent, blue to match existing

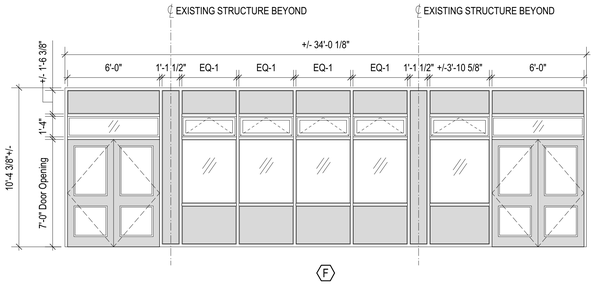
CPT 1 = Carpet tile, color to be selected by architect
CPT 2 = Carpet tile, color to be selected by architect

RB 1 = 4" Rubber base, color to be selected by architect
RB 2 = 4" Rubber base, color to be selected by architect

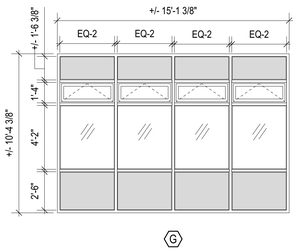
ACT = 2x2 Lay-in tile in exposed T-grid



CERAMIC WALL TILE PATTERN

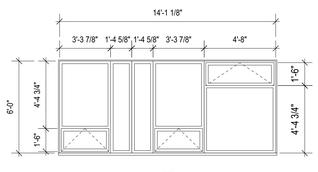


4-1/2" Thermally broken, aluminum framed storefront entrance system w/ low-e insulating glass

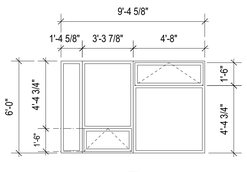


4-1/2" Thermally broken, aluminum framed storefront entrance system w/ low-e insulating glass

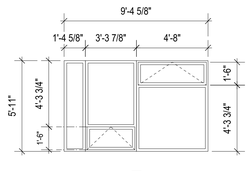
STOREFRONT SCHEDULE



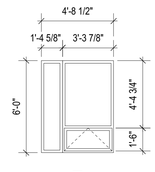
5" Thermally broken, aluminum framed w/ low-e insulating glass



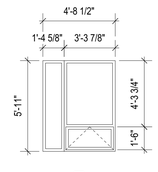
5" Thermally broken, aluminum framed w/ low-e insulating glass



5" Thermally broken, aluminum framed w/ low-e insulating glass



5" Thermally broken, aluminum framed w/ low-e insulating glass



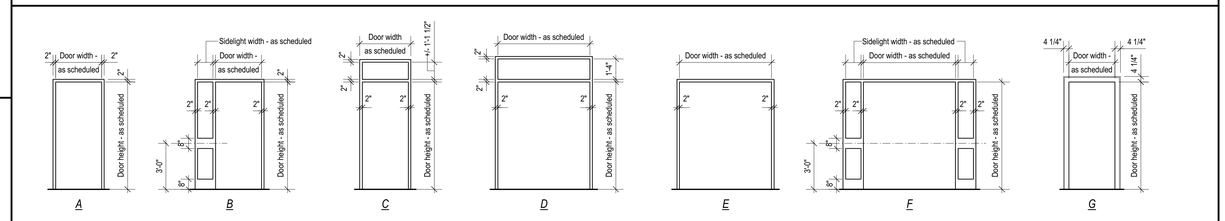
5" Thermally broken, aluminum framed w/ low-e insulating glass

WINDOW SCHEDULE

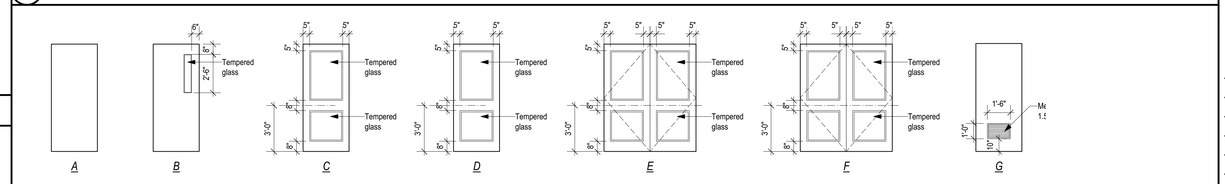
DOOR SCHEDULE

Door ID	Location	Door Type	Width	Height	Thk	Material	Glazing	Frame Type	Frame Material	Head & Jamb	Hardware Set (See Spec.)	Accessories	Fire Rating	Remarks
101	Corridor : Classroom 101	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
102	Existing Classroom : Classroom 101	B	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	See 3/A-5.4	A			Expansion Joint
103	Corridor : SPED Office	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
104	Corridor : Classroom 104	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
105	Stair : Classroom 104	B	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	See 3/A-5.4	A		45 Min.	Expansion Joint
106	Corridor : Girl's	G	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	A	D	Threshold		
107	Corridor : Boy's	G	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	A	D	Threshold		
108	Corridor : Corridor A	F	6'0"	7'0"	1 3/4"	Mtl.	Yes	E	Mtl.	A	E		Smoke Door	
109	Corridor : Corridor A	F	6'0"	7'0"	1 3/4"	Mtl.	Yes	F	Mtl.	A	E		Smoke Door	
110	Storage : Corridor	A	3'0"	7'0"	1 3/4"	Mtl.	Yes	A	Mtl.	A	B			
111	Corridor : French	B	3'0"	7'0"	1 3/4"	Wd.	Yes	B	Mtl.	A	A	Transition Strip		
112	Spanish : French	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
113	Corridor : Spanish	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A	Transition Strip		
114	Cafetorium Addition : Exterior	E	6'0"	7'0"	1 3/4"	Alum.	Yes	D	Alum.	See 5/A-5.2	F	Card Reader		Number door per fire department
115	Cafetorium Addition : Exterior	E	6'0"	7'0"	1 3/4"	Alum.	Yes	D	Alum.	See 5/A-5.2	F	Card Reader		Number door per fire department
116	Assistant Principal : Exterior	D	3'0"	7'0"	1 3/4"	Alum.	Yes	C	Alum.	See 7/A-5.2	G	Card Reader		Transon 1'0"; Number door per fire department
117	Storage : Corridor	A	3'0"	7'0"	1 3/4"	Mtl.	No	A	Alum.	A	B			
201	Corridor : Classroom 201	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
202	Existing Classroom : Classroom 201	B	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	See 3/A-5.4	A			Expansion Joint
203	Corridor : Sail	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
204	Corridor : Classroom 203	B	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	A			
205	Stair : Classroom 203	B	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	See 3/A-5.4	A		45 Min.	Expansion Joint
206	Corridor : Toilet	G	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	A	C	Threshold		
E 01	Corridor A : Girl's	Exist.	3'0"	7'0"	Exist.	Exist.	Exist.	A	Mtl.	Exist.	Exist.			New metal frame
E 02	Hallway E : Corridor A	Exist.	3'5 3/4"	7'0"	Exist.	Exist.	Exist.	Exist.	Exist.	Exist.	Exist.			No Work
E 03	Hallway E : Corridor A	Exist.	3'5 3/4"	7'0"	Exist.	Exist.	Exist.	Exist.	Exist.	Exist.	Exist.			No Work
E 04	Corridor : Existing Tel / Data	Exist.	3'0"	7'0"	Exist.	Exist.	Exist.	Exist.	Exist.	Exist.	Exist.			No Work
E 05	Storage : Conference	A	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	A	B			
E 06	Copy : Records	Exist.	3'0"	7'0"	1 3/4"	Wd.	No	G	Mtl.	Exist.	Exist.			New wood frame
E 07	Main Office : Assistant Principal	Exist.	3'0"	7'0"	1 3/4"	Wd.	Yes	G	Mtl.	Exist.	Exist.			New wood frame
E 08	Main Office : Principal	Exist.	3'0"	7'0"	1 3/4"	Wd.	Yes	G	Mtl.	Exist.	Exist.			New wood frame
E 09	Main Office : Conference	Exist.	3'0"	7'0"	1 3/4"	Wd.	Yes	G	Mtl.	Exist.	Exist.			New wood frame
E 10	Corridor : Teacher's Lounge	Exist.	3'0"	7'0"	1 3/4"	Mtl.	Yes	G	Mtl.	Exist.	Exist.			New wood frame
E 11	Elevator Corridor : Copy Room	Exist.	3'0"	7'0"	1 3/4"	Mtl.	No	G	Mtl.	Exist.	Exist.			New wood frame
E 12	Corridor 125 : Nurse	C	3'0"	7'0"	1 3/4"	Wd.	No	G	Mtl.	B	A			
E 13	Nurse : Toilet	A	3'0"	7'0"	1 3/4"	Wd.	Yes	A	Mtl.	A	C			
E 14	Nurse : Exam	A	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	A	C			
E 15	Corridor D : Girl's 206	Exist.	3'0"	7'0"	Exist.	Exist.	Exist.	A	Mtl.	Exist.	Exist.			New metal frame
E 16	Hallway E : A/V Room	A	3'0"	7'0"	1 3/4"	Wd.	No	A	Mtl.	A	A			

**Doors noted "E" shall be removed, stored & reinstalled in new frames at new locations. Repaint or refinish doors.

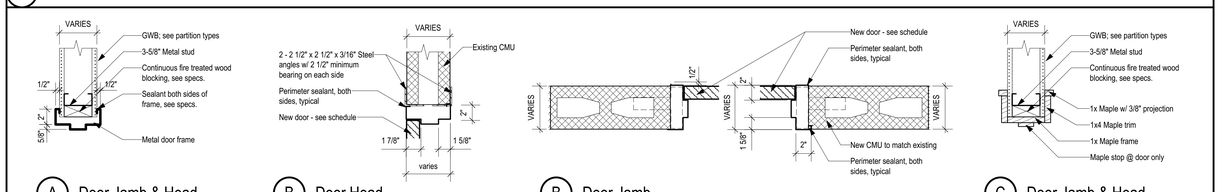


FRAME TYPES



DOOR NOTES:
1. ALL GLAZING @ DOORS & SIDELIGHTS SHALL BE TEMPERED

DOOR TYPES



DOOR FRAME DETAILS - NTS

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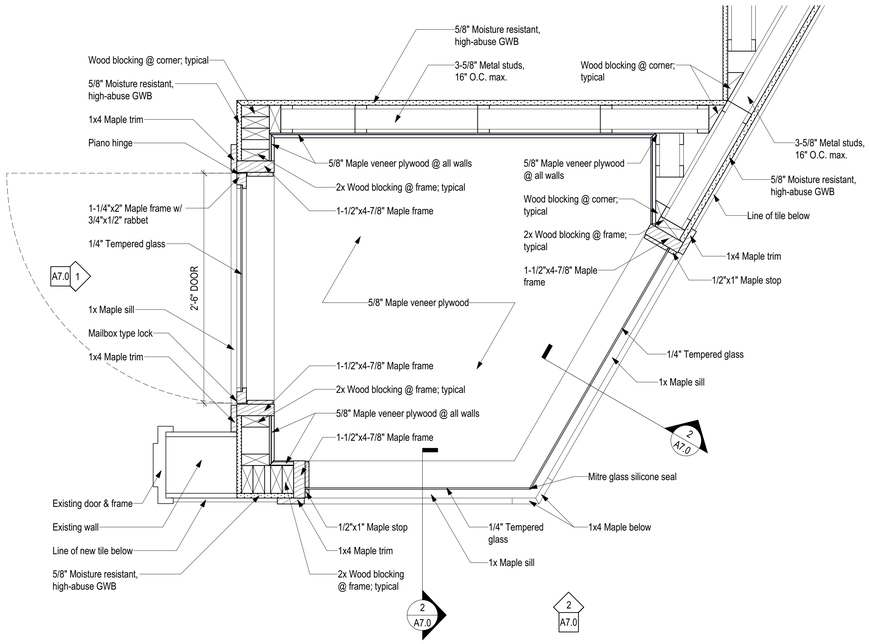
AS NOTED

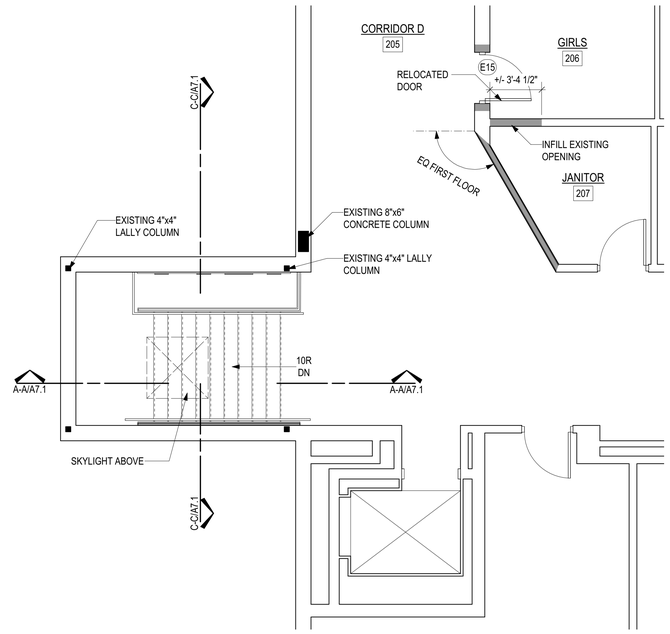
DOOR SCHEDULE
FINISH SCHEDULE
FRAME TYPES
DOOR TYPES
WINDOW SCHEDULE

TBA PROJECT # 1258

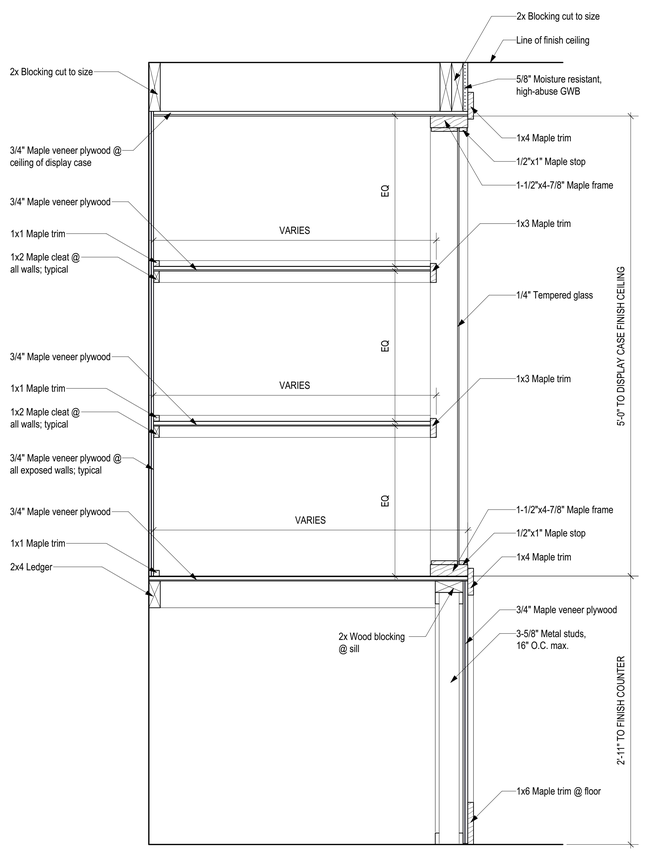
A-6.0



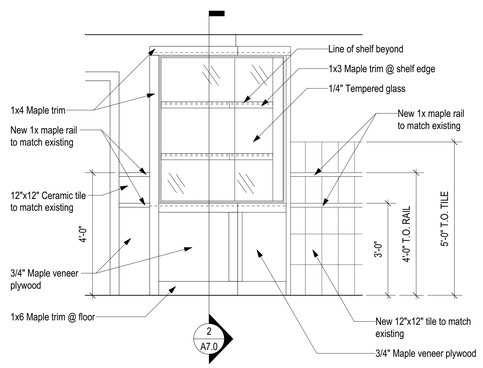
1 DISPLAY CASE PLAN DETAIL



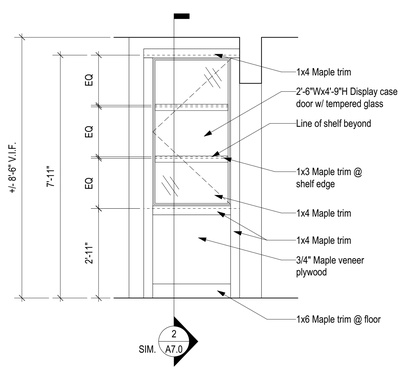
SPLIT STAIR ENLARGED SECOND FLOOR PLAN



2 DISPLAY CASE SECTION DETAIL

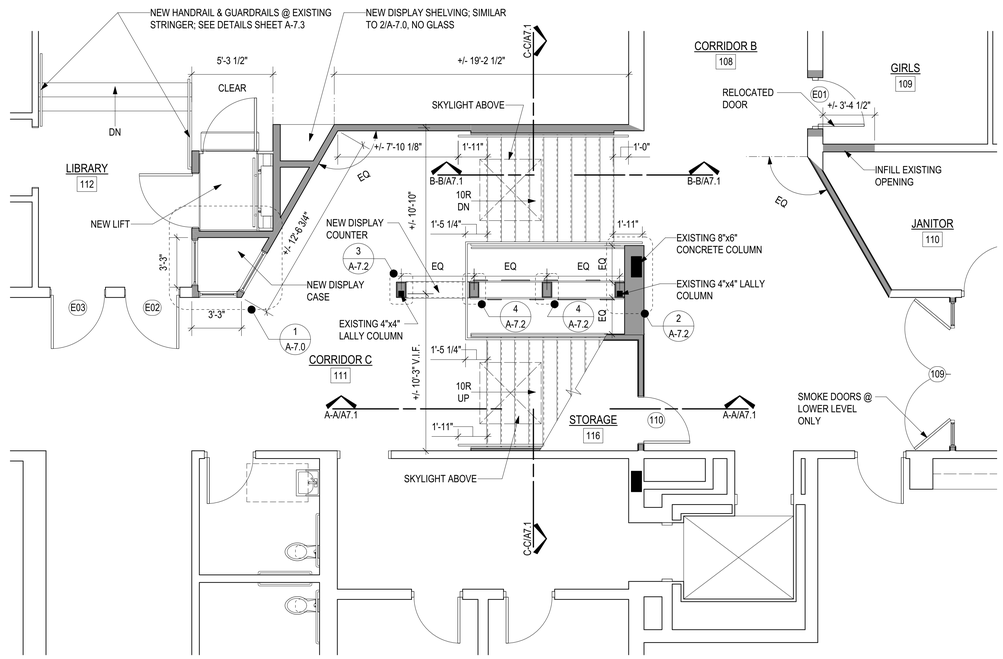


2 DISPLAY CASE CORRIDOR ELEVATION



1 DISPLAY CASE CORRIDOR ELEVATION

DISPLAY CASE ELEVATIONS



SPLIT STAIR ENLARGED FIRST FLOOR PLAN

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ENLARGED PLANS AT SPLIT STAIR

DISPLAY CASE DETAILS

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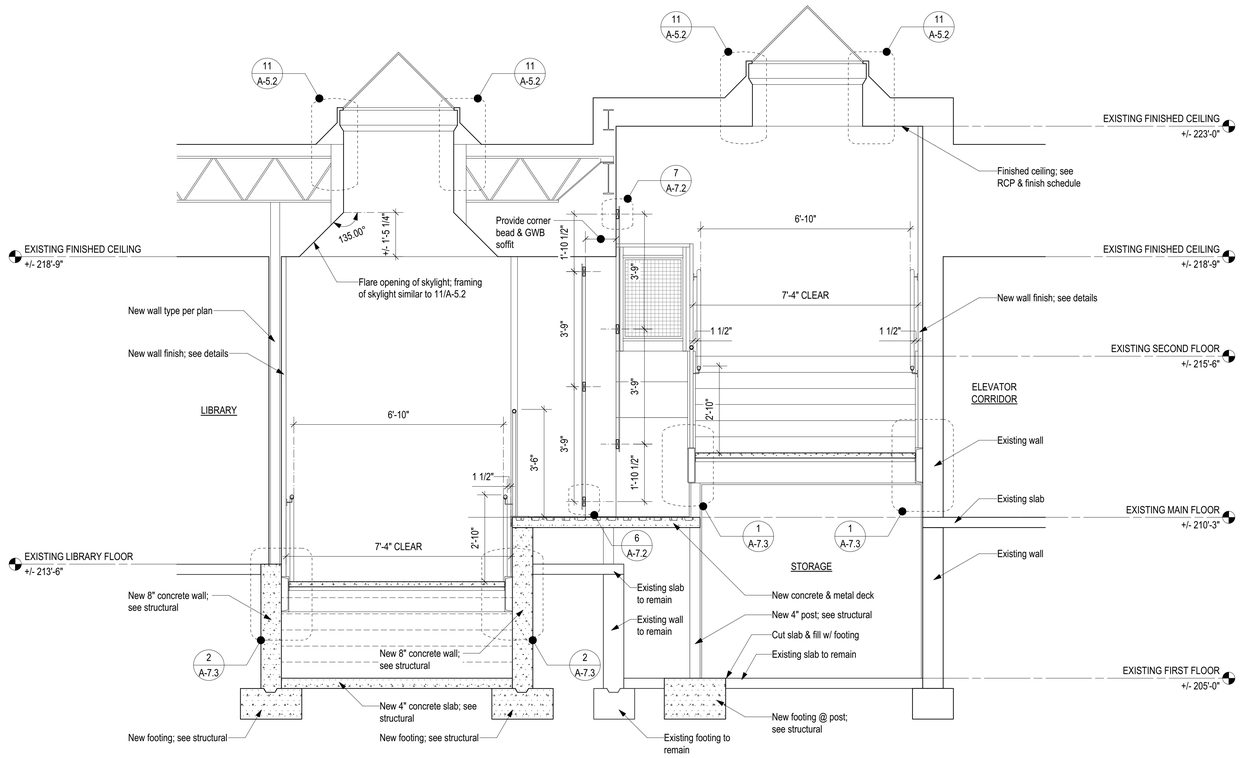
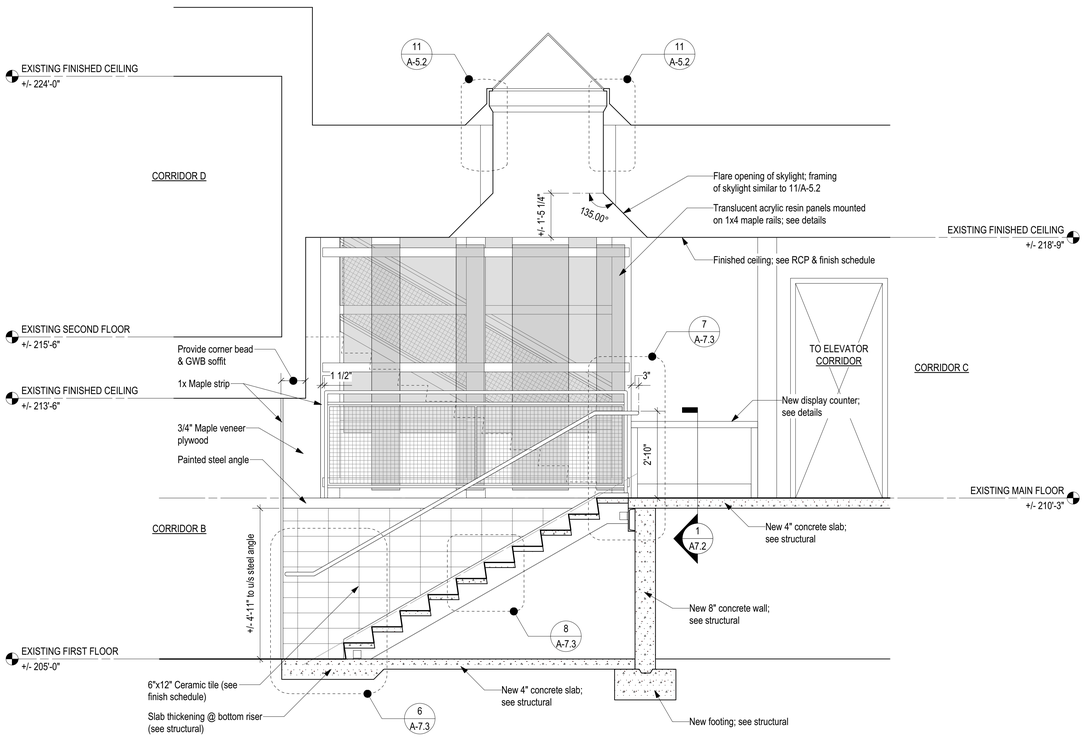


SECTION C-C



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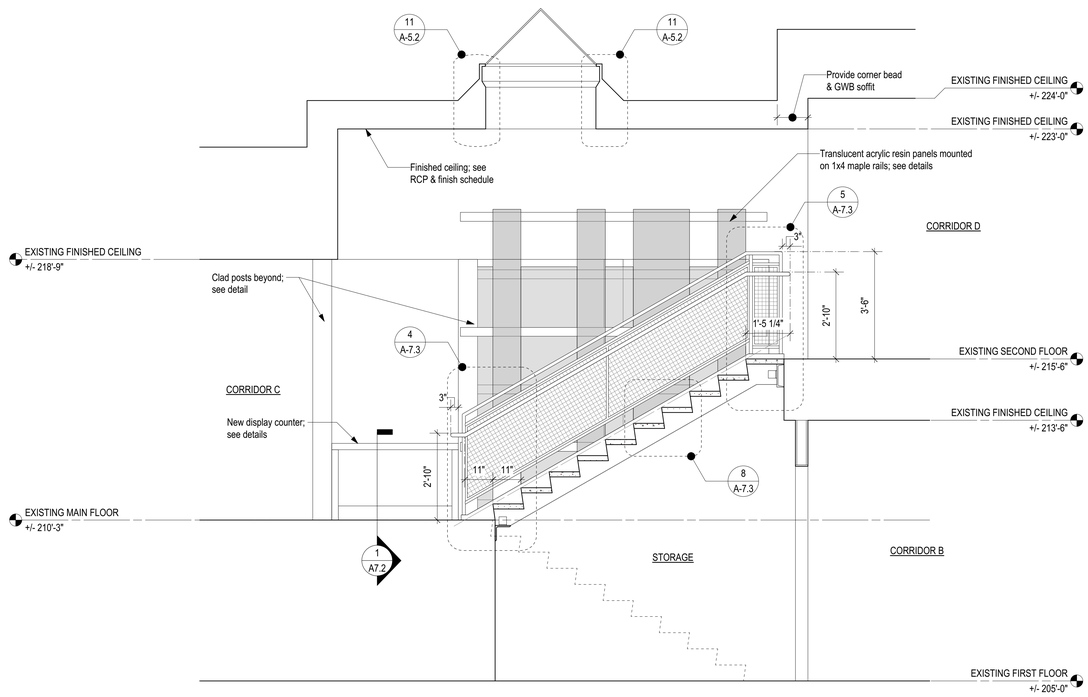

SECTION A-A

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SECTIONS AT SPLIT STAIR

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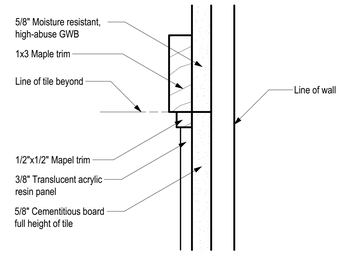
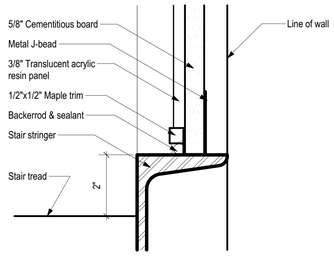
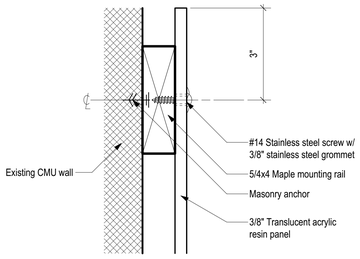


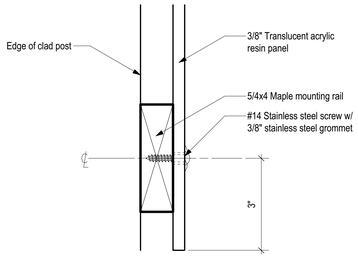
9 TRANSLUCENT PANEL DETAIL @ TRIM
SCALE: HALF ACTUAL SIZE



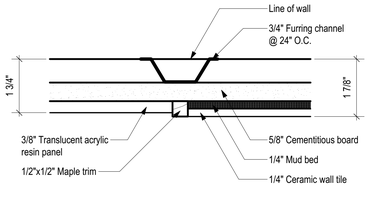
8 TRANSLUCENT PANEL DETAIL @ STRINGER
SCALE: HALF ACTUAL SIZE



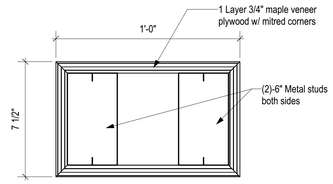
7 TRANSLUCENT PANEL DETAIL @ EXISTING WALL
SCALE: HALF ACTUAL SIZE



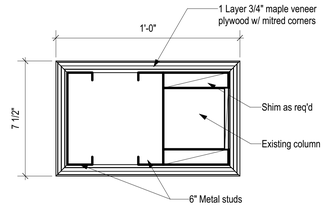
6 TRANSLUCENT PANEL DETAIL
SCALE: HALF ACTUAL SIZE



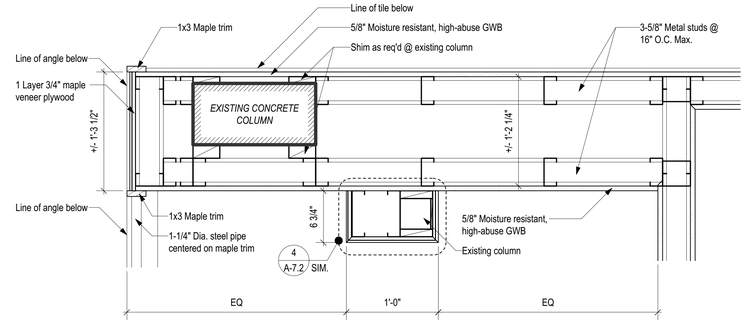
5 PLAN DETAIL @ STAIR WALL
SCALE: HALF ACTUAL SIZE



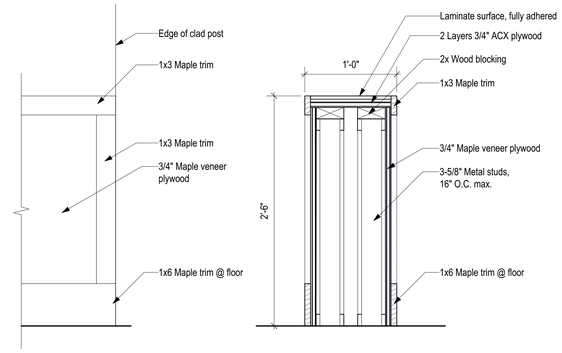
4 DETAIL @ NEW COLUMN
SCALE: 3" = 1'-0"



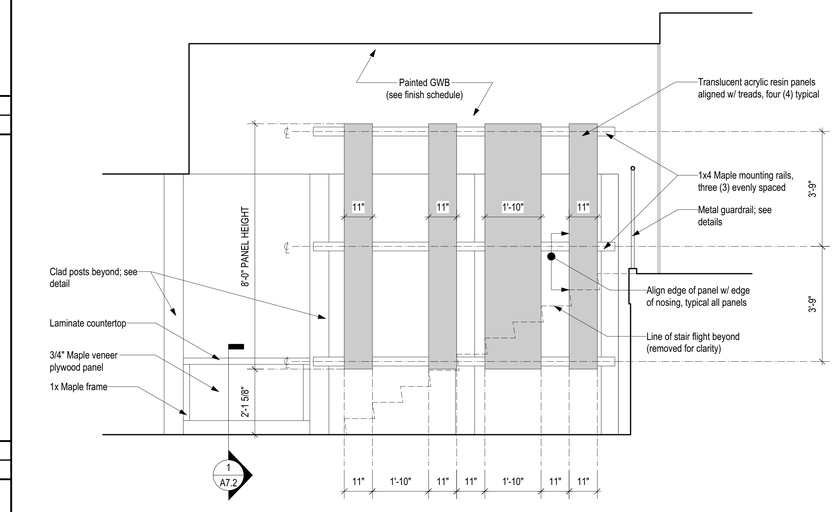
3 DETAIL @ EXISTING COLUMN
SCALE: 3" = 1'-0"



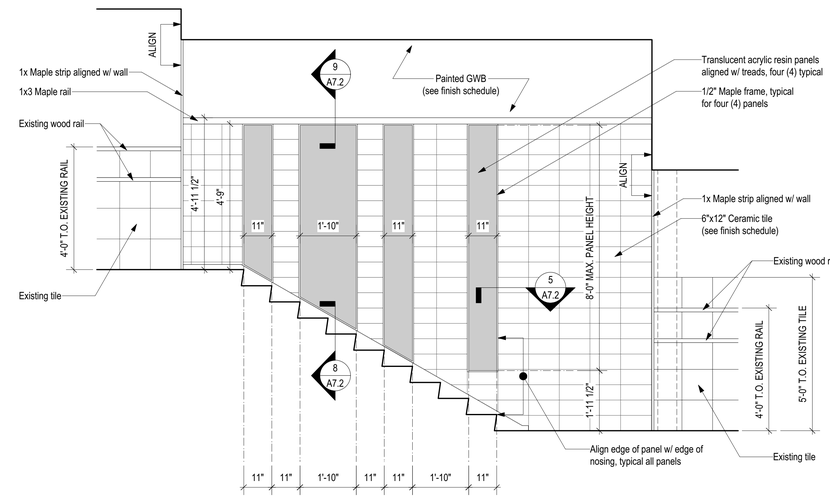
2 PLAN DETAIL @ EXISTING CONCRETE COLUMN
SCALE: 1 1/2" = 1'-0"



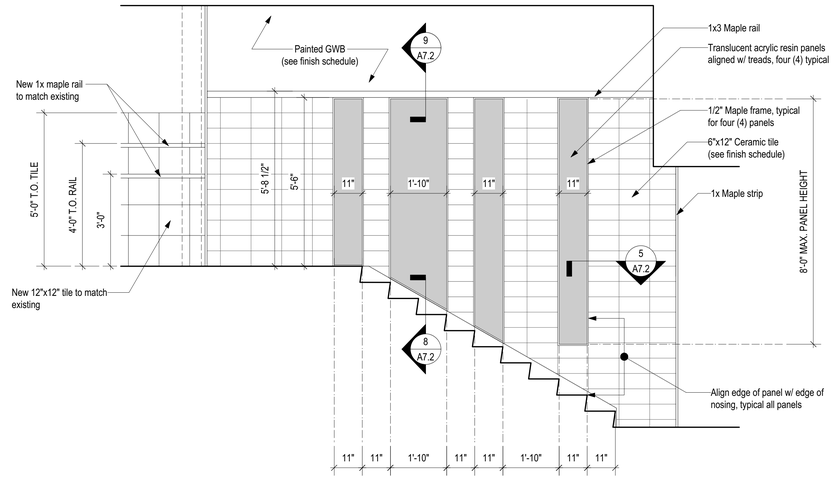
1 DETAILS @ DISPLAY COUNTER
SCALE: 1 1/2" = 1'-0"



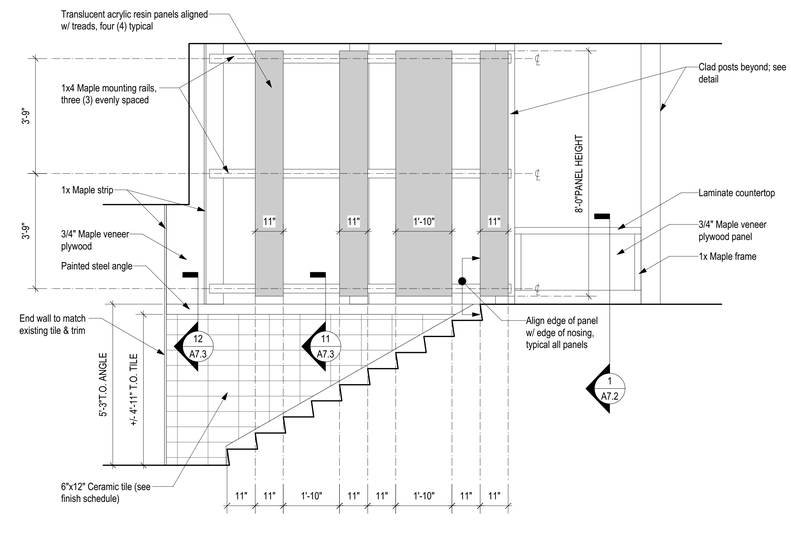
UP FLIGHT WEST INTERIOR ELEVATION



UP FLIGHT EAST WALL INTERIOR ELEVATION



DOWN FLIGHT WEST INTERIOR ELEVATION



DOWN FLIGHT EAST WALL INTERIOR ELEVATION

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INTERIOR ELEVATIONS AT SPLIT STAIR

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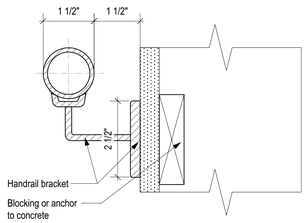
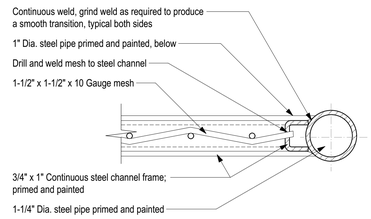
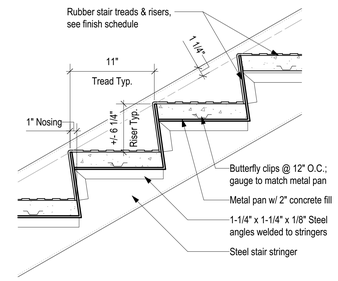
A-7.2



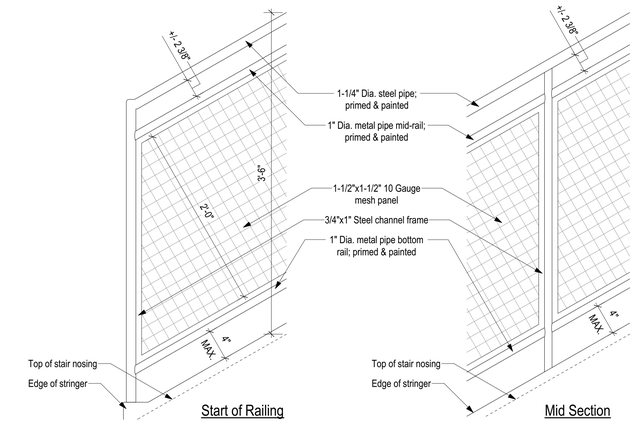
10 PIPE RAIL CROSS SECTION DETAIL
SCALE: HALF ACTUAL SIZE



9 GUARDRAIL PLAN DETAIL
SCALE: HALF ACTUAL SIZE



8 TYPICAL TREAD DETAIL
SCALE: 1 1/2" = 1'-0"



3 TYPICAL RAILING ELEVATION DETAILS
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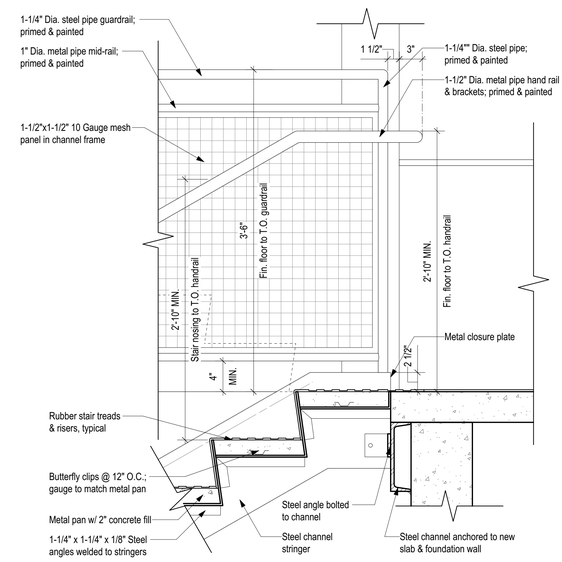
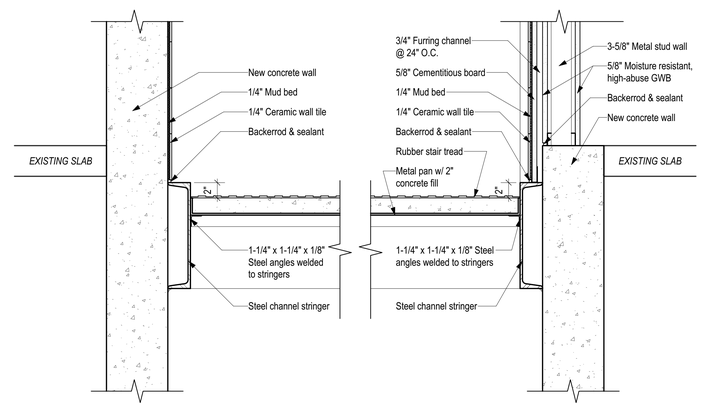


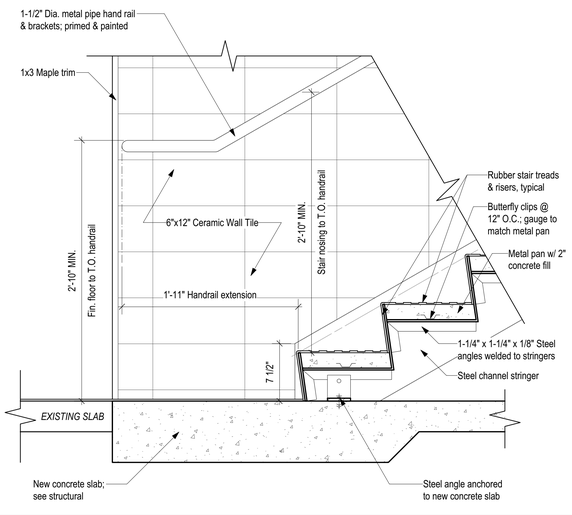
7 TOP RISER DETAIL @ NEW STRUCTURE
SCALE: 1 1/2" = 1'-0"

5 TOP RISER DETAIL @ EXISTING STRUCTURE
SCALE: 1 1/2" = 1'-0"

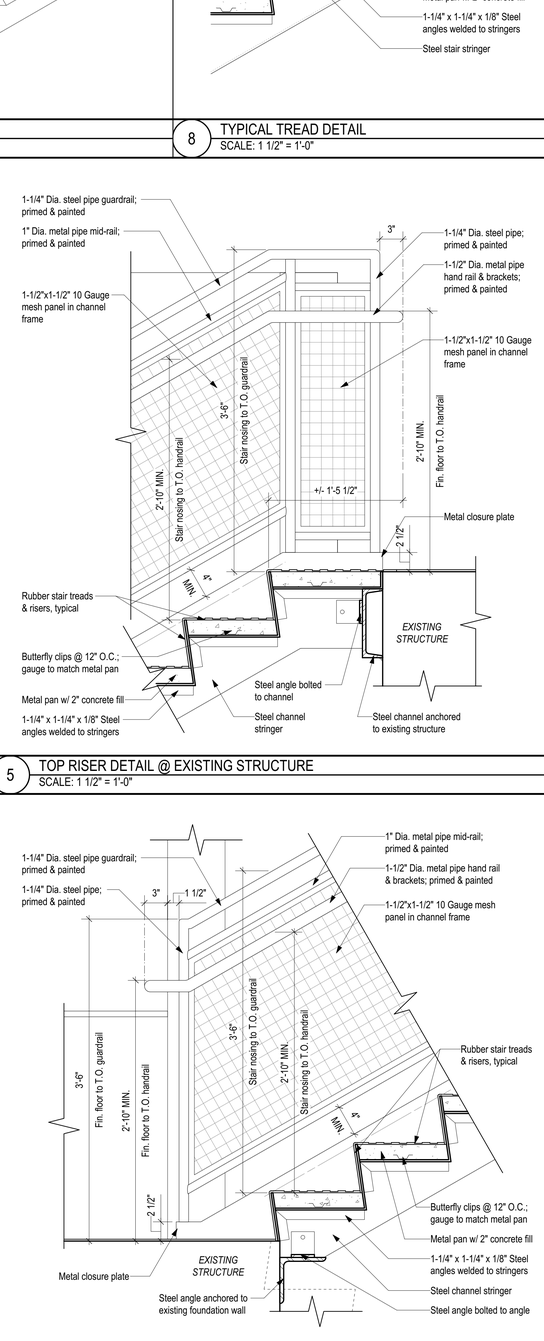


2 STAIR DETAIL @ NEW WALLS
SCALE: 1 1/2" = 1'-0"

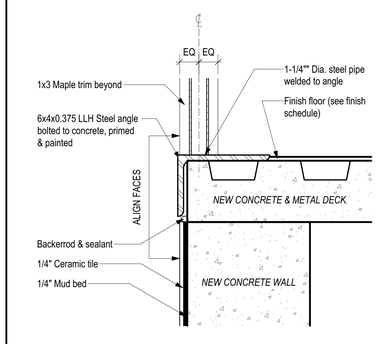
12 STEEL ANGLE DETAIL @ WALL
SCALE: 3" = 1'-0"



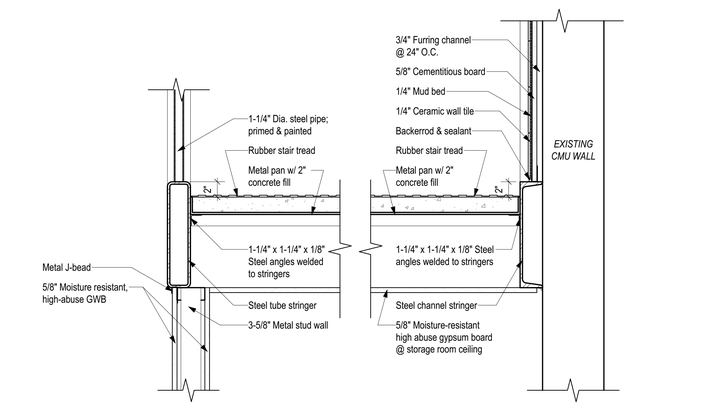
6 BOTTOM RISER DETAIL @ NEW STRUCTURE
SCALE: 1 1/2" = 1'-0"



4 BOTTOM RISER DETAIL @ EXISTING STRUCTURE
SCALE: 1 1/2" = 1'-0"



11 STEEL ANGLE DETAIL @ RAILING
SCALE: 3" = 1'-0"



1 STAIR DETAIL @ EXISTING WALL
SCALE: 1 1/2" = 1'-0"

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STAIR DETAILS

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A-7.3

MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE ± ¼ INCH FOR SECTIONS 10 INCHES THICK OR LESS; AND ±

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GENERAL NOTES AND ABBREVIATIONS

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S-0.1

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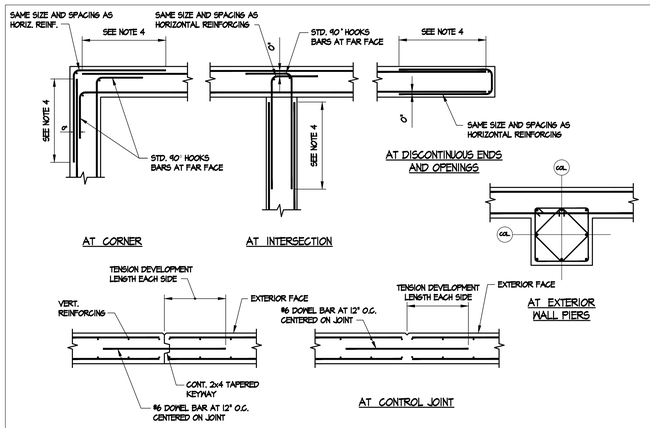
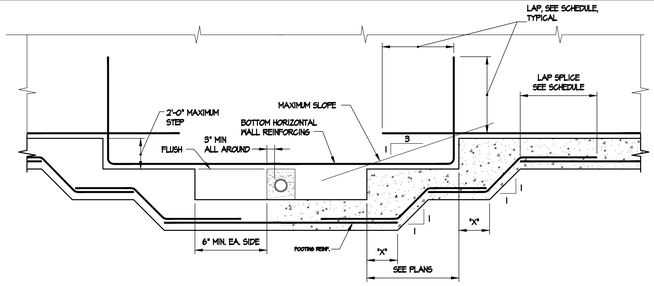


NOTES:

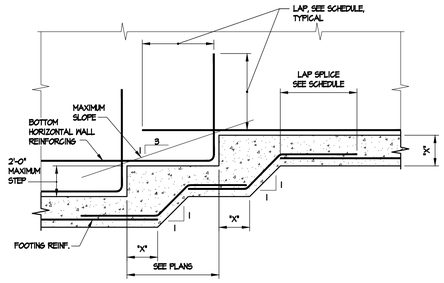
1. STOP HORIZONTAL WALL REINFORCING AT JOINT
2. PROVIDE ¾" CHAMFER
3. LOCATE JOINTS 5 FEET MINIMUM FROM ALL CORNERS AND AT 60 FOOT MAXIMUM INTERVALS.
4. PROVIDE CLASS C TENSION LAP SPLICE

TYPICAL FOUNDATION WALL DETAILS



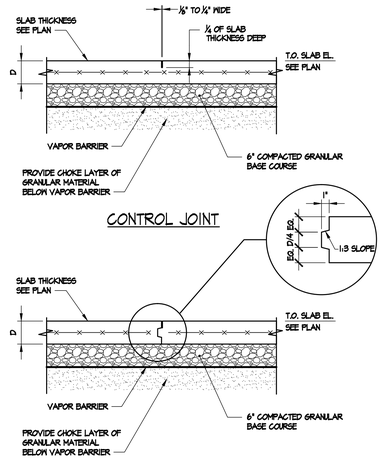
FOUNDATION WALL AT PIPE PENETRATION

NTS



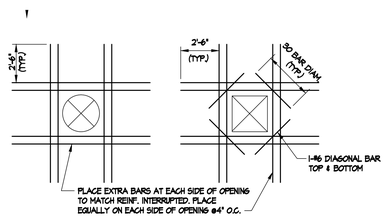
STEPPED FOOTING DETAIL

NTS



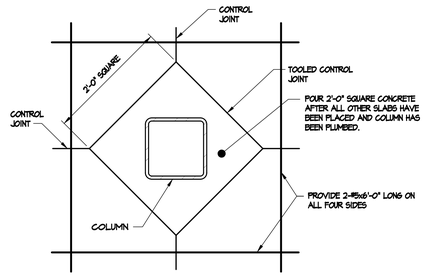
TYP. SLAB ON GRADE JOINT DETAILS

NTS



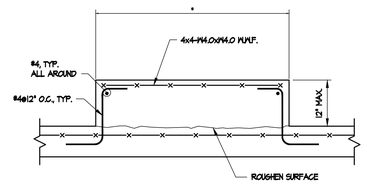
TYP. OPENING IN WALL OR SLAB

N.T.S.



COLUMN ISOLATION JOINT DETAIL

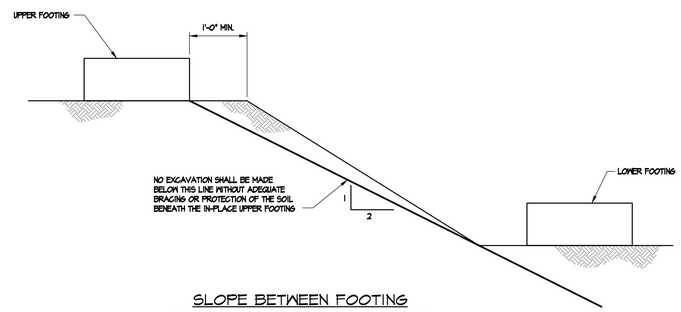
N.T.S.



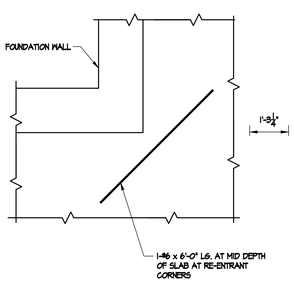
* SEE MECH. DWG. FOR SIZE AND LOCATION

TYP. HOUSEKEEPING PAD DETAIL

NTS

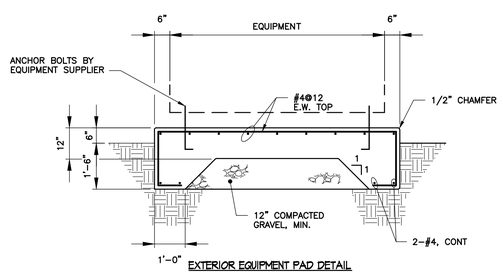


SLOPE BETWEEN FOOTING AND ADJACENT CONSTRUCTION



INSIDE CORNER SLAB EDGE PLAN

N.T.S.



EXTERIOR EQUIPMENT PAD DETAIL

NTS

NOTES:

1. SEE CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR LOCATIONS.
2. FOR BOTTOM SLAB OF BURIED FUEL OIL TANK, SEE DRAWING C-6.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	LEVELING PLATE	ANCHOR BOLTS
C1	HSS6x6x5/16	1"x12"x1'-0"	¼"x12"x1'-0"	4-3/4"X1'-0"

FOUNDATION SCHEDULE

MARK	SIZE	REINFORCING
F1	4'-0" x 4'-0" x 1'-0"	5-#6 E.W. BOT.
F2	5'-0" x 5'-0" x 1'-0"	5-#6 E.W. TOP 5-#6 E.W. BOT.
F3	6'-0" x 6'-0" x 1'-0"	5-#6 E.W. BOT.
F4	6'-0" x 6'-0" x 1'-0"	5-#6 E.W. TOP 5-#6 E.W. BOT.
F5	7'-0" x 7'-0" x 1'-0"	6-#6 E.W. TOP 6-#6 E.W. BOT.
F6	7'-0" x 7'-0" x 1'-6"	7-#6 E.W. BOT.

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SCALE
NOT TO SCALE

CONCRETE TYPICAL DETAILS

TBA PROJECT # 1258

S-0.2

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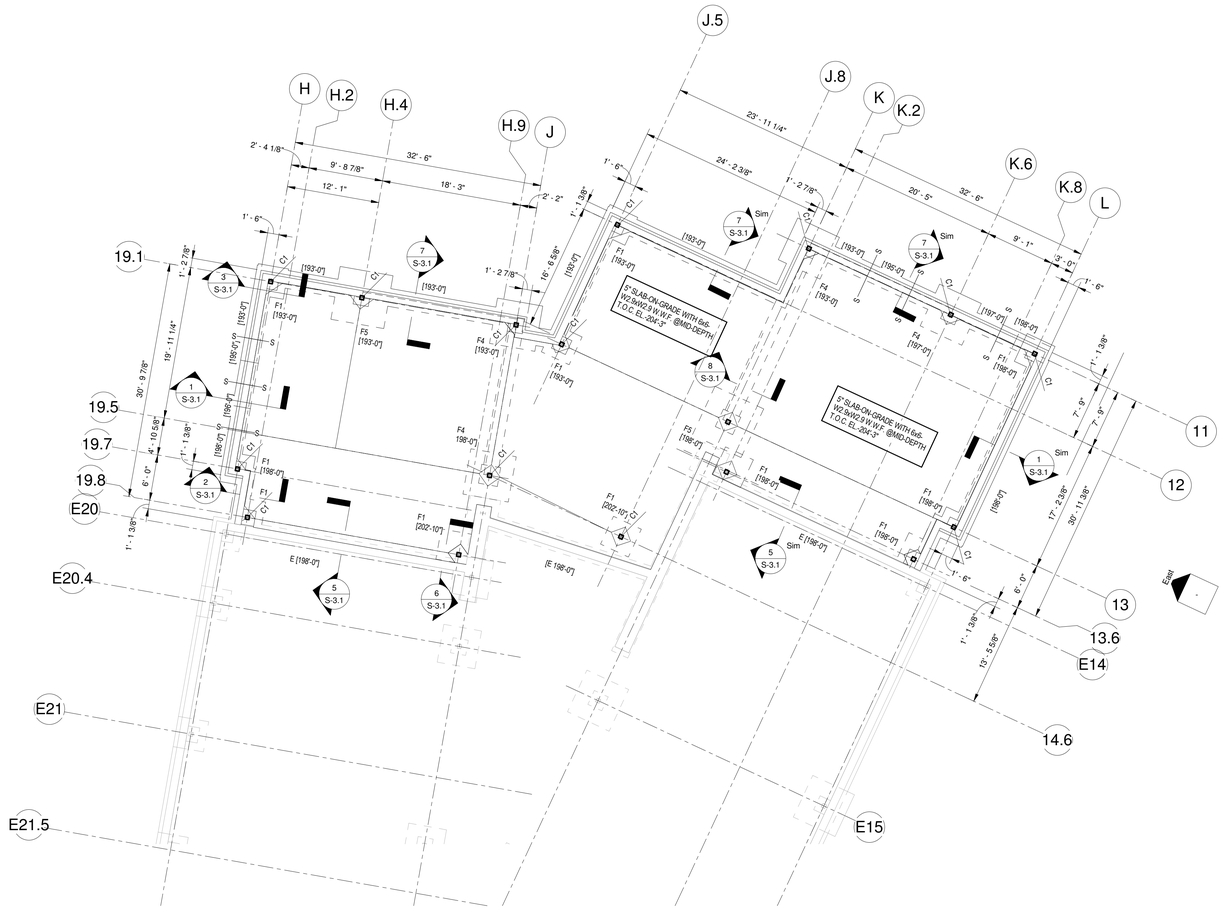

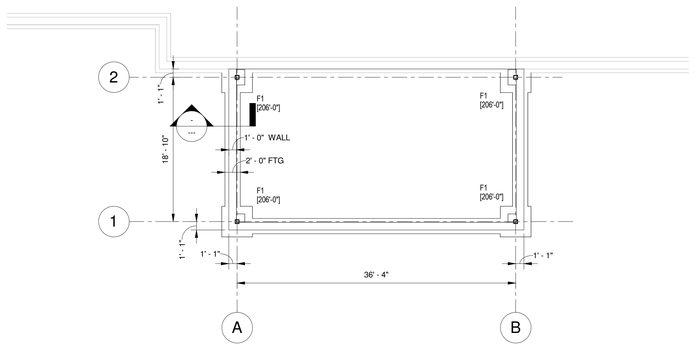

CAFETOREUM FOUNDATION PLAN

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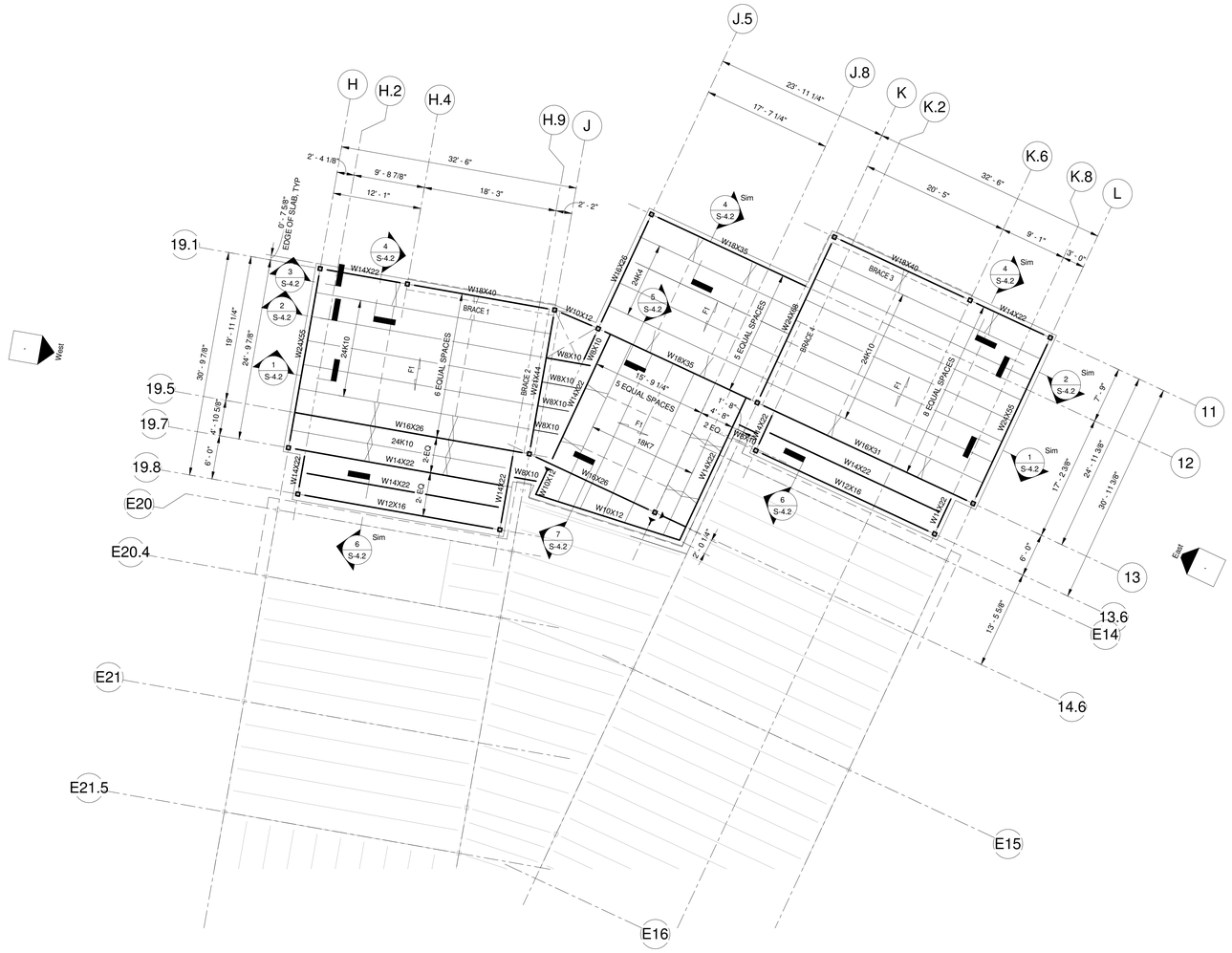
SCALE
1/8" = 1'-0"

FOUNDATION PLAN

TBA PROJECT # 1258

S.1.1



NOTES:

1. TOP OF STEEL ELEVATION, UNDERSIDE OF DECK, SHALL BE 215'-11" UNLESS OTHERWISE NOTED THUS (±0'-0"). GIRDERS SUPPORTING K-SERIES JOISTS SHALL BE AT EL. (-0'- 2 1/2") FROM TOP OF STEEL.
2. F1 INDICATES SPAN DIRECTION OF 4" NORMAL WEIGHT CONCRETE SLAB ON 9/16" , 28 GAGE GALV. FORM DECK (4" TOTAL THICKNESS) REINFORCED WITH 6x6, W2.9xW2.9 W.W.F.
3. T.J. INDICATES TIE JOIST LOCATION WITH BOTTOM CHORD EXTENSION TO GIRDER OR COLUMN.
4. ALL JOISTS SHALL HAVE THE MINIMUM SJI RECOMMENDED FACTORY SET CAMBER.
5. INDICATES BRACE FRAME LOCATION
6. V.I.F. INDICATES THE CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION

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SCALE
1/8" = 1'-0"

SECOND FLOOR FRAMING PLAN

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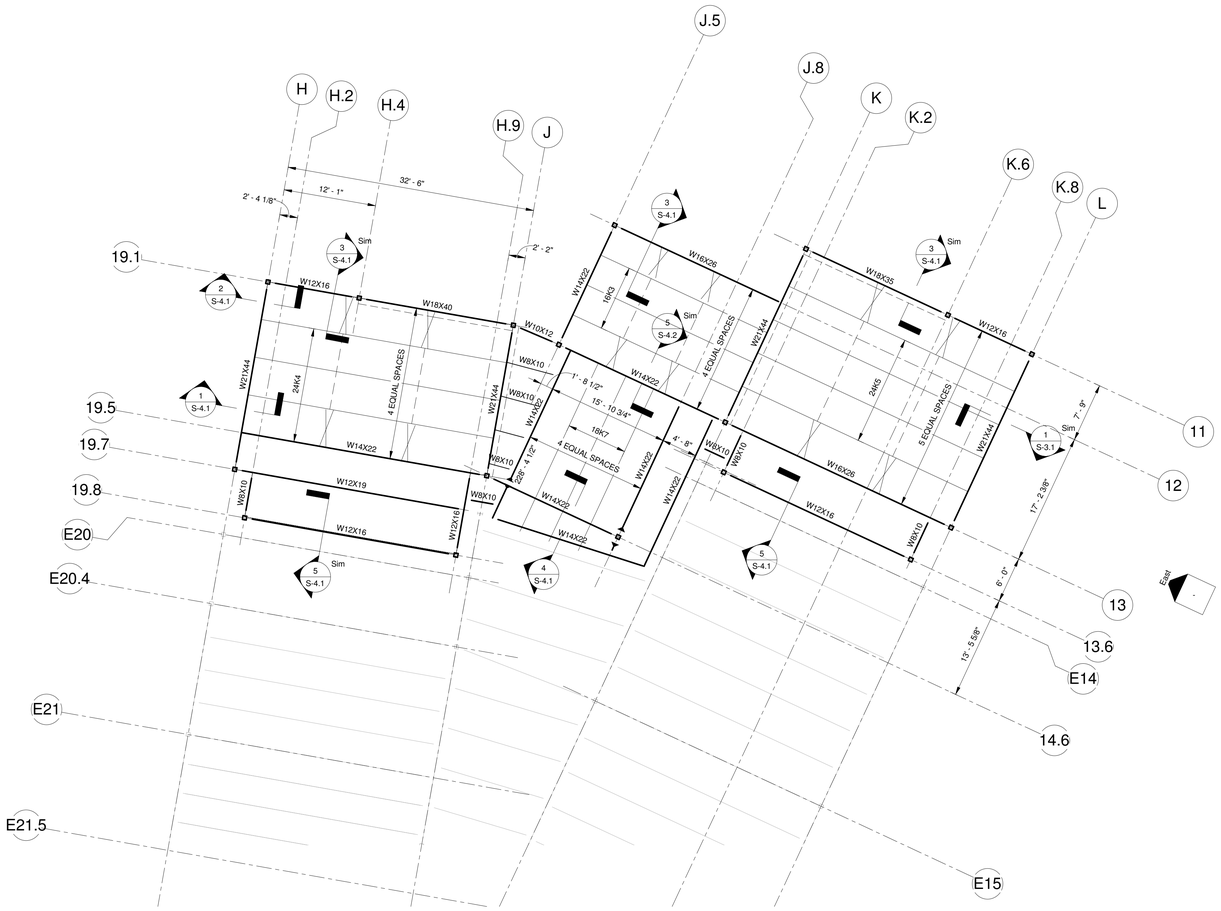
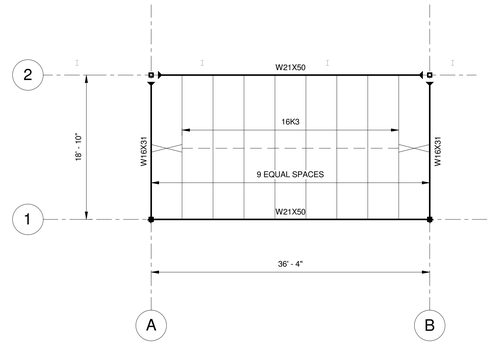
S-1.2





CAFETOREUM ROOF PLAN

NOTES:

1. TOP OF STEEL ELEVATION , TO UNDERSIDE OF DECK SHALL BE EL. 228'-7" UNLESS OTHERWISE NOTED BY (+ 0'-0"). T.O.S FOR ALL GIRDERS SUPPORTING K SERIES STEEL JOISTS SHALL BE 2 1/2" LESS THAN THE INDICATED TOP OF STEEL.
2. INDICATES DIRECTION OF SPAN OF 1 1/2", TYPE B, WIDE RIB GALVANIZED STEEL DECK.
3. T.J. INDICATES A TIE JOIST LOCATION WITH JOIST BOTTOM CHORD EXTENSION TO GIRDER OR COLUMN.
4. ALL JOISTS SHALL HAVE THE MINIMUM SJI RECOMMENDED FACTORY SET CAMBER
5. INDICATES BRACED FRAME LOCATION.
6. V.I.F. INDICATES DIMENSIONS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONCTRUCTION.

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SCALE
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ROOF FRAMING PLAN

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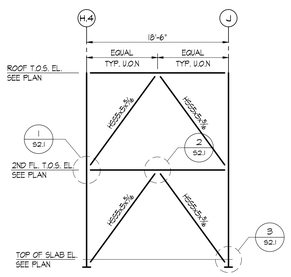
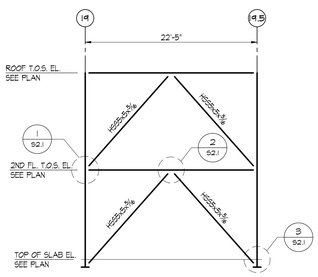
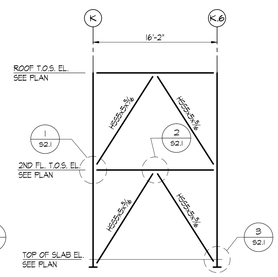
S.1.3



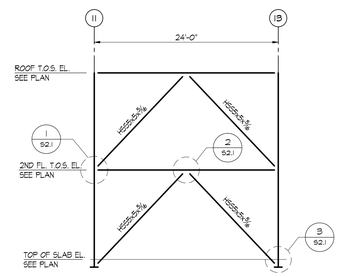
BRACE 1
GRID H



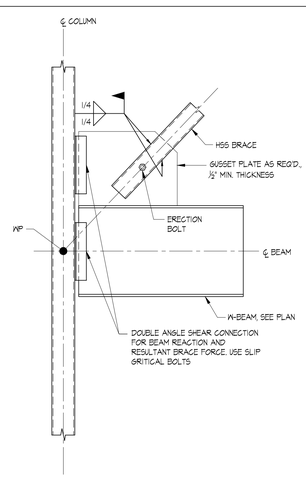
BRACE 2
GRID J



BRACE 3
GRID 11



BRACE 4
GRID K



N.T.S.

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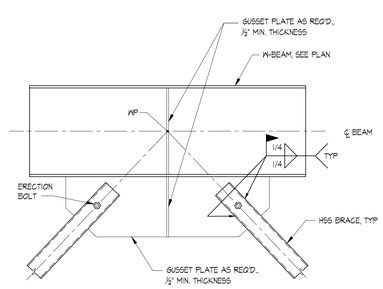

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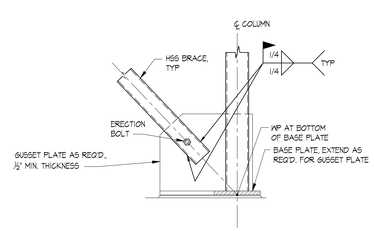

N.T.S.

3

BRACED FRAME ELEVATIONS

1/8" = 1'-0"

NOTES:

1. ELEVATIONS ARE SCHEMATIC ONLY AND INTENDED TO SHOW BENT CONFIGURATION, SIZE AND BRACE FORCE. FABRICATOR IS RESPONSIBLE FOR CONNECTION DESIGN
2. DESIGN DIAGONAL MEMBER CONNECTIONS FOR AXIAL DESIGN FORCE (TENSION OR COMPRESSION) SHOWN BELOW EACH MEMBER SIZE.
3. BOLTED CONNECTIONS SHALL BE DESIGNED AS SLIP-CRITICAL CONNECTIONS.
4. DO NOT WELD DIAGONAL BRACE MEMBERS IN PLACE UNTIL FLOOR SLABS AND ROOFING ARE IN PLACE.
5. SEE PLANS FOR COLUMN SIZES AND BEAM SIZES.

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BRACING
ELEVATIONS AND
DETAILS

TBA PROJECT # 1258

S-2.1

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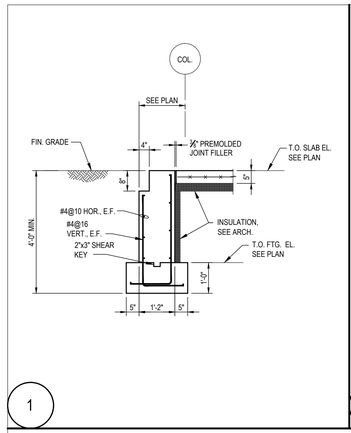

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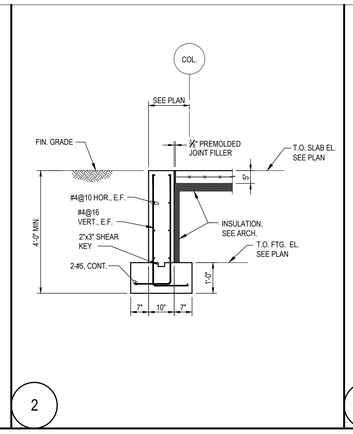

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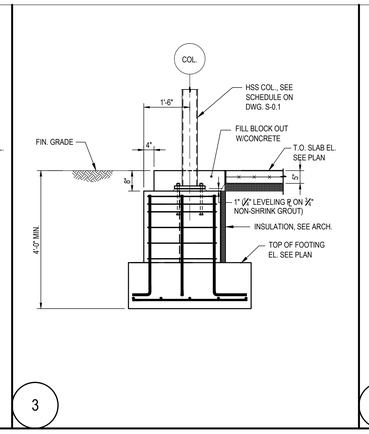

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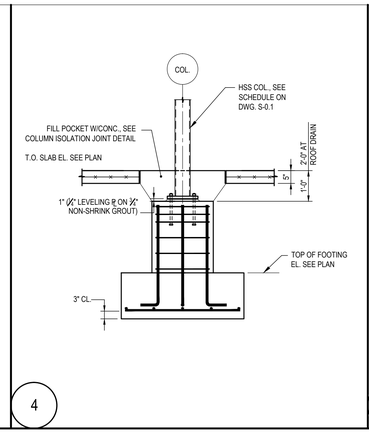

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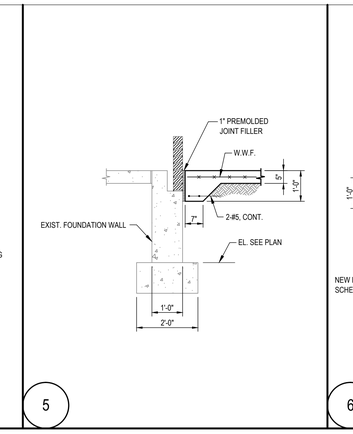

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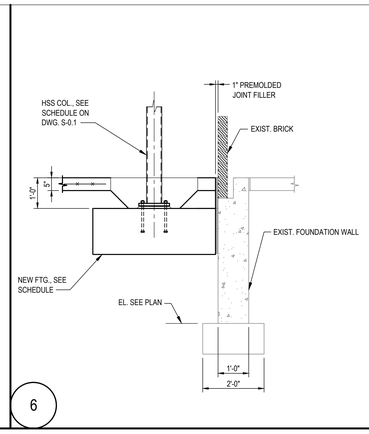

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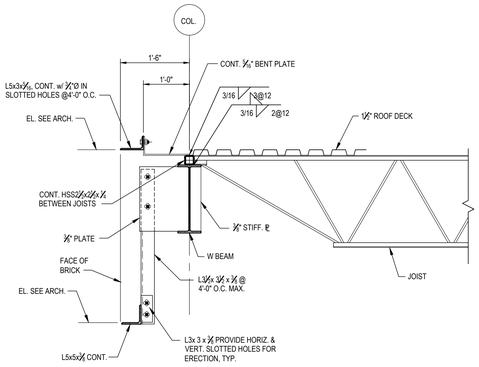

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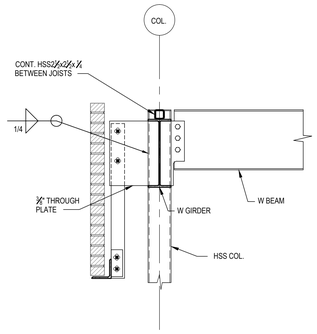

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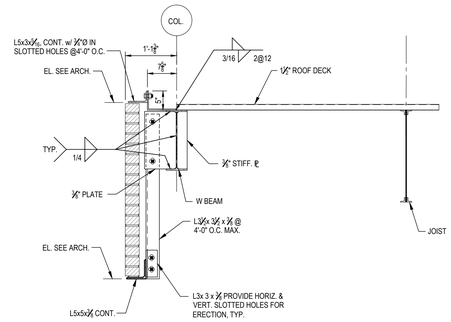

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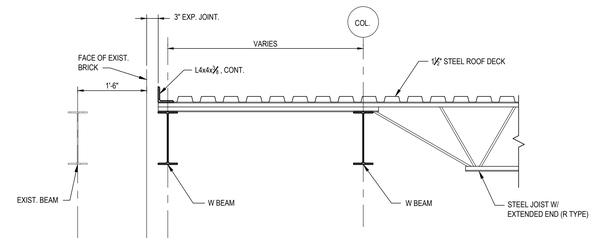

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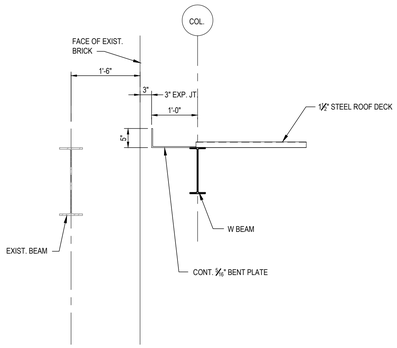

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SECTIONS

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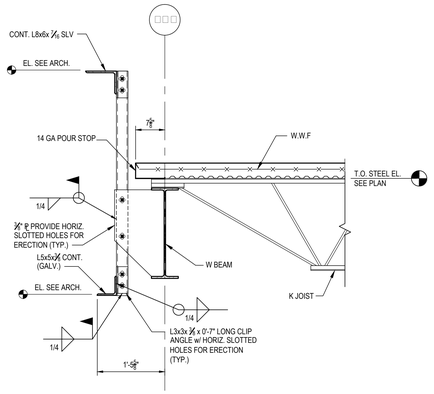

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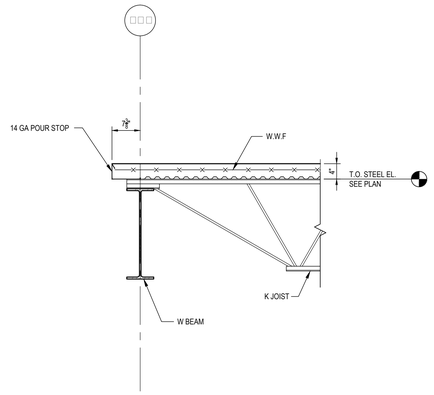

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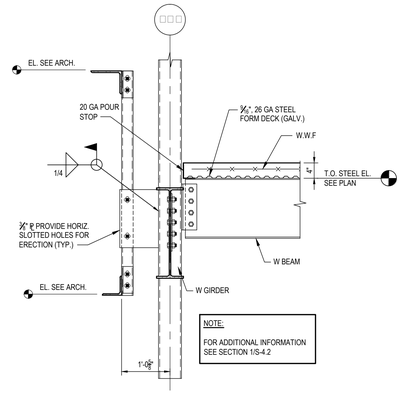
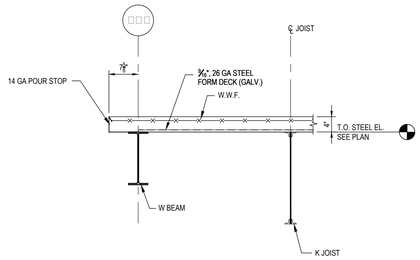


NOTE:

FOR ADDITIONAL INFORMATION
SEE SECTION 1/S-4.2

3



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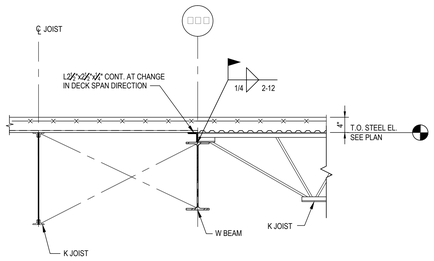

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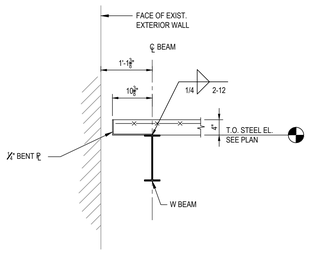

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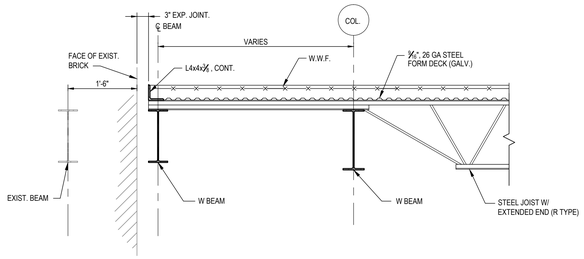

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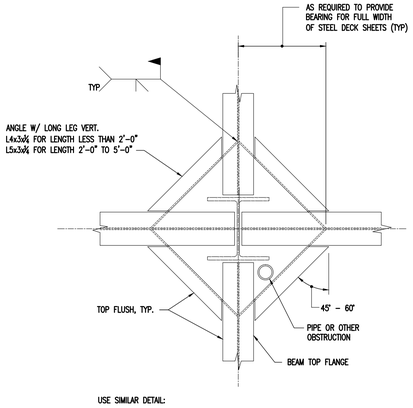
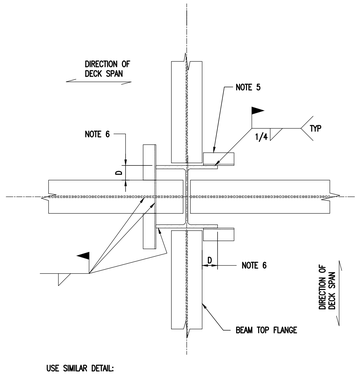


USE SIMILAR DETAIL:

1. AT BEAM TO BEAM MOMENT CONNECTION.
2. WHERE PIPE SLEEVES OCCUR NEXT TO COLUMN.
3. WHERE COLUMN BASE PLATE OCCURS ON TOP FLANGE OF STEEL BEAM.
4. AT ALL OTHER CONDITIONS WHERE DECK SUPPORT IS INTERUPTED FOR A DISTANCE GREATER THAN 6"

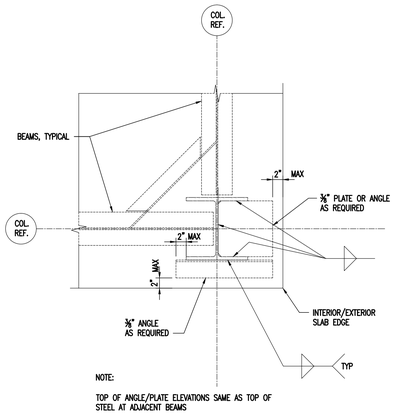
TYPICAL STEEL DECK SUPPORT AT
INTERIOR COLUMN



USE SIMILAR DETAIL:

1. AT BEAM TO BEAM MOMENT CONNECTION.
2. WHERE COLUMN BASE PLATE OCCURS ON TOP FLANGE OF STEEL BEAM.
3. AT ALL OTHER CONDITIONS WHERE DECK SUPPORT IS INTERUPTED FOR A DISTANCE GREATER THAN 6"
4. WHERE PIPE SLEEVES OCCUR NEXT TO COLUMN
5. DECK SUPPORT ANGLES TO BE L2½ x 2½ x ¼ TYPICAL
6. WHERE D IS 6" OR LESS DECK SUPPORT ANGLES ARE NOT REQUIRED.

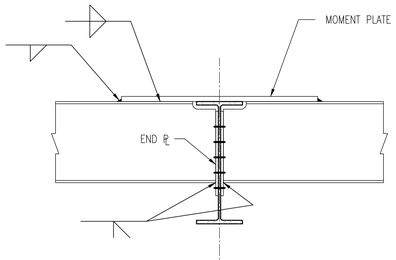
TYPICAL STEEL DECK SUPPORT AT
INTERIOR COLUMN



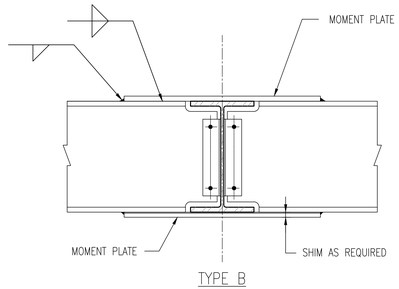
NOTE:

TOP OF ANGLE/PLATE ELEVATIONS SAME AS TOP OF
STEEL AT ADJACENT BEAMS

TYPICAL COMPOSITE METAL DECK SLAB
REINF AT CORNER COLUMN



TYPE A



TYPE B

NOTES:

1. SHEAR CONNECTION SHALL BE DESIGNED FOR THE BEAM END REACTIONS.
2. DESIGN MOMENT PLATES FOR THE FULL MOMENT CAPACITY OF THE BEAM UNLESS NOTED OTHERWISE

BEAM TO BEAM MOMENT CONECTION

9

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S-4.2

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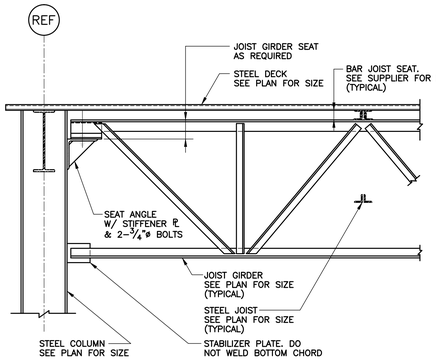
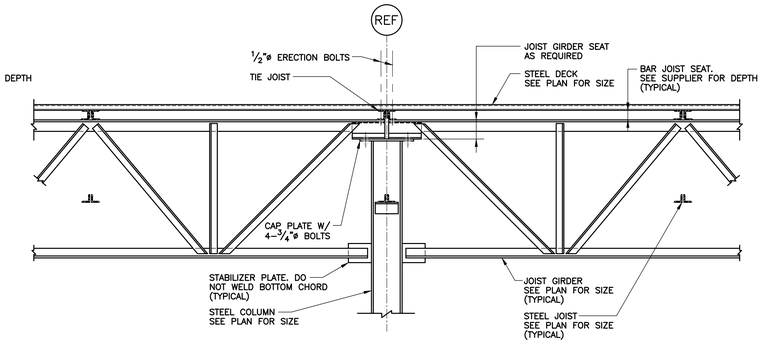


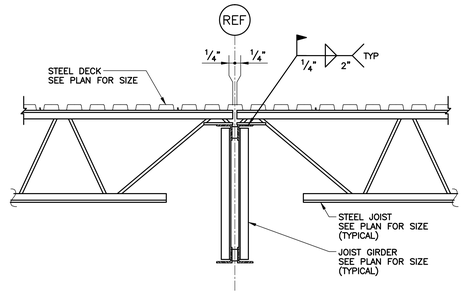
ROOF JOIST GIRDER @ EXTERIOR COLUMN CONNECTION DETAIL

NO SCALE



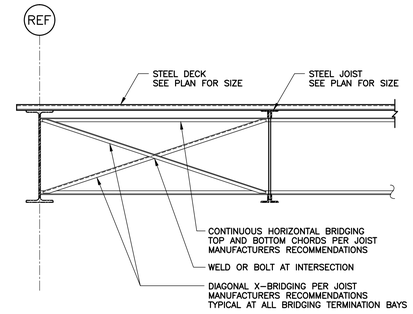
ROOF JOIST GIRDER @ INTERIOR COLUMN CONECTION DETAIL

NO SCALE



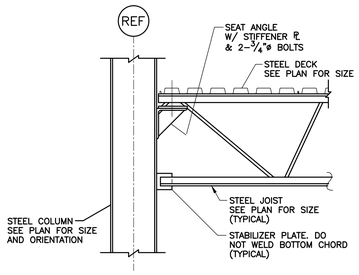
TYPICAL BAR JOIST TO JOIST GIRDER DETAIL

NO SCALE



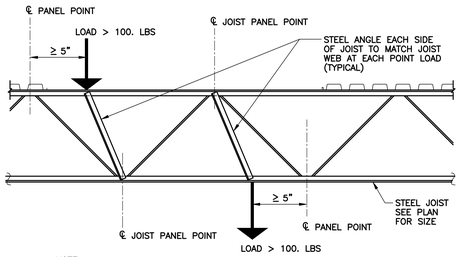
TYPICAL X-BRIDGING DETAIL

NO SCALE



TYPICAL TIE JOIST BEARING AT COLUMN DETAIL

NO SCALE

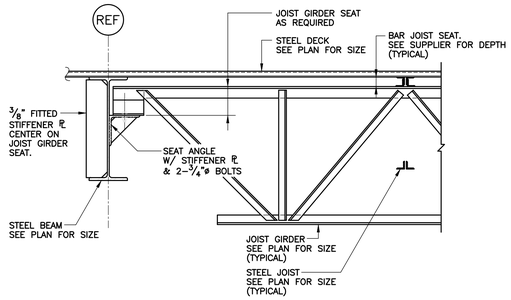


NOTE:

1. THE TRADE CONTRACTOR REQUIRING SUPPORT FOR THE HUNG OR SUPERIMPOSED LOAD SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE REQUIRED ANGLES AT THE DIRECTION OF THE GENERAL CONTRACTOR.

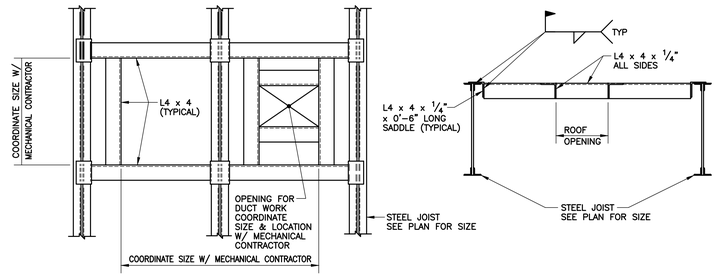
TYPICAL BAR JOIST REINFORCEMENT DETAIL

SCALE: NONE



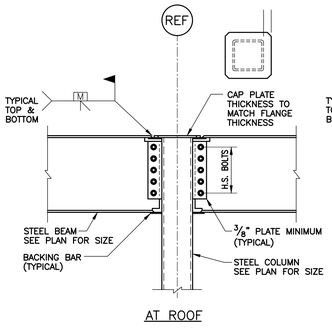
ROOF JOIST GIRDER TO STEEL BEAM DETAIL

NO SCALE

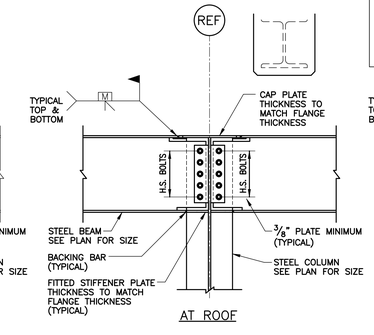


TYPICAL ROOF PENETRATION FRAMING DETAIL

SCALE: NONE

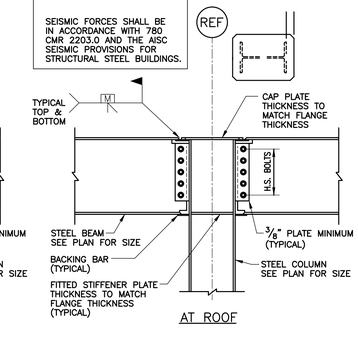


AT ROOF



AT ROOF

SEISMIC FORCES SHALL BE IN ACCORDANCE WITH 780 CMR 2203.0 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.



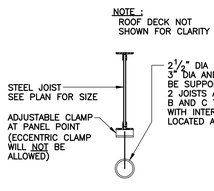
AT ROOF

TYPCAL MOMENT CONNECTION DETAILS

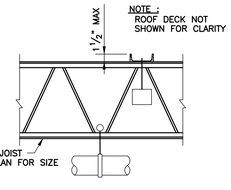
NO SCALE

NOTES:

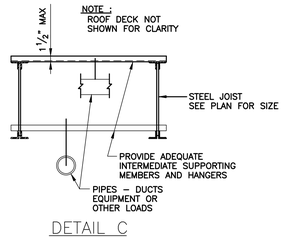
1. REMOVE BACKER BARS AT ALL BOTTOM FLANGE WELDS MADE IN THE DOWN HAND POSITION, THE ROOT WELD SHALL BE BACK GOUGED AND RE-WELDED.
2. A REINFORCING FILLET WELD SHALL BE ADDED AT THE TOP OF TOP FLANGE FULL PENETRATION WELDS.
3. A REINFORCING FILLET WELD SHALL BE ADDED AT THE TOP AND BOTTOM OF BOTTOM FLANGE FUL PENETRATION WELDS.



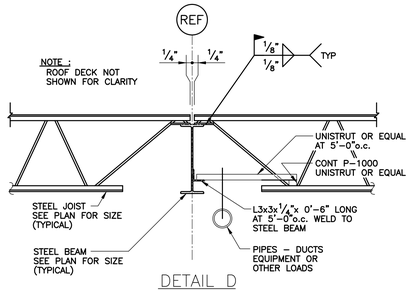
DETAIL A



DETAIL B



DETAIL C



DETAIL D

NOTES :

1.) WHERE POSSIBLE ALL HANGERS SHALL BE SUSPENDED FROM WIDE FLANGE BEAMS.

2.) PIPES, DUCTS, FIXTURES, ETC. SHALL NOT BE HUNG FROM STEEL DECK OR BRIDGING ANGLES.

3.) THE SUM OF ALL BUILDING TRADES HANGER LOADS SHALL NOT EXCEED 250 POUNDS PER JOIST. WHEN THIS MAXIMUM IS EXCEEDED A DETAIL OF PROPOSED METHOD OF HANGING SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

4.) HANGERS AND SUPPORTING MEMBERS SHALL BE LOCATED AT PANEL POINTS OF JOISTS.

5.) PIPING WITH A 4" DIAMETER AND LARGER RUNNING PERPENDICULAR TO JOISTS SHALL BE SUPPORTED FROM EVERY JOIST.

6.) CONTRACTOR SHALL COORDINATE WITH ALL TRADES CONCERNED.

7.) USE THESE TYPICAL DETAILS WHERE APPLICABLE, UNLESS OTHERWISE SHOWN. SEE PLAN DRAWINGS FOR SIZE OF MEMBERS.

TYPICAL JOIST LOADING METHOD DETAIL

NO SCALE

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TYPICAL JOIST DETAILS

TBA PROJECT # 1258

S-4.3

BID DOCUMENTS

MECHANICAL LEGEND

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
AWT	AVERAGE WATER TEMPERATURE
BTUH	BRITISH THERMAL UNITS PER HOUR
CAF	COMBUSTION AIR FAN
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CHW	CHILLED WATER
CMU	CONCRETE MASONRY UNIT
CW	COLD WATER
DDC	DIRECT DIGITAL CONTROL
DHW	DOMESTIC HOT WATER
DT	DELTA T
DU	DWELLING UNIT
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EX	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FC	FAN COIL
FD	FLOOR DRAIN
FPC	FIRE PROTECTION CONTRACTOR
FPI	FINS PER INCH
FT	FEET
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
IFP	INTELLIGENT FIELD PANEL
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAU	MAKEUP AIR UNIT
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NEZV	NON-ELECTRIC ZONE VALVE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OBD	OPPOSED BLADE DAMPER
PC	PLUMBING CONTRACTOR
PROVIDE	SUPPLY AND INSTALL
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RC	ROOFING CONTRACTOR
RCP	REFLECTED CEILING PLAN
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SM	GALVANIZED SHEET METAL
SS	STAINLESS STEEL
T&P	TEMPERATURE & PRESSURE
TV	TEMPERING VALVE
TYP	TYPICAL
UH	UNIT HEATER
UOS	UNLESS OTHERWISE SPECIFIED
UV	UNIT VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE

CONNECT TO EXISTING
AQUASTAT
THERMOSTAT
TEMPERATURE SENSOR
HIGH LIMIT SENSOR
HUMIDISTAT
PRESSURE SENSOR
CARBON MONOXIDE SENSOR
CARBON DIOXIDE SENSOR
FLOW METER
OCCUPANCY SENSOR
UNDERCUT DOOR
VOLTAGE TRANSFORMER (120V/24V)
NEW WORK (BOLD LINE)
EQUIPMENT TAG (SEE SCHEDULE) DOES NOT REQUIRE ELECTRICAL
EQUIPMENT TAG (SEE SCHEDULE) REQUIRES ELECTRICAL POWER
A-CFM DIFFUSER TAG
12x12 SIZE SHOWN IS INTERIOR CLEAR DIMENSION. WHERE LINER IS CALLED FOR, INCREASE TO ACCOMMODATE.
10"ø FLEXDUCT, 4 FT MAX LENGTH
SUPPLY / RETURN/ EXHAUST
DUCT DOWN
DUCT UP
ROOF MOUNTED EQUIPMENT
SIDEWALL SUPPLY DIFFUSER
SIDEWALL RETURN GRILLE
CEILING SUPPLY DIFFUSER (4-WAY)
RETURN/EXHAUST GRILLE
VOLUME DAMPER

SPLITTER DAMPER
FIRE DAMPER
COMBINATION SMOKE & FIRE DAMPER
AUTOMATIC AIR FLOW REGULATOR
CAPE BACKDRAFT DAMPER
MOTORIZED DAMPER
ELECTRIC HEATER
EXTERIOR LOUVER & PLENUM
AIR SEPARATOR
BASE MOUNTED PUMP
CIRCULATOR/PUMP
UNIT VENTILATOR
UNIT HEATER
HYDRONIC COIL
FAN
BARE FINTUBE ELEMENT
RADIATOR
BASEBOARD
CAST IRON RADIATOR
HCS COMBINATION HOT & CHILLED WATER SUPPLY PIPING
HCR COMBINATION HOT & CHILLED WATER RETURN PIPING
HWS HOT WATER SUPPLY PIPING
HWR HOT WATER RETURN PIPING
CHWS CHILLED WATER SUPPLY PIPING
CHWR CHILLED WATER RETURN PIPING
CDS CONDENSOR WATER SUPPLY PIPING
CDR CONDENSOR WATER RETURN PIPING
RL REFRIGERANT LIQUID LINE
RS REFRIGERANT SUCTION LINE
C CONDENSATE DRAIN PIPING
PIPE ANCHOR
PIPE GUIDE

FLEX CONNECTOR
DROP, PIPE DOWN
RISER, PIPE UP
AIR VENT W/ ISOLATION
COIN VENT
PRESSURE GAUGE
THERMOMETER AND WELL
TEMP AND/OR PRESSURE RELIEF VALVE
VACUUM BREAKER
HOSE BIBB W/ BRASS CAP & CHAIN
BALL VALVE WITH HOSE THREAD, BRASS CAP AND CHAIN
STRAINER WITH BALL VALVE W/ 3/4" HOSE CONNECTION, BRASS CAP AND CHAIN
PP PeTe's PLUG 3" LONG
PRESSURE REDUCING VALVE
FLANGE
UNION
CHECK VALVE (SPRING)
BALL VALVE
BALANCING VALVE
PRESSURE DIFFERENTIAL BYPASS
MOTORIZED 4-WAY VALVE
MOTORIZED 3-WAY VALVE
MOTORIZED 2-WAY VALVE
COMBINATION VALVE
NEZV NON-ELECTRIC ZONE VALVE
REVISION TRIANGLE

GENERAL MECHANICAL NOTES:

1. GENERAL CONDITIONS & SPECIFICATIONS: THE GENERAL CONDITIONS, AND SPECIFICATIONS ARE PART OF THIS WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND BE FAMILIAR WITH THESE CONDITIONS & SPECIFICATIONS.
2. CODES AND ORDINANCES: INSTALLATION OF THE SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL MECHANICAL CODE, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.
3. REQUIREMENTS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES AND CERTIFICATES.
4. DESIGN: EQUIPMENT AND ACCESSORIES NOT SPECIFICALLY DESCRIBED OR IDENTIFIED BY MANUFACTURER'S CATALOG NUMBERS SHALL BE DESIGNED IN CONFORMITY WITH ASME, IEEE, S.M.A.C.N.A. DESIGN MANUAL OR OTHER APPLICABLE TECHNICAL STANDARDS, SUITABLE FOR MAXIMUM REQUIRED WORKING PRESSURE AND SHALL HAVE NEAT AND FINISHED APPEARANCE.
5. INSTALLATION: ERECT EQUIPMENT IN NEAT AND WORKMANLIKE MANNER; INSTALL SO THAT CONNECTING AND DISCONNECTING OF PIPES, EQUIPMENT AND ACCESSORIES CAN BE MADE READILY AND SO THAT ALL PARTS ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.
6. BEST PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY FITTING, CONNECTION, OR APPLIANCE. THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
7. EQUIPMENT LOCATION: THE M.C. SHALL VERIFY THE LOCATIONS AND MOUNTING HEIGHTS OF ALL EQUIPMENT AND MATERIALS, AND THE EXACT ROUTING OF ALL PIPES, WITH THE OWNER'S REPRESENTATIVE IN THE FIELD, PRIOR TO COMMENCING ANY WORK. ANY CONFLICTS WITH LOCATIONS, OR PROBLEMS ENCOUNTERED WITH ROUTING, SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
8. MATERIALS: ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE NEW WITHOUT IMPERFECTIONS AND SHALL BE DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL. WHEREVER POSSIBLE, ALL TRIM, ACCESSORIES AND PARTS SHALL BE OF THE SAME MANUFACTURER AS THE RELATED EQUIPMENT AND FIXTURES.
9. DUCTWORK: ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH S.M.A.C.N.A. STANDARDS. (2005 EDITION)
10. PLUMBING: ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH COMMONWEALTH OF MASSACHUSETTS FUEL GAS AND PLUMBING CODE, 248 CMR & NFPA 54.
11. ELECTRICAL: ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL REQUIREMENTS. COORDINATE ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT WITH E.C. BEFORE ORDERING EQUIPMENT.
12. CONTROLS: THIS CONTRACTOR SHALL PROVIDE CONTROLS AS SPECIFIED TO ACHIEVE SEQUENCE OF OPERATION.
13. OBJECTIONABLE NOISE AND VIBRATIONS: MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION, AS DETERMINED BY THE ENGINEER. CONTRACTOR SHALL SUPPLY ALL NECESSARY HARDWARE FOR NOISE AND VIBRATION ISOLATION.
14. GENERAL COORDINATION: EXAMINE ALL DRAWINGS AND OTHER SECTIONS OF THE SPECIFICATIONS FOR REQUIREMENTS WHICH AFFECT THE WORK OF THIS SECTION. COORDINATE WORK WITH THAT OF OTHER TRADES AFFECTING, OR AFFECTED BY, WORK OF THIS SECTION. COOPERATE WITH OTHER TRADES TO ENSURE THE STEADY PROGRESS OF THE WORK.
15. PROTECTION OF EQUIPMENT AND MATERIALS: RESPONSIBILITY FOR CARE AND PROTECTION OF ALL MATERIALS AND MECHANICAL WORK RESTS WITH THIS CONTRACTOR AT ALL TIMES UNTIL IT HAS BEEN APPROVED.
16. GUARANTEE: ALL NEW COMPONENTS OF THE INSTALLATION SHALL BE GUARANTEED IN WRITING BY THIS CONTRACTOR TO BE FREE FROM DEFECTS OF MANUFACTURE AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN ACCEPTANCE BY THE ENGINEER. ANY DEFECTS FOUND SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AT THEIR OWN EXPENSE.
17. NOTIFICATION: THE M.C. SHALL NOTIFY THE ENGINEER UPON: (1) COMPLETION OF ALL ROUGH PIPING AND DUCT WORK, BEFORE CLOSURE OF ANY TRENCHES, OPEN WALL CAVITIES OR CHASES. (2) UPON "SUBSTANTIAL COMPLETION" OF ALL SYSTEMS INCLUDING OPERATIONAL SPACE CONDITIONING. AFTER "SUBSTANTIAL COMPLETION", THE ENGINEER WILL PREPARE A PUNCH LIST OF ITEMS TO BE CORRECTED. THE M.C. SHALL CORRECT ANY DEFICIENCIES FOUND PROMPTLY, AT HIS/HER OWN EXPENSE.
18. FINAL COMPLETION: THE WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL THE PUNCH LIST IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND ALL FINAL INSPECTIONS HAVE BEEN COMPLETED.

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SCALE
AS NOTED

SHEET NAME
MECHANICAL LEGEND & NOTES

TBA PROJECT # 1258

M-0.1

SIDEWALL REGISTER SCHEDULE [1]

DWG ID	TYPE	CFM RANGE	SIZE WxH	MAX NC	MANUFACTURER	MODEL NBR	REMARKS
B1-CFM	SIDEWALL	1 – 295	12x6	25	HART & COOLEY	SVH	DOUBLE-DEFLECTION, OPTIONAL SCOOP, ALUMINUM

[1] ALL DIFFUSERS & GRILLES SHALL INCLUDE PAINTABLE FINISH AND OPPOSED BLADE DAMPER.

CEILING DIFFUSER SCHEDULE [1][2]

DWG ID	TYPE	CFM RANGE	SIZE WxH	NECK DIA.	MAX NC	MANUFACTURER	MODEL NBR	REMARKS
A1-CFM	CEILING DIFFUSER	1 – 100	6x6	6ø	25	TITUS	TDC	STEEL, OPPOSED BLADE DAMPER, 4-WAY THROW, WHITE
A2-CFM	CEILING DIFFUSER	100 – 240	8X8	8"ø	25	TITUS	TDC	STEEL, OPPOSED BLADE DAMPER, 4-WAY THROW, WHITE
A3-CFM	CEILING DIFFUSER	241 – 350	12x12	10"ø	25	TITUS	TDC	STEEL, OPPOSED BLADE DAMPER, 4-WAY THROW, WHITE
A4-CFM	CEILING DIFFUSER	351 – 460	12x12	12"ø	25	TITUS	TDC	STEEL, OPPOSED BLADE DAMPER, 4-WAY THROW, WHITE
A5-CFM	CEILING DIFFUSER	461 – 530	15x15	14"ø	25	TITUS	TDC	STEEL, OPPOSED BLADE DAMPER, 4-WAY THROW, WHITE

[1] ALL DIFFUSERS & GRILLES SHALL INCLUDE PAINTABLE FINISH AND OPPOSED BLADE DAMPER.
[2] DIFFUSERS ARE 4-WAY THROW UNLESS NOTED OTHERWISE.

RETURN GRILLE SCHEDULE [1]

DWG ID	TYPE	CFM RANGE	SIZE WxH	MAX NC	MANUFACTURER	MOD. No.	REMARKS
AA1-CFM	RETURN	1000 – 1800	22x22	25	TITUS	50F	1/2" EGGRATE, SURFACE MOUNT FRAME

[1] ALL DIFFUSERS & GRILLES SHALL INCLUDE PAINTABLE FINISH AND OPPOSED BLADE DAMPER.

FAN COIL UNIT SCHEDULE (FCU –) [1][2]

DWG ID	SERVICE	MANUFACTURER	MODEL NO.	CFM	ESP	HP	COOLING TOTAL MBH	SENSIBLE MBH	GPM	HEATING MBH	GPM	WEIGHT (LBs)	ELECT DATA	REMARKS
FCU-1	CLASSROOMS	CARRIER	42BHE-06	600	0.5	1/4	NONE	–	–	24	2	300	120V/1ø/60Hz	2-PIPE, 2-ROW HEATING
FCU-2	CLASSROOMS	CARRIER	42BHE-06	600	0.5	1/4	NONE	–	–	24	2	300	120V/1ø/60Hz	2-PIPE, 2-ROW HEATING
FCU-3	CLASSROOMS	CARRIER	42BHE-06	400	0.5	1/6	NONE	–	–	16	2	300	120V/1ø/60Hz	2-PIPE, 1-ROW HEATING
FCU-4	CLASSROOMS	CARRIER	42BHE-06	600	0.5	1/4	NONE	–	–	24	2	300	120V/1ø/60Hz	2-PIPE, 2-ROW HEATING
FCU-5	CLASSROOMS	CARRIER	42BHE-06	600	0.5	1/4	NONE	–	–	24	2	300	120V/1ø/60Hz	2-PIPE, 2-ROW HEATING
FCU-6	CLASSROOMS	CARRIER	42BHE-06	400	0.5	1/6	NONE	–	–	16	2	300	120V/1ø/60Hz	2-PIPE, 1-ROW HEATING

[1] CONFIRM ELECTRICAL CHARACTERISTICS WITH EC PRIOR TO ORDERING EQUIPMENT.
[2] 2" MERV 8 FILTER

ENERGY RECOVERY UNIT (ERV –) [1][2][3][4][5][6][7][8]

DWG ID	MANUFACTURER	MODEL	COOLING	HEATING	SUPPLY FAN			EXHAUST FAN			ELECTRICAL		REMARKS
					CFM	E.S.P. (IN. W.C.)	HP	CFM	E.S.P. (IN. W.C.)	HP	MCA	V/ø/Hz	
ERV-1	GREENHECK	ERVE-35-30L	NONE	NONE	3,000	0.75	3.0	3,000	0.75	2.0	22.2	208/3/60	WEIGHT: 1,300 LBS, EFFECTIVENESS 75% WINTER

[1] COORDINATE ELECTRICAL CHARACTERISTICS WITH EC PRIOR TO ORDERING UNITS.
[2] MC TO SUPPLY SPRING-TYPE VIBRATION ISOLATION ROOF CURBS FOR INSTALLATION BY ROOFER.
[3] PROVIDE 2" MERV 8 SUPPLY & EXHAUST FILTERS.
[4] PROVIDE MODULATING WHEEL FROST CONTROL.
[5] CONTROLS: PROVIDE PACKAGED INDEPENDENT CONTROL WITH DDC INTERFACE.
[6] EC TO SUPPLY AND WIRE SMOKE DETECTOR TO FIRE ALARM. MC TO INSTALL ON THE RETURN DUCTWORK AND PROVIDE ERV SHUTDOWN WIRING.
[7] PROVIDE VFD CONTROL OF FAN
[8] LOW LEAKAGE DAMPERS

FIN TUBE RADIATION SCHEDULE

– TYPE
X'-X" LENGTH OF ACTIVE FIN-TUBE. [1][2][4]

DWG ID	MANUFACTURER	MODEL NBR	TUBE/ELEMENT	ENCLOSURE	REMARKS
BB-1	SLANT/FIN	HD-1400	1" COPPER TUBE H-4 ELEMENT, 3" x 2-1/2" FINS, 48 FINS/FOOT	TWO TIER [3] 14"H SLOPE TOP 16 GA	920 BTU/Hr-FT @ 170° AWT & 4 GPM (800 BTU/Hr-FT LESS HEATING EFFECT FACTOR)

[1] PROVIDE LENGTH OF ACTIVE FINNED TUBE AS INDICATED ON PLANS
[2] PROVIDE COIN VENTS FOR EACH SECTION OF BASEBOARD.
[3] PROVIDE ADDITIONAL LENGTH OF ENCLOSURE TO CONCEAL VALVES, FITTINGS, ETC.
[4] PROVIDE PAINTED FACTORY FINISH

VARIABLE AIR VOLUME BOX SCHEDULE (VAV –) [1]

DWG ID	JOHNSON CONTROLS MODEL NUMBER	MAX PRIMARY CFM	MIN PRIMARY CFM	TOTAL SPG IN WG	EAT °F	LAT °F	EWT	LWT	FLOW RATE GPM	COIL CAP MBH	ROWS
VAV-1	TSS-WC-06	300	90	–	55	82	180	144	0.5	8	1

[1] PROVIDE DDC CONTROL.

FAN-POWERED VAV BOX SCHEDULE (FPB –) [1][2][3]

DWG ID	SERVICE	MANUFACTURER	MODEL NO.	CFM	ESP	HP	HEATING MBH	GPM	WEIGHT (LBs)	ELECT DATA	REMARKS
FPB-1	SPANISH	JOHNSON	TCS-WC-1221	1400	0.5	1/4	44	4	–	120V/1ø/60Hz	2-PIPE, 2-ROW HEATING, ECM MOTOR
FPB-2	FRENCH	JOHNSON	TCS-WC-1221	1800	0.5	3/4	44	4	–	120V/1ø/60Hz	2-PIPE, 2-ROW HEATING, ECM MOTOR

[1] CONFIRM ELECTRICAL CHARACTERISTICS WITH EC PRIOR TO ORDERING EQUIPMENT.
[2] PROVIDE ACCESSORY FILTERS
[3] DDC CONTRACTOR TO SUPPLY CONTROLS TO VAV MANUFACTURER FOR INSTALLATION (IE CONSIGNMENT DDC)

ALTERNATE NO. 1: VARIABLE AIR VOLUME BOX SCHEDULE (VAV –) [1]

DWG ID	JOHNSON CONTROLS MODEL NUMBER	MAX PRIMARY CFM	MIN PRIMARY CFM	TOTAL SPG IN WG	EAT °F	LAT °F	EWT	LWT	FLOW RATE GPM	COIL CAP MBH	ROWS
VAV-2-1	TSS-WC-08	580	145	–	55	85	180	130	1.0	14	1
VAV-2-2	TSS-WC-08	420	105	–	55	85	180	130	1.0	12	1
VAV-2-3	TSS-WC-06	310	75	–	55	85	180	130	1.0	10	1
VAV-2-4	TSS-WC-08	455	115	–	55	85	180	130	1.0	14	1
VAV-2-5	TSS-WC-08	300	75	–	55	85	180	130	1.0	6	1
VAV-2-6	TSS-WC-06	220	55	–	55	85	180	130	1.0	6	1

[1] DDC CONTRACTOR TO SUPPLY CONTROLS TO VAV MANUFACTURER FOR INSTALLATION (IE CONSIGNMENT DDC)

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SHEET NAME
MECHANICAL SCHEDULES

TBA PROJECT # 1258

M-0.2

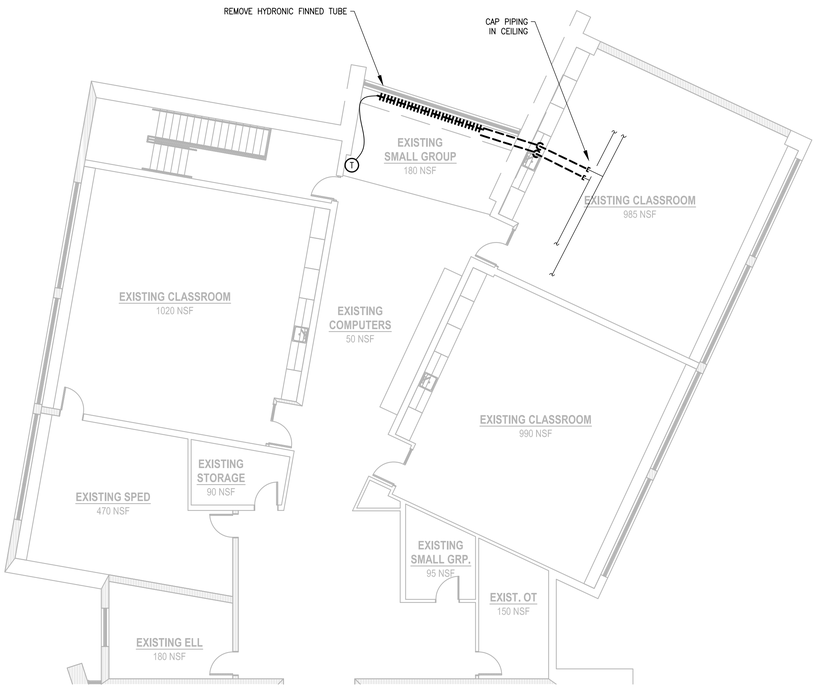
DEMOLITION NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
3. DEMOLISH AND LEGALLY DISPOSE OF ALL EXISTING UNUSED MECHANICAL, PLUMBING, ELECTRICAL PIPING, DEVICES, SUPPORTS, AND MISCELLANEOUS EQUIPMENT. COORDINATE WITH OWNER.
4. EC AND PC TO CUT, CAP AND MAKE SAFE ALL POTABLE PIPING, AND ELECTRICAL CONDUIT & WIRING NECESSARY FOR REMOVAL BY THIS CONTRACTOR.
5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURE & EQUIPMENT TO REMAIN AND PATCHING ALL PENETRATIONS & HOLES IN FLOORS, WALLS, AND CEILINGS DUE TO DEMOLITION. MATCH SURROUNDING FINISH OR REPLACE.
6. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COORDINATING W/ THE PC, EC & OWNER TO DETERMINE EXACT QUANTITIES AND LOCATIONS PRIOR TO BIDDING.

DEMOLITION LEGEND

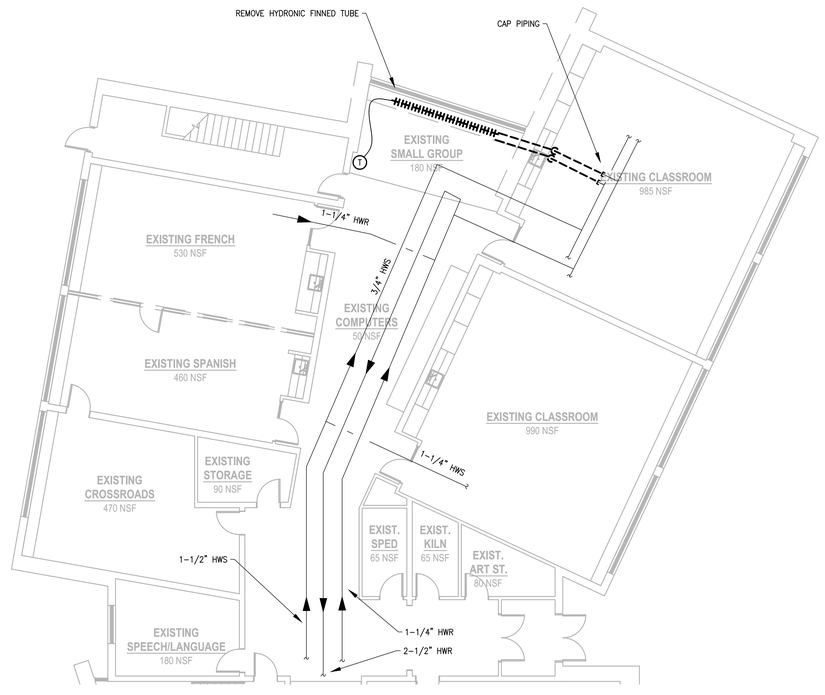
- - - - - - DEMOLISH & DISPOSE

———— EXISTING TO REMAIN



1 MX-1.1 EXISTING SECOND FLOOR MECHANICAL PLAN AT ADDITION

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



2 MX-1.1 EXISTING FIRST FLOOR MECHANICAL PLAN AT ADDITION

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

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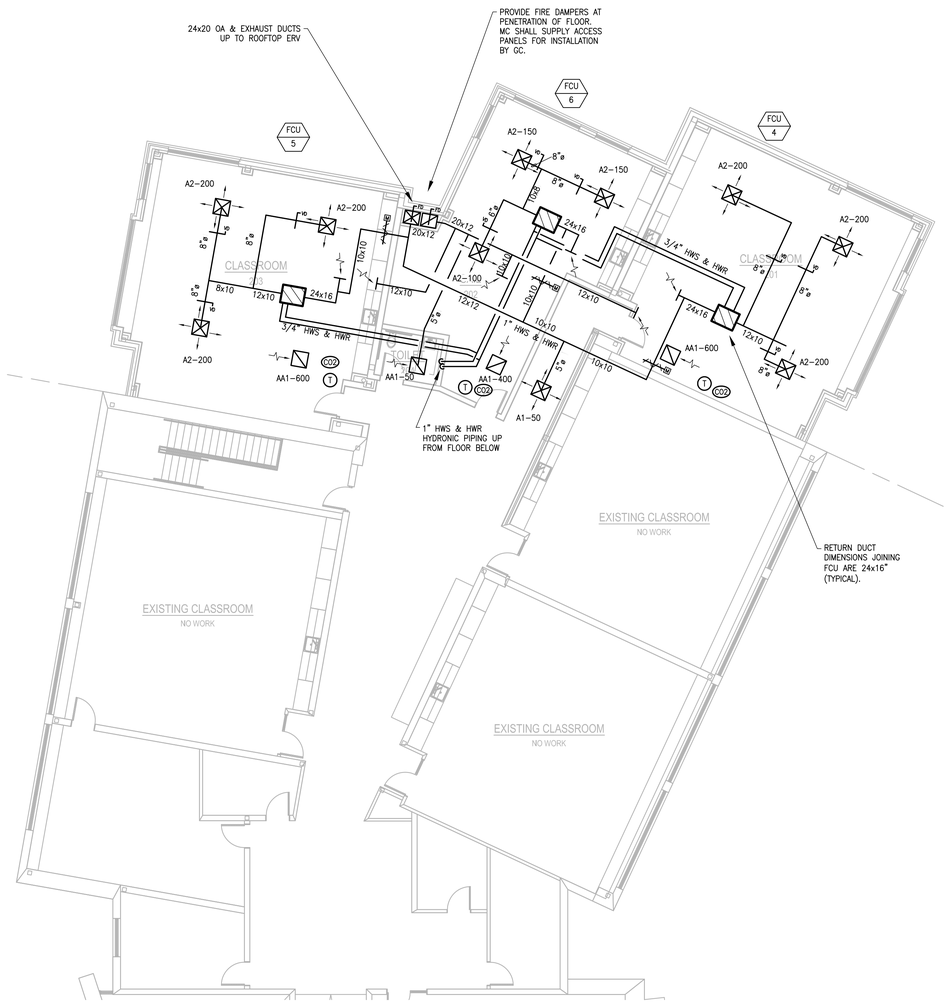
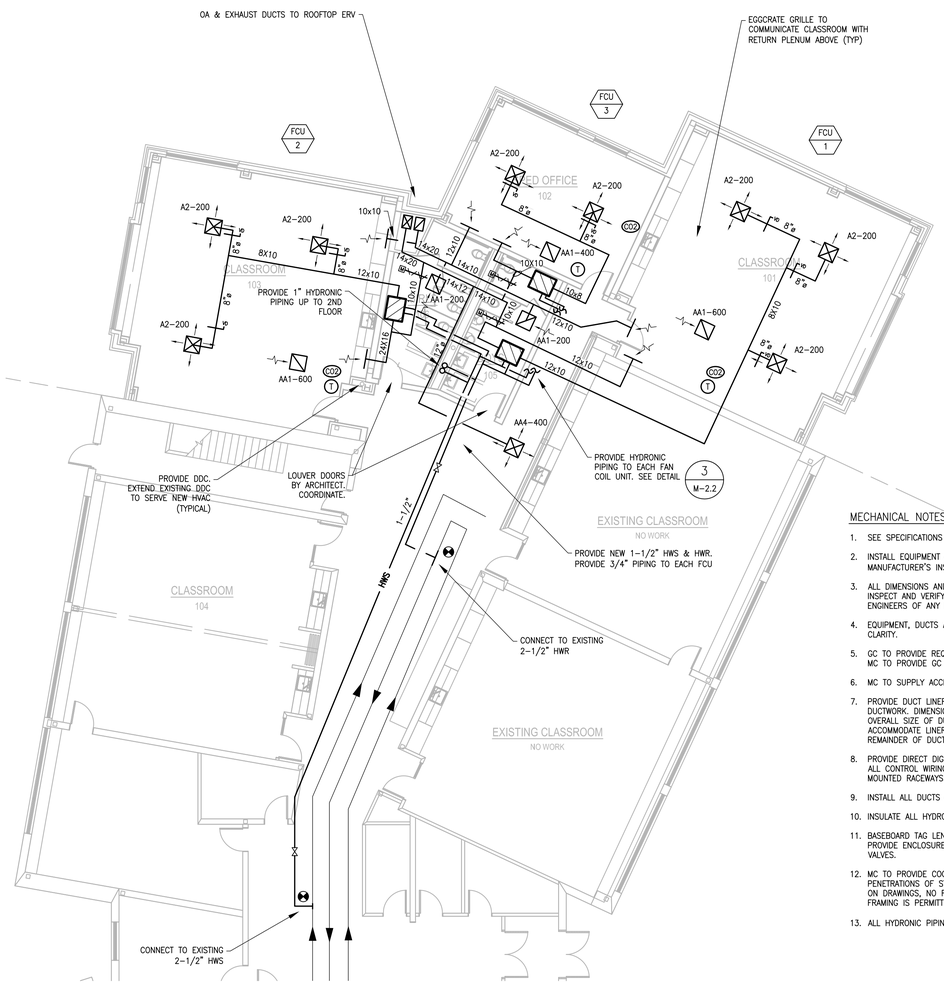
EXISTING MECHANICAL PLANS AT ADDITION

TBA PROJECT # 1258

MX-1.0



1 M-1.0 SECOND FLOOR MECHANICAL PLAN AT ADDITION
SCALE: 1/8" = 1'-0"



2 M-1.0 FIRST FLOOR MECHANICAL PLAN AT ADDITION
SCALE: 1/8" = 1'-0"

MECHANICAL NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. INSTALL EQUIPMENT AND SYSTEMS PER CODE AND PER MANUFACTURER'S INSTRUCTIONS.
3. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELDS AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
4. EQUIPMENT, DUCTS AND PIPING MAY BE SHOWN DISPLACED FOR CLARITY.
5. GC TO PROVIDE REQUIRED FIRESTOPPING AND ACOUSTICAL SEALANT. MC TO PROVIDE GC WITH MARKED UP PLAN SHOWING PENETRATIONS.
6. MC TO SUPPLY ACCESS HATCHES. GC TO INSTALL.
7. PROVIDE DUCT LINER FOR ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. DIMENSIONS INDICATED ARE INSIDE CLEAR DIMENSIONS. OVERALL SIZE OF DUCTWORK WILL NEED TO BE INCREASED TO ACCOMMODATE LINER. PROVIDE EXTERNAL DUCT INSULATION FOR REMAINDER OF DUCT SYSTEM.
8. PROVIDE DIRECT DIGITAL CONTROLS FOR HVAC EQUIPMENT. CONCEAL ALL CONTROL WIRING FOR THERMOSTATS WITHIN WALLS. NO SURFACE MOUNTED RACEWAYS.
9. INSTALL ALL DUCTS AND PIPING ON WARM SIDE OF INSULATION.
10. INSULATE ALL HYDRONIC PIPING NOT WITHIN BASEBOARD ENCLOSURE.
11. BASEBOARD TAG LENGTHS INDICATED ARE ACTIVE FIN TUBE LENGTHS. PROVIDE ENCLOSURE TO CONCEAL ALL ACTIVE FINTUBE, PIPING AND VALVES.
12. MC TO PROVIDE COORDINATION DRAWINGS. ALL REQUIRED PENETRATIONS OF STRUCTURAL FLOOR FRAMING MUST BE IDENTIFIED ON DRAWINGS, NO FIELD MODIFICATIONS OR PENETRATIONS OF FLOOR FRAMING IS PERMITTED.
13. ALL HYDRONIC PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.

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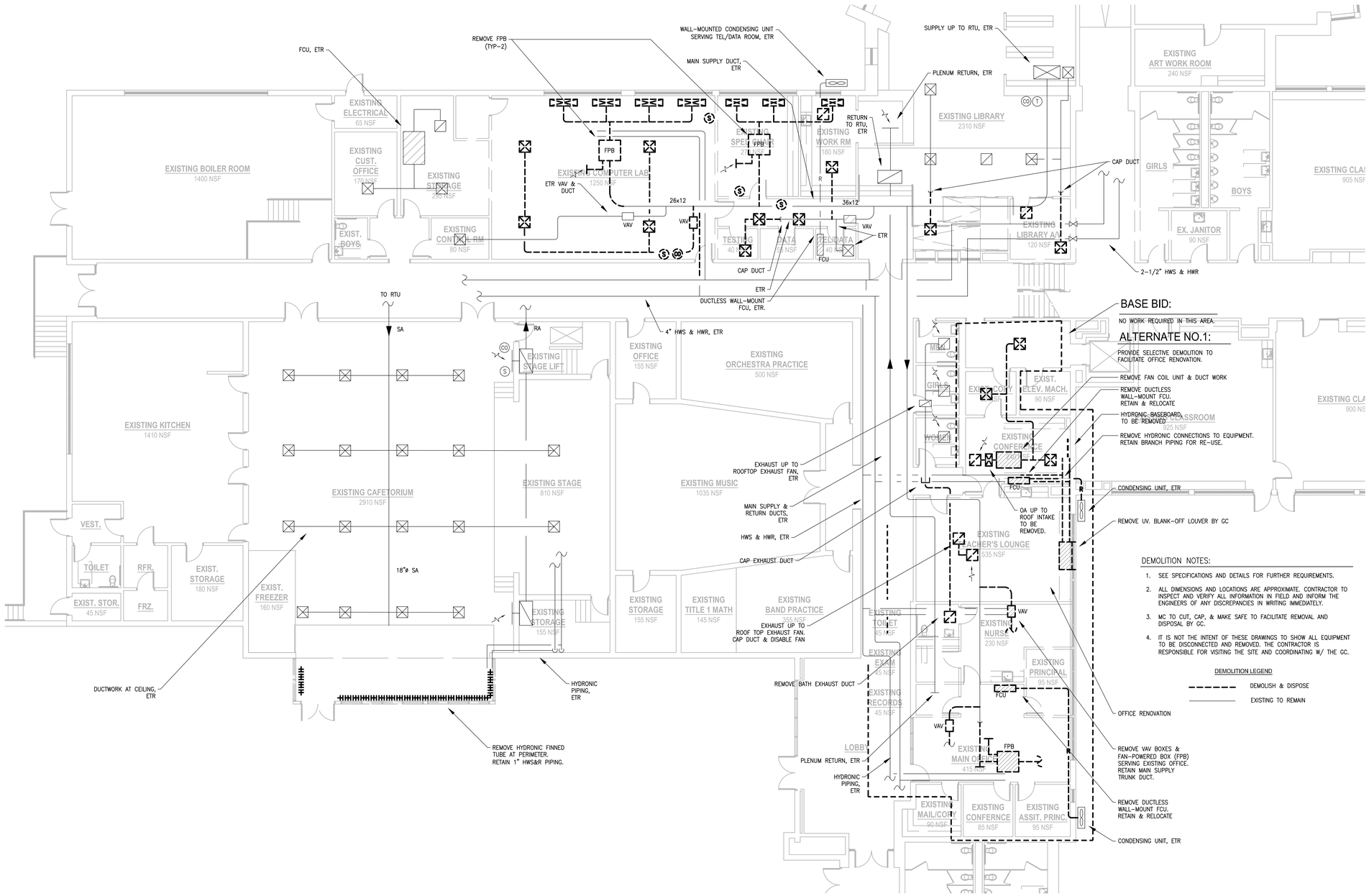
PROPOSED MECHANICAL PLANS AT ADDITION

TBA PROJECT # 1258

M-1.0



BASE BID:

NO WORK REQUIRED IN THIS AREA.

ALTERNATE NO.1:

PROVIDE SELECTIVE DEMOLITION TO FACILITATE OFFICE RENOVATION.

REMOVE FAN COIL UNIT & DUCT WORK

REMOVE DUCTLESS WALL-MOUNT FCU. RETAIN & RELOCATE

HYDRONIC BASEBOARD, TO BE REMOVED

REMOVE HYDRONIC CONNECTIONS TO EQUIPMENT. RETAIN BRANCH PIPING FOR RE-USE.

CONDENSING UNIT, ETR

REMOVE UV. BLANK-OFF LOUVER BY GC

DEMOLITION NOTES:

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3. MC TO CUT, CAP, & MAKE SAFE TO FACILITATE REMOVAL AND DISPOSAL BY GC.
4. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COORDINATING W/ THE GC.

DEMOLITION LEGEND

DEMOLISH & DISPOSE

EXISTING TO REMAIN

1 / MX-1.1 EXISTING FIRST FLOOR PLAN AT ADDITION

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

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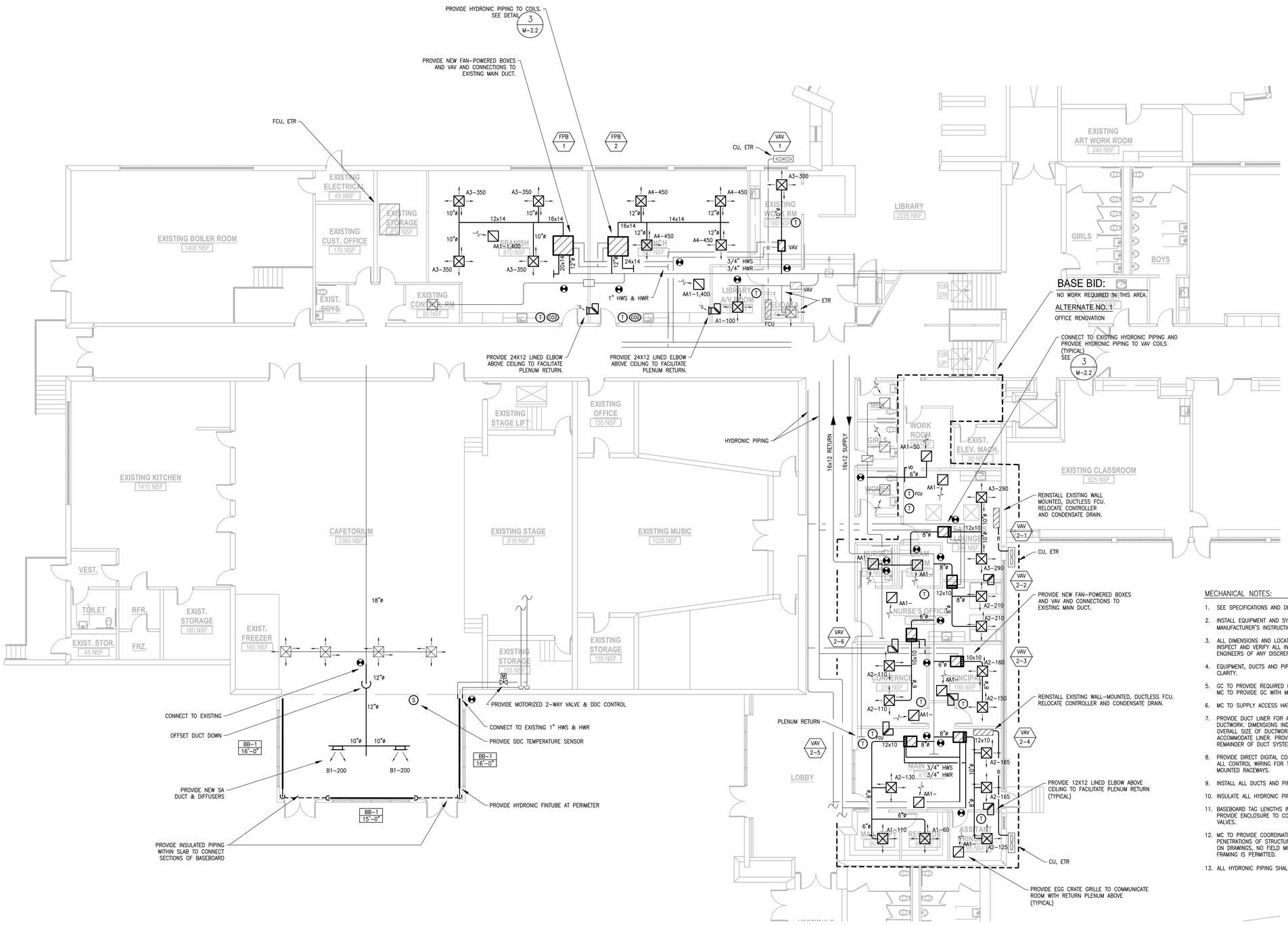
TBA PROJECT # 1258

MX-1.1



1 M-1.1 FIRST FLOOR MECHANICAL PLAN

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

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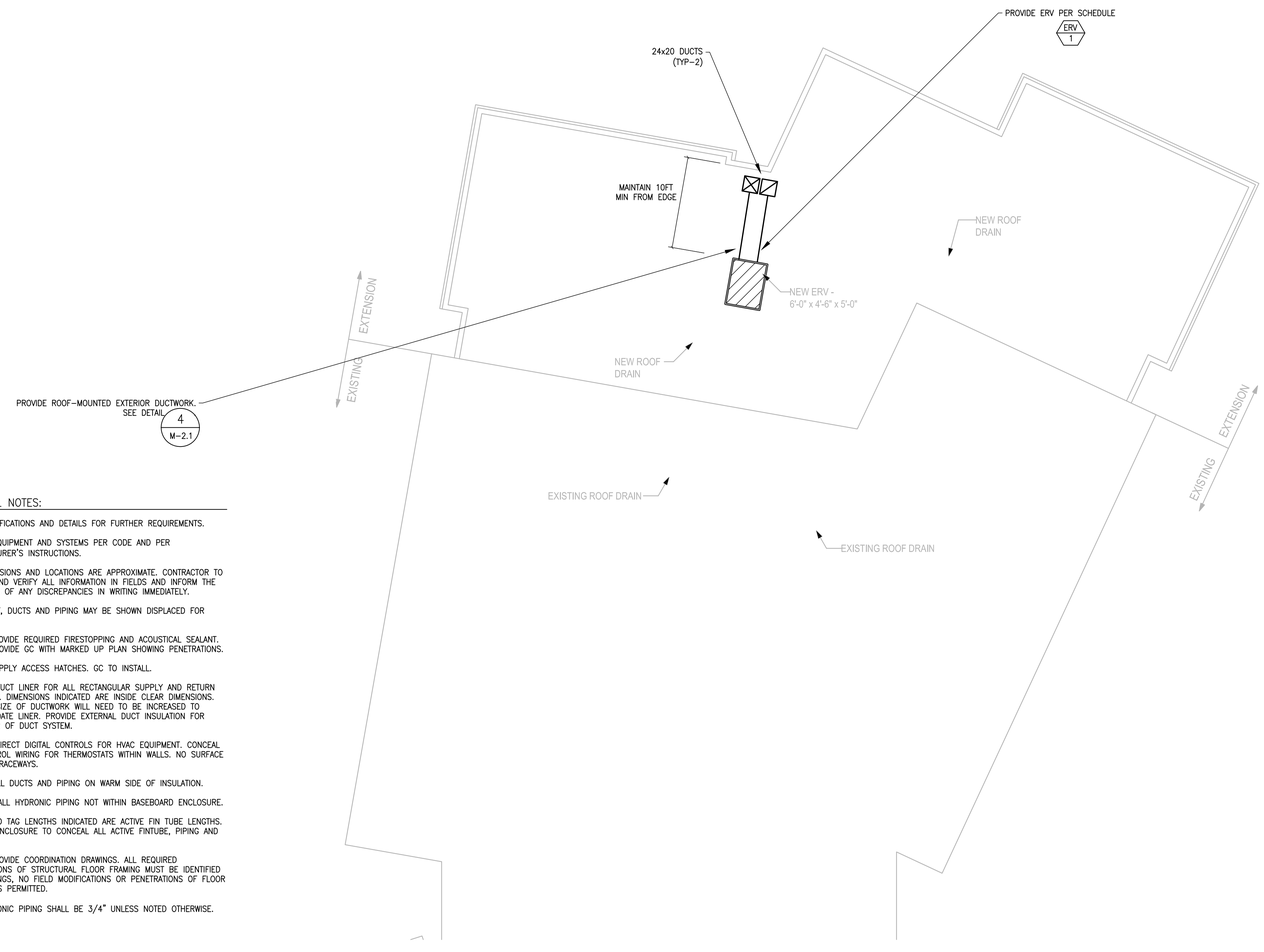
FIRST FLOOR MECHANICAL PLAN

TBA PROJECT # 1258

M-1.1



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13. ALL HYDRONIC PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.

1 / M-1.2 ROOF MECHANICAL PLAN AT ADDITION
SCALE: 1/8" = 1'-0"

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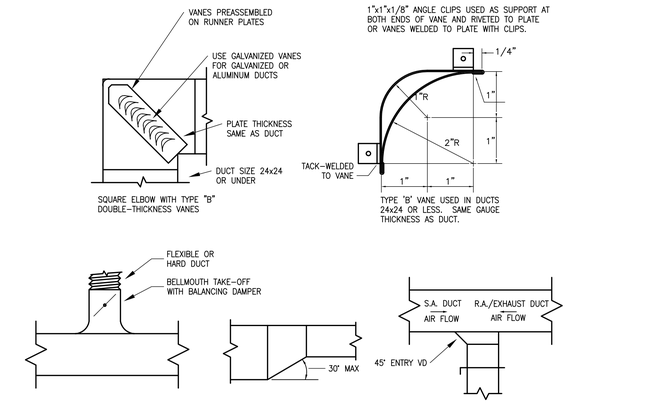
ROOF MECHANICAL PLAN AT ADDITION

TBA PROJECT # 1258

M-1.2



NOTES:

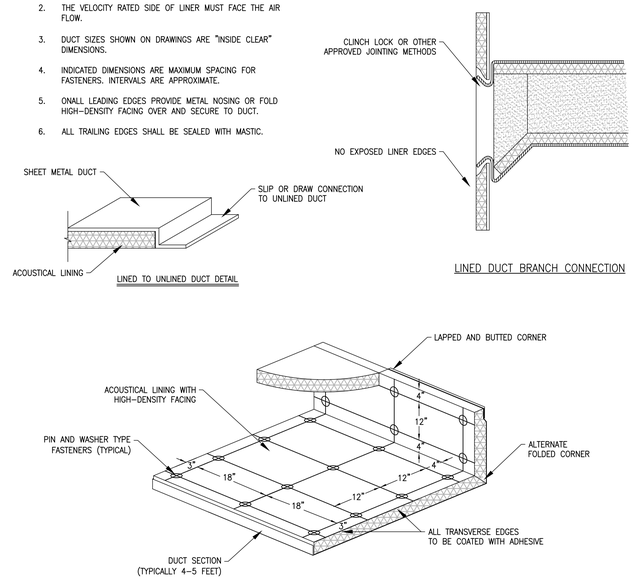
1. CONSTRUCT SHEETMETAL PER SMACNA STANDARDS AND PROJECT SPECIFICATIONS.
2. PROVIDE DUCT SEALANT AT ALL JOINTS AND SEAMS.

1 M-2.1 LOW VELOCITY DUCT DETAILS

SCALE: NTS

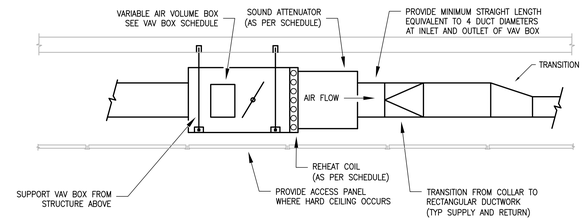
NOTES:

1. LINER ADHERED TO THE DUCT WITH 90% MINIMUM AREA COVERAGE OF ADHESIVE.
2. THE VELOCITY RATED SIDE OF LINER MUST FACE THE AIR FLOW.
3. DUCT SIZES SHOWN ON DRAWINGS ARE "INSIDE CLEAR" DIMENSIONS.
4. INDICATED DIMENSIONS ARE MAXIMUM SPACING FOR FASTENERS. INTERVALS ARE APPROXIMATE.
5. ONALL LEADING EDGES PROVIDE METAL NOSING OR FOLD HIGH-DENSITY FACING OVER AND SECURE TO DUCT.
6. ALL TRAILING EDGES SHALL BE SEALED WITH MASTIC.



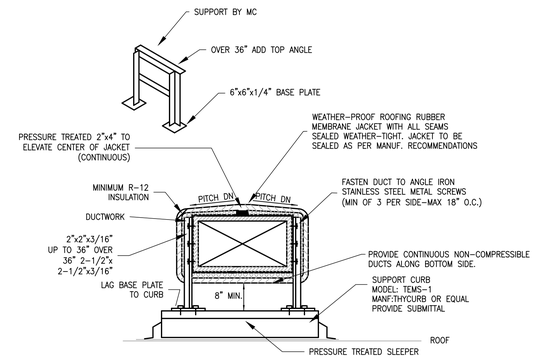
2 M-2.1 DUCT LINER DETAIL

SCALE: NTS



3 M-2.1 VARIABLE AIR VOLUME BOX

SCALE: N.T.S.

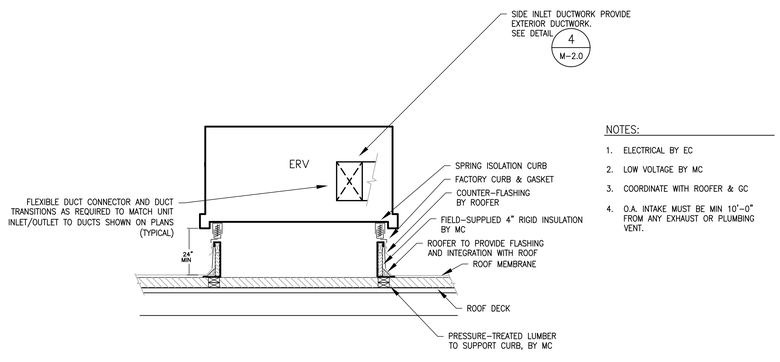


NOTES:

1. SEE PALNS & SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. MC TO FURNISH SUPPORT CURB, DUCTWORK AND ALL COMPONENTS INDICATED AND SPECIFIED.
3. ROOF INSULATION AND ROOFING BY ROOFING CONTRACTOR.
4. ALL STEEL IS TO BE GALVANIZED.
5. PROVIDE LIQUID SEALANT AT ALL DUCTWORK JOINTS PRIOR TO INSULATION.

4 M-2.1 ROOF MOUNTED DUCTWORK SUPPORT

SCALE: NTS



NOTES:

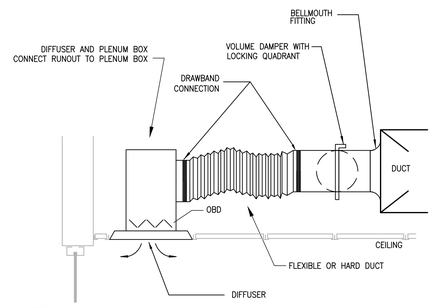
1. ELECTRICAL BY EC
2. LOW VOLTAGE BY MC
3. COORDINATE WITH ROOFER & GC
4. O.A. INTAKE MUST BE MIN 10'-0" FROM ANY EXHAUST OR PLUMBING VENT.

NOTES:

1. GENERAL OPERATION: THE ENERGY RECOVERY VENTILATOR (ERV) OPERATES DURING BUILDING OCCUPANCY AS SCHEDULED BY THE DDC. THE UNIT SHALL BE CONTROLLED BY INTEGRAL CONTROLS PACKAGE BY MANUFACTURER.
2. ERV OFF MODE: WHEN THE SYSTEM IS OFF, THE ERV's SUPPLY AND EXHAUST FAN ARE DE-ENERGIZED. THE ENERGY RECOVERY WHEEL IS POWERED OFF, AND THE OUTDOOR AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE CLOSED.
3. ERV ON MODE: WHEN THE SYSTEM IS ON, THE ERV's SUPPLY AND EXHAUST FANS ARE ENERGIZED. THE ENERGY RECOVERY WHEEL IS POWERED ON, AND THE OUTDOOR AIR DAMPER AND EXHAUST AIR DAMPER ARE 100% OPEN.
4. FANS: SUPPLY FAN SHALL INCLUDE VARIABLE AIR VOLUME OPERATION. SPEED SHALL BE CONTROLLED BY A VFD. TO MAINTAIN DUCT STATIC PRESSURE DIFFERENTIAL. EXHAUST FAN SHALL TRACK SUPPLY FAN.
5. HEATING MODE: NONE. (WHEEL ONLY.)
6. COOLING MODE: NONE. (WHEEL ONLY.)
7. ECONOMIZER CONTROL: ENTHALPY CONTROL MONITORS EXHAUST AIR AND OUTDOOR AIR ENTHALPY TO DETERMINE MOST EFFICIENT AIR SOURCE FOR AIR TEMPERING, OUTDOOR AIR DAMPER AND EXHAUST AIR DAMPERS ARE MODULATED ACCORDINGLY.
8. ERV FROST CONTROL: THE ERV UNIT'S TIMED EXHAUST FROST CONTROL SHALL SHUT DOWN THE SUPPLY FAN AND THE EXHAUST FAN WHILE THE ENERGY RECOVERY WHEEL REMAINS POWERED ON. THE ERV SHALL OPERATE IN THIS MODE AS REQUIRED TO ELIMINATE FROST ON THE ENERGY RECOVERY WHEEL. WHEN THE FROST IS ELIMINATED, THE ERV SHALL RETURN TO THE "ON MODE".
9. STARTUP: STARTUP AND CONTROL SETTINGS MUST BE PERFORMED BY A FACTORY-TRAINED & AUTHORIZED TECHNICIAN. NOTIFY ALL CONCERNED PARTIES OF SCHEDULE FOR STARTUP.
10. TRAINING: PROVIDE OWNER TRAINING FOR PROPER OPERATION.

5 M-2.1 ERV ROOFTOP UNIT DETAIL

SCALE: NTS

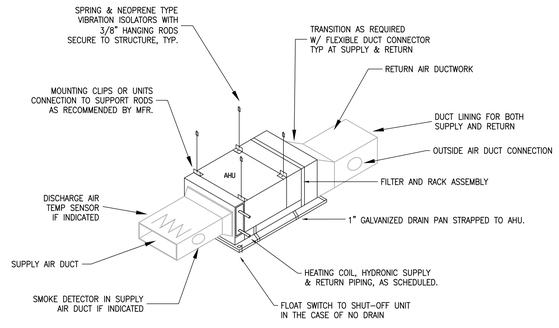


NOTES:

1. FLEXIBLE DUCT SHALL BE PRESTRETCHED PRIOR TO INSTALLATION. LENGTH OF FLEXDUCT FOR EACH RUNOUT SHALL NOT EXCEED 4 FEET.
2. PROVIDE SUPPORT FOR DIFFUSER AND PLENUM BOX FROM STRUCTURE ABOVE.
3. INSULATE DUCTWORK & PLENUM INCLUDING CONTINUOUS VAPOR BARRIER.

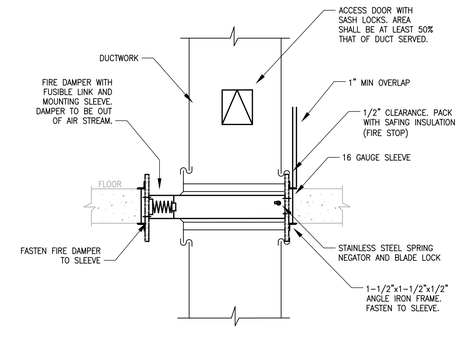
6 M-2.1 TYPICAL DIFFUSER & GRILLE DETAIL

SCALE: N.T.S.



7 M-2.1 HYDRONIC HEAT AIR HANDLER

SCALE: NTS



NOTES

1. SEE SPECIFICATIONS FOR TYPE OF CONNECTION TO DUCT, SLEEVE AND DAMPER GAUGE, AND DAMPER DETAILS.
2. TYPE B FIRE DAMPER SHOWN. FOR APPLICABLE CODES SEE SPECIFICATIONS

8 M-2.1 FIRE DAMPER @ FLOOR

SCALE: NTS

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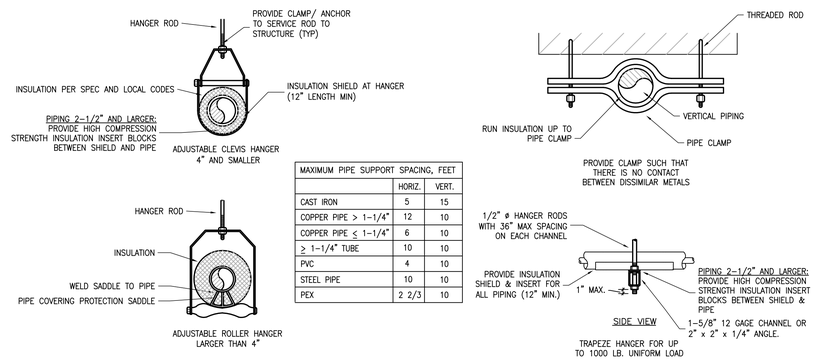
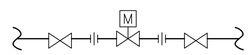


MAXIMUM PIPE SUPPORT SPACING, FEET		
	HORIZ.	VERT.
CAST IRON	5	15
COPPER PIPE > 1-1/4"	12	10
COPPER PIPE ≤ 1-1/4"	6	10
≥ 1-1/4" TUBE	10	10
PVC	4	10
STEEL PIPE	10	10
PEX	2 2/3	10

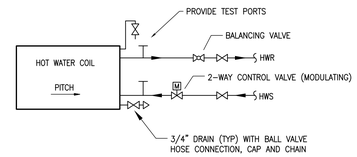
1 M-2.2 TYPICAL PIPE HANGER DETAIL

SCALE: NTS



2 M-2.2 TYPICAL ZONE VALVE DETAIL

SCALE: NTS

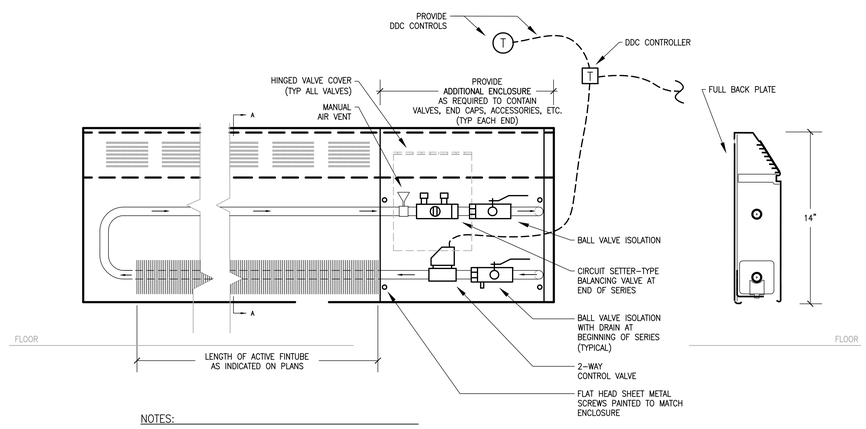


NOTES:

1. PROVIDE COUNTERFLOW COIL CONFIGURATION
2. VALVES UP TO 2" SHALL BE BALL VALVES
3. CONTROL VALVE SHALL BE NORMALLY OPEN

3 M-2.2 HOT WATER HEATING COIL PIPING

SCALE: NTS



NOTES:

1. PROVIDE TRIM PIECE AT WALLS, SPLICES, ENDS AND CORNERS.
2. ALL TRIM PIECES SHALL BE CONNECTED WITH SHEET METAL SCREWS AS INDICATED. MINIMUM 4 SCREWS PER TRIM PIECE. PAINT SCREWS TO MATCH ENCLOSURE.

4 M-2.2 FIN TUBE RADIATION PIPING DETAIL

SCALE: NTS

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M-2.2

PLUMBING LEGEND

ABBREVIATIONS

AHU	AIR HANDLING UNIT
BFP	BACKFLOW PREVENTER
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COND.	CONDENSATE
CW	COLD WATER
DDC	DIRECT DIGITAL CONTROL
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
ETR	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
FD	FLOOR DRAIN
FP	FIREPLACE
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR (CONSTRUCTION MANAGER)
ID	INDIRECT WASTE
MC	MECHANICAL CONTRACTOR (FILED SUB-BID HVAC CONTRACTOR)
NIC	NOT IN CONTRACT
NPW	NON-POTABLE WATER
OSD	OVERFLOW STORM DRAIN
PROVIDE	SUPPLY AND INSTALL
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SD	STORM DRAIN
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	SANITARY WASTE
P-1	PLUMBING FIXTURE TAG (SEE SCHEDULE)
	CONNECT TO EXISTING
(S)	TEMPERATURE SENSOR
(A)	AQUASTAT

NEW WORK (BOLD LINE)

EQUIPMENT TAG (SEE SCHEDULE) DOES NOT REQUIRE ELECTRICAL

EQUIPMENT TAG (SEE SCHEDULE) REQUIRES ELECTRICAL POWER

PUMP/CIRCULATOR

FD — FLOOR DRAINS

AD — AREA DRAINS

RD — ROOF DRAIN

CO — END CLEAN OUT

CO — FLOOR CLEAN OUT; PROVIDE BRASS COVER PLATE AT ALL FINISHED LOCATIONS

VACUUM BREAKER

HOSE BIBB/WALL HYDRANT

AIR VENT (REBUILDABLE TYPE)

BALL VALVE WITH HOSE THREAD, BRASS CAP AND CHAIN

RELIEF VALVE

PITCH DIRECTION

EMERGENCY EYE WASH

RPZ — PEX MANIFOLD (PC TO DETERMINE NUMBER OF BRANCHES)

CONCENTRIC BOILER VENT

(W) — WATER METER

(G) — GAS METER

SD — STORM DRAIN PIPING

C — CONDENSATE DRAIN PIPING

G — LOW PRESSURE GAS PIPING

EPG — ELEVATED PRESSURE GAS PIPING

GV — GAS VENT LINE

COLD WATER PIPING

DOMESTIC HOT WATER PIPING

DOMESTIC HOT WATER RECIRCULATION PIPING

CA — COMPRESSED AIR LINE

VENT LINE

BURIED VENT LINE

WASTE PIPING

BURIED WASTE PIPING

DROP, PIPE DOWN

RISER, PIPE UP

PIPE DOWN FROM TWO SIDES

BALL VALVE W/ DRAIN

BALL VALVE

BALANCING/ISOLATION VALVE

PRESSURE REDUCING VALVE

SPRING CHECK VALVE

RPZ — REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER

THERMOSTATIC 3-WAY VALVE

UNION

FLANGE

GAS SHUT OFF VALVE

BWV — BACKWATER VALVE

STRAINER WITH BALL VALVE W/ 3/4" HOSE CONNECTION, BRASS CAP AND CHAIN

PLUMBING FIXTURE SCHEDULE [1] [2] [3]

DWG ID	FIXTURE	MANUFACTURER	MODEL NUMBER	REMARKS	GPF GPM	MIN. FIXTURE CONNECTION SIZES SANITARY	VENT	CW	DHW
P-1	TOILET	AMERICAN STANDARD	2257.101 AFWALL	WALL-MOUNT ELONGATED FLUSHOMETER VALVE TOILET, SIPHON JET, ADA-COMPLIANT, MaP: 1000g [4]	1.28	3"	1-1/2"	–	–
	SEAT	AMERICAN STANDARD	5901.100	HEAVY DUTY, OPEN-FRONT, LESS COVER	–	–	–	–	–
	FLUSHOMETER	AMERICAN STANDARD	PROVIDED WITH CHINA	MANUAL PISTON-TYPE FLUSH VAVLE	1.28	–	–	1"	–
	CLOSET HANGER	J R SMITH	0532-FY	COMPACT FLOOR-MOUNT FRAME, 3" NO-HUB, 2" VENT	–	–	–	–	–
P-2	LAVATORY	AMERICAN STANDARD	9141.011	WALL-HUNG, VITREOUS CHINA, FRONT OVERFLOW, PUNCHED FOR CONCEALED CARRIER, 4" CENTERS, BARRIER-FREE [6]	–	1-1/2"	1-1/4"	–	–
	FAUCET	AMERICAN STANDARD	7500.160-V05	CENTERSET LAVATORY WITH FIELD-CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, VANDAL-RESISTANT 6" WRIST-BLADE HANDLES & AERATOR [5][7]	0.5	–	–	1/2"	1/2"
	CARRIER	J R SMITH	0710DZ	FLOOR-MOUNTED, CONCEALED ARM, BACK-TO-BACK SUPPORT, FOR NARROW WALLS	–	–	–	–	–
P-3	URINAL	AMERICAN STANDARD	6550.501	EXPOSED 3/4" TOP SPUD, HIGH EFFICIENCY, FLUSHING RIM, SIPHON JET, ADA-COMPLIANT	0.5	2"	1-1/4"	–	–
	FLUSHOMETER	AMERICAN STANDARD	PROVIDED WITH URINAL	MANUAL PISTON-TYPE URINAL FLUSH VALVE	0.5	–	–	3/4"	–
	HANGER	AMERICAN STANDARD	INCLUDED WITH CHINA	WALL HANGER	–	–	–	–	–
P-4	CLASSROOM SINK	ELKAY	DRKADQ251755	TOP-MOUNT, SINGLE BOWL, 18 GA 304 SS, ADA-COMPLIANT, REAR CENTER DRAIN, 25"x17"x5-1/2"	–	–	–	–	–
	FAUCET	AMERICAN STANDARD	7500.160-V15	CENTERSET LAVATORY WITH FIELD-CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, VANDAL-RESISTANT 6" WRIST-BLADE HANDLES & AERATOR	1.5	–	–	1/2"	1/2"
	BUBBLER	ELKAY	98502C	LOW-FLOW FLEXI BUBBLER KIT	–	–	–	1/4"	–
	DRAIN	ELKAY	LK99	STAINLESS STEEL DRAIN FITTING, REMOVABLE BASKET STRAINER	–	1-1/2"	1-1/4"	–	–
P-5	TEACHERS' LOUNGE SINK	ELKAY	LRADQ252155 GOURMET	TOP-MOUNT, SINGLE BOWL, 18 GA 304 SS, ADA-COMPLIANT, REAR CENTER DRAIN, 25"x17"x5-1/2"	–	–	–	–	–
	FAUCET	AMERICAN STANDARD	7500.160-V15	CENTERSET LAVATORY WITH FIELD-CONVERTIBLE RIGID/SWIVEL GOOSENECK SPOUT, VANDAL-RESISTANT 6" WRIST-BLADE HANDLES & AERATOR	1.5	–	–	1/2"	1/2"
	DRAIN	ELKAY	LK99	STAINLESS STEEL DRAIN FITTING, REMOVABLE BASKET STRAINER	–	1-1/2"	1-/4"	–	–
P-6	INTERIOR WALL HYDRANT	WOODFORD	MODEL 24	ANTI-SIPHON, VACUUM BREAKER, POLYCARBONATE WHEEL HANDLE, 3/4" HOSE THREAD	–	–	–	3/4"	–
P-7	EXTERNAL WALL HYDRANT	WOODFORD	MODEL B65	CONCEALED BOX-TYPE, FREEZE-PROOF, AUTO DRAIN, VACUUM BREAKER, KEY OPERATED, 3/4" HOSE THREAD	–	–	–	3/4"	–
P-8	FLOOR DRAIN	J R SMITH	2005	DUCO CAST IRON BODY, FLASHING COLLAR, TRAP PRIMER CONNECTION, VANDAL-PROOF SCREWS	–	2"	2"	–	–
	TRAP PRIMER	J R SMITH	2699	AUTOMATIC, CAST BRONZE, ANTI-SIPHON	–	–	–	1/2"	–
P-9	ROOF DRAIN	J R SMITH	DX1010-U-CID	GENERAL PURPOSE, WIDE-FLANGE BODY, SECURED VANDAL-PROOF CAST IRON DOME	–	4"	–	–	–
P-10	YOUTH TOILET	AMERICAN STANDARD	2599.001 MADERA	FLOOR-MOUNT, ELONGATED, 14" HEIGHT, SIPHON-JET, 1-1/2" INLET TOP SPUD	1.28	3"	1-1/2"	–	–
	SEAT	AMERICAN STANDARD	5901.100	HEAVY DUTY, OPEN-FRONT, LESS COVER	–	–	–	–	–
	FLUSHOMETER	AMERICAN STANDARD	PROVIDED WITH CHINA	MANUAL PISTON-TYPE FLUSH VAVLE	1.28	–	–	1"	–

[1] PROVIDE QUARTER TURN STOP VALVES, CHROME-PLATED PIPING AND ESCUTCHEON PLATES FOR EACH FIXTURE.
[2] PROVIDE AIR CHAMBERS @ CONNECTIONS TO ALL FIXTURES.
[3] ASSUME WHITE FOR FIXTURE COLOR.
[4] INSTALL LEVER ON ACCESSIBLE SIDE.
[5] PROVIDE GRID STRAINER
[6] PROVIDE PIPE PADDING FOR ALL ADA LAVS BY TRU-BRO
[7] PROVIDE TV-1 HONEYWELL UMV304U TEMPERING VALVE AT ALL LAVATORIES

GENERAL PLUMBING NOTES

1. GENERAL CONDITIONS & SPECIFICATIONS: THE GENERAL CONDITIONS, AND SPECIFICATIONS ARE PART OF THIS WORK. IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND BE FAMILIAR WITH THESE CONDITIONS & SPECIFICATIONS.
2. CODES AND ORDINANCES: INSTALLATION OF THE SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL MECHANICAL CODE, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES AND ORDINANCES.
3. REQUIREMENTS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES AND CERTIFICATES.
4. DESIGN: EQUIPMENT AND ACCESSORIES NOT SPECIFICALLY DESCRIBED OR IDENTIFIED BY MANUFACTURER'S CATALOG NUMBERS SHALL BE DESIGNED IN CONFORMITY WITH ASME, ASPE, AGA, UL OR OTHER APPLICABLE TECHNICAL STANDARDS, SUITABLE FOR MAXIMUM REQUIRED WORKING PRESSURE AND SHALL HAVE NEAT AND FINISHED APPEARANCE.
5. INSTALLATION: ERECT EQUIPMENT IN NEAT AND WORKMANLIKE MANNER; INSTALL SO THAT CONNECTING AND DISCONNECTING OF PIPES, EQUIPMENT AND ACCESSORIES CAN BE MADE READILY AND SO THAT ALL PARTS ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.
6. STANDARD PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY FITTING, CONNECTION, OR APPLIANCE. THIS CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS IN ACCORDANCE WITH THE BEST STANDARD PRACTICE OF THE TRADE.
7. EQUIPMENT LOCATION: THE P.C. SHALL VERIFY THE LOCATIONS AND MOUNTING HEIGHTS OF ALL EQUIPMENT AND MATERIALS, AND THE EXACT ROUTING OF ALL PIPES, WITH THE OWNER'S REPRESENTATIVE IN THE FIELD, PRIOR TO COMMENCING ANY WORK. ANY CONFLICTS WITH LOCATIONS, OR PROBLEMS ENCOUNTERED WITH ROUTING, SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION. COORDINATE ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT WITH E.C. BEFORE ORDERING EQUIPMENT. COORDINATE WITH M.C. FOR CW FEEDS, CONDENSATE, DHW, ETC.
8. MATERIALS: ALL MATERIALS, FIXTURES AND EQUIPMENT SHALL BE NEW WITHOUT IMPERFECTIONS AND SHALL BE DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL. WHEREVER POSSIBLE, ALL TRIM, ACCESSORIES AND PARTS SHALL BE OF THE SAME MANUFACTURER AS THE RELATED EQUIPMENT AND FIXTURES.
9. PLUMBING: ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH COMMONWEALTH OF MASSACHUSETTS FUEL GAS AND PLUMBING CODE, 248 CMR, & NFPA 54.
10. ELECTRICAL: ALL ELECTRICAL SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL REQUIREMENTS.
11. GENERAL COORDINATION: EXAMINE ALL DRAWINGS AND OTHER SECTIONS OF THE SPECIFICATIONS FOR REQUIREMENTS WHICH AFFECT THE WORK OF THIS SECTION. COORDINATE WORK WITH THAT OF OTHER TRADES AFFECTING, OR AFFECTED BY, WORK OF THIS SECTION. COOPERATE WITH OTHER TRADES TO ENSURE THE STEADY PROGRESS OF THE WORK.
12. PROTECTION OF EQUIPMENT AND MATERIALS: RESPONSIBILITY FOR CARE AND PROTECTION OF ALL MATERIALS AND WORK RESTS WITH THIS CONTRACTOR AT ALL TIMES UNTIL IT HAS BEEN APPROVED.
13. GUARANTEE: ALL NEW COMPONENTS OF THE INSTALLATION SHALL BE GUARANTEED IN WRITING BY THIS CONTRACTOR TO BE FREE FROM DEFECTS OF MANUFACTURE AND INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN ACCEPTANCE OF THE ENTIRE BUILDING BY THE ENGINEER. ANY DEFECTS FOUND SHALL BE REPAIRED BY THE PLUMBING CONTRACTOR AT THEIR OWN EXPENSE.
14. NOTIFICATION: THE P.C. SHALL NOTIFY THE ENGINEER UPON: (1) COMPLETION OF ALL ROUGH PIPING, BEFORE CLOSURE OF ANY TRENCHES, OPEN WALL CAVITIES OR CHASES. (2) UPON "SUBSTANTIAL COMPLETION" OF ALL SYSTEMS INCLUDING OPERATIONAL SYSTEMS AND FINISH WORK. AFTER "SUBSTANTIAL COMPLETION", THE ARCHITECT WILL PREPARE A PUNCH LIST OF ITEMS TO BE CORRECTED. THE P.C. SHALL CORRECT ANY DEFICIENCIES FOUND PROMPTLY, AT THEIR OWN EXPENSE.
15. FINAL COMPLETION: THE WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL THE PUNCH LIST IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND ALL FINAL INSPECTIONS HAVE BEEN COMPLETED.

PLUMBING EQUIPMENT SCHEDULE

(–) REQUIRES ELECTRICITY — (–) DOES NOT REQUIRE ELECTRICITY

DWG ID	EQUIPMENT	MANUFACTURER	MODEL NUMBER	PERFORMANCE/REMARKS	ELECTRICAL DATA HP (W) V / Ø / Hz
TV-1	LAVATORY TEMPERING VALVE	HONEYWELL	UMV-304U	THERMOSTATIC, UNDER SINK, FOUR PORT, 3.0 GPM MAX FLOW, TEMPERATURE RANGE 80°F-120°F [1]	N/A

[1] IN SITUATIONS WHERE MORE THAN ONE LAVATORY EXISTS, PIPE TWO LAVATORIES OFF OF A SINGLE TEMPERING VALVE. TEMPERED WATER SHALL BE RUN TO SECOND SINK WITHIN WALL.

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PLUMBING LEGEND, NOTES, & SCHEDULES

TBA PROJECT # 1258

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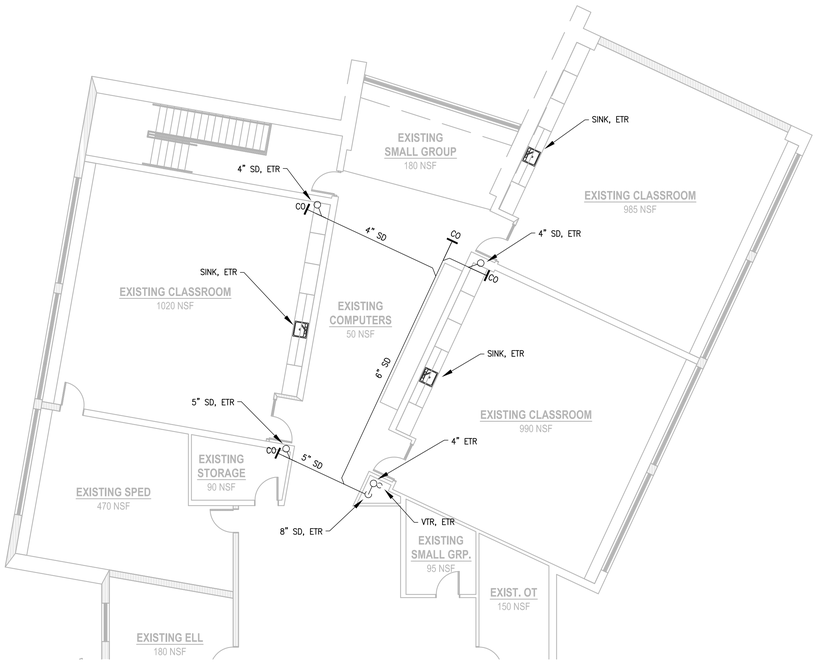
PLUMBING DEMOLITION NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
3. PC TO CUT, CAP AND MAKE SAFE ALL PLUMBING TO FACILITATE REMOVAL & DISPOSAL BY GC.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURE & EQUIPMENT TO REMAIN AND PATCHING ALL PENETRATIONS & HOLES IN FLOORS, WALLS, AND CEILINGS DUE TO DEMOLITION. MATCH SURROUNDING FINISH OR REPLACE.
5. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COORDINATING W/ THE GC, MC, EC & OWNER TO DETERMINE EXACT QUANTITIES AND LOCATIONS PRIOR TO BIDDING.

DEMOLITION LEGEND

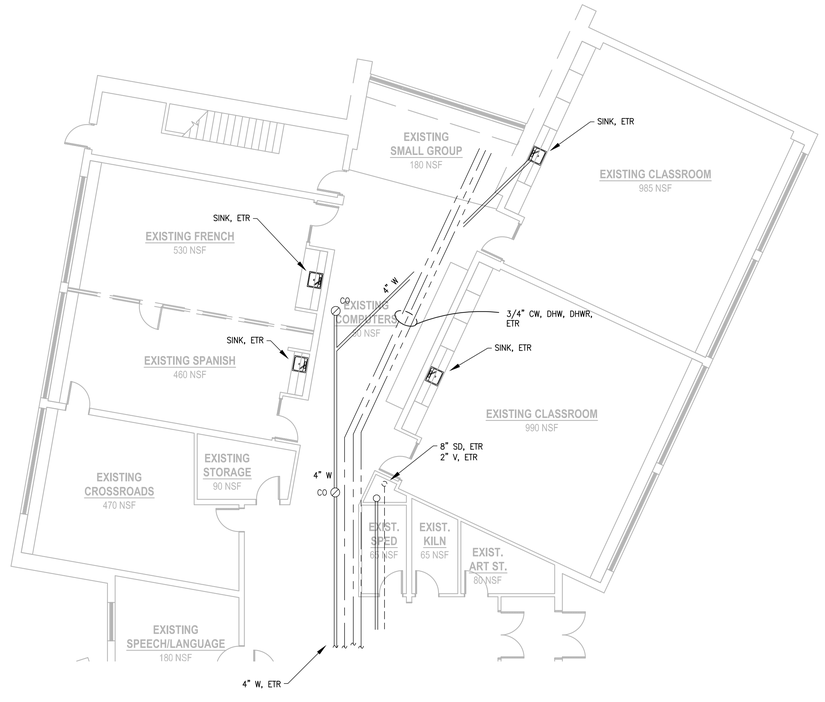
- - - - - - DEMOLISH & DISPOSE

———— EXISTING TO REMAIN (ETR)



1 PX-1.0 EXISTING SECOND FLOOR PLAN AT ADDITION

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



2 PX-1.0 EXISTING FIRST FLOOR PLAN AT ADDITION

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

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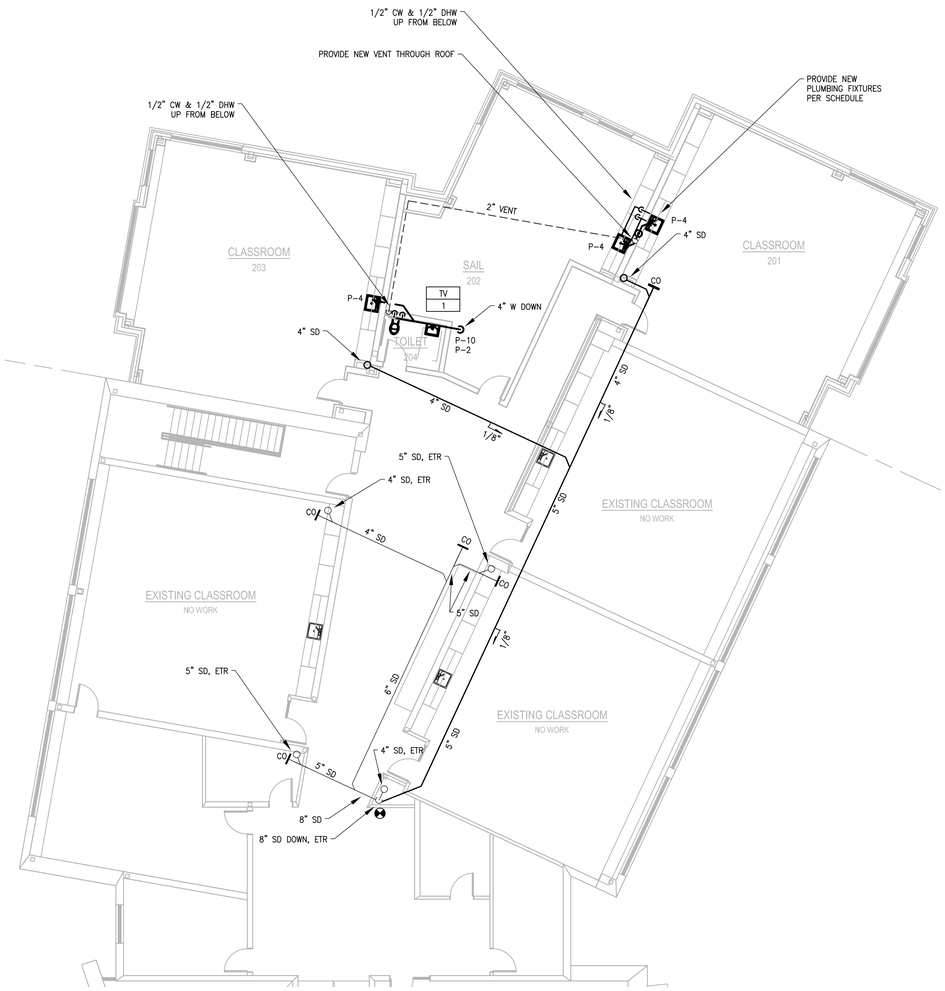
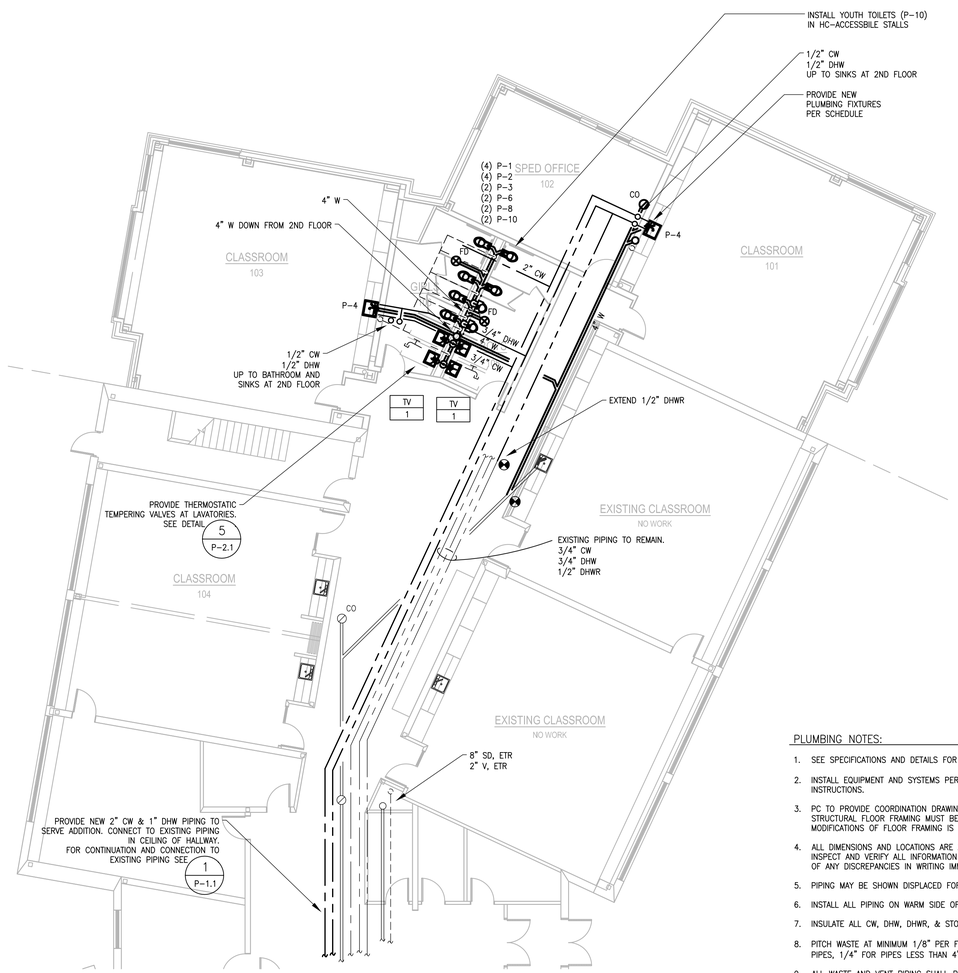


1 P-1.0 SECOND FLOOR PLUMBING PLAN AT ADDITION

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



2 P-1.0 FIRST FLOOR PLUMBING PLAN AT ADDITION

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

PLUMBING NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. INSTALL EQUIPMENT AND SYSTEMS PER CODE AND PER MANUFACTURER'S INSTRUCTIONS.
3. PC TO PROVIDE COORDINATION DRAWINGS. ALL REQUIRED PENETRATION OF STRUCTURAL FLOOR FRAMING MUST BE IDENTIFIED IN DRAWINGS. NO FIELD MODIFICATIONS OF FLOOR FRAMING IS PERMITTED.
4. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
5. PIPING MAY BE SHOWN DISPLACED FOR CLARITY.
6. INSTALL ALL PIPING ON WARM SIDE OF BUILDING INSULATION.
7. INSULATE ALL CW, DHW, DHWR, & STORM DRAIN PIPING.
8. PITCH WASTE AT MINIMUM 1/8" PER FOOT FOR 4" DIAMETER AND LARGER PIPES, 1/4" FOR PIPES LESS THAN 4" IN DIAMETER.
9. ALL WASTE AND VENT PIPING SHALL BE CAST IRON OR COPPER.
10. PROVIDE 1/2" CLOSED-CELL FOAM SLEEVES FOR ALL PIPE WHICH PENETRATES SLAB-ON-GRADE FLOOR PRIOR TO POURING CONCRETE.
11. PROVIDE LOCAL ISOLATION, STOP VALVE, ETC. FOR DHW AND CW FEEDS TO EACH PLUMBING FIXTURE
12. VENT FIXTURES PER SCHEDULE AND CONNECT TO RISERS & VENT MAINS SHOWN ON PLAN. ALL VENT PIPING NOT SHOWN.
13. GC TO PROVIDE REQUIRED FIRESTOPPING. PC TO PROVIDE GC WITH MARKED UP PLAN SHOWING PENETRATIONS.
14. PC TO SUPPLY ACCESS HATCHES. GC TO INSTALL.
15. GC TO PROVIDE ALL CORING. CONTRACTOR SHALL PROVIDE GC WITH MARKED UP PLAN INDICATING EXACT LOCATION AND SIZE OF PIPE PENETRATIONS THROUGH FLOORS AND INTERIOR AND EXTERIOR WALLS.

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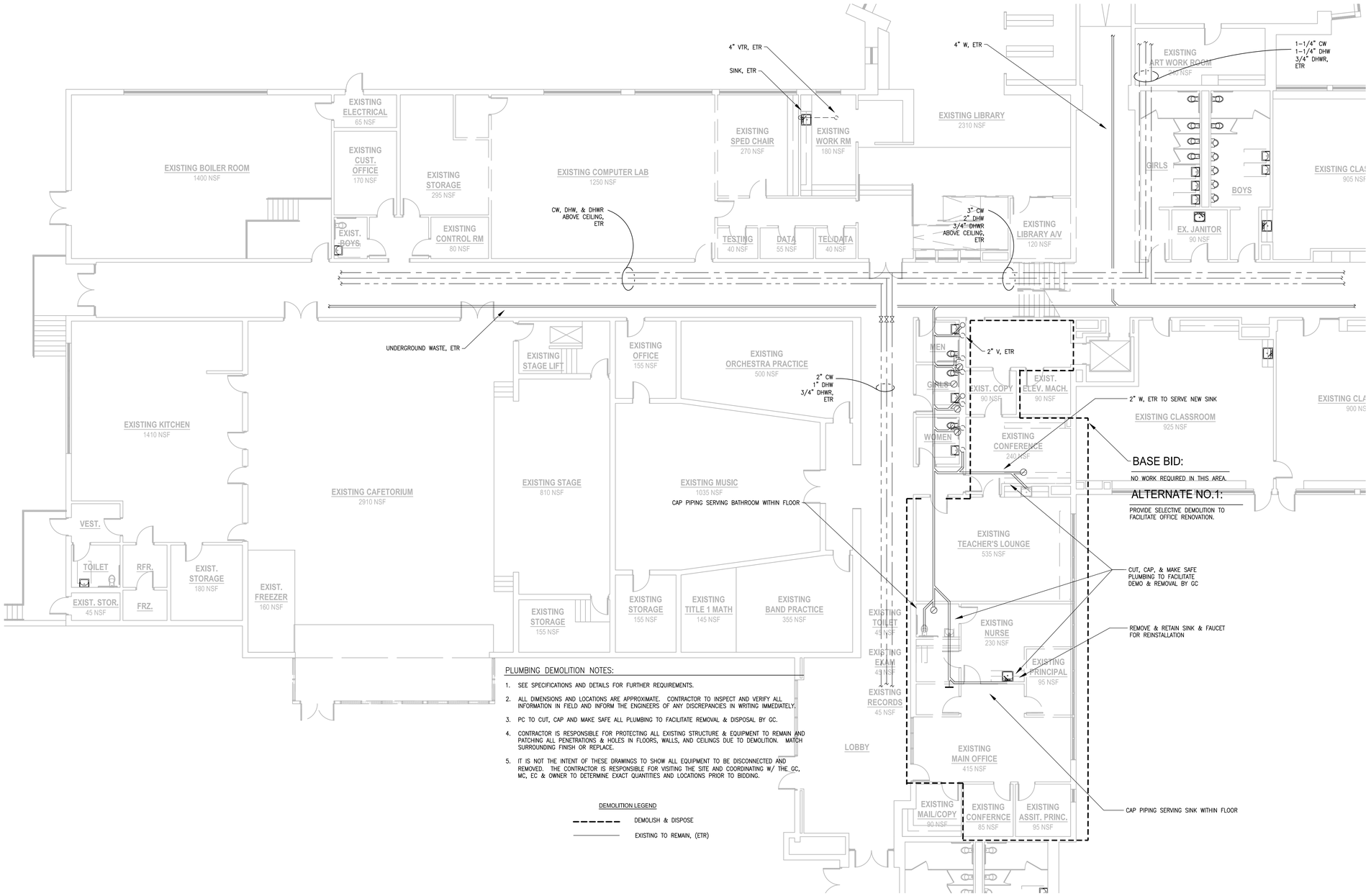
P-1.0



PLUMBING DEMOLITION NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
3. PC TO CUT, CAP AND MAKE SAFE ALL PLUMBING TO FACILITATE REMOVAL & DISPOSAL BY GC.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURE & EQUIPMENT TO REMAIN AND PATCHING ALL PENETRATIONS & HOLES IN FLOORS, WALLS, AND CEILINGS DUE TO DEMOLITION. MATCH SURROUNDING FINISH OR REPLACE.
5. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COORDINATING W/ THE GC, MC, EC & OWNER TO DETERMINE EXACT QUANTITIES AND LOCATIONS PRIOR TO BIDDING.

DEMOLITION LEGEND

- - - - - - DEMOLISH & DISPOSE

———— EXISTING TO REMAIN, (ETR)

1 / PX-1.1 EXISTING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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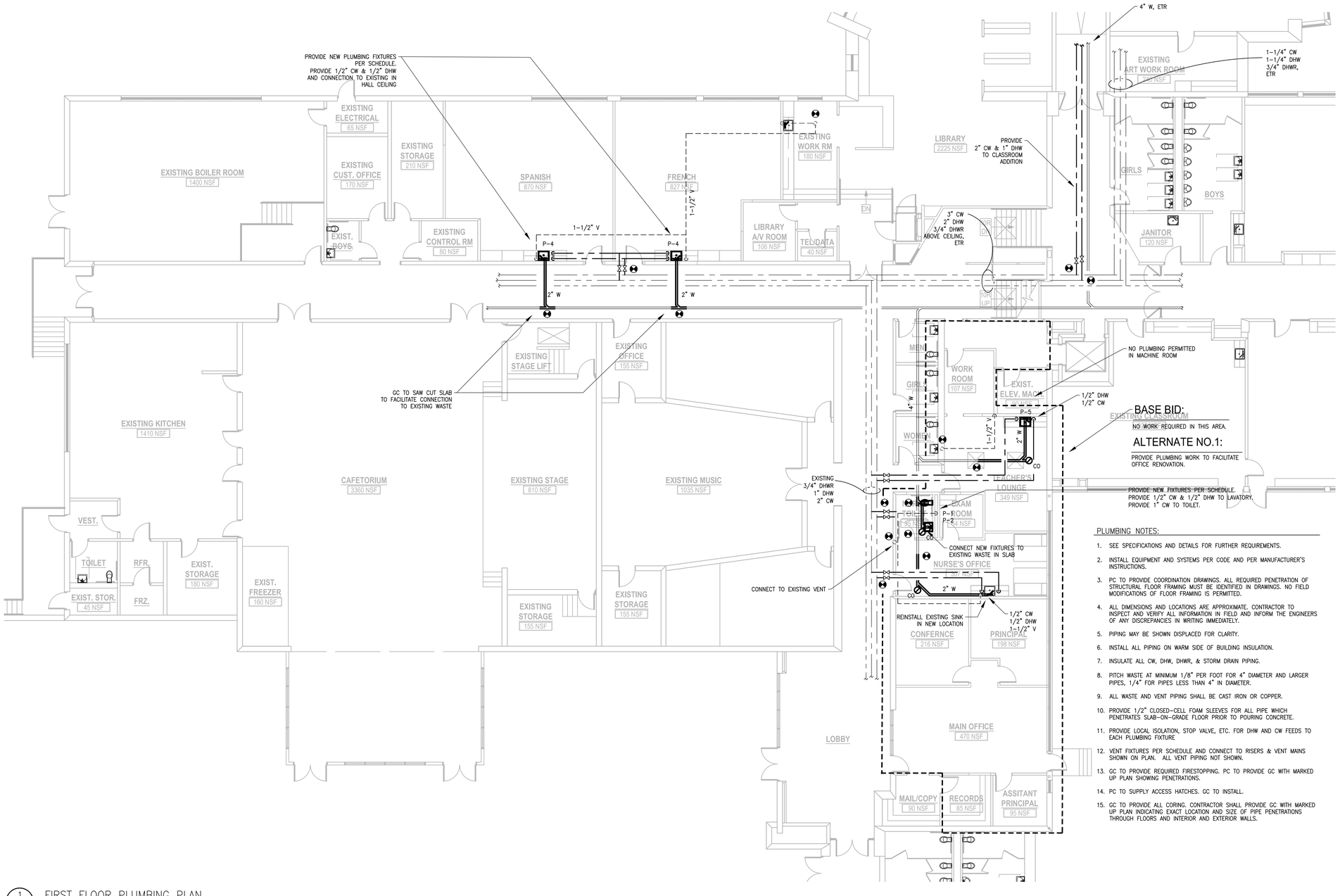

1 P-1.1 FIRST FLOOR PLUMBING PLAN

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

PLUMBING NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. INSTALL EQUIPMENT AND SYSTEMS PER CODE AND PER MANUFACTURER'S INSTRUCTIONS.
3. PC TO PROVIDE COORDINATION DRAWINGS. ALL REQUIRED PENETRATION OF STRUCTURAL FLOOR FRAMING MUST BE IDENTIFIED IN DRAWINGS. NO FIELD MODIFICATIONS OF FLOOR FRAMING IS PERMITTED.
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6. INSTALL ALL PIPING ON WARM SIDE OF BUILDING INSULATION.
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8. PITCH WASTE AT MINIMUM 1/8" PER FOOT FOR 4" DIAMETER AND LARGER PIPES, 1/4" FOR PIPES LESS THAN 4" IN DIAMETER.
9. ALL WASTE AND VENT PIPING SHALL BE CAST IRON OR COPPER.
10. PROVIDE 1/2" CLOSED-CELL FOAM SLEEVES FOR ALL PIPE WHICH PENETRATES SLAB-ON-GRADE FLOOR PRIOR TO POURING CONCRETE.
11. PROVIDE LOCAL ISOLATION, STOP VALVE, ETC. FOR DHW AND CW FEEDS TO EACH PLUMBING FIXTURE
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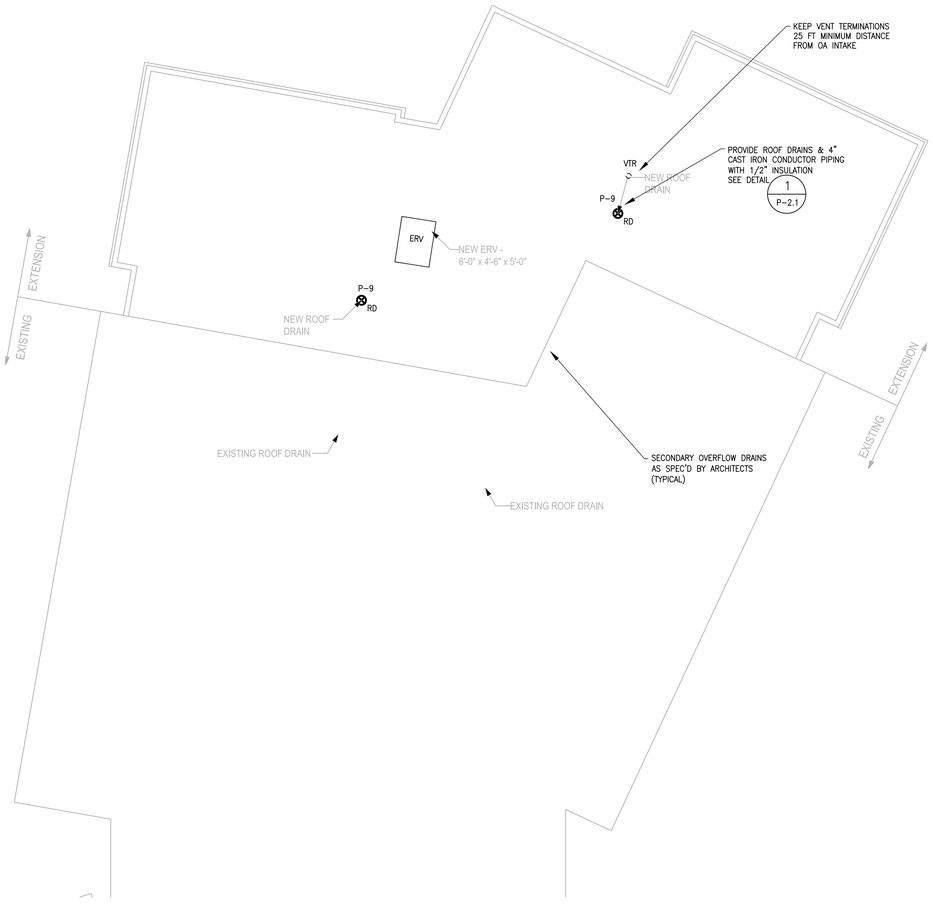

1 P-1.2 ROOF PLUMBING PLAN AT ADDITION

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

PLUMBING NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. INSTALL EQUIPMENT AND SYSTEMS PER CODE AND PER MANUFACTURER'S INSTRUCTIONS.
3. PC TO PROVIDE COORDINATION DRAWINGS. ALL REQUIRED PENETRATION OF STRUCTURAL FLOOR FRAMING MUST BE IDENTIFIED IN DRAWINGS. NO FIELD MODIFICATIONS OF FLOOR FRAMING IS PERMITTED.
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5. PIPING MAY BE SHOWN DISPLACED FOR CLARITY.
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7. INSULATE ALL CW, DHW, DHWR, & STORM DRAIN PIPING.
8. PITCH WASTE AT MINIMUM 1/8" PER FOOT FOR 4" DIAMETER AND LARGER PIPES, 1/4" FOR PIPES LESS THAN 4" IN DIAMETER.
9. ALL WASTE AND VENT PIPING SHALL BE CAST IRON OR COPPER.
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11. PROVIDE LOCAL ISOLATION, STOP VALVE, ETC. FOR DHW AND CW FEEDS TO EACH PLUMBING FIXTURE
12. VENT FIXTURES PER SCHEDULE AND CONNECT TO RISERS & VENT MAINS SHOWN ON PLAN. ALL VENT PIPING NOT SHOWN.
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14. PC TO SUPPLY ACCESS HATCHES. GC TO INSTALL.
15. GC TO PROVIDE ALL CORING. CONTRACTOR SHALL PROVIDE GC WITH MARKED UP PLAN INDICATING EXACT LOCATION AND SIZE OF PIPE PENETRATIONS THROUGH FLOORS AND INTERIOR AND EXTERIOR WALLS.

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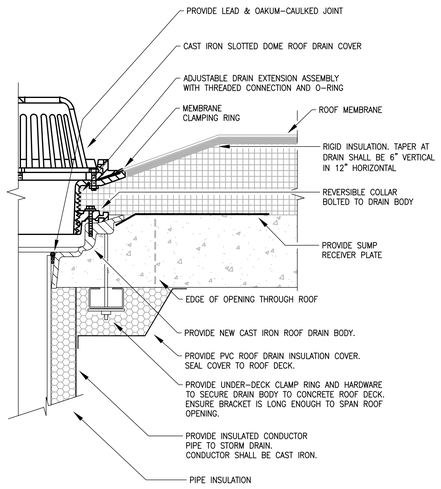
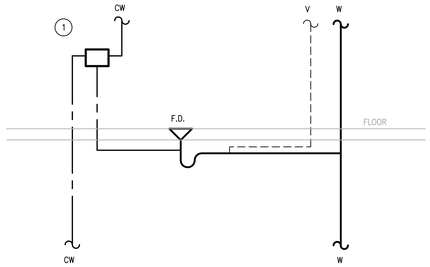
P-1.2



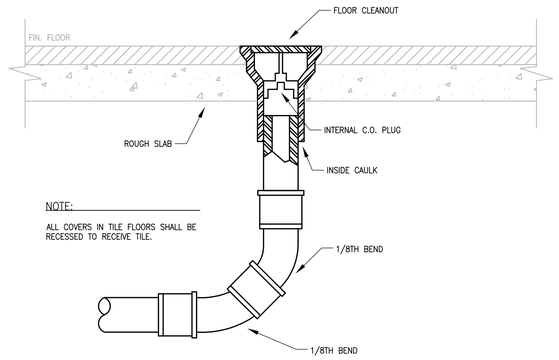
1 P-2.1 ROOF DRAIN DETAIL
SCALE: NTS



NOTES:

1. AUTOMATIC TRAP PRIMER. LOCATE WHERE ACCESSIBLE FOR SERVICE. PIPE FROM COLD WATER LINE SERVING FREQUENTLY-USED SINGLE FIXTURE.

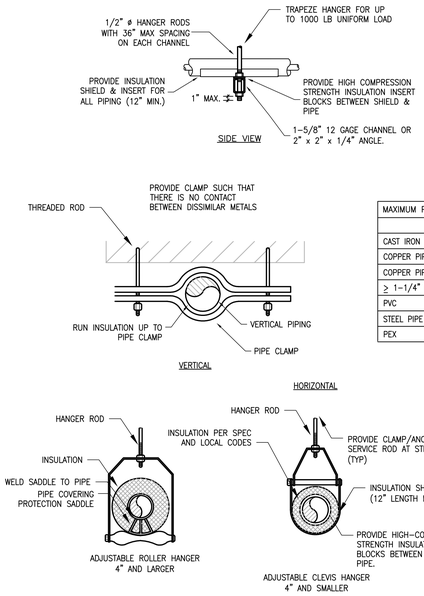
2 P-2.1 TRAP PRIMER DETAIL
SCALE: NTS



NOTE:

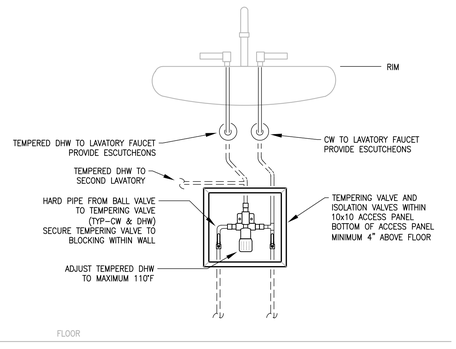
ALL COVERS IN TILE FLOORS SHALL BE RECESSED TO RECEIVE TILE.

3 P-2.1 FLOOR CLEANOUT
SCALE: N.T.S.



MAXIMUM PIPE SUPPORT SPACING, FEET		
	HORIZ.	VERT.
CAST IRON	5	15
COPPER PIPE > 1-1/4"	12	10
COPPER PIPE ≤ 1-1/4"	6	10
≥ 1-1/4" TUBE	10	10
PVC	4	10
STEEL PIPE	10	10
PEX	2 2/3	10

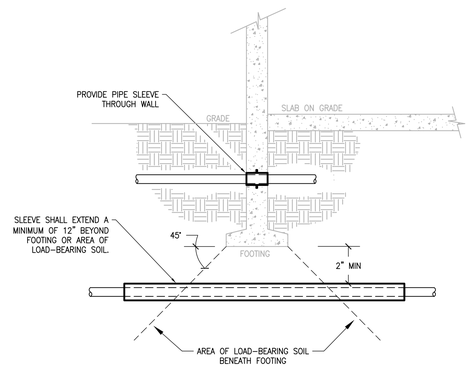
4 P-2.1 TYPICAL PIPE HANGER DETAIL
SCALE: NTS



NOTES:

1. SEE SCHEDULE, PLANS, AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. INSULATE ALL CW & DHW PER SPEC AND NOTES.
3. RIM HEIGHT PER MAAB AND ADA. SEE ARCHITECT'S DRAWINGS.
4. PROVIDE 1/4-TURN ISOLATION VALVES FOR DHW AND CW AT EACH LAVATORY IF SERVING MORE THAN ONE LAVATORY.
5. IN SITUATIONS WHERE MORE THAN ONE LAVATORY IS MOUNTED IN A LOCATION, TWO LAVATORY FAUCETS SHALL BE SUPPLIED WITH TEMPERED WATER FROM A SINGLE TEMPERING VALVE. TEMPERED WATER SHALL BE RUN TO THE SECOND FAUCET WITHIN WALL.

5 P-2.1 POINT-OF-USE TEMPERING VALVE AT LAVATORY
SCALE: NTS



NOTES:

1. NO PIPING SHALL RUN PARALLEL TO FOOTINGS WITHIN "AREA OF LOAD-BEARING SOIL" AND SHALL BE A MINIMUM OF 24" HORIZONTAL PIPE.
2. SLEEVE SHALL BE 2 PIPE SIZES LARGER THAN PIPE BEING SLEEVED.

7 P-2.1 PIPE SLEEVE DETAIL
SCALE: NTS

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P-2.1

TABLE 8.6.5.1.2 POSITIONING OF SPRINKLER TO AVOID OBSTRUCTION TO DISCHARGE	
DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (INCHES) (B)
LESS THAN 1 FT	0
1'–0" TO LESS THAN 1'–6"	0"–2.5"
1'–6" TO LESS THAN 2'–0"	0"–3.5"
2'–0" TO LESS THAN 2'–6"	0"–5.5"
2'–6" TO LESS THAN 3'–0"	0"–7.5"
3'–0" TO LESS THAN 3'–6"	0"–9.5"
3'–6" TO LESS THAN 4'–0"	1'–0"
4'–0" TO LESS THAN 4'–6"	1'–2"
4'–6" TO LESS THAN 5'–0"	1'–4.5"
5'–0" TO LESS THAN 5'–6"	1'–6"
5'–6" TO LESS THAN 6'–0"	1'–8"
6'–0" TO LESS THAN 6'–6"	2'–0"
6'–6" TO LESS THAN 7'–0"	2'–6"
7'–0" AND GREATER	2'–11"

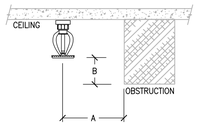


FIGURE 8.10.6.1.2(A)
POSITIONING OF SPRINKLERS TO AVOID
OBSTRUCTION TO DISCHARGE

NFPA 13 TABLE 8.6.5.1.2 + FIGURE 8.6.5.1.2(A) & (B) STANDARD PENDENT AND UPRIGHT SPRAY SPRINKLERS

2 / FP–0.1 OBSTRUCTION RULES FOR INSTALLATION – STANDARD UPRIGHT AND PENDENT HEADS

SCALE: NTS

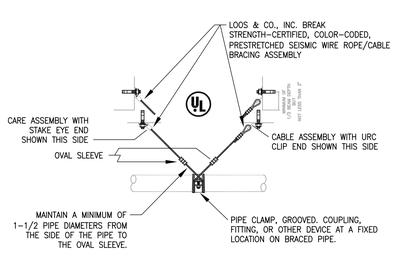
FIRE PROTECTION LEGEND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BFP	BACK FLOW PREVENTER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DR	DRAIN
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR
ETR	EXISTING TO REMAIN
EX./EXIST.	EXISTING
FCA	FLOOR CONTROL ASSEMBLY
FD	FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FS	FLOW SWITCH
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
LPS	LOW PRESSURE SWITCH
MC	MECHANICAL CONTRACTOR
NTS	NOT TO BE SPRINKLERED
NIC	NOT IN CONTRACT
PROVIDE	SUPPLY AND INSTALL
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
SPR	SPRINKLER
TS	TAMPER SWITCH
TYP	TYPICAL
U.G.	UNDERGROUND
W/	WITH

NEW WORK (BOLD LINE)
EXISTING WORK (LIGHT OR SHADED LINE)
FIRE DEPARTMENT CONNECTION
FIRE DEPARTMENT STORZ CONNECTION
ELECTRIC BELL
HYDRAULIC REFERENCE POINT
CONNECT TO EXISTING
CONCEALED PENDENT RESIDENTIAL SPRINKLER HEAD
QUICK RESPONSE RECESSED PENDENT SPRINKLER HEAD
QUICK RESPONSE UPRIGHT SPRINKLER HEAD
SIDEWALL RESIDENTIAL HEAD, WHITE FINISH
212 NUMBER DENOTES INTERMEDIATE TEMPERATURE HEAD
DRY PENDANT SPRINKLER
QUICK RESPONSE RECESSED DRY PENDENT SPRINKLER HEAD
DRY SIDEWALL SPRINKLER
212 INTERMEDIATE TEMPERATURE CONCEALED UPRIGHT HEAD

FIRE PROTECTION PIPING
DROP, PIPE DOWN
RISER, PIPE UP
BALL VALVE
TS ISOLATION WITH TAMPER SWITCH
SPRING CHECK VALVE
TS O.S. & Y. VALVE WITH TAMPER SWITCH
UNION
FLANGE
BALL VALVE WITH HOSE THREAD, BRASS CAP AND CHAIN
TS DCVA TS DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER
PS WATERFLOW ALARM SWITCH
TS TAMPER SWITCH
LPS LOW–PRESSURE SWITCH
FAS SPRINKLER TEST & DRAIN ASSEMBLY
DCV DRY CONTROL VALVE
FCV FLOOR CONTROL VALVE
FCA FLOOR CONTROL ASSEMBLY



2 / FP–0.1 SEISMIC BRACING DETAIL

NTS

SPRINKLER NOTES:

1. LAYOUT OF SPRINKLER HEADS AND HYDRAULIC CALCULATIONS ARE FOR BUILDING DEPARTMENT USE ONLY. SPRINKLER CONTRACTOR SHALL PREPARE FINAL SPRINKLER HEAD LAYOUT AND SHOP DRAWINGS INCLUDING HYDRAULIC CALCULATIONS AND OBTAIN ALL APPROVALS AS REQUIRED.
2. THE BASE BUILDING "CONTRACT DRAWINGS" AND "SPECIFICATIONS" INCLUDING ALL RESPECTIVE ADDENDA AND BULLETINS SHALL FORM A PART OF THIS WORK AND ALL WORK SHALL BE SUBJECT TO RESPECTIVE PROVISIONS THEREFORE.
3. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES, NOTIFY ENGINEER OF CONFLICTS PRIOR TO INSTALLATION OF PIPING OR EQUIPMENT.
4. SPRINKLER CONTRACTOR SHALL ADJUST AND/OR ADD SPRINKLER HEADS AS REQUIRED UTILIZING ARCHITECT'S REFLECED CEILING PLAN FOR LOCATION OF LIGHTS, DIFFUSERS, CABLE TRAYS, ETC.
5. SPRINKLER CONTRACTOR SHALL PERFORM A NEW HYDRANT FLOW TEST TO PREPARE HIS SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
6. ALL SPRINKLER WORK SHALL BE IN STRICT CONFORMANCE WITH NFPA–13, LOCAL FIRE DEPARTMENT, MASSACHUSETTS STATE BUILDING CODE, AND THE OWNER'S INSURANCE COMPANY.
7. CONTRACTOR SHALL DETERMINE BEST LOCATION FOR ROUTING ALL ASSOCIATED SPRINKLER LINES. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
8. ALL NEW VALVE CONTROLLING THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SURPERVISED. TYPE AND EXACT LOCATION OF FLOOR, PRESSURE AND SUPERVISORY SWITCHES SHALL BE ACCOMPLISHED BETWEEN THE RESPONSIBLE TRADES.
9. REFER TO THE SPRINKLER HEAD LEGEND FOR THE MANUFACTURER, MODEL, SIZE, TEMPERATURE RATING, AND FINISH OF ALL SPRINKLER HEADS.
10. WATER FILLED SPRINKLER PIPE SHALL NOT BE INSTALLED IN ANY AREA SUBJECT TO FREEZING. THE OWNER SHALL PROVIDE SUFFICIENT HEAT AT ALL TIMES TO PREVENT WATER FILLED SPRINKLER PIPE FROM FREEZING.
11. MATERIALS:
    A. ALL PIPING AND FITTINGS SHALL CONFORM TO THE MANUFACTURE'S REQUIREMENTS.
    B. ALL PIPING AND FITTINGS SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE BEING INSTALLED.
12. REFER TO ARCHITECTURAL DRAWINGS FOR HUNG CEILING HEIGHTS AND CONSTRUCTION. WHERE WORK BETWEEN THIS DRAWING AND ARCHITECTURAL PLANS ARE IN CONFLICT, ADVISE PRIOR TO INSTALLATION OF PIPING.
13. CONTRACTOR SHALL NOT INSTALL ANY SPRINKLER PIPING THAT WILL INTERFERE WITH THE MAINTENANCE/REMOVAL OF HVAC EQUIPMENT.
14. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING HEIGHT CHANGES, OR ANY OTHER VERTICAL INTERSECTING SURFACE.
15. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET OR WIDER.
16. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN BASEMENTS AND MECHANICAL AREAS.
17. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AND ARCHITECT.
18. FIRESTOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
19. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON–ACCESSIBLE CEILINGS AND CHASES.
20. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA–13 2–2.8
21. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA–13.
22. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. AND THEY FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 PSI WORKING PRESSURE.
23. ALL POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. ALL ALARM AND TAMPER SWITCHES SHALL BE PROVIDED, AND TESTED UNDER THIS SECTION OF THE SPECIFICATIONS WITH WIRING PROVIDED IN THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR.
24. PROVIDE A PERMANENTLY ATTACHED HYDRAULIC DESIGN INFORMATION SIGN STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
25. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS.
26. CONTRACTOR SHALL CONDUCT A THOROUGH EXAMINATION OF THE DRAWINGS AND PREMISES PRIOR TO PREPARING A PROPOSAL. ANY CHANGES TO THE DESIGN MADE NECESSARY BY FIELD CONDITIONS SHALL BE CONVEYED TO THE ENGINEER PRIOR TO PREPARATION OF A PROPOSAL. NO ADDITIONAL COSTS BEYOND THE PROPOSAL PRICE WILL BE ACCEPTED FOR FIELD CONDITIONS THAT COULD HAVE BEEN DETERMINED BY AN INSPECTION OF THE PREMISES.
27. SEISMIC BRACING SHALL BE PROVIDE AND INSTALLED IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE AND NFPA 13.

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SCALE
AS NOTED

SHEET NAME
FIRE PROTECTION LEGEND, NOTES, & DETAILS

TBA PROJECT # 1258

FP-0.1

DEMOLITION NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
3. REMOVE ALL EQUIPMENT AND PIPING AS INDICATED.
4. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURE & EQUIPMENT TO REMAIN.
5. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT TO BE DISCONNECTED AND REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COORDINATING W/ THE PC, EC & OWNER TO DETERMINE EXACT QUANTITIES AND LOCATIONS PRIOR TO BIDDING.
6. RECORD DRAWINGS ARE AVAILABLE FOR REVIEW UPON REQUEST.
7. BUILDING WILL BE OCCUPIED DURING PROJECT. FPC IS RESPONSIBLE FOR ENSURING THE SPRINKLER SYSTEM REMAINS OPERATIONAL DURING ENTIRE PROJECT.
8. COORDINATE SEQUENCE OF DEMOLITION AND CONSTRUCTION CAREFULLY WITH GC.

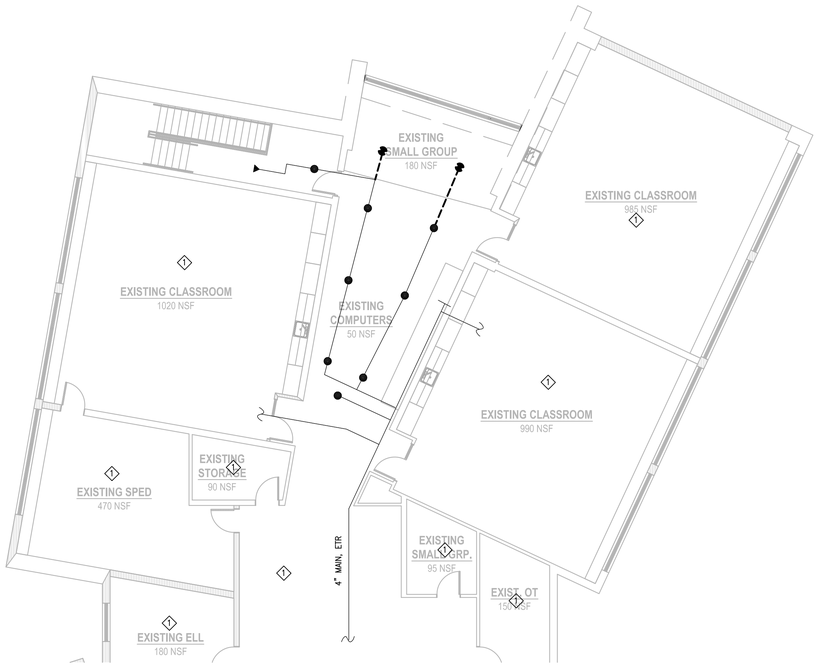
DEMOLITION LEGEND

- - - - - - DEMOLISH & DISPOSE

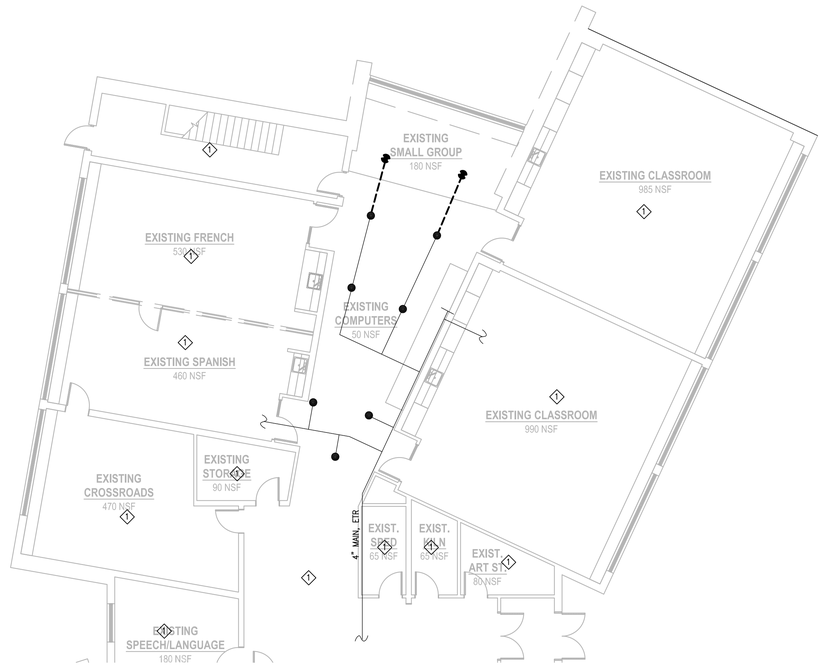
———————— EXISTING TO REMAIN

KEYED SPRINKLER NOTES:

1. SPRINKLER COVERAGE, ETR



1 FPX-1.0 EXISTING SECOND FLOOR FIRE PROTECTION PLAN AT ADDITION
SCALE: 1/8" = 1'-0"



2 FPX-1.0 EXISTING FIRST FLOOR FIRE PROTECTION PLAN AT ADDITION
SCALE: 1/8" = 1'-0"

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SHEET NAME
EXISTING FIRE PROTECTION PLANS AT ADDITION

TBA PROJECT # 1258

FPX-1.0

FIRE PROTECTION NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
2. INSTALL EQUIPMENT AND SYSTEMS PER CODE AND PER MANUFACTURERS' INSTRUCTIONS.
3. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE. CONTRACTOR TO INSPECT AND VERIFY ALL INFORMATION IN FIELD AND INFORM THE ENGINEERS OF ANY DISCREPANCIES IN WRITING IMMEDIATELY.
5. PIPING MAY BE SHOWN DISPLACED FOR CLARITY.
6. INSTALL ALL PIPING ON WARM SIDE OF BUILDING INSULATION.
7. ALL DRY SPRINKLER PIPING SHALL BE INTERNALLY AND EXTERNALLY GALVANIZED.
8. ALL PIPING SHALL BE 1" UNLESS NOTED OTHERWISE.
9. FPC SHALL EXAMINE ALL SPACES WITHIN BUILDING TO DETERMINE IF ANY ADDITIONAL COMBUSTIBLE VOID SPACES EXIST. NOTIFY ENGINEER IN WRITING OF ANY SUSPECT AREAS.
10. AT DROP CEILINGS, ALL HEADS SHALL BE LOCATED AT CENTER OF TILE UNLESS SPECIFICALLY NOTED OTHERWISE.
11. GC TO PROVIDE REQUIRED FIRESTOPPING. FPC TO PROVIDE GC WITH MARKED-UP PLAN SHOWING PENETRATIONS.

HYDRAULIC SUMMARY TABLE
REMOTE AREA 1 – LIGHT HAZARD AREA
DESIGN AREA: 4 REMOTE HEADS MINIMUM DENSITY: 0.1 GPM/SQ FT
CALCULATED FLOW: 60 GPM @ 30 PSI INCLUDING 100 GPM HOSE ALLOWANCE

1 FP-1.1 SECOND FLOOR FIRE PROTECTION PLAN AT ADDITION
SCALE: 1/8" = 1'-0"

2 FP-1.1 FIRST FLOOR FIRE PROTECTION PLAN AT ADDITION
SCALE: 1/8" = 1'-0"

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PROPOSED FIRE PROTECTION PLANS AT ADDITION

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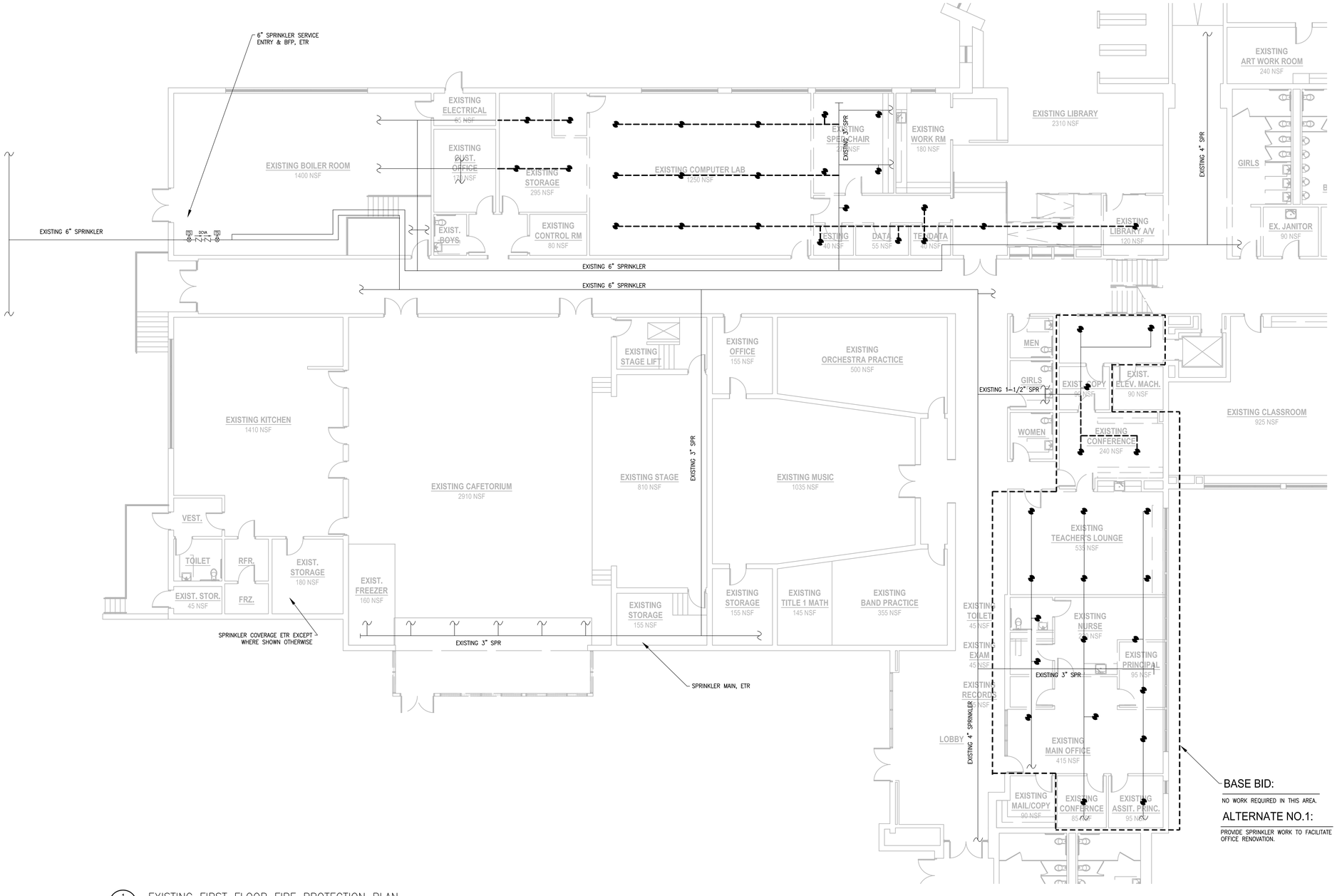

BASE BID:

NO WORK REQUIRED IN THIS AREA.

ALTERNATE NO.1:

PROVIDE SPRINKLER WORK TO FACILITATE OFFICE RENOVATION.

1 / FPX-1.1 EXISTING FIRST FLOOR FIRE PROTECTION PLAN

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

DEMOLITION NOTES:

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8. COORDINATE SEQUENCE OF DEMOLITION AND CONSTRUCTION CAREFULLY WITH GC.

DEMOLITION LEGEND

- - - - - - DEMOLISH & DISPOSE

——— EXISTING TO REMAIN

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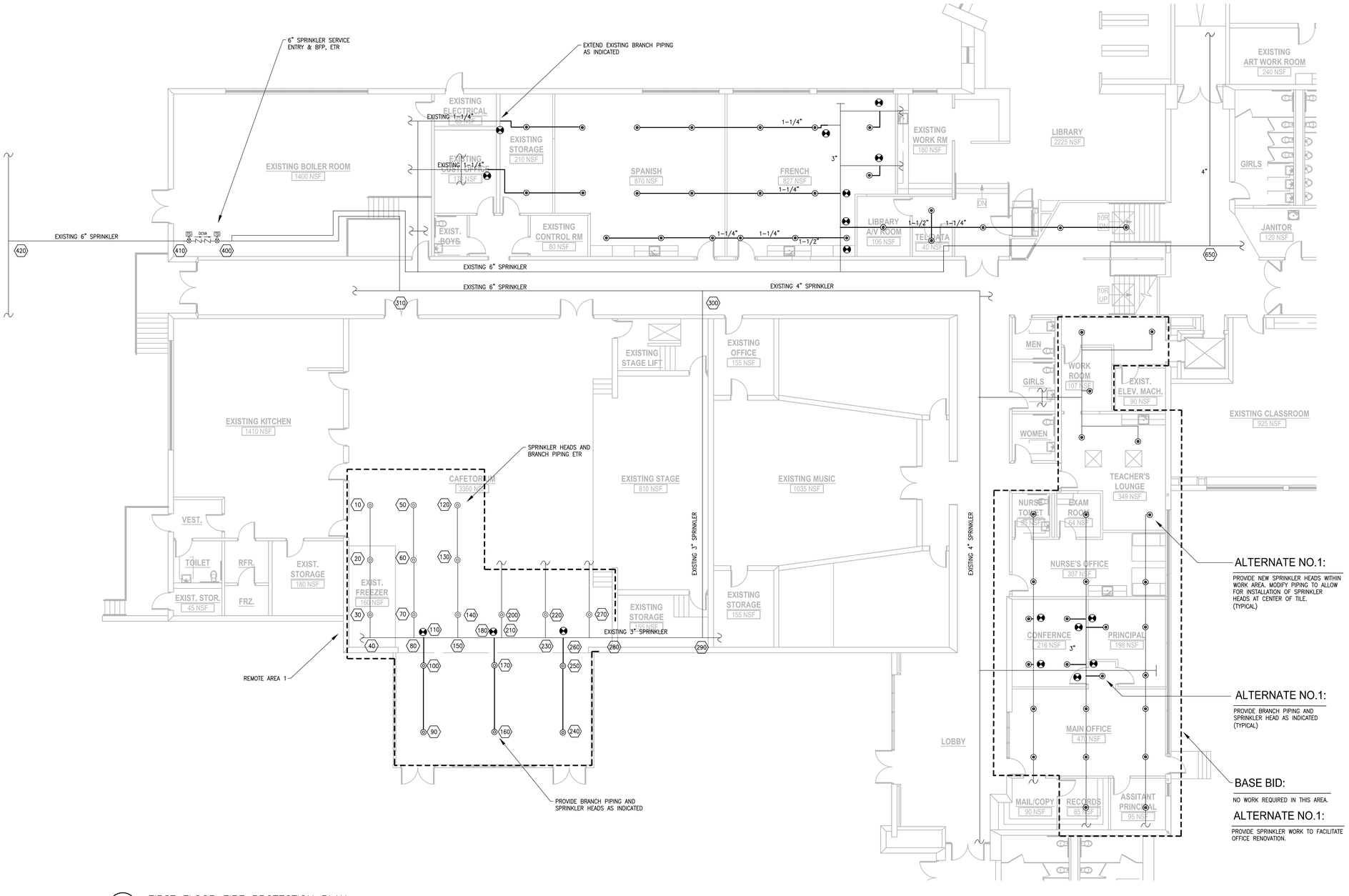
EXISTING FIRST FLOOR FIRE PROTECTION PLAN

TBA PROJECT # 1258

FPX-1.1



1 FP-1.1 FIRST FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

FIRE PROTECTION NOTES:

1. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.
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6. INSTALL ALL PIPING ON WARM SIDE OF BUILDING INSULATION.
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8. ALL PIPING SHALL BE 1" UNLESS NOTED OTHERWISE.
9. FPC SHALL EXAMINE ALL SPACES WITHIN BUILDING TO DETERMINE IF ANY ADDITIONAL COMBUSTIBLE VOID SPACES EXIST. NOTIFY ENGINEER IN WRITING OF ANY SUSPECT AREAS.
10. AT DROP CEILINGS, ALL HEADS SHALL BE LOCATED AT CENTER OF TILE UNLESS SPECIFICALLY NOTED OTHERWISE.
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HYDRAULIC SUMMARY TABLE
REMOTE AREA 1 – LIGHT HAZARD AREA
DESIGN AREA: 4 REMOTE HEADS MINIMUM DENSITY: 0.1 GPM/SQ FT
CALCULATED FLOW: 366 GPM @ 35 PSI INCLUDING 100 GPM HOSE ALLOWANCE

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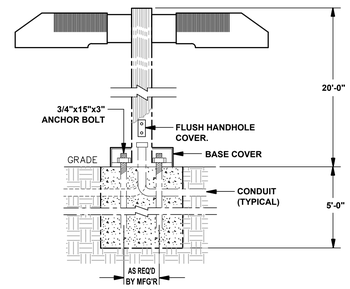
SHEET NAME
FIRST FLOOR FIRE PROTECTION PLAN

TBA PROJECT # 1258

FP-1.1

NOTES:

1. EXTERIOR LIGHTING BRANCH CIRCUIT WIRING SHALL BE 2#8, 1#10(G), 1"C. UNLESS OTHERWISE NOTED.
2. THE FINAL LOCATION OF THE TYPE "F" LIGHTING FIXTURES SHALL BE VERIFIED BY THE ARCHITECT AND CIVIL ENGINEER IN THE FIELD.
3. THE ELECTRICAL CONTRACTOR SHALL WIRE TO EXISTING EXTERIOR LIGHTING BRANCH CIRCUIT. CIRCUIT ORIGINATES FROM PANEL "DP".
4. ALL SITE LIGHTING WORK SHALL BE PERFORMED UNDER ALTERNATE #2.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THE SITE LIGHTING BRANCH CIRCUIT WIRING.
6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE WORK REQUIRED FOR THE ELECTRICAL CONTRACT. THIS SHALL INCLUDE THE TYPE "F" LIGHTING FIXTURE CONCRETE BASES AND CONDUITS UNDER PAVED AREAS.

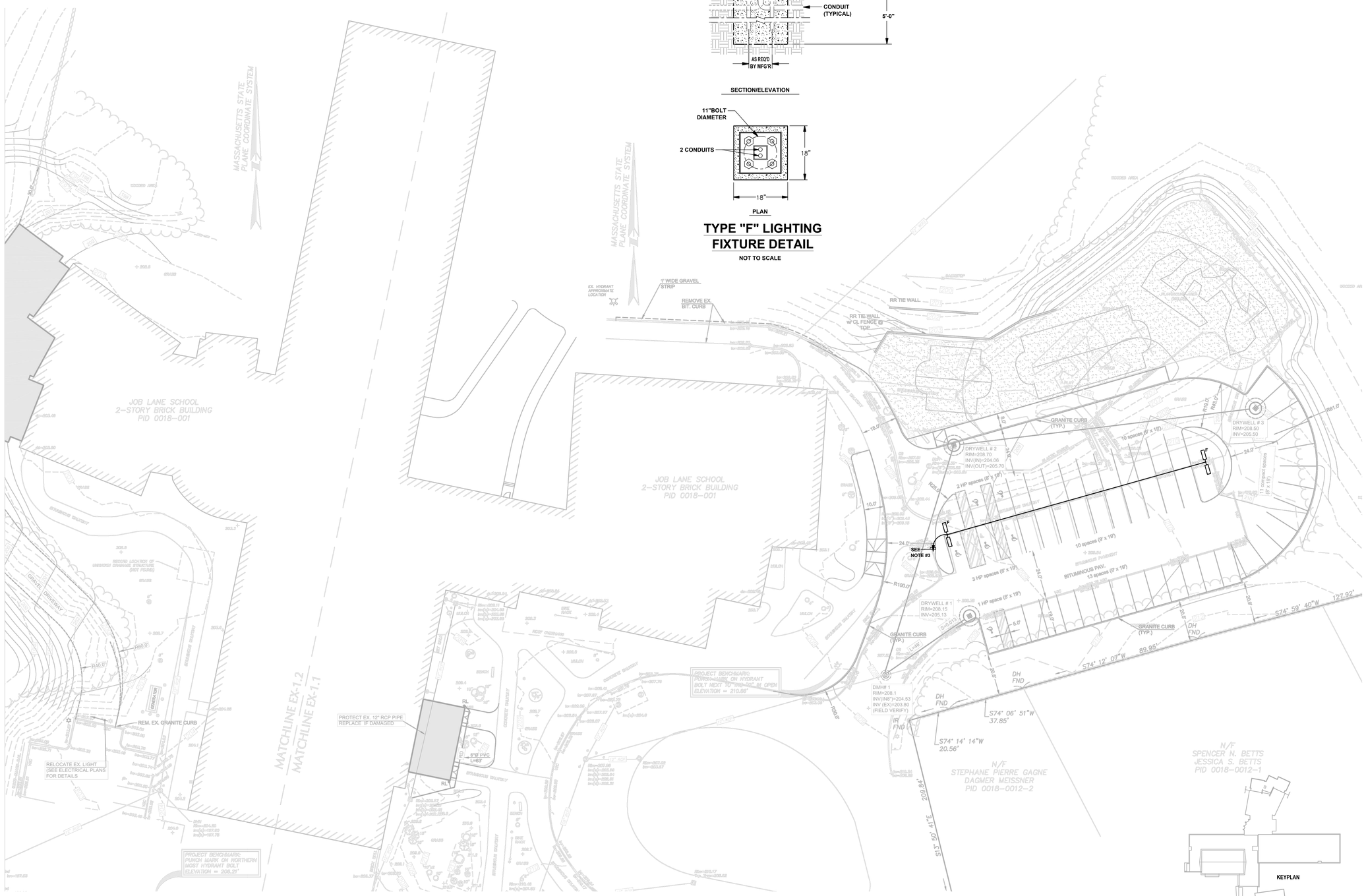


SECTION/ELEVATION

PLAN

TYPE "F" LIGHTING FIXTURE DETAIL

NOT TO SCALE



SITE LIGHTING PLAN

SCALE: 1" = 20'-0"

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SCALE
AS SHOWN

SITE LIGHTING PLAN

TBA PROJECT # 1258

SE-1

NOT FOR CONSTRUCTION

SECOND FLOOR LIGHTING PLAN

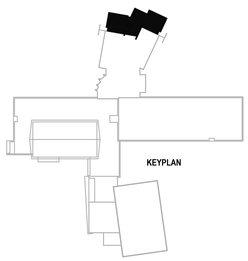
SCALE: 1/8" = 1'-0"

FIRST FLOOR LIGHTING PLAN

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

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. THE ELECTRICAL CONTRACTOR SHALL WIRE TO EXISTING CLASSROOM LIGHTING BRANCH CIRCUIT AHEAD OF ANY LOCAL LIGHTING CONTROLS.
3. THE ELECTRICAL CONTRACTOR SHALL WIRE TO THE EXISTING CORRIDOR LIGHTING BRANCH CIRCUIT.
4. THE ELECTRICAL CONTRACTOR SHALL WIRE TO THE EXISTING CORRIDOR LIGHTING BRANCH CIRCUIT.



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SCALE
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FIRST & SECOND FLOOR LIGHTING PLAN

TBA PROJECT # 1258

E-1.0

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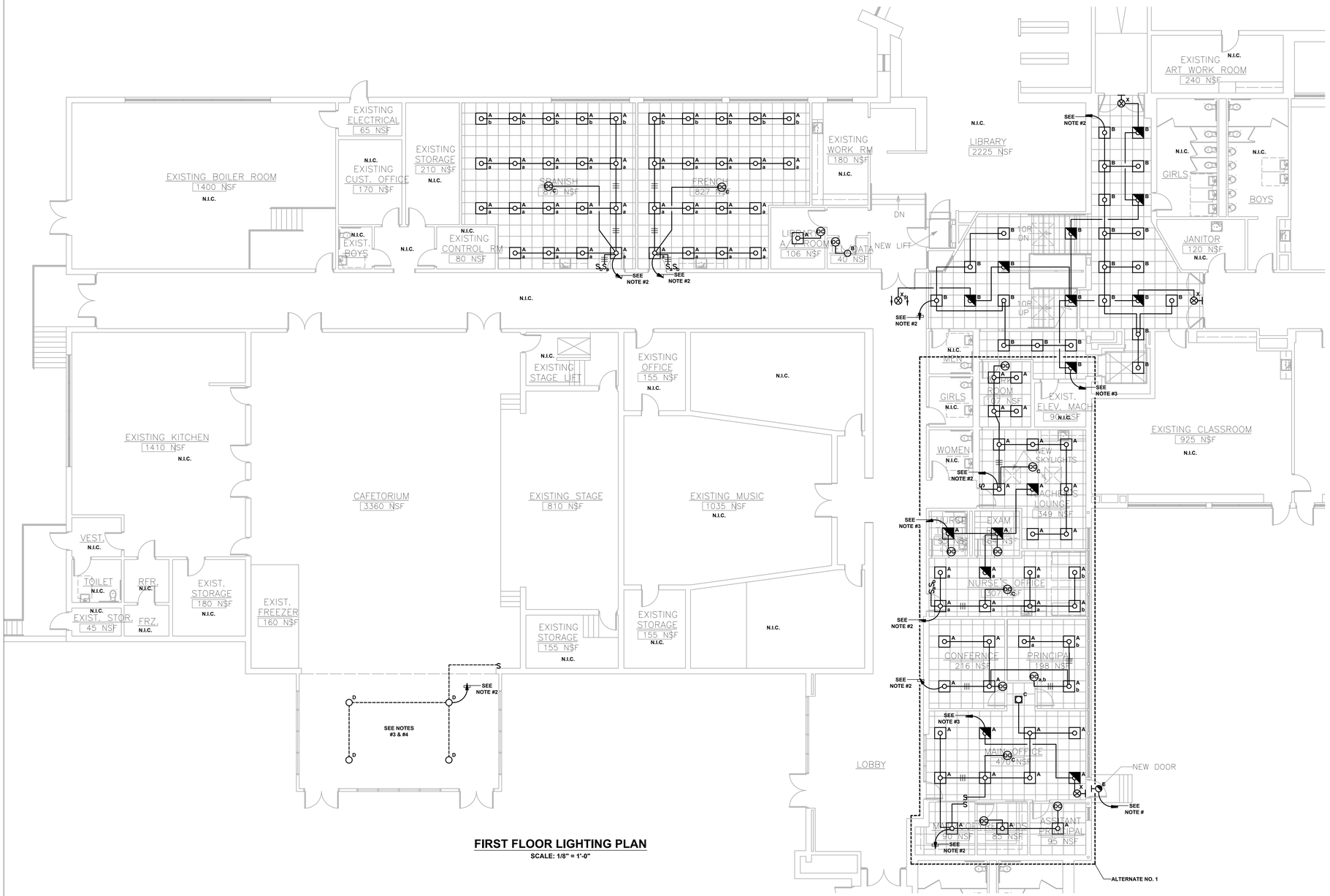

FIRST FLOOR LIGHTING PLAN

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

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. THE ELECTRICAL CONTRACTOR SHALL WIRE TO THE EXISTING LIGHTING BRANCH CIRCUITS SERVING THE AREA AHEAD OF ANY LOCAL LIGHTING CONTROLS.
3. THE ELECTRICAL CONTRACTOR SHALL WIRE TO THE NEAREST CORRIDOR NORMAL/EMERGENCY LIGHTING BRANCH CIRCUIT.
4. THE ELECTRICAL CONTRACTOR SHALL REMOVE THE EXISTING LIGHTING FIXTURES FROM COLUMNS AND INSTALL EXISTING LIGHTING FIXTURES ON NEW PENDANT. PENDANT SHALL BE INSTALLED ON UNCOVERED BOX ALIGNED AT OUTLET BOX. THE FINAL LOCATION OF LIGHTING FIXTURES SHALL BE VERIFIED BY THE ARCHITECT IN THE FIELD.
5. THE ELECTRICAL CONTRACTOR SHALL STATE THE AMOUNT TO BE ADDED TO THE ELECTRICAL CONTRACTOR FOR THE WORK INDICATED IN THE AREA OF ALTERNATE #1.
6. THE ELECTRICAL CONTRACTOR SHALL REFER TO ALTERNATES #1 & #2 FOR ADDITIONAL WORK REQUIRED UNDER THIS CONTRACT.

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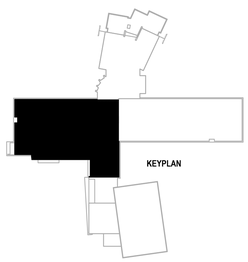
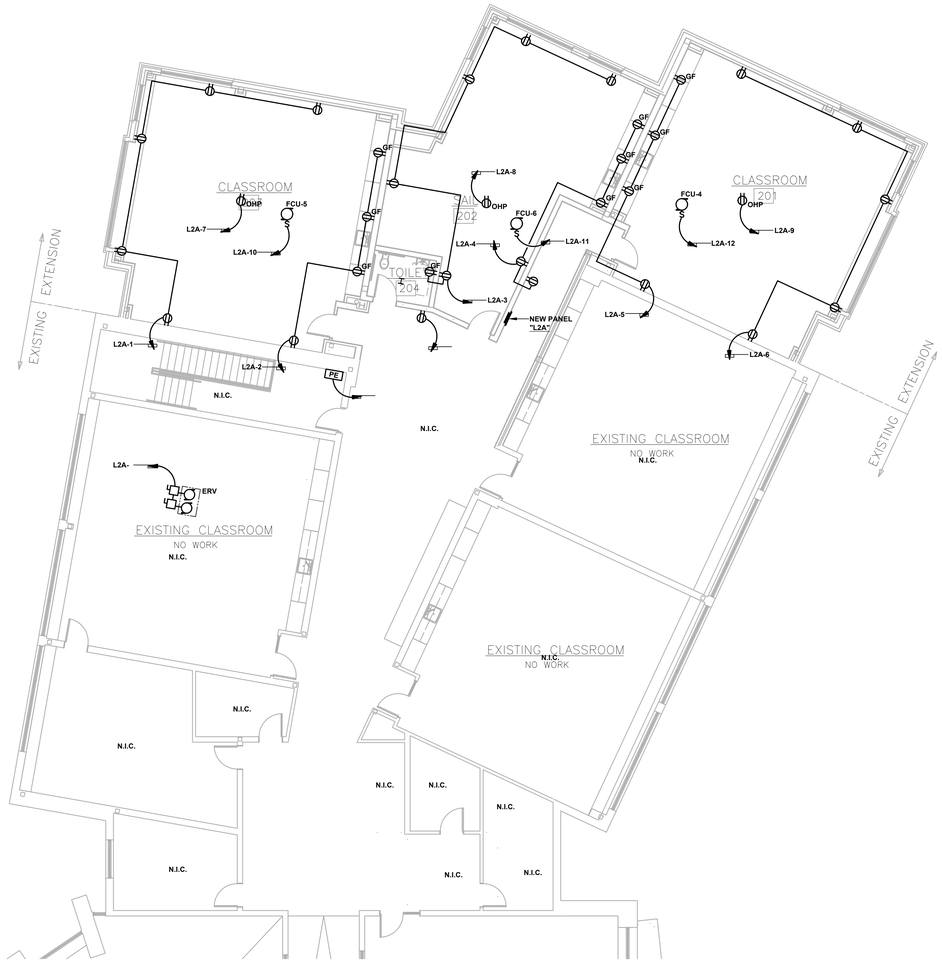
FIRST FLOOR LIGHTING PLAN



TBA PROJECT # 1258

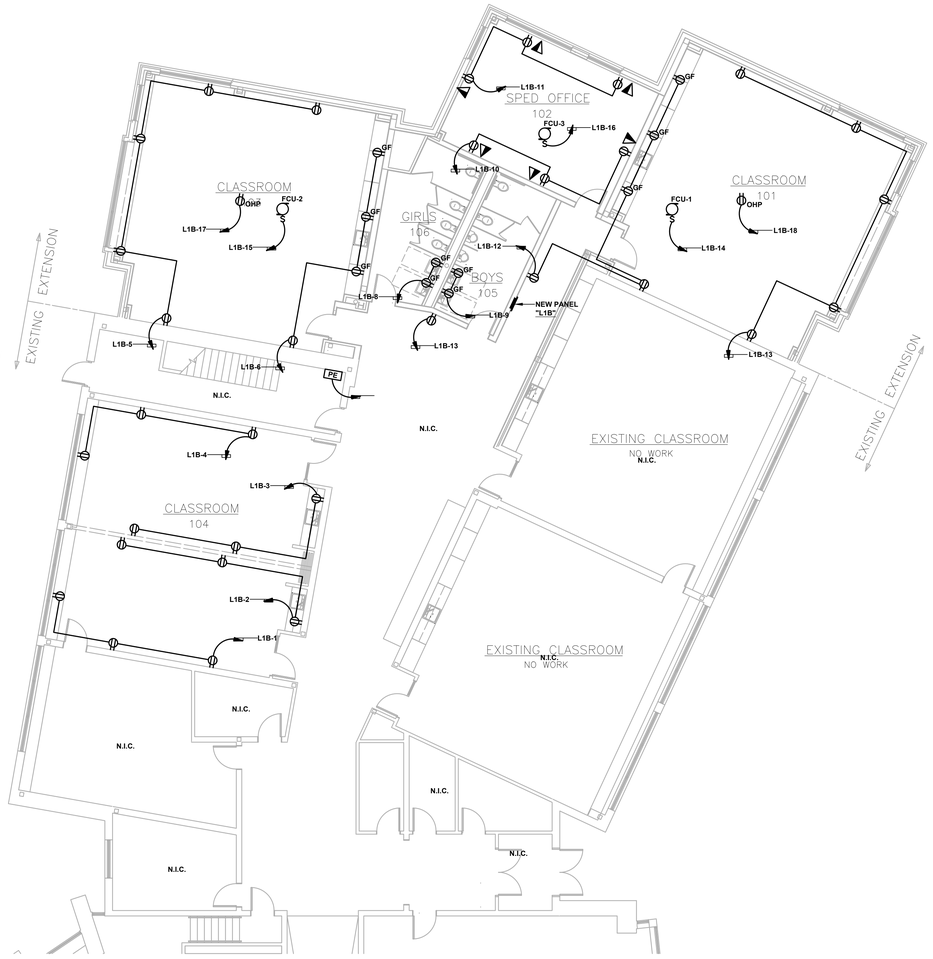
E-1.1

NOT FOR CONSTRUCTION



SECOND FLOOR ELECTRICAL PLAN

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

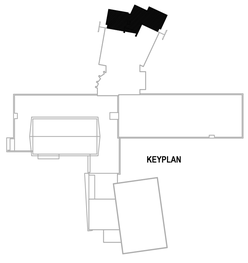


FIRST FLOOR ELECTRICAL PLAN

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

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
2. FEEDERS TO NEW PANELS "L1B" AND "L2A" SHALL BE CONCEALED ABOVE THE HUNG CEILING.



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FIRST & SECOND FLOOR ELECTRICAL PLAN

TBA PROJECT # 1258

E-1.2

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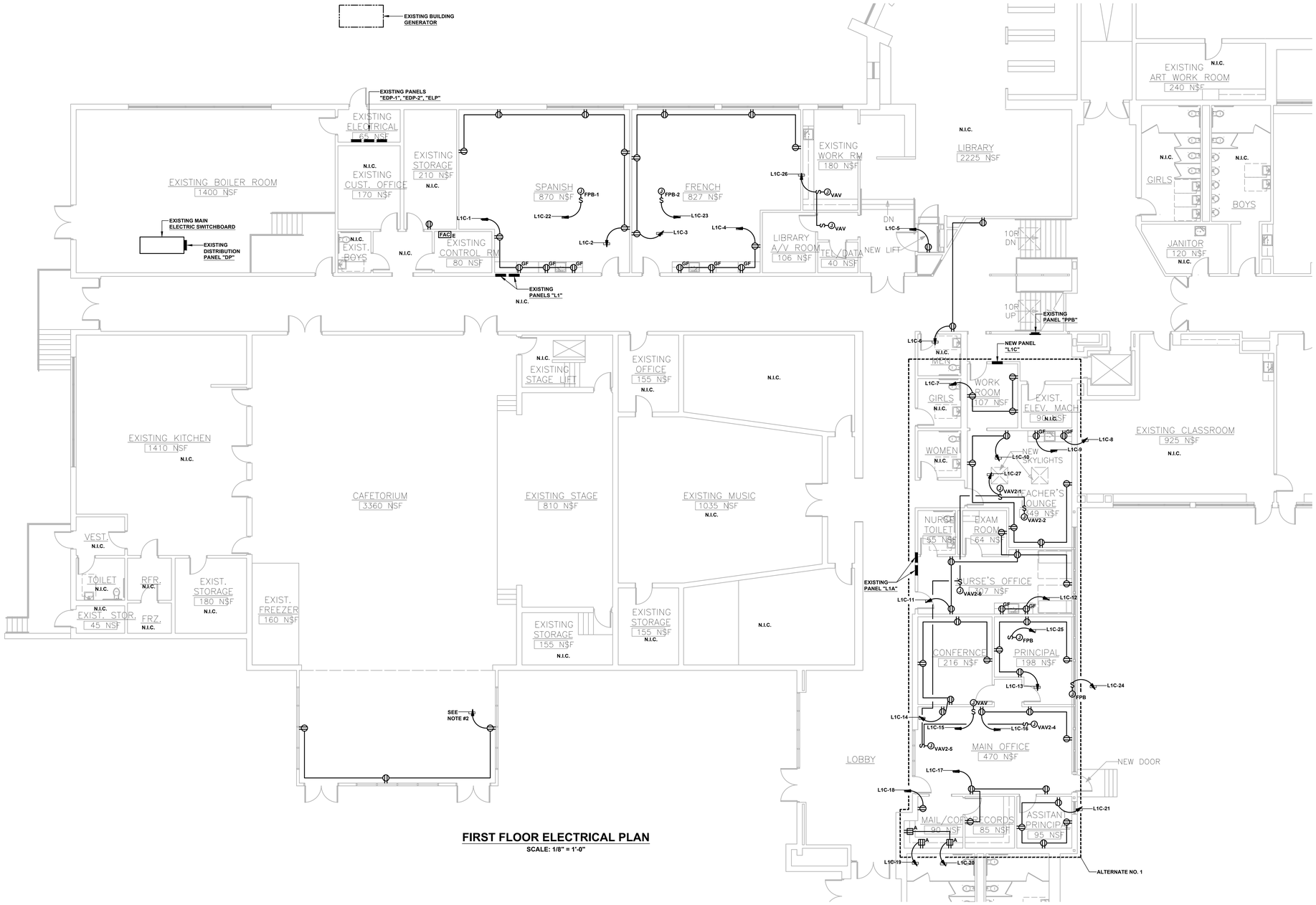

FIRST FLOOR ELECTRICAL PLAN

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

NOTES:

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2. THE ELECTRICAL CONTRACTOR SHALL WIRE TO A SPARE CIRCUIT BREAKER IN EXISTING PANEL "L1".
3. FEEDER TO NEW PANEL "L1B" SHALL BE CONCEALED ABOVE HUNG CEILING.
4. THE ELECTRICAL CONTRACTOR SHALL STATE THE AMOUNT TO BE ADDED TO THE ELECTRICAL CONTRACTOR FOR THE WORK INDICATED IN THE AREA OF ALTERNATE #1.
5. THE ELECTRICAL CONTRACTOR SHALL REFER TO ALTERNATES #1 & #2 FOR ADDITIONAL WORK REQUIRED UNDER THIS CONTRACT.

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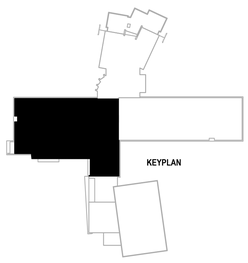
1/8" = 1'-0"

FIRST FLOOR ELECTRICAL PLAN



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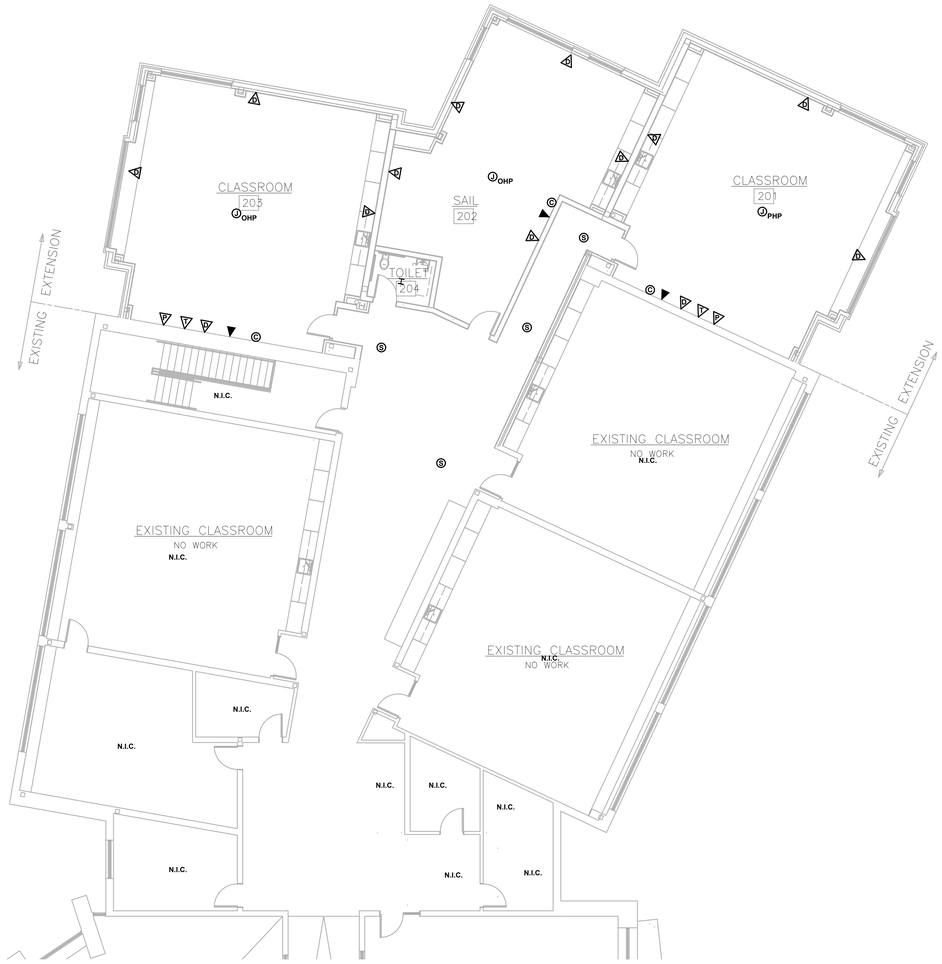
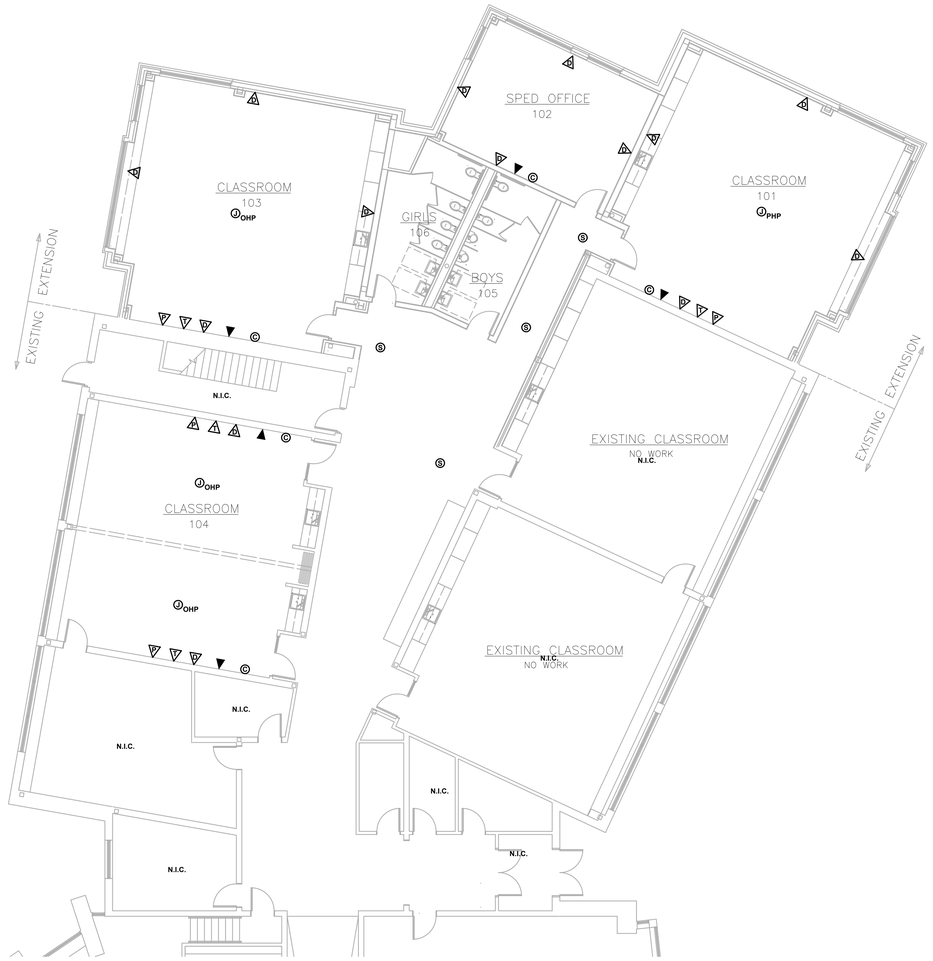


SECOND FLOOR LOW TENSION PLAN

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

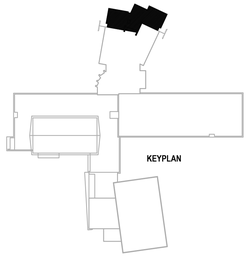


FIRST FLOOR LOW TENSION PLAN

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

NOTES:

1. THE FINAL LOCATION OF SOUND SYSTEM PHONE, DATA OUTLETS, CLOCKS, TELEVISION OUTLETS AND PROJECTORS SHALL BE VERIFIED BY THE ARCHITECT IN THE FIELD.



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FIRST & SECOND FLOOR LOW TENSION PLAN

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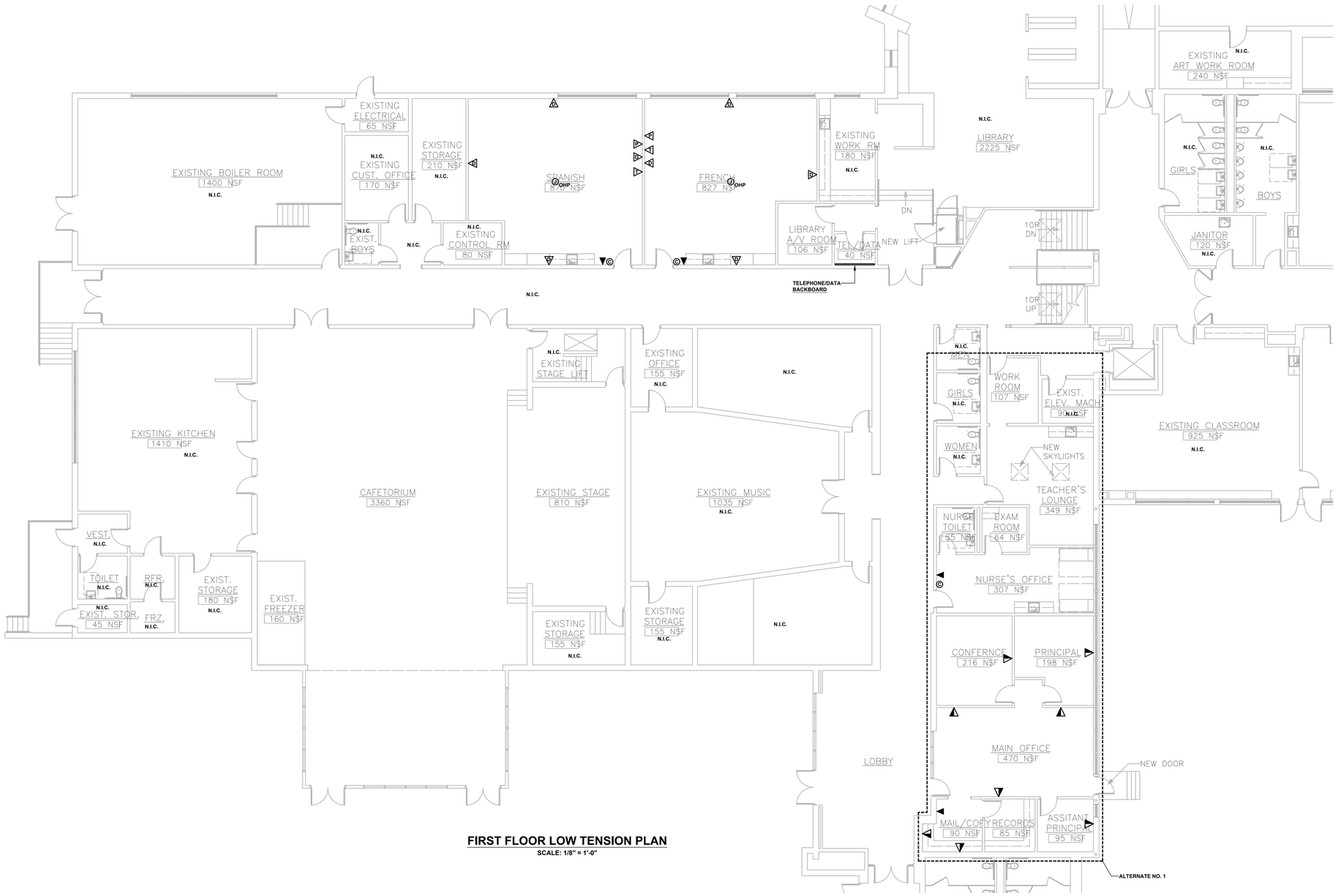
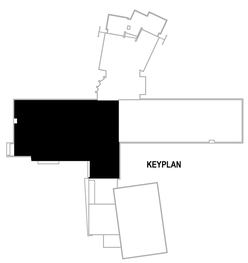


FIRST FLOOR LOW TENSION PLAN

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

NOTES:

1. THE FINAL LOCATION OF SOUND SYSTEM PHONE, DATA OUTLETS, CLOCKS, TELEVISION OUTLETS AND PROJECTORS SHALL BE VERIFIED BY THE ARCHITECT IN THE FIELD.
2. THE ELECTRICAL CONTRACTOR SHALL STATE THE AMOUNT TO BE ADDED TO THE ELECTRICAL CONTRACTOR FOR THE WORK INDICATED IN THE AREA OF ALTERNATE #1.
3. THE ELECTRICAL CONTRACTOR SHALL REFER TO ALTERNATES #1 & #2 FOR ADDITIONAL WORK REQUIRED UNDER THIS CONTRACT.



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FIRST FLOOR LOW TENSION PLAN

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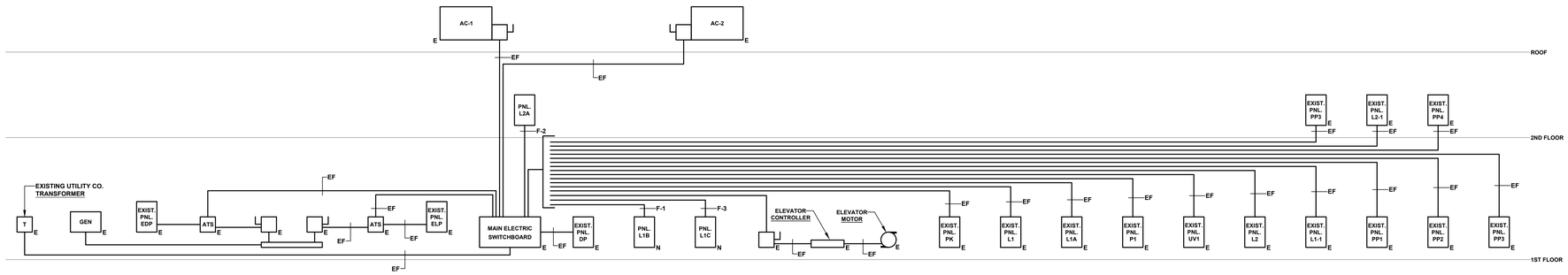
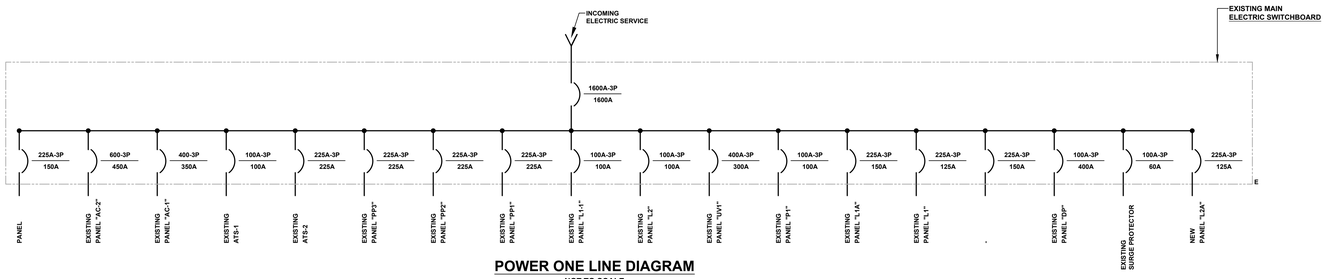
FEEDER SCHEDULE

DESIGNATION	SIZE	GND	CONDUIT SIZE	QUANTITY	BREAKER SIZE AMPS	BREAKER POLE
F-1	4#3	#8	1 1/4"	1	100	3
F-2	4#3	#8	1 1/4"	1	100	3
F-3	4#1	#6	1 1/2"	1	225	3



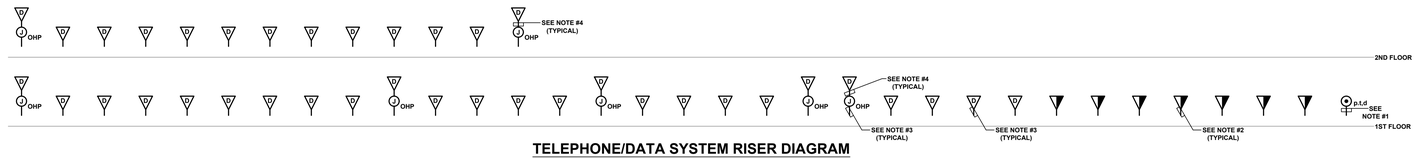
POWER RISER DIAGRAM

NOT TO SCALE



POWER ONE LINE DIAGRAM

NOT TO SCALE



TELEPHONE/DATA SYSTEM RISER DIAGRAM

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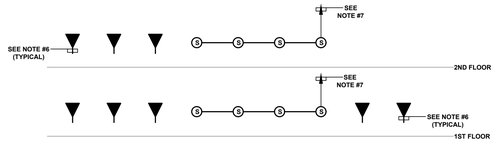

SOUND SYSTEM RISER DIAGRAM

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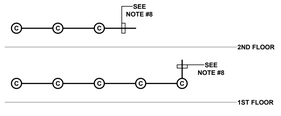
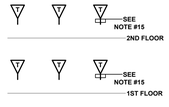


CLOCK SYSTEM RISER DIAGRAM

NOT TO SCALE



TELEVISION SYSTEM RISER DIAGRAM

NOT TO SCALE

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TWO(2) CAT 6 CABLES IN A 3/4" C TO THE FIRST OR SECOND FLOOR TELEPHONE/DATA CLOSET.
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TWO(2) CAT 6 CABLES BETWEEN EACH TELEPHONE/DATA OUTLET AND THE FIRST OR SECOND FLOOR TELEPHONE/DATA CLOSET.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONE(1) CAT 6 CABLE BETWEEN EACH TELEPHONE/DATA OUTLET AND THE FIRST OR SECOND FLOOR TELEPHONE/DATA CLOSET.
4. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONE(1) CAT 6 CABLE BETWEEN EACH TELEPHONE/DATA OUTLET AND THE FIRST OR SECOND FLOOR TELEPHONE/DATA CLOSET.
5. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A "HDMI" CABLE BETWEEN OVERHEAD PROJECTOR OUTLET AND OVERHEAD PROJECTOR CONTROL OUTLET.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE SECOND SYSTEM CABLE IN THE MAIN OFFICE.
7. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE SECOND SYSTEM CABLE TO NEAREST CORRIDOR SECOND SYSTEM SPEAKER.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE CLOCK SYSTEM WIRING TO THE NEAREST CLASSROOM CLOCK SYSTEM CLOCK.
9. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE TELEVISION SYSTEM CABLE TO THE FIRST FLOOR AND SECOND FLOOR TELEVISION SYSTEM TERMINAL CABINET.
10. TELEPHONE AND DATA OUTLET WIRING SHALL BE TERMINATED BY
11. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TWO(2) NEW 125A-3P CIRCUIT BREAKERS IN EXISTING MAIN ELECTRIC SWITCHBOARD FOR NEW PANEL "L-1B" AND "L2A" FEEDERS.
12. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 100 AMPERE-3 POLE CIRCUIT BREAKER IN EXISTING PANEL "DP" FOR NEW PANEL "L1C".
13. NEW FEEDERS TO PANELBOARDS "L1B", "L1C", "L2A" SHALL BE CONCEALED ABOVE HUNG CEILING.
14. THE EXISTING MAIN ELECTRIC SWITCHBOARD IS GENERAL ELECTRIC SPECTRA SERIES.
15. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TELEVISION SYSTEM CABLE BETWEEN TELEVISION SYSTEM OUTLET AND BUILDING CATV SYSTEM SERVICE.

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POWER RISER & POWER ONE LINE DIAGRAM

TBA PROJECT # 1258

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PANEL SCHEDULE

CIRCUIT NUMBER	BREAKERS AMPS	BREAKERS POLES	BREAKERS AIC	EQUIPMENT SERVED
PANEL "L1B" 120/208V 3Ø4W 100 AMPERE MAIN LUGS. SURFACE MOUNTED				
1-13	20	1	10,000	RECEPTACLES
14-16	20	1	10,000	FAN COIL UNITS
17,18	20	1	10,000	OVERHEAD PROJECTOR
19-21	20	1	10,000	LIGHTING
22-30	20	1	10,000	SPARES
PANEL "L1C" 120/208V 3Ø4W 225 AMPERE MAIN LUGS. SURFACE MOUNTED				
1-21	20	1	10,000	RECEPTACLES
22-25	20	1	10,000	FAN COIL UNITS
26	20	1	10,000	VAV BOXES
27-36	20	1	10,000	SPARES
PANEL "L2A" 120/208V 3Ø4W 100 AMPERE MAIN LUGS. SURFACE MOUNTED				
1-6	20	1	10,000	RECEPTACLES
7-9	20	1	10,000	OVERHEAD PROJECTOR
10-12	20	1	10,000	FAN COIL UNITS
13-16	20	1	10,000	LIGHTING
17	20	3	10,000	ERV
18-24	20	1	10,000	SPARES

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MOUNTING	LAMPS WATTS	LAMPS TYPE	FINISH	LOCATION	REMARKS
A	SIMKAR ATA22R3035U1	RECESSED	35W	LED	WHITE	CLASSROOMS	
B	SIMKAR ATA22R2035U1	RECESSED	20W	LED	WHITE	CORRIDORS	
C	PHILLIPS C4L10DL35KCCLWVB	RECESSED		LED	WHITE	CORRIDORS	
D	EXISTING LIGHTING FIXTURES RELOCATED AND REHUNG. LIGHTING FIXTURE SHALL BE CLEANED AND RELAMPED.						
E	HUBBELL LNC7LU4K33PC	WALL	17W	LED	GRAY	EXTERIOR	
F	KIM LIGHTING 2BAR33P7080L3K208BL	POLE	95W	LED	BLACK	EXTERIOR	POLE SHALL BE KIM KRS20-5120-BLK
X	EMERGILITE WWDXN1R	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	
X1	EMERGILITE WWDXN1R-AR	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	
X2	EMERGILITE WWDXN1R-AL	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	
X3	EMERGILITE WWDXN1R-AR/AL	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	
X4	EMERGILITE WWDXN2R	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	
X5	EMERGILITE WWDXN2R-AR-AL	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	
X6	EMERGILITE WWDXN2R-DARL	UNIVERSAL	2.5W	LED	WHITE	PATH OF EGRESS	

LEGEND

- HOMERUN. ARROWS DENOTES THE NUMBER OF CIRCUITS AND SLASH MARKS DENOTE THE NUMBER OF #12 CONDUCTORS IN RACEWAY OR CABLE ASSEMBLY.
- RACEWAY OR CABLE ASSEMBLY INSTALLED CONCEALED.
- RACEWAY INSTALLED EXPOSED.
- SURFACE METAL RACEWAY.
- 12 A b — FLUORESCENT LIGHTING FIXTURE. "A" DENOTES LIGHTING FIXTURE TYPE. SUBSCRIPT "b" DENOTES SWITCH CONTROL LIGHTING FIXTURE. NUMERAL DENOTES CIRCUIT NUMBERS. (TYPICAL ALL LIGHTING FIXTURES).
- LIGHTING FIXTURE WIRED TO THE EMERGENCY SYSTEM.
- SURFACE OR PENDANT MOUNTED DOWNLIGHT.
- WALL MOUNTED LIGHTING FIXTURE.
- RECESSED DOWNLIGHT.
- CEILING OR PENDANT MOUNTED EXIT SIGN. ARROW DENOTES DIRECTION OF TRAVEL.
- WALL OR END MOUNTED EXIT SIGN.
- E — RECESSED EMERGENCY LIGHTING FIXTURE.
- EMERGENCY BATTERY WITH LIGHTING FIXTURES EMERGILITE MODEL ECM18-2-EF23(ZD).
- A — EMERGENCY BATTERY WITH LIGHTING FIXTURES EMERGILITE MODEL ECM27-2-EF23(ZD).
- S — SINGLE POLE SWITCH MOUNTED 4'-0" A.F.F.
- S_3 — THREE WAY SWITCH MOUNTED 4'-0" A.F.F.
- S_4 — FOUR WAY SWITCH MOUNTED 4'-0" A.F.F.
- OC — OCCUPANCY SENSOR. SINGLE SWITCH WALL MOUNTED. WATT STOPPER MODEL WA-200.
- OC C — OCCUPANCY SENSOR (SURFACE MOUNTED). SUBSCRIPT 'C' DENOTES SURFACE MOUNTED ON CEILING. (WATT STOPPER MODEL C1200)
- DUPLEX RECEPTACLE (125 VOLT-1Ø3W RECEPTACLE. MOUNTED 18" A.F.F.
- DOUBLE DUPLEX RECEPTACLE (QUADPLEX) MOUNTED 18" A.F.F.
- WP — WEATHERPROOF DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION MOUNTED 18" A.F.F.
- GF — GROUND FAULT RECEPTACLE MOUNTED 4'-0" A.F.F.
- EWC — ELECTRIC WATER COOLER MOUNTED 18" A.F.F.
- 30A — 250 VOLT- 1Ø3 WIRE RECEPTACLE. NUMBER DENOTES AMPERE RATING (TYPICAL ALL RECEPTACLES) MOUNTED 18" A.F.F.
- 125/250 VOLT - 1Ø4 WIRE RECEPTACLE MOUNTED 18" A.F.F.
- 125/250 VOLT - 3Ø5 WIRE RECEPTACLE MOUNTED 18" A.F.F.
- A — DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER.
- A — QUADPLEX RECEPTACLE MOUNTED 12" ABOVE COUNTER.
- PLUGMOLD.
- DATA OUTLET MOUNTED 18" A.F.F.
- TELEPHONE/DATA OUTLET.
- TELEPHONE OUTLET MOUNTED 18" A.F.F.
- TELEVISION OUTLET MOUNTED 18" A.F.F.
- CATV — CABLE TELEVISION DISTRIBUTION CABINET.
- A 325W — DISCONNECT SWITCH. ALPHA/NUMERIC CHARACTERS DENOTE SWITCH DESIGNATION, POLES, AMPERE RATING OF FUSE. "W" DENOTES WEATHERPROOF SWITCH. (SEE DISCONNECT SWITCH SCHEDULE ON THIS SHEET).
- O — MAGNETIC STARTER (NUMERAL DENOTES SIZE).
- 1 — MOTOR (NUMERAL DENOTES HORSEPOWER).
- EF — EXHAUST FAN
- UH — UNIT HEATER.
- CUH — CABINET UNIT HEATER.
- DH — MAGNETIC DOOR HOLDER.
- ATS — AUTOMATIC TRANSFER SWITCH.
- S — WALL MOUNTED SPEAKER.
- HS — HANDSET.
- MC — MASTER CLOCK.
- C — CLOCK OUTLET.
- J — JUNCTION BOX.
- J — JUNCTION BOX.
- J MD — SECURITY SYSTEM MOTION DETECTOR.
- J A — SECURITY SYSTEM AUDIO DETECTOR.
- DS — SECURITY SYSTEM DOOR SWITCH.
- DIRECT ELECTRICAL CONNECTION. ELECTRICAL CONTRACTOR TO PERMANENTLY CONNECT EQUIPMENT READY FOR OPERATION.
- LIGHTING PANELBOARD (SURFACE MOUNTED). MOUNTED 6'-6" TO TOP.
- T — TRANSFORMER.
- EWH — ELECTRIC WATER HEATER.
- BB — ELECTRIC BASEBOARD HEATER FURNISHED BY THE HVAC CONTRACTOR INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
- PS — POWER SUPPLY.
- E — ELECTRICAL EQUIPMENT OR ELECTRICAL DEVICE WITH SUBSCRIPT "E" DENOTES EXISTING ELECTRICAL DEVICE OR ELECTRICAL EQUIPMENT TO REMAIN.
- EX — ELECTRICAL EQUIPMENT OR ELECTRICAL DEVICE WITH SUBSCRIPT "EX" DENOTES EXISTING ELECTRICAL DEVICE OR ELECTRICAL EQUIPMENT, OUTLET BOX, AND ASSOCIATED BRANCH CIRCUIT WIRING AND RACEWAY TO BE REMOVED.
- ER — ELECTRICAL EQUIPMENT OR ELECTRICAL DEVICE WITH SUBSCRIPT "ER" DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED, NEW BRANCH CIRCUIT WIRING TO BE INSTALLED AND EXISTING ELECTRICAL DEVICE OR ELECTRICAL EQUIPMENT TO BE RE-INSTALLED UNDER THIS CONTRACT.
- EN — ELECTRICAL EQUIPMENT OR ELECTRICAL DEVICE WITH SUBSCRIPT "EN" DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED, NEW BRANCH CIRCUIT WIRING TO BE INSTALLED AND NEW ELECTRICAL EQUIPMENT OR NEW ELECTRICAL DEVICE SHALL BE INSTALLED UNDER THIS CONTRACT.
- EB — ELECTRICAL EQUIPMENT OR ELECTRICAL DEVICE WITH SUBSCRIPT "EB" DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED, EXISTING BRANCH CIRCUIT WIRING TO BE REMOVED AND OUTLET BOX BLANKED UNDER THIS CONTRACT.
- ENR — ELECTRICAL EQUIPMENT OR ELECTRICAL DEVICE WITH SUBSCRIPT "ENR" DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED, NEW BRANCH CIRCUIT WIRING TO BE INSTALLED AND EXISTING ELECTRICAL EQUIPMENT TO BE RE-INSTALLED IN NEW LOCATION AS INDICATED ON THE DRAWING.
- J SB — SMART BOARD JUNCTION BOX.

DISCONNECT SWITCH SCHEDULE

DESIGNATION	SWITCH AMPERE RATING	DESIGNATION	SWITCH AMPERE RATING
A	30A	J	1200A
B	60A	K	1600A
C	100A	L	2000A
D	200A	M	2500A
E	400A	N	3000A
F	600A	P	4000A
G	800A		
H	1000A		

- SB — SMARTBOARD POWER CONNECTION.
- C — DATA OUTLET IN CEILING. (FOR WIRELESS SYSTEM).
- C — RECEPTACLE MOUNTED IN THE CEILING FOR WIRELESS ROUTER.
- "E" — SUBSCRIPT "E" DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNDER THIS CONTRACT.
- "N" — SUBSCRIPT "N" DENOTES NEW ELECTRICAL EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT.
- "EF" — EXISTING FEEDER (TO REMAIN).
- "NIC" — NOT IN CONTRACT.
- EPI — SUMP PUMP ELECTRICAL OUTLET.
- EPO — EMERGENCY POWER OFF SWITCH.
- J VAV — HEATING SYSTEM VAV TERMINAL BOX.
- J FPB — HEATING SYSTEM FAN POWERED TERMINAL BOX.

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LEGEND & SCHEDULES

TBA PROJECT # 1258

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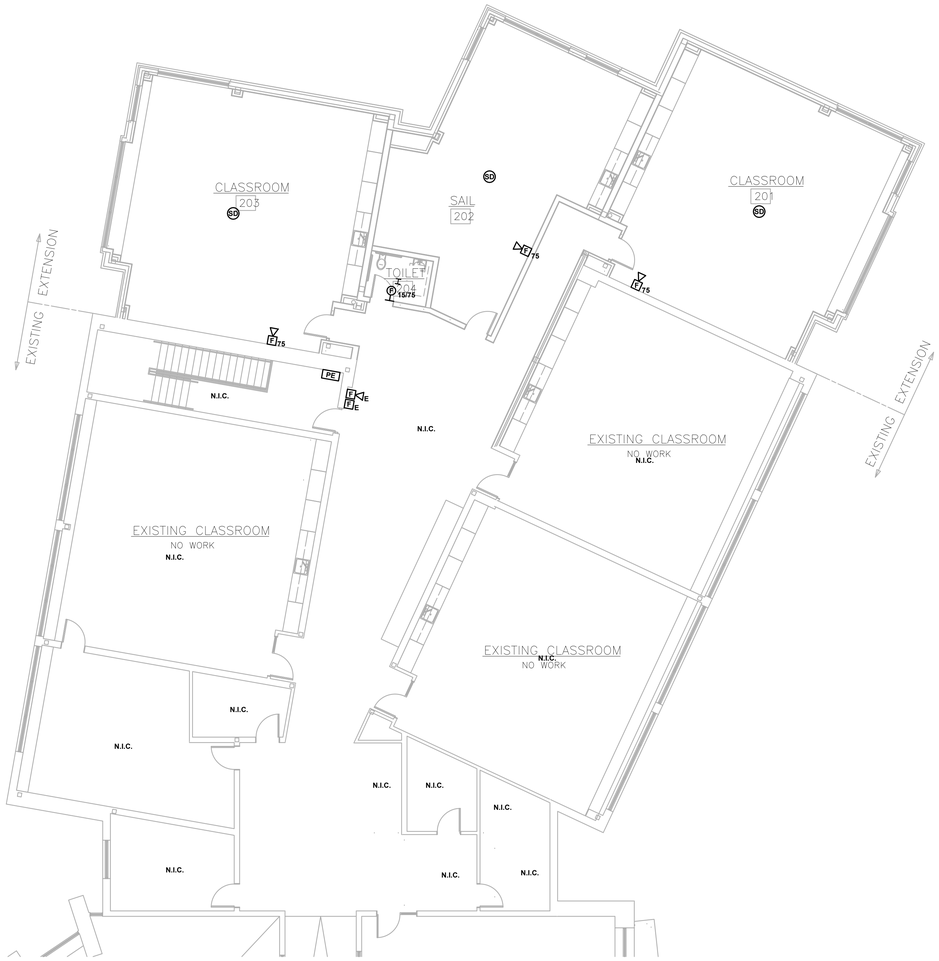
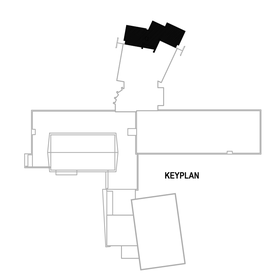


SECOND FLOOR FIRE ALARM PLAN

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

FIRST FLOOR FIRE ALARM PLAN

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



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FIRST & SECOND FLOOR FIRE ALARM PLAN

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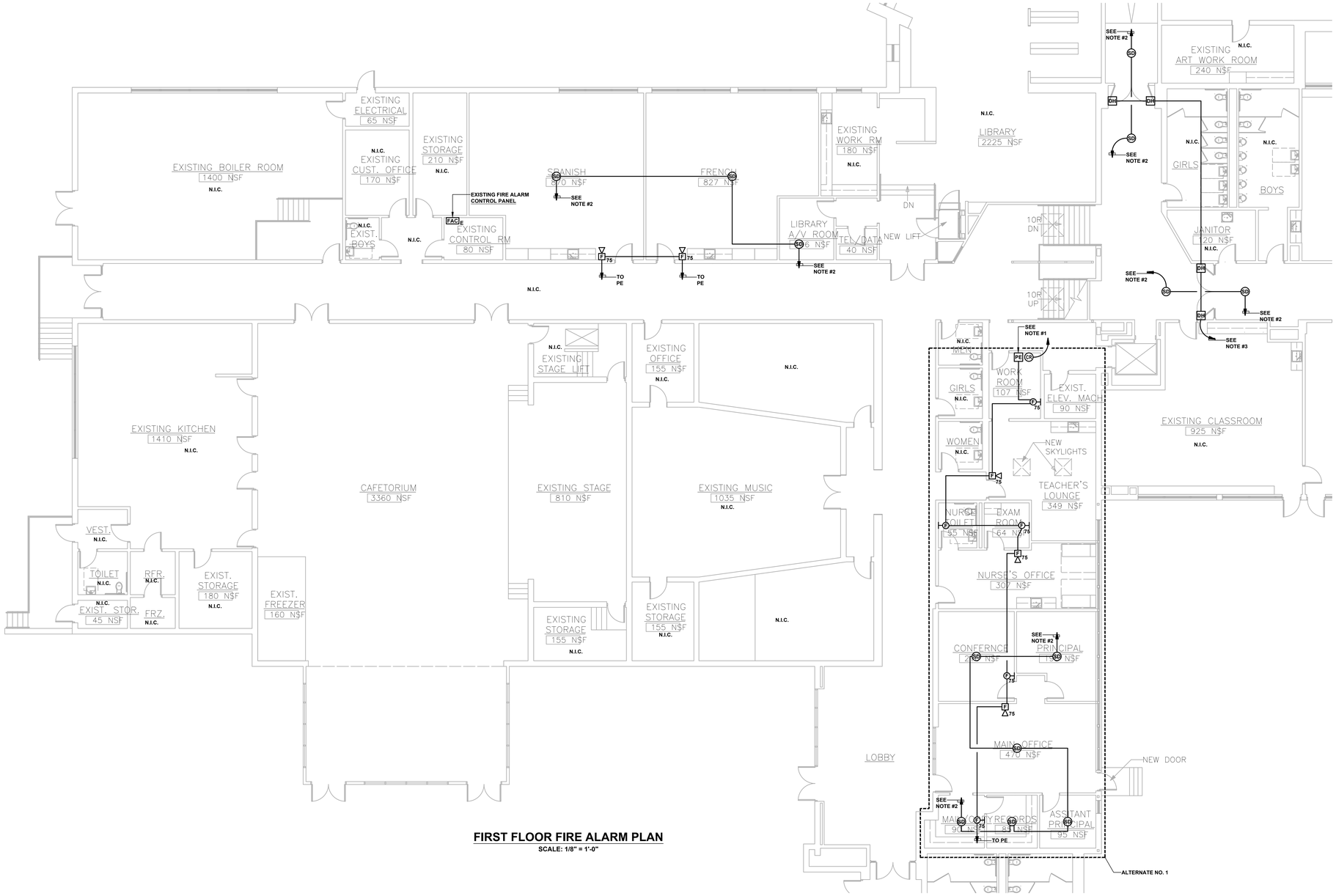


FIRST FLOOR FIRE ALARM PLAN

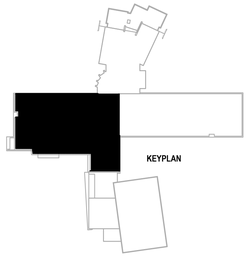
SCALE: 1/8" = 1'-0"

FIRE ALARM SYSTEM LEGEND

P E	EXISTING FIRE ALARM SYSTEM PULL STATION SHALL REMAIN.
F E	EXISTING FIRE ALARM SYSTEM AUDIO VISUAL DEVICES.
F 75	COMBINATION FIRE ALARM HORN & STROBE LIGHT MOUNTED 80". SUBSCRIPT "75" DENOTES THE CANDELA RATING OF THE FIRE ALARM STROBE.
P 75	FIRE ALARM STROBE LIGHT. SUBSCRIPT "A" DENOTES THE CANDELA RATING OF THE FIRE ALARM STROBE . MOUNTED 80" A.F.F.
SD	FIRE ALARM SYSTEM SMOKE DETECTOR.
FAC E	EXISTING FIRE ALARM CONTROL PANEL.
DH	MAGNETIC DOOR HOLDER.
PE	FIRE ALARM SYSTEM POWER EXTENDER
CR	ADDRESSABLE CONTROL RELAY.

NOTES:

1. THE FINAL LOCATION OF THE POWER BOOSTER SHALL BE VERIFIED BY THE ARCHITECT IN THE FIELD.
2. THE ELECTRICAL CONTRACTOR SHALL WIRE TO A CORRIDOR SMOKE DETECTOR. NO "TEE" TAP SHALL BE ALLOWED.
3. THE ELECTRICAL CONTRACTOR SHALL WIRE TO CIRCUIT THRU FIRE ALARM SYSTEM CONTROL RELAY.
4. THE EXISTING FIRE ALARM CONTROL PANEL IS A FIRE CONTROL INSTRUMENTS FC7200 ADDRESSABLE FIRE ALARM CONTROL PANEL.
5. ALL FIRE ALARM SYSTEM WIRING SHALL BE CONCEALED.
6. THE ELECTRICAL CONTRACTOR SHALL STATE THE AMOUNT TO BE ADDED TO THE ELECTRICAL CONTRACTOR FOR THE WORK INDICATED IN THE AREA OF ALTERNATE #1.
7. THE ELECTRICAL CONTRACTOR SHALL REFER TO ALTERNATES #1 & #2 FOR ADDITIONAL WORK REQUIRED UNDER THIS CONTRACT.



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REVISIONS

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SCALE
1/8" = 1'-0"

FIRST FLOOR FIRE ALARM PLAN

TBA PROJECT # 1258

FA-1.1

NOT FOR CONSTRUCTION