

DUNELAND SCHOOL CORPORATION

2015 JACKSON ELEMENTARY SCHOOL RENOVATIONS

JACKSON ELEMENTARY SCHOOL 811 N. 400 E., VALPARAISO, IN 46383
TRIA PROJECT#: 15-008

GENERAL BUILDING CODE REQUIREMENTS

BUILDING CODES REFERENCED:
2012 INTERNATIONAL BUILDING CODE WITH 2014 INDIANA AMENDMENTS
2006 INTERNATIONAL PLUMBING CODE 2ND EDITION AMENDED INDIANA 2012
2008 NATIONAL ELECTRICAL CODE WITH INDIANA AMENDMENTS
2012 INTERNATIONAL MECHANICAL CODE WITH 2014 INDIANA AMENDMENTS
INDIANA ENERGY CONSERVATION CODE 2010
2012 INTERNATIONAL FIRE CODE WITH 2014 INDIANA AMENDMENTS
INDIANA SUPPLEMENTARY FIRE SAFETY RULES
2012 INTERNATIONAL FUEL GAS CODE WITH 2014 INDIANA AMENDMENTS

OCCUPANCY CLASSIFICATION:
EDUCATIONAL GROUP E

TYPE OF CONSTRUCTION:
III-B

DESIGN FIRM REGISTRATION:
THOMAS R. SZURGOT
INDIANA LICENSE NUMBER: *A10800173

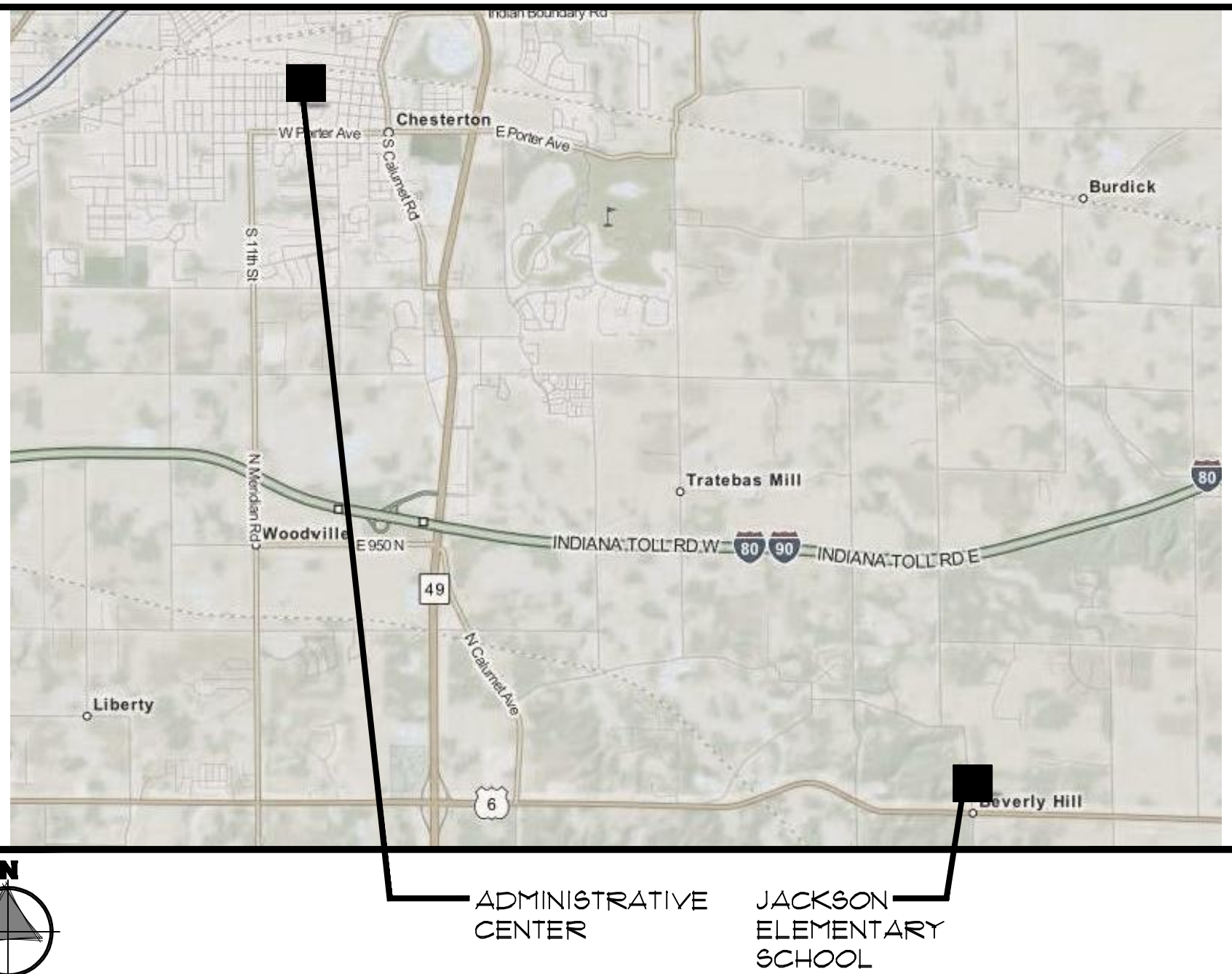
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DRAWING INDEX

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SITE LOCATION MAP



SITE PLAN



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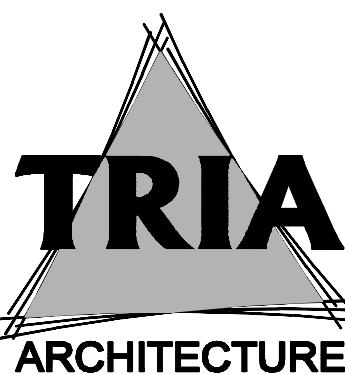
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APRIL 20, 2015

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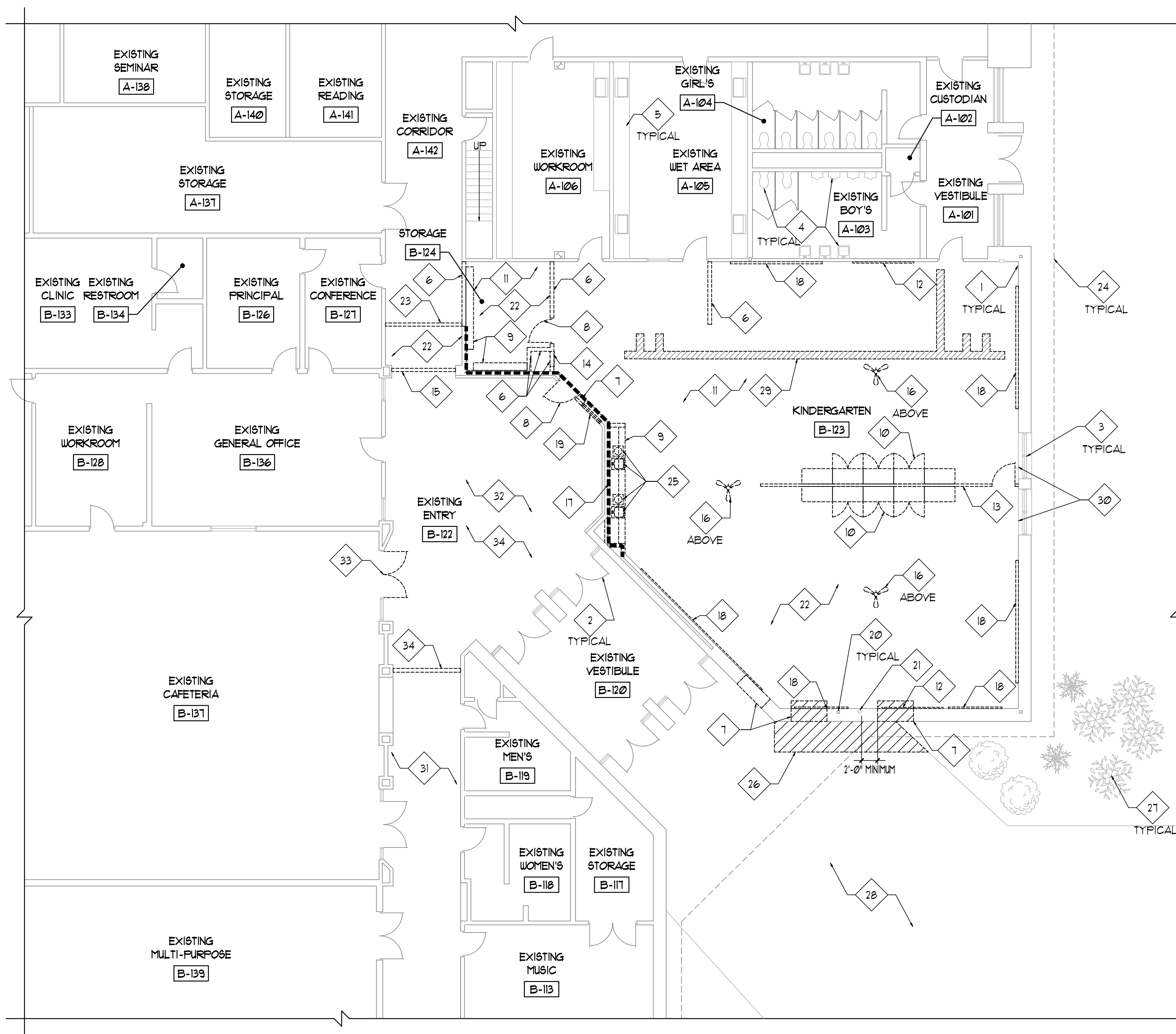
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REVISIONS:

T1.00





1 EXISTING PARTIAL FLOOR PLAN
1/8"=1'-0"

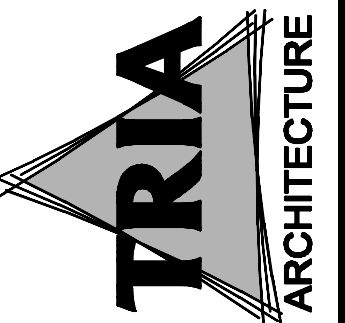
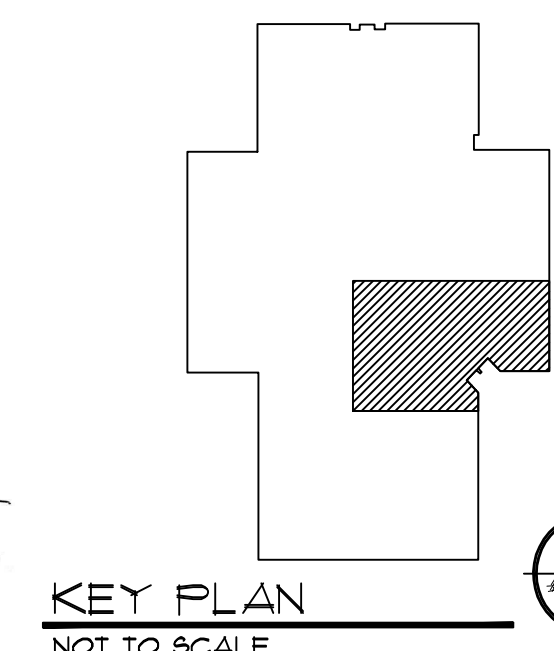


EXISTING PLAN GENERAL NOTES

1. REFER TO FLOOR PLANS FOR SCOPE OF NEW WORK.
2. FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT THAT AN ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM. ITEMS SHOWN ARE INDICATED TO GIVE A GENERAL SCOPE OF WORK. ANY ITEMS REQUIRING REMOVAL/DEMOLITION TO PROPERLY PERFORM CONTRACT WORK BUT NOT SPECIFICALLY SHOWN, SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST, PROVIDING THE CONDITION WAS VISIBLE DURING BIDDING.
3. SHORE OR BRACE ALL EXISTING CONSTRUCTION AS REQUIRED TO PERFORM DEMOLITION WORK.
4. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, INFILLING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING, AND REFINISHING SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION.
5. REMOVE ALL EQUIPMENT LOCATED ON OR WITHIN WALL CONSTRUCTION SCHEDULED TO BE REMOVED, SO AS TO NOT DISRUPT EXISTING BUILDING OPERATIONS. DISCONNECT ALL ELECTRICAL WIRING, FULL WIRE BACK TO NEAREST JUNCTION BOX OR TO SERVICE.
6. PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND ADJACENT WORK NOT SCHEDULED TO BE REMOVED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED FINISHES, EQUIPMENT, OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
7. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ANY MATERIAL, EQUIPMENT OR FIXTURE TO BE REMOVED.
8. EXISTING FLOOR FINISH TO REMAIN, UNLESS NOTED OTHERWISE.
9. WHERE POSSIBLE - RUN NEW ELECTRICAL WORK INSIDE WALL AND CEILING CONSTRUCTION (NEW AND EXISTING) - REMOVE EXISTING WALL/CEILING CONSTRUCTION SCHEDULED TO REMAIN AS REQUIRED TO PERFORM WORK INDICATED - PATCH ALL CONSTRUCTION TO PROVIDE A FINISHED CONDITION.
10. AT ALL EXISTING GRASS AREAS, LANDSCAPING ITEMS OR CONCRETE/ASPHALT SURFACES TO REMAIN - PROTECT DURING CONSTRUCTION AND REPAIR ANY AREAS DAMAGED OR OTHERWISE AFFECTED DURING CONSTRUCTION.
11. REMOVE AND RELOCATE ALL ACCESSORIES ON WALL CONSTRUCTION TO BE REMOVED.
12. GENERAL CONTRACTOR TO COORDINATE ALL ARCHITECTURAL WORK WITH INDICATED STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK - NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
13. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS, LINTELS AND PAINTING REQUIRED.
14. EXISTING CEILINGS TO REMAIN UNLESS NOTED OTHERWISE.
15. AT ALL LOCATIONS WHERE NEW WALL CONSTRUCTION IS SCHEDULED TIE INTO EXISTING WALL CONSTRUCTION - REMOVE EXISTING WALL CONSTRUCTION TO THE EXTENT REQUIRED TO PROVIDE WORK INDICATED - REFER TO FLOOR PLAN ON SHEET A110.
16. EXISTING CEILING TO BE MODIFIED AS REQUIRED TO PROVIDE WORK INDICATED.

EXISTING PLAN REFERENCED NOTES

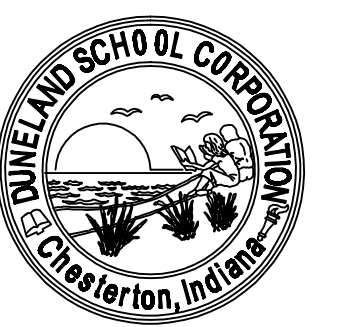
1. EXISTING WALL CONSTRUCTION TO REMAIN.
2. EXISTING DOOR AND FRAME TO REMAIN.
3. EXISTING WINDOW AND GLAZING SYSTEM TO REMAIN.
4. EXISTING PLUMBING EQUIPMENT TO REMAIN.
5. EXISTING CASEWORK TO REMAIN.
6. EXISTING WALL CONSTRUCTION TO BE REMOVED TO THE EXTENT REQUIRED TO PROVIDE WORK INDICATED - REFER TO FLOOR PLANS AND MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
7. EXISTING MULTIPLE WYTHE MASONRY AND METAL STUD WALL CONSTRUCTION TO BE REMOVED/MODIFIED TO THE EXTENT REQUIRED TO PROVIDE WORK INDICATED - REFER TO FLOOR PLANS AND MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
8. EXISTING DOOR FRAME, LINTEL AND ALL ACCESSORIES TO BE REMOVED IN THEIR ENTIRETY.
9. EXISTING CASEWORK AND ALL ACCESSORIES TO BE REMOVED IN THEIR ENTIRETY.
10. EXISTING CASEWORK AND COUNTERTOPS TO BE REMOVED - STORE AND PROTECT ALL FOR REINSTALLATION - REFER TO FLOOR PLANS.
11. EXISTING FLOOR FINISH AND ASSOCIATED WALL BASE TO BE REMOVED IN ITS ENTIRETY - PREPARE FLOOR/WALL TO RECEIVE NEW FINISH.
12. EXISTING MARKER BOARD TO BE REMOVED - STORE AND PROTECT FOR REINSTALLATION - CLEAN, SCRAPE AND PREP EXISTING GYPSUM BOARD (BEHIND) FOR NEW FINISH.
13. EXISTING PARTITION WALL, DOOR, ACCESSORIES AND STRUCTURE TO BE REMOVED IN ITS ENTIRETY.
14. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED.
15. EXISTING OVERHEAD ROLLING GRILLE, FRAME AND ALL ACCESSORIES TO BE REMOVED.
16. EXISTING CEILING FAN TO BE REMOVED - STORE AND PROTECT FOR REINSTALLATION.
17. DASHED LINE INDICATES EXISTING GYPSUM BOARD, METAL STUDS, ETC. TO BE REMOVED DOWN TO EXISTING CONCRETE MASONRY UNIT WALL CONSTRUCTION - CLEAN/SCRAPE AND PREP WALL FOR NEW FINISH.
18. EXISTING TACKABLE SURFACE AND FRAME TO BE REMOVED - CLEAN, SCRAPE AND PREP EXISTING GYPSUM BOARD (BEHIND) FOR NEW WORK.
19. EXISTING WINDOW AND LINTEL TO BE REMOVED IN THEIR ENTIRETY.
20. EXISTING COLUMN TO REMAIN.
21. EXISTING ROOF CONDUCTOR/DRAIN TO REMAIN.
22. EXISTING CEILING SYSTEM TO BE REMOVED. EXISTING LIGHTS TO BE REMOVED - STORE AND PROTECT FOR REINSTALLATION AS REQUIRED TO PROVIDE WORK INDICATED - REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
23. EXISTING FLOOR FINISH AND BASE TO BE REMOVED ONLY AS REQUIRED TO PROVIDE WORK INDICATED.
24. LINE OF EXISTING EXTERIOR SOFFIT.
25. EXISTING PLUMBING EQUIPMENT TO BE REMOVED.
26. EXISTING CONCRETE WALK TO BE REMOVED TO THE EXTENT REQUIRED TO PROVIDE WORK INDICATED.
27. EXISTING LANDSCAPING TO REMAIN - PROTECT DURING CONSTRUCTION.
28. EXISTING CONCRETE WALK TO REMAIN - ANY DAMAGE MADE DURING CONSTRUCTION MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
29. SAUCUT EXISTING SLAB AS REQUIRED TO PROVIDE WORK INDICATED - REFER TO PLUMBING DRAWINGS FOR COMPLETE SCOPE.
30. EXISTING SLOPED WINDOW SILL, CARPET AND BLOCKING BELOW TO BE REMOVED DOWN TO STUDS - ENTIRE WIDTH OF WINDOW.
31. EXISTING TERRAZZO FLOOR TO REMAIN - PROTECT DURING CONSTRUCTION.
32. EXISTING BRICK PAVEMENT FLOOR TO REMAIN - PROTECT DURING CONSTRUCTION.
33. EXISTING PAIR OF DOORS TO BE REMOVED - EXISTING FRAME TO REMAIN - SALVAGE EXISTING HARDWARE - STORE AND PROTECT FOR REINSTALLATION - REFER TO HARDWARE SET IN SPECIFICATIONS FOR MORE INFORMATION.
34. EXISTING CEILING TO BE MODIFIED AS REQUIRED TO PROVIDE WORK INDICATED.



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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008
PROJECT NAME: JACKSON
DRAWN BY: JTG
ISSUED FOR BIDDING: 04/02/2015
PARTIAL EXISTING FIRST FLOOR PLAN



A0.10

GYPSUM BOARD TYPE NOTE

AT ALL AREAS OF NEW GYPSUM BOARD INSTALLATION -
PROVIDE IMPACT RESISTANT GYPSUM BOARD UP TO 8'-0"
ABOVE FINISHED FLOOR. PROVIDE REGULAR GYPSUM
BOARD ABOVE 8'-0".

FLOOR PLAN GENERAL NOTES

1. VERIFY EXACT DIMENSIONS OF ALL EXISTING CONDITIONS IN FIELD.
2. ALL CONTRACTORS SHALL REPORT ALL DISCREPANCIES OR DIMENSIONAL QUESTIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
3. REFER TO PROJECT MANUAL FOR PRODUCTS, MATERIALS, PROCEDURES AND ADDITIONAL INFORMATION NOT COVERED IN DRAWINGS.
4. PROTECT ALL EXISTING FINISHES, EQUIPMENT, AND ADJACENT WORK FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED FINISHES, EQUIPMENT, OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
5. PATCH EXISTING CONSTRUCTION AT ALL LOCATIONS OF ITEMS SCHEDULED TO BE REMOVED. FINISH TO MATCH ADJACENT SURFACES IN MATERIAL AND TEXTURE (NEW AND EXISTING).
6. PATCH AND SMOOTH EXISTING FLOOR AS REQUIRED TO INSTALL NEW FLOOR FINISH.
7. AT ALL FLOOR SLABS TO RECEIVE FLOOR FINISH, CONTRACTOR SHALL GRIND HIGH SPOTS, FILL DEPRESSIONS AND INFILL ANY UNUSED PENETRATIONS IN THE FLOOR SLAB WITH A MATERIAL SUITABLE TO THE FLOORING MANUFACTURER. ALL CRACKS LARGER THAN 1/8" ARE TO BE GROUND OUT AND FILLED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE LINTELS ABOVE ALL DOORS, PENETRATIONS, LOUVERS, ETC. IN MASONRY WALLS - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL LINTEL LOCATIONS REQUIRED DUE TO DUCT PENETRATIONS, ETC.
9. PATCH, PAINT, AND CLEAN EXISTING WALLS, FLOORS, AND CEILINGS AT ITEMS SCHEDULED TO BE REMOVED.
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
11. REMOVE EXISTING WALL CONSTRUCTION AS REQUIRED TO INSTALL MECHANICAL, PLUMBING, AND ELECTRICAL WORK - PATCH WALLS AT REMOVED MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT TO BE REMOVED.
12. WHERE POSSIBLE - RUN NEW ELECTRICAL WORK INSIDE WALL AND CEILING CONSTRUCTION (NEW AND EXISTING) - PATCH CONSTRUCTION AS REQUIRED TO PROVIDE WORK INDICATED.
13. VERIFY EXACT LOCATIONS OF EXISTING STRUCTURE, DUCTWORK AND OTHER OBSTRUCTIONS BELOW EXISTING SLAB AT ALL PLUMBING PENETRATIONS PRIOR TO START OF WALL CONSTRUCTION WITHIN ROOM.
14. CUT, CORE AND PATCH SLABS (NEW AND EXISTING) AS REQUIRED TO INSTALL PLUMBING, MECHANICAL AND ELECTRICAL WORK.
15. AT ALL NEW WINDOW AND DOOR OPENINGS, TOOTH-IN NEW MASONRY UNITS AT JAMB CONDITIONS TO PROVIDE A FINISHED APPEARANCE.
16. CONTRACTOR TO PATCH ALL HOLES IN EXISTING WALLS OF ROOMS TO BE FIRE RATED - FINISH TO MATCH EXISTING ADJACENT WALL CONSTRUCTION. AT RATED WALL CONSTRUCTION, PATCH WITH APPROPRIATE MATERIAL TO PROVIDE CONTINUITY OF FIRE RATING - REFER TO SHEET A0601.

LINTEL SCHEDULE

LINTEL NOTES

1. LOOSE LINTELS FOR NON-LOAD BEARING WALLS SHALL HAVE A MINIMUM END BEARING OF 8" AND SHALL BE THE FOLLOWING SIZES, UNLESS NOTED OTHERWISE (LINTEL SIZES GIVEN ARE FOR NEW MASONRY CONSTRUCTION ONLY - SPANS NOTED ARE CLEAR SPANS):

6" WALLS:	
UP TO 4'-0" SPAN	2-L3½"x2½"x⅝" LLV
4'-0" TO 6'-4" SPAN	2-L3½"x2½"x⅝" LLV
4", 8", & 12" WALLS (1-L FOR EACH 4" OF WALL THICKNESS):	
UP TO 4'-0" SPAN	L3½"x3½"x⅝"
OVER 4'-0" TO 6'-0"	L5x3½"x⅝" LLV
OVER 6'-0" TO 8'-0"	L6x3½"x⅝" LLV
10" WALLS:	
UP TO 4'-0" SPAN	(2) L5x3½"x⅝" SLV
OVER 4'-0" TO 6'-0"	(2) L5x5x⅝"
OVER 6'-0" TO 8'-0"	(2) L5x5x⅝"
ALL WALLS	
OVER 8'-0" TO 12'-0"	W8x18 + ⅝" R ON BOTTOM (R TO BE ½" LESS THAN WALL WIDTH)

2. PLATES ON LINTELS SHALL BE SHOP WELDED TO MEMBER W/ ¼"x2" FILLET WELDS AT 12" O.C. STAGGERED.
3. WELD TOGETHER ALL BACK-TO-BACK ANGLES.
4. CONTRACTOR SHALL COORDINATE ALL REQUIRED OPENINGS IN NON-LOAD BEARING MASONRY WALLS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

FLOOR PLAN REFERENCED NOTES

(NOT ALL NOTES WILL BE REFERENCED ON ALL SHEETS)

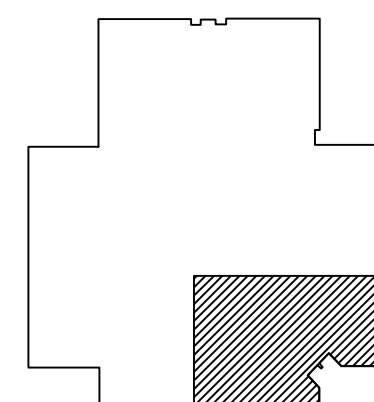
1. EXISTING WALL CONSTRUCTION.
2. EXISTING DOOR AND FRAME.
3. EXISTING WINDOW AND GLAZING.
4. EXISTING PLUMBING EQUIPMENT.
5. EXISTING CASEWORK.
6. PATCH OPENING WHERE EXISTING WALL CONSTRUCTION WAS REMOVED - MATCH ADJACENT WALL CONSTRUCTION IN MATERIAL, THICKNESS, TEXTURE AND COLOR.
7. LOCATION OF AUTOMATIC OPERATOR PUSH BUTTON - REFER TO ELECTRICAL DRAWINGS.
8. CASEWORK.
9. LOCATION OF EXISTING CASEWORK SCHEDULED TO BE REINSTALLED.
10. EXISTING ROOF CONDUCTOR/DRAIN.
11. DIRECT GLUED BULLETIN BOARD CORK AND METAL FRAME OVER EXISTING GYPSUM WALL CONSTRUCTION - REFER TO DETAIL 9/A601 FOR MORE INFORMATION.
12. PLUMBING EQUIPMENT - REFER TO PLUMBING DRAWINGS.
13. DISPLAY CASE.
14. EXISTING COLUMN.
15. STORAGE SYSTEM CASEWORK - PROVIDE DIRECT GLUED BULLETIN BOARD CORK AND METAL FRAME ABOVE - REFER TO DETAILS 2 AND 4 ON SHEET A601.
16. LINE OF EXISTING SOFFIT.
17. EXISTING LANDSCAPING.
18. EXISTING CONCRETE WALKWAY.
19. INFILL EXISTING CONCRETE SLAB - MATCH ADJACENT SLAB IN CONSTRUCTION, MINIMUM 4" THICKNESS - PROVIDE 12" #4 DOWELS - EMBED DOWELS 6" INTO EXISTING SLAB STAGGERED.
20. CONCRETE STEEP - MINIMUM 4" THICK - MATCH EXISTING ADJACENT IN COLOR AND TEXTURE - PROVIDE CONCRETE WITH MINIMUM F.C. = 4.5 KSI AND 5% +/- ENTRAINED AIR.
21. PROVIDE CORNER GUARD.
22. PROVIDE GALVANIZED STEEL RAIN DIVERTER ABOVE INDICATED EXTERIOR DOOR.

LEGEND

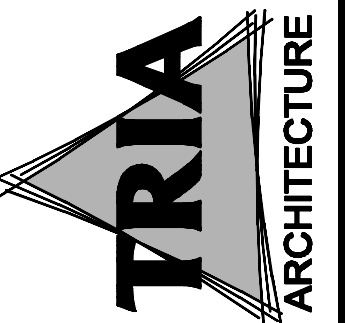
CJ	CONTROL JOINT
EJ	EXPANSION JOINT
EX FEC	EXISTING FIRE EXTINGUISHER CABINET
FEC	FIRE EXTINGUISHER CABINET
FCO	FLOOR CLEAN OUT - REFER TO PLUMBING DRAWINGS
EX MB	EXISTING MARKER BOARD SCHEDULED TO BE REINSTALLED - COORDINATE EXACT LOCATION WITH OWNER IN FIELD
OH	OPPOSITE HAND
TB	TACK BOARD - 4' x 8'
TB2	RACK BOARD - 4' x 6'
V.I.F.	VERIFY IN FIELD



Expires 12/1/2015



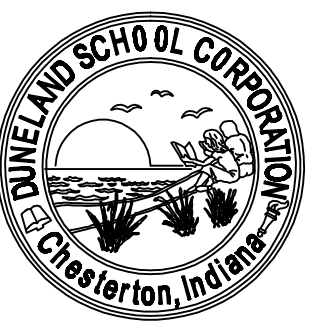
KEY PLAN
NOT TO SCALE



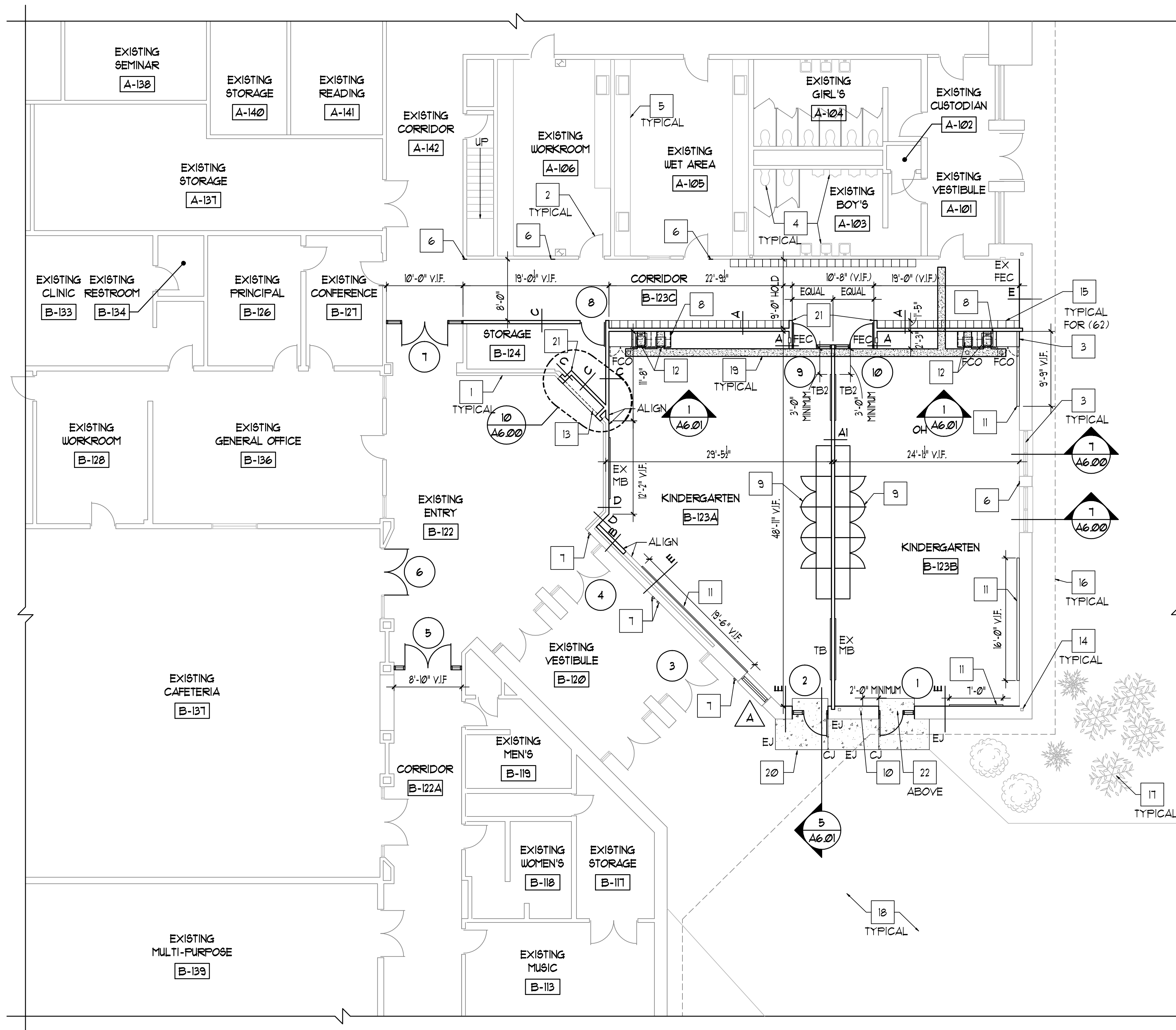
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2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	DATE: 12/1/2015
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ISSUED FOR BIDDING: 04/02/2015	DATE: 04/02/2015
PARTIAL FIRST FLOOR PLAN	



A1.10



1 PARTIAL FLOOR PLAN
1/8"=1'-0"



DOOR AND FRAME SCHEDULE																			
OPN'G NO.	DOOR						FRAME						DETAILS				COMMENTS		ROOM SIGNAGE (BY OWNER)
	SIZE		TYPE	MAT'L	HDLR SET	PROT. RATING HOURS	SIZE		TYPE	MAT'L	PROT. RATING HOURS	REF. NOTES	HEAD	JAMB	JAMB	SILL	LOCATION		
	WIDTH	HEIGHT					WIDTH	HEIGHT											
1	3'-0"	7'-0"	A	ALUM	1	-	4'-8"	7'-4"	D	ALUM	-	2	3/A6.00	2/A6.00	2/A6.00	4/A6.00	KINDERGARTEN B-123B	-	
2	3'-0"	7'-0"	A	ALUM	1	-	4'-8"	7'-4"	D	ALUM	-	2	3/A6.00	2/A6.00	2/A6.00	4/A6.00	KINDERGARTEN B-123A	-	
3	ETR	ETR	ETR	ETR	6	ETR	ETR	ETR	ETR	ETR	ETR	3	-	-	-	-	EXISTING VESTIBULE B-120	-	
4	ETR	ETR	ETR	ETR	6	ETR	ETR	ETR	ETR	ETR	ETR	3	-	-	-	-	EXISTING VESTIBULE B-120	-	
5	PAIR 3'-0"	7'-0"	D	ALUM	2	-	8'-10" V.I.F.	9'-0" V.I.F.	C	ALUM	-	1, 4	9/A6.00	5/A6.00	6/A6.00	-	EXISTING ENTRY B-122	-	
6	PAIR 3'-0" V.I.F.	7'-0" V.I.F.	E	ALUM	3	-	ETR	ETR	ETR	ETR	ETR	1, 5	-	-	-	-	EXISTING CAFETERIA B-131	-	
7	PAIR 3'-0"	7'-0"	D	ALUM	2	-	10'-0" V.I.F.	9'-0" V.I.F.	C	ALUM	-	1, 4	9/A6.00	5/A6.00	6/A6.00	-	EXISTING ENTRY B-122	-	
8	3'-0"	7'-0"	C	WD	4	3/4	3'-4"	7'-2"	A	HM	3/4	-	1/A6.00	1/A6.00	1/A6.00	-	STORAGE B-124	Y	
9	3'-0"	7'-0"	B	WD	5	-	5'-2"	7'-2"	B	HM	-	-	1/A6.00	1/A6.00	1/A6.00	-	KINDERGARTEN B-123A	Y	
10	3'-0"	7'-0"	B	WD	5	-	5'-2"	7'-2"	B	HM	-	-	1/A6.00	1/A6.00	1/A6.00	-	KINDERGARTEN B-123B	Y	

DOOR AND FRAME REFERENCE NOTES

1. DOOR/FRAME LOCATION TO RECEIVE ELECTRIC DOOR STRIKE - REFER TO ELECTRICAL DRAWINGS.

2. PROVIDE FULL-WEATHER-STRIPPING

3. EXISTING DOOR TO RECEIVE AUTOMATIC DOOR OPERATOR AND PUSH BUTTON - REFER TO ELECTRICAL DRAWINGS.

4. DOOR AND FRAME IN EXISTING SPACE. VERIFY DIMENSIONS IN FIELD PRIOR TO FABRICATION.

5. DOOR IN EXISTING FRAME. VERIFY DIMENSIONS IN FIELD PRIOR TO FABRICATION.

DOOR AND FRAME ABBREVIATIONS

ALUM

ETR

HM

ME

SIM

WD

ALUMINUM

EXISTING TO REMAIN

HOLLOW METAL

MATCH EXISTING

SIMILAR

WOOD

DOOR AND FRAME GENERAL NOTES

1. REFER TO WALL TYPES FOR WALL CONSTRUCTION AT DOOR LOCATIONS.

2. REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF HARDWARE SETS.

3. GROUT JAMBS SOLID AT ALL FRAMES INSTALLED IN MASONRY OPENINGS.

4. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.

5. VERIFY DIMENSIONS OF ALL DOORS AND FRAMES TO BE INSTALLED IN EXISTING WALL OPENINGS PRIOR TO SUBMITTING SHOP DRAWINGS.

6. HEIGHT OF DOOR OPERATING HARDWARE SHALL BE NO LESS THAN 34" AND NO MORE THAN 48" ABOVE FINISHED FLOOR. COORDINATE EXACT HEIGHT WITH OWNER AND ARCHITECT.

7. DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

8. DOOR OPERATING FORCE SHALL NOT EXCEED: EXTERIOR HINGED DOORS: 8.5 LB
INTERIOR HINGED DOORS: 5 LB

9. ALL EGRESS DOORS ARE TO UTILIZE KEYLESS LOCKETS ON THE EGRESS SIDE. NO FLUSH BOLTS, DEAD OR DRAW BOLTS, ETC. WILL BE ALLOWED.

10. AT ALL OPENINGS SCHEDULED TO RECEIVE WORK - DIMPLE FRAMES, COUNTERSINK ANCHORS, BONDO, SAND AND PAINT ALL FRAMES (NEW AND EXISTING).

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ROOM FINISH SCHEDULE									
ROOM NO.	ROOM NAME	WALL				CEILING	FLOORING	WALL BASE	REFERENCED NOTES
		NORTH	EAST	SOUTH	WEST				
FIRST FLOOR									
B-122	EXISTING ENTRY	ETR	EX FB GYP (PT)	ETR	ETR	ETR	ETR	ETR / VNL	I
B-123C	CORRIDOR	EX GYP (PT) TS	GYP	GYP (PT) TS	ETR	ETR/SAT	ETR/VCT	VNL	-
B-123A	KINDERGARTEN	GYP (PT)	GYP (PT)	GYP (PT) TS	GYP (PT)	SAT	CPT / VCT	VNL	-
B-123B	KINDERGARTEN	GYP (PT)	GYP (PT) / TS EX WC (PT)	GYP (PT) TS	GYP (PT)	SAT	CPT / VCT	VNL	-
B-124	STORAGE	GYP (PT)	GYP (PT)	EX CMU (PT)	EX CMU (PT)	GYP (PT)	VCT	VNL	-

ROOM FINISH GENERAL NOTES	
1.	PAINT ALL WALL SURFACES IMMEDIATELY ADJACENT TO AREAS AFFECTED BY CONSTRUCTION (INCLUDING EXISTING) UNLESS NOTED OTHERWISE.
2.	PAINT ALL PLASTER AND GYPSUM BOARD CEILINGS AND SOFFITS IMMEDIATELY ADJACENT TO AREAS AFFECTED BY CONSTRUCTION (INCLUDING EXISTING) - UNLESS NOTED OTHERWISE.
3.	DO NOT PAINT PREFINISHED ITEMS, FACE BRICK, AND TILE FINISHES.
4.	VERIFY CARPET TILE PATTERNS WITH ARCHITECT PRIOR TO BEGINNING WORK.
5.	PROVIDE WALL BASE AT ALL LOCATIONS OF NEW FLOOR FINISH OR NEW WALL CONSTRUCTION - UNLESS NOTED OTHERWISE.
6.	PAINT ALL EXPOSED SURFACES OF ALL NEW WALL CONSTRUCTION.
7.	IN ALL AREAS OF WORK WHERE FINISHES ARE NOTED AS "EXISTING TO REMAIN" - REMOVE AND/OR REPAIR ALL DAMAGED MATERIALS WITHIN 2'-0" OF THE WORK INDICATED - REPLACE ALL TILE IN WHOLE UNITS - MATCH EXISTING MATERIAL IN FINISH, TEXTURE AND COLOR.
8.	AT ALL DOORS AND FRAMES INSTALLED IN EXISTING OPENINGS - PATCH AND PAINT EXISTING WALL, JAMB AND HEAD SURFACES AFTER FRAME INSTALLATION - DO NOT PAINT PREFINISHED ITEMS.

ROOM FINISH REFERENCED NOTES	
1.	PROVIDE WALL BASE AT AREA OF NEW WORK ONLY - MATCH ADJACENT WHERE APPLICABLE.

ROOM FINISH ABBREVIATIONS	
CMU	CONCRETE MASONRY UNITS
CPT	CARPET
ETR	EXISTING TO REMAIN
EX	EXISTING
GYP	GYPSUM BOARD
PT	PAINT ALL EXPOSED SURFACES (NEW AND EXISTING) WHERE INDICATED
SAT	SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
TS	TACKABLE SURFACE
VCT	VINYL COMPOSITE TILE
VNL	VINYL WALL BASE
WC	WALL COVERING

PLASTIC LAMINATE CASEWORK SCHEDULE				
UNIT NO.	DIMENSIONS			REMARKS
	HEIGHT	WIDTH	DEPTH	
BASE CABINET				
B1	24"	30"	24"	COORDINATE HEIGHT REQUIRED TO PROVIDE CHILDREN'S HEIGHT ADA DRINKING FOUNTAIN
B2	84"	36"	24"	
END PANEL				
E1	24"	24"	-	INSTALL AS NEEDED IN FIELD
E2	36"	24"	-	
FILLER PANEL				
F1	VARIES	VARIES	-	INSTALL AS NEEDED IN FIELD
UPPER CABINET				
U1	36"	30"	12"	
STORAGE SYSTEM				
C1	60"	12"	12"	

CASEWORK GENERAL NOTES	
1.	ALL INTERIOR SHELVES TO BE ADJUSTABLE - TYPICAL.
2.	ON ALL EXPOSED AND SEMI-EXPOSED SURFACES INCLUDING EXPOSED ENDS OF CASEWORK UNITS - PROVIDE FINISH TO MATCH CASEWORK.
3.	BASE CABINET HEIGHT IS TO THE UNDERSIDE OF COUNTERTOP.
4.	PROVIDE SOLID SURFACE COUNTERTOP ON ALL BASE CABINETS UNLESS NOTED OTHERWISE. VERIFY DIMENSIONS IN FIELD.

DUNELAND SCHOOL CORPORATION

2015

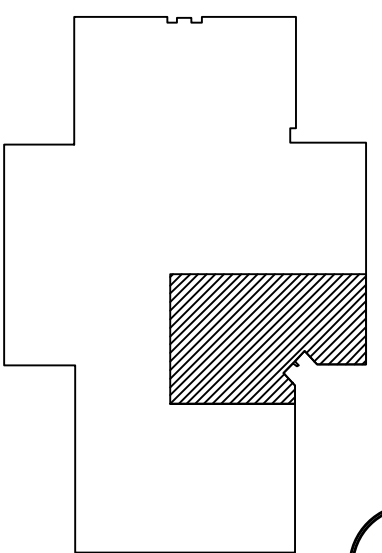
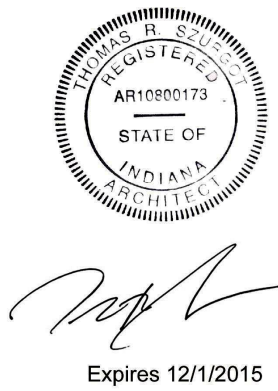
JACKSON ELEMENTARY SCHOOL RENOVATIONS

811 N. 400 E., VALPARAISO, IN 46383

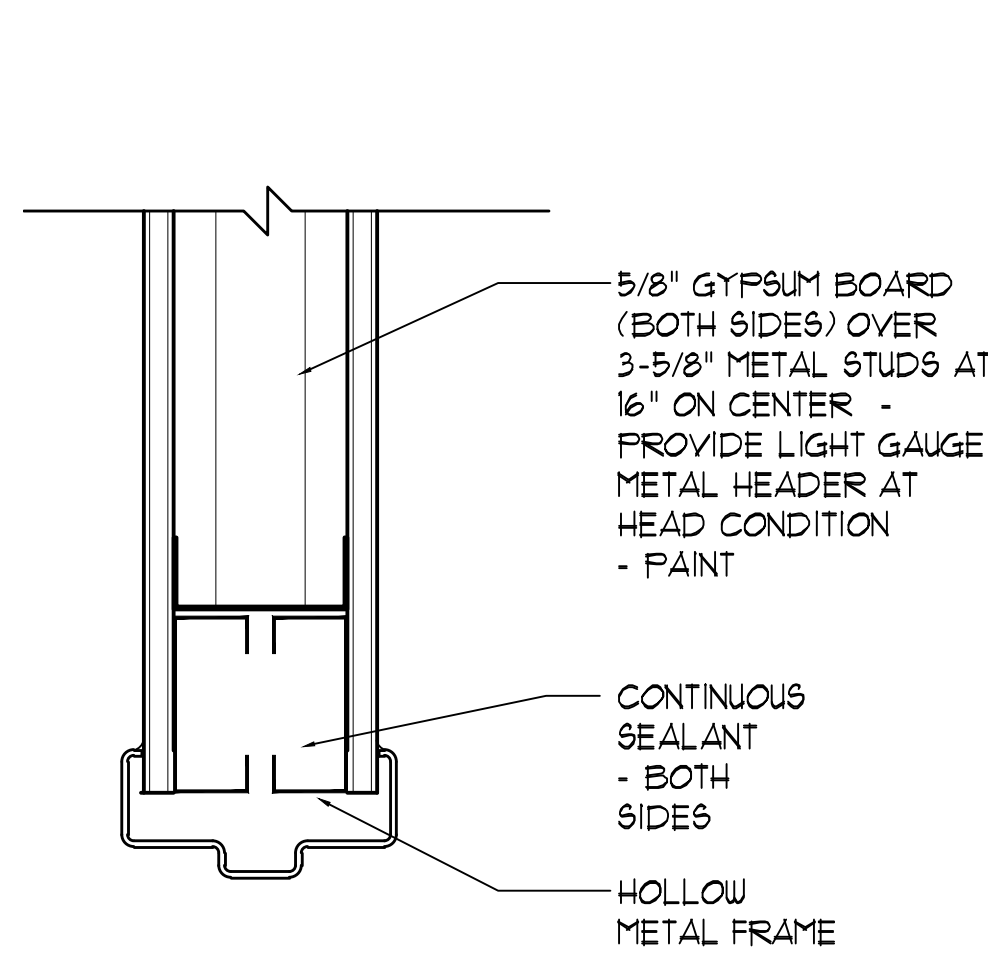
PROJECT NUMBER: E-008	REVISION:
PROJECT MANAGER: SCS	1
DRAWN BY: MGS	2
ISSUED FOR BIDDING: 04/01/2015	3
ROOM FINISH SCHEDULE AND CASEWORK SCHEDULE	4



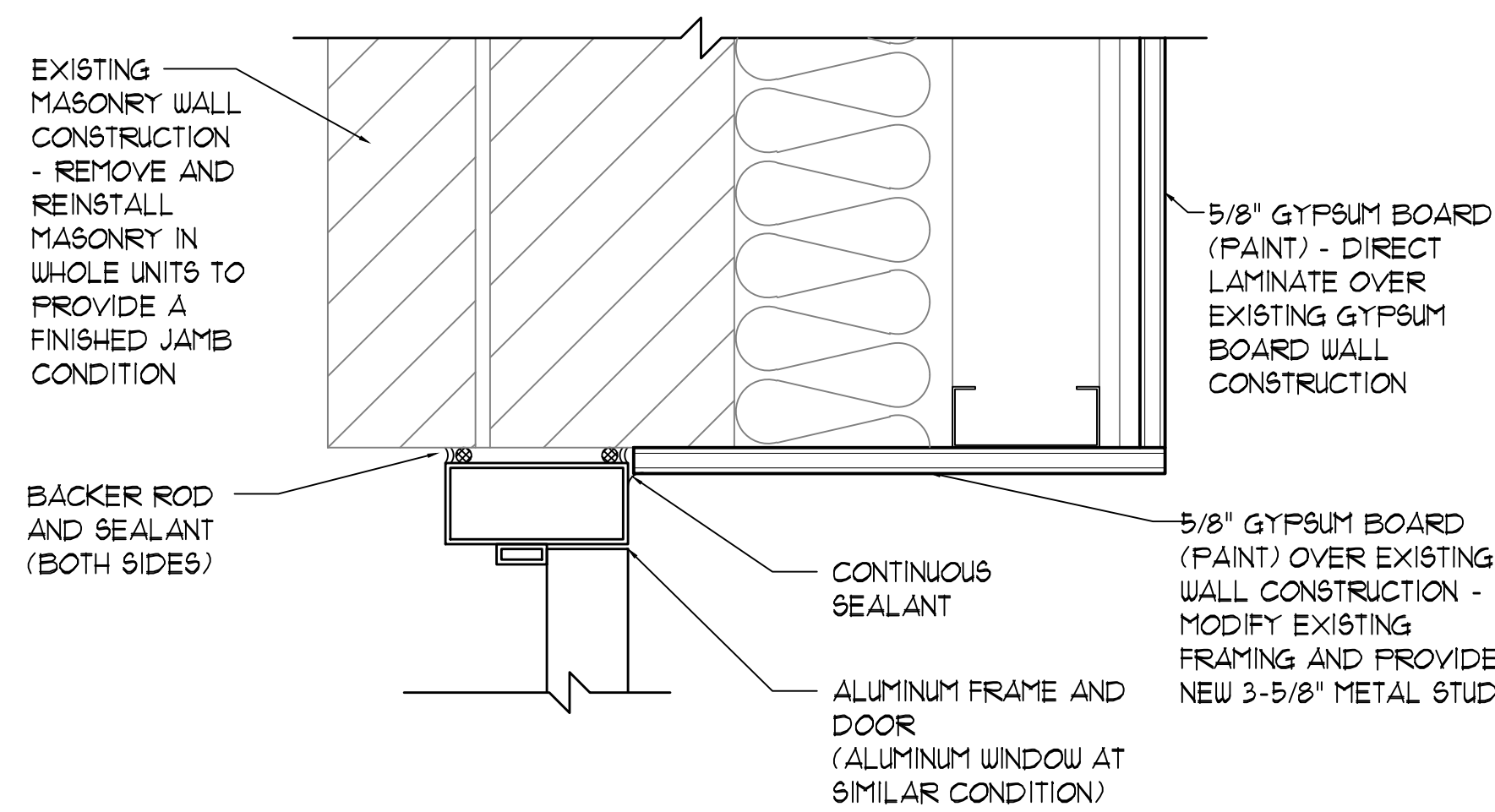
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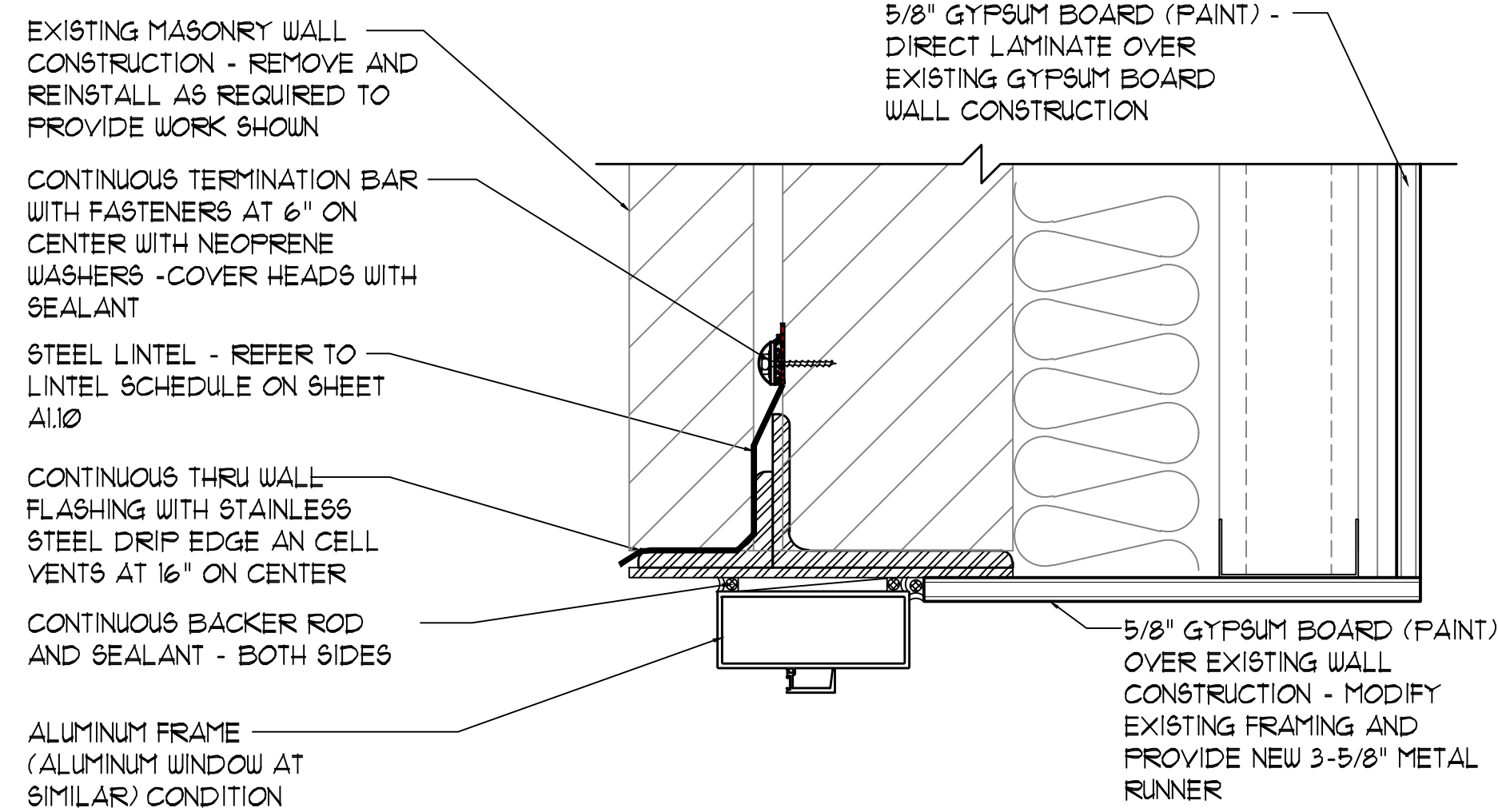
KEY PLAN
NOT TO SCALE



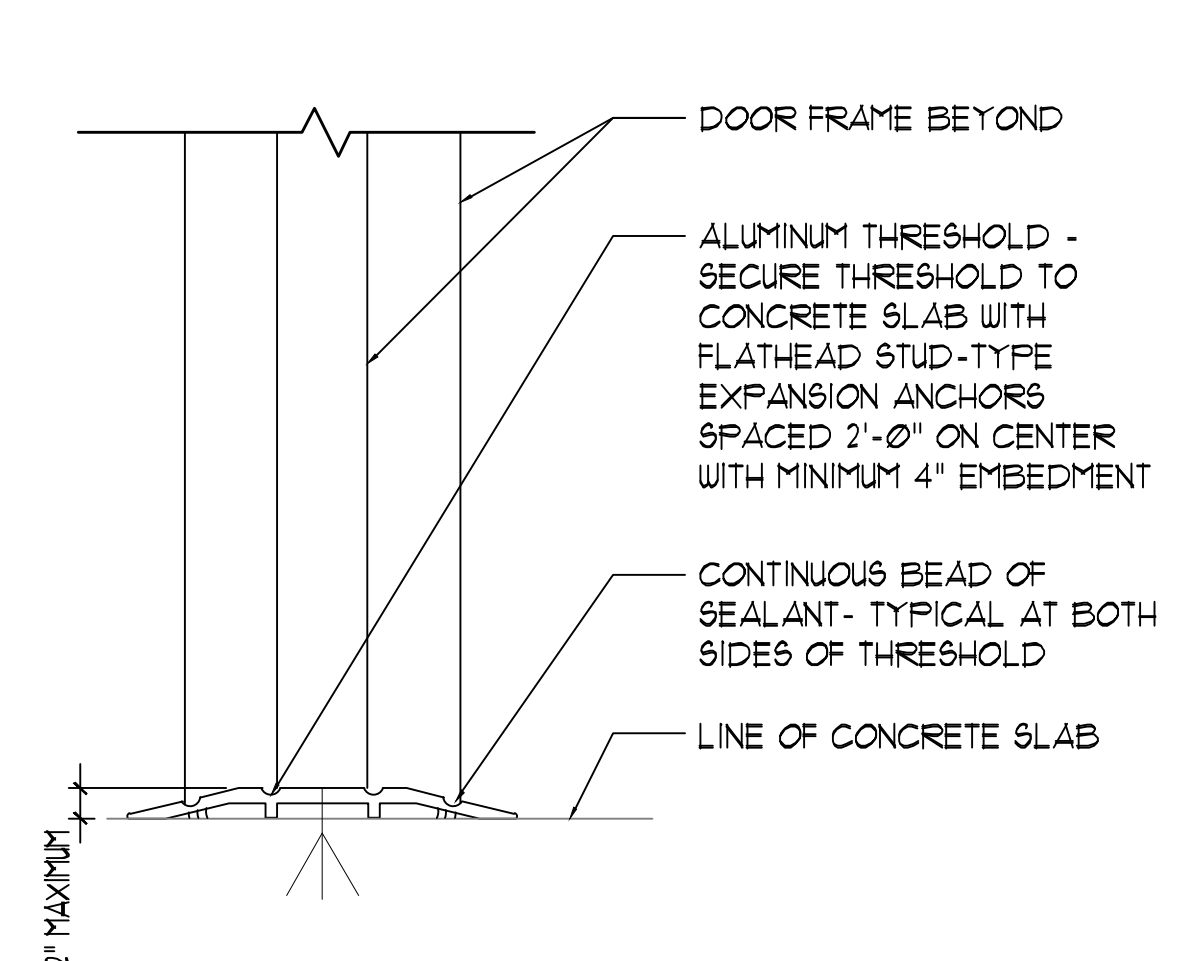
1 HEAD/JAMB DETAIL
3" x 1'-0"



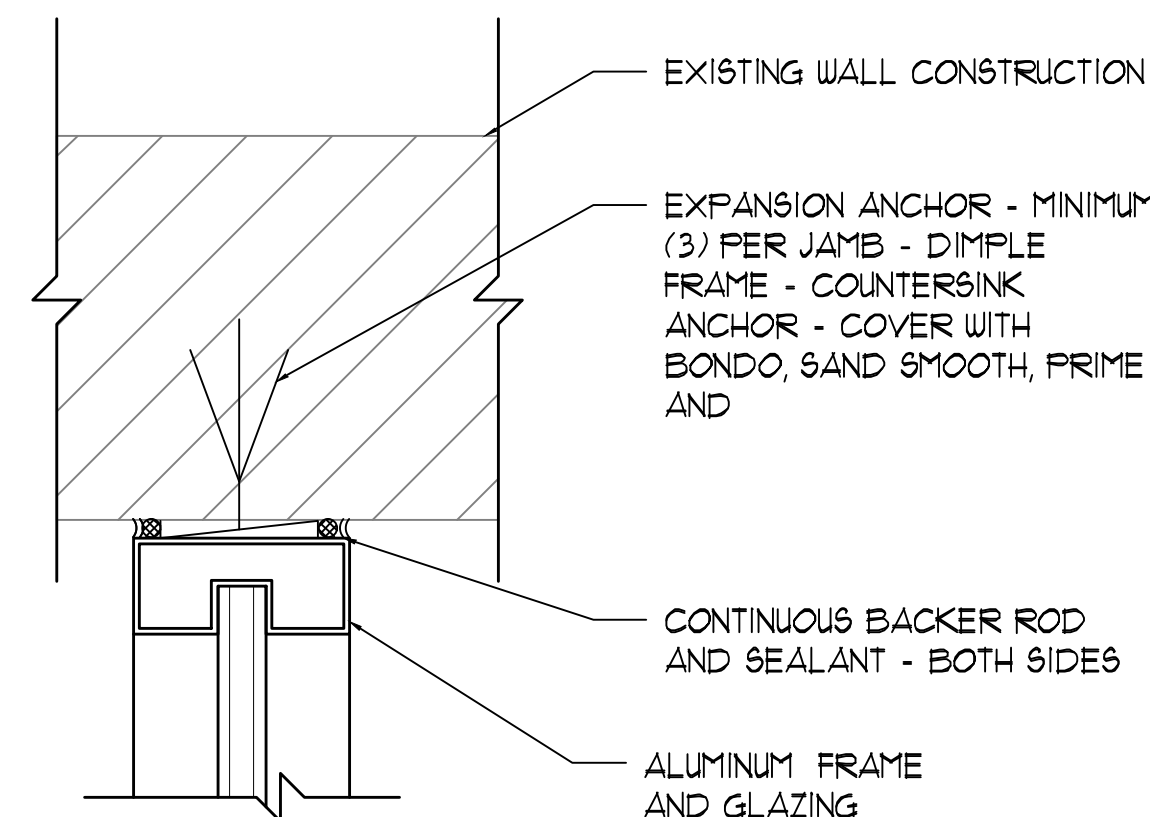
2 JAMB DETAIL
3" x 1'-0"



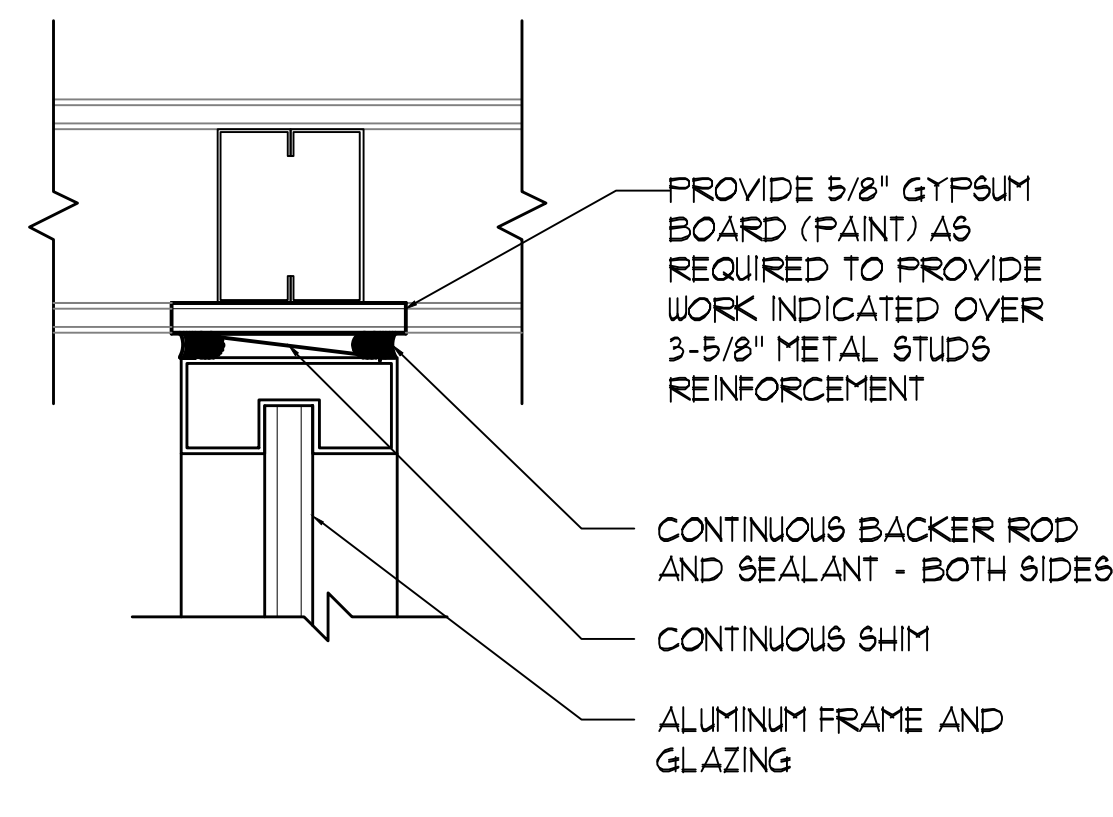
3 HEAD DETAIL
3" x 1'-0"



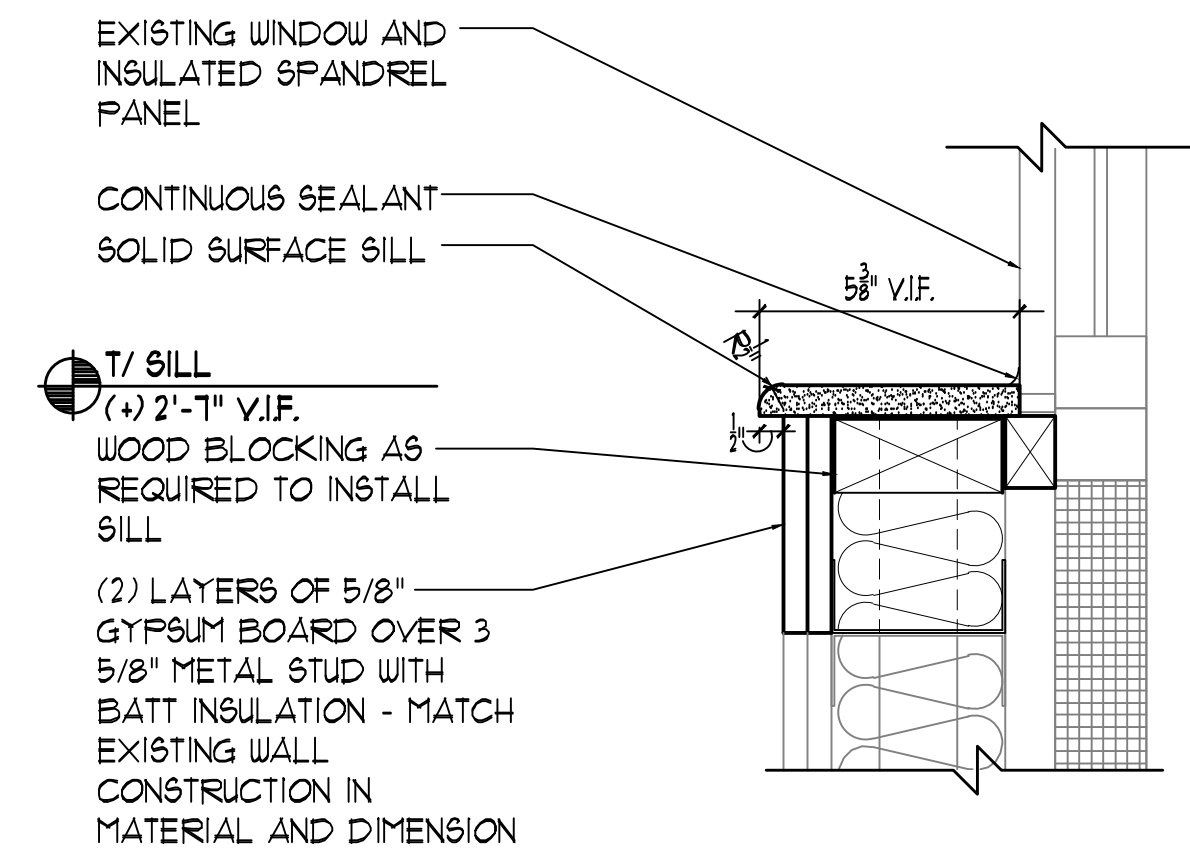
4 SILL DETAIL
3" x 1'-0"



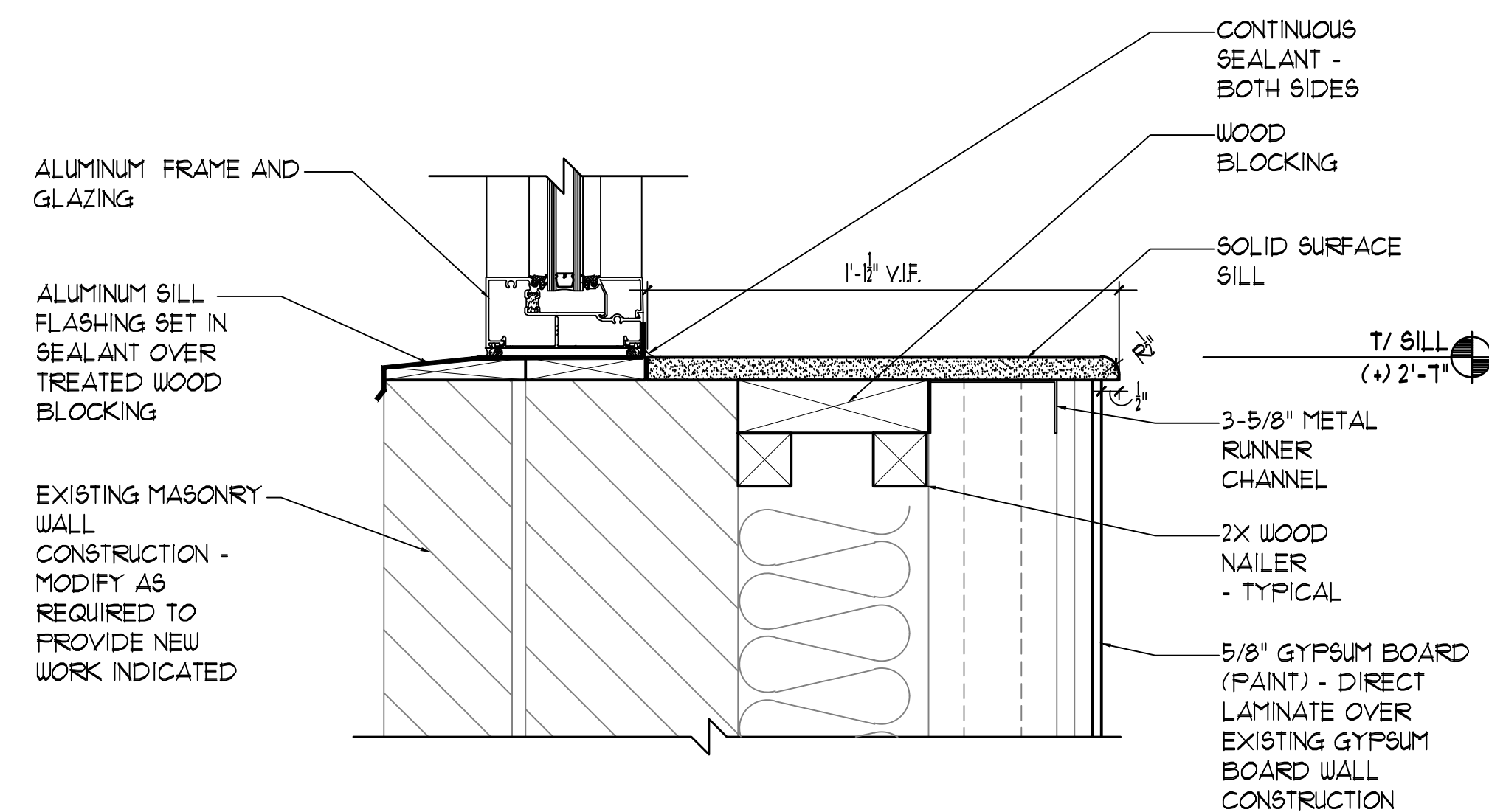
5 JAMB DETAIL
3" x 1'-0"



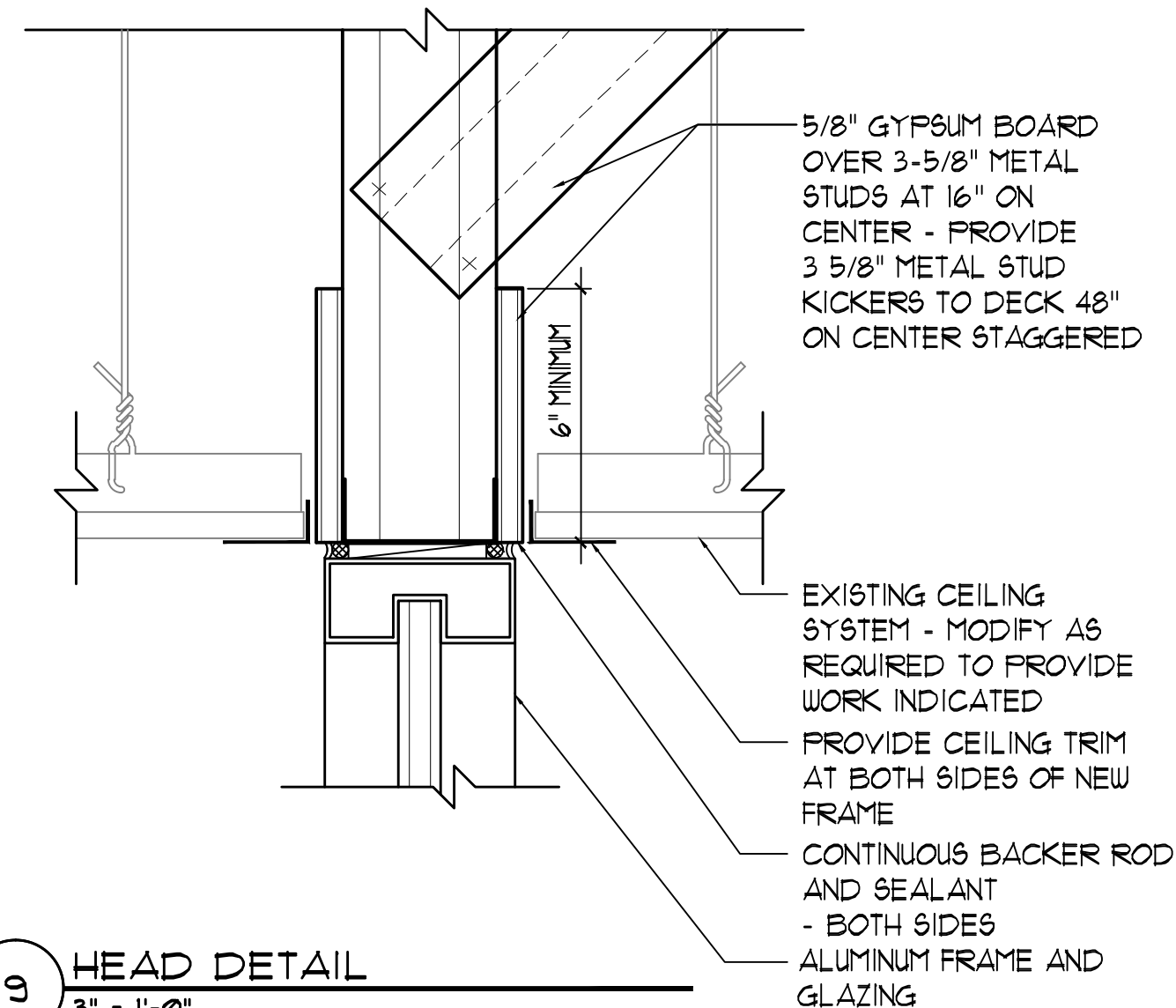
6 JAMB DETAIL
3" x 1'-0"



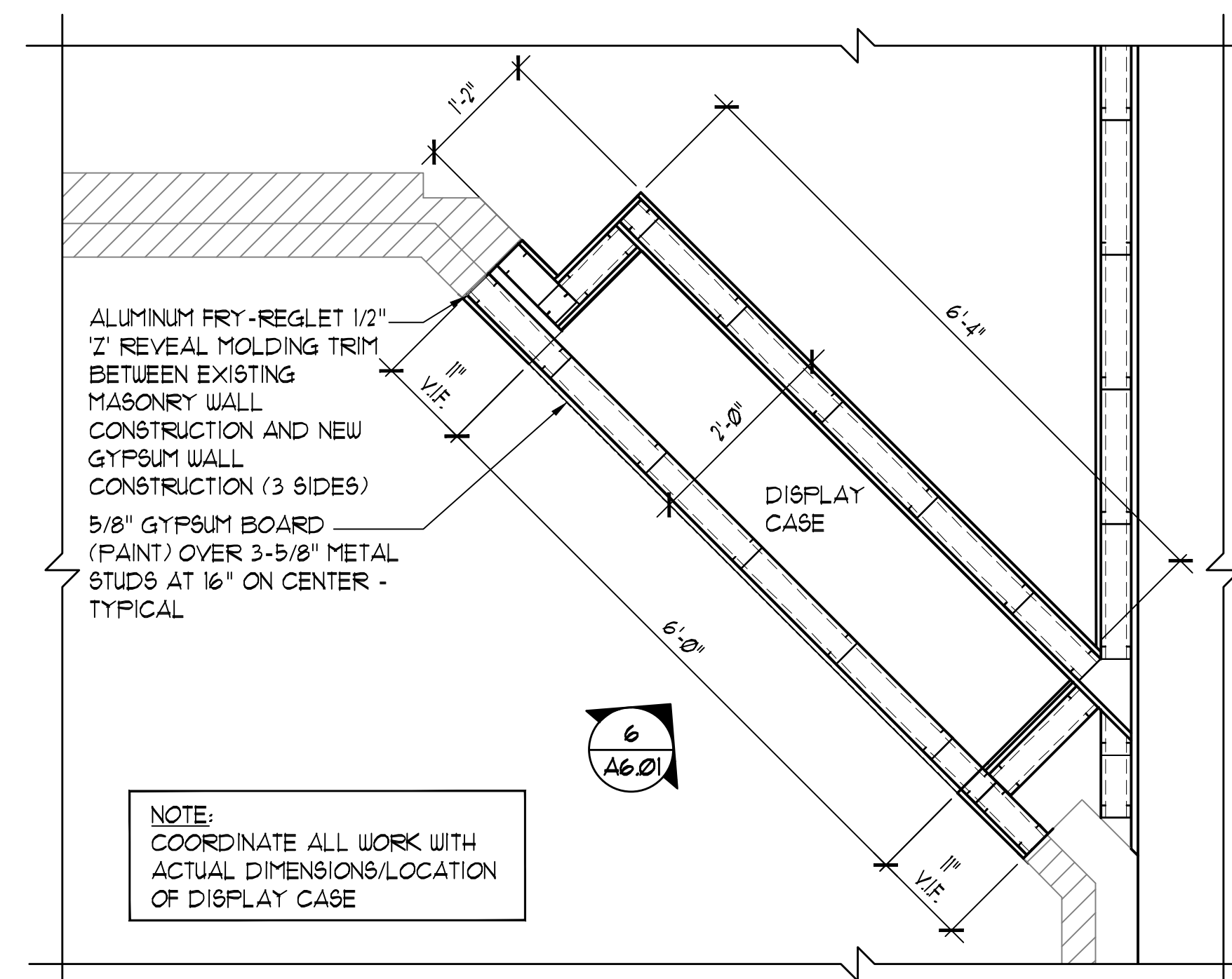
7 DETAIL
3" x 1'-0"



8 SILL DETAIL (ALTERNATE #1)
3" x 1'-0"

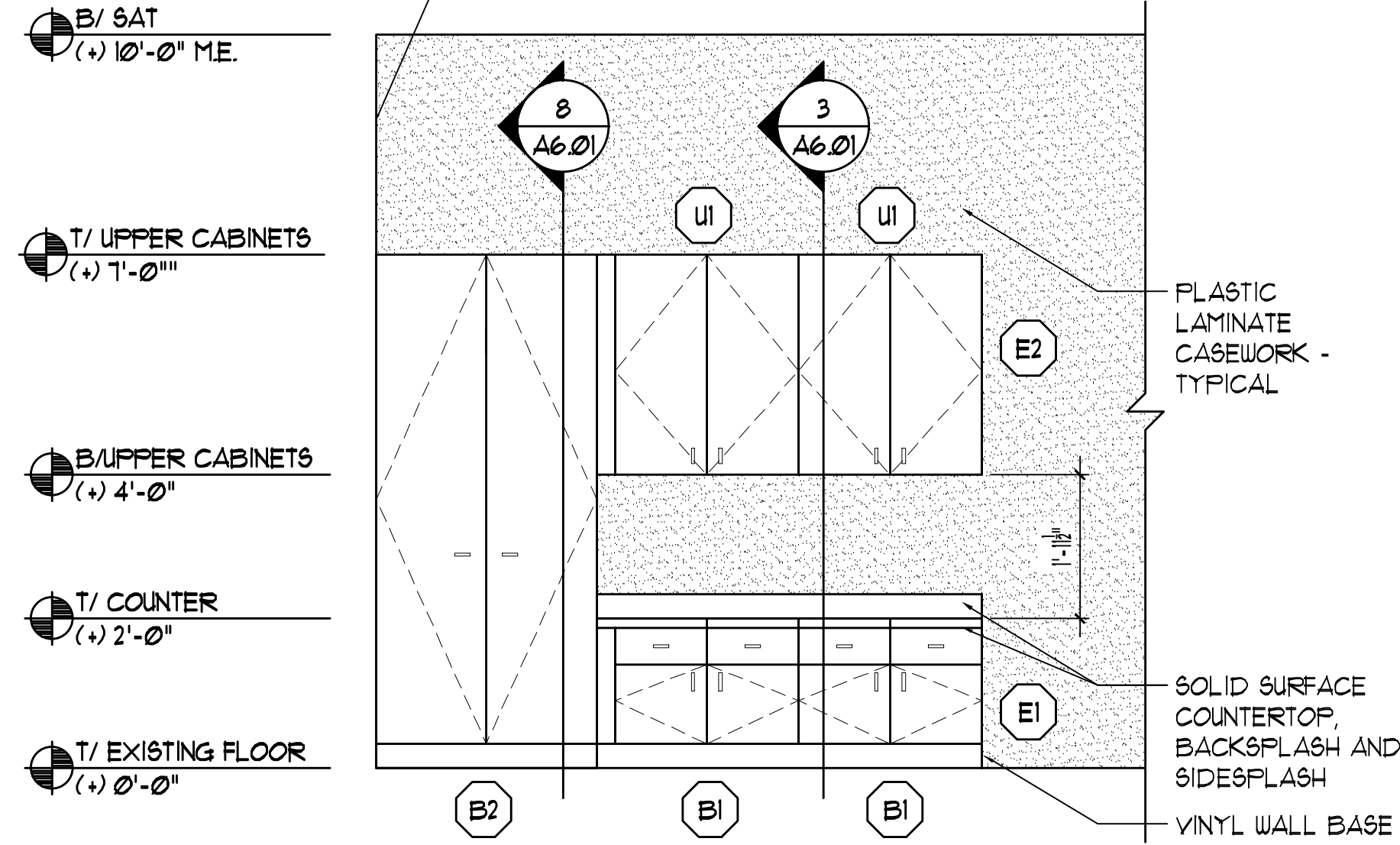


9 HEAD DETAIL
3" x 1'-0"

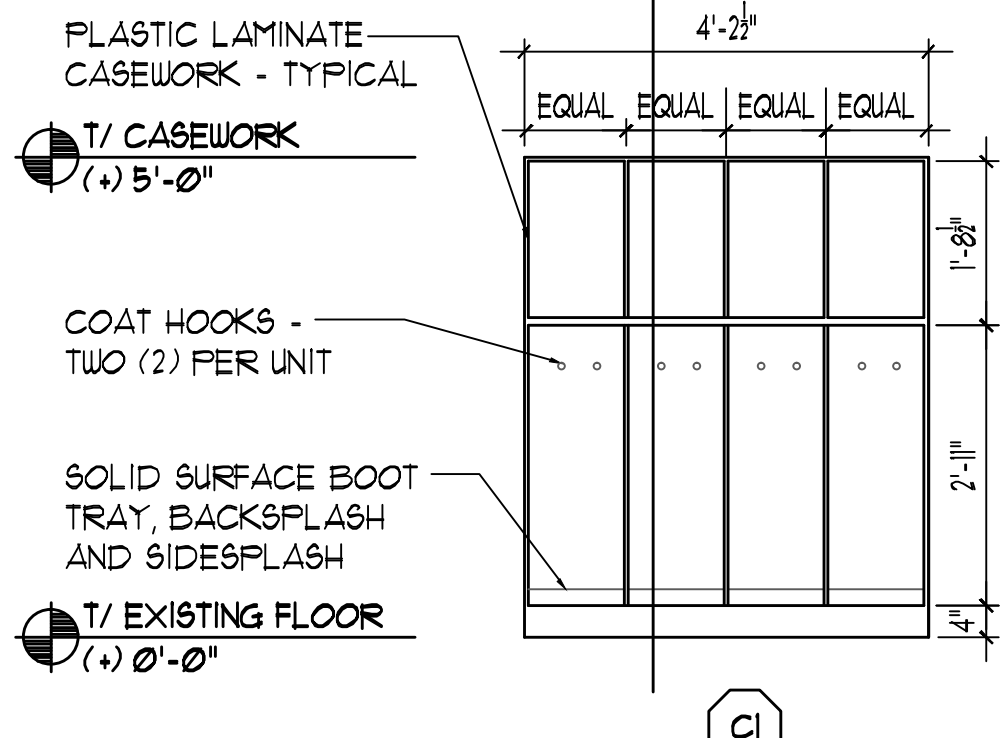


10 ENLARGED PLAN
3/4" x 1'-0"

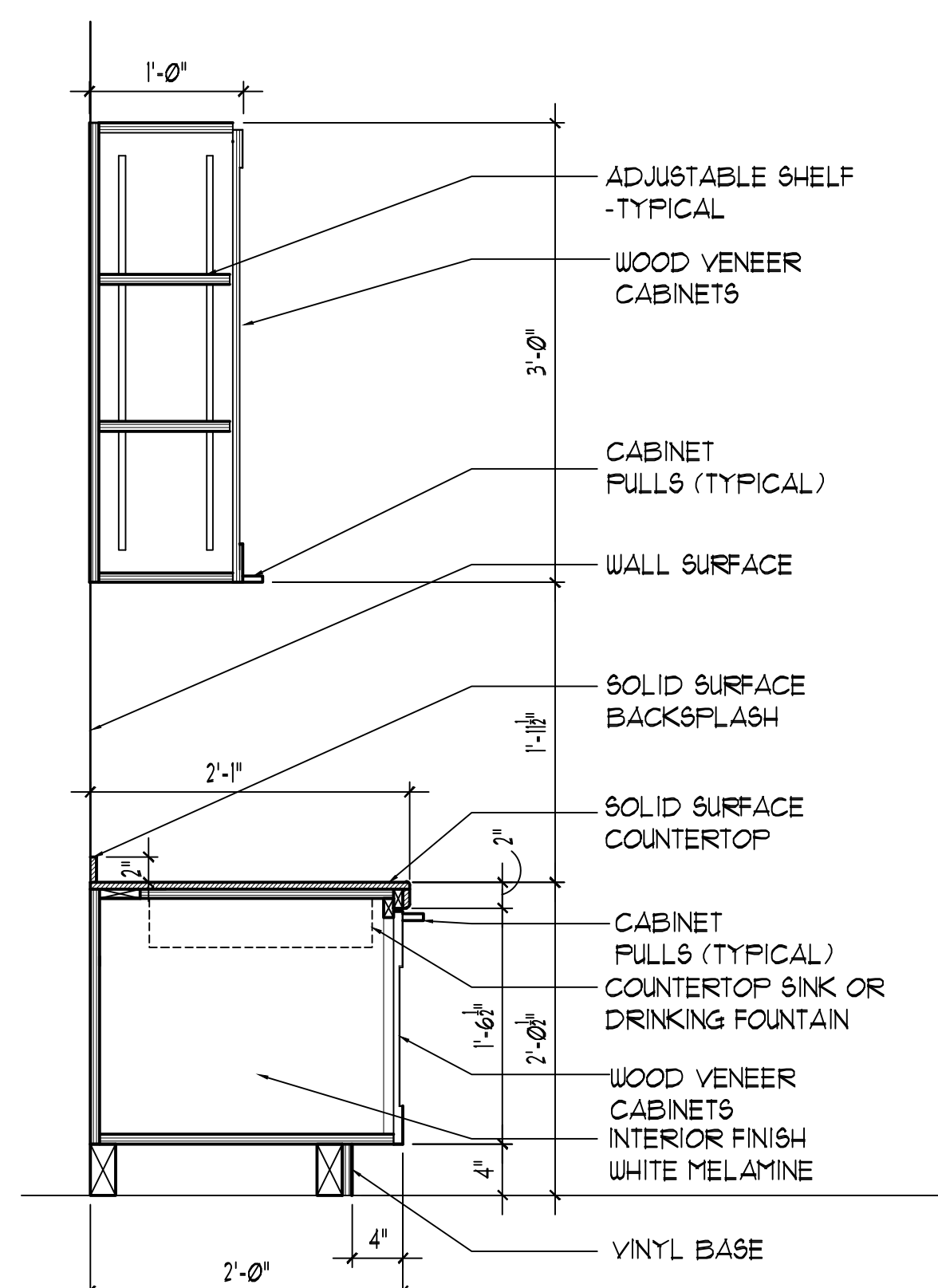
AT KINDERGARTEN B-123B, PROVIDE FORBO FLOORING SYSTEMS CORK MATERIAL AND 2" ALUMINUM FRAME - COLORS TO BE SELECTED FROM MANUFACTURER'S FULL COLOR RANGE - DIRECT LAMINATE ON EXISTING WALL CONSTRUCTION ABOVE CASEWORK ON EAST WALL



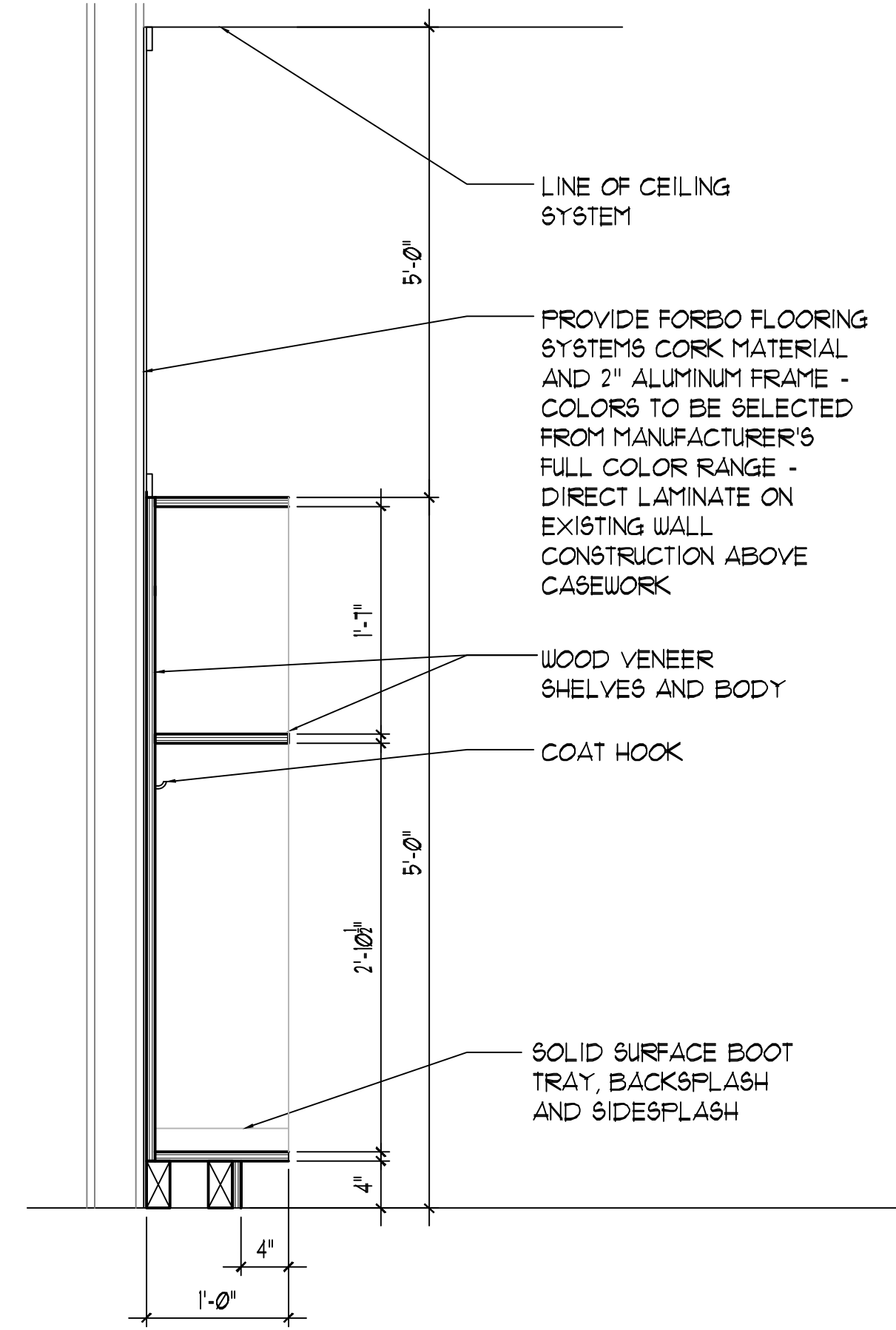
1 CASEWORK ELEVATION
1/2" = 1'-0"



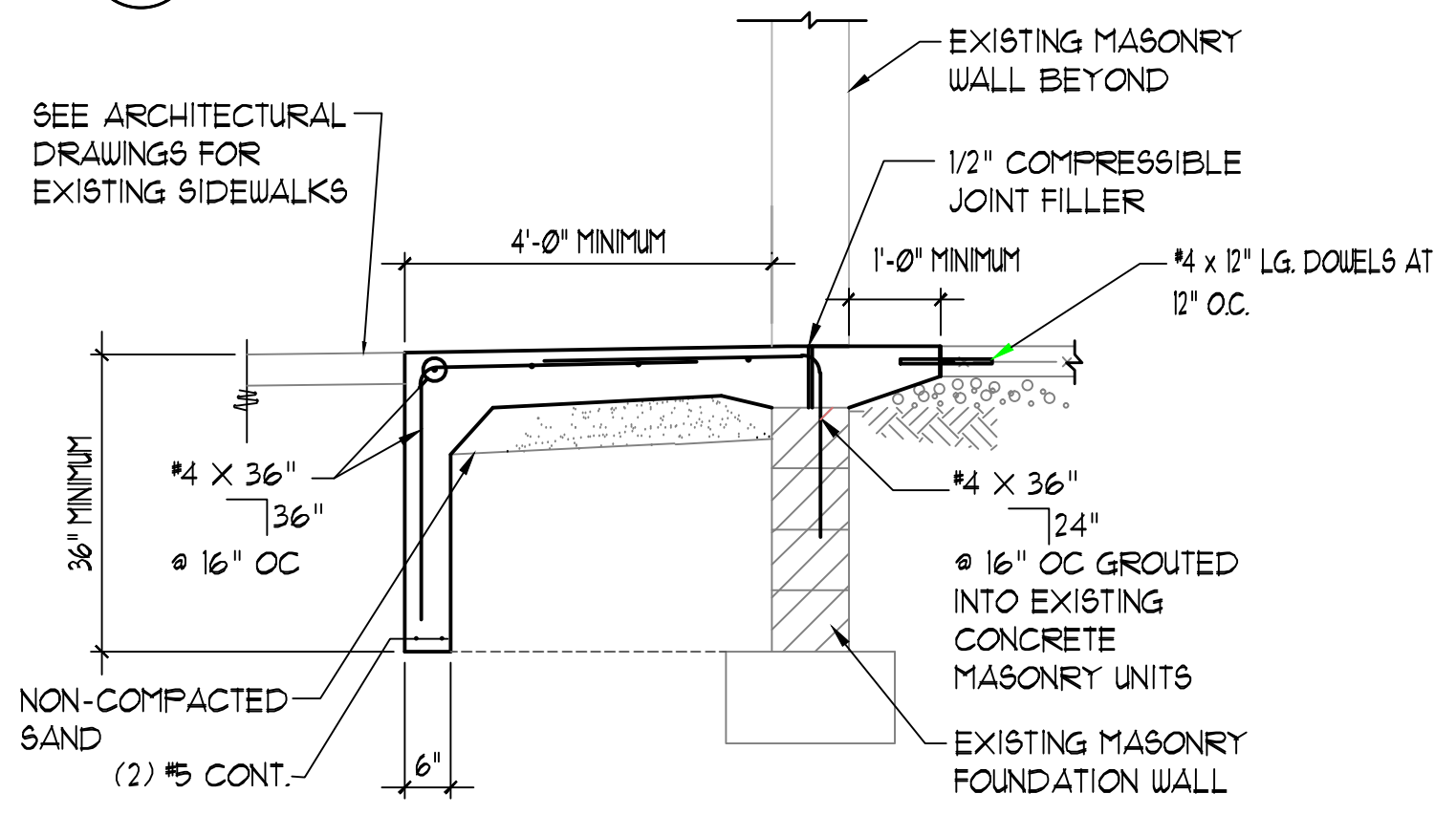
2 CASEWORK ELEVATION
1/2" = 1'-0"



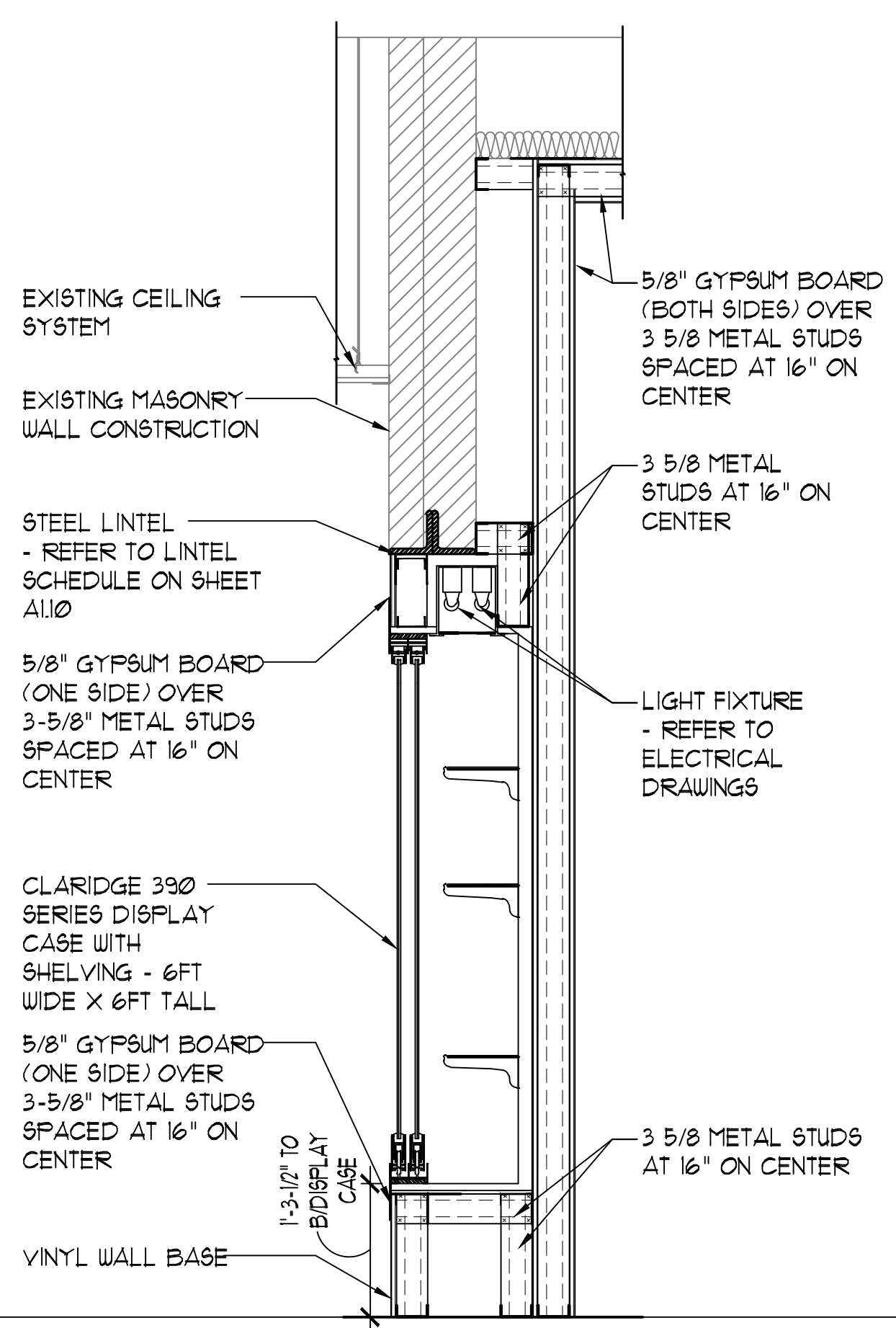
3 CASEWORK SECTION
1" = 1'-0"



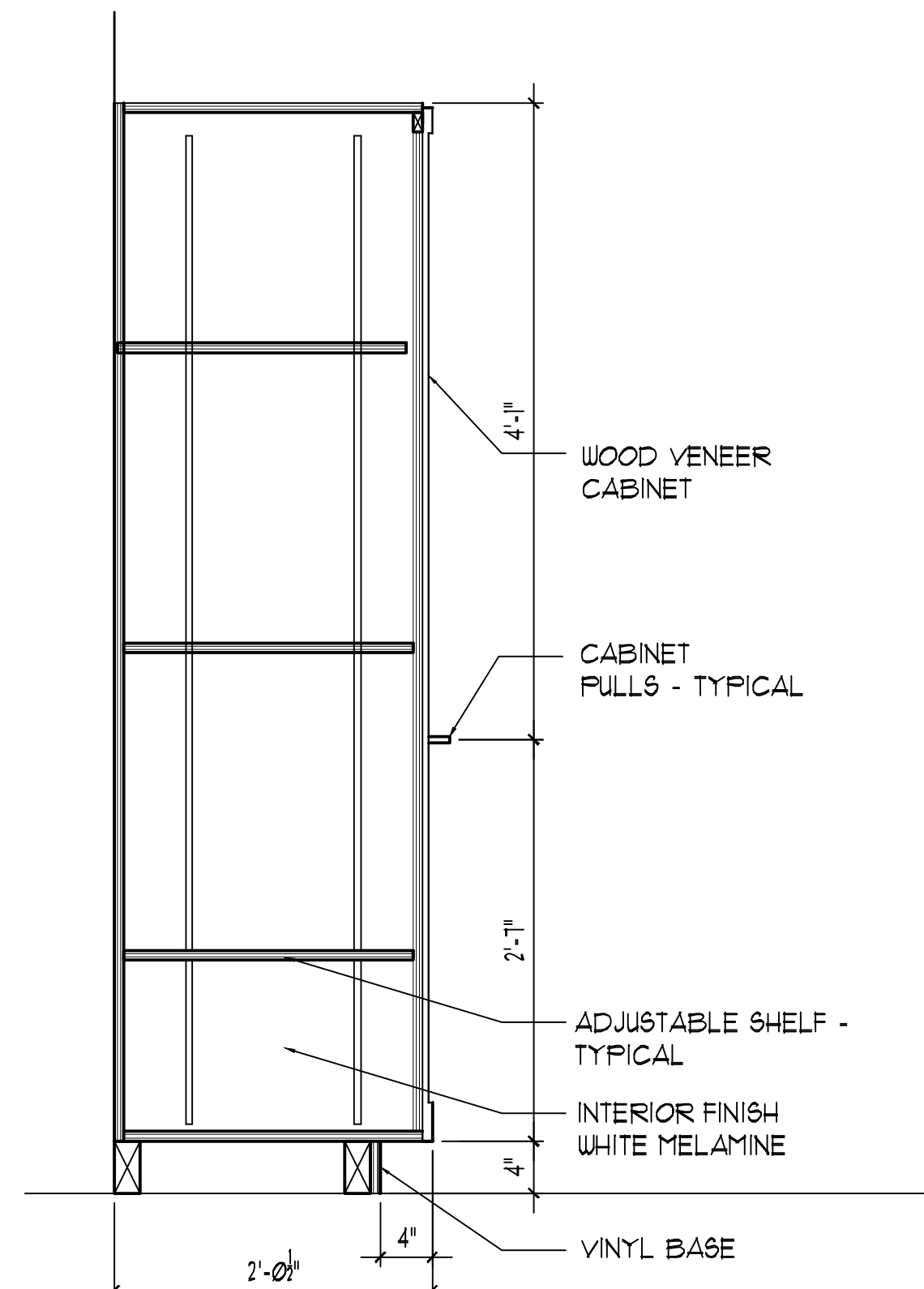
4 CASEWORK SECTION
1" = 1'-0"



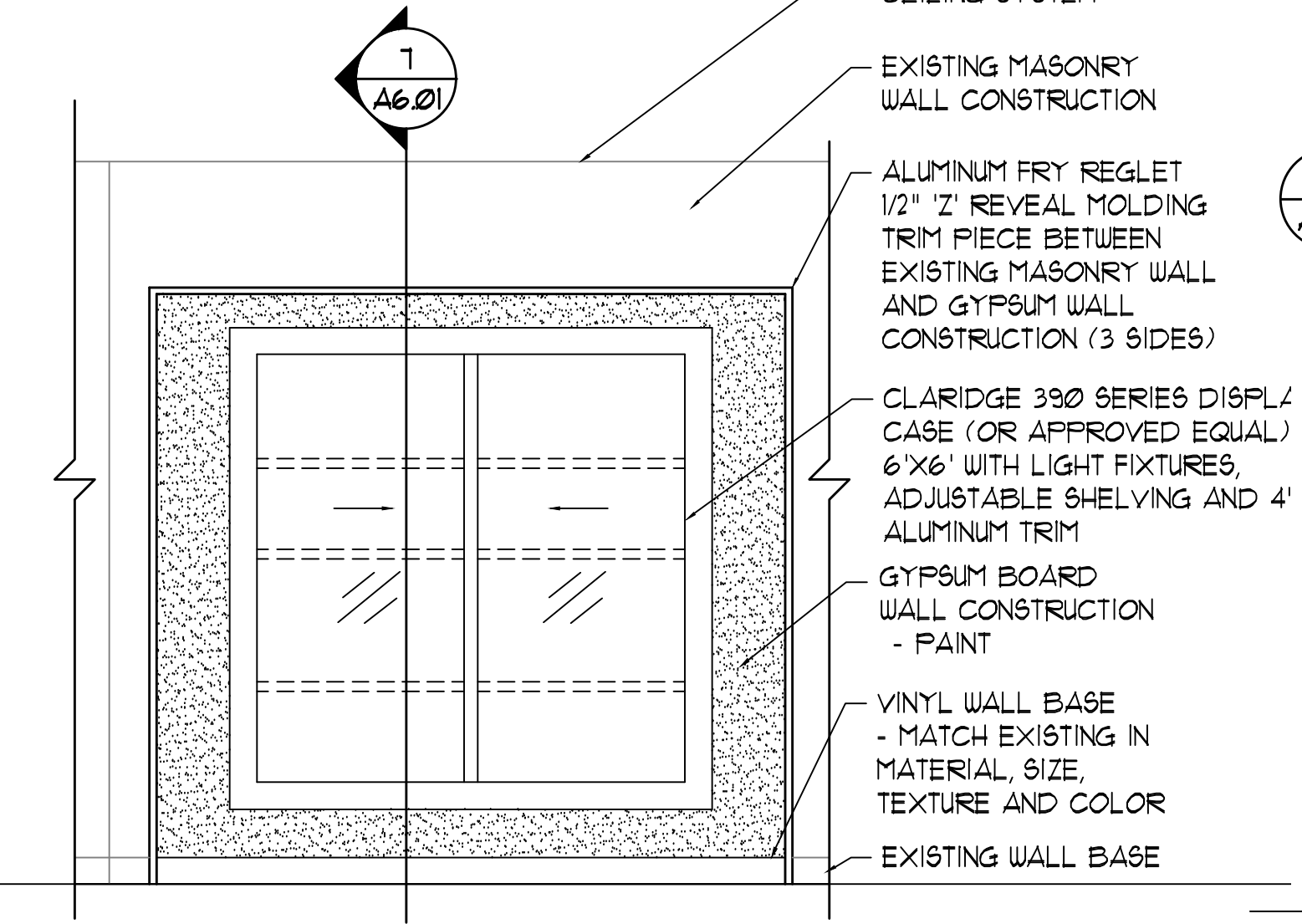
5 CONCRETE STOOP DETAIL
1/2" = 1'-0"



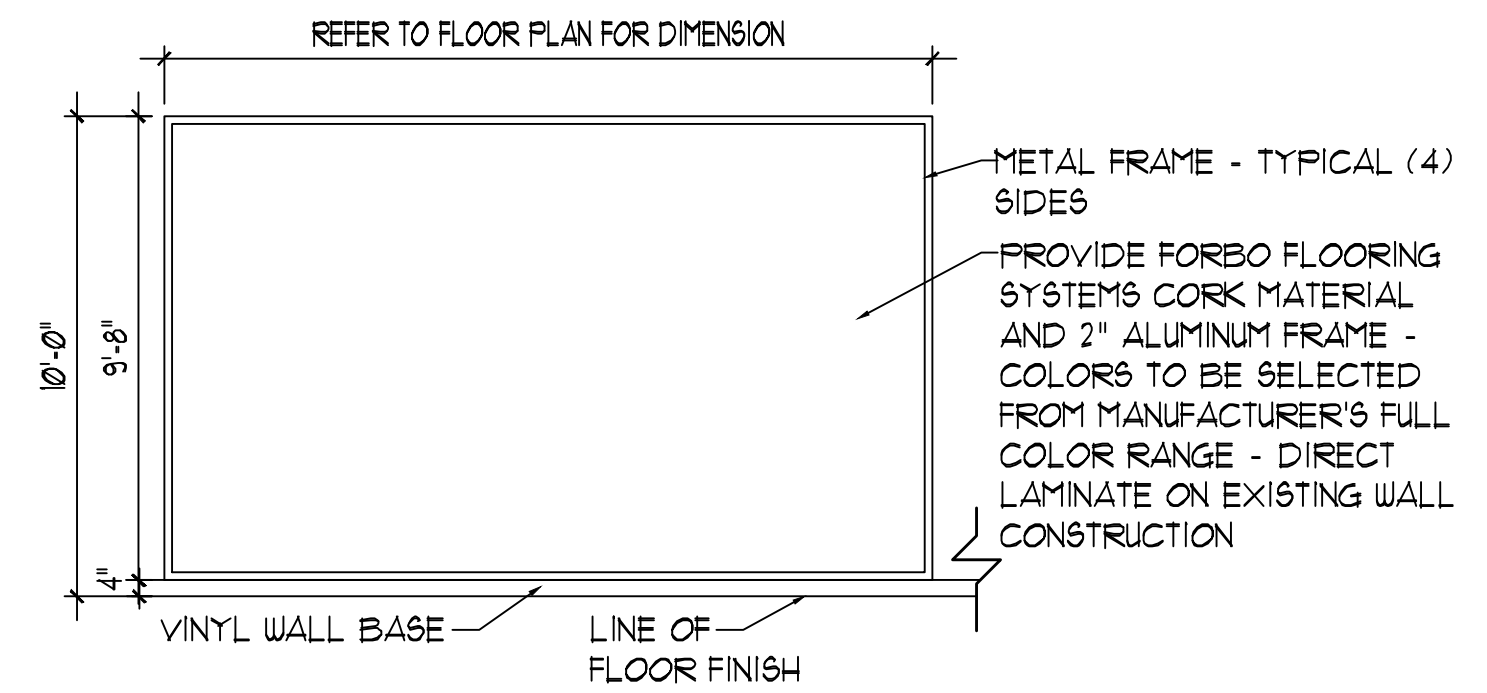
7 WALL SECTION
3/4" = 1'-0"



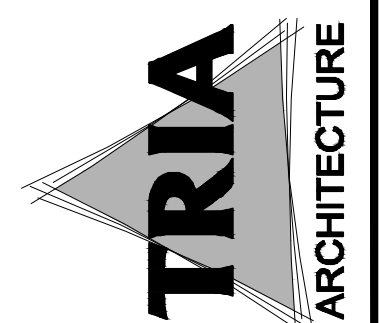
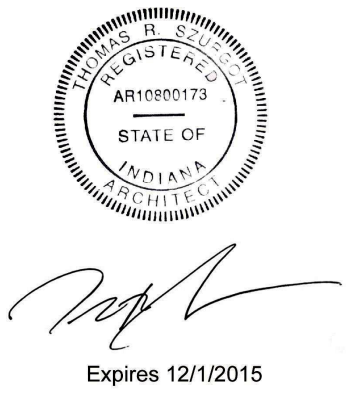
8 SECTION
1" = 1'-0"



6 ELEVATION
1/2" = 1'-0"



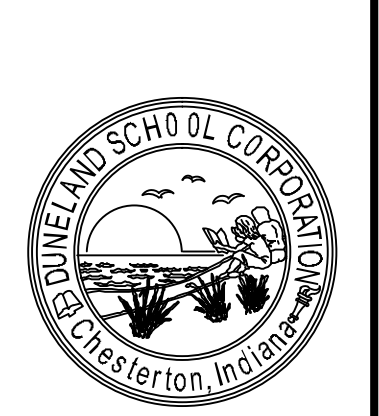
9 ELEVATION
1/4" = 1'-0"



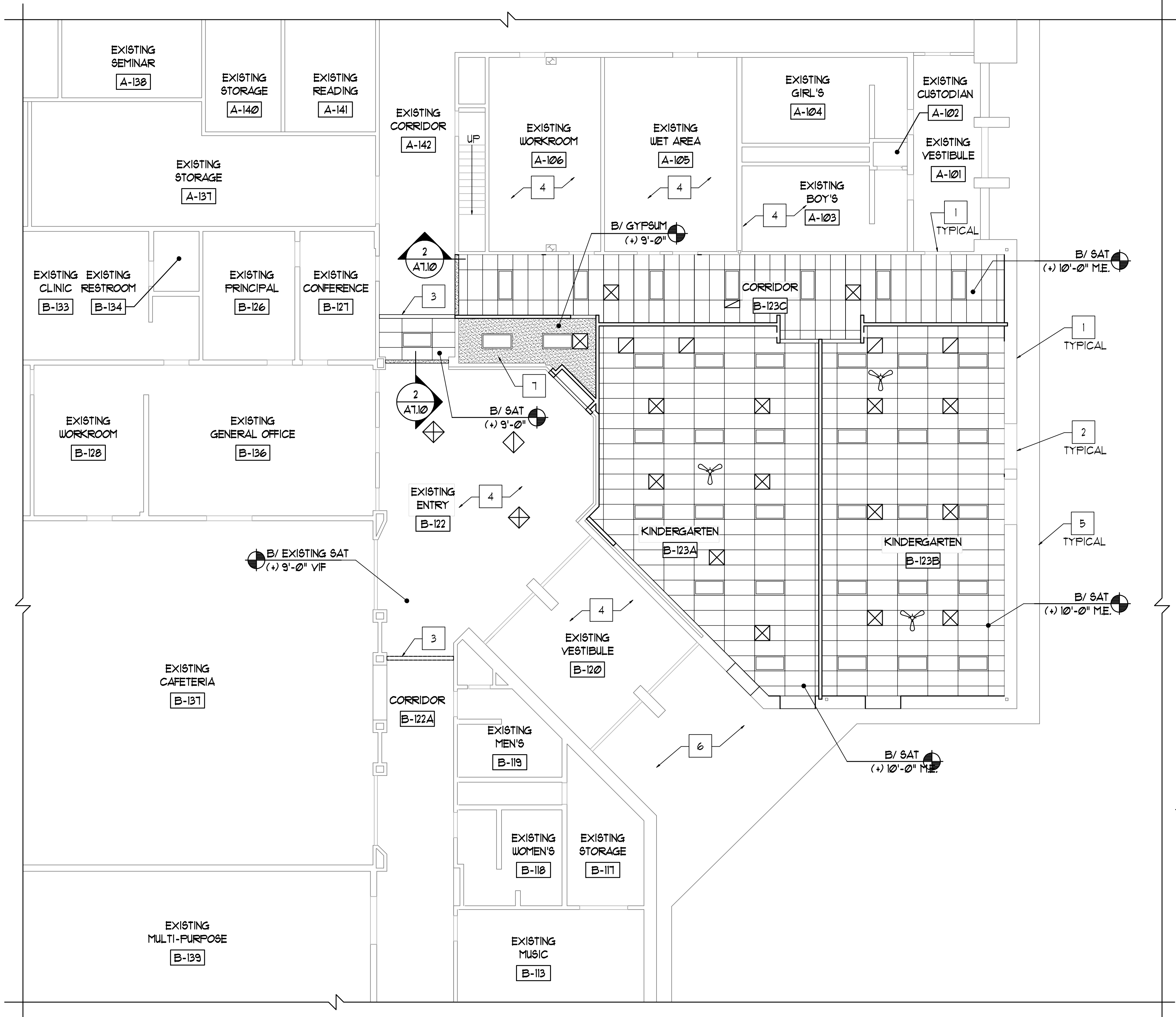
STRUCAL CONSULTING
Larson Engineering, Inc.
188 S. 8th Street, Suite 103
Westfield, Indiana 46084-5003
(765) 232-1064
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Millies Engineering Group
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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	REVISED:
PROJECT NAME: SCS	1/15/15
DRAWN BY:	
ISSUED FOR BIDDING: 04/01/2015	
DETAILS AND ROOM FINISH SCHEDULE	



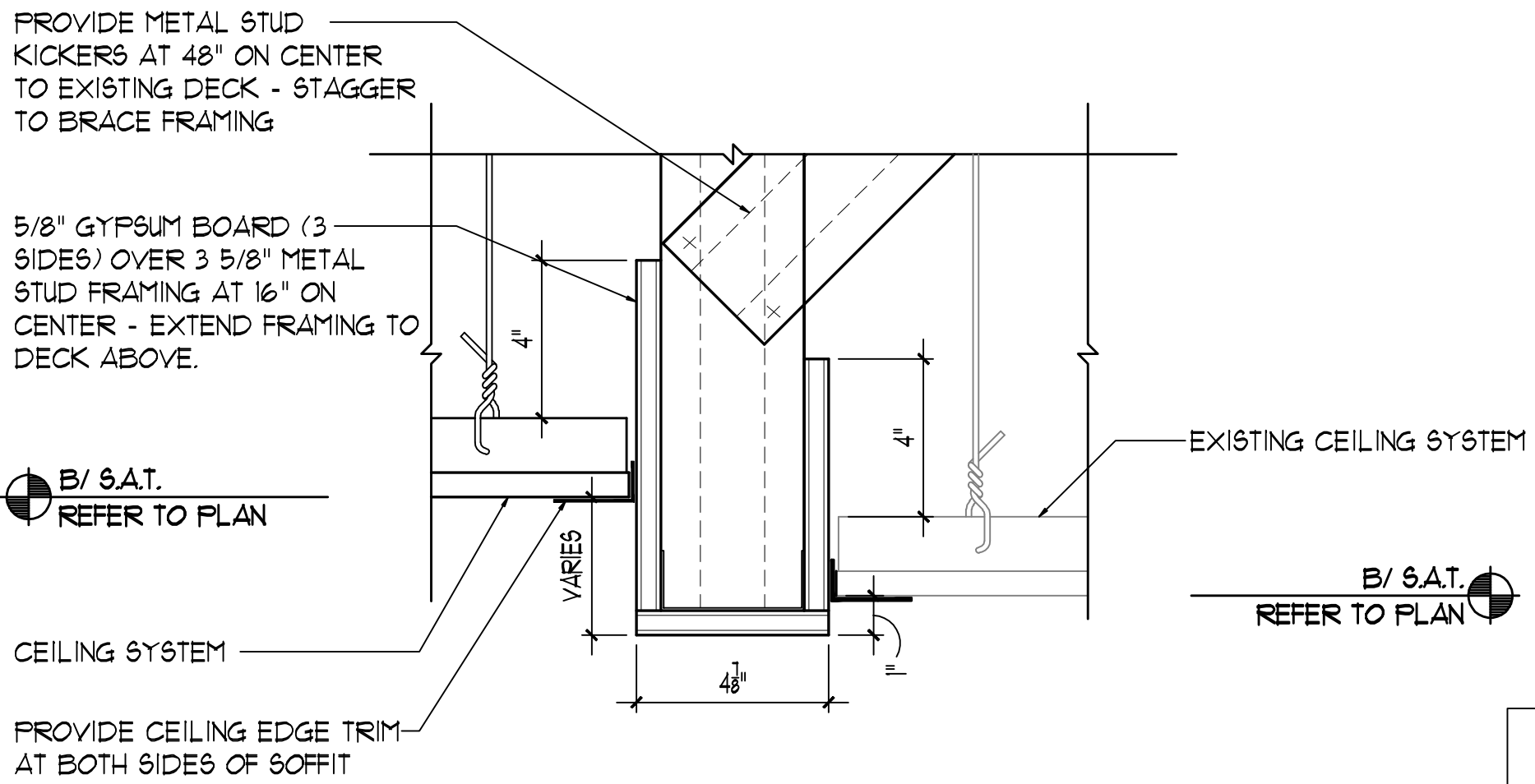
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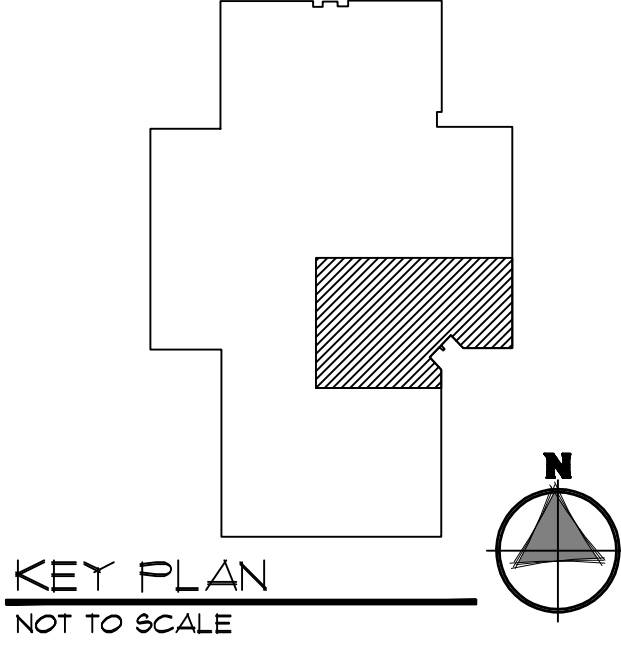
- ### REFLECTED CEILING PLAN GENERAL NOTES
- ALL CEILINGS TO BE INSTALLED AT EXISTING HEIGHT UNLESS NOTED OTHERWISE. DESIGN INTENT IS TO MATCH EXISTING CEILING HEIGHT. CONTRACTOR TO COORDINATE ALL HEIGHTS IN FIELD WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ITEMS (NEW AND EXISTING) - NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO INSTALLATION.
 - AT AREAS OF EXISTING CEILING SYSTEMS TO REMAIN - REMOVE AND REINSTALL EXISTING CEILING TILES AS REQUIRED TO PROVIDE WORK INDICATED - REPLACE ALL CEILING TILES DAMAGED DURING CONSTRUCTION.
 - COORDINATE LOCATION OF EXISTING CEILING MOUNTED FIXTURES AND EQUIPMENT WITH LOCATION OF LIGHT FIXTURES, UNLESS NOTED OTHERWISE.
 - REFER TO ELECTRICAL PLANS FOR ADDITIONAL CEILING MOUNTED DEVICES AND EQUIPMENT.
 - REFER TO MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR ADDITIONAL PIPING, DUCTWORK, EQUIPMENT, ETC. PAINT ALL EXPOSED ELEMENTS WITHIN WORK AREAS AND ABOVE CEILING WORK.
 - PAINT ALL EXPOSED SURFACES OF LINTELS AND GYPSUM BOARD.

- ### REFLECTED CEILING PLAN REFERENCED NOTES
- (NOT ALL NOTES WILL BE REFERENCED ON ALL SHEETS)
- WALL CONSTRUCTION (NEW AND EXISTING).
 - WINDOW (NEW AND EXISTING).
 - MODIFY EXISTING CEILING AT AREA OF NEW WORK.
 - REMOVE AND REINSTALL EXISTING CEILING SYSTEM AS REQUIRED TO PROVIDE WORK INDICATED. ANY DAMAGE TO CEILING MUST BE REPLACED AT NO ADDITIONAL COST TO OWNER.
 - EXISTING EXTERIOR SOFFIT.
 - MODIFY EXISTING PLASTER SOFFIT TO PROVIDE WORK INDICATED. PATCH SOFFIT TO MATCH EXISTING ADJACENT CONSTRUCTION IN MATERIAL, TEXTURE, COLOR AND THICKNESS.
 - PROVIDE (2) LAYERS OF 5/8" GYPSUM BOARD OVER 3 5/8" METAL STUDS AT 16" ON CENTER - (1) LAYER OF GYPSUM BOARD ON EACH SIDE OF STUDS.

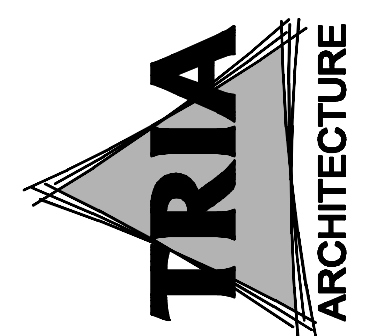
- ### LEGEND
- 2'x4' SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
 - AREA OF GYPSUM SOFFIT/CEILING - GYPSUM BOARD SHALL BE SUPPORTED BY 3-5/8" METAL STUD FRAMING AT 16" ON CENTER MAXIMUM OR SUSPENDED METAL FRAMING AT 24" ON CENTER MAXIMUM AT CONTRACTOR'S DISCRETION
 - 2' X 4' RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
 - MECHANICAL SUPPLY DIFFUSER LOCATION
 - MECHANICAL RETURN/EXHAUST DIFFUSER LOCATION
 - EXISTING CEILING FAN (RELOCATED) - REFER TO ELECTRICAL DRAWINGS
 - V.I.F. VERIFY IN FIELD
 - M.E. MATCH EXISTING
 - S.A.T. SUSPENDED ACOUSTICAL TILE CEILING SYSTEM



2 CEILING DETAIL
3/8"=1'-0"



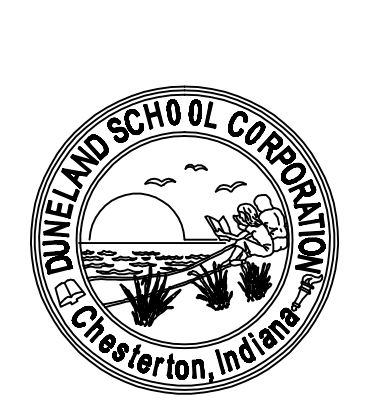
1 PARTIAL REFLECTED CEILING PLAN
1/8"=1'-0"



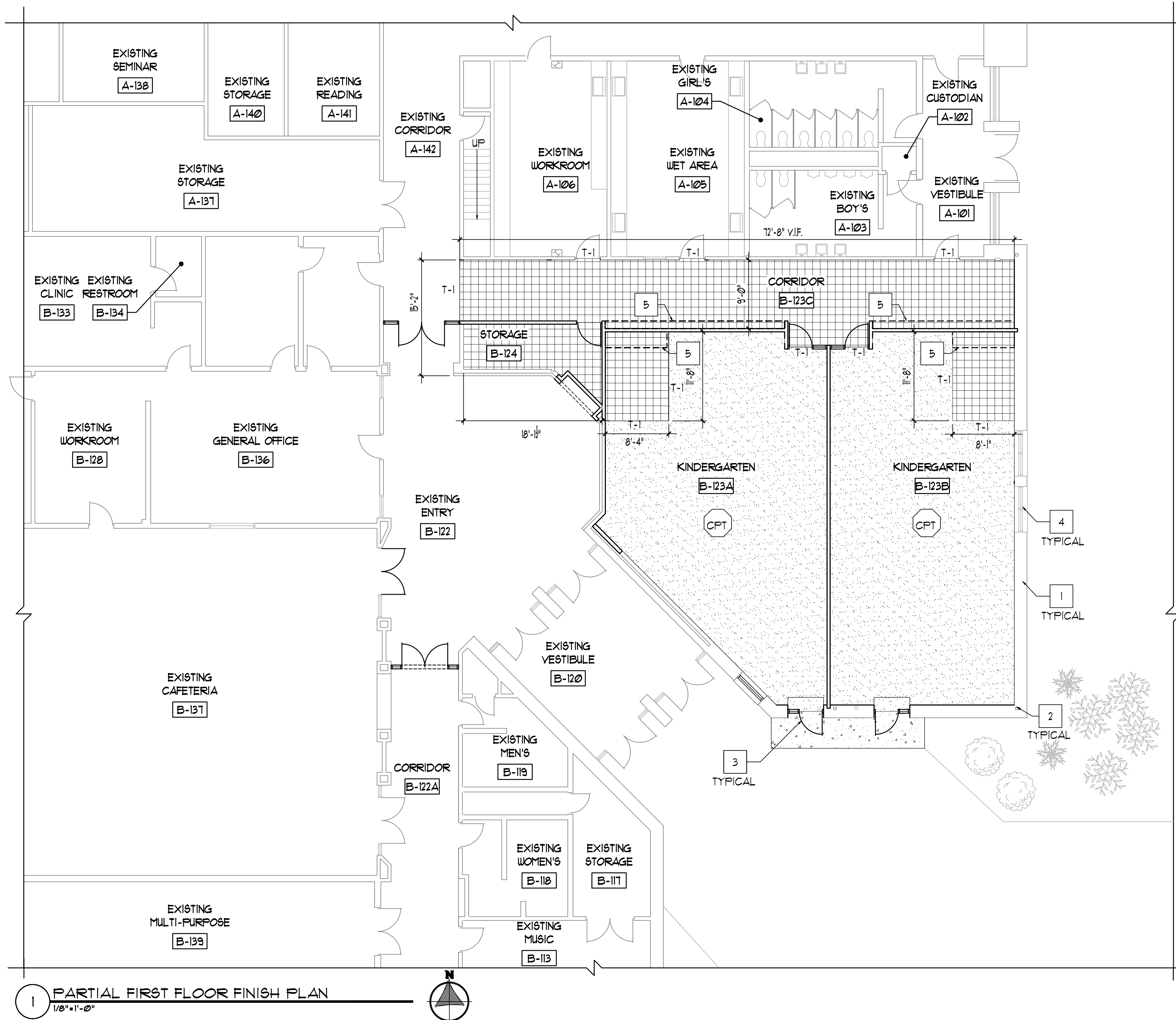
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Larson Engineering, Inc.
1600 S. 10th Street, Suite 100
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(P) 630.334.0540
(F) 630.334.0541
MEP CONSULTANT
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9711 INDIANAPOLIS BLVD. #100
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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER	E-008
PROJECT NAME	BACK
DRAWN BY	TYG
ISSUED FOR BIDDING	04/02/05
PARTIAL REFLECTED CEILING PLAN	



A7.10



1 PARTIAL FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

FLOOR FINISH PLAN GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. MAKE EXISTING FLOOR SLAB SMOOTH AND FLAT TO FLOOR FINISH MANUFACTURER'S TOLERANCE WITH MATERIAL SUITABLE TO FLOOR FINISH MANUFACTURER PRIOR TO INSTALLATION.
3. ALL TRANSITIONS BETWEEN DISSIMILAR FLOORING MATERIALS ARE TO RECEIVE A NEW TRANSITION STRIP.
4. PROVIDE VINYL COVERED BASE AT AREAS OF RESILIENT FLOORING - PROVIDE VINYL STRAIGHT BASE AT CARPETED AREAS.
5. AT AREAS WHERE PATCHING OF WALL BASE IS REQUIRED - FINISH TO MATCH ADJACENT IN MATERIAL, COLOR, HEIGHT, FINISH AND PROFILE.
6. PAINT ALL EXPOSED SURFACES OF ALL WALL CONSTRUCTION (NEW AND EXISTING) IN WORK AREA - UNLESS NOTED OTHERWISE.
7. PAINT ALL GYPSUM BOARD CEILINGS AND SOFFITS - UNLESS NOTED OTHERWISE.
8. DO NOT PAINT PREFINISHED ITEMS, FACE BRICK, AND TILE FINISHES.
9. PROVIDE WALL BASE AT ALL LOCATIONS OF NEW FLOOR FINISH AND NEW WALL CONSTRUCTION - UNLESS NOTED OTHERWISE.
10. AT ALL DOORS AND FRAMES INSTALLED IN EXISTING OPENINGS - PATCH AND PAINT EXISTING ADJACENT SURFACES AFTER FRAME INSTALLATION - DO NOT PAINT PREFINISHED ITEMS - MATCH EXISTING COLOR, UNLESS NOTED OTHERWISE.

FLOOR FINISH PLAN REFERENCED NOTES

1. WALL CONSTRUCTION (NEW AND EXISTING).
2. COLUMN.
3. DOOR AND FRAME (NEW AND EXISTING).
4. WINDOW (NEW AND EXISTING).
5. CASEWORK.

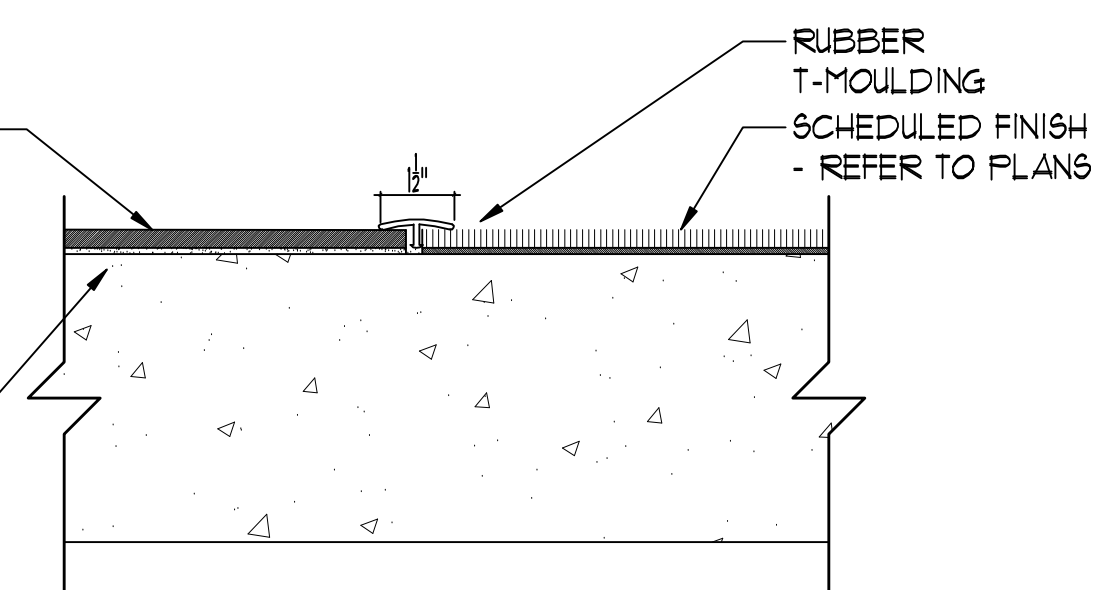
FLOOR FINISH LEGEND

- ETR (EXISTING TO REMAIN) - PROTECT EXISTING FLOORING DURING CONSTRUCTION - CONTRACTOR TO REPAIR ANY AFFECTED AREAS - MATCH ADJACENT FINISH IN MATERIAL, COLOR, TEXTURE AND SIZE
- 12"x12" VINYL COMPOSITE TILE (UP TO 2 COLORS) WITH VINYL BASE
- BROADLOOM CARPET WITH VINYL BASE (FIELD COLOR)
- CONCRETE - MATCH EXISTING ADJACENT IN TEXTURE, FINISH AND COLOR
- CPT CARPET - REFER TO SPECIFICATIONS
- T-1 TRANSITION STRIP - REFER TO DETAIL 2/A9.10

NOTE:
CONTRACTOR TO VERIFY CONDITIONS AT
EACH TRANSITION AND SIZE REDUCERS
ACCORDINGLY

SCHEDULED FINISH
-REFER TO PLANS

CONCRETE SLAB TO
BE PREPARED FOR
FLOOR FINISH PER
MANUFACTURER'S
RECOMMENDATIONS

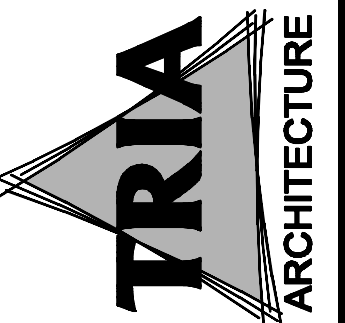
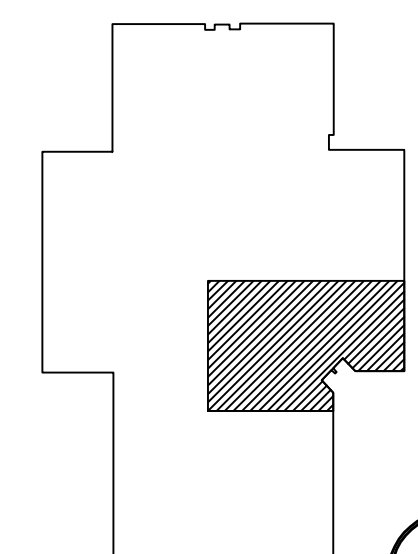


2 TRANSITION DETAIL
3" = 1'-0"

KEY PLAN
NOT TO SCALE



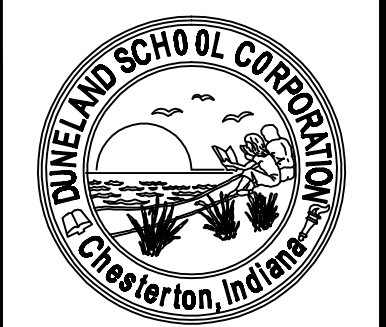
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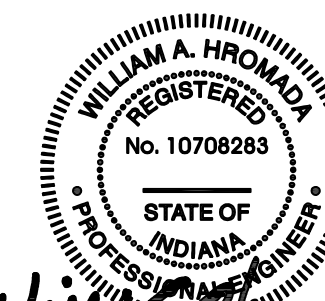
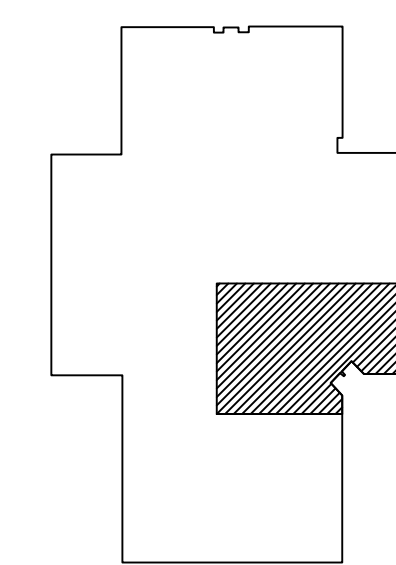
STRUCTURAL CONSULTANT
Larson Engineering, Inc.
1600 N. 10th Street, Suite 100
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(F) 630.341.0541
Miles Engineering Group
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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383


PROJECT NUMBER: E-008	REVISED: 05/15/2015
PROJECT MANAGER: ECK	DATE: 05/15/2015
DRAWN BY: TTE	DATE: 05/15/2015
ISSUED FOR BIDDING: 04/10/2015	DATE: 04/10/2015
PARTIAL FIRST FLOOR FINISH PLAN	



A9.10



1. REMOVE EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED SUPPLY AIR DUCTWORK COMPLETE AS REQUIRED.
2. REMOVE EXISTING SUPPLY AIR DUCTWORK COMPLETE AS REQUIRED.
3. REMOVE EXISTING RETURN AIR GRILLE AND ASSOCIATED RETURN AIR DUCTWORK COMPLETE AS REQUIRED.
4. REMOVE EXISTING RETURN AIR DUCTWORK COMPLETE AS REQUIRED.
5. REMOVE AND RELOCATE EXISTING THERMOSTAT TO NEW LOCATION INDICATED ON SHEET M201 COMPLETE AS REQUIRED.

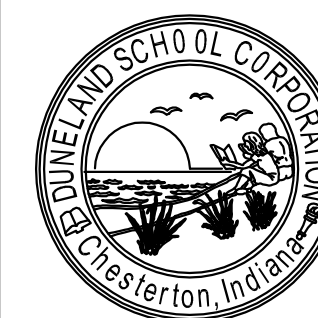
 **Larson Engineering, Inc.**
1488 BOND STREET, SUITE 100
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(P) 630.367.0540

Millies Engineering Group
NAPERVILLE, ILLINOIS 60563-6503
(F) 630.351.0164
MEP CONSULTANT:
(F) 219.924.8400

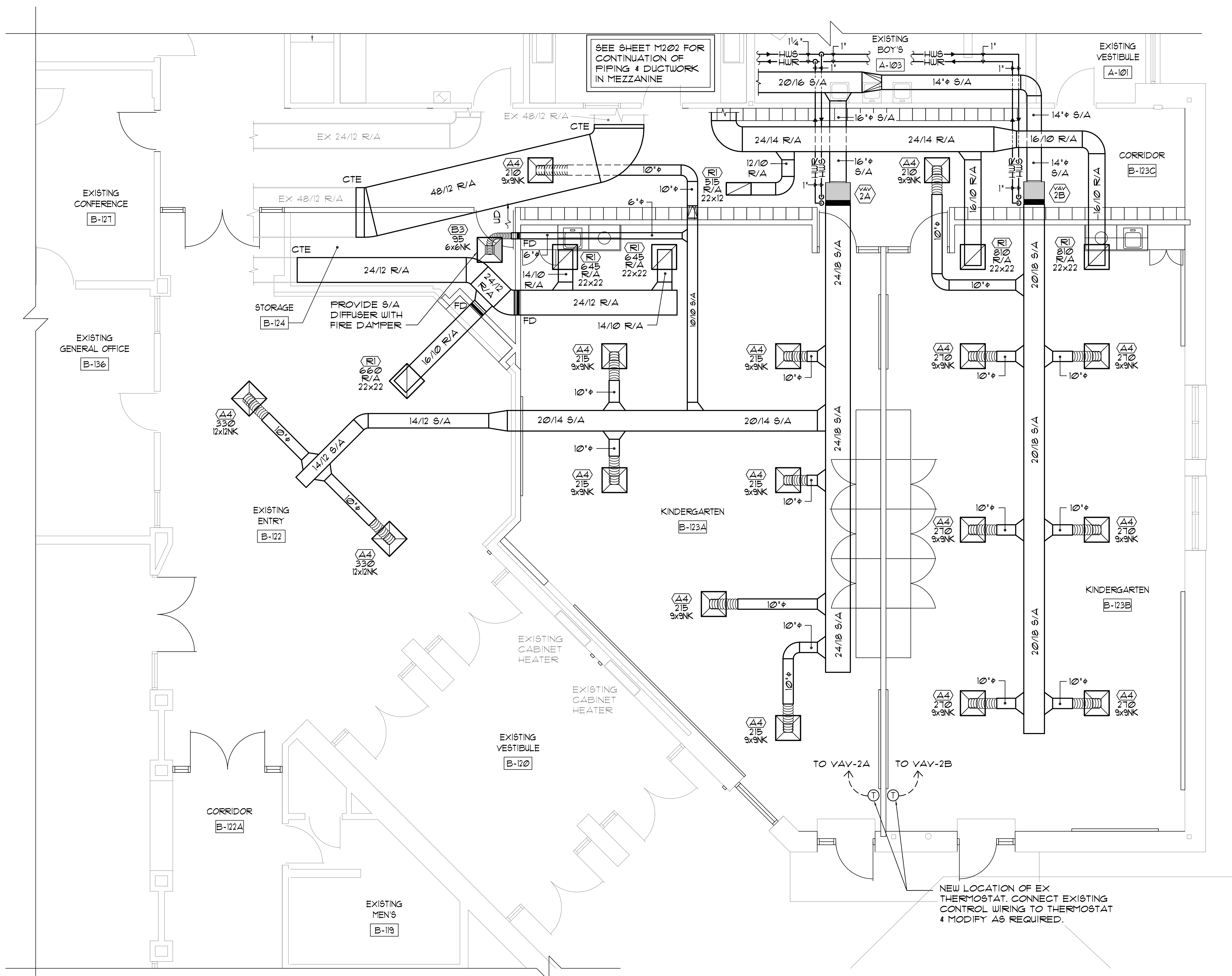
DUNELAND SCHOOL CORPORATION

**2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383**

PROJECT NUMBER: 15-008	REVISIONS:
PROJECT MANAGER: SKR	1
DRAWN BY:	2
	3
	4
ISSUED FOR BIDDING: 04/01/06	5
MECHANICAL EXISTING PLAN	



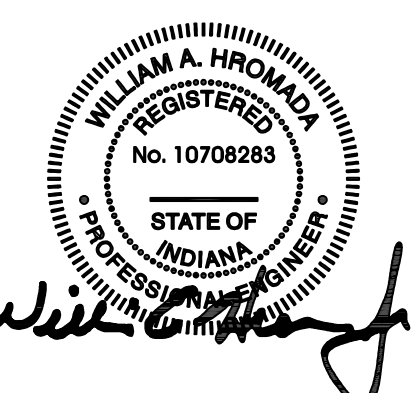
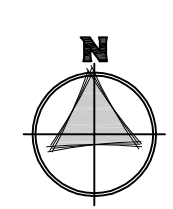
M101



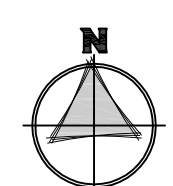
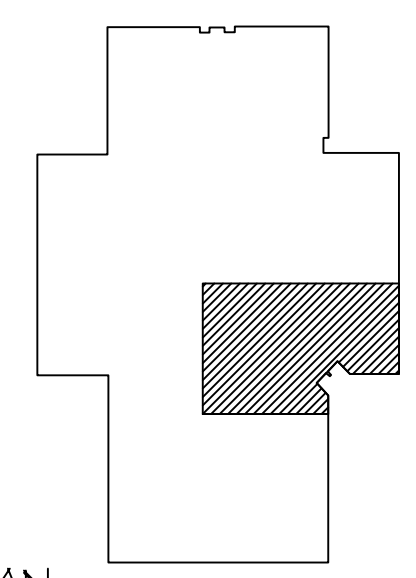
SEE SHEET M202 FOR CONTINUATION OF PIPING & DUCTWORK IN MEZZANINE

NEW LOCATION OF EX THERMOSTAT. CONNECT EXISTING CONTROL WIRING TO THERMOSTAT & MODIFY AS REQUIRED.

1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"



KEY PLAN
NOT TO SCALE

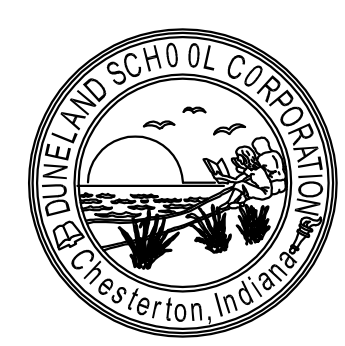


STRUCTURAL CONSULTANT:
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1505 E. 10th Street, Suite 100
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(P) 317.332.1000 (F) 317.332.1001

MEP CONSULTANT:
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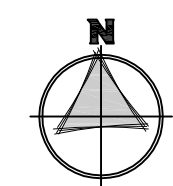
DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	REVISION:
PROJECT MANAGER: SJS	1
DRAWN BY:	2
USED FOR BIDDING: AUG/2015	3
MECHANICAL FLOOR PLAN	



M201

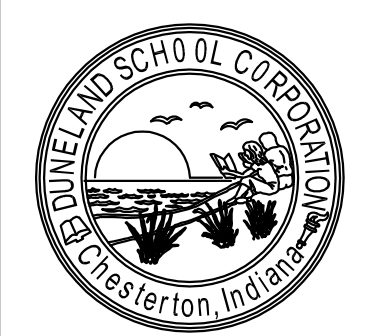
1. REMOVE EXISTING VARIABLE AIR VOLUME BOX AND ASSOCIATED EXISTING SUPPLY AIR DUCTWORK, HOT WATER PIPING, CONTROLS, ETC. COMPLETE AS REQUIRED.



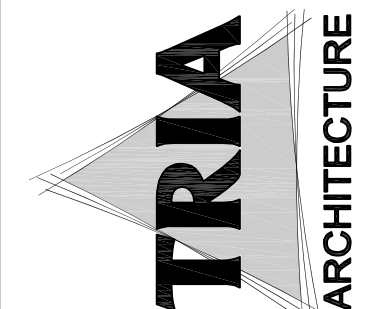
**2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383**

REVISIONS:	△
PROJECT NUMBER: 5-008	△
PROJECT MANAGER: SACR	△
DRAWN BY:	△
	△
	△
ISSUED FOR BIDDING: 04/01/05	△

MECHANICAL MEZZANINE PLANS



M202

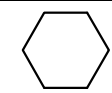


Larson Engineering, Inc.
1488 BOND STREET, SUITE 10
NORWELL, MASS 02061-5003

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(F) 630-257-1064

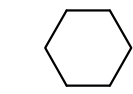
TEP CONSULTANT:
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EX AHU-JA-2 VAV TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	INLET DIA.	CFM SETTING		HW REHEAT COIL DATA				CONTROL SEQUENCE		REMARKS
				MAX CFM	MIN CFM	MBH	GPM	WPD	EWT	OPEN/ CLOSED	OPEN/CLOSED/ OPEN	
2A	JOHNSON CONTROLS	TSS-WC-16	16'	2,255	565	73.4	7.3	5'	160	-	X	-
2B	JOHNSON CONTROLS	TSS-WC-14	14'	1,810	455	58.9	5.9	5'	160	-	X	-



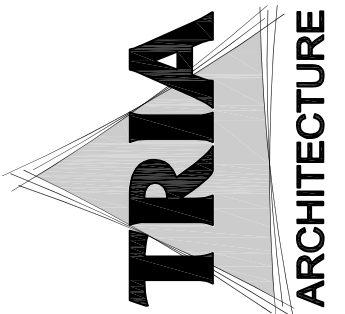
GRILLE, REGISTER & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	TYPE OF CONTROL	REMARKS
A4	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' X 2' LAY-IN PANEL	SEE PLANS	O.B.D.	-
B3	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	3-WAY	SURFACE MOUNTED	SEE PLANS	O.B.D.	-
R1	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	O.B.D.	-

* ALL DIFFUSERS AND REGISTER SHALL HAVE A WHITE FINISH UNLESS OTHERWISE NOTED

SYMBOLS/ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
	SQUARE TO ROUND TRANSITION		SEE SCHEDULES	AH	AIR HANDLING UNIT
	EXISTING DUCTWORK		SHEET NOTE	CFM	CUBIC FEET PER MINUTE
	NEW DUCTWORK		VAV W/ HOT WATER REHEAT COIL	CTE	CONNECT TO EXISTING
	DUCTWORK TO BE REMOVED		THERMOSTAT - ADJUSTABLE	DN.	DOWN
	DUCT TRANSITION		HWS HOT WATER SUPPLY PIPING	EWT	ENTERING WATER TEMPERATURE
	CAP EXISTING DUCTWORK AS REQUIRED		HWR HOT WATER RETURN PIPING	EX	EXISTING
	NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK		PIPING TO BE REMOVED	GPM	GALLONS PER MINUTE
	SUPPLY AIR DUCT DOWN		EXISTING PIPING	HWS	HOT WATER SUPPLY
	SUPPLY AIR DUCT UP		PIPE TURNED UP	HWR	HOT WATER RETURN
	RETURN OR EXHAUST DUCT DOWN		PIPE TURNED DOWN	HW	HOT WATER
	RETURN OR EXHAUST DUCT UP		UNION	LWT	LEAVING WATER TEMPERATURE
	FLEXIBLE DUCTWORK		CIRCUIT SETTER	MBH	1,000 BTU/HOUR
	AUTOMATIC (MOTORIZED) DAMPER		SHUT-OFF VALVE	MV	MANUAL AIR VENT
	RETURN OR EXHAUST REGISTER		STRAINER	NK	NECK
	SUPPLY AIR DIFFUSER		2-WAY AUTOMATIC VALVE	NTS	NOT TO SCALE
			MANUAL AIR VENT	OBD	OPPOSED BLADE DAMPER
				R/A	RETURN AIR
				S/A	SUPPLY AIR
				TYP	TYPICAL
				UD	UNDERCUT DOOR
				VAV	VARIABLE AIR VOLUME
				WPD	WATER PRESSURE DROP



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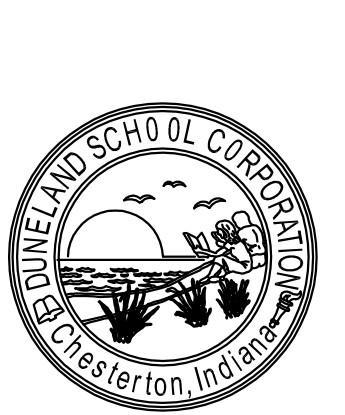
DUNELAND SCHOOL CORPORATION

2015

JACKSON ELEMENTARY SCHOOL RENOVATIONS

811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	REVISION:
PROJECT MANAGER: SCS	1
DRAWN BY:	2
USED FOR BIDDING: 04/02/05	3
SCHEDULES AND ABBREVIATIONS	



M301



GENERAL NOTES

- A. WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, AND STATE HVAC CODES.

B. LAYOUT IS DIAGRAMMATIC AND CONTRACTOR SHALL INSTALL DUCTWORK, PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.

C. LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE.

D. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) BEFORE ORDERING ANY EQUIPMENT.

E. VERIFY LOCATION AND ELEVATION OF EQUIPMENT, DUCTWORK, PIPING , DIFFUSERS/GRILLES, THERMOSTATS, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.

F. COORDINATE LOCATION OF CEILING REGISTERS, GRILLES AND DIFFUSERS WITH LIGHTING LAYOUT, SPRINKLER HEADS, AND CEILING GRID. SEE ARCHITECTURAL REFLECTED CEILING PLAN. VERIFY EXACT LOCATION IN FIELD PRIOR TO INSTALLATION. VERIFY CEILING STYLES AND TYPES BEFORE ORDERING REGISTERS, GRILLES AND DIFFUSERS. PROVIDE APPROPRIATE FRAME STYLES AS REQUIRED TO MATCH CEILING STYLE AND TYPES. SET ADJUSTABLE BLADES AS REQUIRED FOR OPTIMUM AIR PATTERN AND TO PREVENT DRAFTS. THE MINIMUM DISTANCE BETWEEN SUPPLY DIFFUSERS/REGISTERS AND SMOKE OR HEAT DETECTORS IS TO BE A MINIMUM OF 3'. COORDINATE WITH FIRE ALARM SYSTEM AS REQUIRED.

G. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH OTHER TRADES. ROUTE DUCTWORK BETWEEN AND THROUGH JOIST SPACES AND BETWEEN LIGHT FIXTURES AS REQUIRED. VERIFY CONDITIONS AND DUCTWORK ROUTING IN FIELD PRIOR TO INSTALLATION.

H. DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

I. FLEXIBLE DUCTWORK SHALL BE UL LABELED FOR USE IN RETURN AIR PLENUM. ACOUSTICAL FLEXIBLE DUCTWORK AT THE INLET TO AIR DIFFUSERS MAY BE USED. FLEXIBLE CONNECTIONS SHALL BE 5'-0" MAXIMUM LENGTH, AND SHALL BE SUPPORTED WHERE REQUIRED TO PREVENT MOVEMENT.

J. PROVIDE MANUAL BALANCING DAMPERS AT EACH LOW PRESSURE SUPPLY AIR, RETURN AIR AND EXHAUST DUCTWORK TAKE-OFF INCLUDING TAKEOFFS TO EACH AIR DISTRIBUTION DEVICE. DAMPERS SHALL HAVE LOCKING QUADRANT REGULATORS WITH SPRING LOADED END BEARING. INSTALLATION SHALL BE RATTLE FREE. BE RESPONSIBLE FOR LOCATING BALANCING DEVICES AND COORDINATE LOCATIONS FOR TESTING AND BALANCING.

K. RETURN AIR OPENINGS IN CEILING PLENUMS ARE TO BE COVERED BY 1/2" X 1/2" SCREEN MESH. PROVIDE ADDITIONAL TRANSFER AIR OPENINGS THROUGH WALLS DIVIDING CEILING RETURN PLENUMS. PROVIDE FIRE OR SMOKE/FIRE DAMPERS IN OPENINGS AS NECESSARY.

L. LOCATE VAV BOXES IN ACCESSIBLE LOCATIONS. ARRANGE CONTROLS OF VAV BOX AS REQUIRED FOR MAXIMUM ACCESSIBILITY. PROVIDE ACCESS DOORS WHEN REQUIRED. MEDIUM PRESSURE DUCTWORK TAKE-OFFS TO VAV BOXES SHALL BE MADE WITH 45 DEGREE TAKE-OFF FITTINGS, CONICAL FITTINGS, AND/OR ENLARGED ENTRANCE LOW-LOSS TAKE-OFF FITTINGS. PROVIDE MINIMUM 2'-0" STRAIGHT INLET DUCT TO UPSTREAM OF VAV BOXES. PROVIDE DUCTWORK TRANSITION FROM VAV BOX OUTLET TO DUCT SIZE DOUNSTREAM OF VAV BOX INDICATED ON PLAN.

M. VERIFY EXACT THERMOSTAT AND SENSOR LOCATIONS IN FIELD PRIOR TO ROUGH-IN OR INSTALLATION. CONTROL WIRING TO BE ROUTED IN CONDUIT. CUT AND PATCH EXISTING WALL CONSTRUCTION AS REQUIRED TO CONCEAL CONDUIT IN WALL.

N. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY EQUIPMENT, DUCTWORK AND PIPING AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

O. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING MECHANICAL SYSTEMS.

P. VISIT SITE PRIOR TO BIDDING TO FULLY DETERMINE FIELD CONDITIONS AND TO VERIFY EXISTING MECHANICAL SYSTEMS INCLUDING QUANTITIES AND LOCATIONS TO DETERMINE THE FULL EXTENT OF NEW AND DEMOLITION WORK.

Q. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW MECHANICAL SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET SCOPE OF NEW WORK.
- R. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY. BE RESPONSIBLE TO PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REVIEWED AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

S. ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. OTHERWISE, BE RESPONSIBLE FOR ANY AND REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.

T. REMOVE EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. PRESENTLY SERVING AREAS THAT ARE BEING RENOVATED AND THAT ARE NOT REQUIRED TO STAY IN SERVICE. NO EQUIPMENT, DUCTWORK, PIPING, SUPPORTS, HANGERS, ETC. IS TO BE LEFT ABANDONED. VERIFY QUANTITY, LOCATION AND ELEVATION OF EXISTING TO BE REMOVED IN FIELD. REMOVE EXISTING ABANDONED EQUIPMENT, DUCTWORK AND PIPING IN AREAS THAT ARE TO BE RENOVATED.

U. REMOVED DUCTWORK, PIPING AND CONTROLS ARE TO BE TERMINATED PROPERLY BACK TO EXISTING MAINS. PATCH AND SEAL EXISTING DUCTWORK AIRTIGHT. CAP PIPING WATERTIGHT. PROVIDE ADDITIONAL DUCTWORK, PIPING AND CONTROLS AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS MODIFIED DUE TO REMOVAL OF PORTION OF SYSTEMS. REPAIR DAMAGED DUCTWORK AND PIPING INSULATION DUE TO NEW INSTALLATION WORK.

V. EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF EQUIPMENT IS TO BE STORED ON SITE AT OWNER SELECTED LOCATION OR IF EQUIPMENT IS TO BE ABANDONED OR REMOVED FROM SITE BY CONTRACTOR.

W. PATCH EXISTING CEILING, FLOOR, WALL AND ROOF OPENINGS AND SURROUNDING FINISHES RESULTING FROM REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT FINISH WILL MATCH EXISTING IN SURROUNDING AREAS. OPENINGS IN MASONRY WALLS RESULTING FROM REMOVED THERMOSTATS ARE TO BE COVERED WITH A BLANK STAINLESS STEEL COVER PLATE.

X. PROVIDE AND INSTALL PVC PIPE PLENUM WRAP, TESTED TO UL 84 AND UL 910, FOR ALL EXISTING PVC PIPING IN NEW OR EXISTING RETURN AIR CEILING PLENUMS.

Y. PROVIDE FINISHING OF EXISTING CEILING, FLOOR, AND WALL SURFACES AT LOCATIONS AFFECTED BY REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT NEW FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.

BB. REMOVE EXISTING CEILINGS AND LIGHT FIXTURES REQUIRED FOR INSTALLATION OF NEW WORK. REINSTALL CEILING AND LIGHT FIXTURES UPON COMPLETION OF WORK. REPLACE DAMAGED CEILING MATERIALS TO MATCH EXISTING.

CC. PROVIDE CUTTING, CORE DRILLING AND PATCHING OF EXISTING WALL AND ROOF CONSTRUCTIONS REQUIRED FOR THE INSTALLATION OF NEW DUCTWORK, PIPING AND EQUIPMENT. SEAL PENETRATIONS THROUGH WALL AND ROOF STRUCTURE WATERTIGHT AND WITH AN APPROVED FIRE STOPPING MATERIAL, INCLUDING APPROVED FIRE RATED SLEEVE.

DD. PROVIDE STEEL LINTELS FOR NEW OPENINGS THROUGH EXISTING MASONRY WALLS AS REQUIRED. LINTELS TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS: TWO (2) 3-1/2"X3-1/2"X 5/16" ANGLES WITH 5/16" PLATE (1/2" LESS THAN WALL THICKNESS). PROVIDE W8X10 WITH 5/16" PLATE FOR OPENINGS ABOVE 48" WIDE.

EE. PROVIDE AN APPROVED SURFACE MOUNTED RACEWAY AS REQUIRED FOR INSTALLATION OF NEW THERMOSTATS ON EXISTING WALLS TO CONCEAL CONTROL WIRING. SUBMIT SAMPLE OF RACEWAY FOR REVIEW. COORDINATE ROUTING OF RACEWAYS WITH EXISTING BUILDING CONDITIONS AND ADJUST ROUTING TO AVOID CONFLICTS AND TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE MOUNTED RACEWAY.

FF. REPAIR AND/OR REPLACE DAMAGED PIPE INSULATION THAT OCCURS AS THE RESULT OF THIS CONSTRUCTION.

GG. MINIMUM SIZE FOR HOT WATER HEATING SUPPLY AND RETURN PIPING TO BE 3/4".

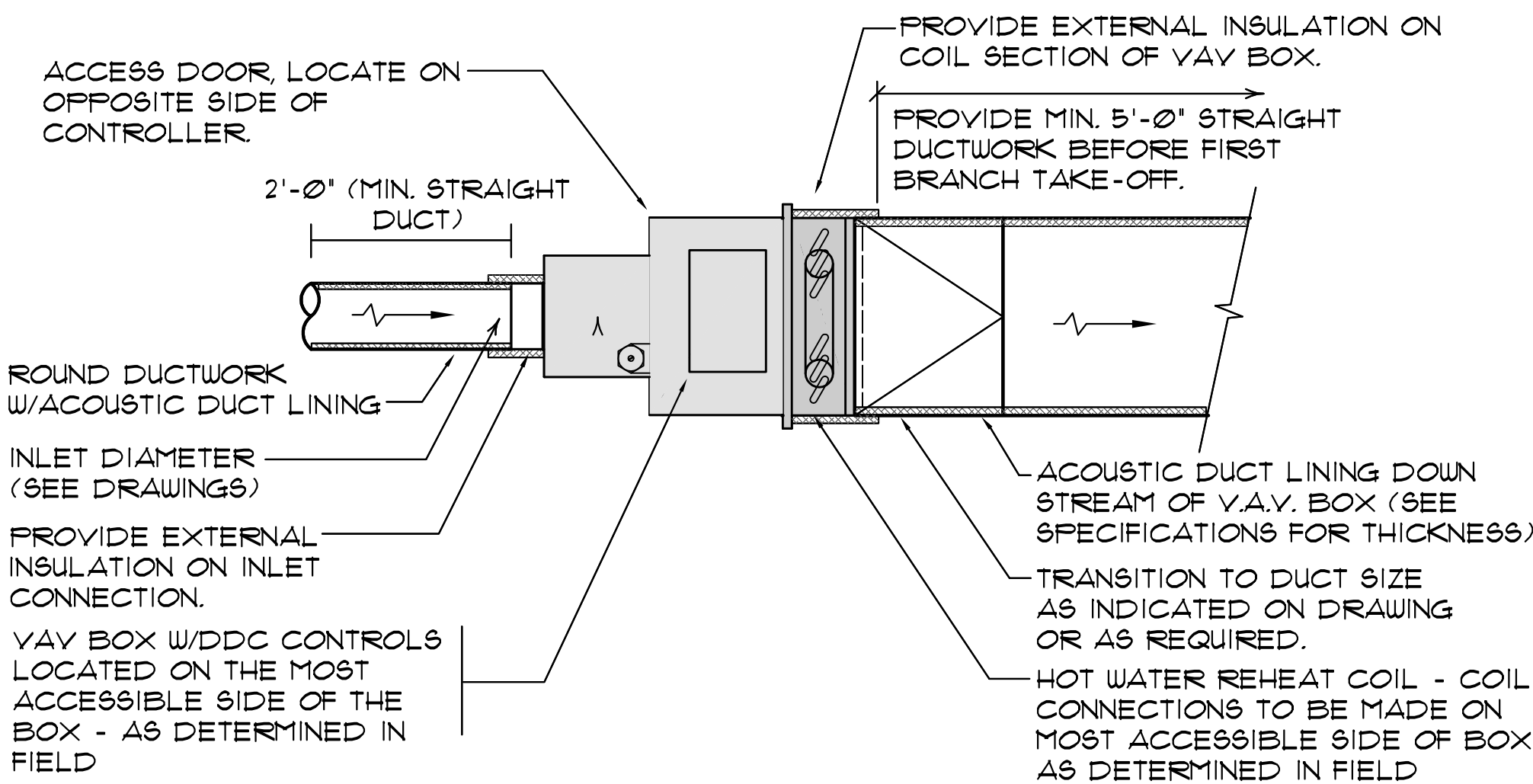
HH. DRAIN AND REFILL EXISTING PIPING SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW WORK. PROVIDE CHEMICAL TREATMENT, GLYCOL/ANTI-FREEZE MIXTURE FOR WATER PIPING SYSTEM ACCORDING TO OWNER'S REQUIREMENTS AFTER SYSTEM IS FILLED AND VENTED. PROPERLY VENT PIPING SYSTEMS.

II. PROVIDE A WATERTIGHT SHEET METAL DRIP PAN OVER ELECTRICAL EQUIPMENT INSTALLED UNDER OR NEAR PIPING SYSTEMS. DRIP PAN TO EXTEND MINIMUM 3' OVER FRONT AND SIDES OF ELECTRICAL EQUIPMENT AND BE PITCHED AT A MINIMUM 30 DEGREE ANGLE. SEAL DRIP PAN WATERTIGHT TO WALL.

JJ. REMOVE EXISTING DOORS AND PORTIONS OF WALLS, CEILINGS, ETC. AS REQUIRED TO INSTALL NEW MATERIAL AND EQUIPMENT IN EXISTING LOCATIONS. REBUILD WALLS, CEILINGS AND REINSTALL EXISTING DOORS AS REQUIRED AFTER INSTALLATION OF NEW MATERIAL AND EQUIPMENT. PATCH AND FINISH TO MATCH EXISTING.

TYPICAL VAV BOX DETAIL

NTS

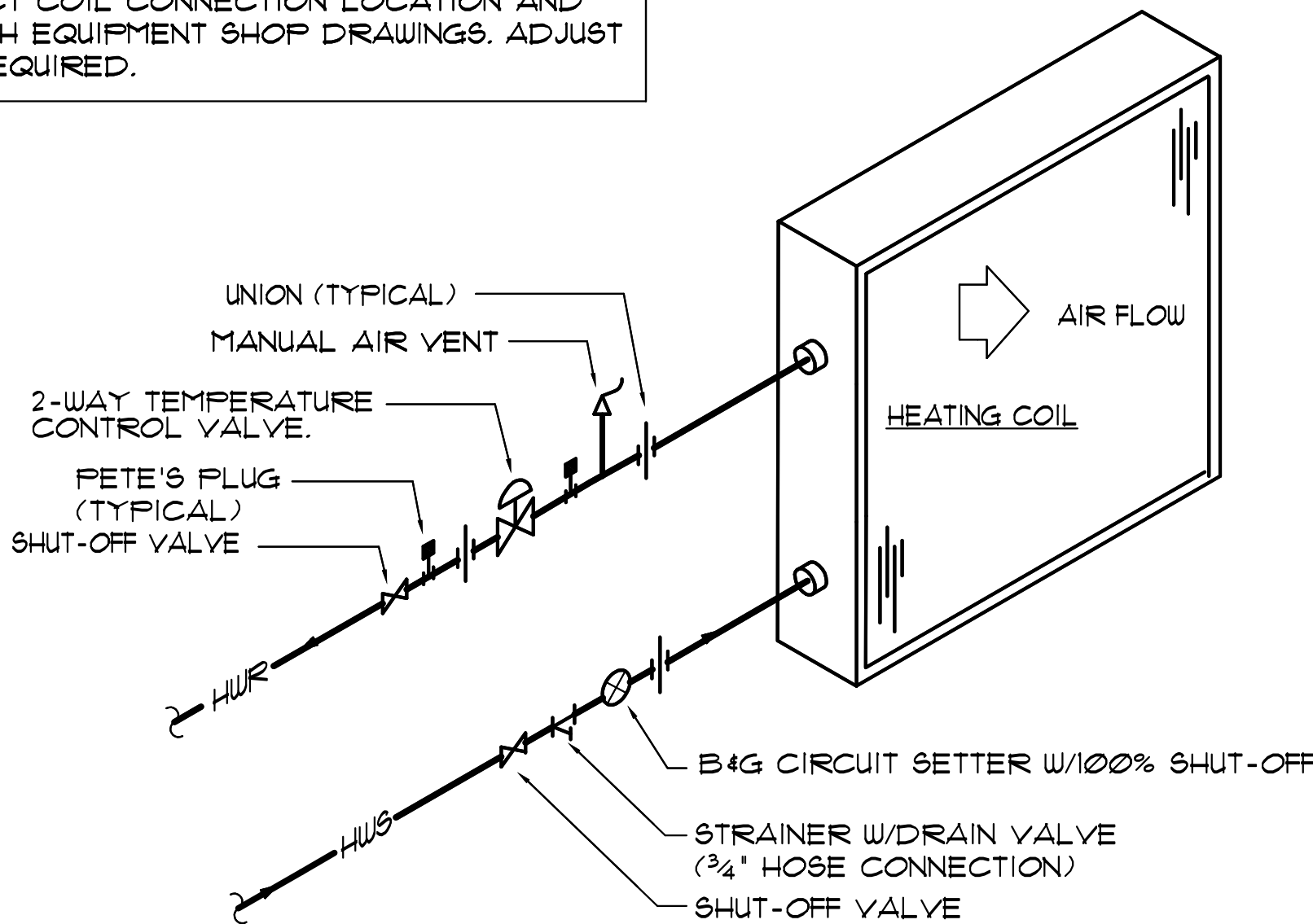


HOT WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR VAV BOXES & CABINET HEATERS (2-WAY CONTROL VALVE)

NOTE: VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

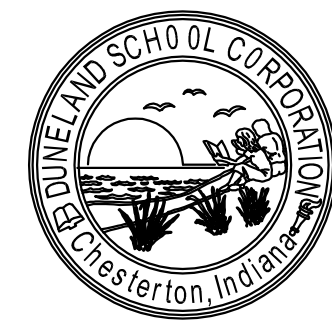


WILLIAM A. HROMADA
REGISTERED
No. 10708283
STATE OF INDIANA
PROFESSIONAL ENGINEER

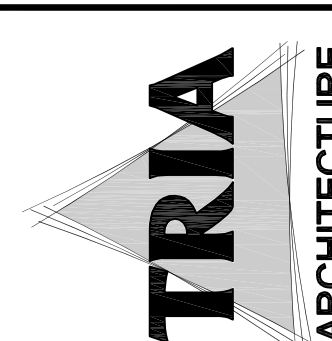
DUNELAND SCHOOL CORPORATION

2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	REVISIONS:
PROJECT DATES: 5/15	1
DRAWN BY: JAC	2
DATE FOR BIDDING: 8/10/2015	3
NOTES: DETAILS AND DIAGRAMS	

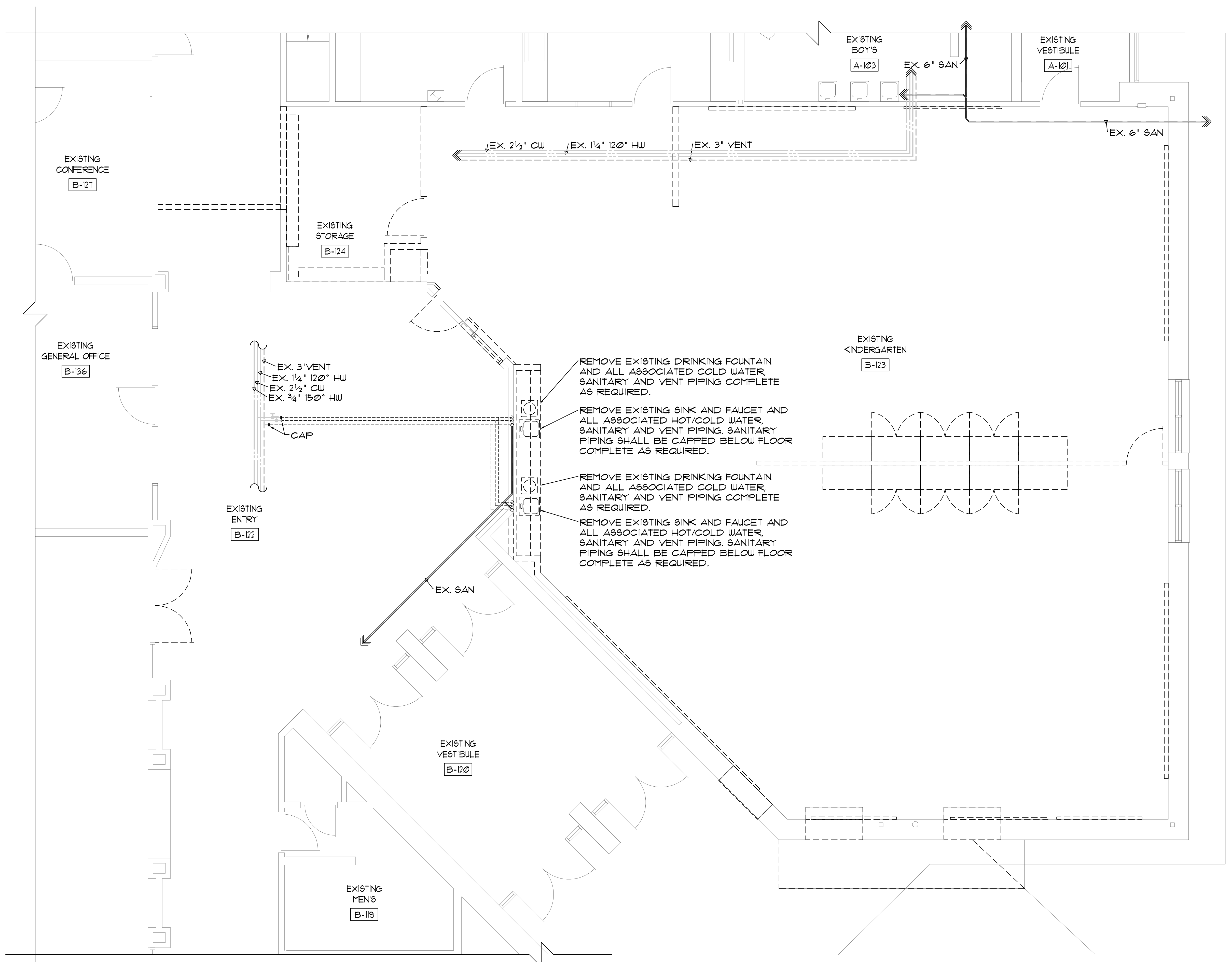


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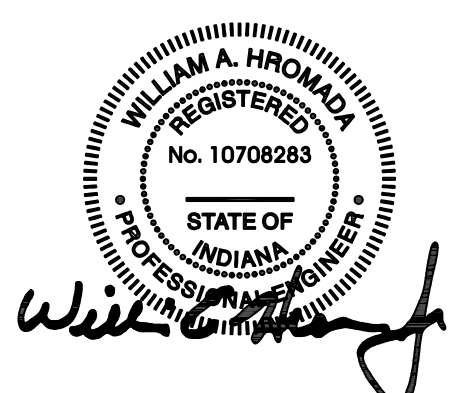
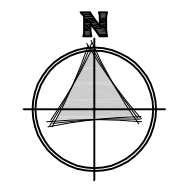


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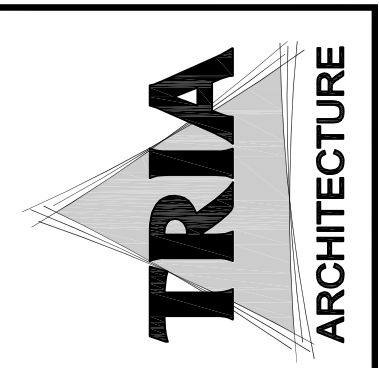
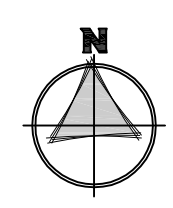
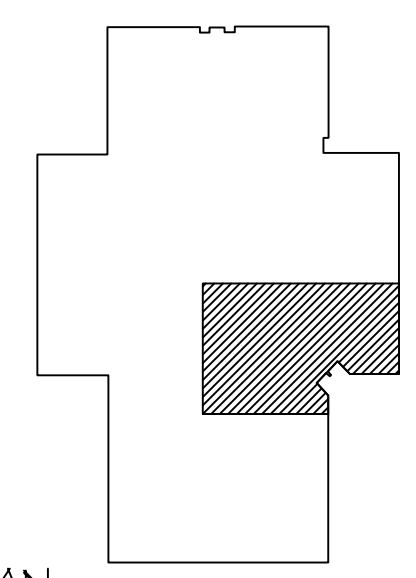
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1 PLUMBING EXISTING PLAN
1/4" = 1'-0"



KEY PLAN
NOT TO SCALE

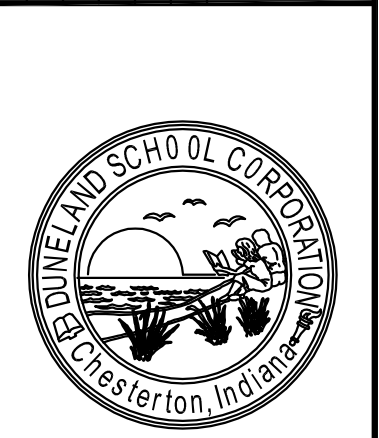


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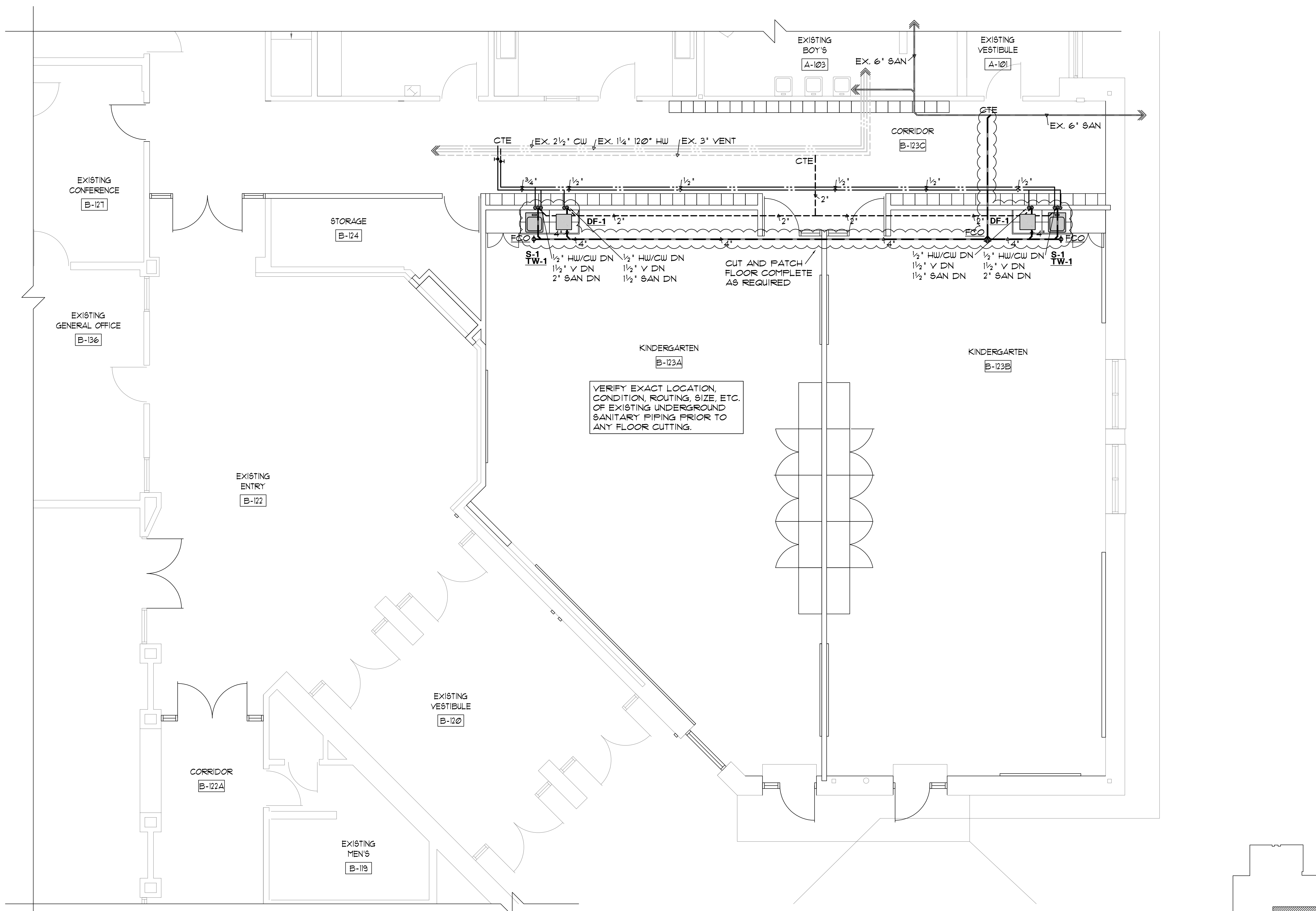
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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

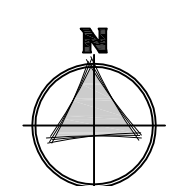
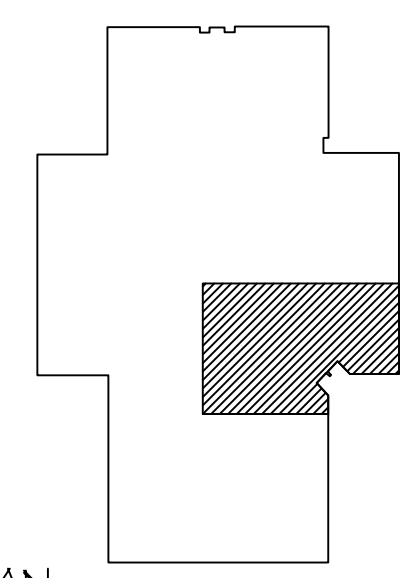
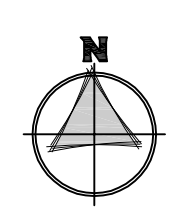
PROJECT NUMBER: E-008	REVISION:
PROJECT DATES: 5/05	1
DRAWN BY:	2
ISSUED FOR BIDDING: 8/05	3
PLUMBING EXISTING PLAN	4



P101



1 PLUMBING FLOOR PLAN
1/4" = 1'-0"



KEY PLAN
NOT TO SCALE

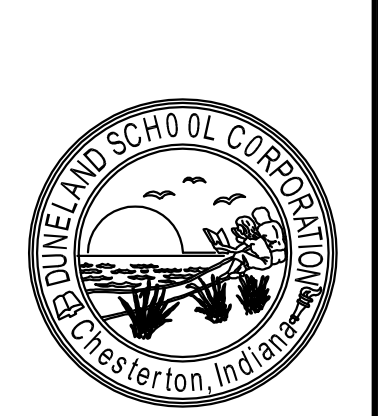


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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

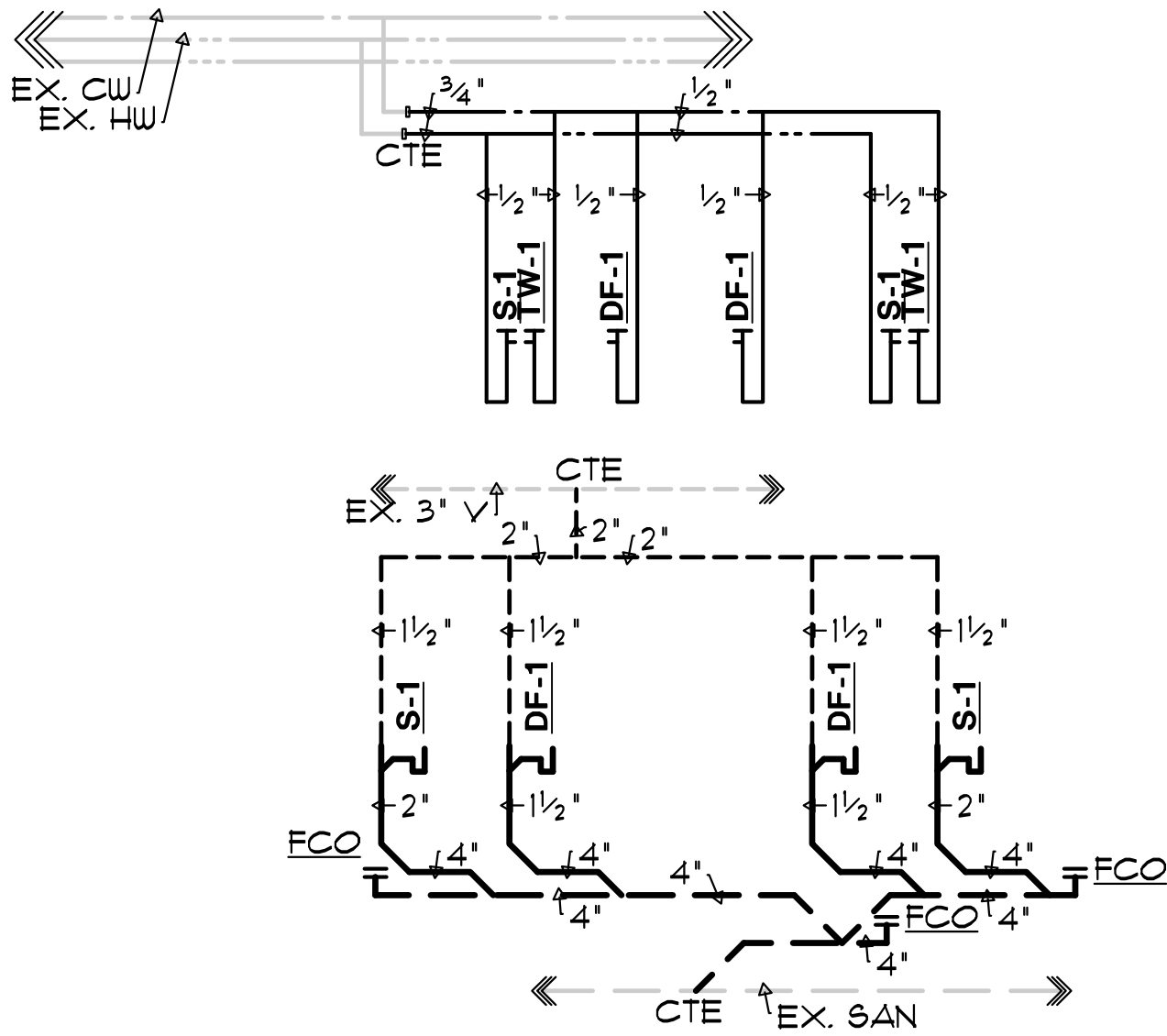
PROJECT NUMBER:	E-008
PROJECT MANAGER:	SJS
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PLUMBING EQUIPMENT AND FIXTURE SCHEDULE								
TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPT. MANUF.	FIXTURE VALVE/FAUCET TYPE	FIXTURE VALVE/FAUCET TYPE	ACCEPT. MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
S-1	SINK	SINGLE COMPARTMENT STAINLESS STEEL SINK, 15"x15"	ELKAY #BLR-150-C	NOTE #2	2 HANDLE, HIGH GOOSENECK (INCLUDED)	ELKAY #LKD-2223	NOTE #3	MCGUIRE #B-8912-C9DF P-TRAP, MCGUIRE #H216TCCLK SUPPLIES
DF-1	DRINKING FOUNTAIN	COUNTERTOP MOUNTED	HAWS #4210 W/ 5051LF BUBBLER	NOTE #1	-	-	-	-
TW-1	TEMPERED WATER VALVE	TEMPERED WATER VALVE	BRADLEY SERIES #353	NOTE #4	-	-	-	VALVE RATED AT 2 GPM @ 5 PSI PRESSURE DROP (MIN. FLOW 0.5 GPM)

NOTE #1: OASIS, HAWS, ELKAY
NOTE #2: JUST
NOTE #3: ZURN, DELTA, T45 BRASS, CHICAGO FAUCET CO., SYMMONS
NOTE #4: LEONARD, POWERS, LAWLER

PLUMBING RISER DIAGRAMS



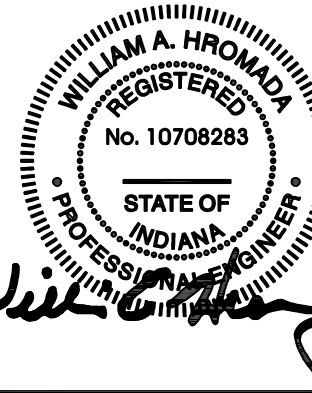
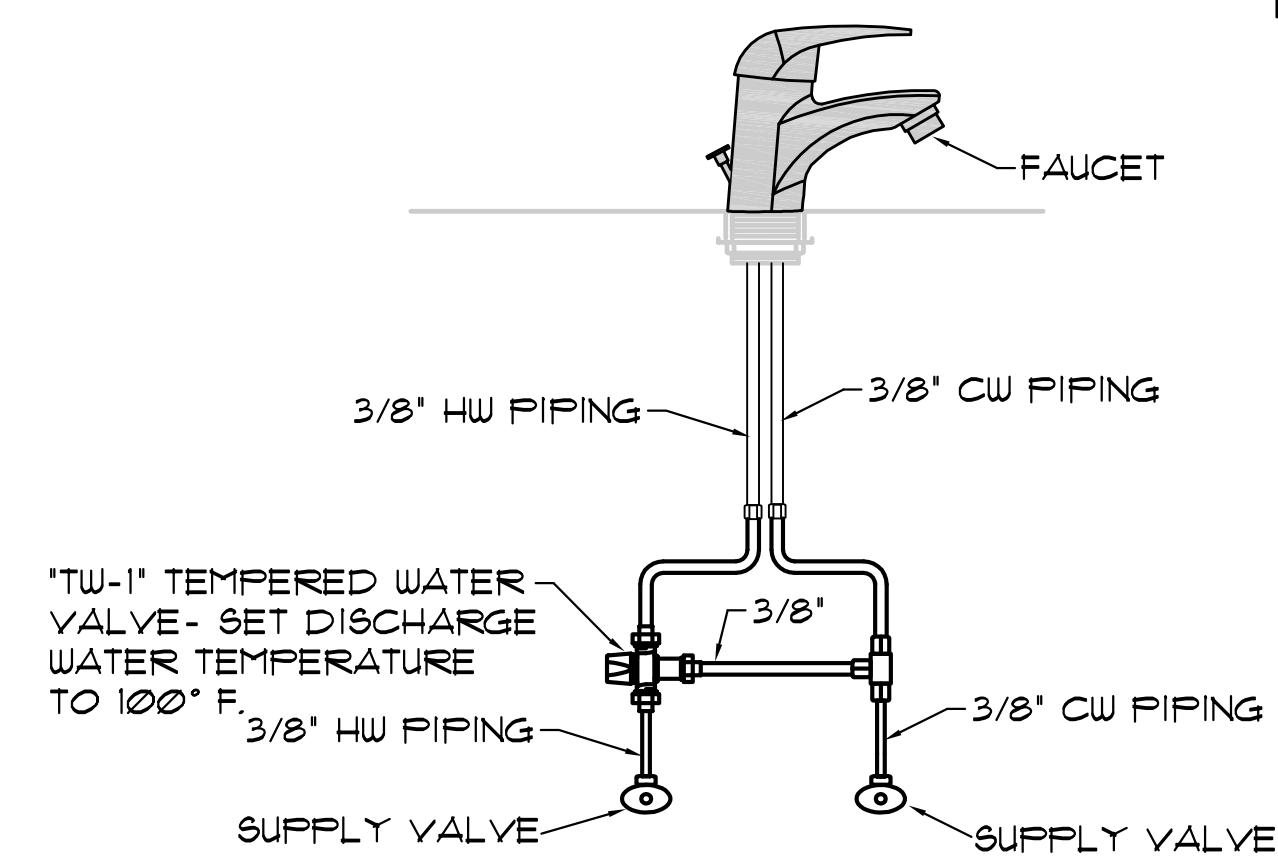
GENERAL NOTES

- WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, AND STATE PLUMBING CODES AND ILLINOIS LIFE SAFETY CODE FOR SCHOOLS.
- LAYOUT IS DIAGRAMMATIC. INSTALL PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.
- LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE.
- SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING PLUMBING SYSTEMS.
- VERIFY LOCATION AND ELEVATION OF PLUMBING EQUIPMENT, FIXTURES, PIPING, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.
- COORDINATE VENT THROUGH ROOF LOCATIONS WITH OUTDOOR AIR INTAKE LOCATIONS TO MAINTAIN A MINIMUM SEPARATION OF TEN FEET.
- VISIT SITE PRIOR TO BIDDING TO DETERMINE FIELD CONDITIONS. VERIFY EXISTING PLUMBING SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE EXTENT OF NEW AND DEMOLITION WORK. VERIFY EXISTING SANITARY PIPING SYSTEMS AS TO ROUTING, SIZE AND INVERT ELEVATION PRIOR TO ANY INSTALLATION OF NEW AND REMOVAL OF ANY EXISTING.
- COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW PLUMBING SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, FIXTURES AND PIPING, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.
- REMOVE EXISTING EQUIPMENT, FIXTURES, PIPING, ETC. PRESENTLY SERVING AREAS THAT ARE BEING RENOVATED AND THAT ARE NOT REQUIRED TO STAY IN SERVICE. NO EQUIPMENT, FIXTURES, PIPING, SUPPORTS, HANGERS, ETC. IS TO BE LEFT ABANDONED. VERIFY QUANTITY, LOCATION AND ELEVATION OF EXISTING TO BE REMOVED IN FIELD. REMOVE EXISTING ABANDONED EQUIPMENT, FIXTURES AND PIPING IN AREAS THAT ARE TO BE RENOVATED.
- EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR. PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REPORTED IN WRITTEN FORM FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
- ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.
- PROVIDE CUTTING, TRENCHING AND PATCHING OF EXISTING FLOOR SLAB REQUIRED FOR THE INSTALLATION OF NEW UNDERGROUND PIPING.
- PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT AND FIXTURES. SET FIXTURES/EQUIPMENT AND FURNISH AND INSTALL NECESSARY FITTINGS, TRAPS, STOPS, ETC. AS REQUIRED.
- ISOLATION VALVES SHALL BE INSTALLED OVER ACCESSIBLE CEILINGS. WHEN ISOLATION VALVES ARE INSTALLED OVER INACCESSIBLE CEILING AREAS, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL 12" X 12" (MINIMUM) CEILING ACCESS DOORS. TYPE TO BE VANDALPROOF, TAMPERPROOF ASSEMBLIES. INSTALLATION TO BE COORDINATED WITH GENERAL CONTRACTOR.
- REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- PROTECT NEW AND EXISTING DRAIN OPENINGS AND SANITARY LINES DURING CONSTRUCTION TO PREVENT BLOCKAGE. ROD-OUT EXISTING SANITARY PIPING. PIPING SHALL BE FREE OF BLOCKAGE.
- REPAIR AND/OR REPLACE DAMAGED PIPE INSULATION THAT OCCURS AS THE RESULT OF THIS CONSTRUCTION.

SYMBOL LIST

---	EXISTING UNDERGROUND SANITARY PIPING
---	EXISTING COLD WATER PIPING
---	EXISTING HOT WATER PIPING
---	EXISTING PIPING TO BE REMOVED
---	NEW UNDERGROUND SANITARY SEWER
---	NEW COLD WATER PIPING
---	NEW HOT WATER PIPING
---	NEW VENT PIPING
↓	PIPE DOWN
↑	PIPE UP
+	SHUT-OFF VALVE
Z	CHECK VALVE
◆	BALANCING COCK/MANUAL FLOW CONTROL VALVE
○	SHEET NOTE TAG
CTE	CONNECT TO EXISTING COLD WATER
CW	DRINKING FOUNTAIN
DN	DOWN
EX	EXISTING
FCO	FLOOR CLEANOUT
HW	HOT WATER
S	SINK
TW	TEMPERED WATER
V	VENT

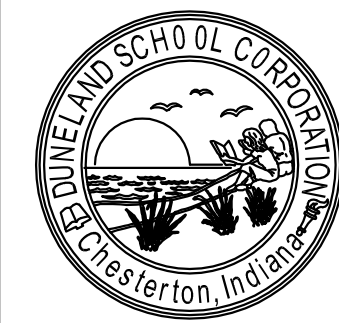
TEMPERED WATER VALVE DIAGRAM



DUNELAND SCHOOL CORPORATION

2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

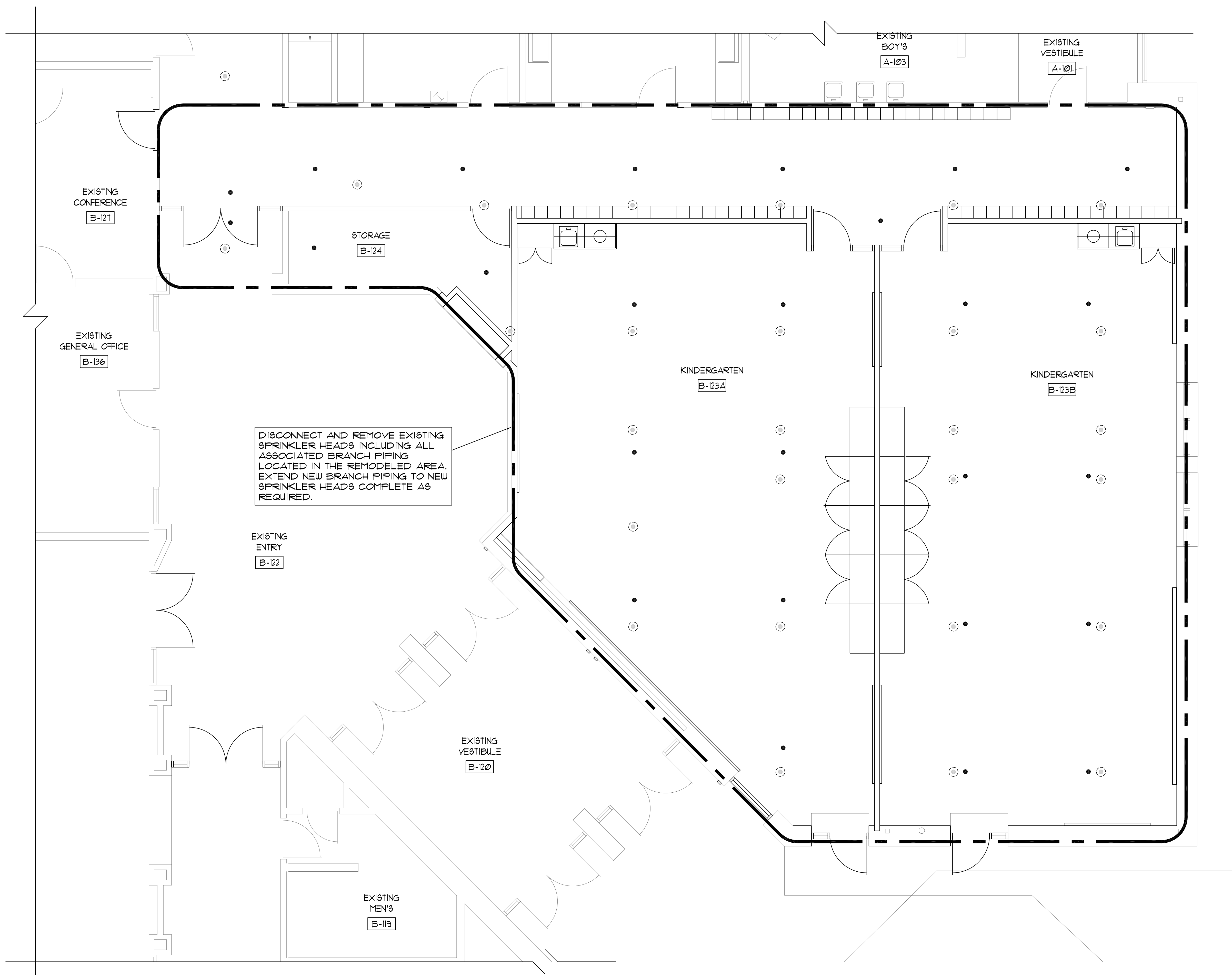
PROJECT NUMBER: E-008	REVISION:
PROJECT MANAGER: SCS	
DRAWN BY:	
USED FOR BIDDING: AUGUST 2015	
SCHEDULES, DETAILS AND DIAGRAMS	



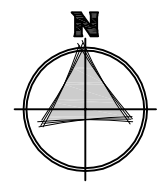
P301

STRUCTURAL CONSULTANT:
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(F) 630/326-0541
1805 E. 95TH STREET, SUITE 100
MORTDALE, ILLINOIS 60451-5003

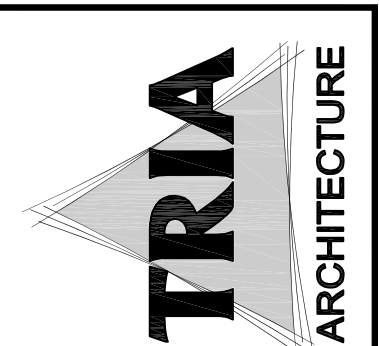
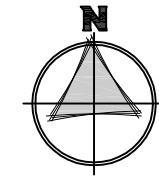
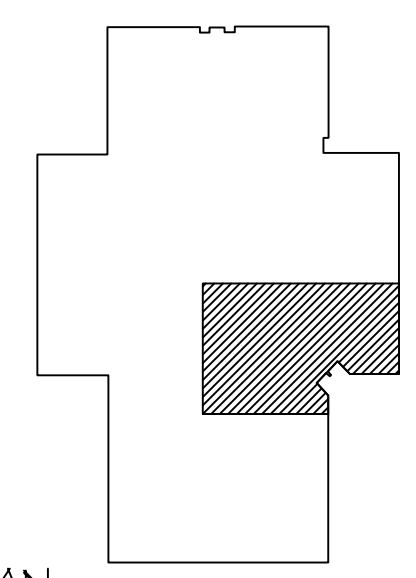
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1 FIRE PROTECTION FLOOR PLAN
1/4" = 1' - 0"



KEY PLAN
NOT TO SCALE



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DUNELAND SCHOOL CORPORATION
2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	REVISION:
PROJECT MANAGER: SJS	1
DRAWN BY:	2
ISSUED FOR BIDDING: 04/02/2015	3
FIRE PROTECTION FLOOR PLAN	



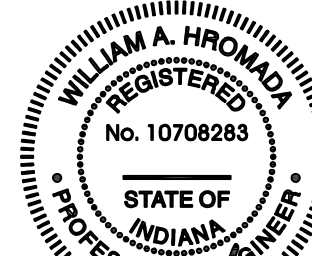
FP201

SYMBOL LIST	
●	NEW CONCEALED TYPE SPRINKLER HEAD WITH WHITE COVER PLATE
⊙	EXISTING SPRINKLER HEAD TO BE REMOVED
FP	FIRE PROTECTION

GENERAL NOTES	
A.	WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE FIRE PROTECTION CODES, THE LATEST NFPA 13 REQUIREMENTS.
B.	THE REMODELED AREA SHALL HAVE THE EXISTING SPRINKLER SYSTEM MODIFIED WITH NEW SPRINKLER HEADS DESIGNED TO DELIVER A DENSITY OF .10 GPM OVER THE MOST REMOTE 1500 SQFT. CALCULATIONS SHALL BE IN ACCORDANCE WITH THE LATEST NFPA #13 CHAPTER FOR LIGHT HAZARD.
C.	LAYOUT IS DIAGRAMMATIC. INSTALL PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.
D.	COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY PIPING AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.
E.	SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING SYSTEMS.
F.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR HVAC DIFFUSER LAYOUT AND ELECTRICAL SPECIALTY DEVICES IN CONJUNCTION WITH ELECTRICAL LIGHTING, SPRINKLER HEAD LAYOUT, AND CEILING GRID SYSTEM.
G.	VISIT SITE PRIOR TO BIDDING TO DETERMINE FIELD CONDITIONS. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW FIRE PROTECTION SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.
H.	EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REPORTED IN WRITTEN FORM FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
I.	HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.
J.	COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW FIRE PROTECTION SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.
K.	REMOVE EXISTING SPRINKLER HEADS AND ASSOCIATED BRANCH SPRINKLER PIPING COMPLETE AS REQUIRED. EXTEND AND MODIFY EXISTING PIPING AS REQUIRED FOR NEW SPRINKLER HEAD LAYOUT.
L.	SPRINKLER HEADS IN FINISHED CEILING SPACES SHALL BE CONCEALED TYPE.
M.	SPRINKLER HEADS LOCATED IN SUSPENDED LAY-IN CEILING SYSTEMS SHALL BE CENTERED IN EACH RESPECTIVE TILE. PROVIDE 6" SWINGS TO PLACE THE SPRINKLER IN THE CENTER OF THE TILE.

GENERAL NOTES

- A. WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE FIRE PROTECTION CODES, THE LATEST NFPA 13 REQUIREMENTS.
- B. THE REMODELED AREA SHALL HAVE THE EXISTING SPRINKLER SYSTEM MODIFIED WITH NEW SPRINKLER HEADS DESIGNED TO DELIVER A DENSITY OF .10 GPM OVER THE MOST REMOTE 1500 SQFT. CALCULATIONS SHALL BE IN ACCORDANCE WITH THE LATEST NFPA #13 CHAPTER FOR LIGHT HAZARD.
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- E. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING SYSTEMS.
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- G. VISIT SITE PRIOR TO BIDDING TO DETERMINE FIELD CONDITIONS. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW FIRE PROTECTION SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.
- H. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REPORTED IN WRITTEN FORM FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
- I. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.
- J. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW FIRE PROTECTION SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.
- K. REMOVE EXISTING SPRINKLER HEADS AND ASSOCIATED BRANCH SPRINKLER PIPING COMPLETE AS REQUIRED. EXTEND AND MODIFY EXISTING PIPING AS REQUIRED FOR NEW SPRINKLER HEAD LAYOUT.
- L. SPRINKLER HEADS IN FINISHED CEILING SPACES SHALL BE CONCEALED TYPE.
- M. SPRINKLER HEADS LOCATED IN SUSPENDED LAY-IN CEILING SYSTEMS SHALL BE CENTERED IN EACH RESPECTIVE TILE. PROVIDE 6" SWINGS TO PLACE THE SPRINKLER IN THE CENTER OF THE TILE.

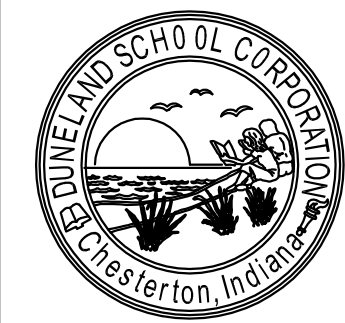


William A. Hroch

DUNELAND SCHOOL CORPORATION

2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008	REVISION:
PROJECT DATES: 5/15	1
DRAWN BY:	2
USED FOR BIDDING: 04/01/05	3
SCHEDULES, DETAILS AND DIAGRAMS	

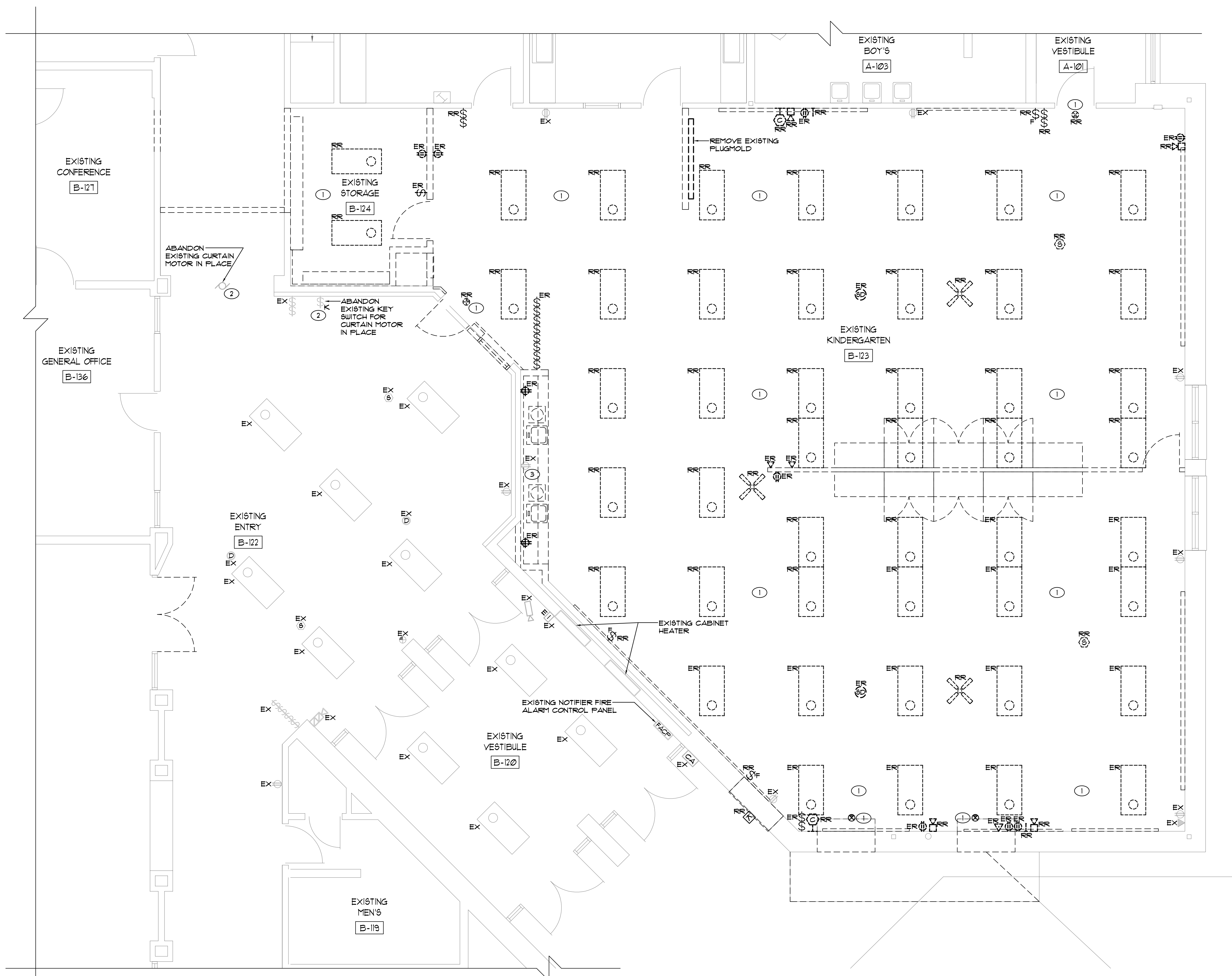


FP301

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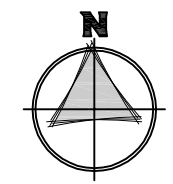
Millies Engineering Group
8711 W. WISCONSIN AVE.
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(P) 779.333.6600
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TRIA
ARCHITECTURE

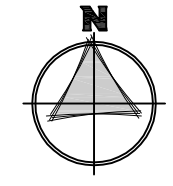
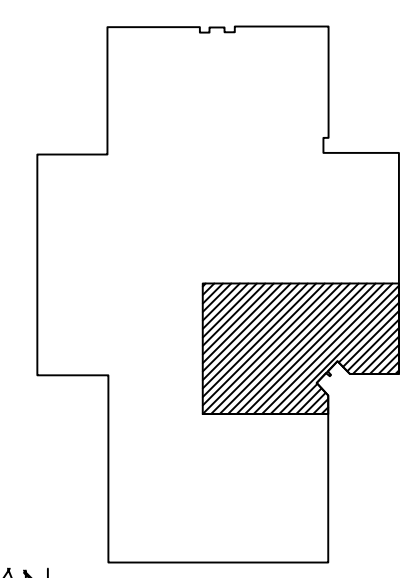


- SHEET NOTES**
1. DISCONNECT AND REMOVE EXISTING LIGHTING TO BE RELOCATED, LABELED "RR". RETAIN ALL ASSOCIATED WIRING, CONDUIT, ETC. FOR USE WITH RELOCATED LIGHT FIXTURES IN NEW LOCATIONS. SEE ELECTRICAL LIGHTING PLAN FOR NEW LIGHTING LOCATIONS.
 2. REMOVE EXISTING WIRING AND ACCESSIBLE CONDUIT BACK TO SOURCE.
 3. ELECTRICAL CONTRACTOR SHALL ADJUST THE BOX AND COVER FOR ELECTRICAL DEVICE TO AS THIN A PROFILE AS NECESSARY TO ACCOMMODATE THE REMOVE OF CASEWORK.

1 ELECTRICAL EXISTING PLAN
1/4" = 1' - 0"



KEY PLAN
NOT TO SCALE



TRI A
ARCHITECTURE

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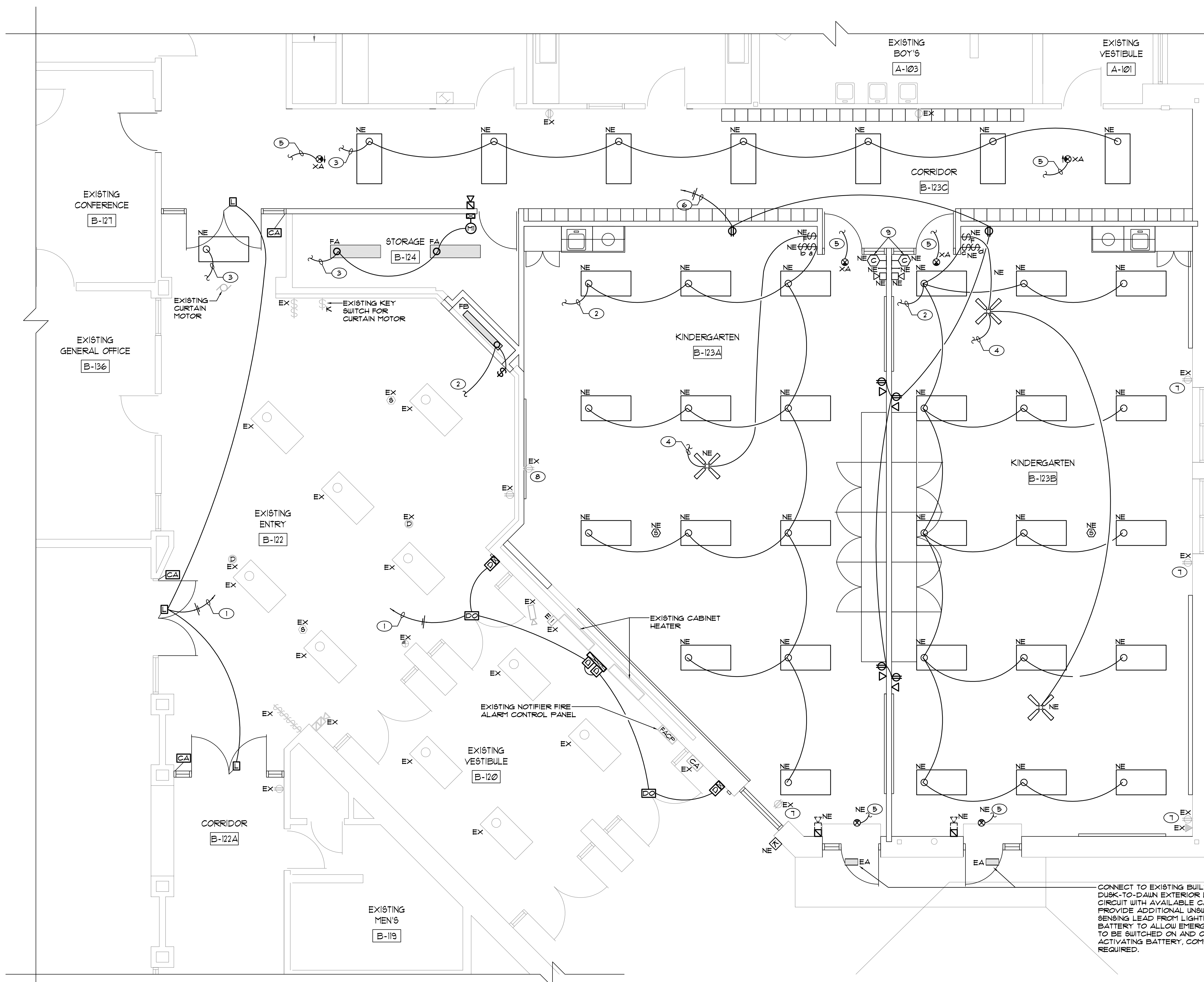
DUNELAND SCHOOL CORPORATION

2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

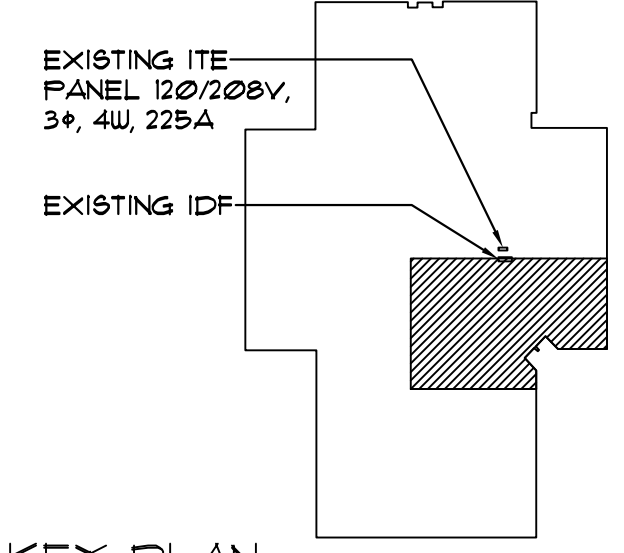
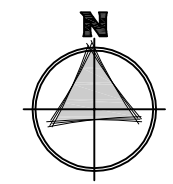
PROJECT NUMBER: E-008	REVISIONS:
PROJECT MANAGER: SCS	1
DRAWN BY:	2
USED FOR BIDDING: AUGUST 2015	3
ELECTRICAL EXISTING PLAN	

DUNELAND SCHOOL CORPORATION
Westfield, Indiana

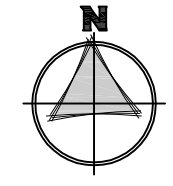
E101



1 ELECTRICAL FLOOR PLAN
1/4" = 1' - 0"



KEY PLAN
NOT TO SCALE



SHEET NOTES

- ROUTE 2 #12 4 1 #12 GRD IN 3/4" CONDUIT, CONCEALED, TO ONE (1) NEW 20A/1P CIRCUIT BREAKER IN AVAILABLE SPACE IN EXISTING PANEL. COORDINATE CONDITIONS AND REQUIREMENTS IN FIELD.
- RECONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITRY AND NEW RELOCATED SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 VOLT CIRCUIT AND 4400W PER 277 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
- RECONNECT RELOCATED LIGHT FIXTURES, LABELED 'NE', TO EXISTING LIGHTING CIRCUITRY AND SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 VOLT CIRCUIT AND 4400W PER 277 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
- RECONNECT EXISTING CEILING FANS TO EXISTING FAN CIRCUITRY AND RELOCATED SWITCHING DEVICES, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN 3/4" CONDUIT COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
- RECONNECT RELOCATED NEW EXIT SIGNS TO EXISTING EXIT SIGN CIRCUITRY.
- RECONNECT NEW RECEPTACLES TO EXISTING CIRCUITRY, COMPLETE AS REQUIRED, MAXIMUM 1400W PER 120 VOLT CIRCUIT. WHERE NECESSARY, DUE TO LIMITATIONS IN THE EXISTING CIRCUITRY, THIS CONTRACTOR SHALL FURNISH AND INSTALL 20A-1 POLE CIRCUIT BREAKERS AS REQUIRED IN EXISTING SPACE OF EXISTING PANEL AND EXTEND 2 #12 AND 1 #12 GRD IN 3/4" CONDUIT, COMPLETE AS REQUIRED. VERIFY CONDITIONS AND REQUIREMENTS IN FIELD.
- ELECTRICAL CONTRACTOR TO PROVIDE EXTENSION COVERS/RINGS AS NECESSARY.
- ELECTRICAL CONTRACTOR SHALL ADJUST THE BOX AND COVER FOR ELECTRICAL DEVICE TO AS THIN A PROFILE AS NECESSARY TO ACCOMMODATE THE REMOVE OF CASEWORK.
- EXTEND EXISTING CLOCK WIRING CIRCUITRY TO NEW CLOCK LOCATIONS AND CONNECT, COMPLETE AS REQUIRED.

GENERAL NOTES

- TYPE 'XA' FIXTURES SHALL BE LITHONIA * LGC-W-I-G-ELN OR APPROVED EQUAL.
- TYPE 'EA' FIXTURES SHALL BE LED TRAPEZOIDAL WALL PACK WITH COLD TEMPERATURE BATTERY BACKUP. MODEL NUMBER SHALL BE LITHONIA *JST LED2-12A100/40K-083-11VOLT-ELCW-XX WITH FINISH TO BE SELECTED BY ARCHITECT. FIXTURE TO BE PROVIDED WITH CONSTANT HOT UNSWITCHED SENSING FEED FROM CIRCUIT FEEDING EXTERIOR LIGHTING CIRCUIT TO ALLOW FIXTURE TO BE SWITCHED ON AND OFF ALONG WITH OTHER BUILDING LIGHTING, YET TURN ON IMMEDIATELY UPON LOSS OF POWER.
- TYPE 'FA' FIXTURES SHALL BE 4" SURFACE MOUNT LENSED FLUORESCENT LITHONIA *LB-232-11VOLT-GEENOPS WITH 71 BF PROGRAM START BALLAST OR APPROVED EQUAL BY METALUX OR COLUMBIA LIGHTING.
- TYPE 'FB' FIXTURE SHALL BE 4" FROSTED LENS LED STRIP FIXTURE LITHONIA *ZLN-148-3000LM-11VOLT-35K-FST-XX-XX OR APPROVED EQUAL. PROVIDE ADDITIONAL ELECTRICAL AND MOUNTING ACCESSORIES AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.

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DUNELAND SCHOOL CORPORATION

2015

JACKSON ELEMENTARY SCHOOL RENOVATIONS

811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER:	E-008	REVISION:	
PROJECT MANAGER:	SJS		
DRAWN BY:			
ISSUED FOR BIDDING:	04/01/2015		

ELECTRICAL NEW WORK PLAN

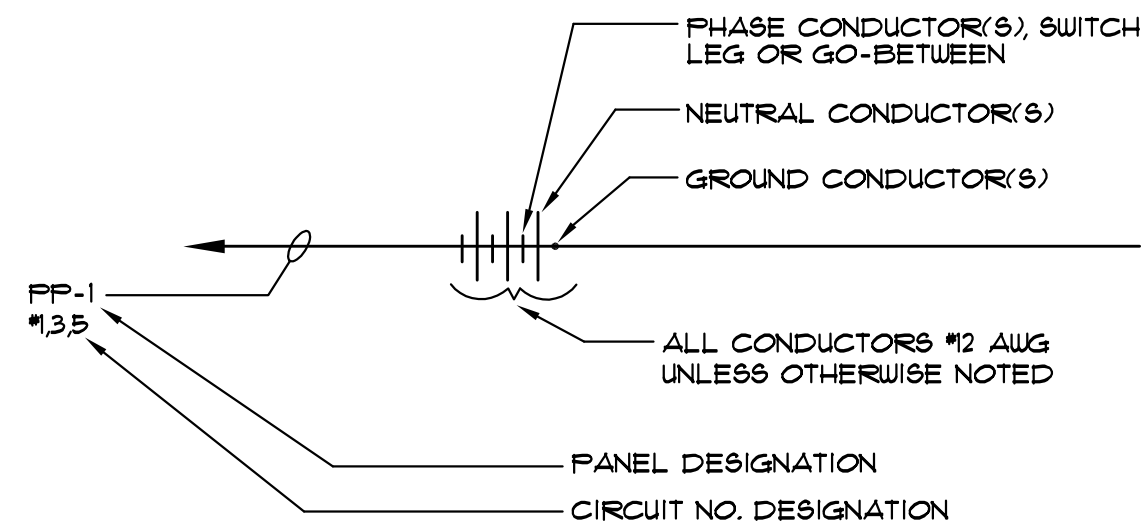
E201

ELECTRICAL ABBREVIATIONS

NOTE:
ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI SECTION Ø142Ø FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS
AC	AIR CONDITIONING
AF	ABOVE FINISH FLOOR
AFS	ABOVE FINISH GRADE
BRKR	BREAKER
C	CONDUIT
CH	CABINET HEATER
CKT	CIRCUIT
DISTR	DISTRIBUTION
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ER	EXISTING DEVICE TO BE REMOVED
EX	EXISTING DEVICE TO REMAIN
F	FUSE
FS	FUSIBLE SWITCH
G	GROUND
GF	GROUND FAULT INTERRUPTING PROTECTION
GRG	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATTS
MECH	MECHANICAL
MTD	MOUNTED
NE	NEW LOCATION OF EXISTING RELOCATED DEVICE
NC	NOT IN CONTRACT
NIGHT	NIGHTLIGHT
NTS	NOT TO SCALE
O/C	ON CENTER
P	POLE
PNL	PANEL
PH	PHASE
RR	REMOVE AND RELOCATED EXISTING DEVICE
SW	SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VIF	VERIFY IN FIELD
W	WATTS
WP	WEATHERPROOF TYPE DEVICE
WG	WIRE GUARD
FI	FURNISH AND INSTALL

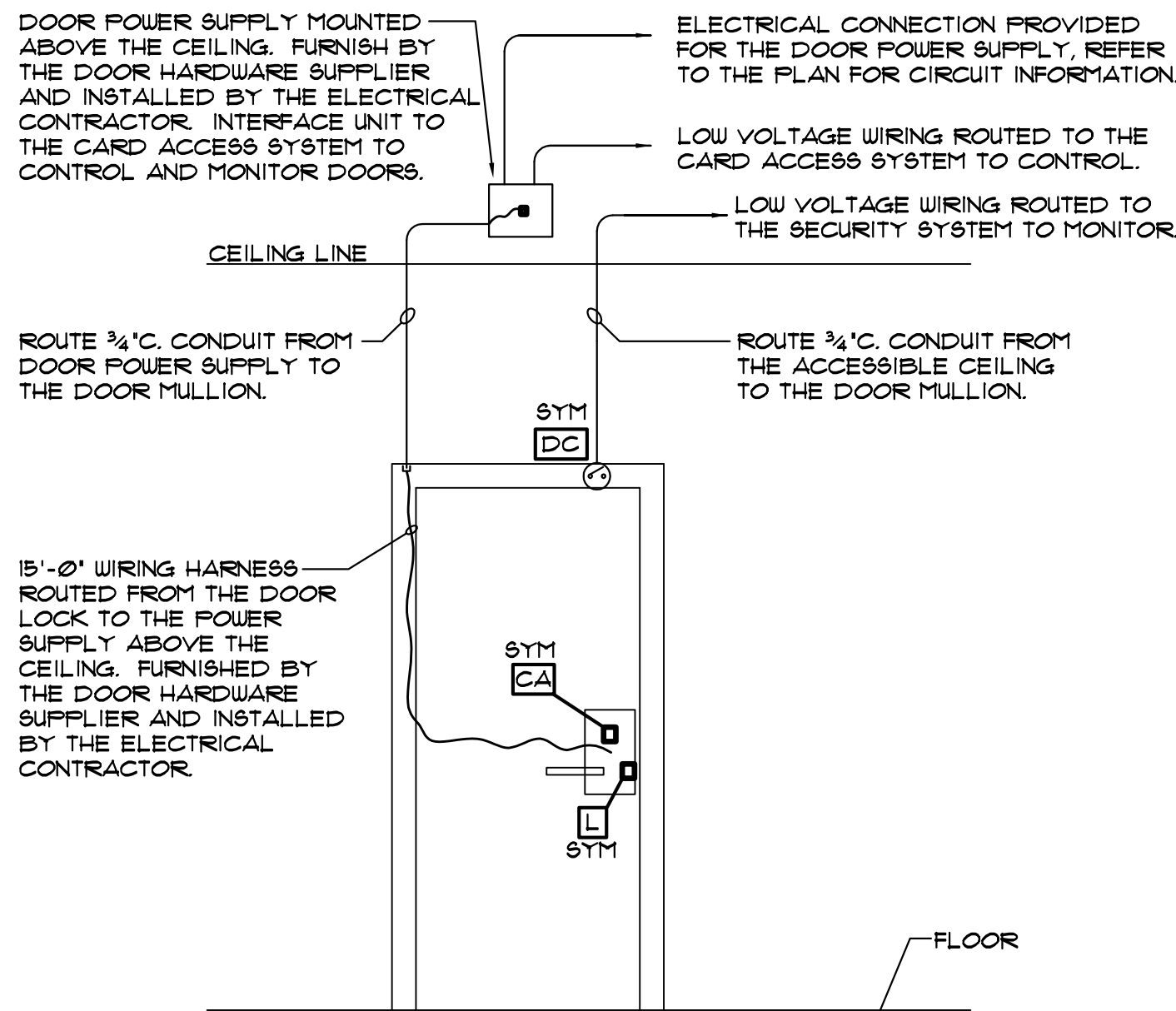
KEY TO ELECTRICAL CIRCUIT WIRING



NOTES

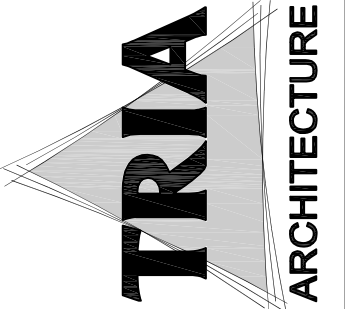
1. ALL WIRING SHALL BE #2 AWG, UNLESS OTHERWISE NOTED.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4" EXCEPT FOR THREE (3) WIRES OR LESS, OR CONTROL WIRING WITHIN BUILDINGS, WHICH MAY BE 1/2" CONDUIT.
3. 1/2" FLEXSTEEL, GREENFIELD OR SEALITE SHALL BE THE MINIMUM SIZE INSTALLED.

ACCESS CONTROL WIRING DIAGRAM



GENERAL NOTES

- | | | |
|---|---|---|
| <p>A. WORK SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRIC CODES, AMERICANS WITH DISABILITIES ACT.</p> | <p>M. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. RELOCATE EXISTING LIGHTING, CONDUIT, EQUIPMENT, ETC., AS NECESSARY FOR NEW INSTALLATIONS.</p> | <p>DD. WIRE COLOR CODING SHALL BE COORDINATED THROUGHOUT THE ENTIRE PROJECT/BUILDING FOR NEW AND EXISTING SYSTEMS.</p> |
| <p>B. THE PANEL SCHEDULES ARE PROVIDED FOR ASSISTANCE ONLY IN UNDERSTANDING THE LOADING ON THE VARIOUS CIRCUITS AND THE CIRCUIT DESIGNATIONS DESIRED FOR THE PANEL DIRECTORIES. THE PANEL SCHEDULES MUST BE BALANCED UPON COMPLETION OF THE PROJECT TO COMPLY WITH CODE. IN ADDITION, THE PANEL SCHEDULES DO NOT IDENTIFY THE TYPES OF CIRCUIT BREAKERS TO BE USED (SUCH AS GFCI, HACR, SHUNT TRIP UNITS, ETC.) NOR SCHEDULES IDENTIFY CIRCUIT BREAKERS REQUIRED (SUCH AS C/B'S FEEDING SURGE PROTECTION UNITS). REFER TO THE REST OF THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILED INFORMATION.</p> | <p>N. PROVIDE NEW PANEL DIRECTORIES IN EXISTING MODIFIED PANELBOARDS AND NEW PANELBOARDS TO CORRECTLY IDENTIFY EXISTING AND NEW LOADS. FINAL DIRECTORIES SHALL BE TYPE WRITTEN.</p> <p>O. EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES, CONDUIT, ETC., SHALL BE REMOVED AND REPLACED OR REWIRING OR REPAIRS REQUIRED TO MEET NEW SCOPE OF WORK. EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND SHALL BE PROPERLY STORED ON SITE, OR DESIGNATED TO BE ABANDONED AND REMOVED FROM SITE AS DIRECTED BY OWNER.</p> | <p>EE. IF MORE THAN THREE (3) PHASE (UNGROUND) CONDUCTORS ARE RUN IN THE SAME RACEWAY, CONDUCTOR AMPACITY SHALL BE DERATED IN ACCORDANCE WITH NEC ARTICLE 310.</p> <p>FF. CONDUIT, LIGHTING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. CONDUITS ROUTED THROUGH AREAS WITH CEILING, SHALL BE ROUTED WITHIN THE WEBBING OF THE JOISTS AND SHALL NOT BE ROUTED BELOW THE BOTTOM CHORD OF THE JOIST.</p> |
| <p>C. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) TO AVOID CONFLICTS.</p> | <p>P. PERFORM CUTTING AND PATCHING OF EXISTING FLOOR SLABS AND WALLS AS REQUIRED FOR THE INSTALLATION OF ELECTRICAL SYSTEMS.</p> | <p>GG. SMOKE OR HEAT DETECTORS SHALL BE SURFACE MOUNTED TO CEILING, ROOF DECK MATERIALS, ETC. IN LIEU OF MOUNTING TO BOTTOM CHORD OF ENGINEERED JOIST OR ANY OTHER COMPONENTS NOT AN INTEGRAL PART OF THE HORIZONTAL CEILING.</p> |
| <p>D. EXCAVATION NECESSARY FOR COMPLETION OF WORK SHALL BE PROVIDED. COORDINATE WITH ONE ANOTHER TO SHARE TRENCHES WHEREVER POSSIBLE.</p> | <p>Q. EXISTING ELECTRICAL DEVICES (RECEPTACLES, SWITCHES, OUTLET BOXES, CONDUIT, ETC.) WITHIN WALLS TO BE REMOVED SHALL BE DISCONNECTED COMPLETELY. REROUTE CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY FOR ALL REMAINING DEVICES/EQUIPMENT. VERIFY EXACT CONDITIONS AND REQUIREMENTS IN FIELD.</p> | <p>HH. VERIFY EXISTING AND NEW MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO START OF NEW CONSTRUCTION. COORDINATE AND ADJUST NEW WORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING SERVICES AND NEW SERVICES PROVIDED.</p> |
| <p>E. REFER TO THE PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS. FURNISH, INSTALL AND LOCATE DISCONNECT SWITCHES AT EQUIPMENT/MOTOR LOCATION, AS REQUIRED, AND IN ACCORDANCE WITH CODE.</p> | <p>R. WHERE NEW CIRCUIT BREAKERS, FUSES AND SWITCHES ARE TO BE ADDED TO EXISTING PANELBOARDS, SWITCHBOARDS, ETC., THEY SHALL BE OF THE SAME MANUFACTURER AND DESIGN AS THE EXISTING BREAKERS OR SWITCHES IF NOT OBSOLETE AND SHALL BE OF THE SIZES AS INDICATED. REARRANGE CIRCUIT BREAKERS WITHIN THE EXISTING EQUIPMENT TO ACCOMMODATE THE NEW CIRCUIT BREAKERS OR SWITCHES. BRANCH CIRCUIT NUMBERS ASSIGNED TO EXISTING PANELBOARDS ARE ARBITRARY AND ARE INTENDED TO INDICATE BRANCH CIRCUIT REQUIREMENTS ONLY. ACTUAL PANEL NUMBER ASSIGNMENTS FOR DESIGNATED BRANCH CIRCUITS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. PROVIDE ADDITIONAL BUS, BUS EXTENSION, BOLTS AND HARDWARE, ENCLOSURE MODIFICATIONS, DIRECTORY MODIFICATIONS, ETC., AS REQUIRED TO ACCOMPLISH THE WORK.</p> | <p>II. WIRING DEVICES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.</p> |
| <p>F. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY POWER AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.</p> | <p>S. PROVIDE BALLASTS OR WIRE FIXTURES IN TANDEM AS REQUIRED TO ACCOMPLISH THE SWITCHING ARRANGEMENT AS INDICATED ON DRAWINGS. PROVIDE MULTIPLE BALLASTS PER FIXTURE WHERE INDICATED BY MULTIPLE SWITCHES PER FIXTURE ON PLANS. GENERALLY, WHERE MULTIPLE BALLASTS ARE SPECIFIED, PROVIDE MULTIPLE SWITCHES AS REQUIRED TO CONTROL EACH BALLAST IN A FIXTURE SEPARATELY.</p> | <p>JJ. UNLESS OTHERWISE NOTED, DEVICE ELEVATIONS REFER TO CENTER LINE OF JUNCTION BOX. VERIFY JUNCTION BOX LOCATIONS WITH FINAL EQUIPMENT LAYOUT PRIOR TO ROUGHING IN SAME.</p> |
| <p>G. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES, INCLUDING F/A AND OTHER SPECIAL SYSTEMS, ELECTRICAL POWER DISTRIBUTION, ETC. REQUIRED SHUTDOWN OF EXISTING FACILITY UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL.</p> | <p>T. VERIFY CEILING STYLES/FRAMES AND TYPES BEFORE ORDERING FIXTURES AND CEILING MOUNTED DEVICES. PROVIDE APPROPRIATE STYLES/FRAMES AS REQUIRED TO MATCH CEILING STYLE AND TYPES.</p> | <p>KK. FURNISH AND INSTALL A GREEN GROUND WIRE IN POWER CONDUITS (NOT LIGHTING). ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, MUST BE GROUNDED. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED.</p> |
| <p>H. LAYOUT IS DIAGRAMMATIC AND INSTALL DEVICES, CONDUIT AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING WORK AND SUBMIT COMPLETE SHOP DRAWINGS AS PER SPECIFICATIONS.</p> | <p>U. COORDINATE LIGHTING LAYOUTS WITH CEILING REGISTERS, GRILLES, DIFFUSERS, SPRINKLER HEADS AND CEILING GRID (SEE ARCHITECTURAL REFLECTED CEILING PLAN). VERIFY LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD PRIOR TO INSTALLATION.</p> | <p>LL. PROVIDE CONDUIT AND WIRE AND MAKE FINAL POWER CONNECTIONS AS REQUIRED TO EXHAUST FANS AND MISCELLANEOUS EQUIPMENT FURNISHED WITH MOTORIZED BACKDRAFT DAMPERS. DAMPERS SHALL BE CONNECTED TO EQUIPMENT 120 VOLT POWER CIRCUIT SO AS TO INTERLOCK THE MOTORIZED DAMPER WITH THE EXHAUST FAN. FOR THREE PHASE MOTORS, PROVIDE AN ADDITIONAL 120 VOLT CIRCUIT ROUTED THROUGH AN AUXILIARY CONTACT IN THE MOTOR STARTER.</p> |
| <p>I. VISIT SITE PRIOR TO BID TO DETERMINE AND VERIFY EXISTING INTERIOR AND EXTERIOR ELECTRICAL SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE FULL EXTENT OF WORK. INCLUDE THE NECESSARY MODIFICATIONS TO THE EXISTING CONDITIONS (INCLUDING CEILINGS, WALLS, FLOORS, PIPES, CONDUIT, ROOF WORK, ETC.) AS REQUIRED TO ALLOW PROPER INSTALLATION OF WORK. ADJUST THE NUMBER OF INSTALLATIONS TO MEET FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, CONDUIT, PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.</p> | <p>V. PROVIDE PLENUM RATED LIGHT FIXTURES IN PLENUM CEILING AREAS WHERE REQUIRED BY LOCAL OR NATIONAL CODES.</p> <p>W. SOME CEILING SPACES ARE RETURN AIR PLENUMS. EXAMINE PLENUM BEFORE CEILING IS INSTALLED (OR REPLACED) AND SEAL ALL OPENINGS AROUND CONDUIT, CABLE, ETC. PROVIDE PLENUM RATED CABLE (UNLESS IN CONDUIT), DEVICES AND EQUIPMENT PER CODE.</p> | <p>MM. MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED ON DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE, CODE COMPLIANT INSTALLATION. FURNISH AND INSTALL INTERFACE WIRING INTEGRAL TO THE FIRE ALARM SYSTEM AS WELL AS INTERFACE TO NEW ELEVATOR CONTROL PANEL, BUILDING AUTOMATION SYSTEM, ETC. FOR COMPLETE AND OPERATING INSTALLATION. QUESTIONS REGARDING THE REQUIREMENTS OF THE FIRE ALARM SYSTEM OR THE INTENT OF THE CODE SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BID.</p> |
| <p>J. HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO ATTENTION IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL REQUIRE THE CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION TO BE COMPLETED AT NO COST. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE BROUGHT TO ATTENTION FOR WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.</p> | <p>X. AIM AND ADJUST FIXTURES WITH ADJUSTMENT CAPABILITIES (I.E. TRACK LIGHTING, HIGH BAY LIGHTING, EXTERIOR FIXTURES, ETC.) TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.</p> <p>Y. THE MINIMUM DISTANCE BETWEEN SMOKE OR HEAT DETECTORS AND CEILING MOUNTED DIFFUSERS SHALL BE A MINIMUM OF 4 FEET AND WALL MOUNTED DIFFUSERS SHALL BE 10 FEET.</p> | <p>NN. CONDUIT INSTALLED FOR LOW VOLTAGE SYSTEMS SHALL BE COORDINATED WITH THE LOW VOLTAGE INSTALLER IN FIELD PRIOR TO ROUGH-IN. SUCH CONDUIT SHALL BE ROUTED TO MINIMIZE CABLE LENGTH AND COMPLY WITH LOW VOLTAGE CABLING DISTANCE LIMITATIONS.</p> <p>OO. THE FLASH RATES FOR FIRE ALARM STROBES SHALL BE SYNCHRONIZED, COORDINATE ADDITIONAL REQUIREMENTS WITH NFPA 12.</p> |
| <p>K. REMOVE AND REINSTALL EXISTING CEILINGS NOT BEING REPLACED (INCLUDING LIGHTS, MOTION SENSORS, FIRE ALARM DEVICES AND ANY OTHER ELECTRICAL DEVICES AS REQUIRED WHERE NECESSARY TO REPAIR WORK. THIS ALSO INCLUDES EXISTING CEILINGS OF PLASTER, DRYWALL, ETC. COORDINATE WORK IN CEILING SPACE SO AS TO MINIMIZE THE AMOUNT OF CEILINGS WHICH MUST BE REMOVED AND REINSTALLED. REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS IN ORDER TO FULLY UNDERSTAND AND INCLUDE CEILING WORK NECESSARY FOR WORK ON THE PROJECT. WHEN THE WORK COMPLETES IN THE CEILING SPACE, REINSTALL EXISTING CEILINGS, REINSTALL DEVICES AND EQUIPMENT AND REPAIR DAMAGE AS REQUIRED TO COMPLETELY MATCH EXISTING CONDITIONS. REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CEILING AREAS.</p> | <p>Z. WHERE INDICATED ON THE DRAWINGS IN UNFINISHED SPACES, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.</p> <p>AA. NO RACEWAYS SHALL BE INSTALLED WITHIN 6' OF HOT WATER PIPES OR SIMILAR HEAT PRODUCING APPLIANCES.</p> <p>BB. PROVIDE FULL WIRE IN EACH RACEWAY IN WHICH WIRING IS NOT INSTALLED.</p> | <p>PP. REWORK EXISTING ELECTRICAL FEEDERS, CONDUIT AND LOW VOLTAGE WIRING AS REQUIRED FOR INSTALLATION OF NEW STRUCTURAL COMPONENTS REQUIRED TO SUPPORT NEW ROOF MOUNTED EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT, WIRING AND SPLICE BOXES TO MAINTAIN CONTINUITY.</p> |
| <p>L. REMOVE EXISTING CONSTRUCTION AS REQUIRED AT EXISTING WALLS, FLOORS, PIPE CHASES, SURFACE FINISHES, ETC. WHICH ARE AFFECTED. REPAIR EXISTING SURFACES AFFECTED TO MATCH EXISTING SURFACE OF EQUAL OR BETTER QUALITY TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.</p> | <p>CC. COVERS OF JUNCTION OR PULL BOXES SHALL BE ACCESSIBLE AND IDENTICAL TO THE FIRE ALARM RECEPTION JUNCTION BOXES SHALL BE PAINTED RED. JUNCTION OR PULL BOXES AND THE LIKE SHALL</p> | |



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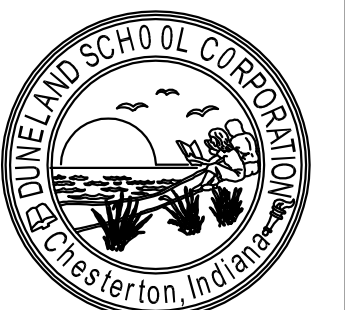
DUNELAND SCHOOL CORPORATION

2015

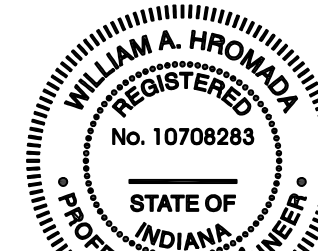
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PROJECT NUMBER: 5-008	REVISIONS:
PROJECT MANAGER: SKR	1/
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ISSUED FOR BIDDING: 04/10/2015	5/

SCHEDULES, DETAILS AND DIAGRAMS



E301



Will C. Chung

* NOTE:
FIRE ALARM DEVICES, MOUNTING HEIGHT, ETC. SHALL COMPLY WITH 'ADA' STANDARDS.

- FACP** FIRE ALARM CONTROL PANEL
- HA** FIRE ALARM ANNUNCIATOR PANEL
- Ⓢ** FIRE ALARM SYSTEM HEAT DETECTOR - COMBINATION TYPE (R/R - FIXED TEMP.) IN BOILER ROOM
- Ⓢ** FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - ABOVE FACP
- ◆** ELECTROMAGNETIC WALL MOUNTED DOOR HOLDER OR WIRE HARDWARE INSTALLED DOOR CLOSER COMPLETE AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING STYLE WITH DOOR SCHEDULE PRIOR TO ROUGHING IN FOR SAME.
- ⌈** FIRE ALARM PULL STATION MTD 42" AFF.
- ⌈K** FIRE ALARM AUDIO/VISUAL DEVICE MTD. 80' AF. OF 6' BELOW FINISHED CEILING WHICHEVER IS LOWER
- ⌈K** FIRE ALARM STROBE ONLY MTD 80' AFF. - 15 CANDELA
- ⌈K** FIRE ALARM STROBE ONLY MTD 80' AFF. - 15 CANDELA
- ⌈K** KNOX BOX - PER THE LOCAL FIRE DISTRICT STANDARDS, AT THE LOCATION INDICATED. PROVIDE BOTH POWER AND SMOKE EVACUATION KEY CONTROLS. VERIFY ELEVATION OF DEVICE WITH THE LOCAL FIRE DISTRICT PRIOR TO INSTALLING SAME. WHERE REQUIRED, FURNISH AND INSTALL A FLASHING ANNUNCIATOR, TIED TO THE FIRE ALARM SYSTEM, TO IDENTIFY LOCATION OF THE KNOX BOX.
- ⌈CA** CARD ACCESS CONTROLLER - PROVIDE BACK BOX MOUNTED 42" AFF. WITH ¾" C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ⌈L** ELECTRIC DOOR STRIKE - STUB ¾" CONDUIT FROM THE ACCESSIBLE CEILING SPACE TO THE DOOR MULLION OR WIRING. INTERFACE WIRING FROM THE DOOR STRIKE TO THE DOOR ACCESS SYSTEM FOR A COMPLETE AND PROPERLY OPERATING SYSTEM.
- ⌈K** SURVEILLANCE CAMERA - (ACTI #668) INTERIOR CEILING MOUNTED DOME CAMERA - PROVIDE 2-GANG BACK BOX WITH SINGLE GANG MUD RING WITH ¾" C. ROUTED TO THE ACCESSIBLE CEILING SPACE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ⌈DC** SECURITY SYSTEM DOOR CONTACT - ROUGH-IN ONLY - ROUTE ¾" C FROM THE ACCESSIBLE CEILING SPACE AND STUB INTO THE DOOR MULLION.
- ⌈E** AIPHONE EXTERIOR DOOR INTERCOM SYSTEM, MOUNTED 48" AFF. PROVIDE BACK BOX WITH ¾" CONDUIT ROUTED TO THE ACCESSIBLE CEILING SPACE.
- ⌈I** AIPHONE INTERIOR DOOR INTERCOM SYSTEM, MOUNTED ON OWNER'S DESK. PROVIDE BACK BOX AT 42" AFF. WITH ¾" CONDUIT ROUTED TO THE ACCESSIBLE CEILING SPACE.
- ▽** EXISTING COAXIAL ORIGATION JACK
- ▼** TELEPHONE OUTLET - WITH ¾" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" AFF. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.
- ▽** DUFLEX DATA OUTLET - WITH ¾" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING - MOUNTED 18" AFF. WHEN MOUNTED ADJACENT TO AN ELECTRICAL RECEPTACLE OR AS NOTED. PROVIDE CAT-6 PLENUM CABLE FROM EACH JACK, TO NEAREST IDF OR MDF LOCATION INDICATED ON PLANS. TERMINATE WITH RJ-45 JACK. TEST AND LEAVE 10' SLACK LENGTH.
- ⌈D** DOOR OPERATOR PUSH BUTTON FURNISHED BY OTHERS, WIRED AND INSTALLED BY CONTRACTOR. PROVIDE TWO (2) GANG BACK-BOX MOUNTED AT 42" AFF. WITH ¾" C. ROUTED DOOR OPERATOR.
- ⌈D** SWING DOOR OPERATOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY CONTRACTOR. COORDINATE ELECTRICAL LOCATION WITH DOOR HARDWARE SUPPLIER.

SYMBOL LIST

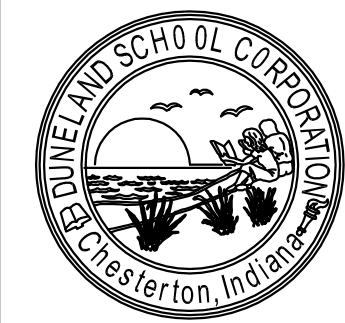
- Ⓢ** JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- FLEX CONDUIT CONNECTION
- Ⓢ** JUNCTION BOX W/ FLEX CONDUIT CONNECTION.
- Ⓢ** ELECTRIC MOTOR CONNECTION - PROVIDE LOCAL DISCONNECT SWITCH PER NATIONAL ELECTRIC CODE - CONNECT MISCELLANEOUS ACCESSORIES SUCH AS BACK DRAFT DAMPERS, ETC. COMPLETE AS REQUIRED.
- ⌈FB** FULL BOX, VERIFY EXACT SIZE IN FIELD.
- ⌈SB** SPLICE BOX, VERIFY EXACT SIZE IN FIELD.
- CONDUIT STUB INTO ACCESSIBLE CEILING SPACE TERMINATE W/ INSULATING BUSHING
- CONDUIT CONCEALED ABOVE CEILING OR IN WALL
- CONDUIT CONCEALED IN OR BELOW FINISHED FLOOR
- CONDUIT EXPOSED ON CEILING, WALL OR BAR JOIST - ROUTED IN NEAT MANNER
- LP-AI** HOMERUN TO PANEL INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL.
- INDICATES NUMBER OF CONDUCTORS IN CONDUIT (CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL WHERE REQUIRED) CROSS HATCHED INDICATES NUMBER OF CONDUCTORS (HOT OR SWITCHED LEG, NEUTRAL, GROUND)
- WM** WIRE MOLD SURFACE RACEWAY COMPLETE WITH ALL ACCESSORIES
- ⌈X** HEXAGON TAG REFERENCE TO EQUIPMENT CONNECTION SCHEDULE
- ⌈1** ELLIPSE TAG REFERENCE TO SHEET NOTES
- ⌈\$** TWO DEVICE MOUNTED UNDER COMMON COVER. WHERE LOW VOLTAGE DEVICES ARE MOUNTED UNDER COMMON COVER, COMBINE CONDUIT STUBS MAINTAINING THE EQUIVALENT FREE AREA FOR THE LOW VOLTAGE CABLING.
- ELECTRIC PANELBOARDS.
- ⌈** DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER
- ⌈T.T.B.** TELEPHONE TERMINAL BOARD
- ⌈T.T.C.** TELEPHONE TERMINAL CABINET
- ⌈** FURNISH AND INSTALL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER PACK. MANUFACTURERS: SENSORSWITCH #CM-FDT-10-MF-20 (WITH MICROPHONICS) OR APPROVED EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS.
- \$** GENERAL PURPOSE 1-POLE LOW VOLTAGE SWITCH - (TYPICAL - MOUNTED 42" AFF.) (SENSORSWITCH S-POD M SERIES OR EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS)
- \$** NETWORKED 1-POLE LOW VOLTAGE SWITCH - (TYPICAL - MOUNTED 42" AFF.) (SENSORSWITCH N-POD M SERIES OR EQUAL BY GREENGATE, LEVITON OR CRISTAL CONTROLS)
- INTERCOM PRIVACY CALL-IN SWITCH - SEE SPECS FOR ADDITIONAL INFORMATION.
- \$** GENERAL PURPOSE 1-POLE SWITCH - (TYPICAL - MOUNTED 42" AFF.) (HUBBELL #221 OR EQUAL)

- ⌈RN** REMOVE EXISTING DEVICE AND PROVIDE NEW AS INDICATED IN EXISTING BACK BOX, JUNCTION BOX, ETC. VERIFY EXACT LOCATION AND CONDITIONS IN FIELD. MODIFY EXISTING BACK BOX, JUNCTION BOX, ETC. PROVIDE TRIM PLATES, EXTENSION RINGS, ETC. AS REQUIRED TO MOUNT NEW DEVICE AS INDICATED.
- ⌈NI**
- ⌈EX** F#1 NEW DEVICE AS INDICATED.
- ⌈EX** EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO REMAIN.
- ⌈ER** EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO BE REMOVED COMPLETE IN ITS ENTIRETY. REMOVE ALL ASSOCIATED SURFACE MOUNTED CONDUIT, OUTLETS, ETC. AND BLANK-OFF FLUSH WITH NEW OR EXISTING CONSTRUCTION. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ⌈RR** REMOVE EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICES, ETC. AND RELOCATE TO NEW LOCATION COMPLETE AS REQUIRED.
- ⌈NE** NEW LOCATION OF EXISTING RELOCATED LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. EXTEND CONDUIT, WIRE, CABLE, ETC. COMPLETE AS REQUIRED TO NEW LOCATION FOR A COMPLETE AND PROPER INSTALLATION.
- ⌈** EMERGENCY BATTERY LIGHT MOUNTED 1'-6" AF (OR AS NOTED)
- ⌈** REMOTE EMERGENCY BATTERY LIGHT MOUNTED 1'-6" AF (OR AS NOTED)
- ⌈** FIXTURE ON EMERGENCY CIRCUIT (EMAL) WITH 90 MINUTE FULL LUMEN OUTPUT BATTERY UNIT SEE SPECS. FOR MORE INFORMATION, BODINE #B30 OR APPROVED EQUAL. REMOTE MOUNT IN ACCESSIBLE CEILING WHERE INTERNAL INSTALLATION IS NOT POSSIBLE (PROVIDE TEST SWITCH & ALL NECESSARY APPURTENANCES).
- ⌈** EXISTING CEILING FANS TO BE REMOVED AND RELOCATED
- ⌈** CEILING SPEAKERS - WITH AIR PLENUM BACK BOX AND ¾" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. MOUNT IN SURFACE BOX WHERE NO CEILING\$ EXIST. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ⌈** WALL MOUNTED DIGITAL CLOCK UNIT MOUNTED 1'-0" AFF. (OR AS OTHERWISE NOTED). PROVIDE 4" CLOCK WHERE INDICATED WITH A 4" IS ADJACENT TO THE DEVICE. PROVIDE BACK BOX WITH ¾" CONDUIT TO ACCESSIBLE CEILING SPACE WITH INSULATED BUSHING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ⌈** 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #5362 OR EQUAL)
- ⌈** 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 42" AFF. OR 2' ABOVE BACK\$PLASH IF LOCATED ABOVE COUNTER) (HUBBELL #5362 OR EQUAL)
- ⌈** 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION - (MOUNTED 18" AFF. OR AS NOTED) (HUBBELL #GF20 OR EQUAL)
- ⌈** 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION (MOUNTED 42" AFF. OR 2' ABOVE BACK\$PLASH IF LOCATED ABOVE COUNTER) (HUBBELL #GF20 OR EQUAL)
- ⌈** SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS).
- ⌈** ALL DEVICES INDICATED WITH SHADED BOX BASE TO BE SURFACE MOUNTED TO THE EXISTING WALL ON WIREMOLD #V2000 OR EQUAL IF SINGLE SERVICE, OR WIREMOLD #4000 IF DUAL SERVICES
- ⌈** WIREMOLD #V4000 RACEWAY VERTICAL RISER. SEE DETAIL
- ⌈1** LOCAL INTERCOM SYSTEM CALL STATION - PHILIPS 6-16 SYSTEM OR EQUAL BY AIPHONE OR TELEX. OR EQUAL. MOUNTED 42" AFF. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION. VERIFY LOCATION IN FIELD PRIOR TO ROUGH-IN.
- ⌈1** LOCAL INTERCOM SYSTEM FLUSH MOUNTED FULL DUPLEX SPEAKER - MOUNTED 1'-6" AFF. VERIFY LOCATION IN FIELD PRIOR TO ROUGH IN.

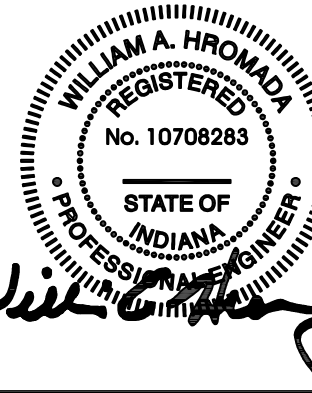
DUNELAND SCHOOL CORPORATION

2015
JACKSON ELEMENTARY SCHOOL RENOVATIONS
811 N. 400 E., VALPARAISO, IN 46383

PROJECT NUMBER: E-008
PROJECT MANAGER: SCS
DESIGN BY: SCS
USED FOR BIDDING: 04/02/2015
SYMBOL LIST



E401



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