GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

Design-Build Services
Bruce-Monroe Elementary School at Park View

Solicitation No: DCAM-17-CS-0023

Amendment No. 3
Issued: December 28, 2016

This Amendment No. 3 is issued on December 28, 2016. Except as modified hereby, the Request for Proposal ("RFP") remains unmodified.

Item # 1 – Section B.2.2.1 Services

Delete:

e. Perform a Phase 1 Archeological Survey.

Replace:

e. Perform a Phase 1 Archeological Survey. The Department will work with the Design-Builder and DCPS to determine a suitable deliverable schedule for the archaeological study, as applicable.

Add:

j. Create a swing space in the gym space in the north wing that duplicates what exists in the current cafeteria space.
k. Design and install a new fire sprinkler system throughout the entire building. A new 6 inch dedicated fire service line will be required. Provisions have been made in the existing switchgear for a future fire pump
l. Determine if the existing electrical service is adequate to power the proposed Scope of Work. The incoming electrical service is anchored by a 3000A, 208Y/120V, 3-phase, 4-wire switchboard. Refer to 2012 Phase 1 Modernization design drawings (**Attachment A**).

Item # 2 – 2014_10_08 Park View ES Cafeteria Elevator Permit Set (Exhibit 1)

Item # 3 – Responses to Questions (Exhibit 2)

Elouise Fripp
Lead Contract Specialist

12/28/16
Date

- End of Amendment No. 003 -

Exhibit 1

BRUCE-MONROE ELEMENTARY SCHOOL AT PARK VIEW

WASHINGTON, D.C.

3560 WARDER ST. NW
WASHINGTON, DC 20010

PREPARED FOR

DISTRICT OF COLUMBIA PUBLIC SCHOOLS

PERMIT SUBMISSION
SEPTEMBER 29, 2014

ARCHITECT
SORG ARCHITECTS
918 U STREET, NW
WASHINGTON, DC 20001

MEP ENGINEER
ALLEN & SHARIFF ENGINEERING LLC
7061 DEEPAGE DRIVE
COLUMBIA, MD 21045

STRUCTURAL ENGINEER
SK&A STRUCTURAL ENGINEERS, PLLC
1155 CONNECTICUT AVE, NW, SUITE 800
WASHINGTON, DC 20036

INDEX OF DRAWINGS

INDEX OF DRAWINGS (CONT.)

SYMBOLS

- MASONRY
- CONCRETE MASONRY UNIT
- STEEL
- BATT INSULATION
- CONCRETE
- NON-CONTINUOUS WOOD BLOCKING
- CONTINUOUS WOOD FRAMING
- FINISHED WOOD
- PLYWOOD
- GYPSUM BOARD
- DETAIL INDICATOR (3 / A5.01 — DETAIL NUMBER / PAGE WHERE DRAWN)
- SECTION INDICATOR (2 / A3.01 — DETAIL NUMBER / PAGE WHERE DRAWN)
- DETAIL & ELEVATION TITLE (1 / A5.03 — DETAIL NUMBER / PAGE WHERE DRAWN)
- KEYNOTE
- ELEVATION POINT
- PARTITION TYPE
- DOOR INDEX
- AREA IDENTIFICATION
- REVISION INDEX

LOCATION MAP

ABBREVIATIONS

AC	ACOUSTIC	INSUL	INSULATION
A/C	AIR CONDITIONING	INT	INTERIOR
ALUM	ALUMINUM		
AFF	ABOVE FINISHED FLOOR	JAN	JANITOR
ARCH	ARCHITECTURAL	JT	JOINT
&	AND		
@	AT	KD	KNOCKDOWN
BD	BOARD	LAV	LAVATORY
BLKG	BLOCKING		
CAB	CABINET	MAX	MAXIMUM
CER	CERAMIC	MECH	MECHANICAL
CH	CABINET HEATER	MEP	MECHANICAL ELECTRICAL & PLUMBING
C	CENTER LINE		
CLG	CEILING	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
COL	COLUMN	MISC	MISCELLANEOUS
CONC	CONCRETE	MM	MILLIMETER
CONT	CONTINUOUS	M	METER
C.O.T.R.	CONTRACTING OFFICER TECHNICAL REPRESENTATIVE	MTL	METAL
		MO	MASONRY OPENING
CT	CERAMIC TILE		
		NIC	NOT IN CONTRACT
DET	DETAIL	NAT	NATURAL
DF	DRINKING FOUNTAIN	NTS	NOT TO SCALE
ø	DIAMETER		
DN	DOWN	OC	ON CENTER
DWG	DRAWING	OD	OUTSIDE DIAMETER
		OH	OVERHEAD
EA	EACH	OPP	OPPOSITE
EL	ELEVATION		
ELEC	ELECTRIC(AL)	PLAM	PLASTIC LAMINATE
EQ	EQUAL	PVC	POLYVINYL CHLORIDE
ETR	EXISTING TO REMAIN	PLY	PLYWOOD
EWC	ELECTRIC WATER COOLER	PT	PRESSURE TREATED
EXIST	EXISTING		
EXPS	EXPOSED STRUCTURE	QT	QUARRY TILE
FD	FLOOR DRAIN	R	RISER/RADIUS
FE	FIRE EXTINGUISHER	REINF	REINFORCED/REINFORCING
FIN FL	FINISH(ED) FLOOR(ING)	REQD	REQUIRED
FLUOR	FLUORESCENT	RO	ROUGH OPENING
GA	GAUGE	SEC	SECTION
GALV	GALVANIZED	SIM	SIMILAR
GL	GLASS/GLAZING	SQ	SQUARE
GYP	GYPSUM	STOR	STORAGE
		SUSP	SUSPENDED
HDWR	HARDWARE		
HM	HOLLOW METAL	T	TREAD
HORZ	HORIZONTAL	TEMP	TEMPERED
HR	HOUR	TPD	TOILET PAPER DISPENSER
HT	HEIGHT	TYP	TYPICAL
		VERT	VERTICAL
		VB	VINYL BASE
		W	WIDE / WIDTH
		WD	WOOD
		W/	WITH

GENERAL NOTES

1. DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE FINISH TO FINISH.
2. GENERAL CONTRACTOR TO VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DEMOLITION, CONSTRUCTION, FABRICATION OF ANY ITEM. ANY DISCREPANCY FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. THE GENERAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES, INCLUDING EXISTING WATER, SEWER AND STORM MAINS PRIOR TO BEGINNING HIS WORK AND SHALL MAKE CERTAIN THAT ALL CONNECTIONS CAN BE MADE. NOTIFY THE ARCHITECT OF ANY PROBLEMS. CONTACT "MISS UTILITY" TO CONFIRM UNDERGROUND LINES BEFORE PROCEEDING WITH ANY EXCAVATION AT THE PROJECT SITE.
4. THE CONTRACTOR SHALL PRESERVE, TAKE CARE OF AND COORDINATE ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION. THIS WORK TO BE COORDINATED WITH THE OWNER. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY INTERRUPTION TO THE BUILDING SERVICE AT LEAST 48 HOURS PRIOR TO THE BREAK IN SERVICE.
5. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TELECOMMUNICATIONS AND SECURITY TRADES.
6. THE FABRICATION AND/OR CONSTRUCTION OF ANY ITEM WITHOUT THE APPROPRIATE APPROVED SHOP DRAWING(S) AS CALLED FOR IN THE SPECIFICATIONS IS AT THE GENERAL CONTRACTOR'S RISK.
7. THE CONTRACT DOCUMENTS INCLUDE THESE DRAWINGS AND SPECIFICATIONS. DO NOT PROCEED WITH ANY WORK WITHOUT REFERRING TO ALL DOCUMENTS AFFECTING THAT WORK IN ALL DISCIPLINES.
8. THE GENERAL CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL DUCTS, VENTS, OUTLETS, HOSE BIBS, ACCESS DOORS AND OTHER ITEMS TO BE PLACED IN THE PROJECT. REFER TO ALL DISCIPLINES SHEETS FOR WORK IN ANY AREA BEFORE PROCEEDING WITH THE WORK. CONFLICTS BETWEEN WORK IN ANY AREA SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
9. SECTIONS AND DETAILS ARE DRAWN TO SHOW TYPICAL CONDITIONS; SEE THE PLANS AND THE ELEVATIONS FOR THE EXTENT OF THE WORK. THE SECTION OR DETAIL REFERENCES SHOWN ON THE DRAWINGS IS ONLY WHERE THE SECTION OR DETAIL WAS TAKEN AND DOES NOT INDICATE THE EXTENT OF THE WORK.
10. FOR NOTES WHERE INFORMATION IS NOT SPECIFICALLY CALLED OUT IN DETAIL OR SECTION, REFER TO SIMILIAR SECTIONS AND DETAILS FOR APPROPRIATE NOTES.
11. THE OWNER AND THE ARCHITECT ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF THE EXISTING CONDITIONS AS SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
12. EXISTING INFORMATION IS PARTLY BASED ON ORIGINAL DRAWINGS PROVIDED BY OWNER.
13. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT BUILDING USERS/OCCUPANTS FROM INJURY. THESE PROTECTIONS WILL BE REMOVED AT THE COMPLETION OF WORK.
14. NO CORRIDOR, AISLE, DOOR OR EXIT SHALL BE OBSTRUCTED OR USED IN SUCH A MANNER AS TO ENCROACH UPON ROUTES OF INGRESS OR EGRESS UTILIZED BY THE PUBLIC OR BUILDING OCCUPANTS, OR TO PRESENT AN UNSECURED, UNSAFE, OR UNHEALTHY CONDITION TO THE PUBLIC OR BUILDING OCCUPANTS. EXISTING EXIT STAIRS SHALL BE MAINTAINED AS USABLE EXITS DURING THE DEMOLITION AND CONSTRUCTION.
15. TESTING HAS BEEN CONDUCTED FOR ASBESTOS, LEAD CONTAINING MATERIALS, AND OTHER HAZARDOUS ITEMS. REMEDIATION PROCEDURES AND SCOPE OF WORK FOR THIS WORK IS UNDER SEPARATE COVER. IF ANY ADDITIONAL HAZARDOUS MATERIALS NOT SHOWN IN THE REPORT ARE ENCOUNTERED PRIOR TO OR DURING THE DEMOLITION PROCESS, THE GENERAL CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY. GENERAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION PERTAINING TO THE HAZARDOUS MATERIALS ENCOUNTED.
16. THE CONSTRUCTION OF THIS PROJECT IS PHASED AND WILL REMAIN OPERATIONAL AND OCCUPIED. REFER TO PHASING DOCUMENTATION UNDER SEPARATE COVER.

REVISIONS

DATE	DESCRIPTION
10-03-2014	PERMIT SUBMISSION

SEAL

KEY PLAN

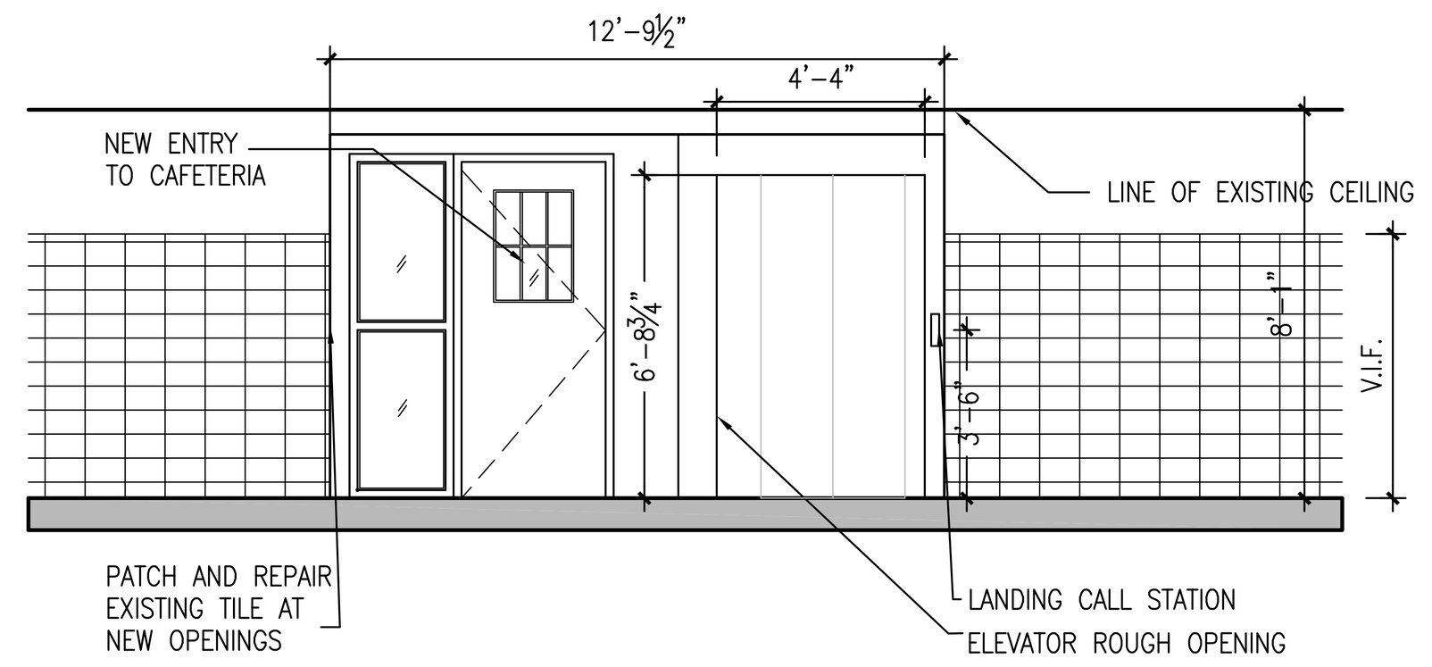
Sorg Architects
918 U Street NW, Washington DC 20001
T202.393.6445 F202.393.6497 sorgarchitects.com

PARK VIEW ELEMENTARY SCHOOL
PHASE 1 Modernization

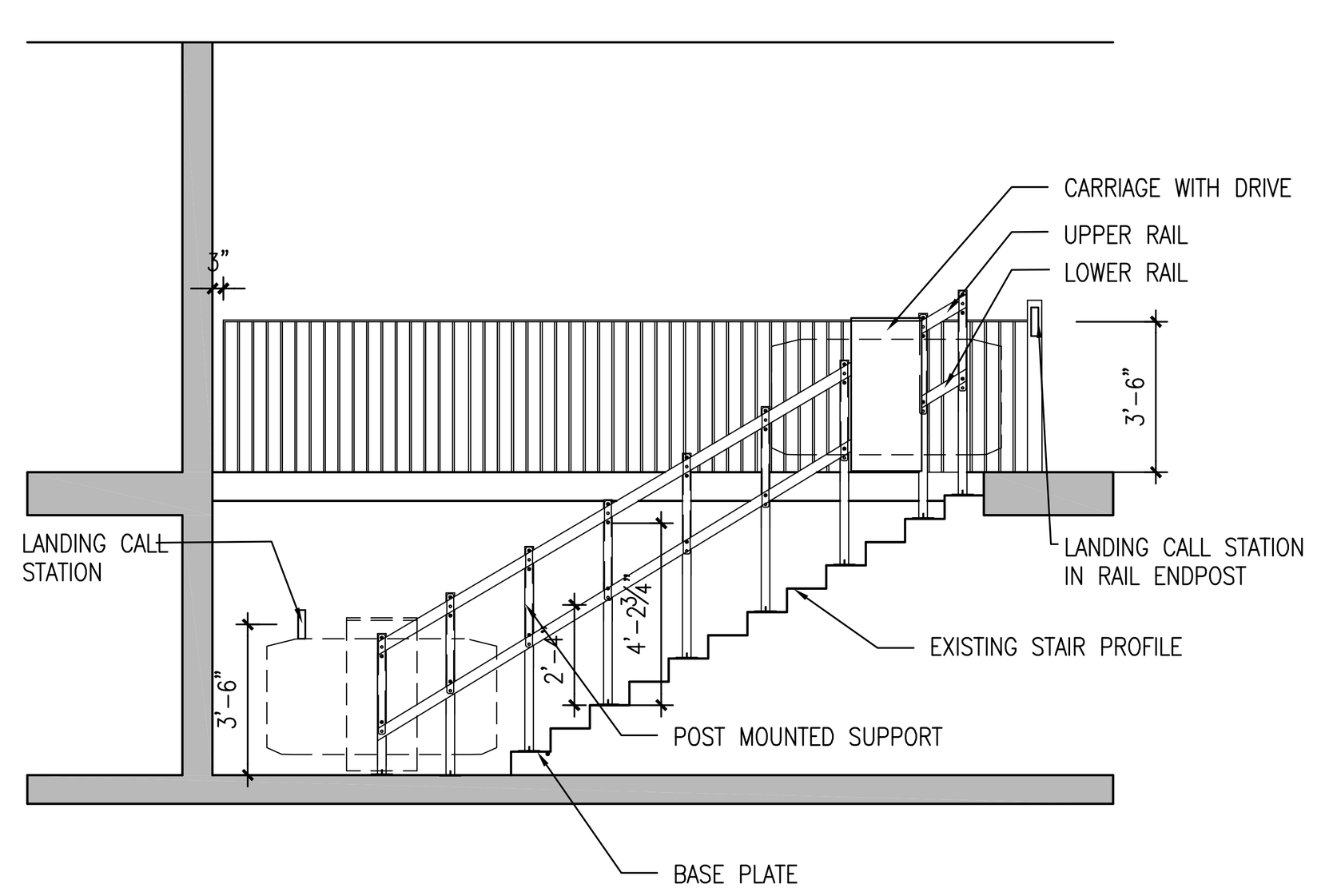
PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE
COVER SHEET

DISCIPLINE	DRAWING NUMBER
SCALE NTS	G0.01
DATE OCTOBER 3, 2014	
DRAWN BY	
CHECKED BY	
SORG PROJECT # 1411	



6 CORRIDOOR ELEVATION @ CAFETERIA
A1.01 SCALE: 1/4" = 1'-0"



7 SECTION @ GYMNASIUM LIFT
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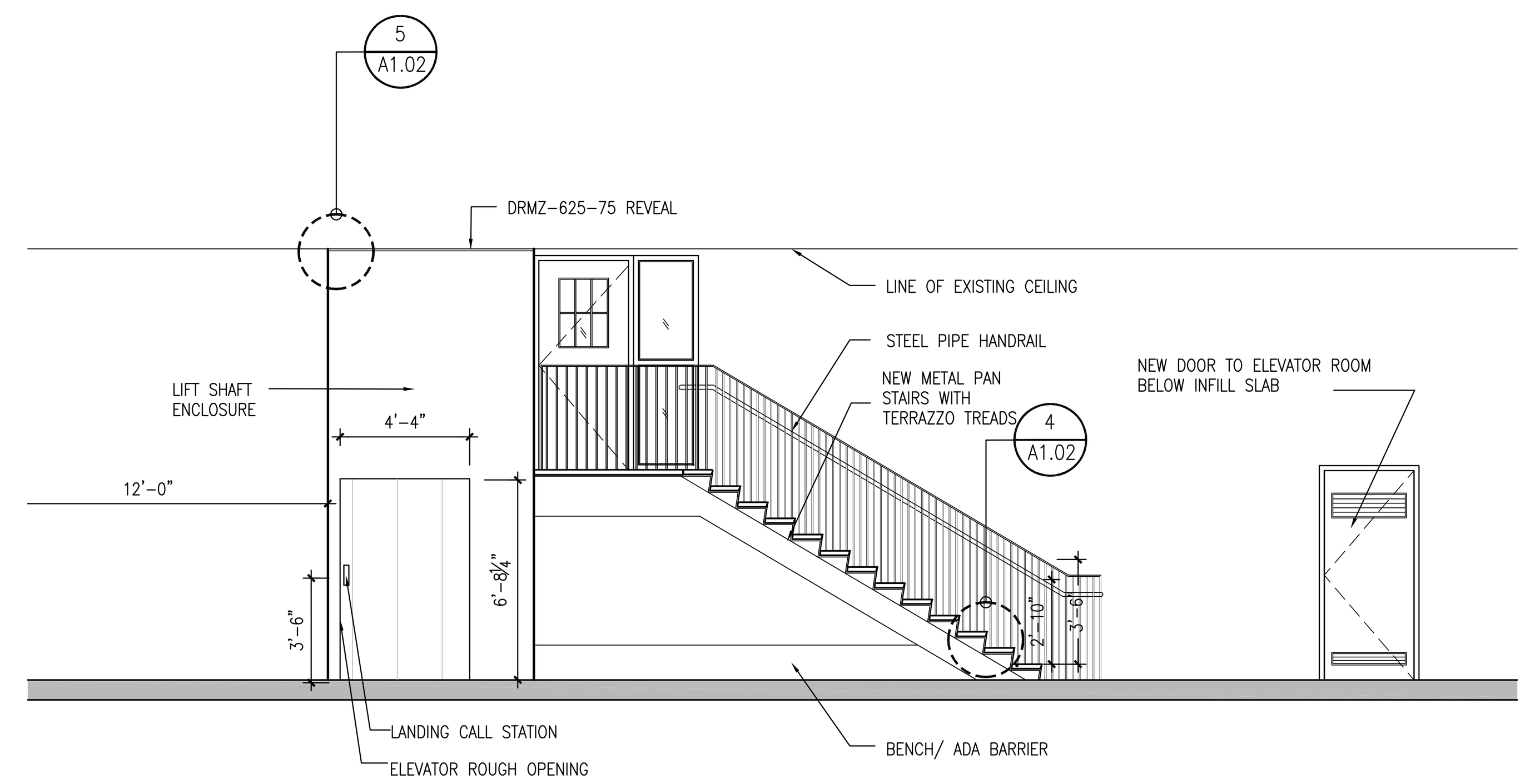
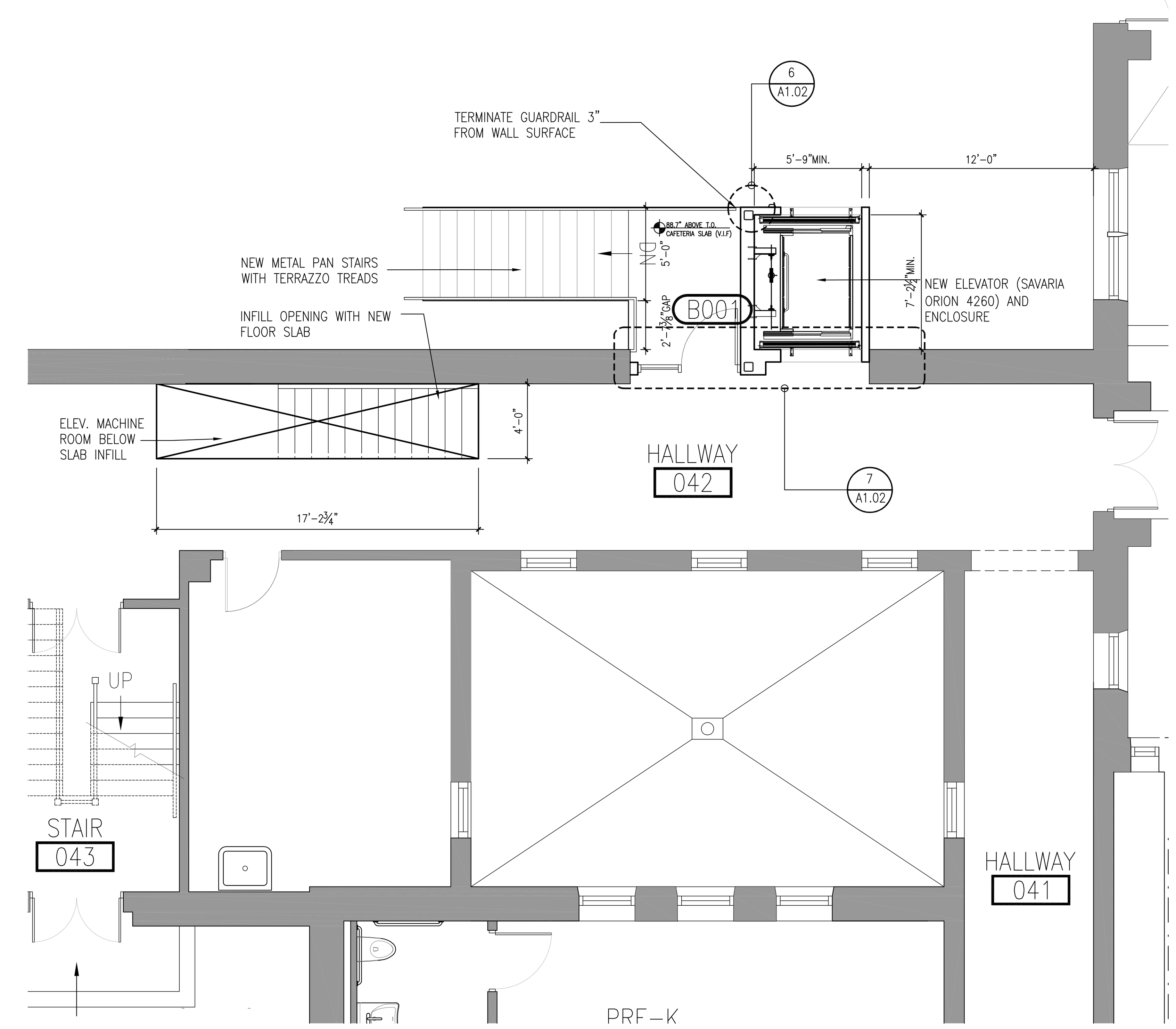


3 ELEVATION @ CAFETERIA LIFT
A1.01 SCALE: 1/4" = 1'-0"



1 NEW PLAN @ CAFETERIA LIFT
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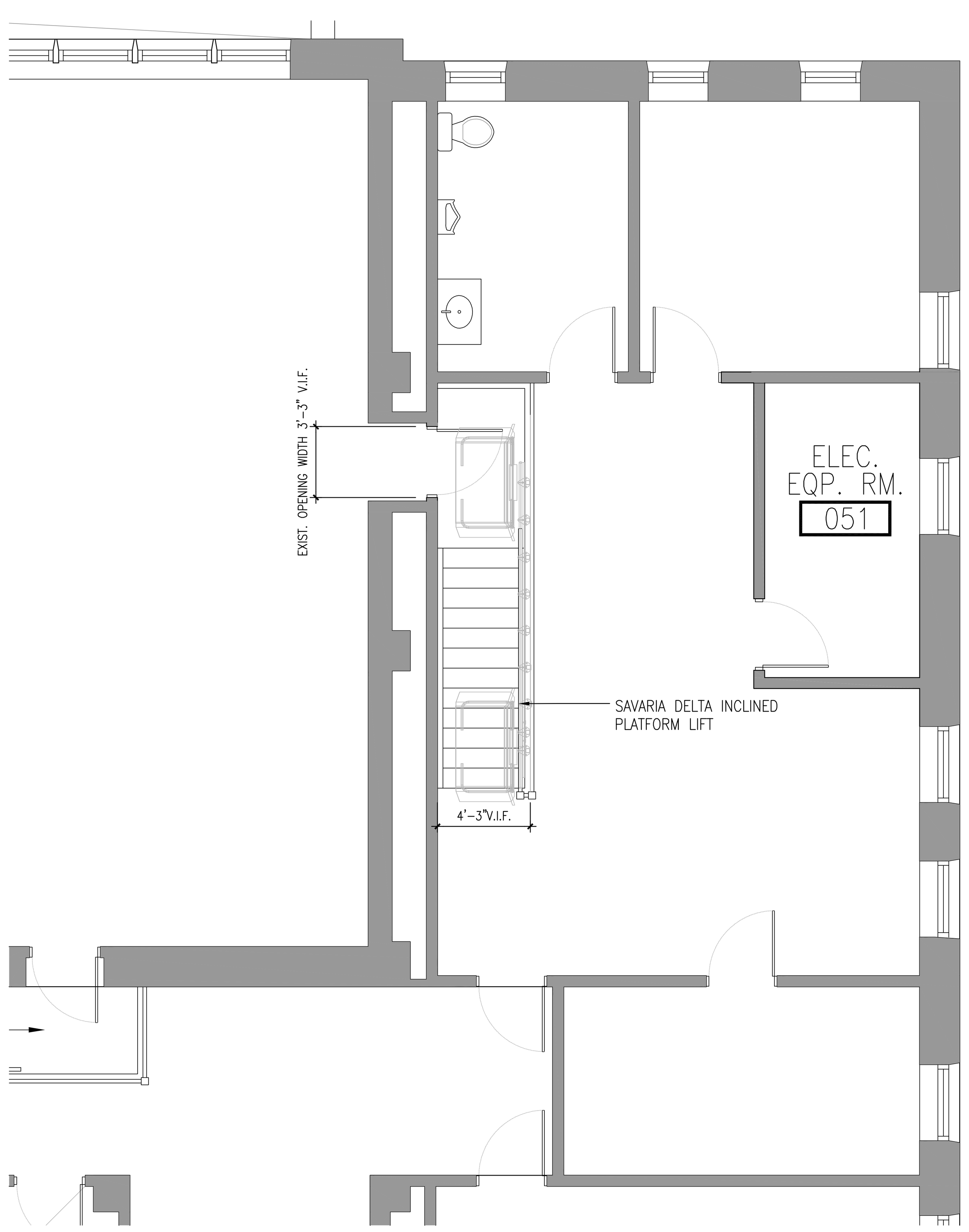
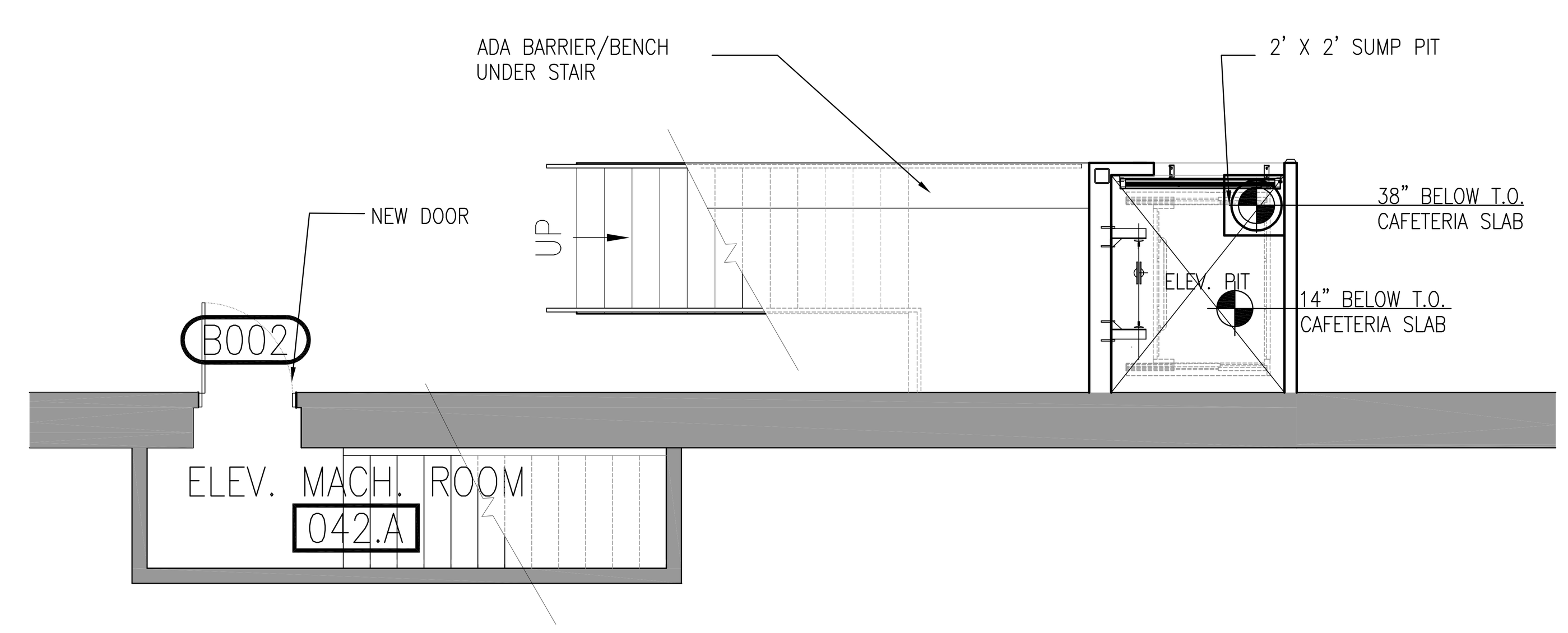


8 NEW PLAN @ GYMNASIUM LIFT
A1.01 SCALE: 1/4" = 1'-0"



4 NEW LOWER LEVEL PLAN @ CAFETERIA LIFT
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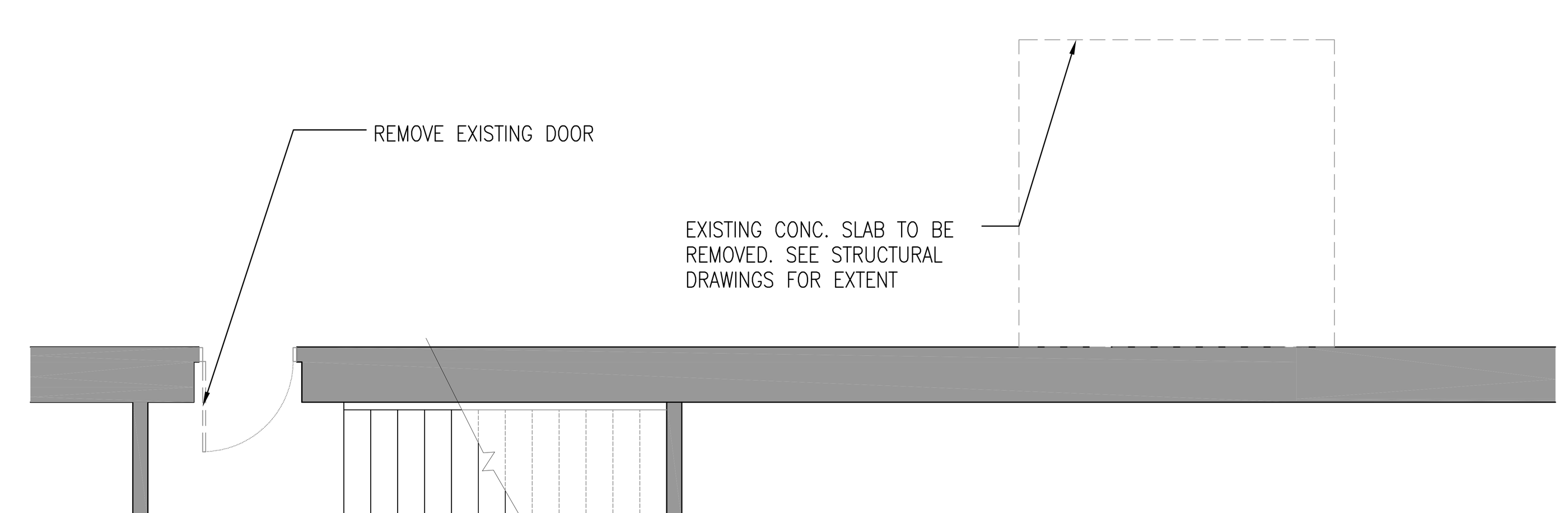

5 DEMO LOWER LEVEL PLAN @ CAFETERIA LIFT
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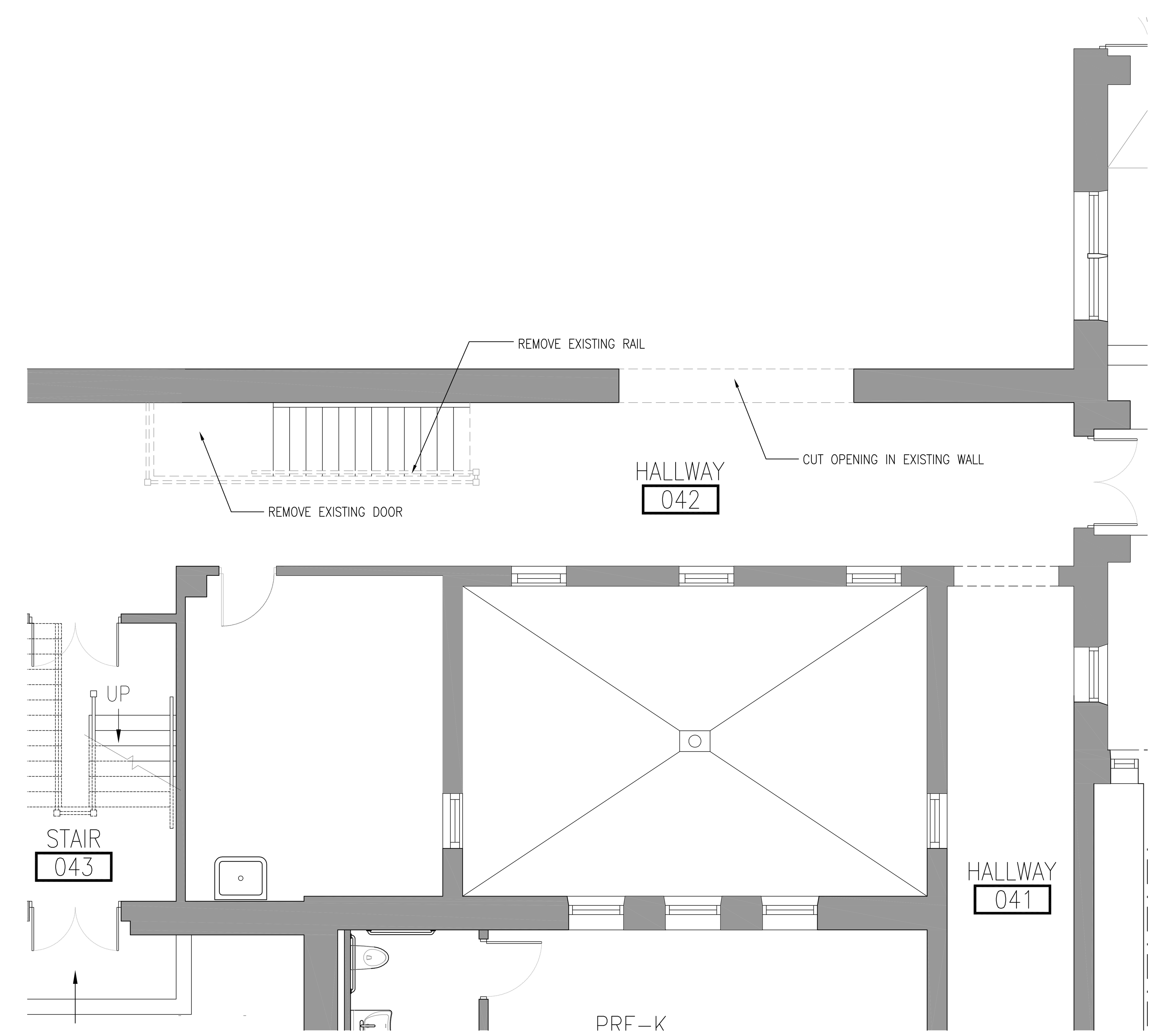

2 DEMO PLAN @ CAFETERIA LIFT
A1.01 SCALE: 1/4" = 1'-0"

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10. FLOORING TO BE PATCHED AS REQUIRED TO MATCH EXISTING.

SEAL

DISTRICT OF COLUMBIA SUMAN A. SORG No. REGISTERED ARCHITECT

KEY PLAN

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918 U Street NW, Washington DC 20001
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PARK VIEW ELEMENTARY SCHOOL

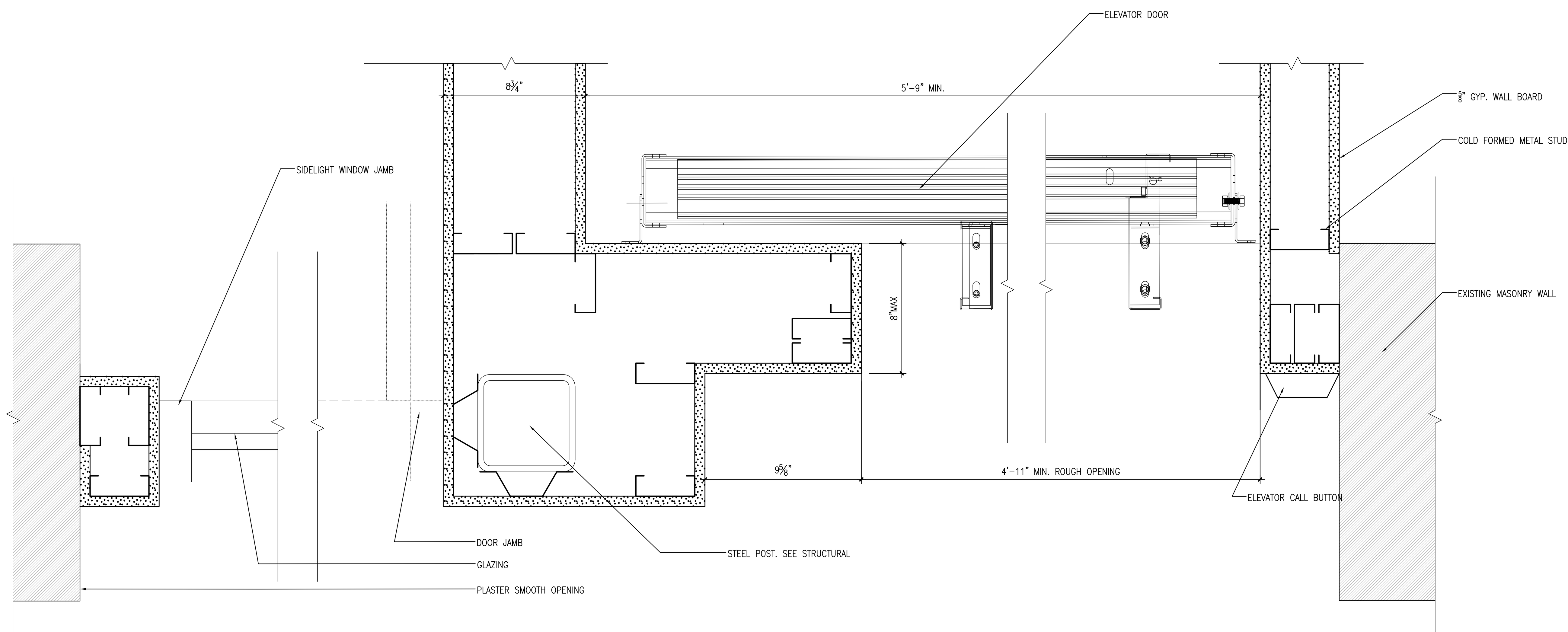
PHASE 1 Modernization

PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE

ENLARGED PLANS, ELEVATIONS & DETAILS

DISCIPLINE	DRAWING NUMBER
SCALE AS NOTED	A1.01
DATE OCTOBER 3, 2014	
DRAWN BY	
CHECKED BY	
SORG PROJECT # 1411	



7 NEW OPENING DETAILS
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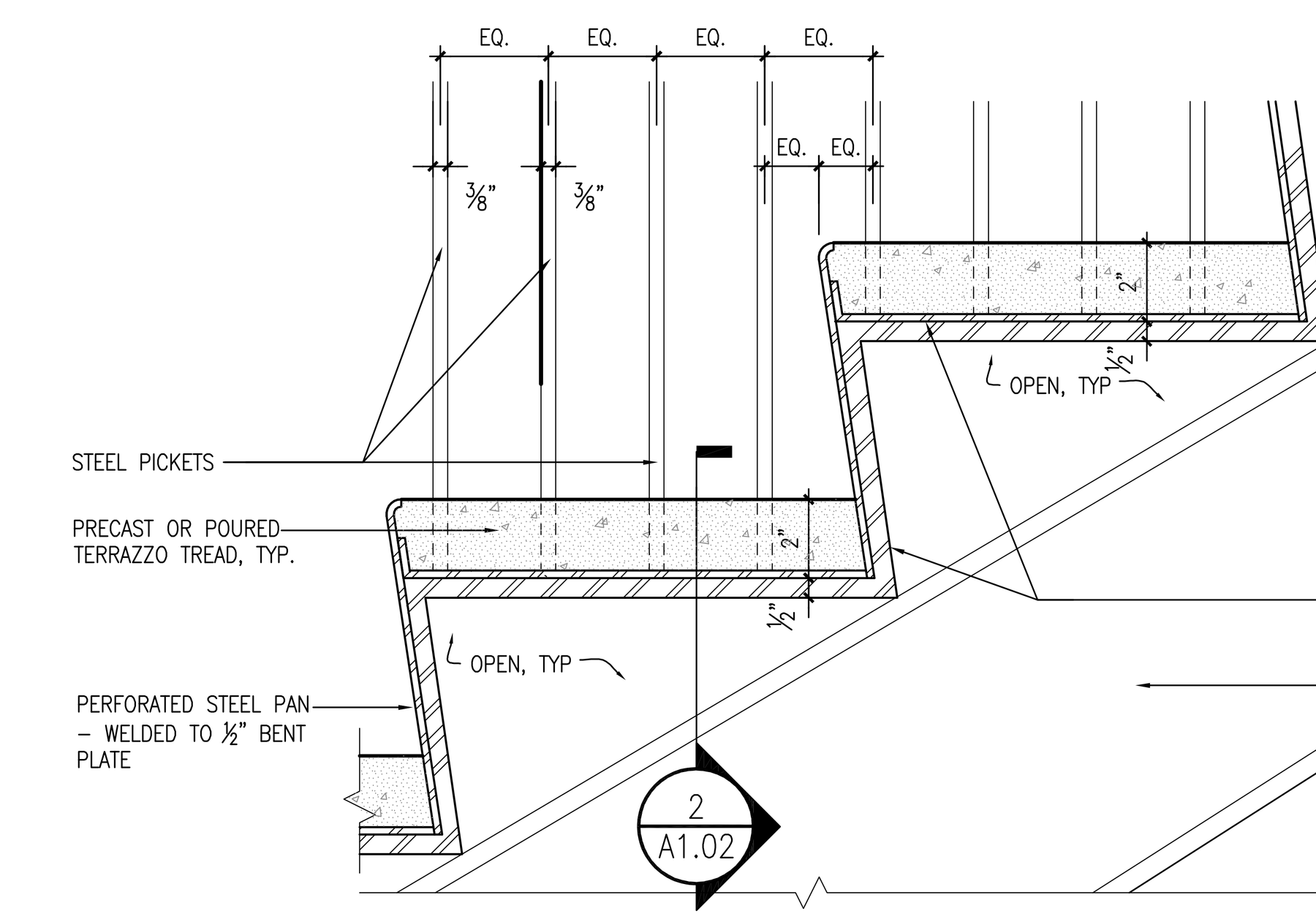

4 CAFETERIA STAIR SECTION DETAIL
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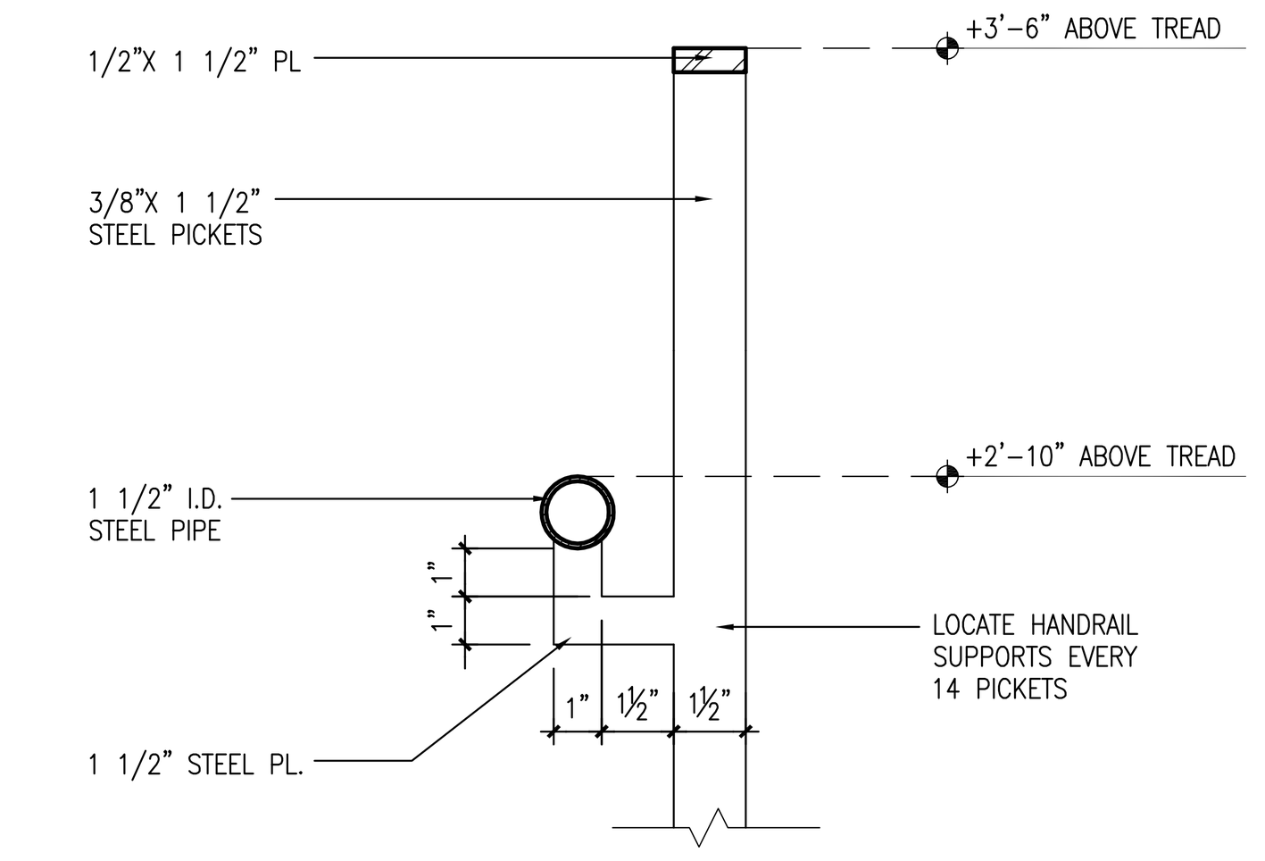

3 CAFETERIA STAIR GUARDRAIL/HANDRAIL DETAIL
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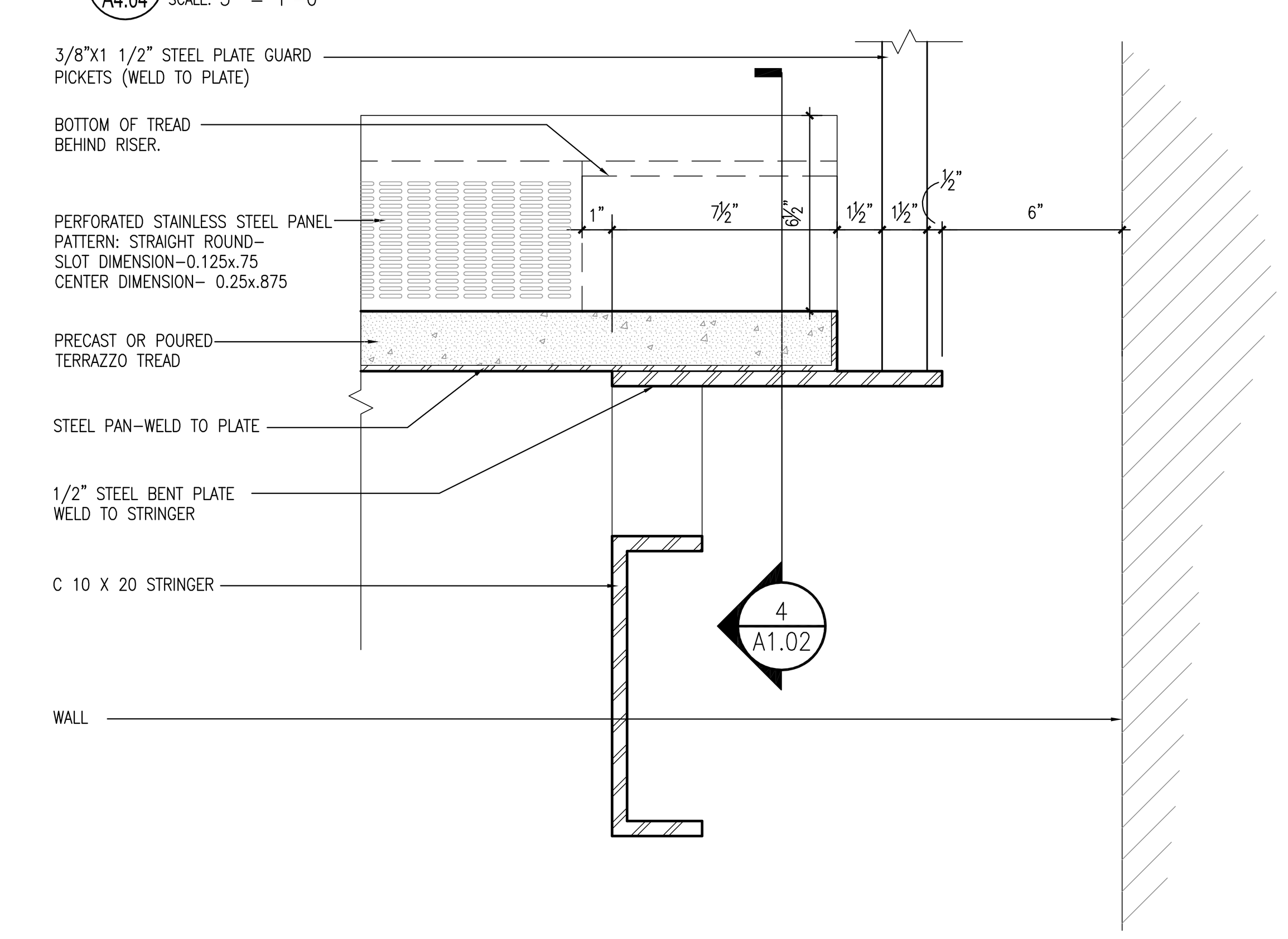

2 CAFETERIA STAIR SECTION DETAIL
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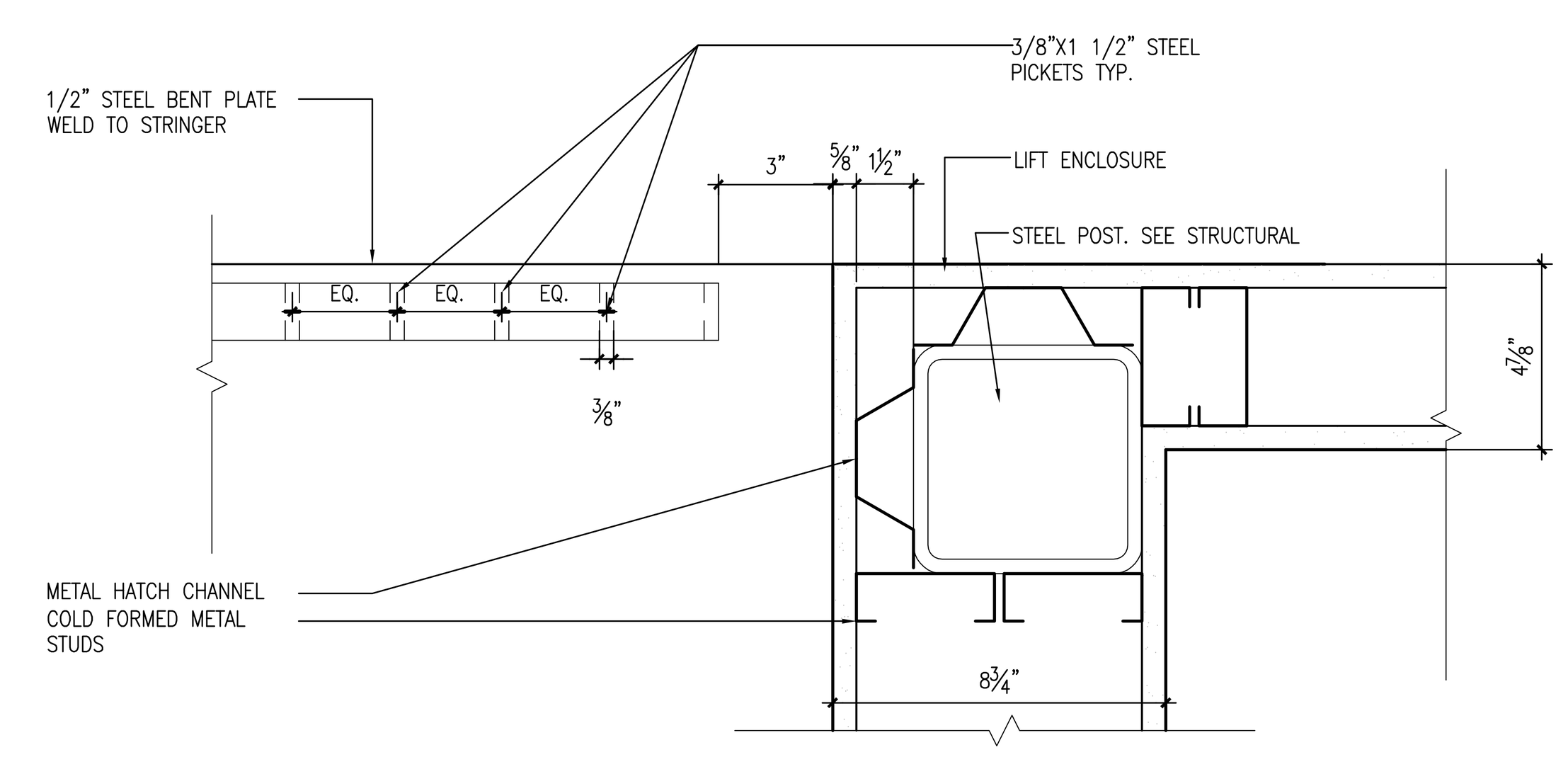

6 PLAN DETAIL @ ELEVATOR SHAFT CORNER
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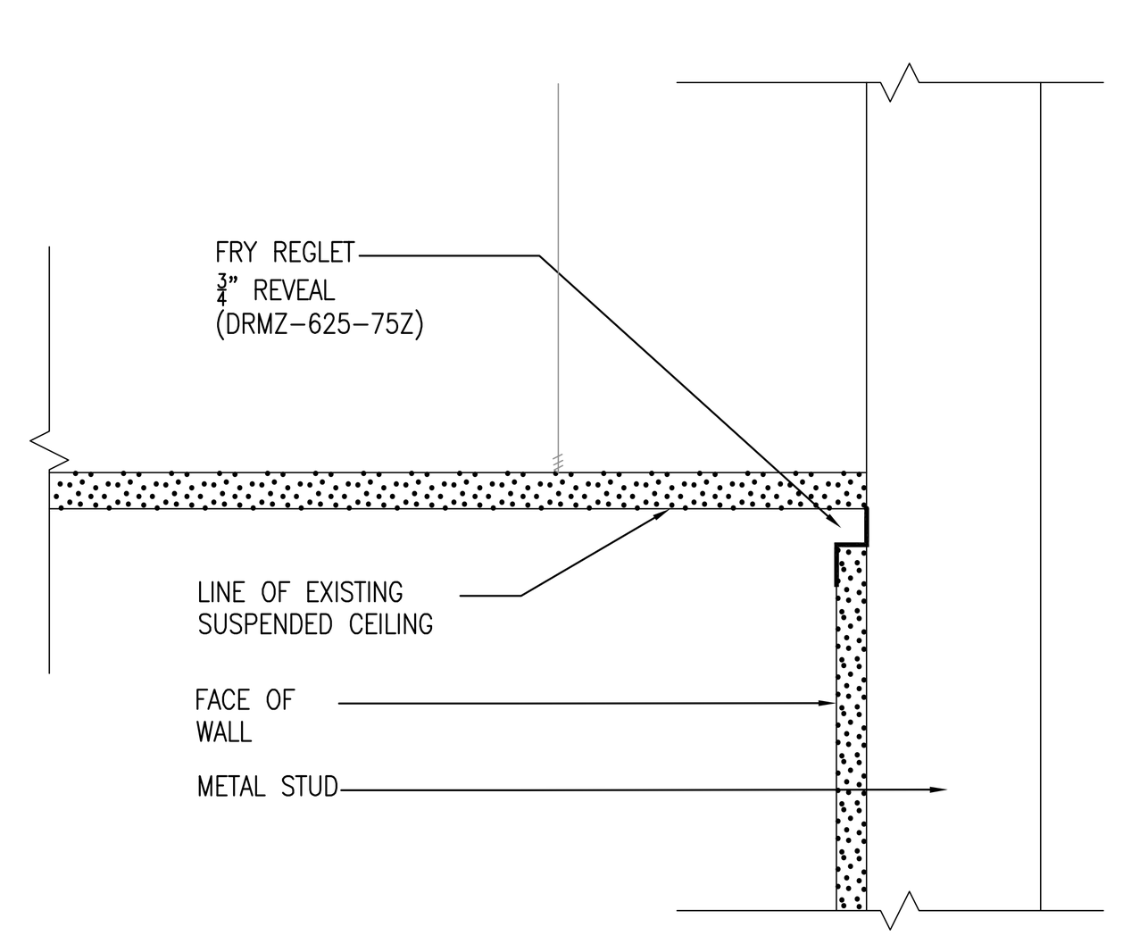

5 CEILING DETAIL @ CAFETERIA LIFT ENCLOSURE
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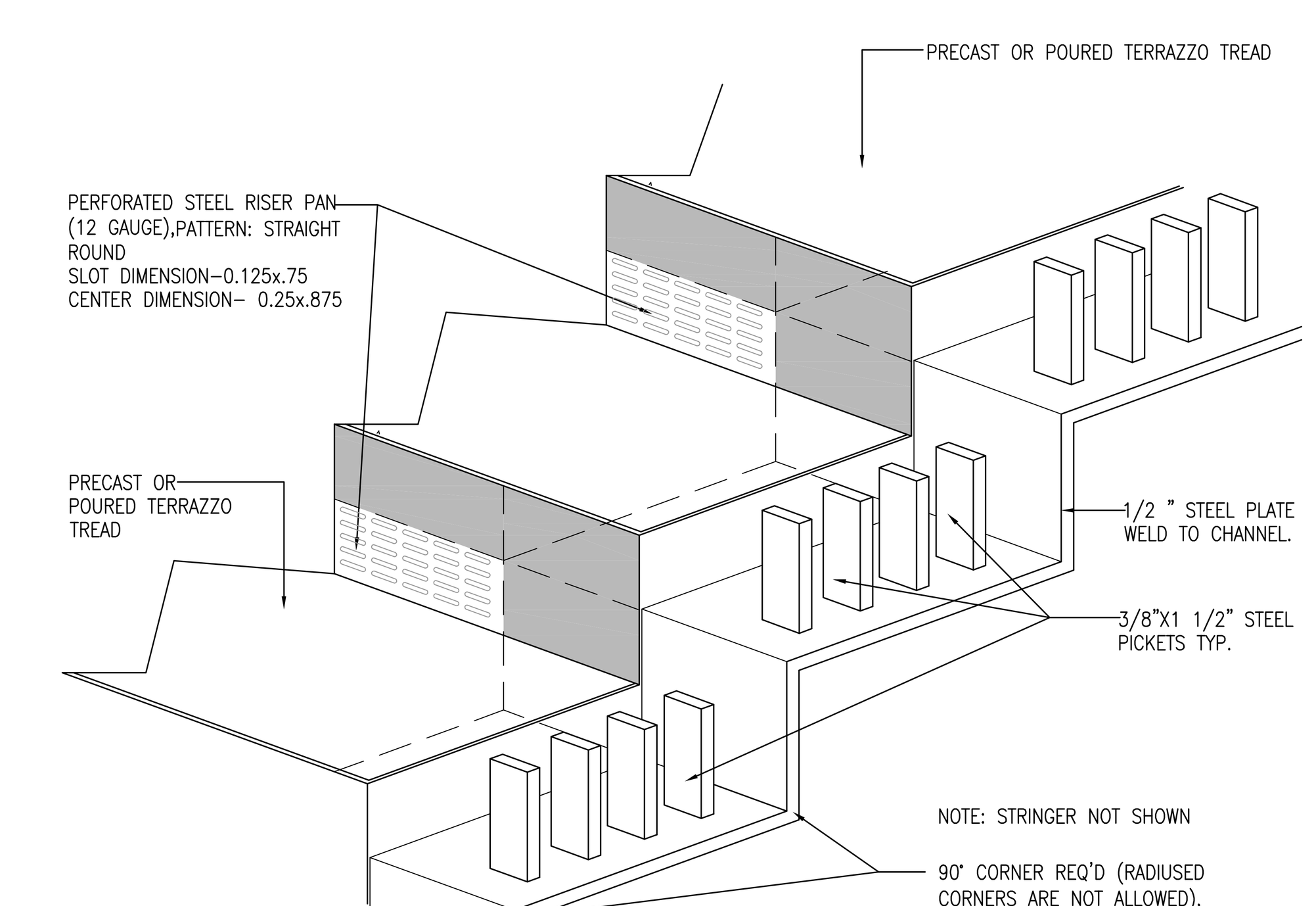

1 CAFETERIA STAIR AXONOMETRIC DETAIL
A1.02 SCALE: 3" = 1'-0"

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REVISIONS	10-03-2014	PERMIT SUBMISSION

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DISCIPLINE	DRAWING NUMBER
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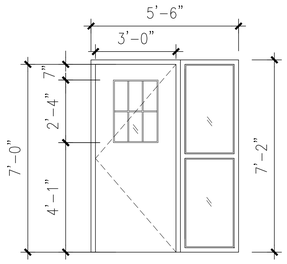

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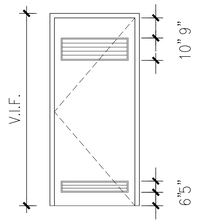
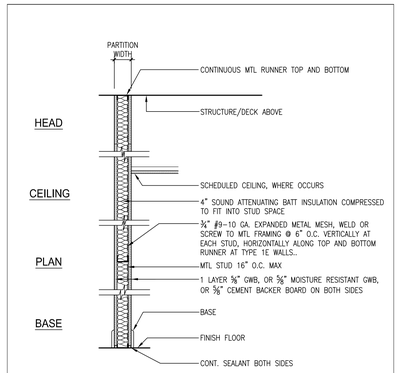


B

DOOR SCHEDULE

DOOR NO.	DOOR					FRAME		HEAD	JAMB	SILL	FIRE RATING (MIN.)	HW	REMARKS
	(QTY.) WIDTH	HEIGHT	MAT.	FIN.	TYPE	MAT.	FIN.						
D001	3'-0"	7'-0"	WOOD	PAINT	A	METAL	PAINT	–	–	–	–	–	
D002	3'-0"	7'-0"	METAL	PAINT	B	METAL	PAINT	–	–	–	–	–	V.I.F. EXISTING OPENING HEIGHT



PARTITION NUMBER	PARTITION WIDTH	STUD SIZE	MAX. STUD SPACING O.C.	MAX. UNBRAC. HEIGHT	MIN STC	UL#	FIRE RATING	FINISH SIDE 1	SOUND BATT INSUL	FINISH SIDE 2	REMARKS
1	VARIES	VARIES	24"	17'-3"	45	–	–	GWB	YES	GWB	

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PHASE 1 Modernization

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DRAWING TITLE

DOOR AND PARTITION SCHEDULE

DISCIPLINE	DRAWING NUMBER
SCALE AS NOTED	A1.03
DATE OCTOBER 3, 2014	
DRAWN BY	
CHECKED BY	
SORG PROJECT # 1411	

DESIGN CRITERIA

STRUCTURAL DRAWINGS ARE PREPARED IN COMPLIANCE WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC), EXISTING BUILDING AND AS AMENDED BY DCMR, 2013 EDITION.

DESIGN LOADING

LIVE LOADS:	CLASSROOMS	40 PSF
	CORRIDORS AND STAIRS	100 PSF
	ELEVATOR MACHINE ROOM	125 PSF OR CONCENTRATED LOADING FROM EQUIP.

EXISTING CONDITIONS

INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON AVAILABLE DESIGN DOCUMENTS AND FIELD OBSERVATION. CONTRACTOR SHALL BECOME FAMILIAR WITH THE IMMEDIATE WORK AREA AND THE SURROUNDING AREA. NOTIFY STRUCTURAL ENGINEER UPON DISCOVERY OF ANY DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL EXISTING CONDITIONS.

FIELD VERIFY DIMENSIONS CRITICAL TO MATERIAL PURCHASES, ASSEMBLY, AND INSTALLATION PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION OF STRUCTURAL COMPONENTS.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B (FY = 46KSI). ALL OTHER STEEL SHALL CONFORM TO ASTM A36 (FY = 36 KSI). BOLTS SHALL BE HIGH STRENGTH 3/4" DIAMETER CONFORMING TO ASTM A325, U.N.O. WELDING SHALL BE DONE ONLY BY CERTIFIED WELDERS. WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION".

BOLTED, WELDED AND COMBINATION CONNECTIONS SHALL BE DETAILED IN ACCORDANCE WITH "FRAMED BEAM CONNECTIONS" USING TWO WEB ANGLES AS SHOWN IN THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION".

SUBMIT STEEL SHOP DRAWINGS SHOWING COMPLETE DIMENSIONS AND DETAILS FOR APPROVAL PRIOR TO FABRICATION. COORDINATE DIMENSIONS AND DETAILS OF STEEL FABRICATIONS WITH FIELD CONDITIONS. VENDOR SUPPLIED EQUIPMENT, AND WORK OF OTHER TRADES. THE STRUCTURAL CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS UNLESS THE STRUCTURAL ENGINEER'S APPROVAL IS OBTAINED IN WRITING.

CONTRACTOR SHALL PROVIDE ADEQUATE BRACING FOR STEEL FRAME MEMBERS AND AUXILIARY FRAMES DURING ERECTION. BRACING ARRANGEMENT SHALL REMAIN IN PLACE UNTIL PERMANENT CONNECTIONS HAVE BEEN MADE

OPENINGS THROUGH BEAMS AND COLUMNS SHALL NOT BE PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. STRUCTURAL STEEL CAST INTO OR IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED. STRUCTURAL STEEL TO RECEIVE SPRAY ON FIREPROOFING SHALL NOT BE PAINTED.

CONCRETE ANCHORS SHALL BE AS INDICATED ON DRAWINGS. SUBSTITUTIONS MAY BE REQUESTED PROVIDED THAT CAPACITIES ARE SHOWN TO BE EQUAL TO, OR GREATER THAN, THOSE OF SPECIFIED ANCHOR. SUBMIT REQUEST FOR SUBSTITUTION TO STRUCTURAL ENGINEER FOR APPROVAL..

SEE ARCHITECTURAL DRAWINGS FOR FIRE-PROOFING REQUIREMENTS.

DRILLING, CORE DRILLING, AND SAW-CUTTING IN SLABS

THE EXISTING STRUCTURE IS CONSTRUCTED OF CONCRETE WITH TERRACOTTA BLOCK INFILL & PLAIN MASONRY.

SAW-CUT OPENINGS: OPENINGS ARE TO BE SAW-CUT FULL DEPTH OF SLAB. CORE DRILL CORNERS. DO NOT OVER-CUT AT CORNERS.

SPECIAL INSPECTIONS

AN INDEPENDENT INSPECTION AGENCY SHALL BE RETAINED BY THE OWNER TO INSPECT/ MONITOR/ TEST THE FOLLOWING STRUCTURAL MATERIALS IN ACCORDANCE WITH IBC CHAPTER 17, THE DISTRICT OF COLUMBIA DCRA SPECIAL INSPECTIONS PROGRAM AND THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT:

EARTHWORK OPERATIONS INCLUDING SUB-GRADE, COMPACTED FILL AND BEARING CAPACITY
CAST-IN-PLACE CONCRETE
STRUCTURAL STEEL
COLD FORMED METAL FRAMING
POST INSTALLED ANCHORS

IN ADDITION TO TESTING AND INSPECTION, AGENCY SHALL:

NOTIFY ARCHITECT, ENGINEER AND CONTRACTOR PROMPTLY OF IRREGULARITIES AND DEFICIENCIES OBSERVED IN THE WORK DURING TESTING AND INSPECTION.

SUBMIT A CERTIFIED WRITTEN REPORT OF EACH TEST, INSPECTION, AND SIMILAR QUALITY-CONTROL SERVICE TO ARCHITECT AND ENGINEER WITH COPY TO CONTRACTOR AND TO AUTHORITIES HAVING JURISDICTION.

INTERPRET TESTS AND INSPECTIONS AND STATE IN EACH REPORT WHETHER TESTED AND INSPECTED WORK COMPLIES WITH OR DEVIATES FROM THE CONTRACT DOCUMENTS.

RE-TEST AND RE-INSPECT CORRECTED WORK.

SUBMIT A FINAL LETTER, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION, FOR EACH STRUCTURAL SYSTEM INSPECTED CERTIFYING THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.

CONCRETE (CAST-IN-PLACE)

CONCRETE DESIGN AND DETAILING SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITIONS. CONTRACTOR SHALL SUBMIT MIX DESIGNS ACCOMPANIED BY APPROPRIATE GRAPHS AND BACKGROUND DATA FOR APPROVAL. MIX DESIGN SHALL INDICATE 7 AND 28 DAYS STRENGTHS, CEMENT CONTENT, AIR CONTENT, WATER-CEMENT RATIO, AMOUNT OF FINE AND COARSE AGGREGATES, AND ADMIXTURES.

MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE.

ALL OTHER CONCRETE, U.N.O. ON PLAN 3000 PSI

SLABS POURED ON GRADE SHALL BE MINIMUM 5 INCHES THICK, UNLESS NOTED OTHERWISE ON PLAN, PLACED OVER VAPOR BARRIER AND 6 INCHES OF #57 WASHED GRAVEL. SLABS ON GRADE SHALL BE REINFORCED WITH 6x6-W2.0xW2.0 WELDED WIRE FABRIC PLACED AT MID-DEPTH OF SLAB. LAP WELDED WIRE FABRIC ONE FULL MESH AT ENDS AND SIDES.

ALL CONCRETE WORK, REINFORCING PLACEMENT, FORMWORK AND SHORING SHALL BE INSPECTED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER. CONCRETE QUALITY CONTROL, INSPECTION AND TESTING SHALL BE IN STRICT ACCORDANCE WITH THE LOCAL BUILDING CODE REQUIREMENTS.

USE OF ADDITIVES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. USE OF ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED.

REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. BARS SHALL BE BRANDED BY THE MANUFACTURER WITH BAR SIZE AND GRADE OF STEEL AND CERTIFIED MILL REPORTS SHALL BE SUBMITTED FOR RECORD. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

PROVIDE CORNER BARS AT JUNCTIONS OF CONCRETE WALLS, GRADE BEAMS AND WALL FOOTINGS AND LAP WITH WALL REINFORCING AS SHOWN IN TYPICAL DETAILS. SIZE AND SPACING OF CORNER BARS TO BE SAME AS HORIZONTAL WALL REINFORCING, UNLESS SHOWN OTHERWISE. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AS NECESSARY.PROVIDE STANDARD HOOKS AT DISCONTINUOS ENDS. TENSION AND COMPRESSION LAP SPLICES SHALL NOT BE LESS THAN THE SPLICE LENGTHS AS GIVEN IN ACI-318. GENERALLY LAP TOP BARS AT MID SPAN AND BOTTOM BARS AT SUPPORTS. PROVIDE PLACING ACCESSORIES IN ACCORDANCE WITH ACI RECOMMENDATIONS.

CONCRETE PROTECTION FOR REINFORCEMENT (CAST-IN-PLACE CONCRETE)

PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER FOR REINFORCEMENT:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (FOOTINGS BOTTOMS): 3"
FOUNDATION WALLS:
OUTSIDE FACE: 2"
INSIDE FACE: 1"

WELDED WIRE FABRIC SHALL BE PLACED AT MID-DEPTH OF SLAB OR 2 INCHES BELOW THE TOP SURFACE, WHICHEVER IS LESS. LAP WELDED WIRE FABRIC ONE FULL MESH AT ENDS AND SIDES.

METAL FLOOR DECK

METAL FLOOR DECK SHALL CONFORM TO THE A.I.S.I. SPECIFICATION FOR THE DESIGN OF LIGHT GAGE COLD-FORMED STRUCTURAL STEEL MEMBERS AND THE STEEL DECK INSTITUTE'S DESIGN REQUIREMENTS.

METAL FLOOR DECK SHALL BE 1.5" 20 GAGE, BONDING-TYPE, WITH SUFFICIENT INTEGRAL LOCKING LUGS FOR COMPOSITE ACTION WITHOUT VERTICAL OR HORIZONTAL SEPARATION. STEEL SHEETS SHALL CONFORM TO ASTM A-653, WITH A MINIMUM YIELD POINT OF 33 KSI.

METAL FLOOR DECK SHALL BE CONTINUOUS OVER SUPPORTS AND SHALL BE WELDED AT UNIT ENDS AND AT INTERMEDIATE SUPPORTS. WELDING AND FASTENING, END LAPS AND SIDE LAPS SHALL CONFORM TO THE APPROPRIATE FLOOR SYSTEM UL-REQUIREMENTS AND AS SPECIFIED BELOW, WHICHEVER IS MORE STRINGENT:

ATTACHMENT AT SUPPORTS SHALL BE 5/8"Ø PUDDLE ARC WELDS, 36/3 WELD PATTERN.
ATTACHMENT AT SIDE LAPS SHALL BE #10 TEK SCREWS BY BUILDEX, 3 MIN. PER SPAN (18" O.C. MAX)
END BEARING SHALL BE 3" MIN.

PROVIDE CONTINUOUS SCREED ANGLE AT ALL SLAB EDGES WHERE THERE IS NO CONTINUOUS STEEL ANGLE. SCREED ANGLES SHALL BE INSTALLED WITH TIEBACK ANCHORS DESIGNED TO RESIST LATERAL PRESSURE OF WET CONCRETE.

METAL FLOOR DECK SHALL BE HOT-DIP GALVANIZED.

REINFORCE SLAB WITH 6x6 2.1x2.1 PLACED 1 INCH ABOVE TOP RIB OF DECK, U.N.O.

SHOP DRAWINGS

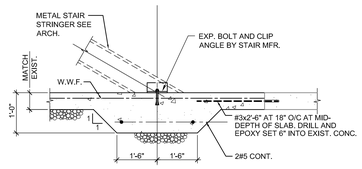
SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL (ONE REPRODUCIBLE PLUS NOT MORE THAN TWO PRINTS). SHOP DRAWING SUBMITTALS SHALL INDICATE THE REFERENCE STRUCTURAL OR ARCHITECTURAL DRAWINGS, OR SPECIFICATIONS WITH WHICH THE SHOP DRAWINGS WERE PREPARED. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION OF THE PROJECT IF THE GENERAL CONTRACTOR FAILS TO OBTAIN APPROVAL OF THE SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER IN WRITING CONCERNING DEVIATIONS AND/OR OMISSIONS FROM THE CONTRACT DOCUMENTS AT THE TIME OF SHOP DRAWING SUBMISSION. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND SHALL MAKE ALL CORRECTIONS HE DEEMS NECESSARY BEFORE SUBMISSION. THE GENERAL CONTRACTOR SHALL STATE ON THE SHOP DRAWINGS THAT CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND THAT ALL DIMENSIONS, CONDITIONS AND QUANTITIES HAVE BEEN REVIEWED AND VERIFIED AS SHOWN AND/OR CORRECTED ON THE SHOP DRAWINGS.

CHEMICAL ANCHORS TO CONCRETE

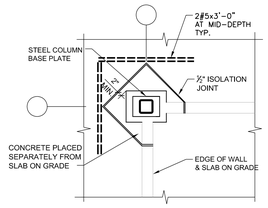
CHEMICAL ANCHORS SHALL CONSIST OF AN EQUAL TWO-COMPONENT STRUCTURAL GRADE EPOXY INJECTION MATERIAL. APPROVED SYSTEMS INCLUDE HILTI HIT HY200 OR ENGINEER APPROVED SUBSTITUTION. INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S PRINTED LITERATURE.

CHEMICAL ANCHORS TO HOLLOW BRICK

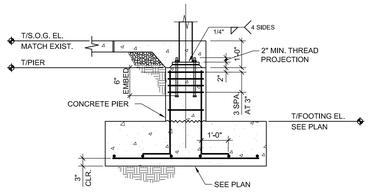
CHEMICAL ANCHORS SHALL BE HILTI HIT-HY 70. ANCHOR RODS SHALL BE ZINC PLATED OR GALVANIZED. FURNISHED WITH CHAMFERED ENDS, AND SHALL MEET STRENGTH AND DUCTILITY REQUIREMENTS EQUIVALENT ASTM A36 MATERIAL. NUTS AND WASHERS SHALL MEET THE SAME REQUIREMENTS AS THE ANCHOR ROD MATERIAL. INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S PRINTED LITERATURE. CONTRACTOR SHALL TAKE PRECAUTIONS NECESSARY DURING THE DRILLING PROCESS TO AVOID DAMAGING EXISTING REINFORCEMENT OR FACE SHELL MATERIAL OF BLOCK OR BRICK. ABANDON HOLES WITH INCORRECT DIAMETER, WITH SPALLING DAMAGE, OR ADJACENT TO LOOSE BRICK OR BLOCK, AND DRILL NEW HOLES AS REQUIRED.



TYPICAL THICKENED SLAB-ON-GRADE DETAIL



TYPICAL ISOLATION JOINT AT COLUMN DETAIL



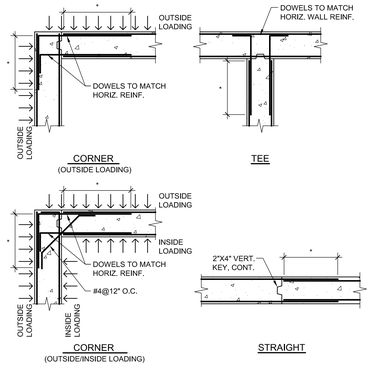
NOTES:

1 FOR ALL BASE PLATES, PROVIDE 1/4" LEVELING PLATE ON 11/4" NON-SHRINK GROUT WITH 4-3/4" DIA. ASTM F1554 GR36 ANCHOR RODS.

2 ANCHOR RODS SHALL HAVE 6" EMBEDMENT.

3 FOR PIER SIZE & REINF. AND BASE PLATE SIZE, SEE PLAN

TYPICAL FOOTING AND STEEL COLUMN BASE DETAIL



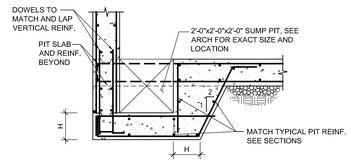
NOTES:

1 PROVIDE FULL HEIGHT KEYED CONSTRUCTION JOINTS IN CONCRETE WALLS AT CORNERS AND INTERSECTIONS AS SHOWN.

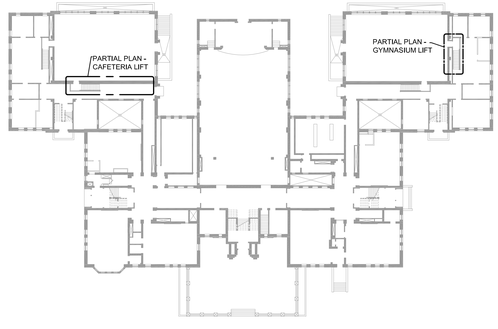
2 PROVIDE WATERSTOPS AS SHOWN ON WALL SECTIONS.

3 * PROVIDE CLASS B LAP SPLICE.

TYPICAL WALL CONSTRUCTION JOINT PLAN DETAILS



TYPICAL ELEVATOR SUMP PIT DETAIL



REVISIONS	DATE	DESCRIPTION
	10-03-2014	PERMIT SUBMISSION

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PARK VIEW ELEMENTARY SCHOOL

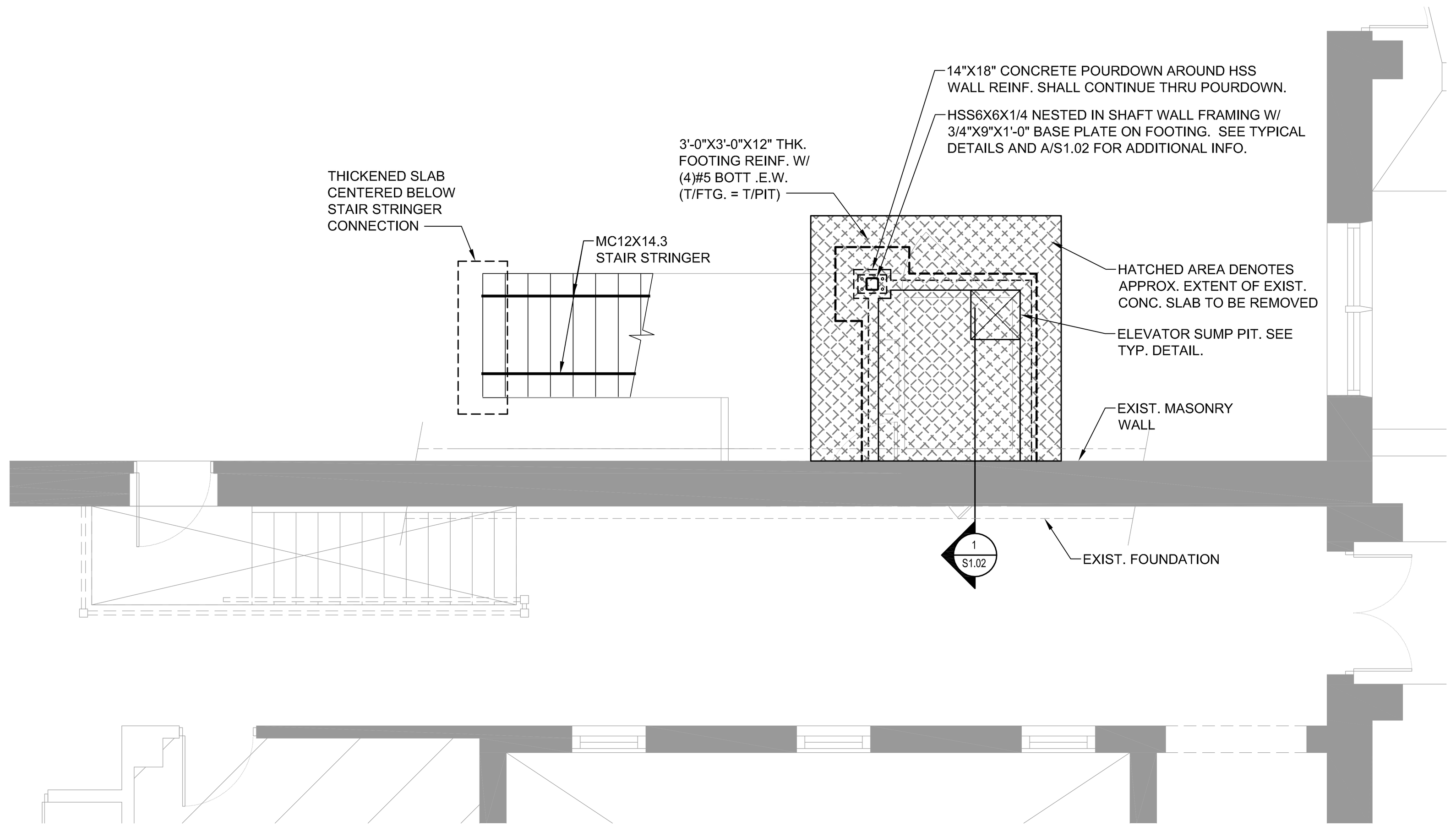
PHASE 1 Modernization

PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE

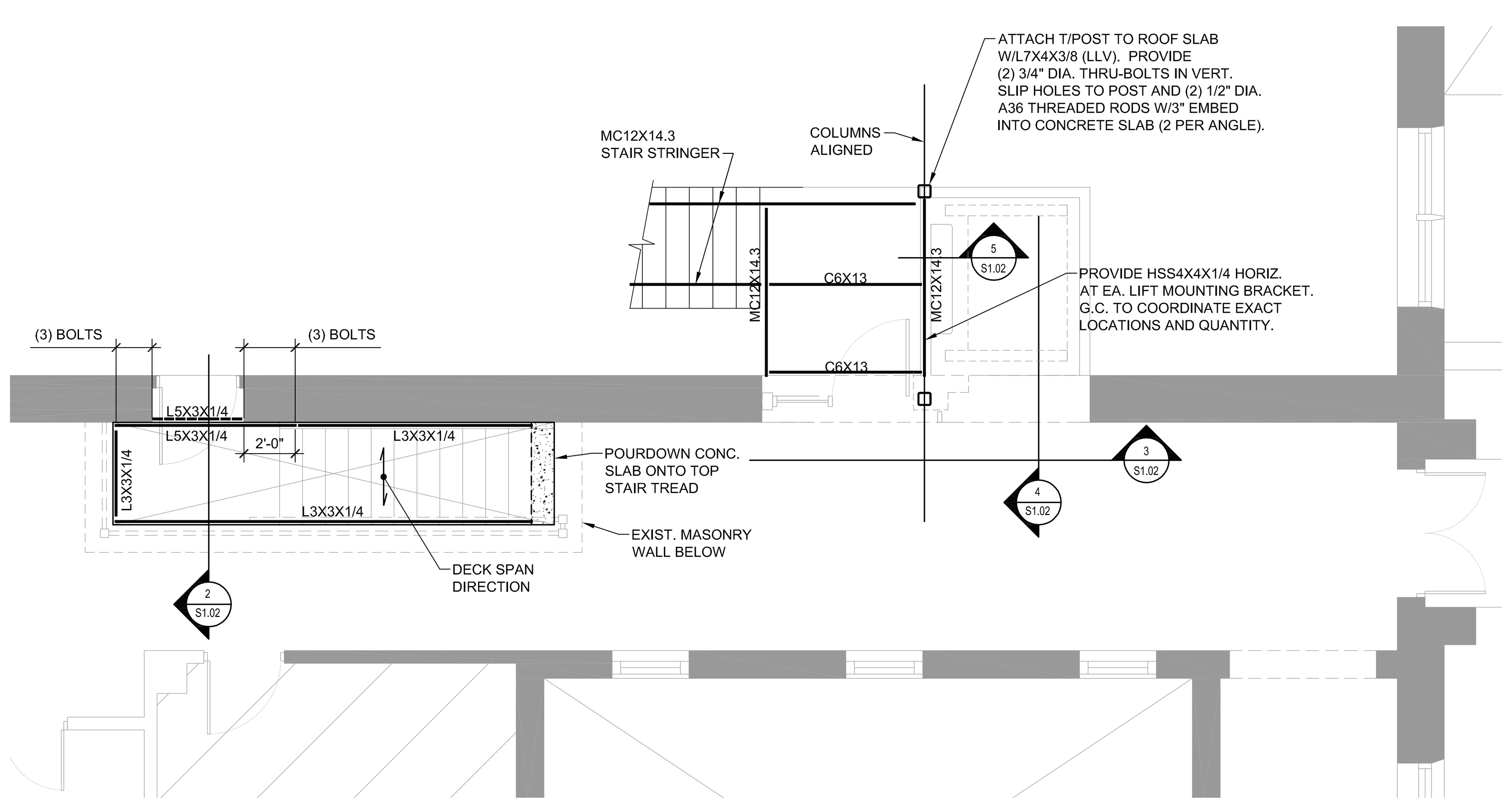
STRUCTURAL NOTES & TYPICAL DETAILS

DISCIPLINE STR	DRAWING NUMBER
SCALE	S1.01
DATE OCTOBER 3, 2014	
DRAWN BY GB	
CHECKED BY SHW	
SORG PROJECT # 1411	



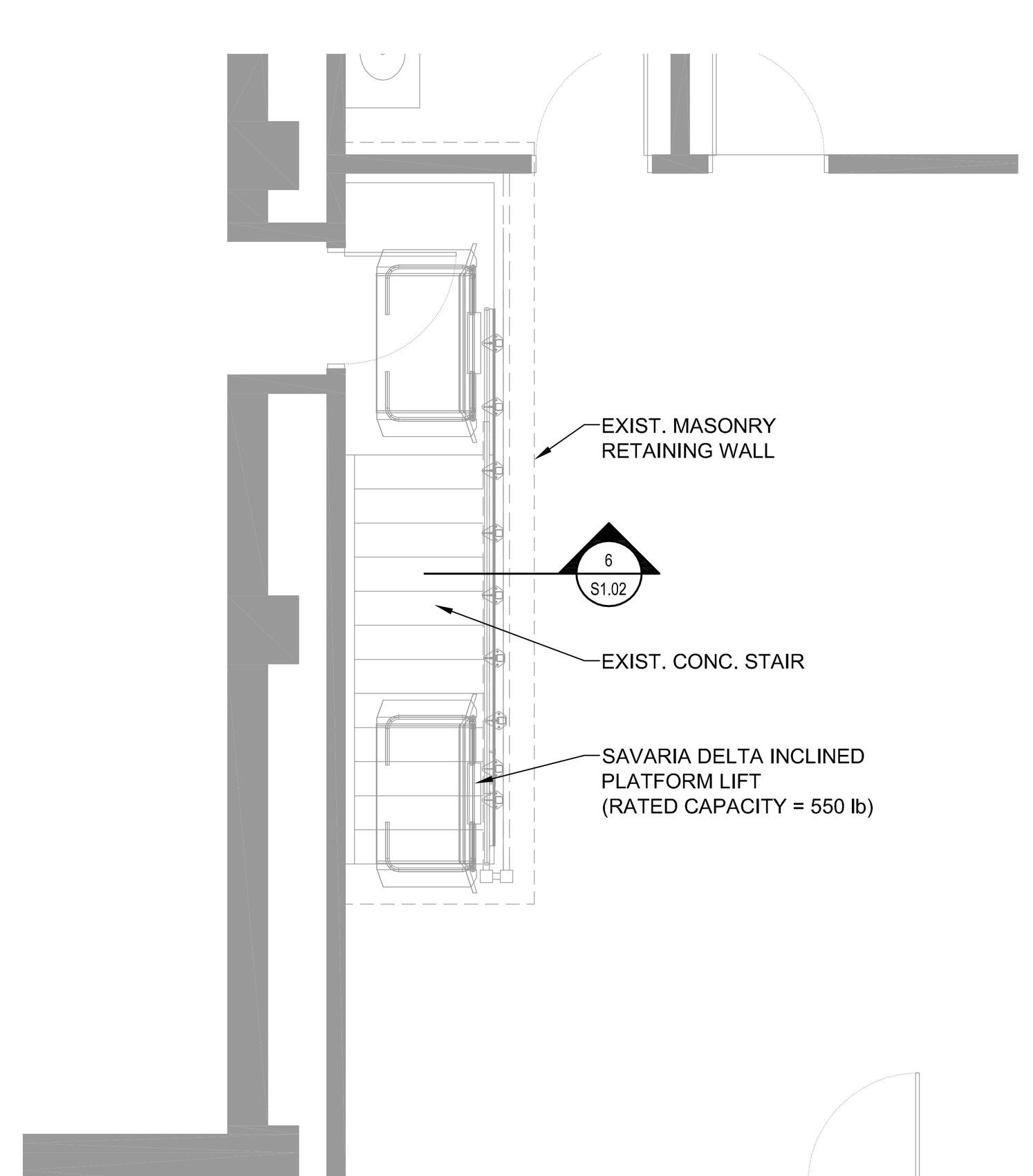
PARTIAL CAFETERIA LIFT GROUND FLOOR PLAN

SCALE: 1/4"=1'-0"



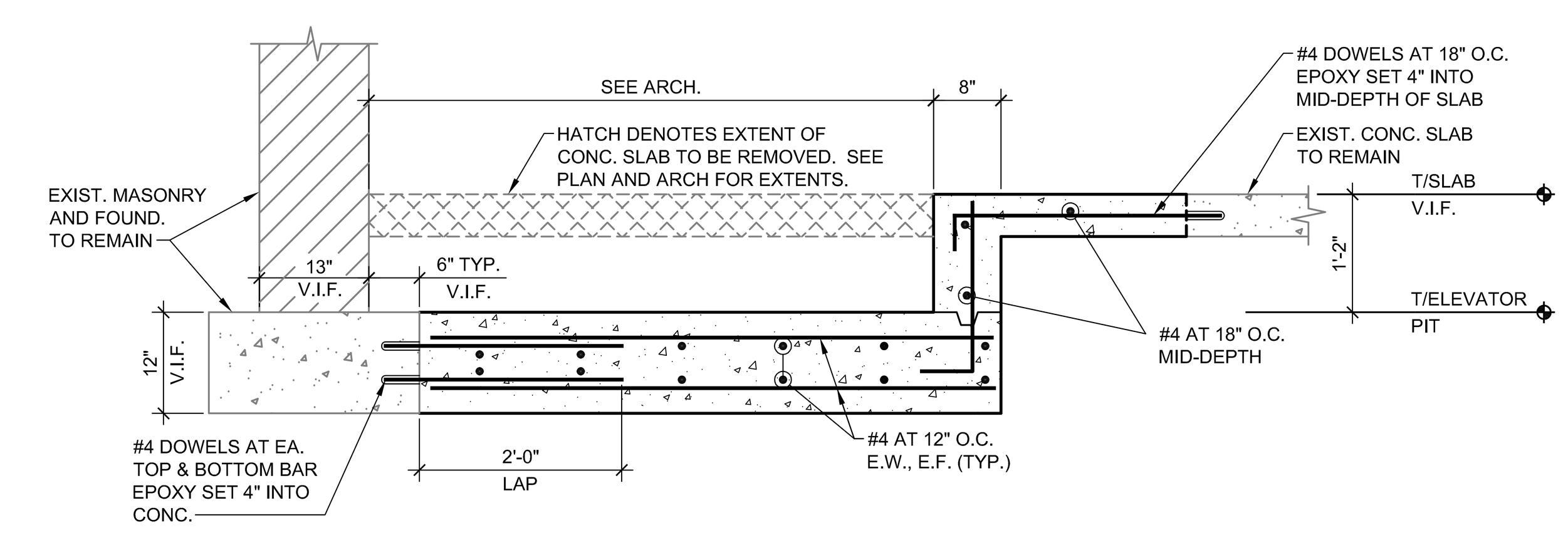
PARTIAL CAFETERIA LIFT FIRST FLOOR PLAN

SCALE: 1/4"=1'-0"



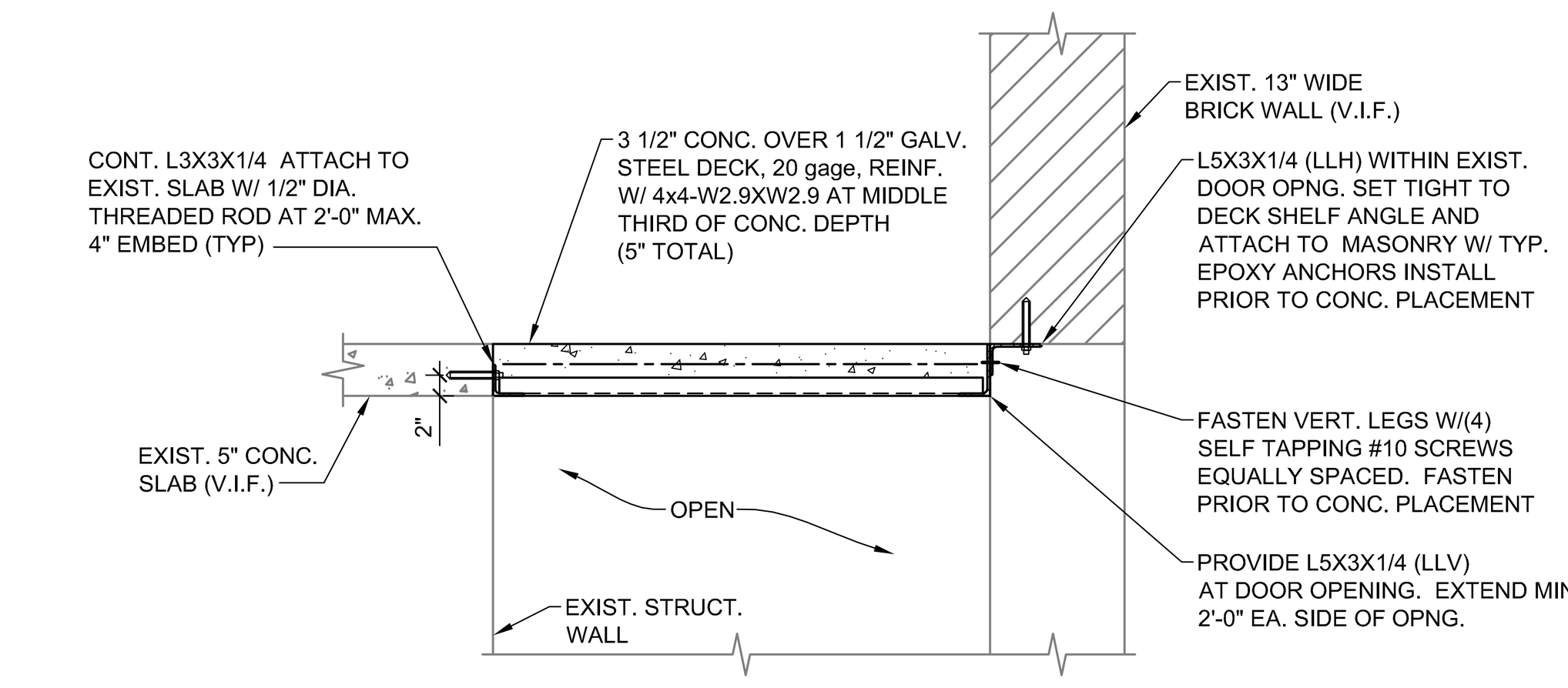
PARTIAL GYMNASIUM LIFT PLAN

SCALE: 1/4"=1'-0"



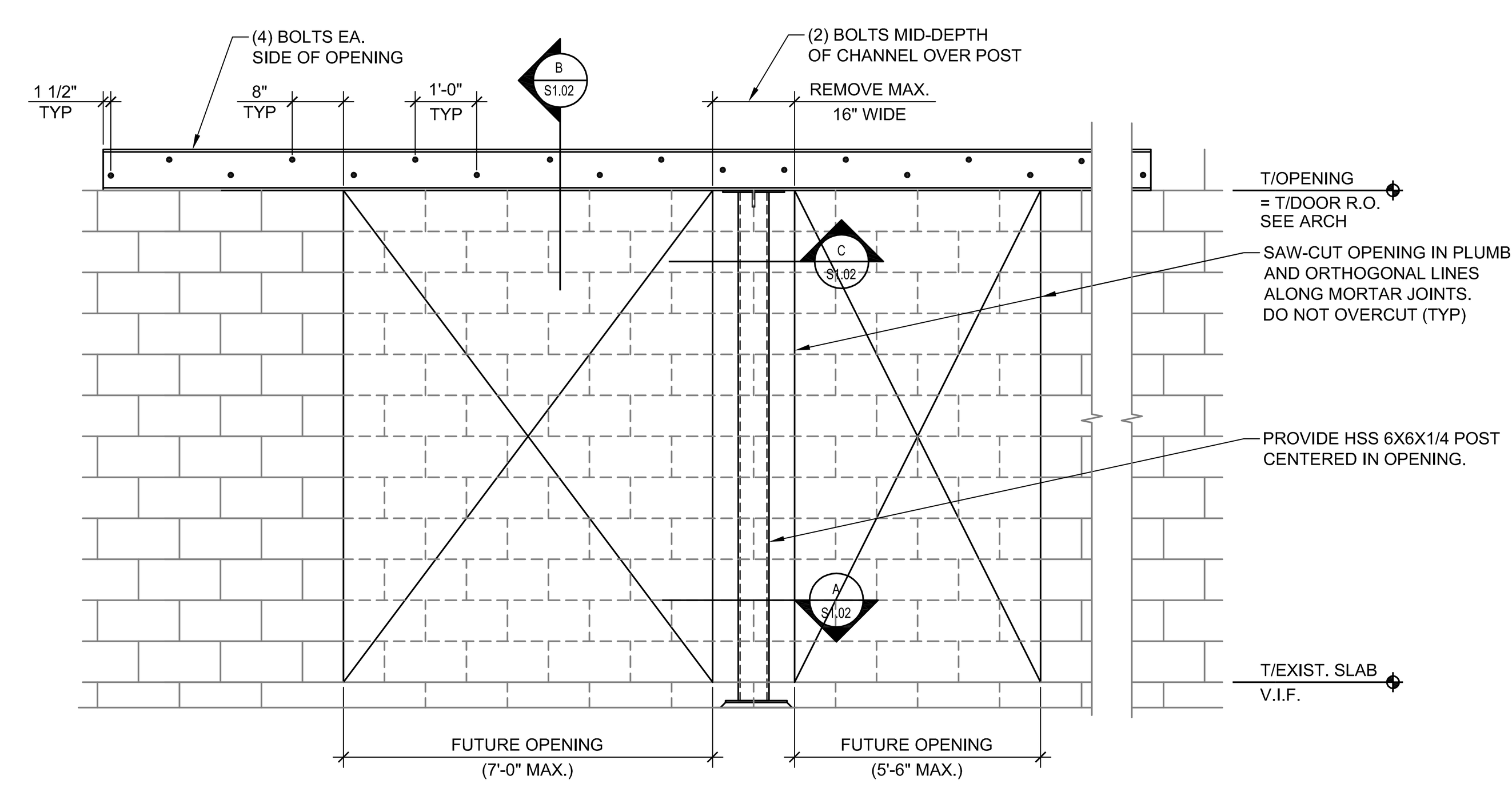
SECTION 1 / S1.02

3/4"=1'-0"



SECTION 2 / S1.02

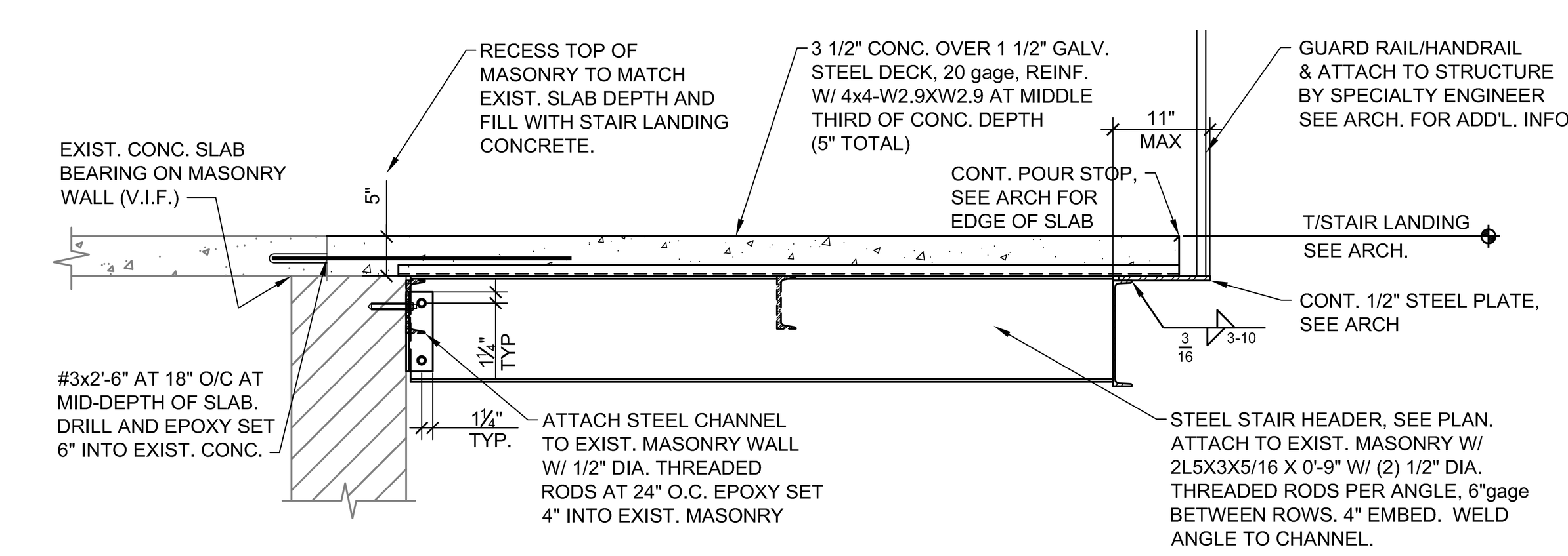
3/4"=1'-0"



ELEVATION 3 / S1.02

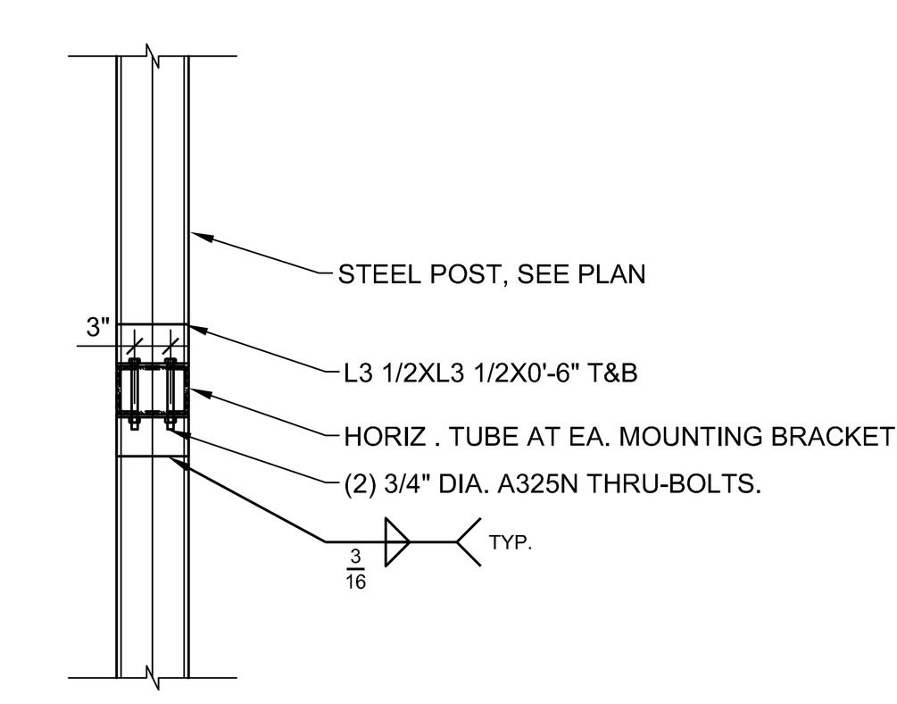
1/2"=1'-0"

NOTE:
FUTURE OPENINGS MAY BE SAW-CUT ONLY AFTER THE STRUCTURE DEPICTED ABOVE IS COMPLETE AND MATERIALS HAVE CURED.



SECTION 4 / S1.02

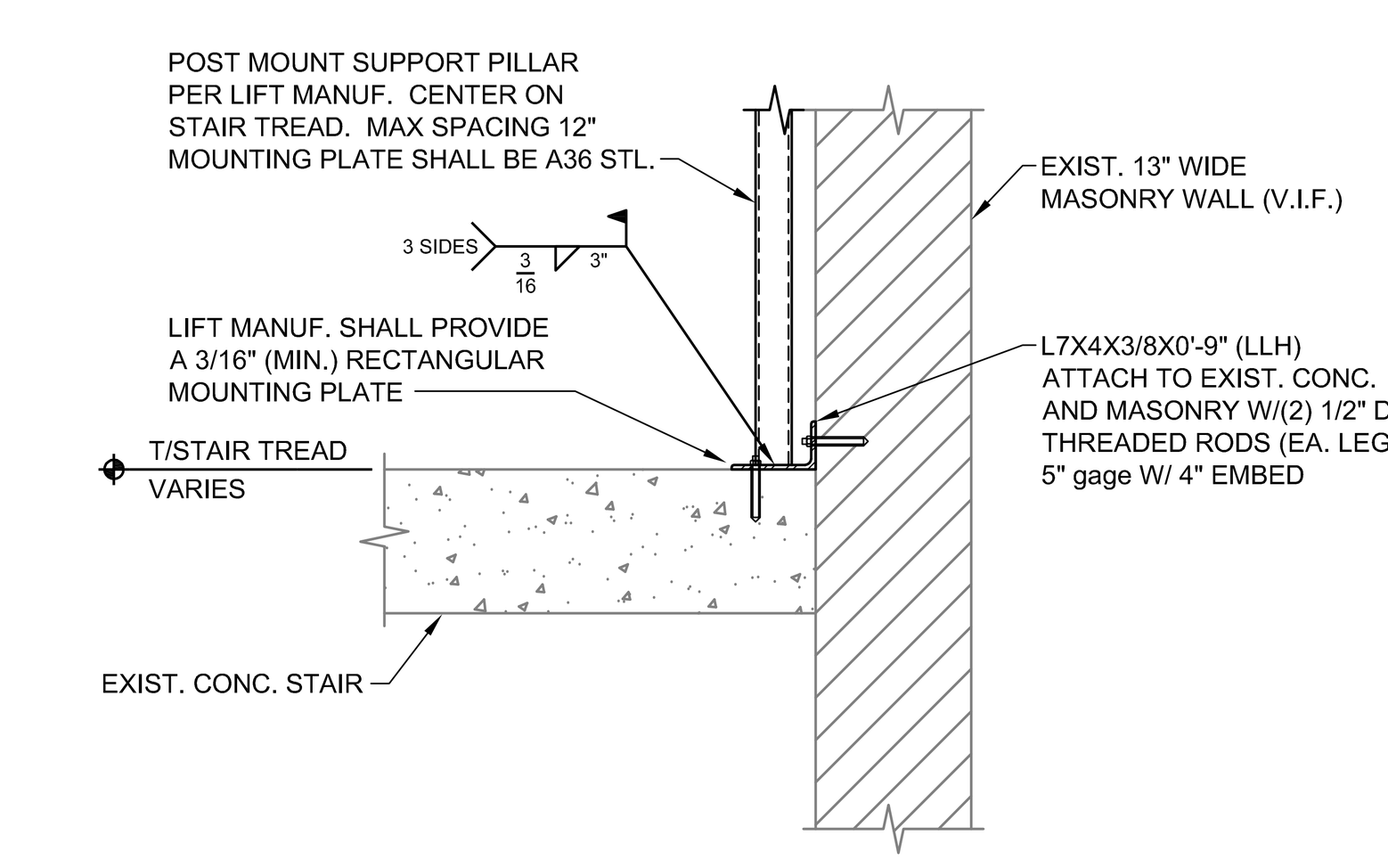
3/4"=1'-0"



SECTION 5 / S1.02

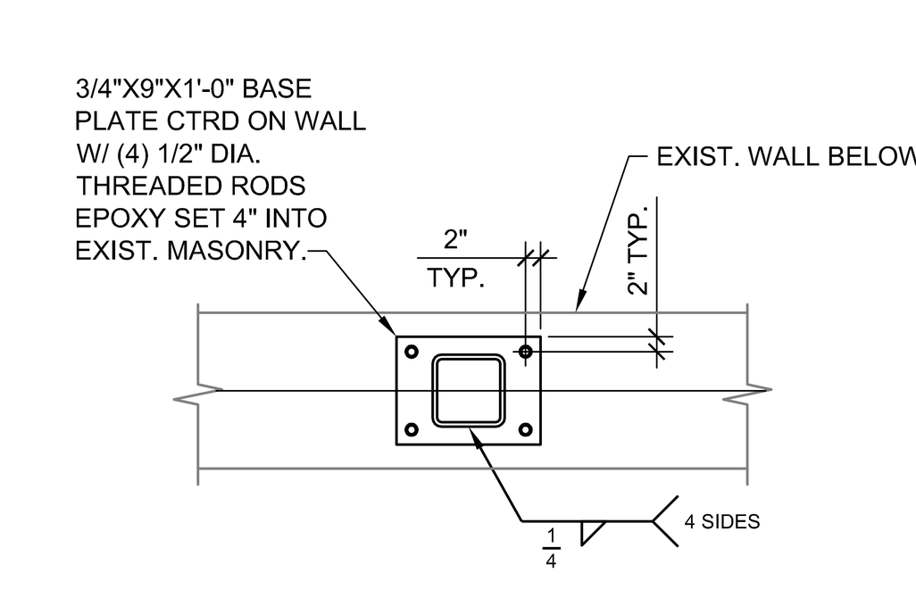
3/4"=1'-0"

NOTE:
AT (E) MASONRY WALL, PROVIDE (2) 1/2" DIA A36 THREADED RODS, 3 1/2" gage, WITH 4" EMBED, IN LIEU OF WELDING WHERE SHOWN.



SECTION 6 / S1.02

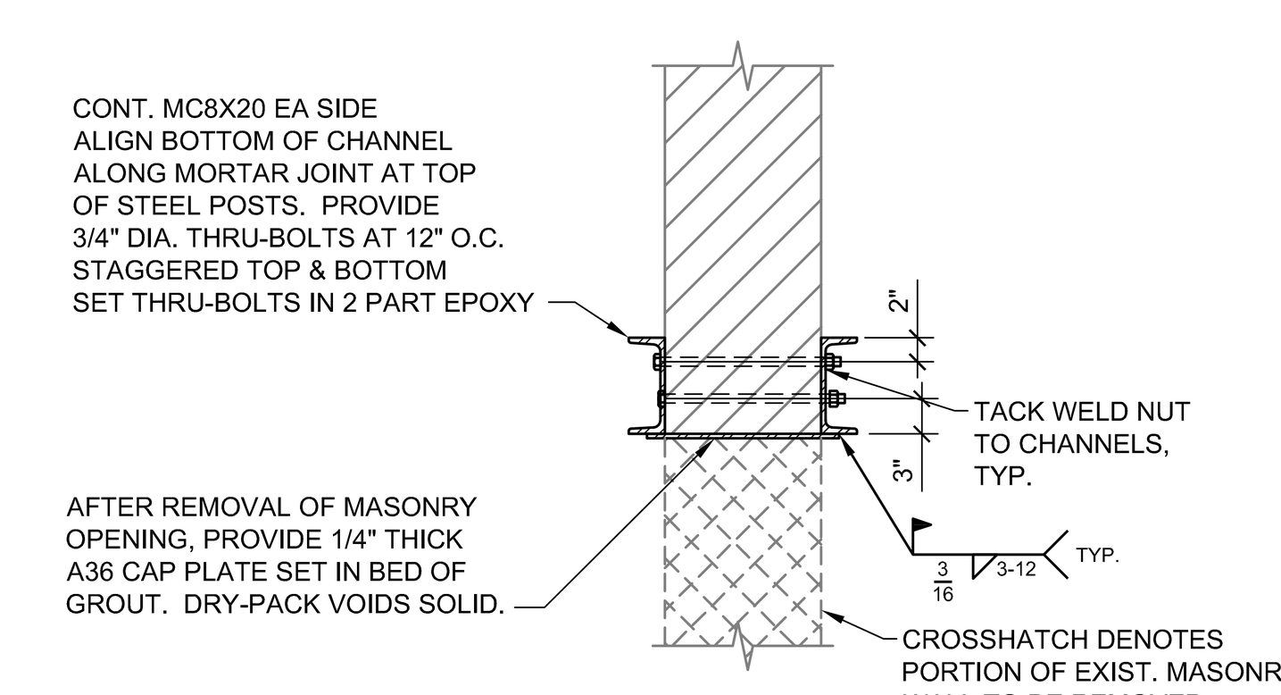
3/4"=1'-0"



NOTE: DRY-PACK VOIDS SOLID AND LEVEL WITH N.S. GROUT FOR UNIFORM BEARING

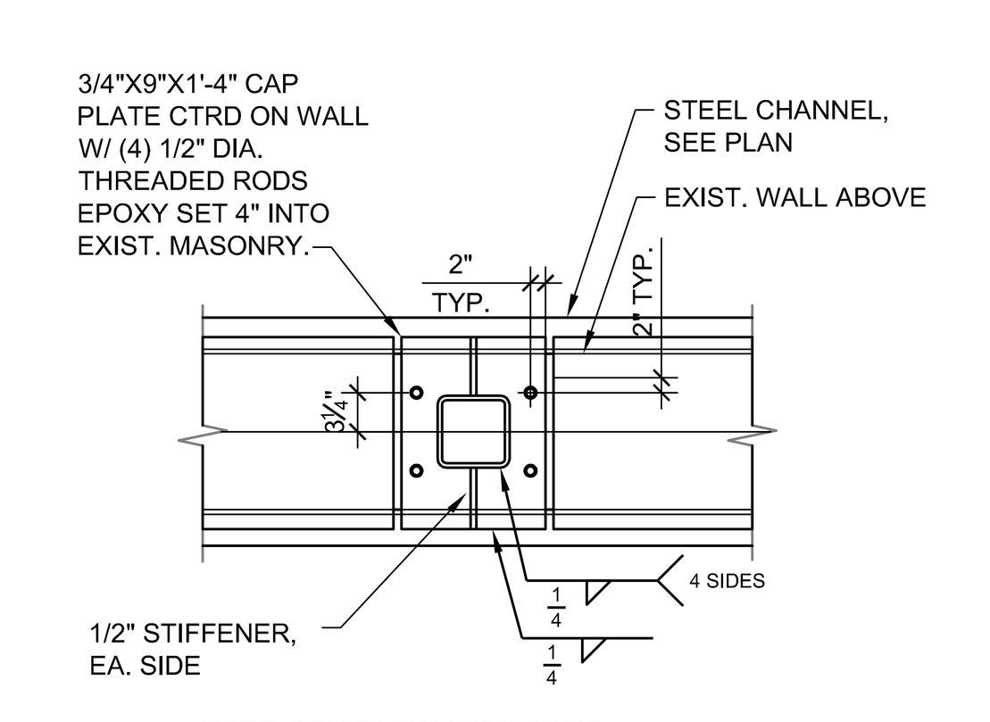
DETAIL A / S1.02

3/4"=1'-0"



DETAIL B / S1.02

3/4"=1'-0"



NOTE: DRY-PACK VOIDS SOLID FOR UNIFORM BEARING

DETAIL C / S1.02

3/4"=1'-0"

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PARK VIEW ELEMENTARY SCHOOL
PHASE 1 Modernization

PREPARED FOR
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DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE
PARTIAL PLANS & SECTIONS

DISCIPLINE STR	DRAWING NUMBER
SCALE AS NOTED	S1.02
DATE OCTOBER 3, 2014	
DRAWN BY GB	
CHECKED BY SHW	
SORG PROJECT # 1411	

MECHANICAL REQUIREMENTS AND SPECIFICATIONS

1. ALL WORK AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, ETC., OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO: INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, WASHINGTON SUBURBAN SANITARY COMMISSION, THE LOCAL FIRE MARSHALL, UNDERWRITERS, IRI, FM, AND THE NATIONAL ELECTRICAL CODE. MODIFICATIONS REQUIRED BY THE ABOVE SAID AUTHORITIES TO BRING THE SPACE UNDER CONTRACT UP TO CODE SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO THE OWNER. WHERE CONTRACT DOCUMENT REQUIREMENTS ARE IN EXCESS OF CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY THE ABOVE AUTHORITIES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

2. EXISTING BUILDING IN WHICH THE WORK OF THIS CONTRACT IS TO TAKE PLACE IS TO REMAIN OCCUPIED AND ACCESSIBLE TO OWNER AT ALL TIMES. PROTECT THE BUILDING PREMISES AND ALL OCCUPANTS ON THE PROJECT SITE. PROVIDE AND MAINTAIN ALL NECESSARY COVERINGS, BOARDS, TEMPORARY PARTITIONS AND DOORS AS REQUIRED TO PROTECT EXISTING BUILDING AND FACILITIES. ALL AREAS OF THE BUILDING AFFECTED BY CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES CAUSED BY IMPROPER PROTECTION AND SHALL MAKE ALL NECESSARY REPLACEMENTS OR REPAIRS WITHOUT ANY ADDITIONAL COST TO THE TENANT OR THE PARTY AFFECTED. MAKE ALL ARRANGEMENTS, MAINTAIN AND PAY ALL COSTS FOR TEMPORARY WATER, PLUMBING, POWER, LIGHTING, AND HEATING DIMMER SWITCHES. OR VENTILATION AS REQUIRED TO PROPERLY CONDUCT THE WORK OF THIS CONTRACT AND MAINTAIN SERVICE TO BUILDING. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FOR THE ENTIRE LENGTH OF THIS CONTRACT ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.

3. THIS WORK IS A REMODEL. VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ON THE DRAWINGS AT THE JOB SITE PRIOR TO SUBMITTAL OF PROPOSAL FOR THE WORK OF THIS CONTRACT. REPORT ANY AND ALL DISCREPANCIES TO THE ENGINEER PRIOR TO SUBMISSION OF PROPOSAL. BID SUBMISSION SHALL INCLUDE COST OF REPLACEMENT, REPAIR, RELOCATION OR REMOVAL OF EXISTING MEP ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BEAR ALL COSTS TO COMPLETE THE WORK AS INTENDED ON THE CONTRACT DOCUMENTS. ALL HOISTING CHARGES, IF ANY, SHALL BE INCLUDED IN THE WORK OF THIS CONTRACT. ALL UNUSED EQUIPMENT SERVING THIS LEASE AREA SHALL BE REMOVED AND RETURNED TO THE OWNER'S STOCK. SOME WORK SHOWN MAY REQUIRE PREMIUM TIME TO AVOID DISRUPTION OF OTHER ACTIVITIES AND MEP SERVICES. CONTRACTOR SHALL CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER AND INCLUDE THE COST IN HIS BID WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE OWNER. PROPOSAL. THE CONTRACTOR, BY SUBMITTING HIS BID PROPOSAL AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCEPTED. ALL EXCEPTIONS SHALL BE PROVIDED IN WRITING TO THE ARCHITECT AND ENGINEER.

4. EXISTING MEP EQUIPMENT TO REMAIN OR BE REUSED OR RELOCATED (LIGHTING FIXTURES, EXHAUST FANS, VAV BOXES, SWITCHES, WIRING DEVICES, COVER PLATES, DIFFUSERS, THERMOSTATS, SINKS, ETC., AND ASSOCIATED WIRING, CONDUIT, DUCTWORK, PIPING, ETC.) WITHIN OR SERVING THE SPACE WHICH IS DAMAGED OR DOES NOT COMPLY WITH THE SPECIFICATIONS SHALL BE RESTORED TO LIKE NEW CONDITION SUBJECT TO REVIEW BY THE ARCHITECT AND ENGINEER, OR SHALL BE REPLACED WITH NEW MATERIALS MEETING THE BETWEEN FERROUS AND NON-FERROUS PIPING. SPECIFICATION REQUIREMENTS.

5. THE TERM "APPROVED EQUAL," "EQUAL TO," "EQUIVALENT," OR OTHER QUALIFYING TERMS INDICATE THAT ACCEPTANCE IS BASED STRICTLY ON REVIEW AND APPROVAL BY THE ENGINEER.

6. CONTRACTOR SHALL COORDINATE, PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR THEIR APPROVAL. SHOP DRAWINGS TO BE SUBMITTED INCLUDE: SHEETMETAL, DAMPERS, AND ALL EQUIPMENT.

7. A SET OF MEP RECORD/COORDINATION DRAWINGS SHALL BE MAINTAINED IN THE GENERAL CONTRACTORS OFFICE AT THE JOB SITE. ACTUAL LOCATIONS OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC., AND ALL DEVIATIONS OF THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE MARKED ON THE RECORD/COORDINATION DRAWINGS. EACH TRADE SHALL REVIEW THE COORDINATION DRAWINGS AND RESOLVE ANY POTENTIAL CONFLICTS WITH OTHER TRADES PRIOR TO INSTALLING ANY PORTION OF THEIR WORK. CONTRACTOR SHALL NOT CORE DRILL, OR CUT CONCRETE SLABS FOR ANY REASON WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE OWNER.

8. EXISTING HVAC ELEMENTS & DUCTWORK HAVE BEEN SHOWN DASHED TO INDICATE THEIR APPROXIMATE LOCATION. NEW DUCTWORK, EQUIPMENT, DIFFUSERS, GRILLES, ETC., ARE SHOWN WITH HEAVY LINES.

9. PROVIDE ALL APPLICABLE MANUFACTURER'S PRODUCTS GUARANTEES, WARRANTIES; AND SUBMIT 4 COPIES OF OPERATION AND MAINTENANCE DATA OF EACH ITEM OF EQUIPMENT BOUND IN THREE RING LOOSE LEAF BINDERS TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK.

10. THE CONTRACTOR IS RESPONSIBLE, AT HIS OWN COST, FOR WAREHOUSING OF ALL MATERIALS TO BE INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, PROTECTING OWNER FURNISHED ITEMS AND SHALL PROVIDE AND MAINTAIN LOCKED STORAGE ROOMS AT BUILDING PREMISES WHEN REQUIRED.

11. WORK SHALL BE EXECUTED IN A GOOD WORKMANLIKE MANNER USING MECHANICS SKILLED IN THEIR RESPECTIVE TRADES AND SHALL INCLUDE ALL LABOR AND MATERIALS ESSENTIAL TO PROVIDE COMPLETED FUNCTIONING SYSTEMS DESCRIBED. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR COORDINATING THE WORK UNDER THIS CONTRACT. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST ALL CLAIMS AND JUDGMENTS ARISING OUT OF THE CONTRACTOR'S PERFORMANCE OF THE WORK OF THIS CONTRACT.

12. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE APPROPRIATE AUTHORITY, FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.

13. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION AT THE END OF EACH WORKING DAY.

14. COORDINATE WITH THE OWNER/ENGINEER FOR ITEMS FURNISHED AND/OR INSTALLED BY OTHERS TO DETERMINE EXACT LOCATIONS AND PROPER FITTING; AND TO SCHEDULE THEM INTO THE WORK.

15. WHEREVER FIRE RATED PARTITIONS ARE PENETRATED FOR WIRE, DUCT, OR PIPE PASSAGE, SEAL PASSAGES WITH CODE APPROVED, LABORATORY TESTED AND LABELED SEALANT OF FIRE RESISTANCE RATING NOT LESS THAN THAT OF PENETRATED ASSEMBLY THAT WILL PREVENT PASSAGE OF FIRE AND SMOKE.

16. ALL NEW RECTANGULAR DUCTWORK SHALL BE 2" W.G CONSTRUCTION, CONSTRUCTED OF LOCK FORMING GALVANIZED STEEL IN ACCORDANCE WITH THE "DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS, " PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INC. (SMACNA)." ALL DUCTWORK SHALL BE SEALED USING IRON GRIP DUCT SEALANT. CONTRACTOR SHALL USE APPROPRIATE SYSTEM FOR OUTDOOR OR INDOOR APPLICATION. ALL DUCT REGARDLESS OF PRESSURE CLASS SHALL BE SEALED PER SMACNA CLASS "A".

17. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM SO AS TO INSURE QUIET OPERATION. NO VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE BUILDING, STRUCTURE OR OCCUPIED AREAS. THE DECISION OF THE ENGINEER AS TO THE QUIETNESS OF THE SYSTEM AND EQUIPMENT SHALL BE FINAL. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO CORRECT OR REPLACE ANY NOISY SYSTEM OR EQUIPMENT AS REQUIRED.

18. CONNECTIONS BETWEEN DISSIMILAR PIPING MATERIALS SHALL BE MADE WITH SUITABLE DIELECTRIC INSULATING UNIONS. ISOLATE COPPER PIPING FROM DISSIMILAR METALS, SUCH AS METAL STUDS AND VENT PIPING.

19. PROVIDE VALVES AND UNIONS WHERE NEEDED TO PERMIT DISCONNECTIONS OF EACH PIECE OF EQUIPMENT FOR REPAIRS.

20. HVAC WATER PIPING 2 INCHES AND SMALLER SHALL BE TYPE "L" COPPER TUBING, HARD DRAWN, WITH CAST BRASS OR WROUGHT COPPER FITTINGS MADE WITH 95-5 TYPE SOLDER. INSULATE PIPING WITH 1 INCH THICK FIBERGLASS INSULATION WITH STANDARD VAPOR BARRIER JACKET OR WITH 1 INCH THICK FLEXIBLE UNICELLULAR ("ARMAFLEX"). ALL CONDENSATE DRAINS SHALL BE TRAPPED TO A DEPTH EQUAL TO 4 TIMES THE TOTAL STATIC PRESSURE OF THE SYSTEM.

21. ALL PRODUCTS LOCATED WITHIN PLENUM AREAS, INCLUDING BUT NOT LIMITED TO INSULATION AND ADHESIVE SYSTEMS, SHALL HAVE A COMPOSITE FIRE HAZARD RATING NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE DEVELOPED AS DETERMINED BY THE APPLICABLE UL OR ASTM STANDARD.

22. SUPPORT ALL PIPING FROM STRUCTURE WITH UL LISTED HANGERS AND SUPPORTS SUITABLE FOR THE INTENDED INSTALLATION. DESIGN, SELECTION, SPACING, AND APPLICATION OF HANGERS AND SUPPORTS SHALL COMPLY WITH ANSI B31.1 AND MSS SP-69. ANY PIPING ROUTING ON FLOOR BELOW REQUIRES APPROVAL OF CHIEF ENGINEER PRIOR TO INSTALLATION.

23. ALL PIPING SYSTEMS, VALVES, DAMPERS AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED. ALL DAMPERS AND VALVES SHALL HAVE THEIR NORMAL (IN OPERATION) POSITION IDENTIFIED, SUCH AS "NORMALLY OPEN" OR "NORMALLY CLOSED".

24. ALL PACKAGED EQUIPMENT SHALL BE INDEPENDENTLY THIRD PARTY LABELED AS A SYSTEM FOR ITS INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORDANCE WITH OSHA FEDERAL REGULATIONS 29CFR1910.303 AND .399, AS WELL AS NFPA PAMPHLET NO. 70, AND THE NATIONAL ELECTRICAL CODE (NEC), ARTICLE 90-7.

25. REFRIGERANT PIPING SHALL BE REFRIGERATION GRADE (SEALED) TYPE "L" COPPER WITH WROUGHT COPPER, SOLDER JOINT FITTINGS MADE WITH SILVER-COPPER-CDMIUM-ZINC BRAZING ALLOY (45-15-24-16) TYPE SOLDER. BALL VALVES SHALL BE TWO PIECE, CONVENTIONAL PORT, FORGED BRASS BODY, 500 PSIG WORKING PRESSURE, AS MANUFACTURED BY HENRY VALVE COMPANY. CHARGING AND PURGE VALVES SHALL BE HENRY VALVE COMPANY TYPE 643. MOISTURE LINE INDICATORS SHALL BE HENRY VALVE COMPANY MODEL 3003. FILTER-DRIERS SHALL BE HENRY VALVE COMPANY MODEL 87-C CARTRIDGE WITH TYPE 77, 78, OR 79 UNIT SHELL AS APPLICABLE. PRESSURE TEST ALL PIPING, THEN EVACUATE AND CHARGE THE SYSTEM. INSULATE ALL PIPING, VALVES, FITTINGS, AND FLEXIBLE CONNECTIONS WITH 1 INCH THICK FLEXIBLE FOAMED PLASTIC INSULATION.

26. INSULATE FITTINGS, JOINTS, AND VALVES WITH INSULATION OF LIKE MATERIAL AND THICKNESS AS ADJOINING PIPE. FINISH WITH GLASS CLOTH OR PVC FITTING COVERS.

27. SUPPORT ALL PIPING FROM STRUCTURE WITH UL LISTED HANGERS AND SUPPORTS SUITABLE FOR THE INTENDED INSTALLATION. DESIGN, SELECTION, SPACING, AND APPLICATION OF HANGERS AND SUPPORTS SHALL COMPLY WITH ANSI B31.1 AND MSS SP-69.

28. CLEAN ALL MECHANICAL EQUIPMENT AND DUCTWORK OF ALL CONSTRUCTION DUST AT PROJECT COMPLETION. REPLACE ALL FILTERS PRIOR TO AIR BALANCING. PROVIDE ONE SPARE SET OF FILTERS FOR EACH PIECE OF EQUIPMENT TO THE OWNER.

29. CONTRACTOR SHALL COORDINATE FINAL THERMOSTAT LOCATIONS WITH ARCHITECT. THERMOSTATS SHALL BE LOCATED 48" ABOVE FINISHED FLOOR AND SHALL NOT BE LOCATED DIRECTLY ADJACENT OR ABOVE ANY LIGHTING DIMMER SWITCHES.

30. CONTRACTOR SHALL COMPLY WITH ALL OTHER ADDITIONAL BASE BUILDING RULES AND REGULATIONS AS PROVIDED BY THE OWNER.

31. AS BUILT DRAWINGS TO BE GIVEN TO THE ARCHITECT OF RECORD FOR REVIEW AND A CLEAN AS BUILT PDF AND HARD COPY SHALL BE DELIVERED TO JBG 15 DAYS AFTER FINAL INSPECTIONS HAVE BEEN PERFORMED. GENERAL CONTRACTOR SHALL COVER THE RELATED COSTS.

32. ALL PIPING SHALL RUN CONCEALED ABOVE CEILING OR IN WALL CHASE, UNLESS OTHERWISE NOTED. EXPOSED PIPING SHALL BE 3/4 INCH MINIMUM FROM ANY WALL SURFACE. EXCEPT WHERE OTHERWISE INDICATED ON THE DRAWINGS, PIPING IS SHOWN ON THE FLOOR WHERE IT ACTUALLY OCCURS IN THE BUILDING.

33. CONTRACTOR SHALL VERIFY ALL POINTS OF CONNECTION BEFORE COMMENCING WORK. CONTRACTOR SHALL COORDINATE WORK WITH EXISTING WORK AND OTHER TRADES. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS, DEBRIS, AND RUBBISH FROM SITE AND LEGALLY DISPOSE OF IT. ALL UNUSED EQUIPMENT SERVING THIS AREA SHALL BE REMOVED AND RETURNED TO THE OWNER.

34. CONTRACTOR SHALL CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER AND INCLUDE THE COST IN HIS BID PROPOSAL. THE CONTRACTOR, BY SUBMITTING HIS BID PROPOSAL AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCEPTED. ALL EXCEPTIONS SHALL BE PROVIDED IN WRITING TO THE ARCHITECT AND ENGINEER.

35. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST ALL CLAIMS AND JUDGEMENTS ARISING OUT OF THE CONTRACTORS PERFORMANCE OF THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK, WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT, WITHOUT WRITTEN AUTHORIZATION FROM THE APPROPRIATE AUTHORITY. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.

36. ALL CUTTING, DRILLING, AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING SYSTEMS SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED, OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND APPROVAL PRIOR.

37. ALL NEW PUMP DISCHARGE PIPING SHALL BE TYPE L HARD DRAWN SEAMLESS COPPER WATER TUBE. COPPER TUBE FITTINGS SHALL BE WROUGHT COPPER JOINT FITTINGS CONFORMING TO ANSI 316.22. SOLDERED COPPER JOINTS SHALL BE SOLDERED WITH LEAD FREE ASTM B32 GRADE 95T TIN-ANTIMONY SOLDER.

38. PROVIDE ACCESS DOORS AND/OR PANELS NECESSARY TO SERVICE ALL EQUIPMENT AND ACCESSORIES THAT REQUIRE SERVICE AND/OR MAINTENANCE AND ARE LOCATED ABOVE INACCESSIBLE CEILINGS OR WALLS. ACCESS DOOR SIZES SHALL PERMIT FULL ACCESSIBILITY TO EQUIPMENT AND/OR ACCESSORIES. ACCESS DOORS SHALL MATCH THE WALL OR CEILING RATING AT THE LOCATION WHERE THEY ARE PLACED.

39. FITTINGS, VALVES, AND FLANGES SHALL BE INSULATED WITH THE SAME MATERIALS AND OF THE SAME THICKNESS AS THE ADJOINING PIPE.

40. PERFORM A HYDROSTATIC PRESSURE TEST ON ALL PIPING, AT THE PIPING SYSTEM WORKING PRESSURE, FOR A MINIMUM PERIOD OF 24-HOURS. REPAIR ANY LEAKS AND RETEST TO DEMONSTRATE TIGHTNESS. STOP-LEAK COMPOUNDS WILL NOT BE ALLOWED. ALL PIPING FOR PRESSURIZED WATER SYSTEMS SHALL HAVE A MINIMUM PRESSURE RATING OF 150 PSI.

41. ALL NEW SANITARY, SOIL, WASTE, AND VENT SHALL BE SERVICE WEIGHT CAST IRON, BELL AND SPIGOT, PIPE AND FITTINGS, ANSI A.112.5.1 AS MANUFACTURED BY TYLER PIPE AND FOUNDRY CO., U.S. PIPE AND FOUNDRY CO., CENTRAL FOUNDRY OR APPROVED EQUAL. TYLER "TY-SEAL" OR APPROVED EQUAL, NEOPRENE POSITIVE SEAL ELASTOMERIC COMPRESSION TYPE GASKETS SHALL BE USED AT ALL JOINTS. AS AN OPTION, ALL NEW SANITARY, SOIL, WASTE, AND VENT PIPING 4 INCHES AND SMALLER MAY USE HUBLESS SERVICE WEIGHT CAST IRON PIPE, FITTINGS AND JOINTS WITH TYLER "NO-HUB" STAINLESS STEEL CONNECTORS. IN ADDITION, ALL VENT PIPING MAY BE DWV COPPER PIPE AND FITTINGS WITH SOLDERED JOINTS. GASKETS, JOINTS, CONNECTORS, SPECIALTIES AND PIPE SHALL BE MANUFACTURED AND PROVIDED BY THE SAME MANUFACTURER. WASTE LINES FROM DRINKING WATER FOUNTAINS SHALL BE INSULATED WITH 1/2 INCH THICK HEAVY DUTY FIBERGLASS MATERIAL WITH ALL PURPOSE NONCOMBUSTIBLE VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MAXIMUM THERMAL CONDUCTIVITY (K) OF 0.23 BTU*IN/HR*FT2*°F AT 75°F. ADHESIVE SYSTEMS THAT EMPLOY RELEASE PAPER WILL NOT BE ACCEPTABLE. ALL DRAINAGE PIPE SHALL BE SUPPORTED DIRECTLY ON EACH SIDE OF A JOINT. ALL PIPING SUPPORTS AND RESTRAINTS SHALL BE IN STRICT ACCORDANCE WITH THE DRAINAGE PIPE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION GUIDELINES.

42. EXCEPT WHERE OTHERWISE INDICATED, HORIZONTAL SANITARY, SEWAGE AND WASTE PIPING SHALL SLOPE AT 1/4 INCH PER FOOT FOR PIPES 2 INCHES AND SMALLER, PIPES 3 INCHES AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT. ALL VERTICAL SANITARY SEWER AND STORM WATER PIPING, WHICH TURN 90° AFTER PASSING THROUGH A FLOOR, SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE.

43. CLEAN-OUTS SHALL BE PROVIDED IN PIPING AT EACH CHANGE IN DIRECTION, IN ALL HORIZONTAL STRAIGHT RUNS MORE THAN 50 FEET LONG, AND AT ALL OTHER LOCATIONS AS NOTED ON THE DRAWINGS. ALL CLEAN-OUTS SHALL BE THE SAME SIZE AS THE PIPE DIAMETER UP TO AND INCLUDING PIPE 4 INCHES IN DIAMETER. FOUR INCH CLEAN-OUTS SHALL BE USED FOR ALL PIPE LARGER THAN 4 INCHES, UNLESS NOTED OTHERWISE. ALL CLEAN-OUT LOCATIONS SHALL BE NO MORE THAN 5 FEET ABOVE THE BASE OF THE HORIZONTAL OFFSET AND BE APPROVED BY THE ARCHITECT. FOR CARPETED AREAS, PROVIDE A PERMANENT IDENTIFYING MARK IN THE CARPET DIRECTLY ABOVE THE CLEAN-OUT. THE CLEAN-OUT SHALL HAVE A SMOOTH POLISHED BRONZE FINISH WITH THE LETTERS "C.O." CAST IN THE COVER. FOR WALLS, PROVIDE AN ACCESS PANEL WITH CLEARANCE FOR RODDING. THE FLOOR CLEAN-OUTS SHALL BE ZURN MODEL ZN-1400-T OR APPROVED EQUAL WITH BRONZE PLUG, SQUARE NICKEL BRONZE FRAME AND COVER. THE WALL CLEAN-OUTS SHALL BE ZURN MODEL ZN-1443-BP OR APPROVED EQUAL WITH BRONZE PLUG AND 7 INCHES X 7 INCHES NICKEL BRONZE COVER. NO SANITARY, SOIL OR WASTE PIPE SHALL EXTEND GREATER THAN 2'-0" TO A DEAD-END.

44. ALL PIPING SYSTEMS, VALVES, AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED. ALL VALVES SHALL HAVE THEIR NORMAL (IN OPERATION) POSITION IDENTIFIED, SUCH AS "NORMALLY OPEN" OR "NORMALLY CLOSED".

45. ALL PACKAGED EQUIPMENT SHALL BE INDEPENDENTLY THIRD PARTY LABELED AS A SYSTEM FOR ITS INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORDANCE WITH OSHA FEDERAL REGULATIONS 29CFR1910.303 AND .399, AS WELL AS NFPA PAMPHLET NO. 70, NATIONAL ELECTRIC CODE (NEC), ARTICLE 90-7.

46. THE CONTRACTOR SHALL MAKE ALL FINAL EQUIPMENT AND FIXTURE CONNECTIONS AND PROVIDE THE NECESSARY ADAPTERS, FITTINGS, VALVES, DEVICES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE VALVES AND UNIONS WHERE NEEDED TO PERMIT DISCONNECTIONS OF EACH PIECE OF EQUIPMENT FOR REPAIRS. PLUMBING CONNECTIONS SHOWN ARE NOMINAL. VERIFY EXACT CONNECTION SIZE WITH EACH PIECE OF EQUIPMENT SUPPLIED. FOLLOW FIXTURE MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS, AND ROUGH-IN DIMENSIONS. REFER TO CONSULTANT AND ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION. COORDINATE WITH THE EQUIPMENT SUPPLIER FOR ADDITIONAL INFORMATION.

47. X-RAYING OF STRUCTURE: DO NOT CORE DRILL, PENETRATE OR CUT EXISTING CONCRETE FLOOR SLABS WITHOUT CONSULTING WITH THE BASE BUILDINGS STRUCTURAL ENGINEER OF RECORD, AND/OR A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER. DO NOT PROCEED WITH WORK WITHOUT WRITTEN PERMISSION FROM THE ABOVE PROFESSIONALS. ARRANGE MOBILIZATION AND PAYMENT FOR X-RAY EQUIPMENT, IF NECESSARY, TO INVESTIGATE ALL POTENTIAL STRUCTURAL IMPEDIMENTS. X-RAYING SHALL BE COORDINATED & APPROVED WITH THE BUILDING ENGINEER. PROVIDE A MINIMUM OF 24-48 HOUR NOTICE OF ANY X-RAYING.

PROVIDE 48 HOURS BETWEEN CORE DRILLING.

MECHANICAL LEGEND

SYMBOL	ABRV.	DESCRIPTION
		EXISTING EQUIPMENT OR DUCTWORK TO REMAIN
		EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED
		EXISTING EQUIPMENT OR DUCTWORK TO REMAIN
		NEW EQUIPMENT OR DUCTWORK
		NEW EQUIPMENT OR DUCTWORK
		EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED
		NEW RECTANGULAR DUCTWORK WITH 1" INTERNAL SOUNDLINING.
		90° ELBOW WITH TURNING VANES
		90° RADIUS ELBOW
		CONNECTION POINT, NEW TO EXISTING
		DISCONNECTION POINT FROM EXISTING
1		DRAWING NOTE
225		SUPPLY AIR LINEAR SLOT DIFFUSER (LSD), CFM AS INDICATED
		RETURN AIR LINEAR SLOT DIFFUSER
		24/24 PERFORATED FACE SUPPLY AIR GRILLE
		24/24 PERFORATED FACE RETURN AIR GRILLE
		EXHAUST FAN
		SPIN TAP WITH VOLUME CONTROL DAMPER
	V.C.D.	VOLUME CONTROL DAMPER
R	R	RELOCATE EQUIPMENT
T		THERMOSTAT
T		EXISTING THERMOSTAT
M		MOTORIZED DAMPER
U		1" UNDERCUT DOOR
L		LOUVERED DOOR
F.D.	F.D.	FIRE DAMPER
S.D.	S.D.	SMOKE DAMPER
	UNO	UNLESS NOTED OTHERWISE
	(E)	EXISTING
	ER	EXISTING TO REMAIN
	SA	SUPPLY AIR
	RA	RETURN AIR
	TAF-1	TRANSFER AIR FAN DESIGNATION
	R	RELOCATE
	N	NEW
	OA	OUTSIDE AIR
	VAV	VAV BOX
	UNO	UNLESS NOTED OTHERWISE
	FPVAV	FAN POWERED VAV BOX

PLUMBING LEGEND

SYMBOL	ABRV.	DESCRIPTION
	SAN., W.	SANITARY PIPING
ST	ST	STORM DRAIN
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
F	F	FIRE PROTECTION PIPING
SP	SP	SPRINKLER PIPING
(E)	E	EXISTING PIPING (LINE TYPE INDICATES PIPE TYPE UNO.)
(E)	E	EXISTING PIPE TO BE REMOVED
		PIPE UP
		PIPE DOWN
		PIPE TEE DOWN
	CO	CLEAN OUT, FLOOR
	CO	CLEAN OUT, EXPOSED
		CAPPED PIPE
	BFP	BACK FLOW PREVENTER
		BALL VALVE OR SHUTOFF VALVE
		PRESSURE REDUCING VALVE
		HOT WATER RECIRC. PUMP
		FLOOR DRAIN
		CONNECT TO EXISTING
		POINT OF DEMOLITION
	FFD	FUNNEL FLOOR DRAIN
		EXISTING RISER DESIGNATION
TP	TP	TRAP PRIMER

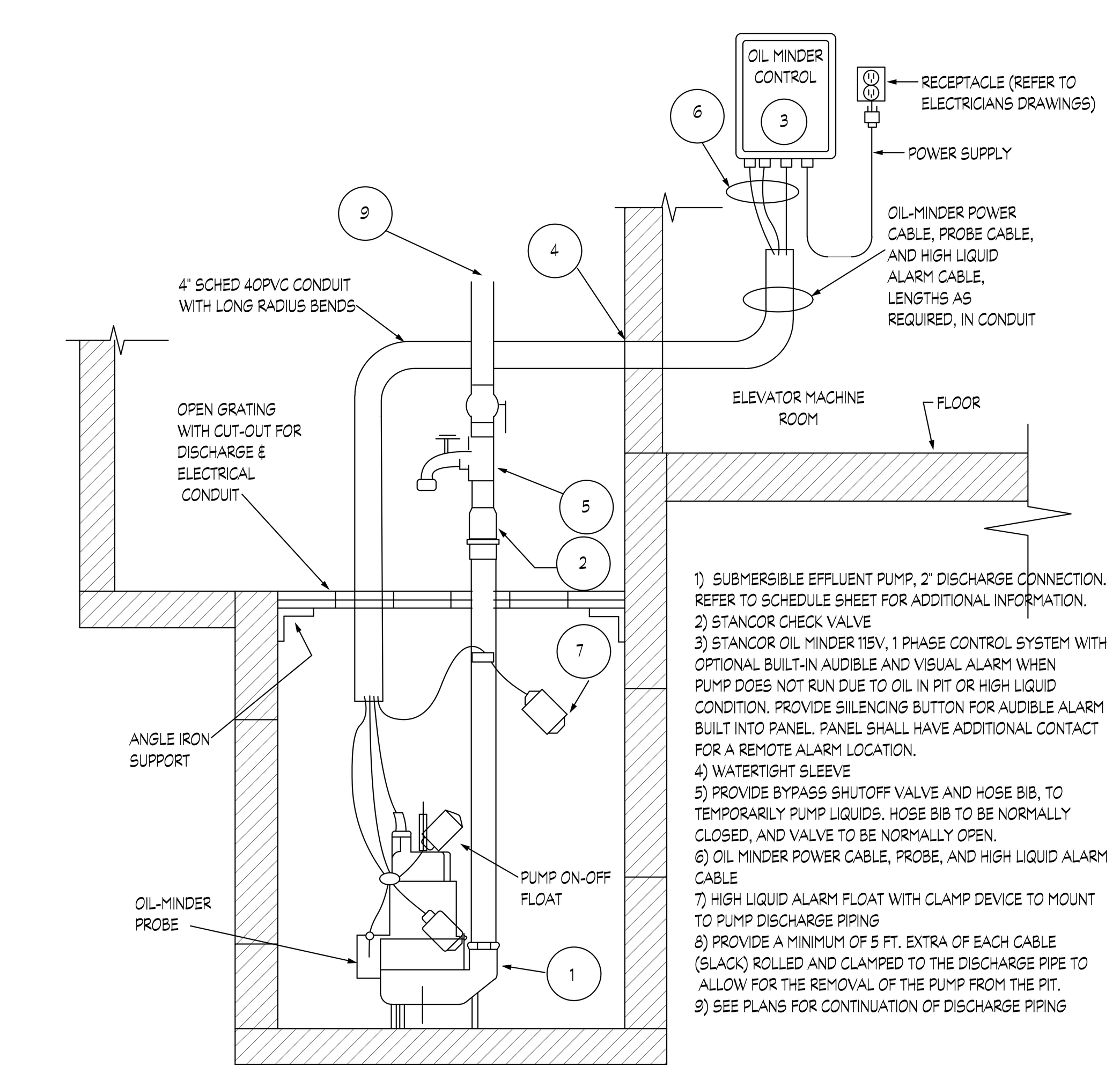
PLUMBING ABBREVIATIONS

ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
ARCH	ARCHITECT, ARCHITECTURAL
BLDG	BUILDING
BLW	BELOW
CLG	CEILING
CO	CLEAN OUT
CW	DOMESTIC COLD WATER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
ELEC	ELECTRICAL
FD	FLOOR DRAIN; FIRE DAMPER
FLR	FLOOR
FT	FOOT OR FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HZ	HERTZ
IN	INCHES
MAX	MAXIMUM
MIN	MINIMUM
MTD	MOUNTED
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.; #	NUMBER
NO.; #	NUMBER
OSD	OPEN SITE DRAIN
PLBG	PLUMBING
PRESS	PRESSURE
PSI(G)	POUNDS PER SQUARE INCH (GAGE)

SPLIT SYSTEM SCHEDULE

UNIT DES.	TYPE	SERVING	TOTAL CAPACITY MBH	E.A.T. DB/WB	INDOOR UNIT			OUTDOOR UNIT		
					CFM	BASIS OF DESIGN MITSUBISHI	NOMINAL TONS	AMBIENT AIR °F	BASIS OF DESIGN MITSUBISHI	REMARKS
DACU-1	WALL MOUNTED	LIFT MACHINE RM	12	80/67	400	PKA-A12K	2	95	PUY-A12	1 THRU 7

NOTES:
1. PROVIDE W/ LOW AMBIENT ACCESSORY AND KIT.
2. PROVIDE DISCONNECT SWITCH FOR INDOOR & OUTDOOR UNITS.
3. PROVIDE WITH CONDENSATE PUMP.
4. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED PER MANUFACTURER'S GUIDELINES AND RECOMMENDATIONS.
5. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
6. COOLING ONLY INDOOR UNIT.



1) SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION. REFER TO SCHEDULE SHEET FOR ADDITIONAL INFORMATION.
2) STANCOR CHECK VALVE
3) STANCOR OIL MINDER 115V, 1 PHASE CONTROL SYSTEM WITH OPTIONAL BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID CONDITION. PROVIDE SIILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION.
4) WATERTIGHT SLEEVE
5) PROVIDE BYPASS SHUTOFF VALVE AND HOSE BIB, TO TEMPORARILY PUMP LIQUIDS. HOSE BIB TO BE NORMALLY CLOSED, AND VALVE TO BE NORMALLY OPEN.
6) OIL MINDER POWER CABLE, PROBE, AND HIGH LIQUID ALARM CABLE
7) HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING
8) PROVIDE A MINIMUM OF 5 FT. EXTRA OF EACH CABLE (SLACK) ROLLED AND CLAMPED TO THE DISCHARGE PIPE TO ALLOW FOR THE REMOVAL OF THE PUMP FROM THE PIT.
9) SEE PLANS FOR CONTINUATION OF DISCHARGE PIPING

ELEVATOR SUMP AND PUMP DETAIL (EP-1)
NO SCALE

PUMP SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	BASIS OF DESIGN	GPM	FT OF HD	HP	RPM	NOTES
SP-1	SIMPLEX SUMP PUMP (ELEVATOR PIT)	REFER TO PLANS	STANCOR OIL MINDER MODEL AHS416	50	30	0.5	3,400	1, 2

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
2. FOR ADDITIONAL INFORMATION REFER TO PLUMBING DETAIL SHEET.

N

REVISIONS	DATE	DESCRIPTION

Allen & Shariff
DESIGN | BUILD | MANAGE
Allen & Shariff Engineering, LLC
7061 Deepage Drive
Columbia, MD 21045
Tel: 410.381.7100
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SEAL

KEY PLAN

PARK VIEW ELEMENTARY SCHOOL

PHASE 1 Modernization

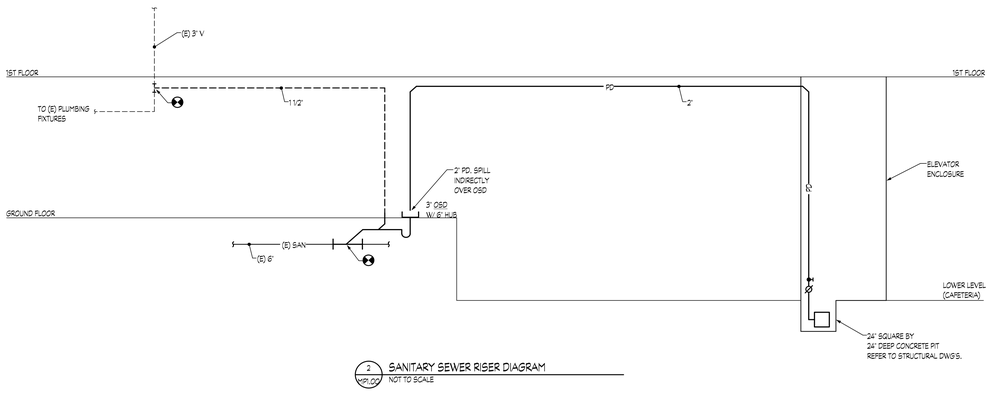
PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE

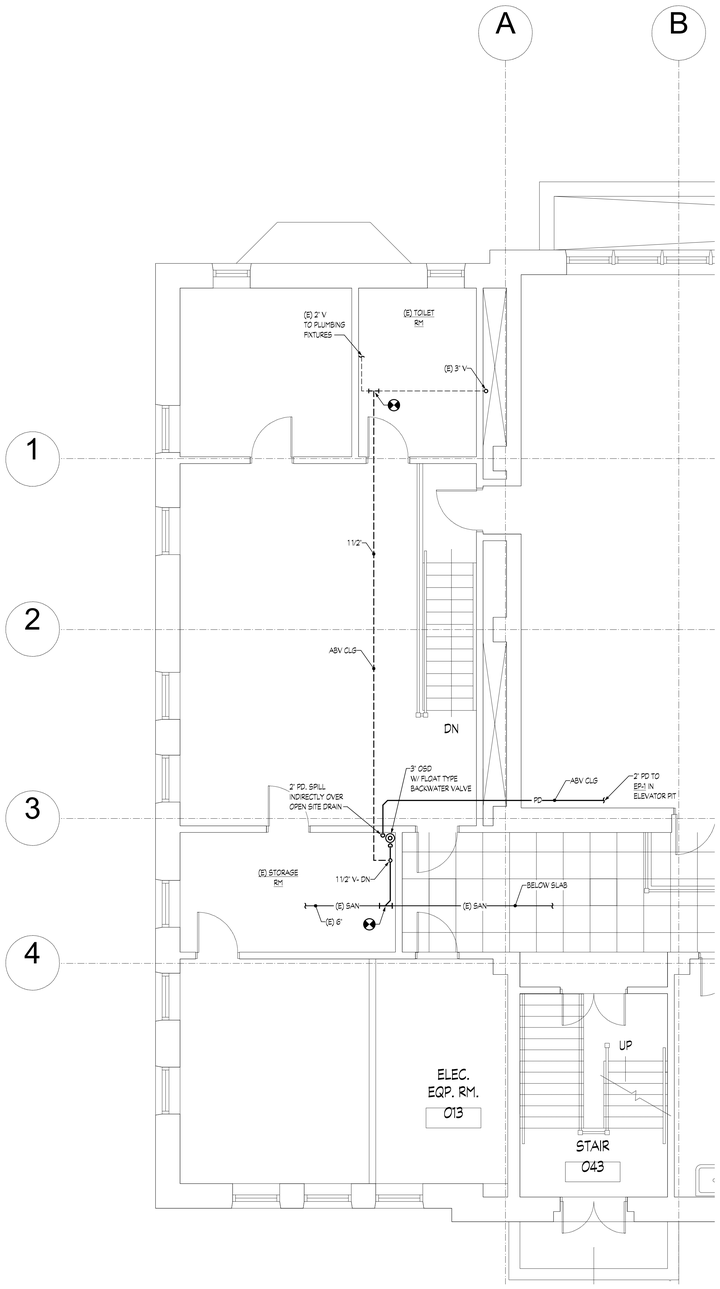
DATA SHEET
MECHANICAL/PLUMBING

DISCIPLINE	DRAWING NUMBER
SCALE	MP0.00
DATE SEPTEMBER 25, 2014	
DRAWN BY	
CHECKED BY	
SORG PROJECT # 1411	

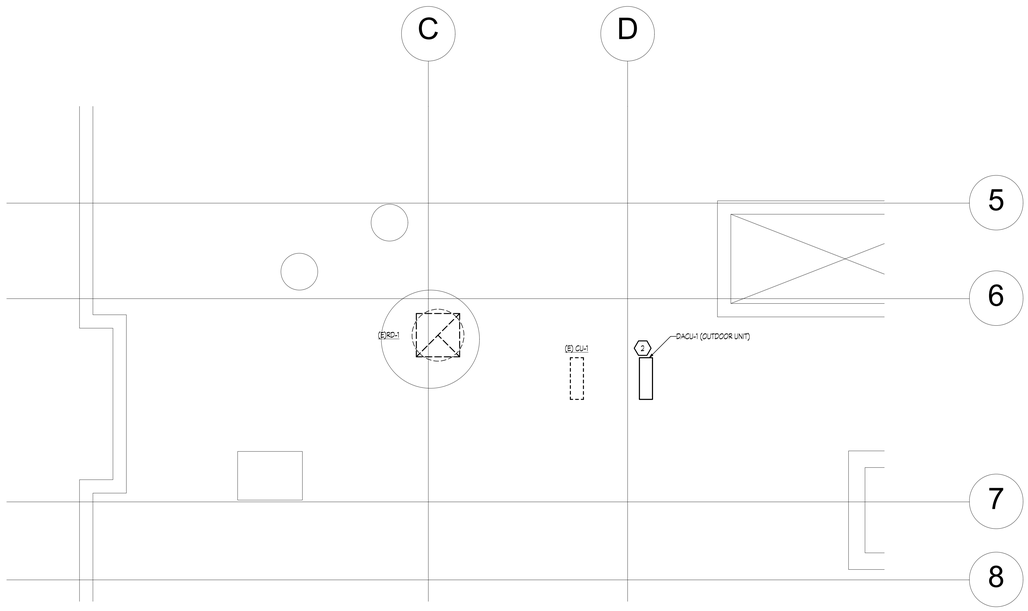
ASC JOB#: 1411109



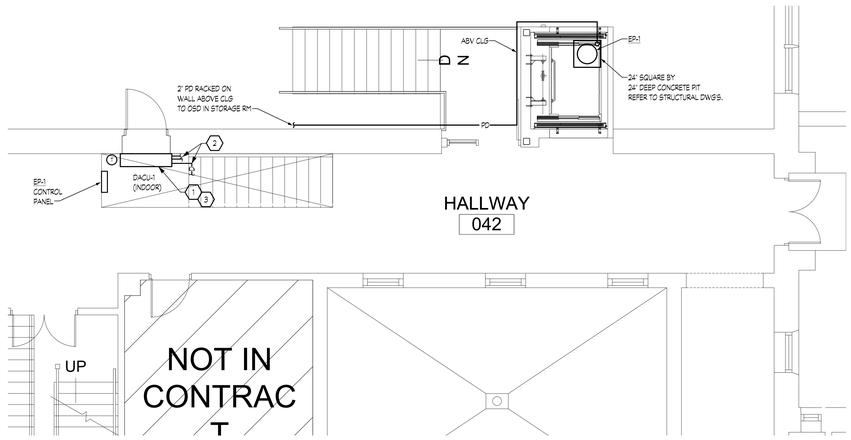
2 SANITARY SEWER RISER DIAGRAM
MP1.00 NOT TO SCALE



1 GROUND FLOOR PART PLAN
MP1.00 SCALE: 1/4" = 1'-0"



4 ROOF PART PLAN
MP1.00 SCALE: 1/4" = 1'-0"



3 FLOOR PART PLAN @ CAFETERIA LIFT
MP1.00 SCALE: 1/4" = 1'-0"

N

REVISIONS	DATE	DESCRIPTION

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO FIELD VERIFY ACTUAL TIE-IN LOCATIONS TO EXISTING.
3. COORDINATE FINAL LOCATION OF DEVICES WITH ARCHITECT.

DRAWING NOTES: (2)

1. INDOOR UNIT TO BE MOUNTED HIGH ON WALL. ROUTE CONDENSATE DRAIN LINE TO NEAREST OPEN SITE DRAIN. ROUTE REFRIGERANT PIPING UP TO THE ROOF TO CONNECT TO OUTDOOR UNIT.
2. COORDINATE EXACT LOCATION OF OUTDOOR UNIT WITH BUILDING ENGINEER.
3. COORDINATE LOCATION OF DACU-1 WITH ELEVATOR EQUIPMENT IN THE ROOM.

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SEAL

KEY PLAN

PARK VIEW ELEMENTARY SCHOOL

PHASE 1 Modernization

PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE

FLOOR PLANS
MECHANICAL/PLUMBING

DISCIPLINE	DRAWING NUMBER
SCALE	
DATE SEPTEMBER 25, 2014	MP1.00
DRAWN BY	
CHECKED BY	
SORG PROJECT # 1411	

ASC JOB# 1411109

DATE	DESCRIPTION

REVISIONS

ELECTRICAL SPECIFICATIONS - NEW WORK

1. SCOPE OF WORK:

A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL, STORAGE, UNPACKING AND PLACEMENT TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING ITEMS:

a. COMPLETE BRANCH CIRCUIT SYSTEM.
b. COMPLETE LIGHTING FIXTURE INSTALLATION, INCLUDING LAMPS.
c. COMPLETE TELEPHONE AND COMMUNICATION RACEWAY SYSTEM, WHICH INCLUDES BOXES, PLASTER RINGS, CONDUITS, AND PULL WIRES. CONDUITS AND/OR PULL STRINGS SHALL BE PROVIDED TO ACCESSIBLE CEILING SPACE OR COMMUNICATION CLOSET.
d. COMPLETE EMERGENCY LIGHTING AND POWER SYSTEM, WHICH IS CONSISTENT WITH THE BASE BUILDING.
e. TESTING OF ALL CABLES AND CIRCUIT WIRING FOR CONTINUITY OF POWER AND FOR INTEGRITY OF THE GROUNDING SYSTEM.
f. WIRING DEVICES AND FLOOR BOXES.
g. LIGHTING CONTROLS.
h. FIRE ALARM SYSTEM RELOCATION OF NEW DEVICES AS SHOWN.

B. EXISTING POWER INTERRUPTION SHALL BE COORDINATED AND APPROVED BY BUILDING MANAGEMENT.

2. WORK AND EQUIPMENT SHALL COMPLY WITH THE LATEST AND APPLICABLE ADOPTED NATIONAL BUILDING CODES (INTERNATIONAL BUILDING CODE (IBC), NATIONAL ELECTRIC CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND ALL LOCAL AMENDMENTS TO THE NATIONAL CODES, AS WELL AS THE DESIGN MANUAL OF THE METROPOLITAN WASHINGTON AIRPORTS AUTHORITY. THE ESTABLISHED NATIONAL STANDARDS SHALL BEAR THEIR LABEL ON ALL NEW EQUIPMENT (UNDERWRITER'S LABORATORY-UL), FACTORY MUTUAL-FM AND ALL WORK SHALL BE IN COMPLIANCE WITH THE OCCUPATIONAL AND SAFETY ADMINISTRATION (OSHA). MODIFICATIONS REQUIRED BY THE ABOVE SAID AUTHORITIES TO BRING THE PROJECT SPACE UNDER CONTRACT UP TO CODE SHALL BE MADE WITHOUT ADDITIONAL CHARGE. WHERE CONTRACT DOCUMENT REQUIREMENTS ARE IN EXCESS OF CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. DEVIATIONS FROM THE CONTRACT DOCUMENTS REQUIRED BY THE ABOVE AUTHORITIES SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW.

3. CONTRACTOR SHALL ARRANGE FOR THE PAYMENT OF ALL NECESSARY PERMITTING AND INSPECTION FEES. THIS CONTRACTOR SHALL SCHEDULE ALL REQUIRED INSPECTIONS OF THE PROJECTS WITH THE LOCAL JURISDICTION AT THE REQUIRED STAGES OF COMPLETION.

4. M&E DOCUMENTS ARE DIAGRAMMATIC AND INDICATE MAJOR COMPONENTS, GENERAL LOCATION OF WORK AND SYSTEMS. COORDINATE ALL TRADES AND BE FAMILIAR WITH CONDITIONS, NEW AND EXISTING, WHICH MAY AFFECT THE WORK. VERIFY AND FIELD CHECK DIMENSIONS AND CONDITIONS PRIOR TO THE START OF ANY WORK AND REVIEW THE DOCUMENTS FOR ANY CONDITIONS WHICH AFFECT THIS WORK. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. THIS CONTRACTOR SHALL REVIEW ALL SUPPORTING AND COMPLIMENTARY DOCUMENTS, WHICH ARE CONSIDERED A PART OF THE CONTRACT DOCUMENT PACKAGE. THESE DOCUMENTS INCLUDE; ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS AND SPECIFICATIONS. THESE DOCUMENTS COMPLIMENT EACH OTHER AND MUST BE UTILIZED BY ALL CONTRACTORS IN ORDER TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ANY INFORMATION, WHICH CONFLICTS WITHIN THESE DOCUMENTS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION.

5. MAKE ARRANGEMENTS FOR, AND PAY ALL COSTS, AS APPLICABLE FOR TEMPORARY POWER, LIGHTING AND HVAC AS REQUIRED TO PROPERLY CONDUCT THE WORK SPECIFIED IN THIS CONTRACT AND MAINTAIN ALL EXISTING SERVICES. PROVIDE AND MAINTAIN FOR THE ENTIRE LENGTH OF THIS CONTRACT; EXITS, EMERGENCY LIGHTING, FIRE PROTECTION AND ALARM DEVICES TO CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODES.

6. VERIFY POINTS OF CONNECTION BEFORE COMMENCING WORK. CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER AND INCLUDE THE COST IN THE BID PROPOSAL. BY SUBMITTING A BID PROPOSAL, THE CONTRACTOR AGREES TO ACCEPT EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCLUDED. EXCLUSIONS SHALL BE PROVIDED IN WRITING AS A SEPARATE DOCUMENT TO THE ARCHITECT AND ENGINEER.

7. ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND LISTED BY THE UNDERWRITERS LABORATORIES, INC (UL) BEFORE PROCURING MATERIALS OR EQUIPMENT. SUBMIT ENGINEERING DATA FOR MATERIAL AND EQUIPMENT PROPOSED FOR USE. VERIFY EQUIPMENT DIMENSIONS FOR ADEQUATE SPACE ALLOTMENT ON THE PROJECT. THE PRODUCT MANUFACTURERS AND COMPONENT MODEL NUMBERS ARE GIVEN TO ESTABLISH A LEVEL OF QUALITY AND PERFORMANCE, AND ARE NOT INTENDED TO EXCLUDE EQUIVALENT PRODUCTS OF ALTERNATE MANUFACTURERS. ALTERNATE MANUFACTURERS OF EQUIVALENT PRODUCTS WILL BE CONSIDERED. COORDINATE, PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO BE SUBMITTED SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, CONTROL DEVICES, WIRING DEVICES (SWITCHES AND RECEPTACLES), CIRCUIT BREAKERS, SAFETY SWITCHES, FIRE DETECTION AND ALARM EQUIPMENT.

8. MAINTAIN A SET OF MEP RECORD DRAWINGS IN THE GENERAL CONTRACTORS OFFICE, AT THE PROJECT SITE OFFICE. INDICATE ACTUAL LOCATIONS OF ALL EQUIPMENT, CONDUIT AND ETC., AS WELL AS DEVIATIONS OF WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS. WHERE CONFLICTS EXIST BETWEEN EQUIPMENT OF MULTIPLE DISCIPLINES, THIS CONTRACTOR SHALL DEVELOP FIELD COORDINATION DRAWINGS TO ASSIST IN THE INSTALLATION AS WELL AS A RECORD TO INDICATE THESE ISSUES TO THE ARCHITECT AND ENGINEER.

9. X-RAYING OF STRUCTURE: DO NOT CORE DRILL, PENETRATE OR CUT EXISTING CONCRETE FLOOR SLABS WITHOUT CONSULTING WITH THE BASE BUILDINGS STRUCTURAL ENGINEER OF RECORD, AND/OR A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER. DO NOT PROCEED WITH WORK WITHOUT WRITTEN PERMISSION FROM THE ABOVE PROFESSIONALS. ARRANGE MOBILIZATION AND PAYMENT FOR X-RAY EQUIPMENT, IF NECESSARY, TO INVESTIGATE ALL POTENTIAL STRUCTURAL IMPEDIMENTS.

10. GUARANTEE EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE YEAR BEGINNING FROM THE DAY OF FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL OCCUPANCY BY THE OWNER, WHICHEVER COMES FIRST. GUARANTEE WORK SHALL BE PERFORMED PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER. GUARANTEE SHALL APPLY TO MATERIALS, EQUIPMENT AND SERVICES. WORK SHALL BE PERFORMED USING MECHANICS SKILLED IN THEIR RESPECTIVE TRADES.

11. INSTALL WORK IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES FOR COORDINATING WORK UNDER THIS CONTRACT.

12. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION AND CLEAN DEBRIS FROM THE SITE AT THE END OF EACH WORKING DAY.

13. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ARCHITECT AND ENGINEER. HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST CLAIMS AND JUDGEMENTS ARISING OUT OF THE CONTRACTOR'S PERFORMANCE OF THE WORK OF THIS CONTRACT. DO NOT PROCEED WITH ANY WORK, FOR WHICH ADDITIONAL COMPENSATION IS EXPECTED BEYOND THE CONTRACT AMOUNT, WITHOUT AUTHORIZATION FROM THE APPROPRIATE AUTHORITY. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.

14. WHEREVER FIRE RATED PARTITIONS OR CONCRETE SLABS ARE PENETRATED BY FEEDER CONDUITS, BRANCH CIRCUIT CONDUIT, CABLING AND CABLE TRAYS; THE PENETRATIONS SHALL BE SEALED WITH CODE APPROVED, LABORATORY TESTED AND LABELED SEALANT OF THE FIRE RESISTANCE RATING, WHICH IS NOT LESS THAN THAT OF THE PENETRATED ASSEMBLY.

15. PACKAGED EQUIPMENT SHALL BE INDEPENDENTLY THIRD PARTY LABELED AS A SYSTEM FOR ITS INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORD WITH THE OCCUPATIONAL SAFETY HEALTH ADMINISTRATION (OSHA) REGULATIONS, AS WELL AS NFPA 70 (THE NATIONAL ELECTRICAL CODE).

16. PANELBOARDS: WHERE EXISTING PANELBOARDS ARE INDICATED TO BE REUSED, PROVIDE NEW CB'S AS REQUIRED FOR NEW BRANCH CIRCUITING SHOWN.

17. CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHOWN ON THE DOCUMENTS SHALL BE RATED A MINIMUM OF 75°C TYPE THHW 600 VOLT INSULATION.

A. CONDUCTORS #10AWG AND SMALLER SHALL BE SOLID TYPE CONDUCTORS. CONDUCTORS #8AWG AND LARGER SHALL BE STRANDED TYPE.
B. MINIMUM CONDUCTOR SIZE TO BE #12AWG UNLESS NOTED OTHERWISE.
C. ALL CONDUCTORS MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE.
D. ALL BRANCH CIRCUITS INSTALLED IN CONDUIT SHALL BE PROVIDED WITH A SEPARATE GREEN INSULATED GROUND CONDUCTOR.

18. CABLES: METAL CLAD CABLE (MC) WITH AN INSULATED GREEN GROUND CONDUCTOR SHALL BE USED IN ALL CONCEALED BRANCH WIRING APPLICATIONS UNLESS OTHERWISE NOTED. TYPE ARMOR CLAD CABLE (AC) OR BX CABLE IS NOT PERMITTED.

A. TYPE NM CABLE (ROMEX) IS NOT PERMITTED.

19. INSTALLATION OF CONDUIT AND CABLE:

A. CABLE AND CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS. BRANCH CIRCUITS INSTALLED IN UNFINISHED AREAS SHALL BE INSTALLED IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4".
B. ALL FITTINGS SHALL BE STEEL OR MALLEABLE IRON.
C. CONDUITS INSTALLED INDOORS SHALL BE EMT. ALL EMT FITTINGS SHALL BE COMPRESSION TYPE.
D. ALL CONNECTORS FOR SOLID CONDUIT (EMT AND IMC) SHALL BE COMPRESSION TYPE FITTINGS. ALL CONNECTORS FOR FLEXIBLE CONDUIT AND CABLE SHALL BE UL LISTED FOR USE WITH THAT EQUIPMENT.
E. ALL CABLE AND CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE PROPERLY SUPPORTED AS RECOMMENDED BY THE NEC. THE ABOVE SHALL NOT BE SUPPORTED BY MECHANICAL PIPING OR TIED TO DUCTWORK HANGERS. CABLES SHALL NOT BE SUPPORTED BY OTHER ELECTRICAL CONDUIT.
F. WHERE BRANCH CIRCUIT CABLE ENTERS AN ELECTRICAL CLOSET, THE CABLES SHALL NOT BE INSTALLED BUNDLED TOGETHER. RATHER THE CABLES SHALL BE PULLED INTO THE ROOM, DRESSED AND TRAINED INTO SINGLE AND DOUBLE ROWS, WHICH ARE NEATLY FASTENED TO KINDORF RACK VIA THE PROPER TYPE OF CABLE PRESSURE CONNECTORS. THE CABLE SHALL BE SUPPORTED AND SMOOTHLY TRANSITIONED INTO THE INDICATED BRANCH CIRCUIT PANELBOARD.
G. COORDINATE ALL CONDUITS, AND CABLE RUNS WITH MECHANICAL PIPING AND DUCTWORK TO AVOID CONFLICTS.
H. CONDUITS SHALL NOT BE USED AS EQUIPMENT GROUND RETURN PATHS.
I. ALL WIRING SHALL BE INSTALLED IN CONDUIT PER DM 22.5, INCLUSIVE OF LOW VOLTAGE/CONTROL WIRING (I.E. THERMOSTATS, AUDIO, VISUAL, COMMUNICATIONS, ETC.).

20. OUTLET BOXES

A. USE SHEET STEEL, ZINC COATED OR CADMIUM PLATED OUTLET BOXES CONCEALED FOR INTERIOR WORK.
B. WALL BOXES SHALL BE 4' SQUARE X 2 1/2" DEEP WHERE WALL CONSTRUCTION PERMITS.
C. GANG BOXES SHALL BE ONE PIECE.
D. FLUSH MOUNT BOXES IN ALL FINISHED WALLS, INSTALL PLASTERRINGS IN DRYWALLED OR PLASTERED WALLS AND RAISED COVERTS AS REQUIRED IN WALLS WITH OTHER FINISHES SO COVER PLATES WILL FIT TIGHT AGAINST WALL SURFACE.
E. PROPERLY SUPPORT ALL BOXES PER THE NEC TO ALLOW FOR A RIGID HOLD AND PROPER ALIGNMENT.

21. WIRING DEVICES:

A. ALL LIGHTING SWITCHES SHALL BE RATED 20 AMPERE 120/277 VOLT AC QUIET TYPE SNAP SWITCHES.
B. PROVIDE NEMA 5-20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES UNLESS OTHERWISE NOTED.
C. RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM DUPLEX RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.
D. ALL WIRING DEVICES, SHALL BE IVORY IN COLOR OR APPROVED BY THE ARCHITECT AND MANUFACTURED BY HUBBELL, P& S OR LEVITON.
E. PROVIDE DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS NOTED OTHERWISE:

1. FINISHED AREAS: PRIME PAINTED STEEL IN THE COLOR OF THE DEVICE.
2. WHERE MORE THAN ONE DEVICE IS INDICATED, PROVIDE A MULTI-GANG BOX AND A COMMON GANG DEVICE PLATE.

22. NOT USED.

23. PROVIDE CUTTING AND PATCHING AS REQUIRED TO ACCOMPLISH THE ELECTRICAL WORK PORTRAYED ON THE DRAWINGS.

24. EXTENSION OF THE BUILDING FIRE ALARM SYSTEM:

A. FURNISH AND INSTALL ALL DEVICES, OUTLET BOXES, CONDUIT AND WIRE. FINAL CONNECTIONS AND TESTING FOR EXTENSION OF THE BASE BUILDING FIRE ALARM SYSTEM AS INDICATED HEREIN AND ON THE DRAWINGS.
B. ALL DEVICES SHALL BE COMPLETELY COMPATIBLE WITH THE EXISTING BUILDING FIRE ALARM SYSTEM. THE EXISTING BUILDING SYSTEM MANUFACTURER SHALL BE VERIFIED WITH BUILDING MANAGEMENT PRIOR TO PROCUREMENT. NO DEVIATION WILL BE ALLOWED WITHOUT SPECIFIC AUTHORIZATION FROM BUILDING MANAGEMENT.
C. CONTRACTOR SHALL ENGAGE AND PAY THE BUILDING FIRE ALARM SYSTEM WARRANTY PROVIDER TO MAKE ANY REQUIRED MODIFICATIONS TO THE BUILDING SYSTEM. COORDINATE WITH BUILDING MANAGEMENT.
D. DEVICES TO BE PROVIDED FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO; NFPA 72 AND ADA COMPLIANT FLASHING STROBE LIGHTS (MINIMUM 75 CANDELA, UNO).
E. WHERE EXISTING SYSTEM CANNOT SUPPORT ADDITIONAL DEVICES. PROVIDE SYSTEM EXTENDER PANEL FOR ALL NEW CIRCUITS. NEW PANEL SHALL BE UL LISTED AND PROVIDE WITH BATTERY BACK-UP PER NFPA. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND DEVICES TO INTERFACE WITH THE EXISTING BUILDING FIRE ALARM SYSTEM PANEL.
F. WHERE MULTIPLE STROBE DEVICES ARE INSTALLED IN A COMMON AREA, PROVIDE SYNCHRONIZED STROBES TO ALLOW FLASH TO OCCUR SIMULTANEOUSLY.
G. WIRING:

a. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN MINIMUM OF 3/4" CONDUIT, EXCEPT USE UL RATED "MC" FIRE ALARM CABLE FROM JUNCTION BOX LOCATED ABOVE CEILING SPACE OVER THE STROBE, DOWN INSIDE THE WALL TO STROBE JUNCTION BOX. WHERE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ), THE CONTRACTOR MAY USE UL LISTED, MC FIRE ALARM CABLE.
b. ALL WIRING TO DEVICES SHALL BE SIZED AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
c. FIRE ALARM WIRING SHALL NOT BE INSTALLED IN THE SAME CONDUIT OR JUNCTION BOXES AS POWER AND LIGHTING WIRING.
d. ALL WIRE SPLICING SHALL BE PERFORMED IN JUNCTION BOXES SIZED TO ACCOMMODATE TERMINAL BLOCKS (NUMBER AS REQUIRED). ALL CONNECTIONS SHALL BE MADE WITH APPROVED CRIMP-ON TERMINAL SPADE LUGS, PRESSURE-TYPE TERMINAL BLOCKS OR PLUG CONNECTORS. CABLE TAPS OR T-TAPS WILL NOT BE PERMITTED.

H. FIELD QUALITY CONTROL AND TESTING: ALL TESTING SHALL BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE BUILDING MANAGEMENT.

a. DEMONSTRATE THAT THE ENTIRE TENANT FIRE ALARM SYSTEM FUNCTIONS IN ACCORDANCE WITH THE EXISTING BASE BUILDING SYSTEM OPERATION. TEST CIRCUITS OF AUTOMATIC ALARM CONDITIONS, MANUAL ALARM CONDITIONS AND EQUIPMENT SHUTDOWN IN ACCORDANCE WITH THE EXISTING BASE BUILDING SYSTEM OPERATION AND NFPA 72.
b. TEST CONDUCTORS FOR SHORT CIRCUITS USING AN INSULATION-TESTING DEVICE.
c. TEST INDICATING AND INITIATING CIRCUITS FOR PROPER SIGNAL TRANSMISSION UNDER OPEN CIRCUIT CONDITIONS.
d. TEST INDICATING AND INITIATING CIRCUITS FOR PROPER ALARM OPERATION AND RESPONSE AND ANNUNCIATION AT THE MAIN FIRE ALARM CONTROL PANEL.
e. TEST THE EXISTING AND NEW SYSTEMS FOR SPECIFIED FUNCTIONS ACCORDING TO THE EXISTING BASE BUILDING SYSTEM OPERATION. SYSTEMATICALLY INITIATE SPECIFIC FUNCTIONAL PERFORMANCE ITEMS AT EACH STATION, INCLUDING MAKING ALL POSSIBLE ALARM AND MONITORING INITIATIONS AND USING ALL COMMUNICATIONS OPTIONS. FOR EACH ITEM, OBSERVE RELATED PERFORMANCE AT ALL DEVICES AFFECTED BY THE ITEM UNDER ALL SYSTEM SEQUENCES. OBSERVE INDICATING LIGHTS, SIGNAL TONES AND ANNUNCIATION INDICATIONS.
f. RETESTING: CORRECT DEFICIENCIES INDICATED BY TESTING AND COMPLETELY RETEST WORK AFFECTED BY SUCH DEFICIENCIES. VERIFY BY THE SYSTEM TEST THAT THE TOTAL SYSTEM MEETS THE EXISTING BASE BUILDING SYSTEM OPERATION STANDARD.
g. COORDINATE ALL ELECTRICAL DOOR STRIKES/LOCKS.
h. UPON ACTIVATION OF FLOOR FIRE ALARM, SMOKE DETECTORS, PULL STATION ETC., SHALL CAUSE THE RELEASE OF ALL SECURITY DOOR LOCKS/ELECTRIC DOOR STRIKE, AND TO SHUT DOWN HVAC UNITS SERVING THE TENANT AREA.
j. CONTRACTOR SHALL SUBMIT DRAWINGS, SHOP DRAWINGS, AND CUT SHEETS OF ADDED DEVICES TO THE BUILDING MANAGEMENT FOR REVIEW, AND TO COMPLY WITH ALL BUILDING REQUIREMENTS PRIOR TO THE INSTALLATION OF ANY FIRE ALARM DEVICES.

25. EXISTING BUILDING IN WHICH THE WORK OF THIS CONTRACT IS TO TAKE PLACE IS TO REMAIN OCCUPIED AND ACCESSIBLE AT ALL TIMES. PROTECT THE BUILDING PREMISES AND ALL OCCUPANTS ON THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES CAUSED BY IMPROPER PROTECTION AND SHALL MAKE ALL NECESSARY REPLACEMENTS OR REPAIRS WITHOUT ANY ADDITIONAL COST. MAKE ALL ARRANGEMENTS, MAINTAIN AND PAY ALL COSTS FOR TEMPORARY WATER, PLUMBING, POWER, LIGHTING, AND HEATING OR VENTILATION AS REQUIRED TO PROPERLY CONDUCT THE WORK OF THIS CONTRACT AND MAINTAIN SERVICES. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FOR THE ENTIRE LENGTH OF THIS CONTRACT ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.

26. EXISTING EQUIPMENT TO REMAIN, BE REUSED, OR RELOCATED WITHIN OR SERVING THE SPACE, WHICH IS DAMAGED OR DOES NOT COMPLY WITH THE SPECIFICATIONS, SHALL BE RESTORED TO LIKE NEW CONDITION SUBJECT TO REVIEW BY THE ARCHITECT AND ENGINEER, OR SHALL BE REPLACED WITH NEW MATERIALS MEETING THE SPECIFICATION REQUIREMENTS.

27. SOME WORK SHOWN MAY REQUIRE PREMIUM TIME TO AVOID DISRUPTION OF ACTIVITIES AND MEP SERVICES. CONTRACTOR SHALL CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER AND INCLUDE THE COST IN HIS BID PROPOSAL. THE CONTRACTOR, BY SUBMITTING HIS BID PROPOSAL AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCEPTED. ALL EXCEPTIONS SHALL BE PROVIDED IN WRITING TO THE ARCHITECT AND ENGINEER.

B. DEMOLITION

1. GENERAL:

A. REMOVE/RELOCATE SUCH WORK AS REQUIRED TO PERMIT NEW CONSTRUCTION.
B. EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE REMOVED UNLESS OTHERWISE NOTED.
C. WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED. FOR EXISTING INSTALLATION WHICH INVOLVE BASE BUILDING SYSTEMS, OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
D. WHERE EXISTING RACEWAYS THAT ARE NOT TO BE RE-USED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX AND THE OPENINGS BLANKED OFF.
E. MAINTAIN CONTINUITY OF THOSE FEEDERS AND/OR BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING REMOVED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING REMOVED SHALL BE DISCONNECTED AND REMOVED AS FAR BACK TO THE SOURCE AS PRACTICAL. REMOVE BACK TO SOURCE IF POSSIBLE.
F. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREAS TO BE RENOVATED. INCLUDING LIGHTING FIXTURES, SWITCHES, EXPOSED CONDUIT, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, ETC. REMOVE ALL ACCESSIBLE WIRING & CONDUIT BACK TO EXISTING PANELS. CUT BACK, CAP AND ABANDON ALL CONCEALED CONDUITS.
EXCEPTION:

1. PANELS, FEEDERS, TRANSFORMERS, FIRE ALARM SYSTEM UNO.
2. EQUIPMENT INDICATED ON THE DRAWINGS TO REMAIN.
3. EQUIPMENT INDICATED BY BASE BUILDING OWNER TO REMAIN.

G. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND FEEDERS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
H. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY AFTER REMOVAL OF ALL DEVICES, CONTRACTOR SHALL TURN ALL DEVICES OVER TO OWNER'S REPRESENTATIVE FOR INSPECTION. AFTER INSPECTION BY THE OWNER'S REPRESENTATIVE, ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY DISPOSED.
I. HOLES IN FLOORS, WALLS AND CEILINGS TO REMAIN WHICH ARE CAUSED BY DEMOLITION OR REMOVAL OF ELECTRICAL CONDUITS, PANELS, FEEDERS AND EQUIPMENT SHALL BE PATCHED/REPAIRED TO MATCH THE SURROUNDING SURFACE AND TO MAINTAIN REQUIRED FIRE RATING.
J. ALL ELECTRICAL INSTALLATIONS OUTSIDE THE CONSTRUCTION AREA WHICH ARE DISRUPTED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE BUILDING OWNER.

2. PROTECTION:

A. PROTECT FROM DAMAGE ALL EXISTING WORK TO REMAIN. ANY EXISTING-TO-REMAIN OR EXISTING-TO-BE-RELOCATED MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE WORK SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO THESE SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.

3. TERMINATION AND PATCHING:

A. DISCONNECT EXISTING-TO-BE-REMOVED OR EXISTING-TO-BE-RELOCATED CONDUIT, WIRING, CABLING, AND EQUIPMENT FROM EXISTING-TO-REMAIN POINTS INDICATED. IF NOT INDICATED, VERIFY POINT WITH THE OWNER'S REPRESENTATIVE PRIOR TO DISCONNECTION.
B. CAP EXISTING-TO-REMAIN WALL OUTLETS, JUNCTION BOXES, WITH DEVICE PLATES TO MATCH EXISTING.
C. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING REMOVAL OR RELOCATION OF ELECTRICAL WORK, PATCH THE CUT OR DAMAGED AREAS TO MATCH ADJACENT CONSTRUCTION.

PROJECT SCOPE OF WORK:

REMODEL OF APPROXIMATELY 200 SQUARE FEET OF EXISTING AREAS FOR ELEVATOR, ELEVATOR MACHINE ROOM AND CHAIR LIFT INSTALLATIONS.

1. RELOCATION OF EXISTING EMERGENCY LIGHTING UNIT AND RECEPTACLE.

2. INSTALLATION OF NEW LIGHT FIXTURES , RECEPTACLES, FIRE ALARM SMOKE DETECTORS AND STROBES.

3. INSTALLATION OF NEW DISCONNECT SWITCHES FOR ELEVATOR EQUIPMENT AND MECHANICAL UNITS.

4. INSTALLATION OF NEW BREAKERS AND BRANCH CIRCUITS FOR ELEVATOR, INDOOR - OUTDOOR AC UNITS, LIGHTING, RECEPTACLES, AND OIL MINDER SUMP PUMP CONTROL PANEL.

5. INSTALLATION OF NEW SMOKE DETECTORS AT ELEVATOR SHAFT.

ELECTRICAL ABBREVIATIONS

LAN	LOCAL AREA NETWORK	MLO	MAIN LUG ONLY
EXIST.	EXISTING	N	NEUTRAL
A	AMPS OR AMPERES	NEC	NATIONAL ELECTRICAL CODE
ACT	ABOVE COUNTER TOP	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
AFF	ABOVE FINISHED FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AFG	ABOVE FINISHED GRADE		
AIC	AMPERES INTERRUPTING CAPACITY	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NO.; #	NUMBER
BLDG	BUILDING	P	POLE
C	CONDUIT; CONDUCTOR	PH; Ø	PHASE
ELEC	ELECTRICAL	PNL	PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	RL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN	RX	EXISTING TO BE REMOVED
FLA	FULL LOAD AMPS	NLE	NEW LOCATION OF EXISTING
G; GRD	GROUND	W	WATT(S); WIRE
LTG	LIGHTING	UNO	UNLESS NOTED OTHERWISE
MCB	MAIN CIRCUIT BREAKER	V	VOLTS

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	2X2 FLUORESCENT LIGHTING FIXTURE. NUMBER OR LETTER INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE
	STRIP FLUORESCENT LIGHTING FIXTURE. NUMBER OR LETTER INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE
	INDICATES LIGHTING FIXTURE ON EMERGENCY CIRCUIT OR FIXTURE PROVIDED WITH BATTERY BACK-UP FIXTURE BALLAST
	WALL MOUNTED SCONCE OR BRACKET TYPE LIGHT FIXTURE. NUMBER OR LETTER INDICATES TYPE. REFER TO LIGHTING FIXTURE SCHEDULE.
F	DISCONNECT SWITCH, NFSS OR FSS.
OS	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. SHALL BE WATT STOPPED #DT-300 OR APPROVED EQUALLY.
	SIMPLEX RECEPTACLE, 20 AMP, NEMA5-20R , MOUNT +18" AFF UNO.
	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI), 20 AMP RATED, MOUNT +18" AFF UNO.
SD	SMOKE DETECTOR.
15 V	WALL MOUNTED VISUAL ALARM (OR FLASHING STROBE), NUMBER INDICATES CANDELA RATING . MOUNT +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER CANDELA PER UL 1971.
15 V	SEMI-FLUSH CEILING MOUNTED VISUAL ALARM (OR FLASHING STROBE), NUMBER INDICATES CANDELA RATING AS SHOWN, PER UL 1971.
110 AV	WALL MOUNTED COMBINATION AUDIBLE/VISUAL ALARM, NUMBER INDICATES CANDELA RATING. MOUNT +80" TO 96" AFF. CANDELA PER UL 1971
110 AV	SEMI-FLUSH CEILING MOUNTED COMBINATION AUDIBLE/VISUAL ALARM, NUMBER INDICATES CANDELA RATING. CANDELA PER UL 1971
HD	HEAT DETECTOR.
$M	MANUAL MOTOR RATED SWITCH
	MOTOR CONNECTION

LIGHT FIXTURE GENERAL NOTES:

1. ALL CEILING TYPES SHALL BE VERIFIED PRIOR TO FIXTURES BEING ORDERED.

2. ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH HIGH POWER FACTOR ELECTRONIC BALLASTS. ALL HID FIXTURES SHALL BE PROVIDED WITH HIGH POWER FACTOR BALLASTS.

3. THE FIXTURES SHOWN ON THIS SCHEDULE ARE SELECTED BY ALLEN AND SHARIFF ENGINEERING AND THESE FIXTURES SHALL BE SUBJECT TO ALL REVIEW AND APPROVAL OF THE SUBMITTALS.

4. ALL FIXTURES SHOWN ESTABLISH THE BASIS OF DESIGN OR LEVEL OF QUALITY EXPECTED, IF ALTERNATE FIXTURES ARE SUBSTITUTED DURING THE SUBMITTAL PROCESS,
THE ENGINEER ARCHITECT RESERVE THE RIGHT TO REJECT THE SUBSTITUTED FIXTURE BASED UPON OUR PROFESSIONAL JUDGEMENT.

5. ALL FIXTURES PROVIDED ARE EXPECTED TO HAVE ALL APPURTENANCES, MOUNTING HARDWARE AND ECT. PROVIDED IN ORDER FOR PROPER INSTALLATION.

6. INTEGRAL OR EXTERNAL AUTOMATIC TRANSFER SWITCH, GTD OR ETS, SHALL BE PROVIDED FOR EMERGENCY LIGHT FIXTURES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS		MOUNTING	VOLTAGE	REMARKS
				QTY	TYPE			
A	INDUSTRIAL FLUORESCENT FIXTURE WITH WIRE GUARD	LITHONIA	LA-2-32-MVOLT-GEB10RS WIREGUARD	2	32W T8	CEILING	120V	LOCATION: ELEVATOR MACHINE ROOM
B	EMERGENCY LIGHTING UNIT WITH TWO INTEGRAL HEADS	SURE LITE	CC8-12-100-MRT-LASER	2	INCLUDED	WALL	120V	LOCATION: ELEVATOR MACHINE ROOM
C	VAPOR TIGHT RUGGED DIE CAST ALUMINUM FIXTURE WITH WIRE GUARD	LITHONIA	VC42LM6	1	42W CFL	WALL SCONCE	120V	LOCATION: ELEVATOR PIT

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SEAL

KEY PLAN

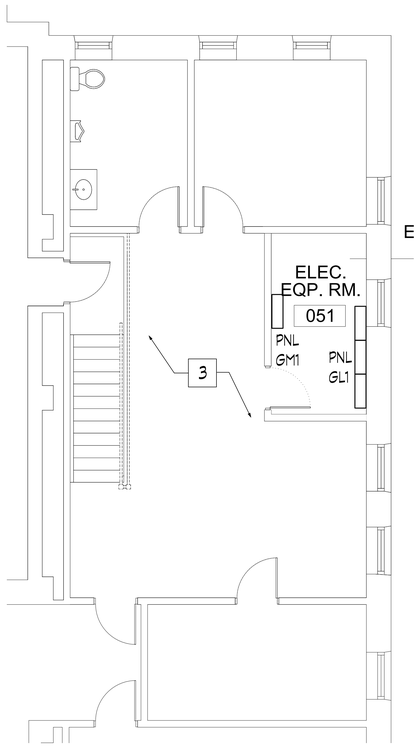
PARK VIEW ELEMENTARY SCHOOL
PHASE 1 Modernization

PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

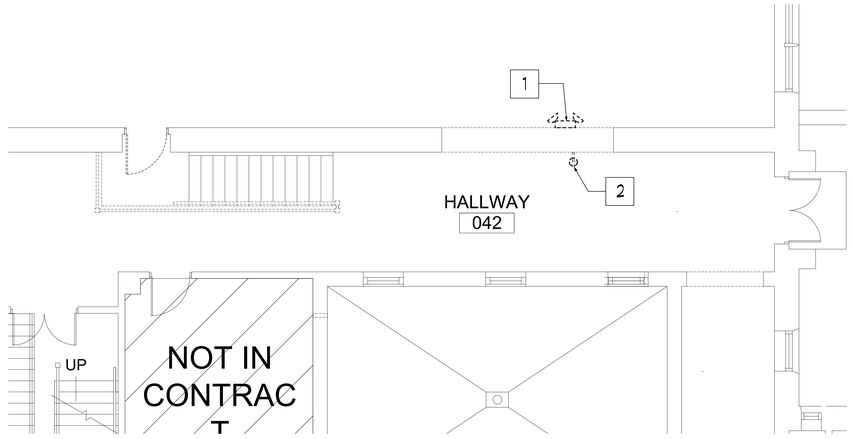
DRAWING TITLE
DATA SHEET
ELETRICAL

DISCIPLINE	DRAWING NUMBER
SCALE	E0.00
DATE SEPTEMBER 25, 2014	
DRAWN BY	
CHECKED BY	
SORG PROJECT # 1411	

ASC JOB#: 1411109



1 E1.00 DEMOLITION PLAN AT GYMNASIUM LIFT
SCALE: 1/4" = 1'-0"



3 E1.00 DEMOLITION PLAN AT CAFETERIA LIFT
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SWITCHBOARD SWBD LOCATED ON BASEMENT LEVEL IN MAIN ELECTRICAL ROOM. ESTIMATED CIRCUIT LENGTH FROM AREA OF WORK: 250 FEET.

2. PANEL GL2 AND GM2 LOCATED ON GROUND FLOOR IN ELECTRICAL EQUIPMENT ROOM 015. ESTIMATED CIRCUIT LENGTHS FROM AREA OF WORK: 50 FEET.

3. PANEL GL1 LOCATED ON GROUND FLOOR IN ELECTRICAL ROOM. ESTIMATED CIRCUIT LENGTHS FROM AREA OF WORK: 20 FEET.

4. CONNECT FIRE ALARM DEVICES TO FIRE ALARM CIRCUIT SERVING AREA OF WORK.

5. ADJUST LOCATION OF EXISTING FIRE ALARM DEVICES AS REQUIRED.

6. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING FIELD CONDITIONS (MANUFACTURER AND MODEL).

7. UPDATE ALL PANEL SCHEDULES AFFECTED BY THIS WORK.

8. CONNECT EMERGENCY LIGHTING UNIT TO NORMAL LIGHTING CIRCUIT SERVING SPACE, AHEAD ON ANY LIGHTING CONTROL.

9. SEE ROOF PLAN ON SHEET E1.01 FOR APPROXIMATE LOCATIONS OF ELECTRICAL EQUIPMENT AND ROOMS.

DEMOLITION NOTES:

1. REMOVE AND RELOCATE EXISTING EMERGENCY LIGHTING UNIT. SEE NEW WORK PLAN ON THIS SHEET FOR NEW NEW LOCATION AND ADDITIONAL INFORMATION.

2. REMOVE AND RELOCATE EXISTING RECEPTACLE. SEE NEW WORK PLAN ON THIS SHEET FOR NEW LOCATION AND ADDITIONAL INFORMATION.

3. ALL EXISTING CONDITIONS (LIGHTING, POWER AND FIRE ALARM, ETC.) IN AREA OF WORK ARE EXISTING TO REMAIN.

DRAWING NOTES:

1. PROVIDE 240V, 2P, 30A FUSIBLE DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTING. FUSE PER MANUFACTURERS RECOMMENDATION. ROUTE 2#10, 1#10G IN 3/4"C TO PANEL AND CIRCUIT INDICATED. PROVIDE 20A, 1P BREAKER IN PANEL FOR CONNECTION OF CIRCUIT.

2. PROVIDE 240V, 3P, 60A FUSIBLE DISCONNECT SWITCH IN NEMA 1 ENCLOSURE FOR ELEVATOR CONTROLLER. PROVIDE 30A FUSES. ROUTE 3#10, 1#10G IN 3/4"C TO PANEL AND CIRCUIT INDICATED. PROVIDE 30A, 3P BREAKER IN PANEL FOR CONNECTION OF CIRCUIT.

3. POWER SOURCE FROM ASSOCIATED ROOF MOUNTED SPLIT SYSTEM OUTDOOR UNIT (2#12, 1#10G IN 3/4"C). SEE ROOF PLAN ON SHEET E1.01 FOR ADDITIONAL INFORMATION.

4. PROVIDE 240V, 2P, 30A FUSIBLE DISCONNECT SWITCH WITH FUSES PER MANUFACTURER'S RECOMMENDATION.

5. ROUTE 2#10, 1#10G IN 3/4"C TO PANEL AND CIRCUIT INDICATED. PROVIDE 20A, 1P BREAKER IN PANEL FOR CONNECTION OF CIRCUIT.

6. OIL MINDER PANEL TO BE INSTALLED FOR CONTROL OF ELEVATOR SUMP PUMP. ROUTE 2#12, 1#12G IN 3/4" CONDUIT TO PANEL AND CIRCUIT INDICATED. PROVIDE 20A, 2P BREAKER IN PANEL FOR CONNECTION OF CIRCUIT.

7. PROVIDE EMERGENCY STOP SWITCH. COORDINATE ALL REQUIREMENTS WITH ELEVATOR INSPECTOR.

8. CONNECT CONDUIT AND WIRING TO EXISTING 120V, 1 PHASE NORMAL LIGHTING CIRCUIT SERVING AREA OF WORK.

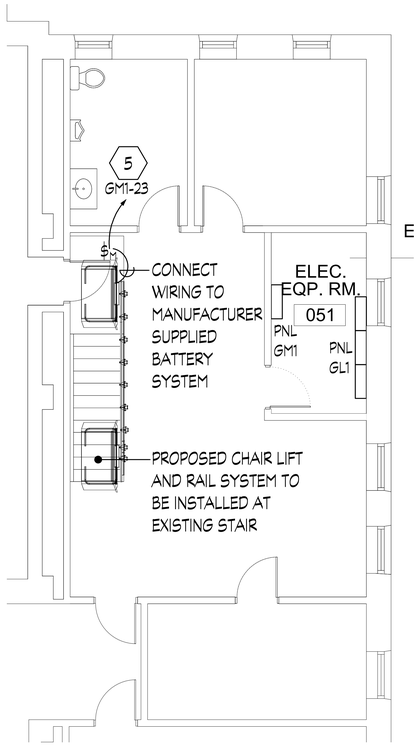
9. NEW SUMP PUMP (208V, 1 PHASE, 1/2HP) TO BE INSTALLED AT ELEVATOR PIT. PUMP PROVIDED WITH MANUFACTURER SUPPLIED DISCONNECT SWITCH. POWER AND CONTROL CABLES FOR CONNECTION TO OIL MINDER CONTROL PANEL AT ELEVATOR MACHINE ROOM.

10. NEW LOCATION OF EXISTING RECEPTACLE. REWORK AND EXTEND ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION AND MAKE ALL FINAL CONNECTIONS.

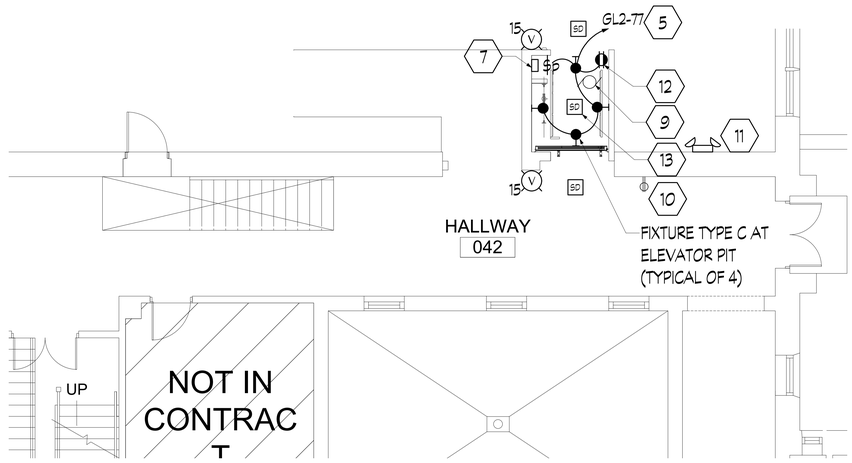
11. NEW LOCATION OF EXISTING EMERGENCY LIGHTING UNIT. REWORK AND EXTEND ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION AND MAKE ALL FINAL CONNECTIONS.

12. CONNECT RECEPTACLE TO LIGHTING CIRCUIT SERVING AREA OR ROOM, AHEAD OF ANY LIGHTING CONTROL.

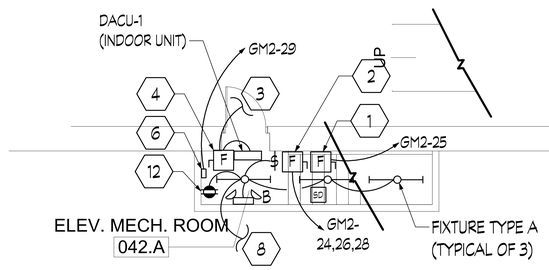
13. PROVIDE SMOKE DETECTOR AT TOP AND BOTTOM OF SHAFT.



2 E1.00 NEW WORK FLOOR PLAN AT GYMNASIUM LIFT
SCALE: 1/4" = 1'-0"



4 E1.00 NEW WORK FLOOR PLAN @ CAFETERIA LIFT
SCALE: 1/4" = 1'-0"



5 E1.00 NEW WORK LOWER LEVEL PLAN
SCALE: 1/4" = 1'-0"

N

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PARK VIEW ELEMENTARY SCHOOL

PHASE 1 Modernization

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ELECTRICAL

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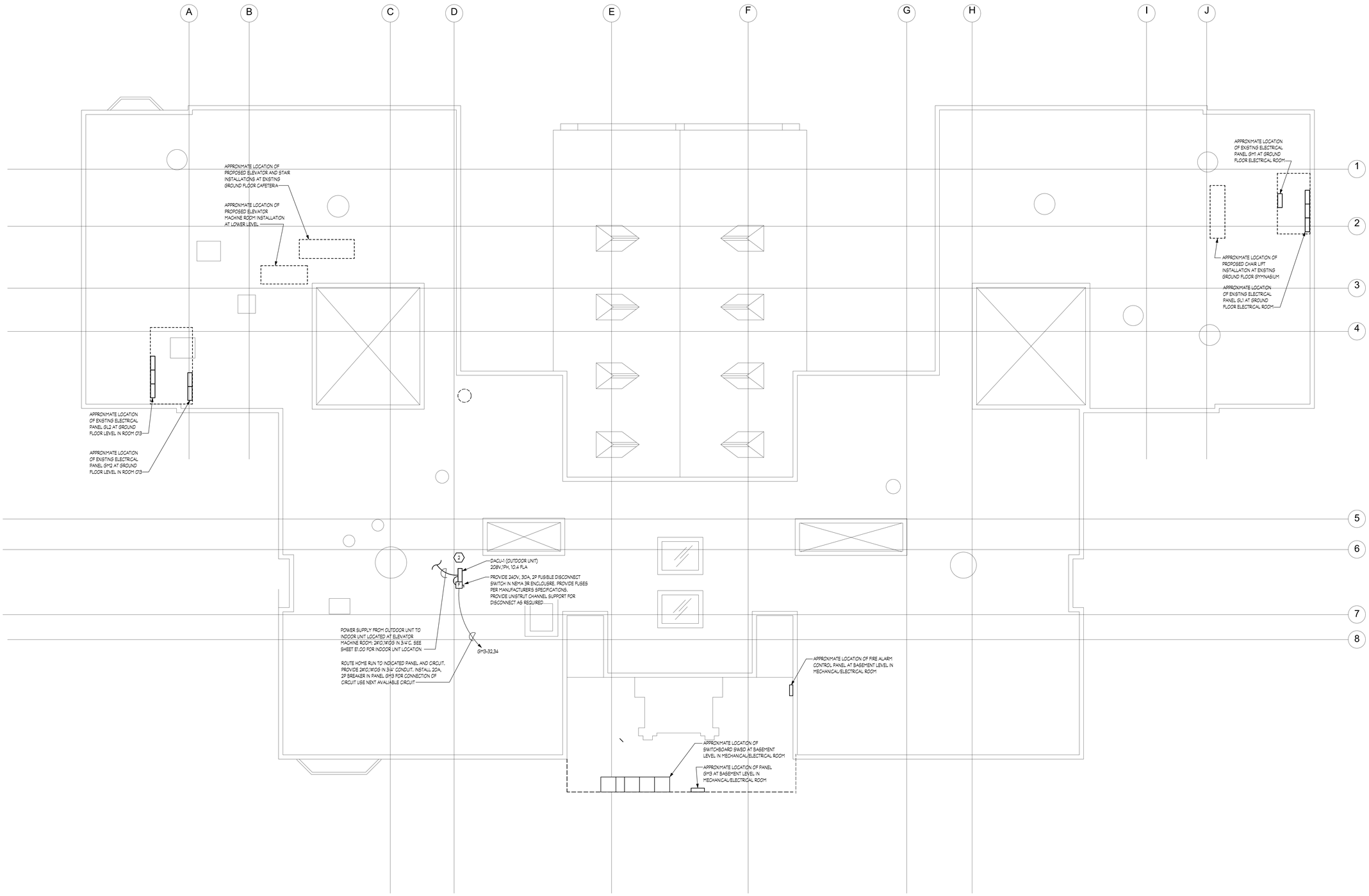

2 / E1.01 ROOF PLAN - POWER
SCALE: 1/8" = 1'-0"

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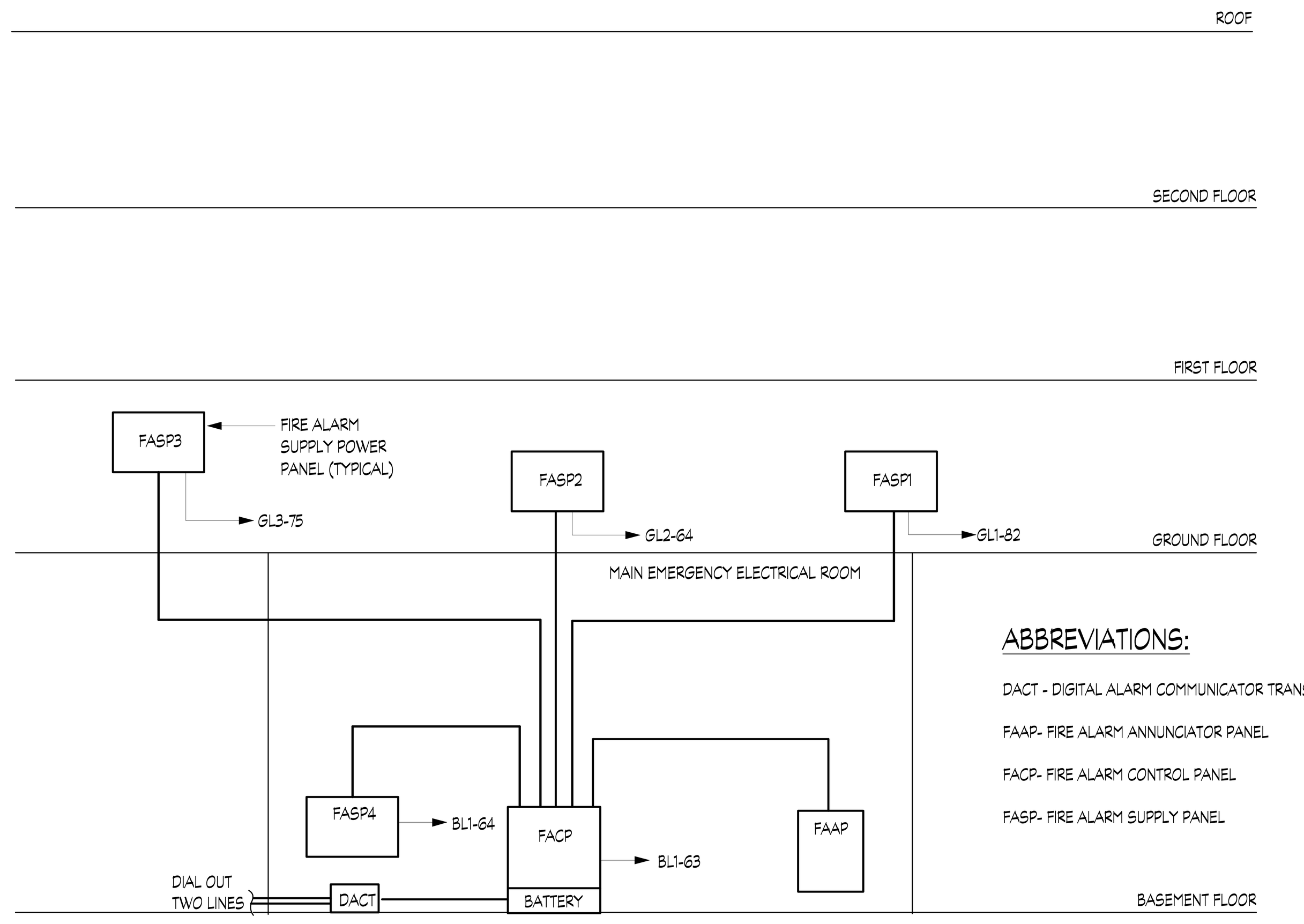


ABBREVIATIONS:

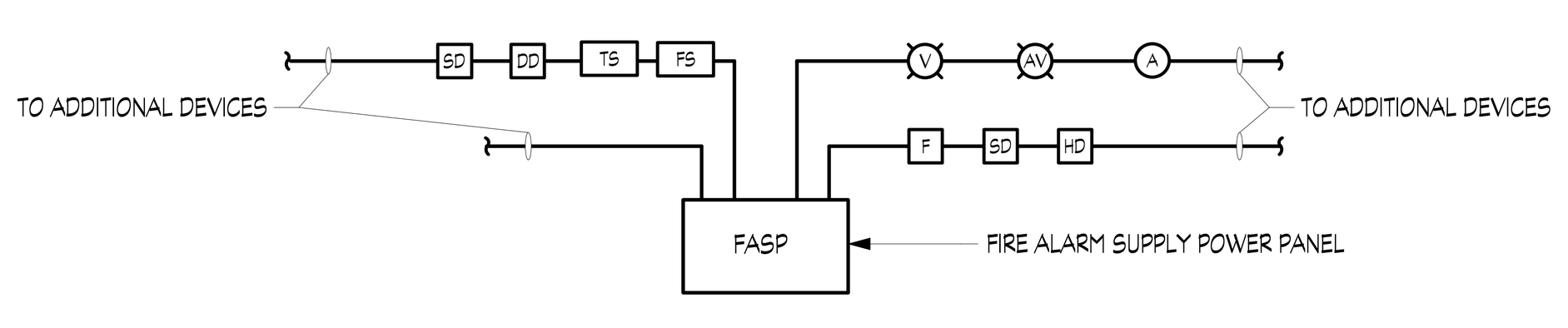
DACT - DIGITAL ALARM COMMUNICATOR TRANSMITTOR

FAAP- FIRE ALARM ANNUNCIATOR PANEL

FACP- FIRE ALARM CONTROL PANEL

FASP- FIRE ALARM SUPPLY PANEL

1
E0.00
TYPICAL F.A. POWER SUPPLY PANEL DEVICE CONNECTION DETAIL (SHOWN FOR REFERENCE ONLY)
SCALE: NONE
PLEASE NOTE: ALL EQUIPMENT AND ROUTINGS SHOWN ARE EXISTING TO REMAIN.



THIS DETAIL REPRESENTS A TYPICAL DEVICE INITIATING, SUPERVISORY AND NOTIFICATION CIRCUIT CONNECTIONS. SEE FLOOR PLANS FOR EXACT NUMBER AND TYPES OF DEVICES TO BE CONNECTED TO THE FASP

2
E0.00
FIRE ALARM RISER DIAGRAM (SHOWN FOR REFERENCE ONLY)
SCALE: NONE
PLEASE NOTE: ALL EQUIPMENT AND ROUTINGS SHOWN ARE EXISTING TO REMAIN.

BRUCE MONROE ELEMENTARY - FIRE ALARM MATRIX

DEVICE - SYSTEM INITIATING DEVICES / FUNCTION	NOTIFY CENTRAL STATION	SEND SUPERVISORY SIGNAL TO CENTRAL STATION AND THE FIRE ALARM CONTROL PANEL IN THE MAIN ELECTRICAL ROOM.	SEND TROUBLE SIGNAL TO CENTRAL STATION, FACP AND ALL ANNUNICIATOR PANELS	SEND SIGNAL TO ANNUNCIATOR PANELS. SIGNALS SHALL BE ISSUED BY FLOOR, ZONE, TYPE OF DEVICE AND DEVICE ADDRESS	ISSUE GENERAL ALARM OR ALL CALL SIGNAL UPON CONFIRMATION BY AHJ	ISSUE SIGNAL TO VISUAL AND AUDIBLE ALARMS ON ENTIRE BUILDING	INITIATE ELEVATOR RECALL	INITIATE TRIPPING SIGNAL TO AFFECTED ELEVATOR BANK CIRCUIT BREAKER(S)	SHUT DOWN ASSOCIATED AHU(S) AND ISSUE TROUBLE SIGNAL AT ANNUNCIATOR PANELS	SEND SIGNAL TO SECURITY SYSTEM TO UNLOCK ALL EGRESS DOORS.	OPEN ELEVATOR SHAFT VENT
EXISTING MANUAL PULL STATION	●			●	●	●				●	
ELEVATOR LOBBY SMOKE DETECTOR	●			●	●	●	●				●
ELEVATOR SHAFT SMOKE DETECTORS	●			●	●	●	●				●
EXISTING SMOKE DETECTOR - GENERAL	●			●	●	●	●			●	
ELEVATOR MACHINE ROOM SMOKE DETECTOR	●			●	●	●	●				
EXISTING DUCT SMOKE DETECTOR		●	●	●					●		

ELEVATOR NOTES:

UNDER FIRE CONDITION - ELEVATOR EMERGENCY OPERATION SHALL BE AS FOLLOWS:

A. ELEVATOR SHAFT SMOKE DETECTORS SHALL ACTIVATE RECALL OF ALL ELEVATORS WITHIN SHAFT, SOUND GENERAL ALARM, AND ANNUNCIATE APPROPRIATE LAMPS AT ANNUNCIATOR PANELS.

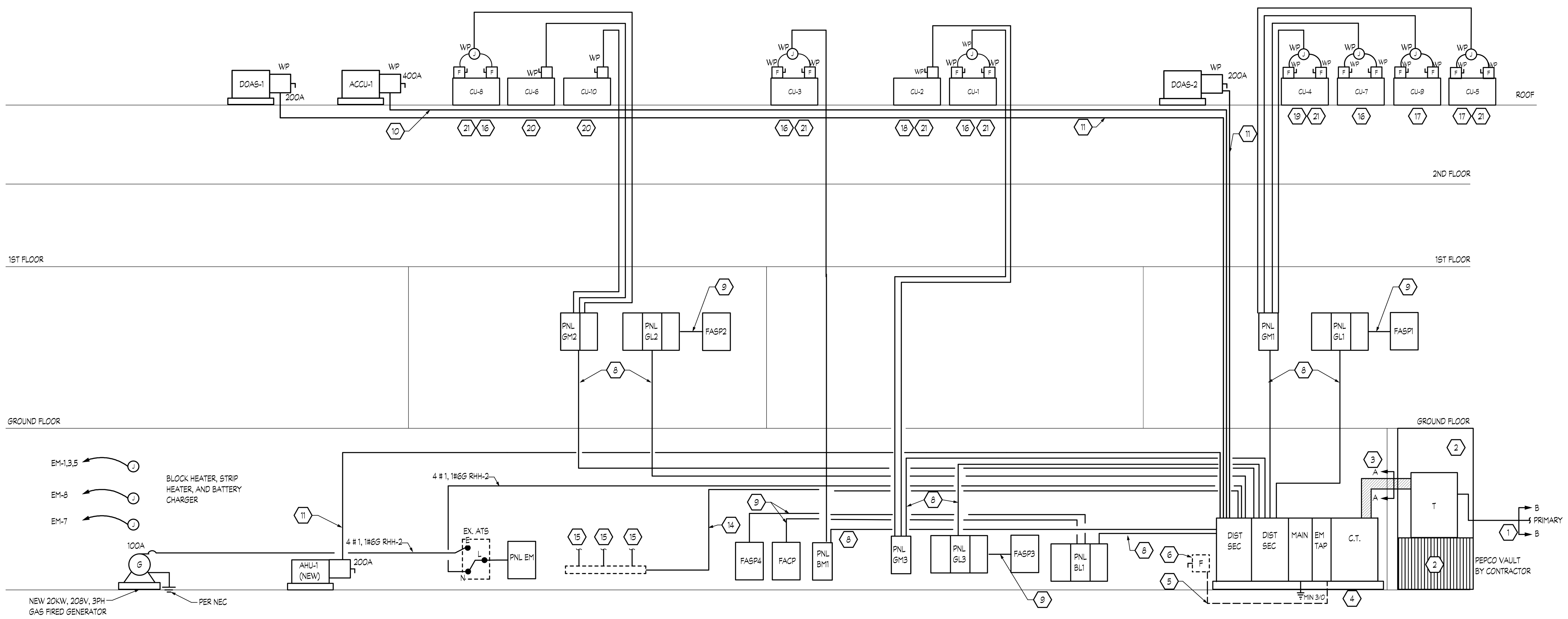
B. ELEVATOR MACHINE ROOM SMOKE DETECTOR SHALL ACTIVATE RECALL OF ALL ELEVATORS SERVED BY THAT MACHINE ROOM, SOUND GENERAL ALARM, ANNUNCIATE APPROPRIATE LAMPS AT ANNUNCIATOR PANEL.

C. ELEVATOR SHAFT SMOKE DETECTOR SHALL BE TIED O ELEVATOR SMOKE RELIEF MOTORIZED DAMPER PER NFPA 72, 2002, SECTION 6.15.3.6.

D. HEAT DETECTORS ARE NOT REQUIRED IN ELEVATOR MACHINE ROOM. THE BUILDING IS NOT SPRINKLED.

E. ELEVATOR CLOSET SPRINKLER FLOW SWITCH SHALL SOUND GENERAL ALARM AND ANNUNCIATE APPROPRIATE LAMPS AT ANNUNCIATOR PANELS.

F. HEAT DETECTORS NOT REQUIRED AT ELEVATOR SHAFT SINCE SHAFT IS NOT SPRINKLED.



3
E0.00
POWER DISTRIBUTION RISER DIAGRAM (SHOWN FOR REFERENCE ONLY)
SCALE: NONE
PLEASE NOTE: ALL DISTRIBUTION EQUIPMENT AND FEEDERS SHOWN ARE EXISTING TO REMAIN.

DRAWING NOTES (EXISTING CONDITIONS):

1. 2 WAY PRIMARY DUCTBANK SHALL BE ROUTED 1' PAST THE PROPERTY LINE. SEE DETAIL ON THIS SHEET. PRIMARY CABLE BY PEPCO.

2. PROVIDE A NEW XFMR PRECAST VAULT (6' W X 14' L X 10'H PER PECO STANDARD FROM PEPCO.PROVIDE CR-6 GRAVEL WITH CONTRETE WALLS TO KEEP THE FLOOR OF PRECAST VAULT 10' BELOW GRADE. TRANSFORMER BY PEPCO. PROVIDE GROUNDING RING AND (2) SETS OF (2) 8' LONG, 3/4" DIAMETER COPPER RODS IN SERIES AT TWO CORNERS OF THE TRANSFORMER VAULT, TIED TO BUILDING GROUNDING SYSTEM. USE PROPER GROUND ROD TO GROUND ROD CONNECTION TO CONNECT TWO GROUND RODS. VAULT ROOF SHALL BE PER PEPCO STANDARD #MH0614VPS. SEE DETAIL ON THIS SHEET.

3. 12-WAY CONCRETE ENCASED DUCTBANK PER PEPCO STANDARD. SEE DETAIL ON THIS SHEET. SECONDARY CABLE BY PEPCO INSIDE ELECTRIC ROOM, USE METAL WIRE TROUGH. 40" W X 40" D X 48"H WIRE TROUGH SHALL COVER ENTIRE C.T. SECTION. SEE INSTALLATION HEIGHT ON THIS SHEET.

4. 3000A, AT 208Y / 120V, 3PH, 4 WIRE SWITCHBOARD MOUNTED ON 4" CONCRETE HOUSE PAD. SEE BUILDING GROUNDING DETAIL FOR CONNECTION TO MAIN SERVICE BREAKER.

5. 3" CONDUIT IN CONCRETE ENCASED PER NEC 695.6 (A) FOR FUTURE FIRE PUMP.

6. ALLOCATED SPACE FOR FUTURE FIRE PUMP SERVICE DISCONNECT.

7. 4 SETS OF (4 #350 KCMIL + 1 #3/0G IN 3 1/2" C).

8. 4 #500 KCMIL + 1 #3G IN 4" C.

9. 2 #12 + 1 #12G IN 3/4" C.

10. 3 #350 KCMIL + 1 #4G IN 3" C.

11. 3 #1, 1#6G IN 2"C.

12. NOT USED.

13. NOT USED.

14. 2 SETS OF (4 # 350, 1 # 1G IN 3" CONDUIT) TO FEED EXISTING WIRE TROUGH AND RUN ENTIRE WIRE TROUGH.

15. CONNECT ALL EXISTING TAPPED LOADS TO THE NEW WIRES INSIDE OF THE WIRE TROUGH. SEE EXISTING POWER RISER FOR MORE INFORMATION. PROVIDE PROPER FEEDERS, AND REQUIREMENTS PER NEC FOR PROPER CONNECTIONS. THE 400A EXISTING DISCONNECT SHOULD BE TIED TO THE BOTH SETS OF WIRING INSIDE THE WIRE TROUGH UTILIZING 2 SETS OF # 3/0. THIS WIRE TROUGH FEEDS ALL EXISTIING POWER DISTRIBUTION SYSTEM.

16. CU-1, CU-7, CU-3, CU-8: TWIN UNITS EACH, MCA: 43A EACH UNIT OF EACH CU'S, MOCP: 50A EACH UNIT OF EACH CU'S. PROVIDE 3 #2, 1 #6G IN 1 1/2" C FROM DESIGNATED PANELBOARDS TO WEATHERPROOF JUNCTION BOX. PROVIDE 3 #6, 1 #8G IN 3/4" C FROM JUNCTION BOX TO EACH DISCONNECT AND TO THE UNIT PER TAP RULE.

17. CU-5, CU-9 : TWIN UNITS EACH, MCA: 30A AND 43A FOR UNIT #1 AND UNIT #2 OF EACH CU'S, MOCP: 35A AND 50A FOR UNIT #1 AND UNIT #2 OF EACH CU'S, RESPECTIVELY. PROVIDE 3 #3,1 #8G IN 1 1/4"C FROM DESIGNATED PANELBOARDS TO EACH WEATHERPROOF JUNCTION BOX PROVIDE 3 # 8, 1 #10G IN 3/4" C FROM JUNCTION BOX TO 35A FUSED DISCONNECT SWITCH OF EACH CU'S, AND TO THE UNITS. PROVIDE 3 #6, 1 #8G IN 3/4"C FROM JUNCTION BOX TO 50A FUSED DISCONNECT SWITCH OF EACH CU'S, AND TO THE UNITS.

18. CU-2: SINGLE UNIT, MCA: 30A. MOCP: 35A. PROVIDE 3 # 8, 1 #10G IN 3/4" C FROM DESIGNATED PANELBOARD.

19. CU-4: TWIN UNIT: MCA: 36.1A AND 28.8A, MOCP: 50A, AND 40A. PROVIDE 3 #3, 1 #8G IN 1 1/4"C FROM DESIGNATED PANELBOARD TO WEATHERPROOF JUNCTION BOX. PROVIDE 3#8, 1 #10G IN 3/4" C FROM JB TO 40A FUSED DISCONNECT AND THE UNIT. PROVIDE 3 #6, 1 #8G IN 3/4" FROM JUNCTION BOX TO 50A FUSED DISCONNECT AND TO THE UNIT.

20. CU-10 AND CU-6: SINGLE UNITS, MCA: 72.2A, MOCP: 80A. PROVIDE 3 #3, 1 #8G IN 1 1/4"C.

21. UNIT WILL BE ON GRADE LEVEL.

DATE	DESCRIPTION

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PARK VIEW ELEMENTARY SCHOOL
PHASE 1 Modernization

PREPARED FOR
DISTRICT OF COLUMBIA PUBLIC SCHOOLS
DEPARTMENT OF GENERAL SERVICES

DRAWING TITLE
ELETRICAL RISER DIGRAM/ FIRE ALARM MATRIX

DISCIPLINE	DRAWING NUMBER
SCALE	
DATE SEPTEMBER 25, 2014	
DRAWN BY	E1.02
CHECKED BY	
SORG PROJECT # 1411	

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Exhibit 2

DCAM-17-CS-0023
Bruce-Monroe at Park View Elementary School Design-Build
Questions

No.	Question	Response
1.	The condition of the existing roof of the building is unknown and we were not able to verify its condition during the walkthrough. Can you confirm whether the replacement of the existing roof is not in the scope of work?	Partial or total replacement of the existing roof is not part of this scope of work.
2.	Are any technology infrastructure upgrades anticipated outside of the scope of work areas?	No.
3.	B.2.2 Concept Design lists the following deliverables and services: • Environmental Impact Screening Form • Phase I Archeological survey • Hydrant Flow Test • Geotechnical Survey • Updated property survey • Traffic and parking survey Were any of the above listed items performed as a part of the Phase I renovations? If so, is the intent of the RFP to have the Design-Build team to provide all new studies or would reuse of the 2012 versions be acceptable to reduce costs to the District?	No. See Sections B.2.2.1 and B.2.2.2 of the RFP.
4.	As a part of the Phase I scope of work, was a hazardous materials report prepared?	No. See Sections B.1, B.2, B.2.5.2, B.2.5.3.4 and B.7.1.16
5.	Is archaeological scope or work to be restricted to the area of anticipated excavation under the kitchen expansion, and the parking area to the rear of the kitchen?	Yes.
6.	The projected notice to proceed is Jan 27, 2017 and, per B.2.2, the archaeological study is to be delivered as a part of the concept design submission, which is scheduled for March 30, 2017. Given conditions in the school and the areas to be surveyed- it is unlikely survey can be undertaken while school is in session, which conflicts with the schedule proposed by DGS. How does DGS recommend this conflict be resolved?	Please see Amendment 3, Item # 1
7.	Was an archaeological study conducted as part of the 2012 modernization project?	No.

No.	Question	Response
8.	If not, has DGS consulted the DC Archaeologist Office to request a screening report? If so, can DGS make it available to the bidders prior to the bid submittal?	No. DGS has not contacted the Office of Planning.
9.	If they have consulted the DC Archaeologist her office will have issued a screening report which Can you include an inquiry about the screening report in your questions to DGS?	No. DGS has not contacted the Office of Planning.
10.	Are there plans available that show the current cafeteria layout with the elevator? The provided documentation does not show the elevator in the cafeteria.	Please see Amendment 3, Item # 2
11.	Are there additional civil drawings available?	No.
12.	Are full civil services anticipated for the project that include full site topographic, utility, and boundary surveys?	Bidder shall include civil engineering design services necessary to obtain a building permit and complete the Scope of Work.
13.	In regards to program within the existing cafeteria, will the current offices and book storage be moved to a different area of the school? Should those be added to the scope?	Please see Amendment 3, Item # 1
14.	If for any reason the Design-Build team plans on proposing a different scheme to the one provided in the RFP, should said design be submitted as part of the proposal?	No. The successful Design-Builder will have the opportunity to propose alternate plans during the concept phase.
15.	Is the safer route to the recreational center (discussed during the site visit) part of the current scope?	No.
16.	Based on discussions during the site visit, there will not be sufficient space for On-Site Offices during construction. Where will said Offices be located?	DGS and DCPS will work with the Design-Builder to find a suitable location for a jobsite office either inside the existing building or adjacent to the existing cafeteria wing.
17.	Was the electrical system of the school upgraded as part of the 2012 modernization? If so, are there any drawings?	Please see Attachment B in the RFP
18.	Will this project require LEED certification? If so, what is the level of certification required?	This project will not require LEED certification.
19.	Is fire protection (sprinklers) required as part of the scope of work? If so, can you confirm whether or not a new water service will be required to be brought into the building from the street?	Please see Amendment 3, Item # 1
20.	Can you confirm that existing electrical service into the building is adequate for the proposed scope of work?	Please see Amendment 3, Item # 1