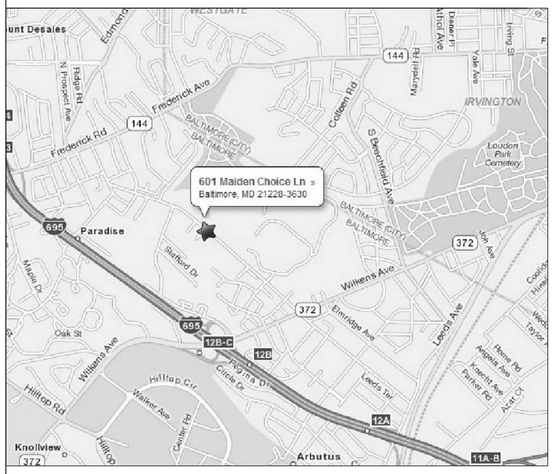
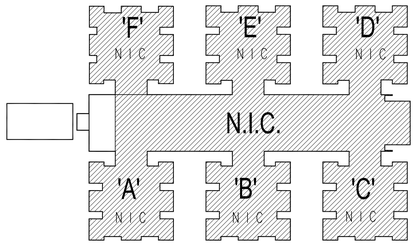
LOCATION MAP



KEY PLAN



ST. MARTIN'S HOME

RENOVATIONS TO LOBBY & CANOPY

LITTLE SISTERS OF THE POOR
601 MAIDEN CHOICE LANE
BALTIMORE, MARYLAND 21228

GAUDREAU, INC.
810 LIGHT STREET
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8833 BELAIR ROAD
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Mechanical, Electrical and Plumbing Consultant

CAM CONSTRUCTION
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Construction Manager

SKARDA ASSOCIATES, Inc
2439 NORTH CHARLES STREET
BALTIMORE, MD 21218
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Structural Consultant

ARCHITECTURAL ABBREVIATIONS

A	
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ADMIN	ADMINISTRATION
APC	ACOUSTICAL PANEL CLG
ADJ	ADJUSTABLE; ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
ASSY	ASSEMBLY
ASV	ARCHITECTURAL STONE VENEER
AVG	AVERAGE
B	
BB	BULLETIN BOARD
BC	BOOKCASE
BD	BOARD
BEJ	BRICK EXPANSION JOINTS
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BOT	BOTTOM
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
C	
CAB	CABINET
CD	CONSTRUCTION DOCUMENTS
CER	CERAMIC
CG	CORNER GUARD
CH BD	CHALKBOARD
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CS	CAST STONE
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER
D	
D	DEEP; DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFERENCE
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION
DW	DEIONIZED WATER
DMPF	DAMPPROOFING
DOC	DOCUMENT
DR	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E	
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION + FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EMERH	ELECTROMAGNETIC HOLDER
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXT	EXTERIOR; EXTINGUISHER
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
F	
FC	FILE CABINET
FC BRK	FACE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CAB
FF&E	FURNITURE, FIXTURE & EQUIPMENT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN FLR	FINISH FLOOR
FLG	FLOORING
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FLOUR	FLUORESCENT
FOW	FACE OF WALL
FP	FIRE PROTECTION
FRMG	FRAMING
FRT	FIRE RESISTANT TREATED
FRZ	FREEZER
FT	FEET OR FOOT
FTG	FOOTING
FURN	FURNITURE
G	
GA	GAGE
GALV	GALVANIZED
GEN	GENERAL
GL	GLASS
GYP BD	GYPSUM BOARD
GFRC	GLASS FIBER REINFORCED CONCRETE
H	
H	HIGH
H&CW	HOT AND COLD WATER
HAZ MAT	HAZARDOUS MATERIALS
HB	HOSE BIBB
HC	HOLLOW CORE
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HSKPG	HOUSEKEEPING
HT	HEIGHT
HVAC	HEATING, VENTILATING AND A/C
HW	HOT WATER
HWY	HIGHWAY
I	
ID	INSIDE DIAMETER; IDENTIFICATION
INCL	INCLUDED
INFO	INFORMATION

INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
K	
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICK PLATE
L	
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET (FOOT)
LH	LEFT-HAND
LIB	LIBRARY
LIN	LINEAR
LL	LOWER LEVEL
LOC	LOCATION
LPT	LOW POINT
LT	LIGHT
LT GA	LIGHT GAGE
LT WT	LIGHTWEIGHT
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
M	
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MTL	METAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MGT	MANAGEMENT
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MEETING
MTL	METAL
N	
	NORTH
NA	NOT APPLICABLE
NATL	NATIONAL
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
O	OXYGEN
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH DR	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPNG	OPENING

OPP	OPPOSITE
OPT	OPTION; OPTIONAL
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OZ	OUNCE
P	
PAR	PARALLEL
PART	PARTIAL
PAT	PATTERN
PERP	PERPENDICULAR
PH	PENTHOUSE
PKG	PACKAGE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER; PLASTIC
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PRKG	PARKING
PRELIM	PRELIMINARY
PREP	PREPARATION
PREV	PREVIOUS
PROJ	PROJECT
PSI	POUNDS PER SQ IN
PTN	PARTITION
Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
QUAD	QUADRANT
R	
R	RISER; RADIUS
R&D	RESEARCH & DEVELOPMENT
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN; ROAD
REBAR	REINFORCING STEEL BARS
REF	REFRIGERATOR; REFERENCE
REINF	REINFORCE
RESIL	RESILIENT
REST	RESTROOM
REQD	REQUIRED
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
RWL	RAIN WATER LEADER
S	
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SD	STORM DRAIN
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SK	SKETCH
SPEC	SPECIFICATION
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCH
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE

STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMBOL
SYMM	SYMMETRICAL
T	
T	TREAD
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TO_	TOP OF ____
TOC	TOP OF CONC
TOM	TOP OF MASONRY
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL; TOP OF SLAB
TOW	TOP OF WALL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
U	
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	
VAC	VACUUM
VAR	VARIES
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT TO ROOF
VWC	VINYL WALL COVERING
W	
W	WEST; WIDE
W/	WITH
W/O	WITHOUT
W/O	WITHOUT
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WEEP HOLE
WHSE	WAREHOUSE
WP	WATERPROOFING; WORKING POINT
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
X	
XFMR	TRANSFORMER
Y	
YD	YARD

MATERIALS (UON)

CMU

BRICK

CONCRETE

GRAVEL; CRUSHED ROCK

INSULATION, BATT

INSULATION, RIGID

METAL

PLYWOOD

SAND / MORTAR

EARTH

WOOD, FINISH

WOOD, BLOCKING

SYMBOLS

SPOT ELEVATION OR LEVEL ELEVATION

COLUMN GRID

ROOM NAME AND NUMBER

DOOR OPENING/BORROWED LIGHT

KEYNOTE

PARTITION WALL TYPE

WINDOW TYPE

LOUVER TYPE

REVISION

FURNITURE, FIXTURE & EQUIPMENT

EXTERIOR ELEVATION; WALL SECTION; BLDG SECTION

INTERIOR ELEVATION

INTERIOR ELEVATION MULTIPLE VIEWS

DETAIL INDICATOR, ENLARGEMENT

AND

ANGLE

AT

CENTERLINE

CHANNEL

DIAMETER OR ROUND

PERPENDICULAR

PLATE

POUND OR NUMBER

SQUARE FEET

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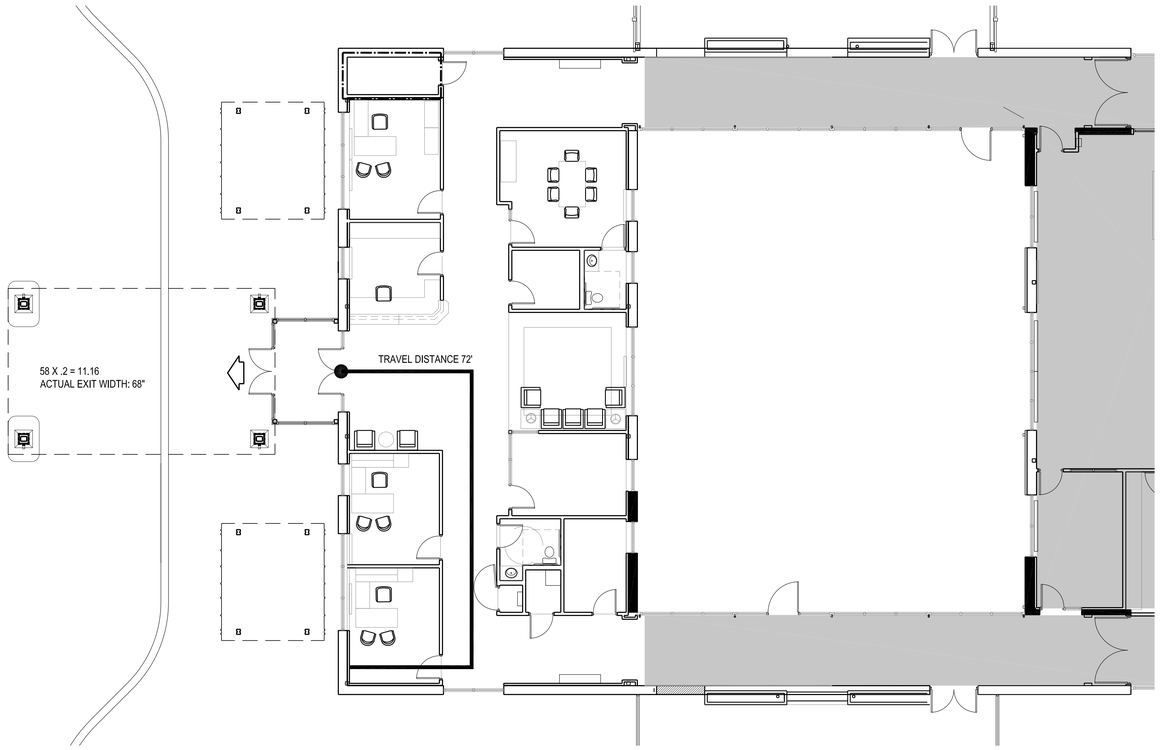
REVISIONS

NO	DATE	DESCRIPTION
01	05/05/2017	CONSTRUCTION DOCUMENTS

PROJECT NO: 17000.00

DATE: 05/05/17

G-001



C1 FIRST FLOOR FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

KEY:

- FIRE WALL-2HR
- ONE HOUR WALL
- 1/2 HOUR WALL
- SMOKE PARTITION
- EXISTING - NIC
- AREA OF WORK

C4 FIRST FLOOR FIRE PROTECTION PLAN
SCALE: 1/32" = 1'-0"

NORTH

PROJECT DESCRIPTION

ST. MARTIN'S HOME/LITTLE SISTERS OF THE POOR IS APPROXIMATELY 202,246 GSF INCLUDING TWO FULL FLOORS ABOVE GRADE AND THE MAJORITY OF THE LOWER LEVEL BELOW GRADE.

THE BUILDING CONSISTS OF A "MAIN STREET" WITH SHARED SPACES AND (6) FIRE-SEPARATED COTTAGES OF ASSORTED USES (SEE TABLE BELOW) THIS PROJECT SCOPE IS A REHABILITATION AND RENOVATION OF THE FRONT LOBBY & CANOPY INCLUDING NEW ROOF/ STRUCTURE WITH INCREASED R-VALUE, NEW ENERGY EFFICIENT WINDOWS, PERIMETER INSULATION, AND ADA UPGRADES.

APPLICABLE CODES

1. 2015 IEBC - INTERNATIONAL EXISTING BUILDING CODE; SECTION 402 - ADDITIONS
2. 2015 IBC - INTERNATIONAL BUILDING CODE
3. 2015 IMC - INTERNATIONAL MECHANICAL CODE
4. 2014 NEC - NATIONAL ELECTRIC CODE w/ AMENDMENTS BILL 40-15
5. 2015 NATIONAL STANDARD PLUMBING CODE w/ LOCAL AMENDMENTS BILL 41-15
6. 2015 IECC - INTERNATIONAL ENERGY CONSERVATION CODE w/ AMENDMENTS BILL 40-15
7. 2012 NFPA 1 - FIRE PREVENTION CODE w/ LOCAL ADOPTED & AMENDED CODES, BILL 63-13
8. 2012 NFPA 13 - INSTALLATION OF SPRINKLER SYSTEMS
9. 2012 NFPA 72-99 NATIONAL FIRE ALARM CODE
10. 2012 NFPA 101 - LIFE SAFETY CODE w/ LOCAL AMENDMENTS BILL 63-13
11. COMAR 05.02.02 ADA/ADAAG 2010 MARYLAND ACCESSIBILITY CODE

BUILDING USE & TYPE OF CONSTRUCTION

OCCUPANCY TYPE: SEPARATED MIXED USE OCCUPANCIES

CURRENT PROJECT SCOPE: IBC 304: BUSINESS
EXISTING BUILDING (SEPARATED): IBC 302: RESIDENTIAL (R), INSTITUTIONAL (I), ASSEMBLY (A), STORAGE (S), BUSINESS (B)

SPACE	OCCUPANCY	CLASSIFICATION	ALLOW. STORIES
COTTAGE A	ASSISTED LIVING	I-1 (COND. 2)	3 STORIES
COTTAGE B	SKILLED NURSING	I-2	1 STORY
COTTAGE D, E & F	INDEPENDENT LIVING	R-2	5 STORIES
COTTAGE C	ADMIN/MEDICAL	B	4 STORIES
CORE-1ST FLOOR	ASSEMBLY/CONVENT	R-2 (B, A-3)	3 STORIES
CORE-1ST FLOOR	ASSEMBLY/ BUSINESS	A-3 (B)	3 STORIES
2ND FLOOR	CONVENT	R-2 (B, A-3)	5 STORIES
LOWER LEVEL	OFFICE/ASSEMBLY	B (A-3)	4 STORIES

(ACCESSORY USE)

TYPE OF CONSTRUCTION:

IBC TABLE 601 - TYPE IIB, NONCOMBUSTIBLE MATERIALS, UNPROTECTED

ALLOWABLE HEIGHT AND BUILDING AREA:

OCCUPANCY GROUP B, CONSTRUCTION TYPE II B w/ AUTOMATIC SPRINKLER SYSTEM

IBC TABLE 504.3: ALLOWABLE HEIGHT: 75 FEET, ACTUAL HEIGHT: 16'-8"
IBC TABLE 504.4: ALLOWABLE STORIES: 5, ACTUAL STORIES: 1
IBC TABLE 506.2: ALLOWABLE AREA: 92,000 SF
ACTUAL AREA: FIRST FLOOR - 40,269 SF (EXCLUDING COTTAGES SEPARATED BY 2 HOUR FIRE WALLS)
AREA OF WORK: 3021 SF

EXTERIOR WALL FIRE RATING:

ACTUAL DISTANCE BETWEEN EXTERIOR WALLS: 50 FT.
IBC TABLE 602 FIRE RATINGS BASED ON DISTANCE - GREATER OR EQUAL TO 30 FT = 0
IBC TABLE 705.8 MAXIMUM AREA OF OPENINGS - 30 FT OR GREATER = NO LIMIT

OCCUPANCY CALCULATIONS:

IBC 2015 (TABLE 1004.1.2):
BUSINESS USE

OCCUPANCY	AREA SF	SF/OCCUPANT	TOTAL
BUSINESS	3021 SF	100 GROSS	31

CONSTRUCTION CLASSIFICATION:

IBC TABLE 601 - FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS:

ELEMENT	TYPE IIB
STRUCTURAL FRAME	0
EXTERIOR BEARING WALL	0
EXTERIOR NONBEARING WALL	0
INTERIOR BEARING WALL	0
INTERIOR NONBEARING WALL	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

COMBUSTIBLE MATERIAL IN TYPE II CONSTRUCTION:

IBC SECTION 603

1. FIRE-RETARDANT-TREATED WOOD SHALL BE ALLOWED IN:
   - NONBEARING PARTITIONS w/ LESS THAN 2 HR RATING
   - NONBEARING EXTERIOR WALLS WITH NO FIRE RATING
   - ROOF CONSTRUCTION
2. THERMAL & ACOUSTIC INSULATION WITH A FLAME SPREAD LESS THAN 25
3. FOAM PLASTICS IN ACCORD w/ IBC CHAPTER 26
4. ROOF COVERINGS OF A, B, & C CLASSIFICATIONS
5. INTERIOR WOOD FLOORS, PANELING, TRIM, DOORS, ETC.; PLATFORMS PER IBC 410
6. BLOCKING FOR HANDRAILS, CABINETS, WINDOW & DOOR FRAMES
7. MASTICS AND SEALANTS
8. NAILING AND FURRING STRIPS

FIRE-RESISTANCE RATING REQUIREMENTS:

IBC 2015, TABLE 706.4, 707.3.10 BUILDING FIRE RATINGS:

TABLE 706.4	FIRE WALLS	GROUP B	**2
TABLE 707.3.10	FIRE BARRIER ASSEMBLIES	GROUP R	2
708.3	FIRE-RESISTANCE RATINGS	GROUP B	N/A
1020.1	CORRIDORS	GROUP B	0

*GLAZING IN EXIT DOORS, FIRE RESISTIVE GLASS, MAX 100 SQ. IN. AREA
*FIRE DOORS SHALL BE SELF-CLOSING
*FIRE DOORS SHALL BE SECURED w/ LATCH WHEN CLOSED
**REDUCED FROM 3 HOUR DUE TO SPRINKLER SYSTEM

- IBC TABLE 1505.1 - MINIMUM ROOF CLASSIFICATION: II B CONSTRUCTION - CLASS C ROOF: ROOFS EFFECTIVE AGAINST LIGHT FIRE-TEST EXPOSURE. ROOF ASSEMBLIES AND COVERINGS SHALL BE LISTED AND IDENTIFIED AS CLASS C BY APPROVED TESTING AGENCY.

INTERIOR FINISH REQUIREMENTS:

IBC 2015 TABLE - 803.11 INTERIOR WALL & CEILING FINISHES:

ELEMENT	GROUP
	B
VERTICAL EXITS & PASSAGEWAYS:	B
CORRIDORS:	B
ROOMS & ENCLOSED SPACES:	C

IBC 804.1 INTERIOR FLOOR FINISHES:

IBC 804.1 CLASS II
IBC 804.4.2, EXCEPTION: FINISH MAY COMPLY WITH DOC FF-1 'PILL' TEST

FIRE PROTECTION SYSTEM REQUIREMENTS:

- PROTECTION SYSTEMS SHALL BE INSTALLED, REPAIRED, OPERATED AND MAINTAINED IN ACCORDANCE WITH IBC 2015
- SUPERVISORY SERVICE, IBC 901.6,1: AUTO. SPRINKLER SYSTEMS SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION.
- SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13

	REQUIRED	IBC 2015	NFPA 2012	PROVIDED
AUTOMATIC SPRINKLERS:	YES	903	9.7.1.1	YES
ALT. AUTOMATIC FIRE SPRINKLER:	NO*	904	9.7.3.1	NO
STANDPIPE SYSTEM:	NO**	905	9.7.4.2	NO
PORTABLE FIRE EXTINGUISHERS:	YES	906	9.7.4.1	YES
FIRE ALARM SYSTEM:	YES	907	9.6.7.1	YES
SMOKE CONTROL SYSTEM:	NO	909	9.3.1	NO

** STANDPIPES, IBC 905: NOT REQUIRED DUE TO BUILDING HT. PORTABLE FIRE EXTINGUISHERS, IBC 906: LOCATE & INSTALL PER NFPA 10 FIRE ALARM & DETECTION SYSTEM, IBC 907: WHERE REQUIRED, IBC 907.2: GROUP B - NOT REQUIRED DUE TO OCCUPANCY LOAD

MEANS OF EGRESS:

MAXIMUM TRAVEL DISTANCE TO EXIT:

		USE GROUP B
IBC-2015 (TABLE - 1017.2)	w/ SPRINKLER	300'
NFPA - 2012 (TABLE A7.6)	w/ SPRINKLER	300'
PROVIDED	w/ SPRINKLER	72' MAX

COMMON PATH OF EGRESS TRAVEL:

		USE GROUP B
IBC-2015 (1006.3.2)	w/ SPRINKLER	75'
NFPA - 2012 (TABLE)	w/ SPRINKLER	100'

CORRIDOR WIDTH REQUIREMENTS:

	REQD.	PROVIDED
IBC-2015 (1020.2)	44" MIN.	84" MIN
NFPA - 2012 ()	44" MIN.	84" MIN

DEAD END CORRIDORS:

USE GROUP:		B	PROVIDED
IBC-2015 (1020.4)	w/ SPRINKLER	50'	NONE
NFPA - 2012 (TABLE A.7.6)	w/ SPRINKLER	50'	

EGRESS WIDTH PER OCCUPANT:

(IBC 1005.1, NFPA 101 7.3.3.1- NFPA GOVERNS):

	REQUIRED		PROVIDED	
	STAIRS	OTHER EGRESS	STAIRS	OTHER EGRESS
	0.3"	0.2"		
LOBBY/ OFFICE	NA	15"	NA	68"

PANIC HARDWARE

PANIC HARDWARE IS NOT REQUIRE DBUT WILL BE PROVIDED

ACCESSIBLE TOILETS AND UNITS:

SPACE	OCCUPANCY	GROUP	ACCESSIBLE		
LOBBY	BUSINESS	B	100% UNISEX		

* FREE-STANDING WATER COOLERS TO BE PROVIDED

ENTRANCE CANOPY

1. 12'-0' CLEAR HEIGHT X 16'-0' CLEAR WIDTH IS PROVIDED FOR EMERGENCY (AMBULANCE) ACCESS PER DISCUSSIONS WITH AHJ.
2. ACCESS AROUND THE BUILDING SHALL REMAIN AS EXISTING FOR FULL FIRE DEPARTMENT ACCESS.
3. ENTRANCE CANOPY IS FREE STANDING FROM THE BUILDING. CONSTRUCTION IS NON-COMBUSTIBLE WITH ENGINEERED WOOD TRIM FOR DECORATIVE PURPOSES.
4. ENTRANCE CANOPY WILL BE PROVIDED WITH A DRY SPRINKLER SYSTEM

Little Sisters of the Poor

601 Maiden Choice Lane
Baltimore, MD 21228

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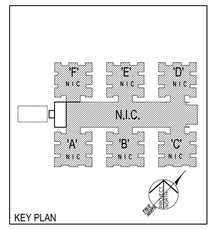


KEY PLAN

Gaudreau, Inc.
ARCHITECTS I PLANNERS
810 Light Street | Baltimore | Maryland 21230
410 . 837 . 5040 | www.gaudreauinc.com

Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland.
License No: 9473 Expiration Date: 08/03/18

CONSTRUCTION DOCUMENTS

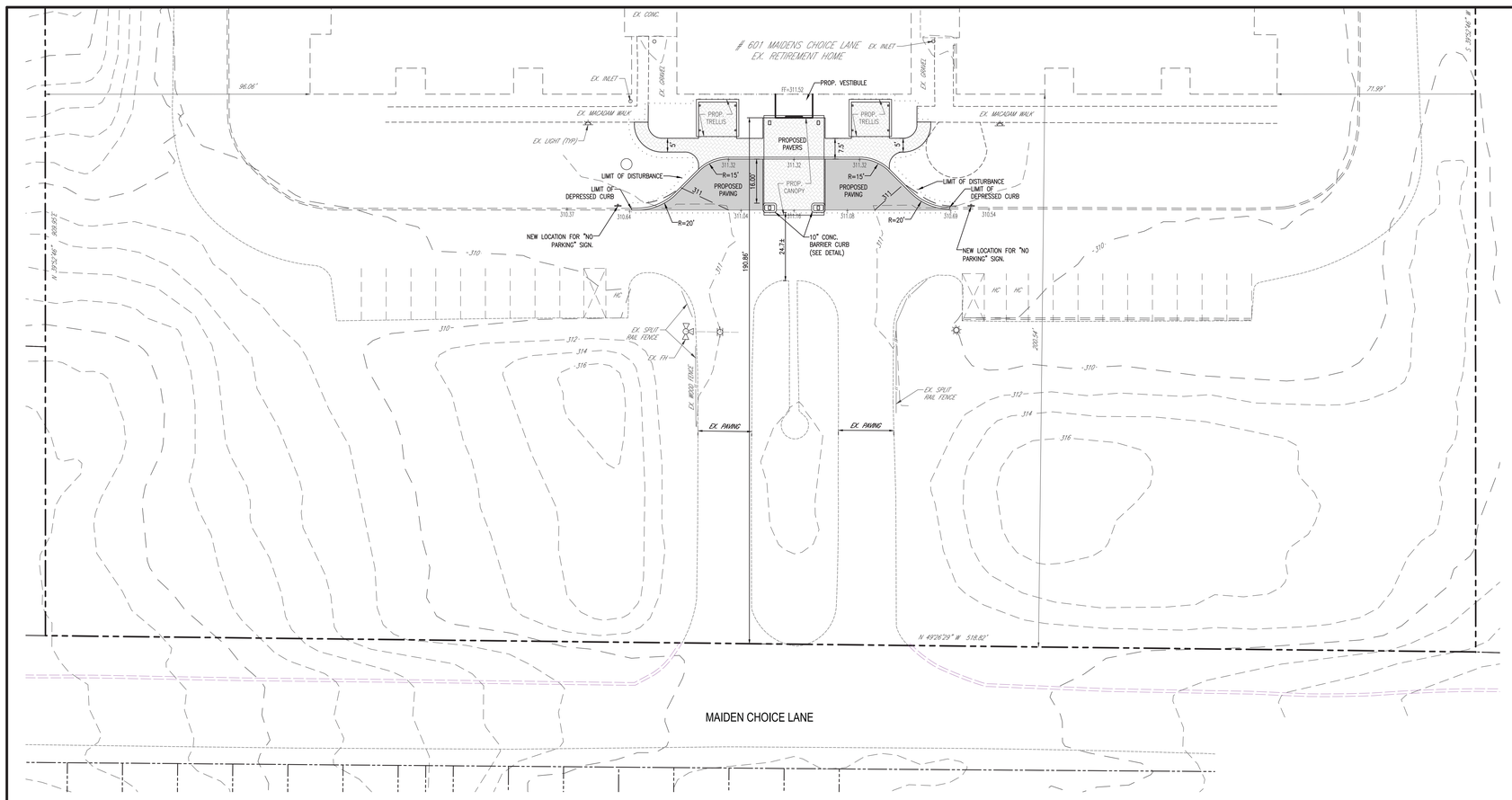
Number	Description	Date

Date: 05/01/17

Project Number: 17000.00

FIRE PROTECTION PLAN AND CODE ANALYSIS

G-002



PLAN

SCALE: 1" = 20'

LOCATION MAP

SCALE: 1" = 1,000'

GENERAL NOTES

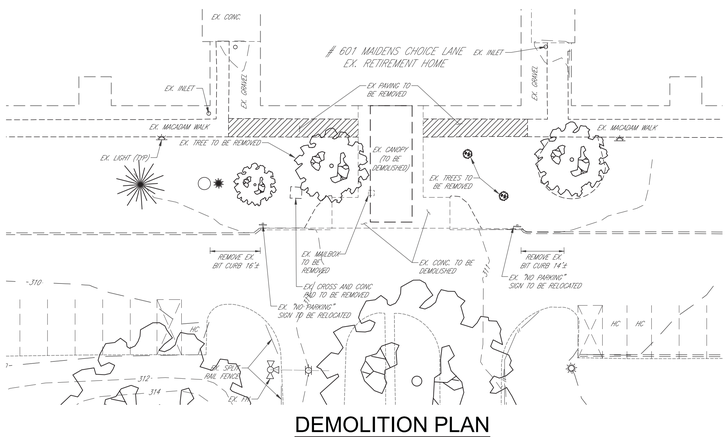
1. OWNER: LITTLE SISTERS OF THE POOR
   601 MAIDENS CHOICE LANE
   BALTIMORE, MARYLAND 21228
2. SITE AREA:
   NET: 550,160 SF OR 12.63 AC.±
   GROSS: 560,560 SF OR 12.87 AC.±
3. DEED REF: 4692/0047
4. TAX ACCOUNT: #0112401720
5. COUNCILMANIC DISTRICT: 1ST
6. ELECTION DISTRICT: 1ST
7. CENSUS TRACT: 400100
8. WATERSHED: PATAPSCO RIVER
9. THIS SITE IS SERVED BY PUBLIC WATER AND SEWER.
10. TAX MAP #101, GRID #10, PARCEL #440
11. ZONING: DR5.5 (PER 1"=200' ZONING MAP 101B2 & 101C2)
12. BUILDING AREAS:
    EXISTING: 128,475 SF
    PROPOSED: 128,591 SF
13. PARKING
    CONSTRUCTION IS LIMITED TO INTERIOR REHAB AND REPLACEMENT OF COVERED ENTRANCE CANOPY AND ENTRANCE VESTIBULE. NO CHANGE TO PARKING IS PROPOSED.
14. PRIOR ZONING HISTORY:
    CASE #: 66-210X: SPECIAL EXCEPTION TO CONSTRUCT A CONVALESCENT HOME. APPROVED MARCH 3, 1966.

    CASE #: 08-285-SPHXA: SPECIAL EXCEPTION TO ALLOW A NURSING HOME IN A DR5.5 ZONE, SPECIAL HEARING PURSUANT TO SEC 500.7 OF THE B.C.Z.R TO APPROVE THE COMPATIBILITY ANALYSIS TO PERMIT MULTI-FAMILTY DWELLING UNITS FOR INDEPENDENT LIVING AND VARIANCES TO PERMIT A BUILDING LENGTH OF 510 FEET IN LIEU OF THE PERMITTED LENGTH OF 200 FEET AND TO PERMIT A SIDE SETBACK OF 26 FEET IN LIEU OF THE REQUIRED 30 FEET AND TO PERMIT A BUILDING HEIGHT OF 64 FEET IN LIEU OF THE MAXIMUM PERMITTED BUILDING HEIGHT OF 50 FEET. GRANTED MARCH 19, 2008.
15. NO KNOWN PERMITS ON FILE.
16. THE PROPERTY AND STRUCTURES ARE NOT HISTORIC.
17. THE SITE DOES NOT LIE WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
18. USES
    EXISTING: 128,475 SF ONE (1) RETIREMENT HOME.
    PROPOSED: 128,591 SF ONE (1) RETIREMENT HOME.
19. SETBACKS FOR DR5.5

TYPE	REQUIRED
FRONT	40'
SIDE	20'
REAR	30'

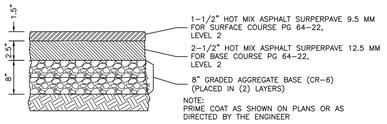
20. ANY PROPOSED SIGNS MUST CONFORM TO B.C.Z.R.
21. BOUNDARY AND TOPOGRAPHY SHOWN HEREON IS TAKEN FROM A SURVEY PERFORMED BY THOMPSON AND ASSOCIATES INC.

DISTURBED AREA:
4,100 SF. or 0.094 AC.±



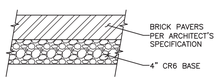
DEMOLITION PLAN

SCALE: 1" = 20'



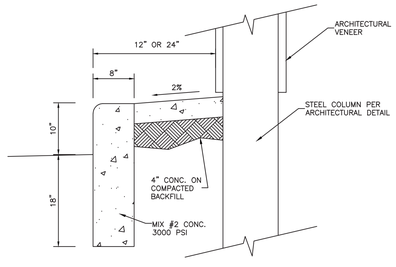
ASPHALT PAVING SECTION

NOT TO SCALE



BRICK PAVING SECTION

NOT TO SCALE



10" BARRIER CURB DETAIL

NOT TO SCALE

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 16597, EXPIRATION DATE: 08-15-2017

STATE OF MARYLAND — STEPHEN C. RICHARDSON — NO. 16597 — PROFESSIONAL ENGINEER

Richardson Engineering, LLC

30 East Padonia Road, Suite 500
Timonium, Maryland 21093
Phone: 410-560-1502 Fax: 443-901-1208

SITE PLAN TO ACCOMPANY BUILDING PERMIT

ST. MARTIN'S

601 MAIDENS CHOICE LANE

4TH ELECTION DISTRICT BALTIMORE COUNTY, MARYLAND

REVISIONS	DRAWN BY:	CHECKED BY:	SCALE:
	DNM	DNM	1" = 20'
	DATE:	JOB NO.:	SHEET NO.:
	04-21-17	17031	1 OF 1

General Notes

1.1 DESIGN LOADS

A. THE STRUCTURE WAS DESIGNED FOR THE LIVE LOADS SHOWN BELOW AND DEAD LOADS AS REQUIRED BY CONSTRUCTION IN ACCORDANCE WITH IBC 2015. LOADS DUE TO SNOW LOAD BUILD-UP WERE CONSIDERED IN DESIGN OF STRUCTURAL COMPONENTS ADJACENT TO PARAPETS, HIGH BUILDING WALLS, ETC. INCREASE IN THESE LOADINGS, DUE TO CHANGE IN FUNCTION, CONSTRUCTION MATERIALS, ETC., TO HAVE WRITTEN APPROVAL FROM THE DESIGNING STRUCTURAL ENGINEER.

B. MECHANICAL UNITS WITH WEIGHTS SHOWN IN PLAN AND SUPPORTED BY THE STRUCTURE WERE CONSIDERED IN THE DESIGN OF THE STRUCTURE. ADDITIONAL MECHANICAL EQUIPMENT NOT SHOWN ON STRUCTURAL DRAWINGS AND HAVING A WEIGHT IN EXCESS OF 400 POUNDS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

D. LIVE LOADS SHOWN BELOW ARE IN POUNDS PER SQUARE FOOT (PSF).

ROOF LIVE LOAD:	30	GROUND SNOW LOAD (PG):	30
FLOOR LIVE LOAD:	100	FLAT ROOF SNOW LOAD(PF):	25
CORRIDORS & STAIRS:	100	SNOW LOAD IMPORTANCE FACTOR:	1.0
		SNOW EXPOSURE FACTOR (Ce):	1.0
		THERMO FACTOR (Ct):	1.0

E. WIND CRITERIA:
ULTIMATE DESIGN WIND SPEED: 115 MPH (3 SECOND GUST)
NOMINAL DESIGN WIND SPEED: 90 MPH (3 SECOND GUST)
RISK CATEGORY: II
WIND EXPOSURE CATEGORY: B
INTERNAL PRESSURE COEFFICIENT: +/- 0.18

F. SEISMIC CRITERIA:

RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR, Ie: 1.0
SITE CLASS: D
SEISMIC DESIGN CATEGORY: B
Ss = 0.175 Sds = 0.165
S1 = 0.051 Sd1 = 0.082
BASIC SEISMIC FORCE-RESISTING SYSTEM: OSMF
DESIGN BASE SHEAR: 0.124W
SEISMIC RESPONSE COEFFICIENT, Cs: 0.124
RESPONSE MODIFICATION COEFFICIENT, R: 1.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

1.2 SHORING

A. PROVIDE SHORING AS REQUIRED TO MAINTAIN STABILITY OF THE STRUCTURE, ADJACENT UTILITIES, CONSTRUCTION, AND EMBANKMENTS DURING THE CONSTRUCTION PERIOD. STRENGTH AND PLACEMENT OF SHORING IS TOTALLY THE RESPONSIBILITY OF THE CONTRACTOR.

1.3 EXISTING CONDITIONS

A. EXPOSE EXISTING FRAMING AND NOTIFY ARCHITECT PRIOR TO INSTALLATION OF NEW FRAMING.

B. CONTRACTOR MUST FIELD CHECK AND VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING WORK PRIOR TO FABRICATION OF NEW MATERIALS.

1.5 SUBMITTALS

A. BEFORE SUBMISSION OF SHOP DRAWINGS, CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS, AND SIMILAR DATA WITH RESPECT THERETO AND REVIEWED OR COORDINATED EACH SHOP DRAWING WITH OTHER SHOP DRAWINGS AND SAMPLES AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.

B. AFTER CHECKING AND VERIFYING COMPLIANCE WITH CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, CONTRACTOR SHALL SUBMIT, FOR REVIEW, SHOP DRAWINGS REFERENCED IN THE INDIVIDUAL MATERIALS SECTIONS. CONTRACTOR SHALL STAMP OR PROVIDE A SIMILAR WRITTEN INDICATION THAT CONTRACTOR HAS REVIEWED THE SUBMISSION AND IS SATISFIED THAT MATERIALS SHOWN ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

C. A REVIEW PERIOD OF 5 WORKING DAYS WILL BE REQUIRED FOR SHOP DRAWING REVIEW, OF EACH UNIT TYPE. SHOP DRAWING SUBMISSION OF MULTIPLE COMPONENT TYPES WILL REQUIRE ADDITIONAL REVIEW TIME. SHOP DRAWINGS WILL BE FORWARDED TO ARCHITECT OR CLIENT FOR THEIR REVIEW BEFORE RETURNING TO THE CONTRACTOR.

2.1 DEMOLITION

A. DEMOLITION INCLUDES CONTROLLED DESTRUCTION OF STRUCTURES AND THE REMOVAL AND DISPOSAL OF DEMOLISHED MATERIALS AS SHOWN ON THE DRAWINGS AND INCLUDED IN THESE NOTES.

B. PERFORM DEMOLITION IN SECTIONS SMALL ENOUGH TO PREVENT DAMAGE OF MATERIALS, FACILITIES OR EMBANKMENTS TO REMAIN IN PLACE.

C. PROVIDE ADEQUATE SHORING, BRACING AND PROTECTION TO PREVENT MOVEMENT, SETTLEMENT, COLLAPSE OR DAMAGE TO EXISTING MATERIALS, FACILITIES OR EMBANKMENTS TO REMAIN. SUBMIT COMPLETE DETAILS OF SHORING PROCEDURES SIGNED BY A PROFESSIONAL ENGINEER (registered in the jurisdiction where project is located) PRIOR TO BEGINNING WORK.

D. PROMPTLY REPAIR DAMAGES CAUSED BY THE DEMOLITION TO ADJACENT FACILITIES, MATERIALS OR EMBANKMENTS AT NO COST TO THE OWNER.

E. PROMPTLY REMOVE FROM SITE AND PROPERLY DISPOSE OF DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM THE DEMOLITION.

2.3 FOUNDATIONS

A. A SOIL BEARING CAPACITY OF 3000 P.S.F. WAS USED FOR FOOTING DESIGN. IF SOIL OF THIS CAPACITY IS NOT ENCOUNTERED AT ELEVATIONS INDICATED, INCREASE FOOTING SIZE OR LOWER AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

B. INSTALL EXTERIOR FOOTING BOTTOMS 2'-6" MINIMUM BELOW FINISH GRADE.

C. CAM TO PROVIDE GEOTECH AND CONFIRM BEARING CAPACITY ASSUMPTIONS.

3.1 CONCRETE

A. CONCRETE WORK INCLUDING FORMING, MIXING, PLACING AND CURING SHALL BE IN ACCORDANCE WITH A.C.I. 301.

B. SUBMIT COMPLETE SHOP AND ERECTION DRAWINGS FOR REVIEW PRIOR TO FABRICATION OR ERECTION. REPRINTS OF CONTRACT DRAWINGS ARE NOT ACCEPTABLE. SUBMIT DESIGN MIXES FOR EACH CLASS OF CONCRETE PRIOR TO USE.

C. CONCRETE REINFORCING: A.S.T.M. A-615, GRADE 60.

D. WELDED WIRE MESH: A.S.T.M. A-185.

E. PORTLAND CEMENT: A.S.T.M. C-150, TYPE I.

F. BLENDED HYDRAULIC CEMENT: A.S.T.M. C-595.

G. FLY ASH: A.S.T.M. C-618, CLASS F (25% MAX.)

H. AGGREGATE: A.S.T.M. C-33. 1" MAXIMUM FOR FOOTINGS, WALLS AND SLABS ON GRADE, 1/2" MAXIMUM FOR THIN SLABS AND 3/8" FOR WALL FILL

I. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF: 3,000 PSI.

J. EXTERIOR CONCRETE TO BE AIR-ENTRAINED AND SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF: 3,500 PSI.

K. WATER CEMENT RATIO NOT TO EXCEED .54 FOR 3,000 PSI CONCRETE AND .45 FOR AIR ENTRAINED CONCRETE.

L. INSTALL WELDED WIRE MESH 2" BELOW UPPER SURFACE OF CONCRETE SLAB.

M. REINFORCING FOR FOOTINGS AND OTHER CONCRETE USING EARTH FORMS SHALL HAVE 3" CONCRETE COVER. REINFORCING FOR CONCRETE EXPOSED TO GROUND OR WEATHER AFTER REMOVAL OF FORMS SHALL HAVE 2" CONCRETE COVER. REINFORCING SHALL HAVE 3/4" CONCRETE COVER FOR SLABS AND WALLS AND 1 1/2" COVER FOR BEAMS, GIRDERS & COLUMNS.

N. LAP CONTINUOUS FOOTING REINFORCING 44 BAR DIAMETERS AT SPLICES.

O. USE A WATER REDUCING ADMIXTURE IN ALL CONCRETE.

P. USE A MINIMUM OF 5 1/2 BAGS OF CEMENT AND A MAXIMUM OF 6 1/2 GALLONS OF WATER PER BAG FOR EACH CUBIC YARD OF CONCRETE.

Q. SLUMP - AS REQUIRED BY ACI (211.1)EXCEPT THAT SLABS ON GRADE AND THIN FRAMED SLABS SHALL HAVE A MAXIMUM SLUMP OF 4".

R. AIR ENTRAIN EXTERIOR EXPOSED CONCRETE 5% +/- 1%.

S. NO CALCIUM CHLORIDE WILL BE PERMITTED IN CONCRETE.

T. ENGAGE THE SERVICES OF A TESTING AGENCY APPROVED BY THE ARCHITECT TO PERFORM TESTS OF CONCRETE. TAKE A MINIMUM OF 5 CYLINDERS FOR EACH CLASS OF CONCRETE POURED IN ANY ONE DAY. PERFORM 1 SLUMP TEST PER TRUCK LOAD OF CONCRETE.

U. PROVIDE TWO COMPRESSION TESTS AT 7 DAYS, TWO AT 28 DAYS, AND RETAIN ONE TEST FOR ADDITIONAL TESTING AS REQUIRED.

4.1 MASONRY

A. UNLESS GOVERNED BY BUILDING CODE OR LOCAL AMENDMENTS: MANUFACTURE AND INSTALL MASONRY IN ACCORDANCE WITH (ACI 530/ASCE 5/TMS 402),(ACI 530.1/ASCE 6/TMS 602). WHEN THERE IS A CONFLICT, THE MOST STRINGENT IS TO APPLY.

B. BRICK: 4,000 PSI COMPRESSIVE STRENGTH - ASTM C-216, TYPE FBS, GRADE SW. (Coordinate with architect)

C. MORTAR: ASTM C-270 TYPE S. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS TO BE 1,800 PSI.

4.4 STEEL & PRECAST LINTEL SCHEDULE

A. PROVIDE AND INSTALL LINTELS FOR OPENINGS IN MASONRY WALLS (NOT TO BE LIMITED TO OPENINGS SHOWN ON STRUCTURAL PLANS). UTILIZE LINTEL SIZES AS INDICATED ON THE SCHEDULE BELOW, UNLESS NOTED OTHERWISE ON PLAN. (COORDINATE OPENINGS FOR MECHANICAL TRADES, ARCHITECTURAL OPENINGS IN NON BEARING WALLS, ETC.)

B. WELD MULTIPLE ANGLE LINTELS AT ENDS AND 1/3 POINTS OF SPAN.

C. SHORE LINTELS TO PREVENT ROTATION DURING CONSTRUCTION.

D. LINTELS TO HAVE MINIMUM 8" BEARING ON SOLID MASONRY FOR A MINIMUM 16" DEEP EACH END, UNLESS NOTED OTHERWISE.

MARK	MATERIALS	REMARKS
L-1	1-L4x3½"x5/16" LLV FOR EACH 4" WALL THICKNESS FOR OPENINGS UP TO 6'-0"	FOR CAVITY WALLS, REPLACE 1-L4x3½"x5/16" LLV WITH 1-L5x5x⅜"
L-2	1-L6x3½"x5/16" LLV FOR EACH 4" WALL THICKNESS FOR OPENINGS UP TO 6'-1" TO 10'-0"	FOR CAVITY WALLS, REPLACE 1-L6x3½"x5/16" LLV WITH 1-L5x5x⅜"
P-1	1-4x8 PRECAST MASONRY LINTEL EACH 4" WALL THICKNESS OR 1-6x8 EACH 6" WALL BOTTOM BAR	FOR OPENINGS UP TO 2'-8"
P-2	1-4x8 PRECAST MASONRY LINTEL EACH 4" WALL THICKNESS OR 1-6x8 EACH 6" WALL THICKNESS WITH 1-#3 TOP AND 1-#4 BOTTOM BAR	FOR OPENINGS UP TO 3'-0" TO 6'-0"
P-3	1-4x8 PRECAST MASONRY LINTEL EACH 4" WALL THICKNESS OR 1-6x8 EACH 6" WALL THICKNESS WITH 1-#3 TOP AND 1-#5 BOTTOM BAR	FOR OPENINGS UP TO 6'-1" TO 10'-0"

5.1 STRUCTURAL STEEL

A. UNLESS GOVERNED BY BUILDING CODE OR LOCAL AMENDMENTS: FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION AND OSHA STEEL ERECTION STANDARDS UNLESS NOTED ON DRAWINGS OR SPECIFICATIONS. WHEN THERE IS A CONFLICT, THE MOST STRINGENT IS TO APPLY.

B. SUBMIT COMPLETE SHOP AND ERECTION DRAWINGS FOR REVIEW PRIOR TO FABRICATION. REPRINTS OF CONTRACT DOCUMENTS ARE NOT ACCEPTABLE.

C. STEEL - ASTM A-36 FOR ANGLES, CHANNELS, AND MISCELLANEOUS SHAPES.
- ASTM A-992 (50 KSI) FOR WF SHAPES.

D. STRUCTURAL TUBES - ASTM A-500 (GRADE B).

E. STRUCTURAL PIPES - ASTM A-501, OR ASTM A-53, TYPE E, GRADE B.

F. SUPPLY STEEL LINTELS REQUIRED FOR WALL SUPPORT. LINTELS WILL BE INSTALLED UNDER MASONRY DIVISION.

G. COLUMN BASE ANCHOR RODS - ASTM F-1554, GRADE 36.

H. HOOKED, HEADED, OR THREADED ANCHOR RODS - ASTM A-307, GRADE A.

I. NUTS - ASTM A-563, HEAVY.

J. WASHERS - ASTM F-436.

K. PLATE WASHERS - ASTM A-36.

L. HIGH STRENGTH BOLTS FOR CONNECTIONS - ASTM A-325 OR A-490.

M. GROUT FOR UNDER BASE AND BEARING PLATES: ASTM C-1107, 5000 PSI.

N. WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE A.W.S.

O. COORDINATE WELDING ELECTRODES, MACHINES, ETC., WITH TYPE OF STEEL BEING WELDED.

P. GUY AND BRACE STEEL FRAME TO MAINTAIN STABILITY OF BUILDING.

Q. ENDS OF BEAMS BEARING ON TOP OF COLUMNS TO HAVE 1/4" STIFFENER PLATES EACH SIDE (SEE DETAILS).

R. COAT STEEL EXPOSED AFTER BUILDING IS COMPLETED WITH ONE SHOP COAT OF AN APPROVED RUST INHIBITIVE PRIMER. PAINT STEEL EXPOSED TO WEATHER AFTER BUILDING IS COMPLETED WITH TWO ADDITIONAL COATS OF RUST INHIBITIVE PAINT AFTER ERECTION. PAINT SHALL BE COMPATIBLE WITH SHOP COAT.

S. ENGAGE THE SERVICES OF AN QUALIFIED INSPECTION AND TESTING AGENCY TO INSPECT STRUCTURAL STEEL PLACEMENT AND CONNECTIONS.

5.5 METAL DECK

A. DESIGN AND MANUFACTURE METAL DECK IN CONFORMANCE WITH THE "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AS PUBLISHED BY AISI.

B. SUBMIT COMPLETE SHOP AND ERECTION DRAWINGS FOR REVIEW PRIOR TO FABRICATION OR ERECTION. REPRINTS OF CONTRACT DOCUMENTS ARE NOT ACCEPTABLE.

C. CONNECT DECK TO SUPPORTING STEEL MEMBERS AS FOLLOWS (UNLESS OTHERWISE NOTED ON DRAWINGS): INTERMEDIATE BEARING - 5/8" PUDDLE WELDS AT 18" O/C; PERIMETER END BEARING - 5/8" PUDDLE WELDS AT 12" O/C; SIDE LAPS - #10 SELF TAPPING SCREWS AT 20" O/C; PERIMETER EDGE - 5/8" PUDDLE WELDS AT 20" O/C.

D. ENGAGE THE SERVICES OF AN INDEPENDENT AGENCY TO FIELD INSPECT THE METAL DECK AND ACCESSORIES.

5.6 COLD FORMED METAL FRAMING

A. DESIGN AND INSTALL COLD FORMED METAL FRAMING IN COMPLIANCE WITH THE "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS," LATEST EDITION, AS PUBLISHED BY AISI.

B. SUBMIT TO THE ARCHITECT FOR REVIEW, PRIOR TO FABRICATION, COMPLETE SHOP DRAWINGS OF LIGHT GAGE FRAMING ELEMENTS. SHOP DRAWINGS SHALL INCLUDE COMPLETE SECTION PROPERTIES OF MEMBERS, CONNECTION DETAILS, BRIDGING SIZE, LOCATION AND ERECTION PLANS, AND STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. REPRINTS OF CONTRACT DRAWINGS ARE NOT ACCEPTABLE.

C. PROVIDE A CONTINUOUS STEEL TRACK AT THE TOP AND BOTTOM OF STUD WALLS. HORIZONTAL BRIDGING FOR WALLS UP TO 10'- 0" HIGH TO BE 2 ROWS AND FOR WALL OVER 10'- 0" HIGH TO BE SPACED MAX. 4'- 0" O/C. CONNECT BRIDGING TO EACH FLANGE ON EACH STUD. DETAILS SHALL APPEAR ON SHOP DRAWINGS.

D. COLD FORMED METAL FRAMING FOR EXTERIOR WALLS, INTERIOR BEARING WALLS, AND JOISTS SHALL NOT BE LESS THAN 18 GAGE.

E. COLD FORMED METAL FRAMING SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-653. MINIMUM G90 COATING FOR MEMBERS IN EXTERIOR WALL CONSTRUCTION AND G60 FOR INTERIOR WALL FRAMING MEMBERS.

F. UNLESS NOTED OTHERWISE ON SHOP DRAWINGS, SCREW CONNECTIONS OF STUD-TO-STUD, STUD-TO-TRACK, AND STUD-TO-FRAME USING 2-NO. 8 SELF TAPPING METAL SCREWS AT EACH CONNECTION.

G. PROVIDE DOUBLE JAMB EACH END OF LINTEL, UNLESS NOTED OTHERWISE ON PLAN OR SHOP DRAWINGS.

H. CONNECT STUD FLANGES TO TRACK. STUDS SHALL HAVE FULL BEARING AGAINST INSIDE WEB OF TRACK. NO VOIDS WILL BE PERMITTED AT TOP OR BOTTOM OF STUD AT TRACK (TYPICAL).

I. PROVIDE VERTICAL STUD UNDER EACH JOIST (TYPICAL).

J. SCREW CONNECTIONS OF STUD-TO-STUD, STUD-TO-TRACK, AND STUD-TO-FRAME USING 2-NO. 8 SELF TAPPING METAL SCREWS AT EACH CONNECTION.

K. SPLICES IN STRUCTURAL MEMBERS WILL NOT BE PERMITTED.

L. ENGAGE THE SERVICES OF AN INDEPENDENT AGENCY TO FIELD INSPECT THE COLD FORMED METAL FRAMING AND COMPONENTS.

5.6A PREFABRICATED COLD FORMED METAL TRUSSES

A. DESIGN AND INSTALL COLD FORMED METAL TRUSSES AND CONNECTIONS FOR TRUSSES IN STRICT ACCORDANCE WITH APPLICABLE BUILDING CODE REQUIREMENTS AS WELL AS THE "SPECIFICATIONS FOR DESIGN OF COLD FORMED STRUCTURAL MEMBERS," AS PUBLISHED BY AISI, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

B. ONLY THE OUTLINES OF THE TRUSSES HAVE BEEN SHOWN. WEB CONFIGURATION SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER.

C. TRUSS-TO-TRUSS, TRUSS-TO-BEARING, AND TRUSS-TO-HEADER CONNECTIONS AND HARDWARE SHALL BE DESIGNED AND PROVIDED BY THE TRUSS MANUFACTURER.

D. SUBMIT TO ARCHITECT, PRIOR TO FABRICATION, COMPLETE SHOP DRAWINGS OF TRUSSES. SHOP DRAWINGS SHALL INCLUDE MEMBER STRESSES, MEMBER SIZES, SIZE AND LOCATION OF CONNECTORS, SIZE AND LOCATION OF PERMANENT TRUSS BRACING AND MEMBER BRACING, DATA RELATIVE TO PREFABRICATED HANGERS FOR TRUSS-TO-TRUSS AND TRUSS-TO-HEADER CONNECTIONS, CONNECTORS FOR ATTACHING TRUSSES TO SUPPORTING STRUCTURAL MEMBERS, DESIGN CALCULATIONS, AND ERECTION PLANS. REPRINTS OF THE CONTRACT DOCUMENTS ARE NOT ACCEPTABLE. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER (REGISTERED IN MARYLAND). ONLY SHOP DRAWINGS BEARING THE STAMP OF THE ARCHITECT SHALL BE USED FOR FABRICATION AND ERECTION.

E. ENGAGE THE SERVICES OF AN INDEPENDENT INSPECTION AGENCY TO FIELD INSPECT TRUSSES BEFORE AND AFTER ERECTION. INSPECTION AGENCY SHALL CERTIFY THAT THE TRUSSES, CONNECTIONS, AND BRACING HAVE BEEN INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

5.6B COLD FORMED METAL LINTEL SCHEDULE

A. PROVIDE AND INSTALL LINTELS FOR OPENINGS IN EXTERIOR WALLS AND INTERIOR BEARING WALLS.

B. OPENINGS FOR OTHER TRADES MAY NOT BE INDICATED ON THE STRUCTURAL DRAWINGS. COORDINATE OPENINGS FOR MECHANICAL TRADES, ARCHITECTURAL OPENINGS IN EXTERIOR WALLS AND INTERIOR BEARING WALLS, ETC. LINTELS FOR OPENINGS IN INTERIOR NON-BEARING WALLS PER MANUFACTURER'S DESIGN AND RECOMMENDATIONS.

C. UTILIZE MINIMUM LINTEL SIZES AS INDICATED ON THE SCHEDULE BELOW, UNLESS NOTED OTHERWISE ON PLAN OR PER MANUFACTURER'S RECOMMENDATIONS, WHICH EVER IS GREATER.

D. SHOP DRAWINGS TO INDICATE CONNECTIONS OF LINTELS TO JAMBS.

E. LINTELS TO HAVE MINIMUM 16 GAUGE TOP AND BOTTOM TRACK UNLESS NOTED OTHERWISE ON SHOP DRAWINGS.

LIGHT GAUGE LINTEL SCHEDULE		
MARK	MATERIALS	REMARKS
SL-1	(2)- 4" x 1⅝" X 16 GAUGE	FOR OPENINGS UP TO 3'-6", FOR 4" WALLS
SL-2	(2)- 6" x 1⅝" X 16 GAUGE	FOR OPENINGS 3'-7" UP TO 5'-3", FOR 4" OR 6" WALLS
SL-3	(3)- 6" x 1⅝" X 16 GAUGE	FOR OPENINGS 5'-4" UP TO 6'-6", FOR 6" WALLS
SL-4	(3)- 8" x 1⅝" X 16 GAUGE	FOR OPENINGS 6'-7" UP TO 7'-6", FOR 6" WALLS

NOTE: ALL LINTELS TO HAVE 6" X 16 GA. TOP AND BOTTOM TRACKS

5.9 STEEL GUARDRAILS/HANDRAILS

A. MANUFACTURER SHALL DESIGN GUARDRAILS/HANDRAILS AND CONNECTIONS TO STRUCTURE AT BALCONIES, STAIRWELLS, RAMPS, AND FLOOR OPENINGS (BOTH EXTERIOR AND INTERIOR) TO SUPPORT THE FOLLOWING DESIGN LOADS: 50 POUNDS PER LINEAL FOOT OR 200 POUND CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT AND IN ANY DIRECTION TO TOP OF RAIL, AND 50 POUND CONCENTRATED LOAD APPLIED ON A 1-SQUARE-FOOT AREA AT ANY POINT FOR REMAINING GUARDRAIL INFILL COMPONENTS. THESE LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY. SUBMIT SHOP AND ERECTION DRAWINGS INDICATING SIZES AND CONNECTIONS OF GUARDRAIL AND HANDRAIL COMPONENTS.

B. SUBMIT MANUFACTURER'S SHOP DRAWINGS CONTAINING A CERTIFICATION SEALED BY A PROFESSIONAL ENGINEER (REGISTERED IN MARYLAND) STATING THAT THE GUARDRAIL AND HANDRAIL COMPONENTS HAVE BEEN DESIGNED TO SUPPORT THE SPECIFIED LOADS.

SYMBOLS

A. ALL TYPICAL DETAILS, SECTIONS, AND NOTES ARE GENERAL IN NATURE AND USAGE IS NOT LIMITED TO WHERE SPECIFICALLY NOTED.

B / S-3 — TYPICAL DETAIL LETTER; SHEET WHERE DETAIL IS DRAWN

1 / S-3 — SECTION NUMBER; DIRECTION OF SECTION; SHEET WHERE SECTION IS DRAWN

1.1 — GENERAL NOTE NUMBER

STRUCTURAL ABBREVIATIONS

MARK	MEANING	MARK	MEANING	MARK	MEANING
ø	DIAMETER	FF	FINISHED FLOOR	SOG	SLAB ON GRADE
#	POUND/NUMBER	FND	FOUNDATION	SPF	SPRUCE PINE FIR
&	AND	FT	FOOT	SQ	SQUARE
@	AT	FTG	FOOTING	STD	STANDARD
±	PLUS OR MINUS	GA	GAUGE	STIFF	STIFFENER
AB	ANCHOR BOLTS	GALV	GALVANIZED	STL	STEEL
ADD	ADDITIONAL	GC	GENERAL CONTRACTOR	TC	TOP CHORD
ALT	ALTERNATE	GEN	GENERAL	T&B	TOP AND BOTTOM
ARCH	ARCHITECT	GLB	GLUE LAMINATED BEAM	T&G	TOUNGUE AND GROOVE
BLKG	BLOCKING	GT	GIRDER TRUSS	T/FTG	TOP OF FOOTING
BM	BEAM	HDR	HEADER	T/SLAB	TOP OF SLAB
BOT	BOTTOM	HGR	HANGER	TOS	TOP OF STEEL
BC	BOTTOM CHORD	HK	HOOK	THRU	THROUGH
BRG	BEARING	HT	HEIGHT	TYP	TYPICAL
BRDG	BRIDGING	HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
BLDG	BUILDING	HSS	TUBE STEEL/PIPE COLUMN	VERT	VERTICAL
CBR	CAMBER	IN	INCH	VAR	VARIES
CANT	CANTILEVER	INSUL	INSULATION	VIF	VERIFY IN FIELD
℄	CENTERLINE	INT	INTERIOR	W	WIDE FLANGE BEAM
CLR	CLEAR	JST	JOIST	W/	WITH
COL	COLUMN	K	KIP	W/O	WITH OUT
CONC	CONCRETE	L	ANGLE	WD	WOOD
CJ	CONTROL JOINT	LBS	POUND	WWF	WELDED WIRE FABRIC
CONN	CONNECTION	LLH	LONG LEG HORIZONTAL		
CONT	CONTINUOUS	LLV	LONG LEG VERTICAL		
COORD	COORDINATE	LVL	LAMINATED VENEER LUMBER		
CONST	CONSTRUCTION	LG	LONG		
CONTR	CONTRACTOR	LT GA	LIGHT GAUGE		
d	PENNY NAIL	MATL	MATERIAL		
DP	DEEP	MAX	MAXIMUM		
DET	DETAIL	MTL	METAL		
DIAG	DIAGONAL	MIDHT	MID HEIGTH		
DO	DITTO	MIN	MINIMUM		
DBL	DOUBLE	MNFR	MANUFACTURER		
DF	DOUGLAS FIR	NIC	NOT IN CONTRACT		
DWG	DRAWING	NTS	NOT TO SCALE		
DWL	DOWELL	OC	ON CENTER		
EA	EACH	OPNG	OPENING		
EE	EACH END	OPP	OPPOSITE		
EF	EACH FACE	OSB	ORIENTED STRAND BOARD		
EJ	EXPANSION JOINT	PAF	POWER ACTIVATED FASTENER		
EL	ELEVATION	R	PLATE		
ELEV	ELEVATOR	PSF	POUNDS PER SQUARE FOOT		
EMBED	EMBEDMENT	PSI	POUNDS PER SQUARE INCH		
EQ	EQUAL	PSL	PARALLEL STRAND LUMBER		
ES	EACH SIDE	PLWD	PLYWOOD		
EW	EACH WAY	PT	PRESSURE TREATED		
EWB	EACH WAY BOTTOM	RCP	REINFORCED CONCRETE PIPE		
EX	EXISTING	REINF	REINFORCING		
EXP	EXPANSION	REQ'D	REQUIRED		
EXT	EXTERIOR	SHTG	SHEATHING		
FIN	FINISHED	SIM	SIMILAR		

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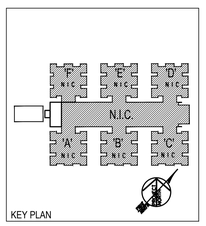

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Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No: 16519 Expiration Date: 06/11/17

CONSTRUCTION DOCUMENTS

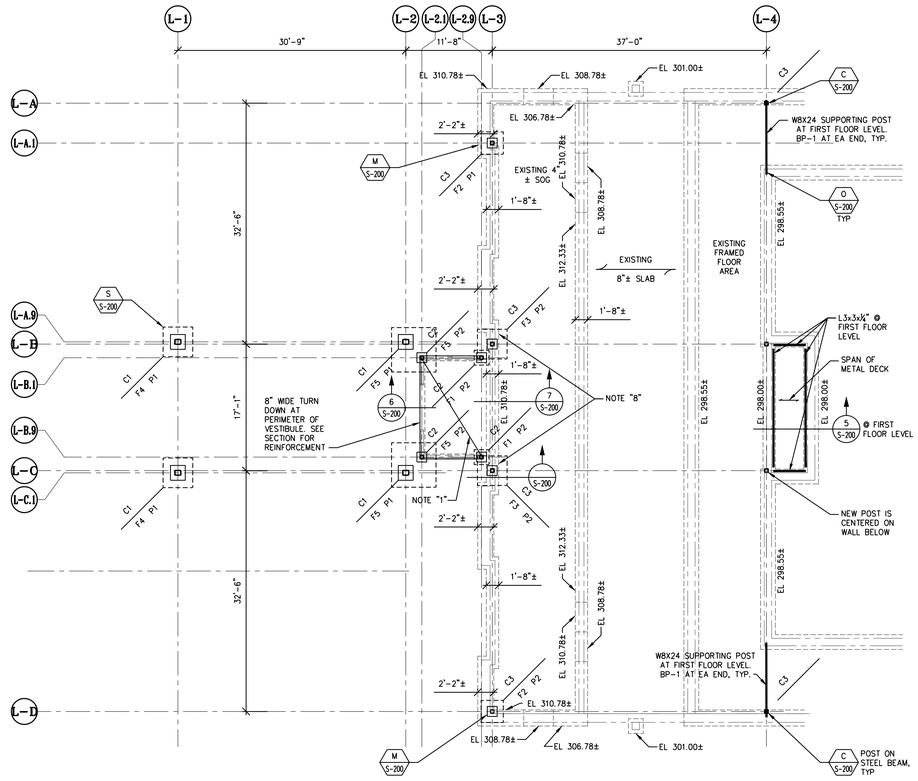
Number	Description	Date

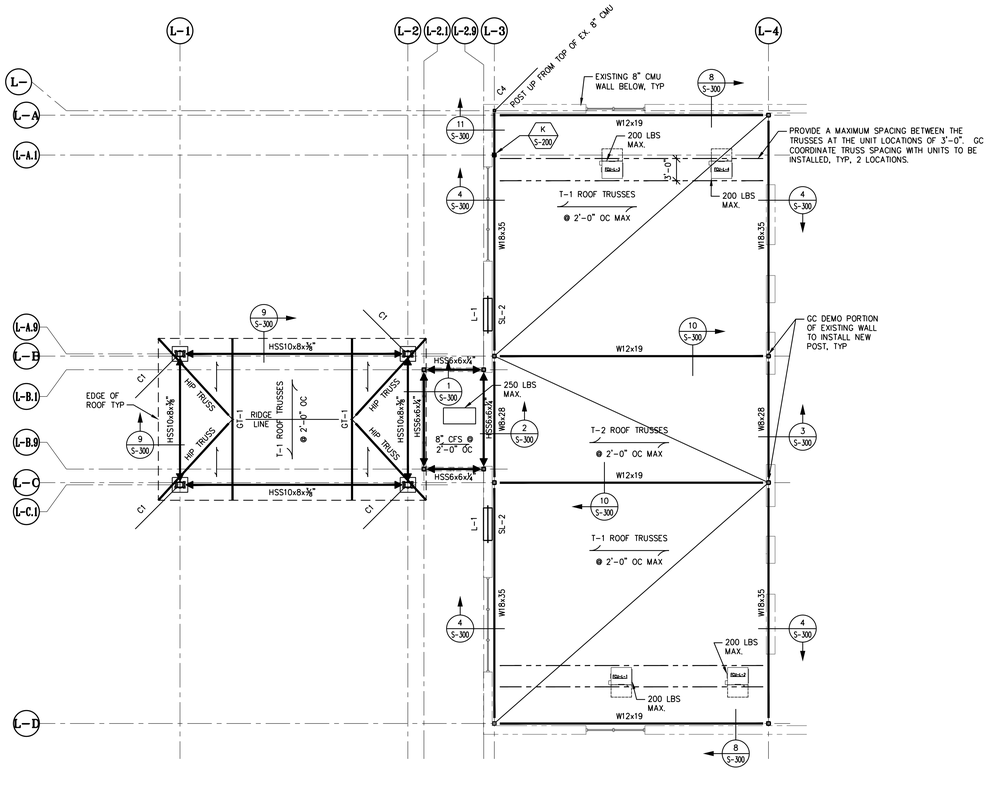
Date: 05/01/17

Project Number: 17083

General Notes

S-001





PIER SCHEDULE		
MARK	SIZE	REINFORCING
P1	2'-0"x2'-0"	6-#5 VERT AND #4 TIES @ 10" OC
P2	1'-4"x1'-4"	4-#5 VERT AND #4 TIES @ 10" OC

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	2'-0"x2'-0"x1'-0"	2-#5 BARS EWB
F2	3'-0"x3'-0"x1'-0"	3-#5 BARS EWB
F3	4'-0"x4'-0"x1'-0"	4-#5 BARS EWB
F4	4'-0"x4'-0"x2'-0"	4-#5 BARS EW TOP & BOTT
F5	6'-0"x6'-0"x2'-0"	6-#5 BARS EW TOP & BOTT

COLUMN SCHEDULE		
MARK	SIZE	BASE PLATE
C1	HSS10x8x½	1'-4"x½"x0'-9" W/4-¾" DIA AB
C2	HSS6x6x¼	1'-0"x⅜"x0'-7" W/4-¾" DIA AB
C3	HSS6x6x⅜	1'-0"x⅜"x0'-7" W/4-¾" DIA AB
C4	HSS4x4x¼	6"x1/2"x1'-4" W/4-1/2" DIA AB

Foundation Plan

1/8" = 1'-0"

1. ENTIRE FLOOR TO BE 4" CONCRETE SLAB ON GRADE REINFORCED WITH 1- LAYER OF 6x6-W2.9xW2.9 WELDED WIRE MESH. JOINTS IN MESH TO LAP 6" MINIMUM. SLAB SUB-GRADE TO BE 4" WASHED STONE OR GRAVEL COVERED WITH 10 MIL. POLYETHYLENE VAPOR RETARDER. LAP AND TAPE JOINTS.
2. SEE ARCHITECTURAL DRAWINGS FOR ELEVATION TOP OF CONCRETE.
3. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DEPRESSIONS, TRENCHES, ETC.
4. ELEVATION TOP OF EXTERIOR FOOTINGS SHALL BE 1'-6" BELOW FINISH GRADE UNLESS OTHERWISE NOTED IN PLAN THUS (00.00').
5. (00.00') INDICATES ELEVATION TOP OF FOOTING ADJUST AS REQUIRED TO MEET MASONRY COURSE LINES.
6. PROVIDE CONTROL JOINTS IN SLAB PER DETAIL "N/S-200".
7. STEP NEW FOOTINGS TO MEET EXISTING FOOTINGS SEE TYPICAL DETAIL "1/S-200".
8. GC TO DEMO PORTION OF EXISTING FOUNDATION WALL AND FOOTING. INSTALL NEW FOUNDATION AND PIERS. DOWEL NEW FOUNDATION REINFORCEMENT INTO EXISTING FOUNDATION. EPOXY USING HILTI HIT HY 200, EMBED 6".

Roof Framing Plan

1/8" = 1'-0"

1. ENTIRE ROOF SHALL BE 1 1/2" MINIMUM 22 GA. GALV. DECK.
   MIN. S = 01.86 IN^3, MIN. I = 0.155 IN^4 1 SPAN
   MIN. S = 0.372 IN^3, MIN. I = 0.31 IN^4 2 SPAN
   MIN. S = 0.558 IN^3, MIN. I = 0.465 IN^4 3 SPAN.
2. SEE ARCHITECTURAL DRAWINGS FOR ELEVATION TOP OF DECK.
3. TOP OF TRUSSES 1 1/2" BELOW TOP OF METAL DECK UNLESS OTHERWISE NOTED IN PLAN THUS (-0").
4. TOP OF STEEL BEAMS= 10.83' A.F.F. FOR LOBBY AND 13.67' A.F.F. FOR DRIVE CANOPY.
5. PROVIDE JOIST ON CENTER LINE COLUMN (TYPICAL).
6. ▶ - INDICATES MOMENT CONNECTION, TYP. PROVIDE FULL PENN BUTT WELD ALL AROUND, FOR TUBE TO TUBE COLUMNS, TYP.

0' 4' 8' 16

1/8"=1'-0

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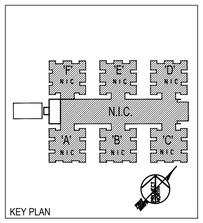

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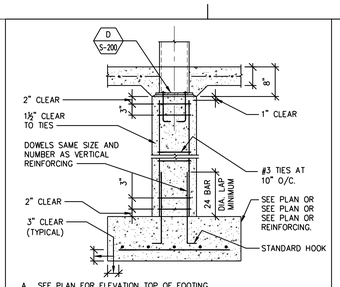
Foundation
And
Roof Framing
Plan

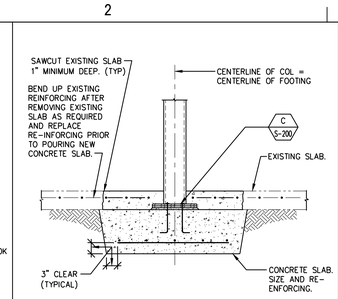
S-101



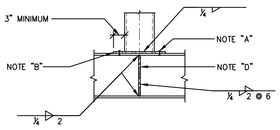
A. SEE PLAN FOR ELEVATION TOP OF FOOTING.

B. PROVIDE PIER WHENEVER TOP OF FOOTING IS MORE THAN 8" BELOW TOP OF SLAB.

CONCRETE PIER ON SPREAD FTG. DETAIL — A



TYPICAL SPREAD FOOTING @ EXISTING SLAB — B



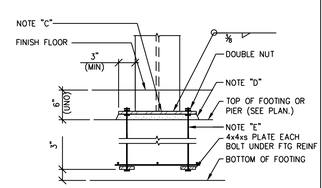
A. ½" BASE PLATE SIZE AS REQUIRED TO RECEIVE BOLTS.

B. 4 -¾"ø A-325 HIGH STRENGTH BOLTS.

C. MILL TOPS OF COLUMNS TO RECEIVE CAP PLATES (TYPICAL).

D. ONE STIFFENER PLATE IN BEAM (¼" THICK) AT COLUMN CENTERLINE.

TUBE OR ROUND COL. BEARING ON STL. BEAM — C



A. SEE BASE PLATE SCHEDULE.

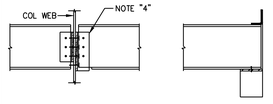
B. BURN OFF TOPS OF BOLTS FOR 1" MINIMUM CONCRETE COVER.

C. MILL BOTTOM OF ALL COLUMNS AND FINISH BEARING PLATE PER A.I.S.C. SECTION 1.21.3.

D. 1½"± GROUT; DRYPACK AROUND LEVELING NUTS.

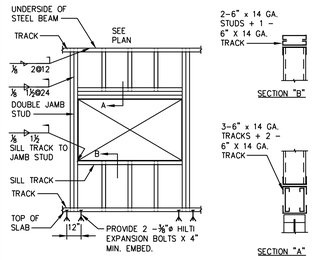
E. 4 - 1"ø ANCHOR BOLTS.

TYPICAL COLUMN BASE TYPE 2 — D

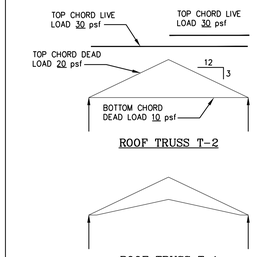


1. ALL CONNECTIONS SHALL BE BOLTED OR WELDED, AND SHALL BE IN ACCORDANCE WITH TABLES IN CHAPTER'S 9 & 10 IN A.I.S.C. MANUAL 14TH EDITION.
2. CONNECTION SHALL DEVELOP END REACTION FOR SPECIFIED SHAPE, SPAN AND STEEL GRADE AS COMPUTED FROM TABLES INDICATING ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED. A.I.S.C. MANUAL 14TH EDITION UNLESS OTHERWISE NOTED THUS [x] IN PLAN.
3. ALL BOLTS USED FOR FINAL CONNECTIONS SHALL BE MINIMUM A-325 H.S. BOLTS.
4. FOR DOUBLE CONNECTION ON EACH SIDE OF COLUMN WEB, MAKE ONE ANGLE LONGER AND ADD AN EXTRA BOLT FOR THE BEAM ERECTED FIRST OR PROVIDE A SEAT ANGLE FOR ERECTION TO COMPLY W/OSHA REQUIREMENTS.

TYPICAL BEAM SHEAR CONNECTION — E



METAL STUD OPENINGS — F



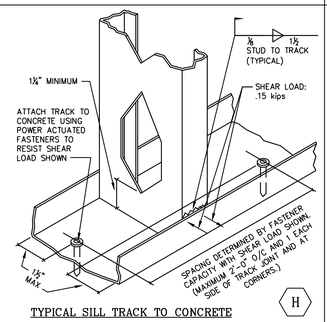
ROOF TRUSS T-2

ROOF TRUSS T-1

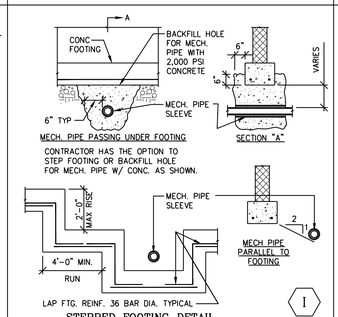
LOADS SHOWN ARE IN POUNDS PER SQUARE FOOT UNLESS NOTED OTHERWISE. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING CONDITIONS:

1. DEAD + BOTTOM CHORD LIVE LOAD + TOP CHORD LIVE LOAD (WHICHEVER IS GREATER)
2. WIND + DEAD LOAD + BOTTOM CHORD LIVE LOAD
3. DEAD LOAD + WIND + BOTTOM CHORD LIVE LOAD + TOP CHORD LIVE LOAD (WHICHEVER IS GREATER)
4. ALL WIND LOADS ARE NORMAL AND OUTWARD TO ROOF SLOPE.
5. OVERHANGS AND OTHER ROOF PROJECTIONS SHALL BE DESIGNED FOR UPWARD PRESSURE OF TWO TIMES WIND LOAD.
6. ALL TRUSSES SHALL BE DESIGNED FOR THE LOADS SHOWN UNLESS NOTED OTHERWISE.
7. SEE ARCHITECT'S DRAWINGS FOR SPAN, HEIGHT AND PROJECTION DIMENSIONS.
8. WEB CONFIGURATION PER MANUFACTURER'S REQUIREMENTS.
9. | - INDICATES CENTERLINE OF SUPPORTS.

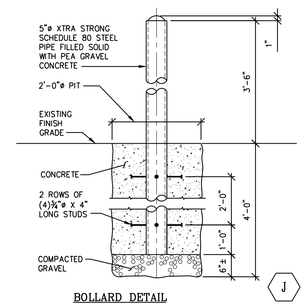
ROOF TRUSS DETAIL — G



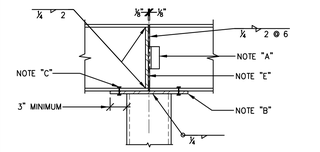
TYPICAL SILL TRACK TO CONCRETE — H



STEPPED FOOTING DETAIL — I



BOLLARD DETAIL — J



A. CONTRACTOR TO FURNISH CLIPS, PLATES, ETC. AS REQUIRED TO KEEP WEBS IN ALIGNMENT.

B. ⅜" THICK CAP PLATE; SIZE AS REQUIRED TO RECEIVE BOLTS.

C. 4 -¾"ø A-325 H.S. BOLTS (TWO EACH BEAM)

D. MILL TOP OF COLUMN TO RECEIVE PLATE (TYPICAL).

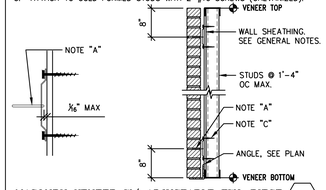
E. ¼" STIFFENER PLATE IN BEAM (BOTH SIDES, END OF ONE BEAM ONLY)

TWO BEAMS BEARING ON TUBE OR ROUND COLUMN — K

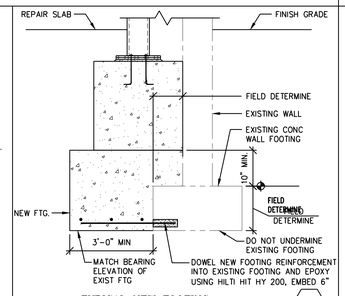
A. ADJUSTABLE TWO-PIECE WALL TIE ANCHORS BY HECKMAN @ 1'-4" OC. VERTICAL @ EACH STUD.⅜6" GAGE WIRE TIE #316 AND 12 GAGE FASTENER #315-D TO BE GALVANIZED.

B. PROVIDE ADDITIONAL ANCHORS AROUND OPENINGS LARGER THAN 1'-4" IN EITHER DIMENSION. SPACE ANCHORS AROUND PERIMETER OF OPENING @ A MAXIMUM OF 1'-4" OC. PLACE ANCHORS WITHIN 8" OF OPENINGS.

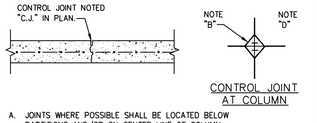
C. ATTACH TO COLD FORMED STUDS WITH 2-#10 SCREWS (GALVANIZED).



MASONRY VENEER W/ ADJUSTABLE TWO PIECE ANCHORAGE TO COLD FORMED METAL STUDS — L



TYPICAL NEW FOOTING TIE-IN TO EXISTING FOOTING DETAIL — M



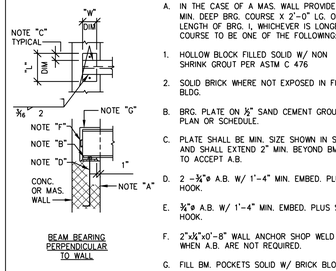
A. JOINTS WHERE POSSIBLE SHALL BE LOCATED BELOW PARTITIONS AND/OR ON CENTER LINE OF COLUMN GRID. PROVIDE DIAMOND SHAPED JOINT AT ALL COLUMNS.

B. SAW CUT JOINTS WHERE NOTED IN PLAN USING SOFT-CUT METHOD. SAW CUT DEPTH SHALL BE ¼ SLAB THICKNESS. SAW CUT JOINT AS SOON AS SLAB WILL SUPPORT WEIGHT OF SAW AND OPERATOR WITHOUT DISTURBING SLAB FINISH.

C. FILL SAW CUT WITH A SELF-LEVELING JOINT SEALANT HAVING A SHORE "A"-SCALE HARDNESS NUMBER OF "80" MINIMUM.

D. PROVIDE ½" MIN. THICK PREMOLDED EXPANSION JOINT MATERIAL AND NON SAG SEALANT AROUND CORNERS.

SLAB CONTROL JOINT DETAIL — N



GENERAL NOTES

A. IN THE CASE OF A MAS. WALL PROVIDE 1'-4" MIN. DEEP BRG. COURSE X 2'-0" LG. OR 3 TIMES LENGTH OF BRG. L, WHICHEVER IS LONGER. BRG. COURSE TO BE ONE OF THE FOLLOWING:

1. HOLLOW BLOCK FILLED SOLID W/ NON SHRINK GROUT PER ASTM C 476
2. SOLID BRICK WHERE NOT EXPOSED IN FINISHED BLDG.

B. BRG. PLATE ON ½" SAND CEMENT GROUT; SEE PLAN OR SCHEDULE.

C. PLATE SHALL BE MIN. SIZE SHOWN IN SCHEDULE AND SHALL EXTEND 2" MIN. BEYOND BM. FLANGE TO ACCEPT A.B.

D. 2 -¾"ø A.B. W/ 1'-4" MIN. EMBED. PLUS STD. HOOK.

E. ¾"ø A.B. W/ 1'-4" MIN. EMBED. PLUS STD. HOOK.

F. 2"x¾"x0'-8" WALL ANCHOR SHOP WELD TO BM. WHEN A.B. ARE NOT REQUIRED.

G. FILL BM. POCKETS SOLID W/ BRICK BLOCK OR NON SHRINK GROUT. WHERE POCKETS ARE EXPOSED TO VIEW, USE MATERIALS TO MATCH PATTERN OF WALL.

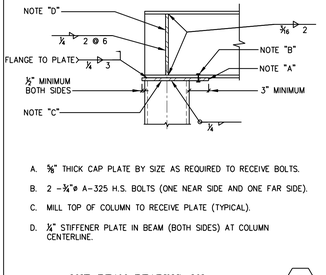
BRG. PLATE SCHED

ALL BEAMS TO BRG PLATES 7"x½"x0'-8" UNLESS NOTED OTHERWISE. PLATE IN SCHED IS SHOWN AS "W" DIM. x THICKNESS x "L" DIM. ALL BRG PLATES FOR ROOF BMS TO HAVE A.B.

MARK	MATERIAL	AB REQD
BP-1	7"x½"x0'-8"	N

A.B.= ANCHOR BOLTS.

BEAM BEARING ON MASONRY OR CONCRETE WALL — O



A. ⅜" THICK CAP PLATE BY SIZE AS REQUIRED TO RECEIVE BOLTS.

B. 2 -¾"ø A-325 H.S. BOLTS (ONE NEAR SIDE AND ONE FAR SIDE).

C. MILL TOP OF COLUMN TO RECEIVE PLATE (TYPICAL).

D. ¼" STIFFENER PLATE IN BEAM (BOTH SIDES) AT COLUMN CENTERLINE.

ONE BEAM BEARING ON TUBE OR ROUND COLUMN — P

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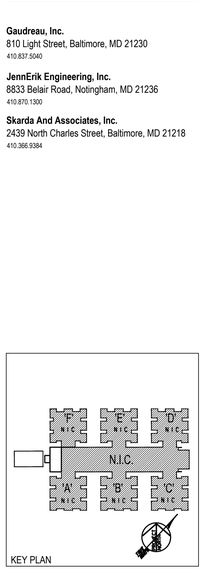

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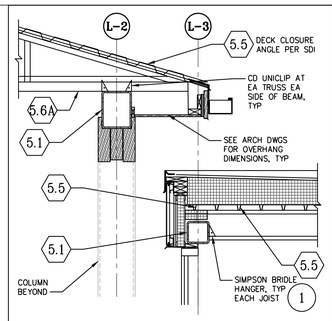
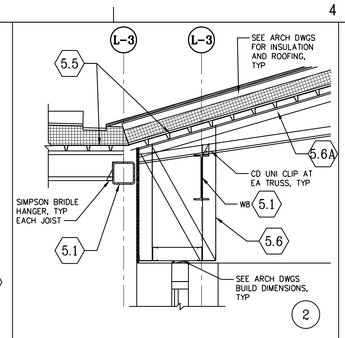
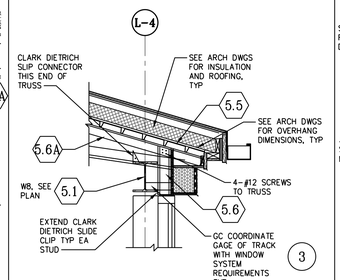
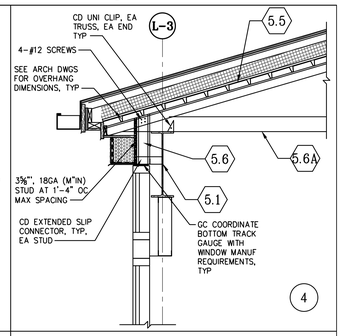
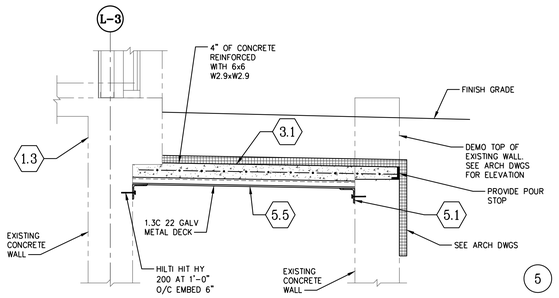
S-200

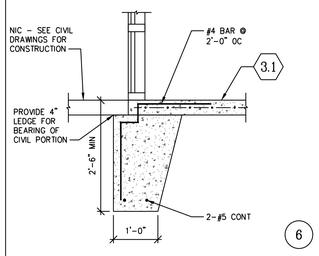


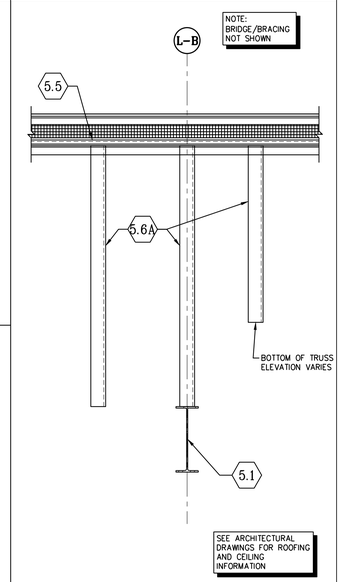


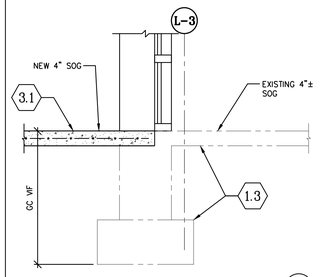


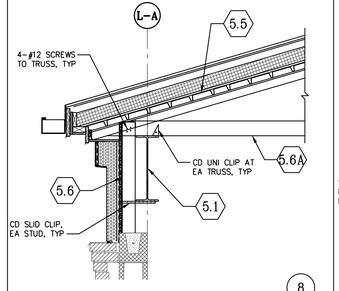


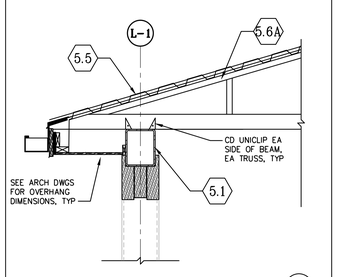


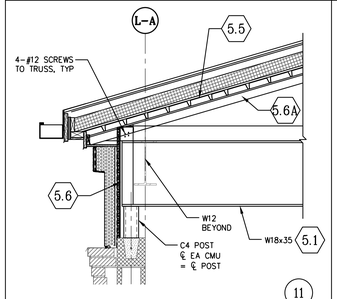












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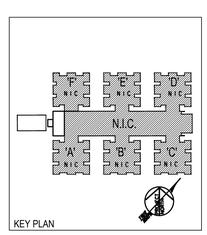

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CONSTRUCTION DOCUMENTS

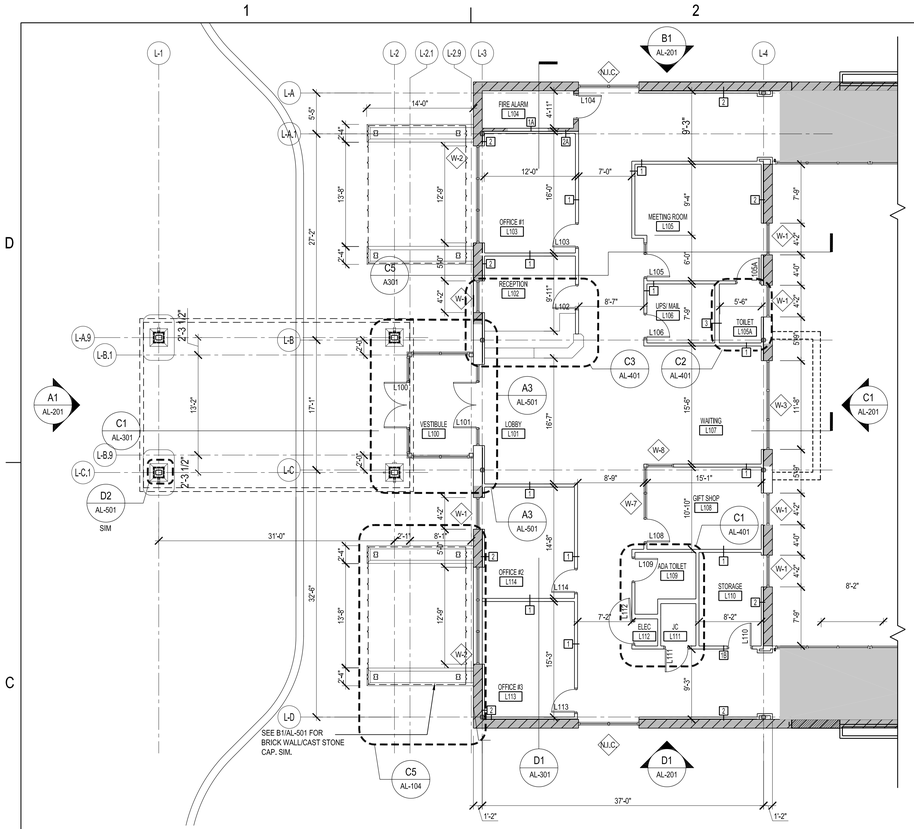
Number	Description	Date

Date: 05/01/17

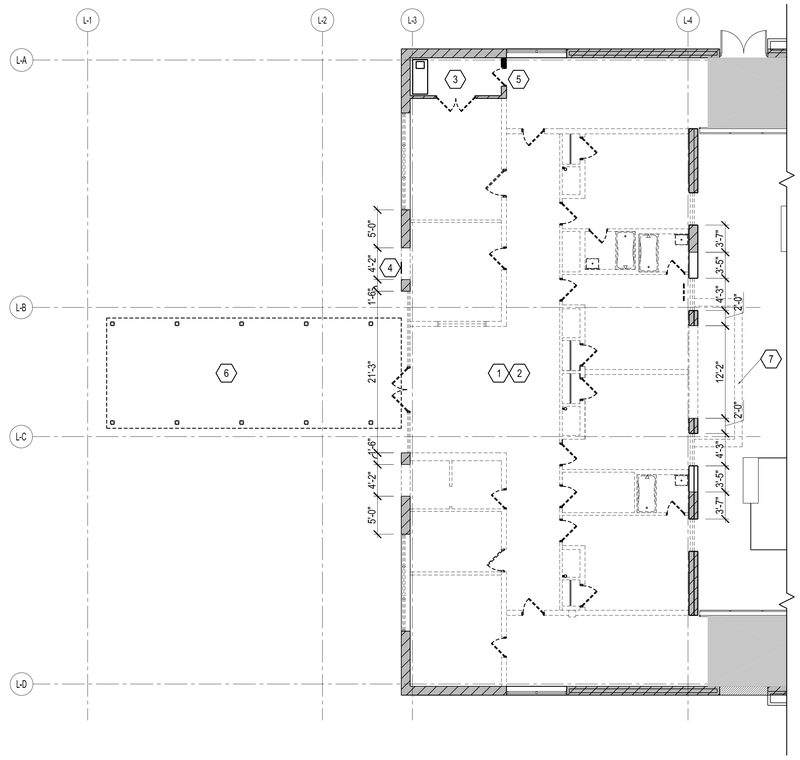
Project Number: 17083

Sections

S-300



C1 LOBBY FLOOR PLAN
SCALE: 1/8" = 1'-0"



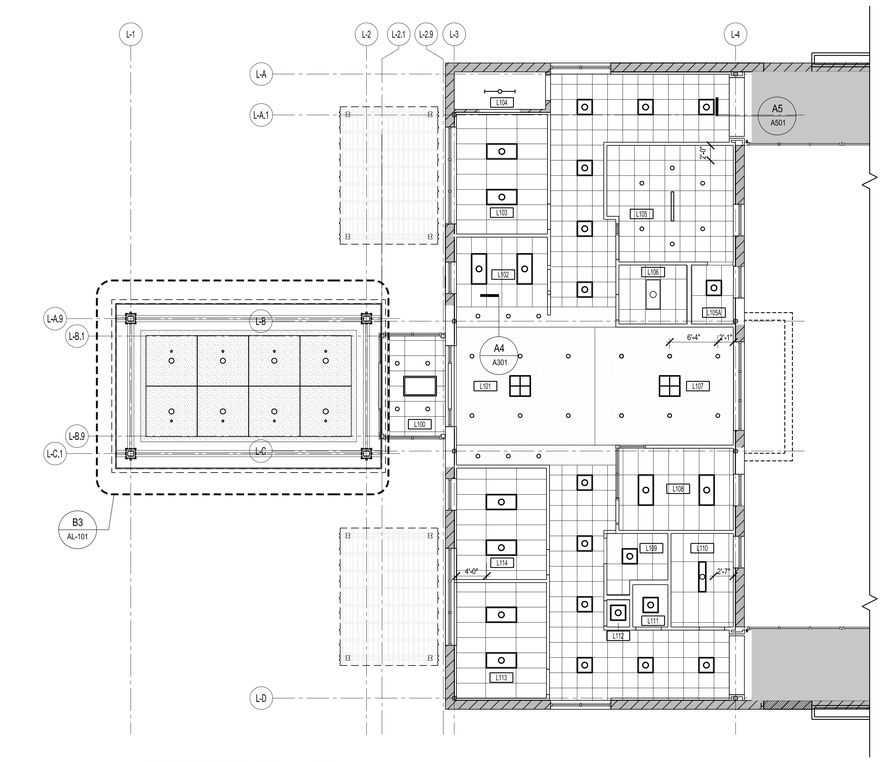
C3 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

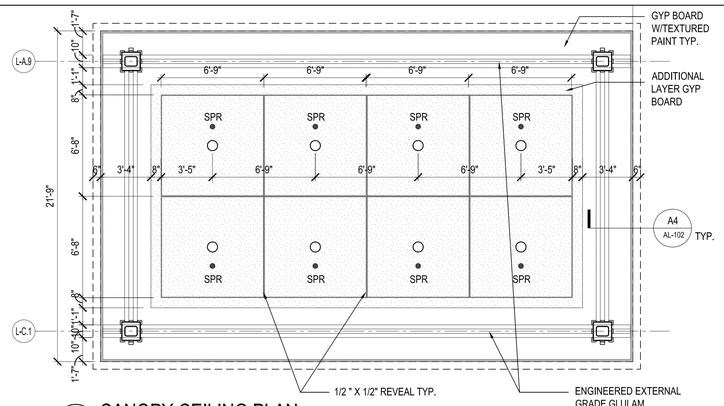
1. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE REMOVED.
2. IF DAMAGES OCCUR DURING DEMOLITION OR CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR REPAIRING EXISTING CONSTRUCTION IN ELEVATOR LOBBY, PUBLIC CORRIDORS, RESTROOMS OR TENANT SPACES. REFINISH TO MATCH EXISTING ADJACENT FINISH.
3. PATCH AND REPAIR ALL EXISTING FIRE-RATED CONSTRUCTION AND ASSEMBLIES AS REQUIRED TO MAINTAIN THE REQUIRED RATING.
4. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DWGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
5. CONTRACTOR TO COMPLY WITH LANDLORD'S RULES AND REGULATIONS.
6. CONTRACTOR SHALL PROTECT ITEMS NOT DEMOLISHED OR REMOVED, TO INCLUDE BUT NOT LIMITED TO: EXISTING VERTICAL BLINDS, EXISTING FIN-TUBE RADIATORS, EXISTING TEMPERED GLASS DOORS, WINDOWS & HARDWARE, EXISTING CARD READERS, EXISTING CEILINGS, COLUMN ENCLOSURES, PLASTIC LAMINATE CABINETS, AND APPLIANCES.
7. GENERAL CONTRACTOR SHALL PATCH ANY EXISTING FIREPROOFING DAMAGED DURING DEMOLITION. RESTORE INTEGRITY OF FIREPROOFING AS REQUIRED BY BUILDING AND FIRE CODES AND AS REQUIRED BY GOVERNING AUTHORITIES.
8. REMOVE EXISTING CEILINGS EXCEPT WHERE NOTED.
9. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO MAKING ANY FLOOR PENETRATIONS.
10. DO NOT BLOCK EXITS AT ANY TIME.
11. ERECT NECESSARY DUST PARTITIONS & MEASURES TO PROTECT ADJACENT BUILDING AREAS OR PROPERTY DURING PROGRESS OF DEMOLITION AND CONSTRUCTION INSTALLATION.
12. REMOVE EXISTING FLOOR FINISHES AND WALL BASE, UNLESS NOTED OTHERWISE. CLEAN ADHESIVE FROM CONCRETE SLAB AND REMAINING WALL SURFACES. PROTECT EXISTING FINISHES TO REMAIN
13. REMOVE EXISTING SIGNS & SALVAGE FOR RE-INSTALLATION

PARTITION NOTES:

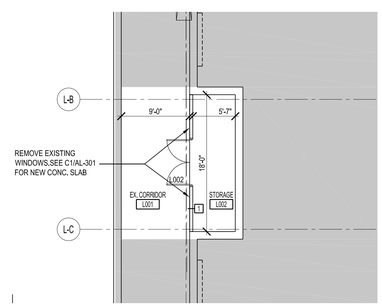
1. ALL FIRE AND STC RATED PARTITIONS ARE TO BE CONSTRUCTED FROM TYPE X GYP BD & RUN FROM FLOOR TO STRUCTURE ABOVE AND ALL OPENINGS ARE TO BE SEALED.
2. ALL INSULATED PARTITIONS ARE TO BE SEALED AT FLOOR AND CEILING OR STRUCTURE ABOVE.
3. INSTALL ABUSE RESISTANT GYP BD ON LOWER 4'-0" OF PARTITIONS ALONG LOBBY & CORRIDORS.
4. WALLS AND CEILINGS OF THE FOLLOWING ROOMS TO RECEIVE TILE BACKER (AT WALL TILE LOCATIONS) AND MOISTURE RESISTANT GYP BD FOR REMAINDER OF LOCATIONS:
   -TOILET ROOMS
   -JANITOR CLOSETS
5. SEE AL-601 FOR PARTITION TYPES



A1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



B3 CANOPY CEILING PLAN
SCALE: 1/4" = 1'-0"



A3 PARTIAL BASEMENT FLOOR PLAN (ADD ALTERNATE)
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES:

1. ALL EXISTING CEILINGS & SUSPENSION SYSTEMS TO BE REMOVED
2. ALL EXISTING FLOORING & MASTIC TO BE REMOVED
3. ROOM NEEDS TO STAY OPERATIONAL AND WEATHER-TIGHT DURING CONSTRUCTION
4. PRESERVE AND RE-INSTALL CORNERSTONE
5. ENLARGE EXISTING MASONRY OPENING FOR NEW HOLLOW METAL DOOR AND FRAME
6. EXISTING CANOPY AND COLUMNS/FOOTINGS TO BE REMOVED
7. SAW CUT TOP OF CONCRETE WALL TO BELOW GRADE. SEE C1/AL-301 (ADD ALTERNATE)

DEMOLITION LEGEND:

- EXISTING DOOR TO BE REMOVED
- EXISTING WALLS AND PARTITIONS TO BE REMOVED
- EXISTING WALLS AND PARTITIONS TO REMAIN
- EXISTING WINDOW TO BE REMOVED
- EXISTING STEEL COLUMN TO BE REMOVED
- EXISTING BATHROOM FIXTURES TO BE REMOVED

GENERAL CEILING NOTES:

1. CENTER CEILING GRIDS WITHIN EACH SPACE UNLESS DIMENSIONED OR SHOWN OTHERWISE
2. CENTER DOWNLIGHTS WITHIN CEILING TILES, TYP
3. COORDINATE ACCESS PANELS IN GYPSUM BOARD TO MINIMIZE LOCATIONS
4. CEILING HEIGHTS SHALL BE 9'-0', TYPICAL UNLESS SHOWN OTHERWISE

REFLECTED CEILING PLAN LEGEND:

- 2'-0" x 2'-0" ACOUSTICAL CEILING PANEL
- 2'-0" x 4'-0" ACOUSTICAL CEILING PANEL
- GYP BD CEILING
- SURFACE-MOUNTED FIXTURE
- SPRINKLER
- PENDANT LIGHT 01
- PENDANT LIGHT #2
- RECESSED LIGHT FIXTURE
- DIRECTIONAL RECESSED LIGHT FIXTURE
- 2' x 4' OR 2' X2' RECESSED LIGHT FIXTURE

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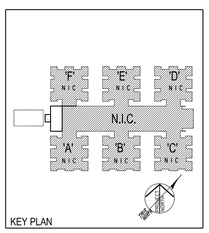

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CONSTRUCTION DOCUMENTS

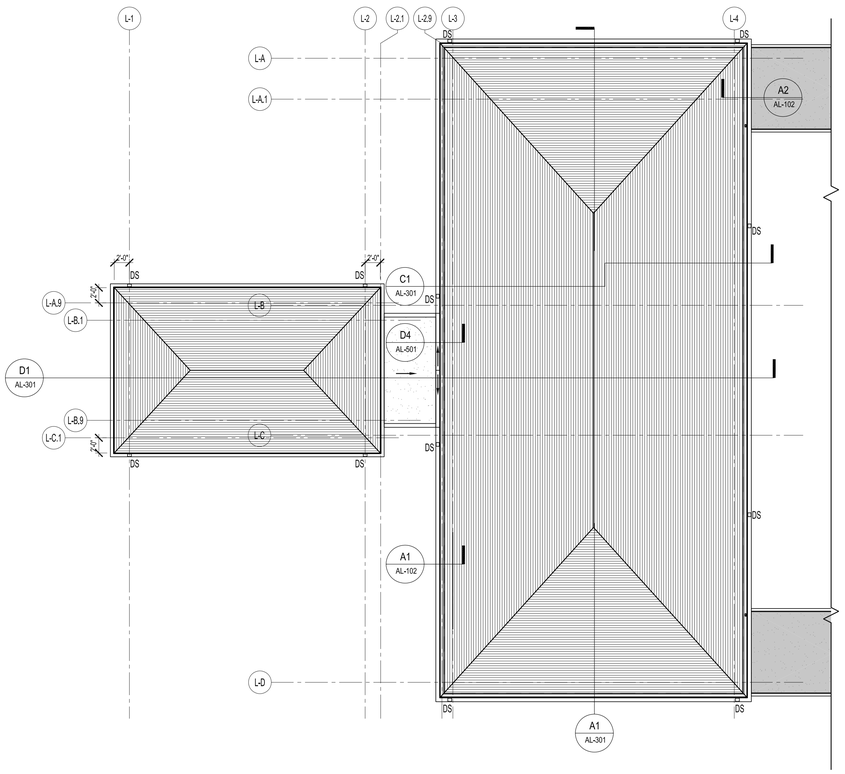
Number	Description	Date

Date: 05/01/17

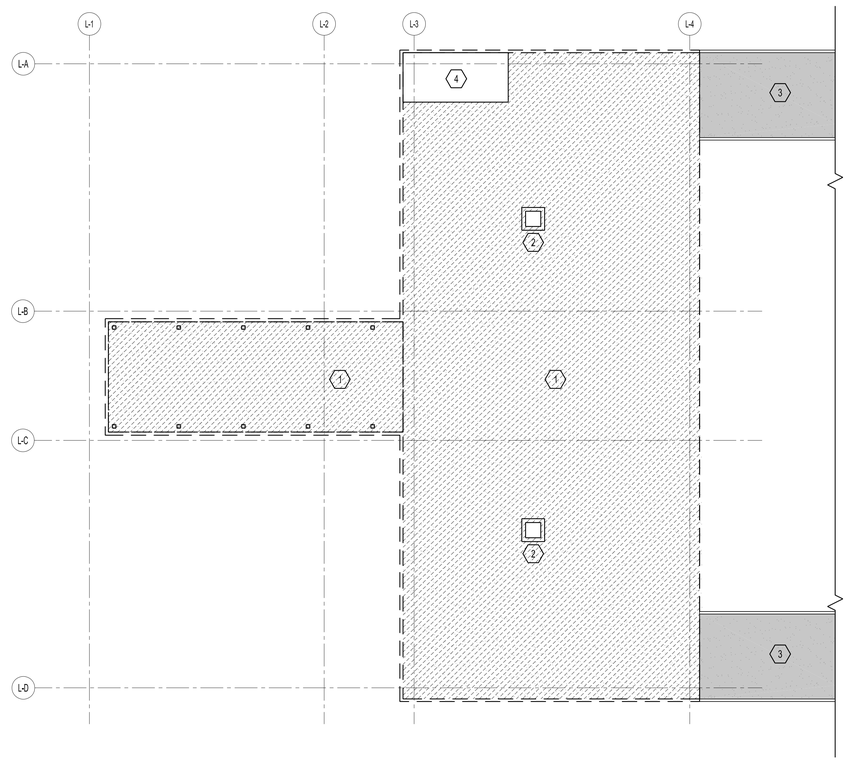
Project Number: 17000.00

FLOOR PLAN,DEMOLITION PLAN & REFLECTED CEILING PLAN

AL-101



C1 ROOF PLAN
SCALE: 1/8" = 1'-0"



C3 ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL ROOF BLOCKING SHALL BE FT/FRT, TYP.
2. REFER TO SIMILAR DETAILS FOR TYPICAL NOTES

DEMOLITION KEYNOTES:

1. EXISTING ROOF AND STRUCTURE TO BE REMOVED
2. EXISTING SKYLIGHT TO BE REMOVED
3. EXISTING ROOF TO REMAIN
4. PROTECT AND MAINTAIN ROOF ABOVE FIRE ALARM ROOM

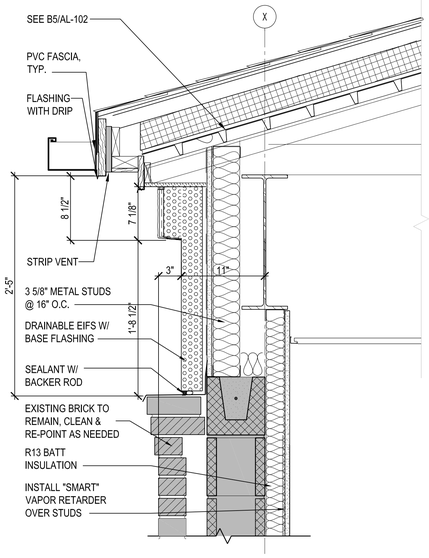
ROOF LEGEND:

TPO ROOF

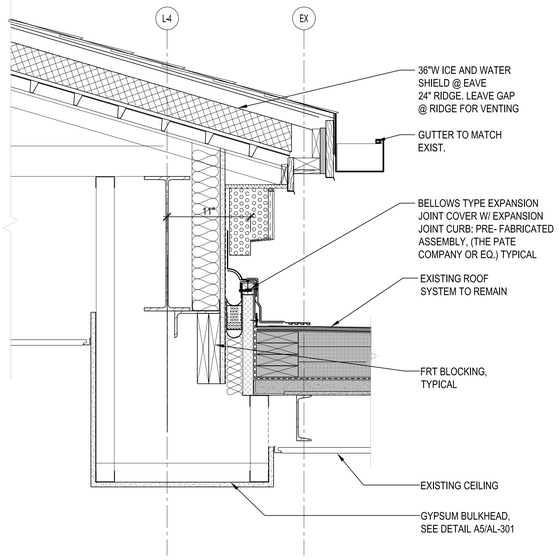
ASPHALT SHINGLES

EXISTING ROOF TO REMAIN

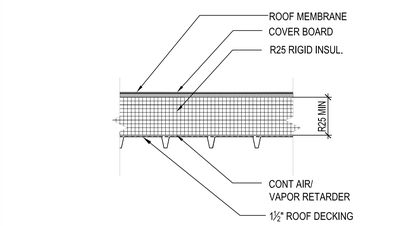
EXISTING ROOF TO BE DEMOLISHED



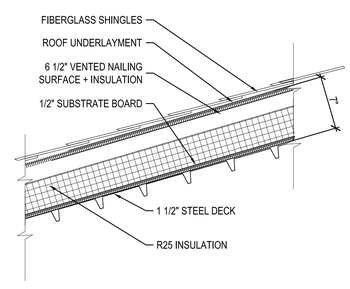
A1 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



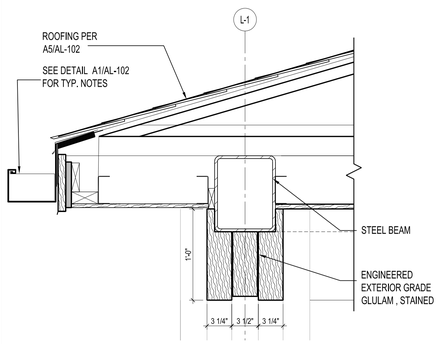
A2 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



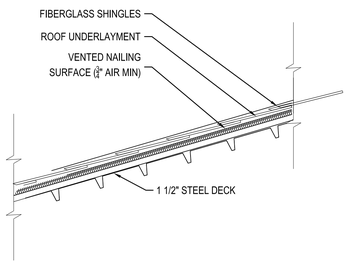
B4 VESTIBULE ROOFING SYSTEM
SCALE: 1 1/2" = 1'-0"



B5 TYP.SHINGLES @ STEEL DECK
SCALE: 1 1/2" = 1'-0"



A4 ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



A5 CANOPY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"

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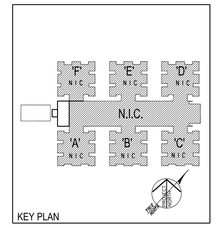

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CONSTRUCTION DOCUMENTS

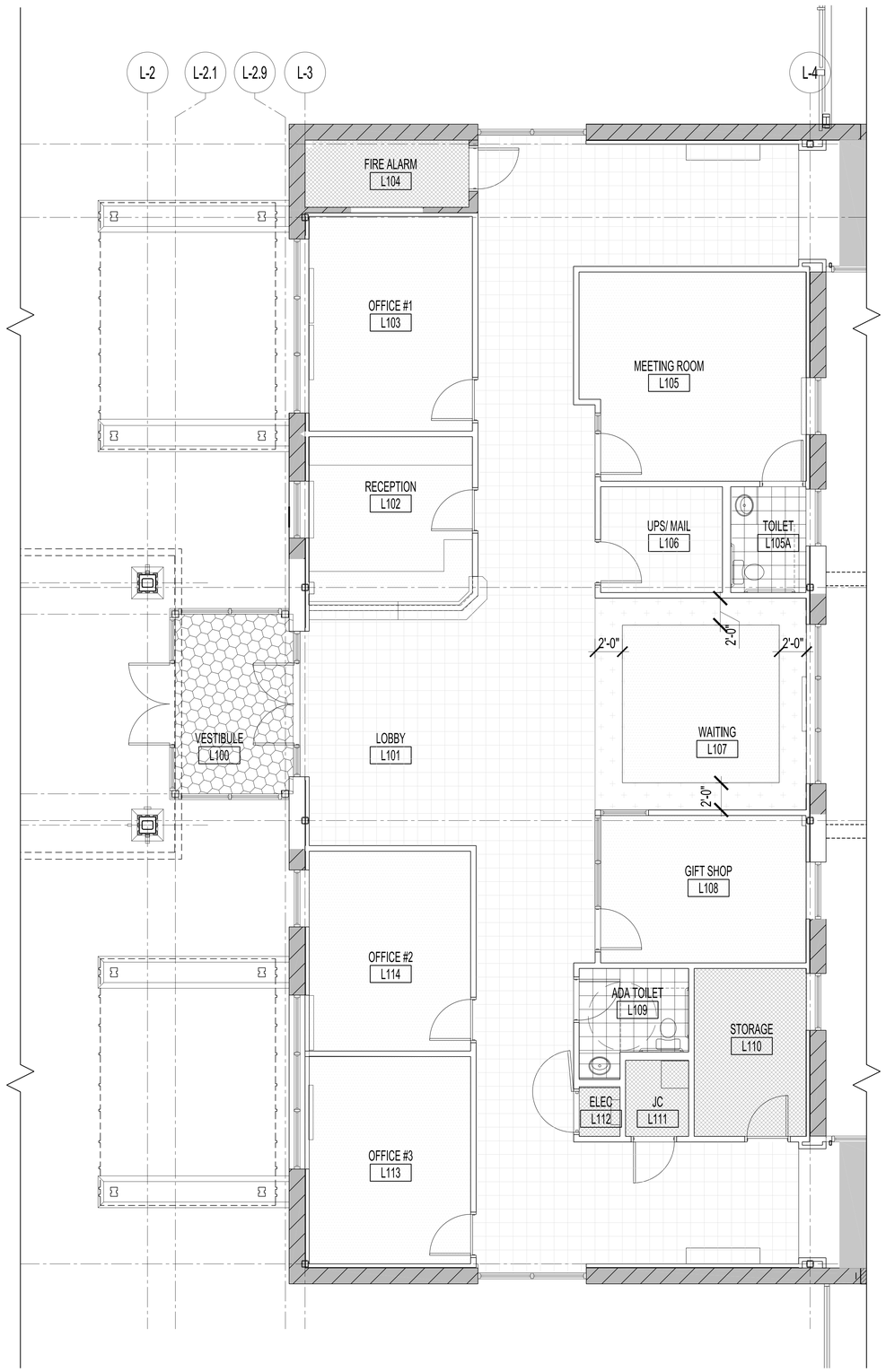
Number	Description	Date

Date: 05/01/17

Project Number: 17000.00

ROOF PLAN AND ROOF DEMOLITION PLAN

AL-102



A1 LOBBY & CANOPY FINISHES PLAN
SCALE: 1/4" = 1'-0"

FINISH SCHEDULE

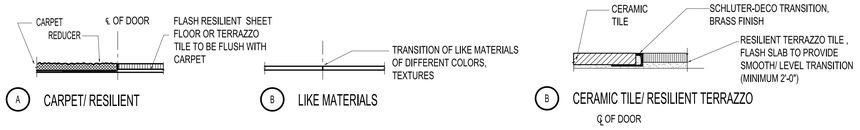
ROOM #	ROOM NAME	FINISHES					CLG MATL	CLG HT	REMARKS
		FLOOR	BASE	WALL	WAINSCOT	CLG			
FIRST FLOOR									
L100	VESTIBULE	WOM	VB	PT	-	-	APC	9'-0"	-
L101	LOBBY	RT	SWB	PT-1	-	PT	GYP	VARIES	-
L102	RECEPTION	CPT	VB	PT-1	-	-	APC	9'-0"	
L103	OFFICE #1	CPT	VB	PT-1	-	-	APC	9'-0"	
L104	FIRE ALARM	SV	VB	PT-1	-	-	APC	9'-0"	
L105	MEETING ROOM	CPT	VB	PT-1	-	-	APC	9'-0"	CHAIR RAIL MOLDING
L105A	TOILET	CT	CT	PT-1	CT	-	APC	9'-0"	-
L106	UPS ROOM	RT	VB	PT-1	-	-	APC	9'-0"	-
L107	WAITING	CPT	SWB	VWC	VWC	PT	GYP	VARIES	CHAIR RAIL MOLDING, CARPET BORDER
L108	GIFT SHOP	CPT	VB	PT-1	-	-	APC	9'-0"	
L109	ADA TOILET	CT	CT	PT-1	CT	-	APC	9'-0"	-
L110	STORAGE	SV	VB	PT-1	-	-	APC	9'-0"	
L111	JC	SV	VB	PT-1	-	-	APC	9'-0"	
L112	ELECTRIC	SV	VB	PT-1	-	-	APC	9'-0"	

FINISH SCHEDULE LEGEND

APC - ACOUSTICAL PANEL CEILING
CPT - CARPET TILE
GYP - GYPSUM BOARD
PT - PAINT
RB - RUBBER BASE
RT - RESILIENT TERRAZZO TILE
SV - SHEET VINYL
SWB - SIMULATED WOOD BASE
VWC - VINYL WALLCOVERING
VB - VINYL BASE
WOM - WALK-OFF MAT

FINISH NOTES

1. REFER TO SPECIFICATION 099999 SECTION FOR INTERIOR FINISHES LEGEND.
2. ALL WALLS SHALL BE PAINTED PT-2 UNLESS OTHERWISE NOTED ON FINISH PLAN OR SCHEDULE
3. INSTALL FLOOR TRANSITIONS WHERE CARPET ABUTS LVT OR TERRAZZO TILE , TANDUS CENTIVA METALEDGE PVC TRANSITION MOLDINGS.



C3 FLOOR FINISH TRANSITIONS
6" = 1'-0"

FINISH PLAN PLAN LEGEND:

12" X 12" TERRAZZO TILE (MATERIAL PROVIDED BY OWNER)
CARPET TILE GENERAL
CARPET TILE BORDER
SHEET VINYL (MATERIAL PROVIDED BY OWNER)
PORCELAIN TILE
WALK-OFF MAT

GENERAL NOTES:

1. ALL SUSPENDED CEILINGS TO BE APC 01 UON.
2. ALL RESIDENT TOILET ROOMS CEILING HEIGHTS AT 9'-0" AFF UON.

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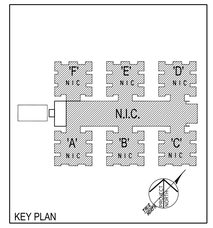

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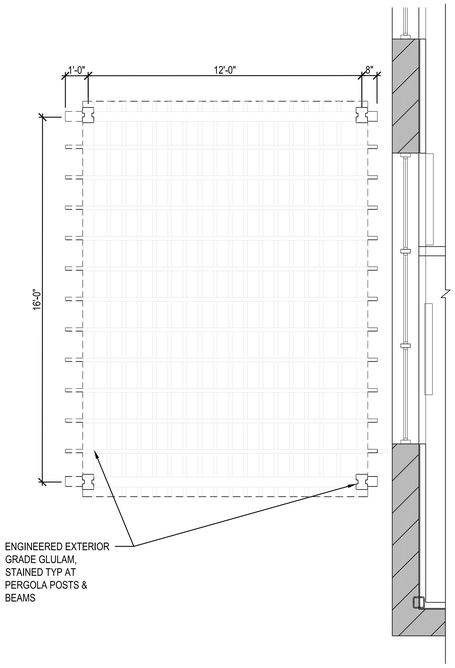
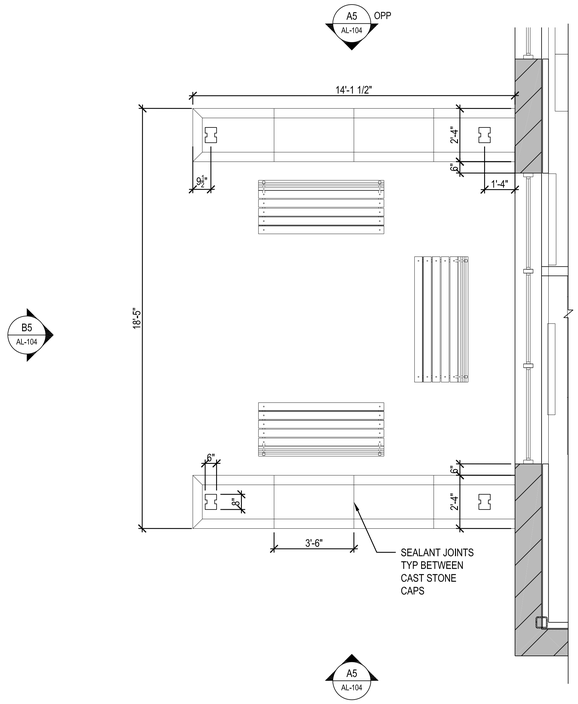
FINISH PLAN & SCHEDULE

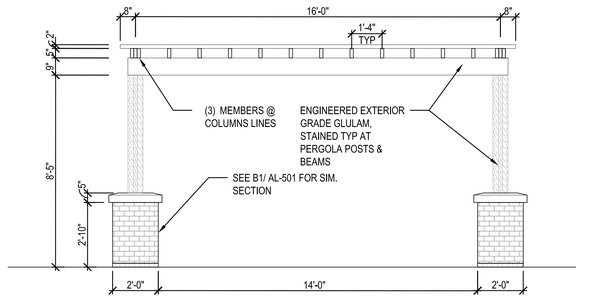
AL-103



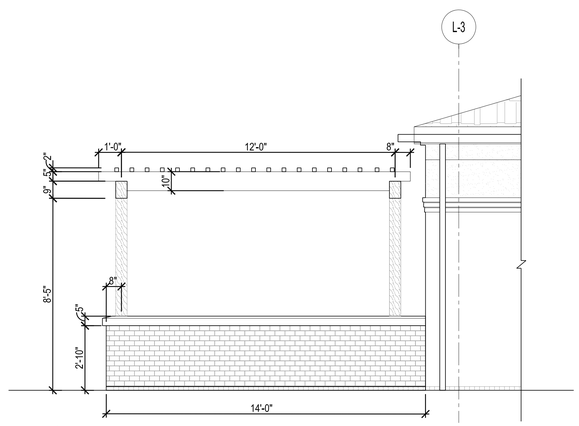
C2 PERGOLA ROOF PLAN
3/8" = 1'-0"



C5 PERGOLA PLAN
3/8" = 1'-0"



B5 PERGOLA ELEVATION
3/8" = 1'-0"



A5 PERGOLA ELEVATION
3/8" = 1'-0"

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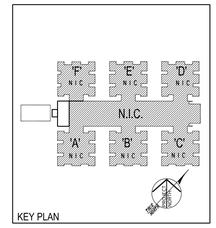

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CONSTRUCTION DOCUMENTS

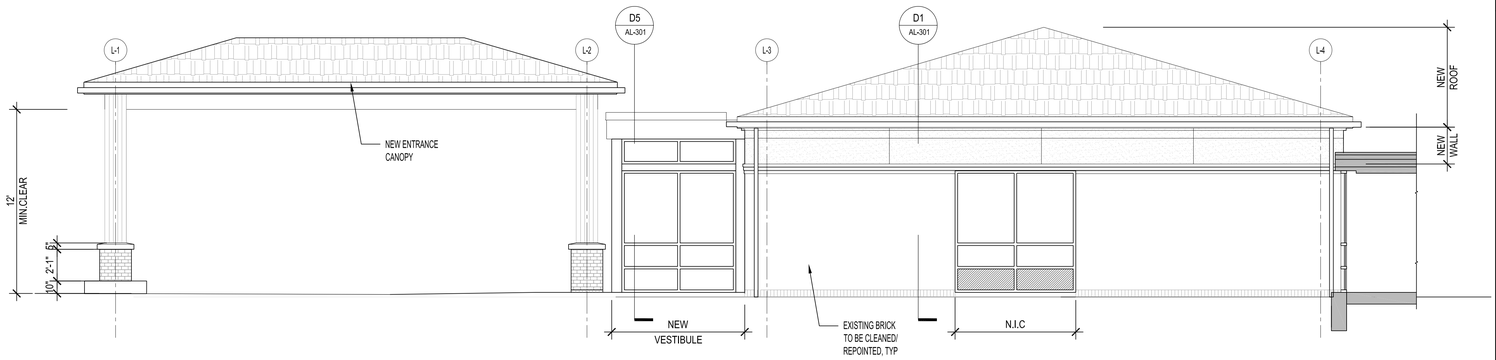
Number	Description	Date

Date: 05/01/17

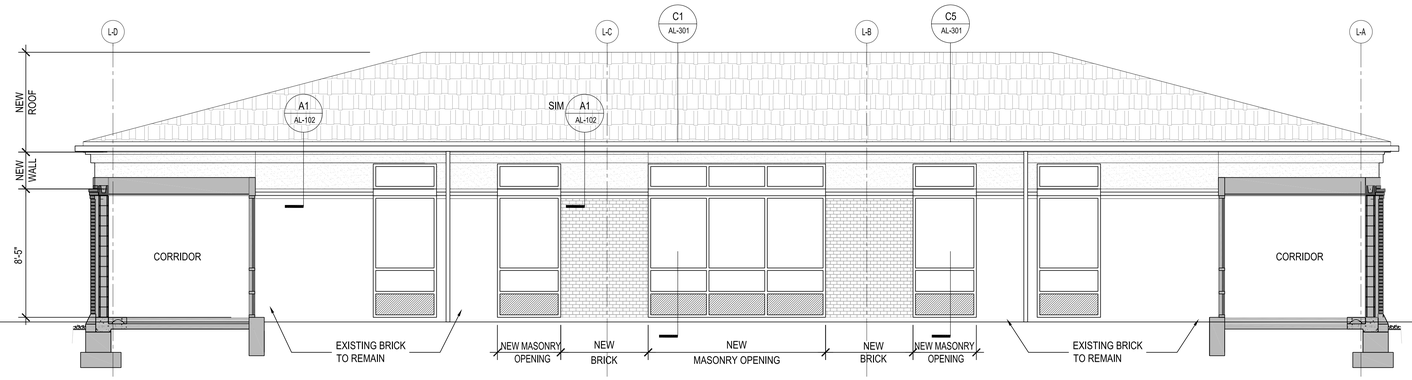
Project Number: 17000.00

PERGOLA PLAN AND ELEVATIONS

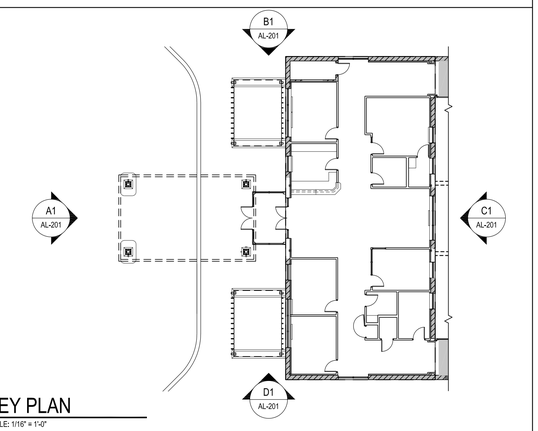
AL-104



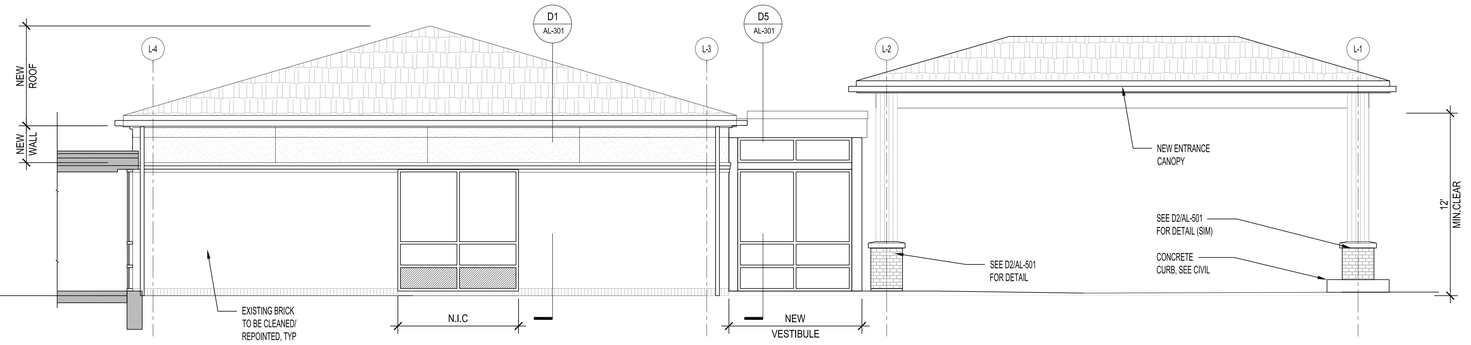
D1 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



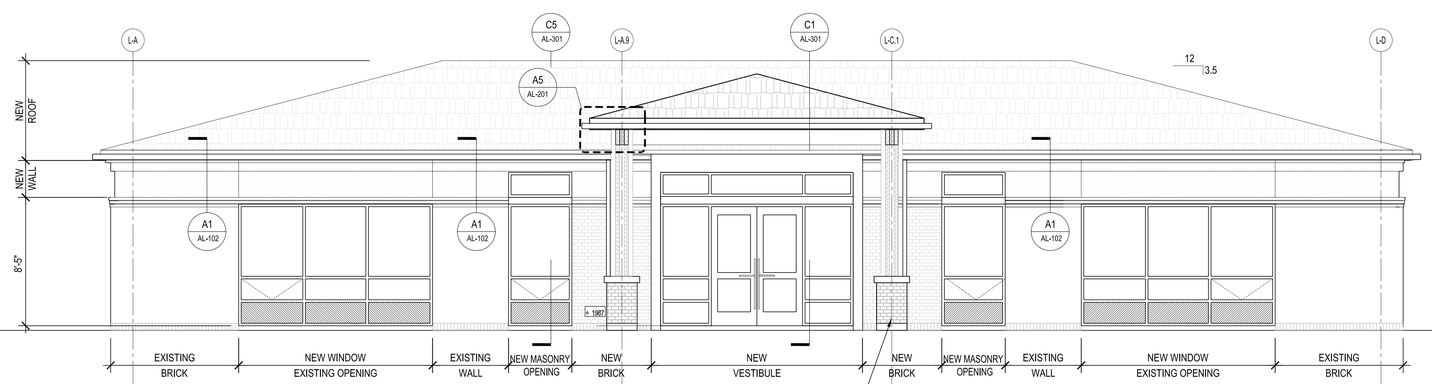
C1 EAST ELEVATION (COURTYARD)
SCALE: 1/4" = 1'-0"



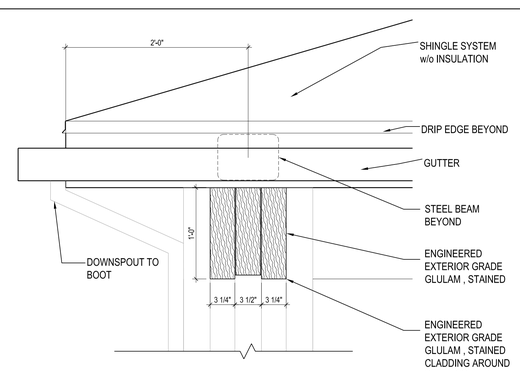
C5 KEY PLAN
SCALE: 1/16" = 1'-0"



B1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



A1 WEST ELEVATION (ENTRY)
SCALE: 1/4" = 1'-0"



A5 ELEVATION DETAIL
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

1. ELEVATIONS ARE INTENDED TO INDICATE GENERAL AREAS OF NEW WORK TO EXISTING WALLS TO REMAIN.
2. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REQUIRED TO FULFILL NEW CONSTRUCTION REQUIREMENTS.
3. VERIFY DIMENSIONS AND EXISTING CONDITIONS AT PROJECT SITE PRIOR TO STARTING WORK.

KEY PLAN

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CONSTRUCTION DOCUMENTS

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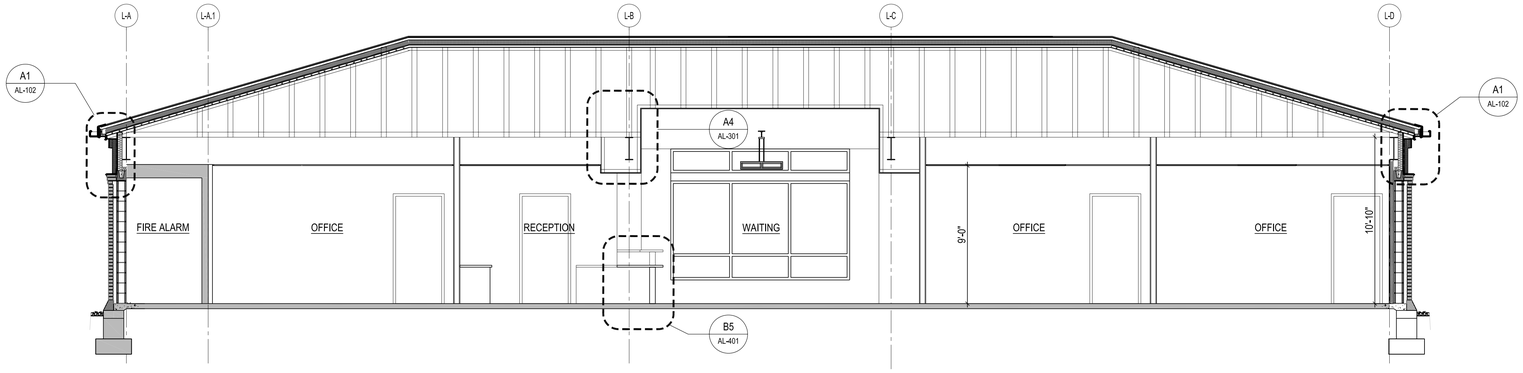
Date: 05/01/17

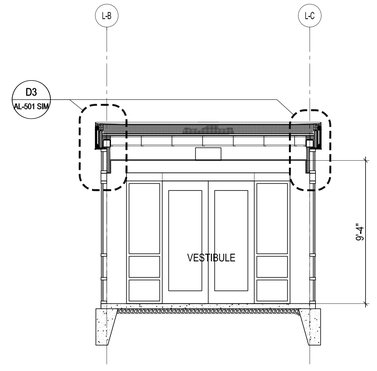
Project Number: 17000.00

EXTERIOR ELEVATIONS

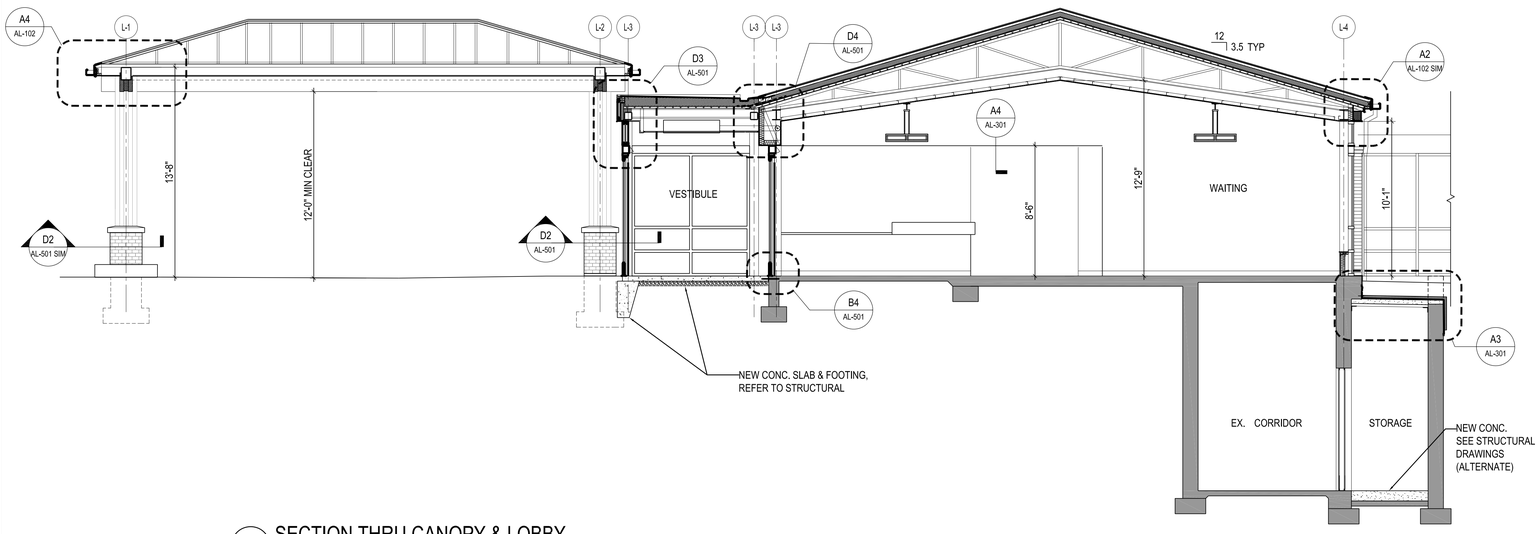
AL-201



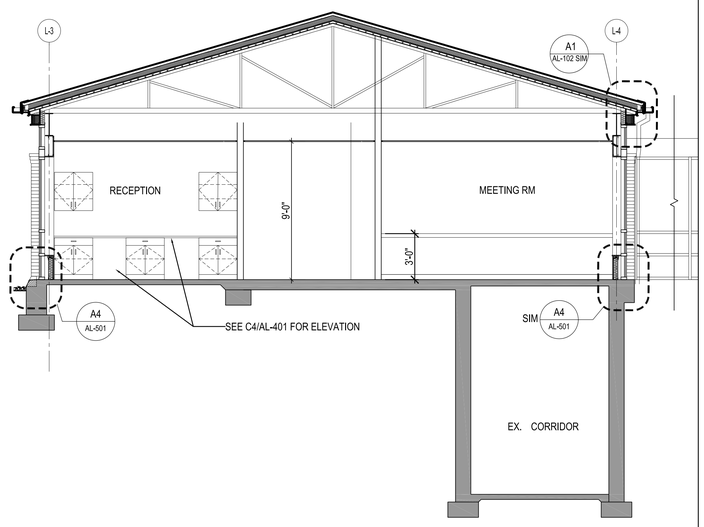
D1 LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"



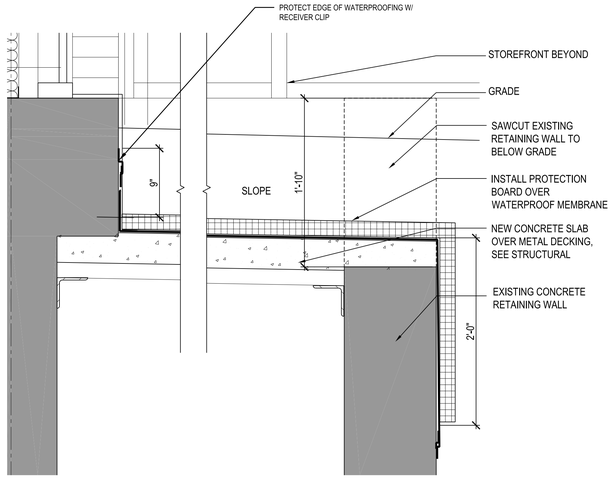
D5 SECTION THRU VESTIBULE
SCALE: 1/4" = 1'-0"



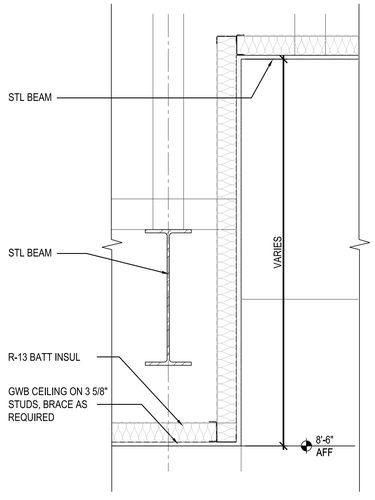
C1 SECTION THRU CANOPY & LOBBY
SCALE: 1/4" = 1'-0"



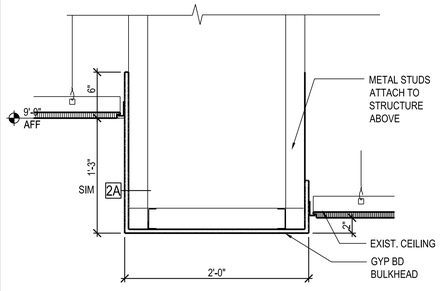
C5 SECTION THRU LOBBY
SCALE: 1/4" = 1'-0"



A3 DETAIL @ EXTERIOR SLAB (ADD ALTERNATE)
SCALE: 1 1/2" = 1'-0"



A4 CEILING DETAIL
SCALE: 1 1/2" = 1'-0"



A5 CEILING BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"

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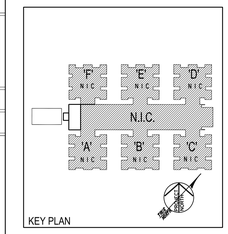

KEY PLAN

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CONSTRUCTION DOCUMENTS

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Date: 05/01/17

Project Number: 17000.00

BUILDING SECTIONS

AL-301

TOILET ACCESSORIES SCHEDULE

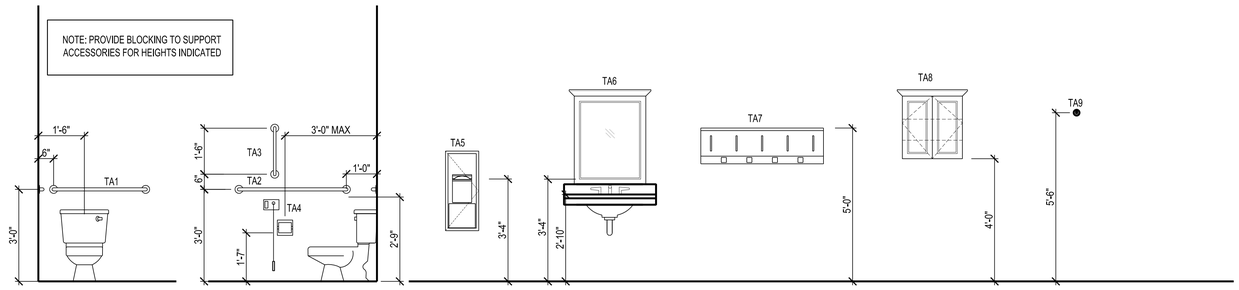
MARK	DESCRIPTION
TA1	36" GRAB BAR
TA2	42" GRAB BAR
TA3	24" GRAB BAR
TA4	TOILET PAPER DISPENSER
TA5	PAPER TOWEL DISPENSER/ DISPOSAL, BOBRICK #369
TA6	MIRROR W/ WOOD FRAME TO MATCH WALL CABINET
TA7	48" W. MOP RACK
TA8	TOWEL PIN
TA9	MEDICINE CABINET, 27" X 30" X 8" BY KRAFTMAID OR EQ.
TA10	UNDERGUARD LAV GUARD - TRUEBRO LAVGUARD #103

GENERAL NOTES:

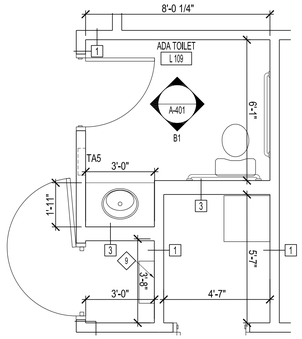
1. PROVIDE FRT WOOD BLOCKING TO SUPPORT ACCESSORIES @ HEIGHTS INDICATED.

2. PROVIDE MOISTURE-RESISTANT (M-R) GYP BD @ WALLS & CEILINGS OF ALL TOILET ROOMS & JANITOR CLOSETS.

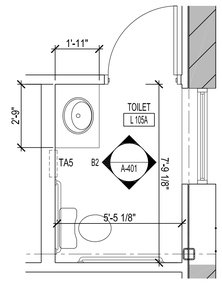
3. ALL ACCESSORIES ARE BY BOBRICK OR APPROVED EQUAL.



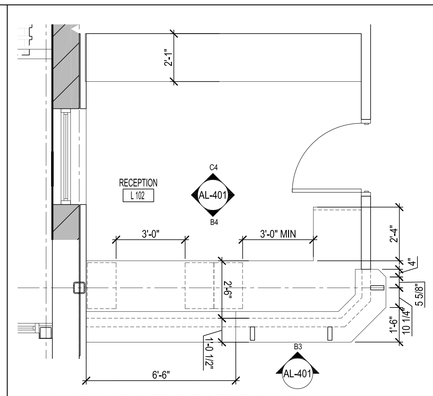
D1 TOILET ACCESSORIES ELEVATIONS
SCALE: 1/2" = 1'-0"



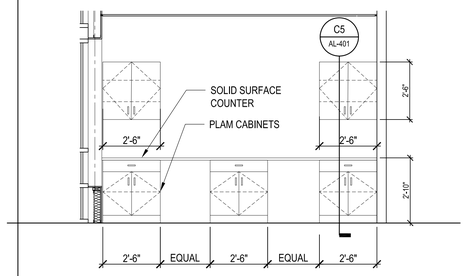
C1 ENLARGED TOILET PLAN
SCALE: 3/8" = 1'-0"



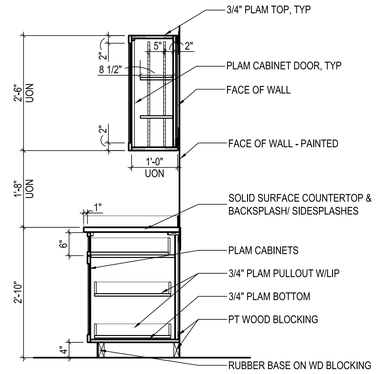
C2 ENLARGED TOILET PLAN
SCALE: 3/8" = 1'-0"



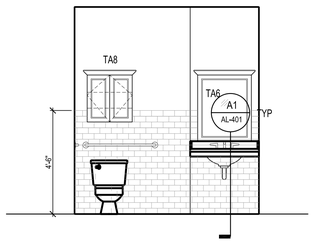
C3 ENLARGED RECEPTION PLAN
SCALE: 3/8" = 1'-0"



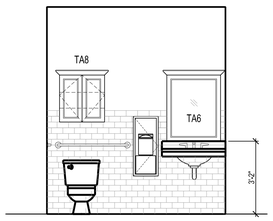
C4 CASEWORK ELEVATION
SCALE: 3/8" = 1'-0"



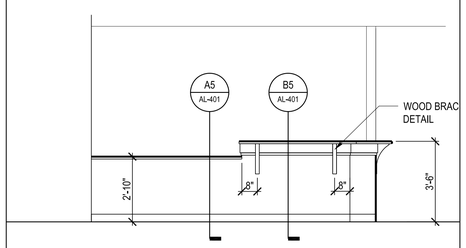
C5 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



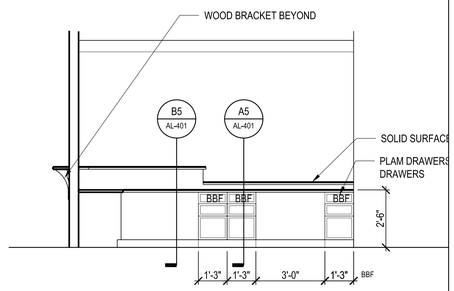
B1 TOILET ELEVATION
SCALE: 3/8" = 1'-0"



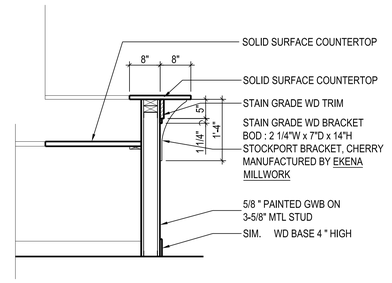
B2 TOILET ELEVATION
SCALE: 3/8" = 1'-0"



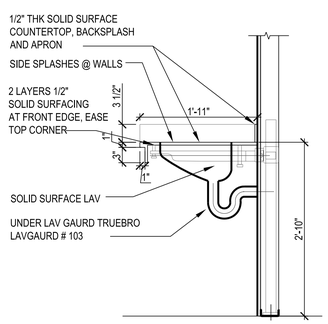
B3 CASEWORK ELEVATION
SCALE: 3/8" = 1'-0"



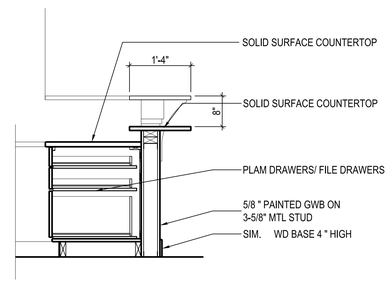
B4 CASEWORK ELEVATION
SCALE: 3/8" = 1'-0"



B5 CASEWORK SECTION
SCALE: 3/4" = 1'-0"



A1 LAVATORY SECTION
SCALE: 1" = 1'-0"



A5 CASEWORK SECTION
SCALE: 3/4" = 1'-0"

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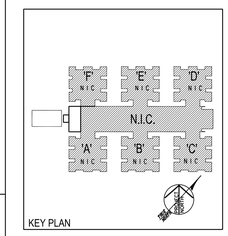

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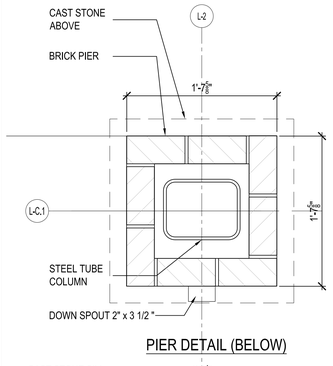
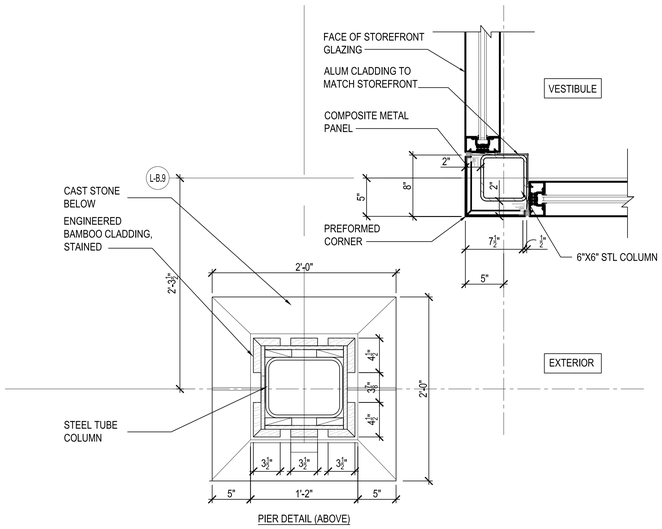
ENLARGED FLOOR PLANS

AL-401

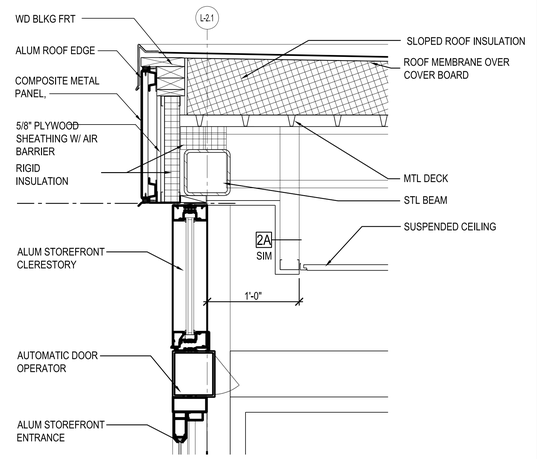


PIER DETAIL (BELOW)

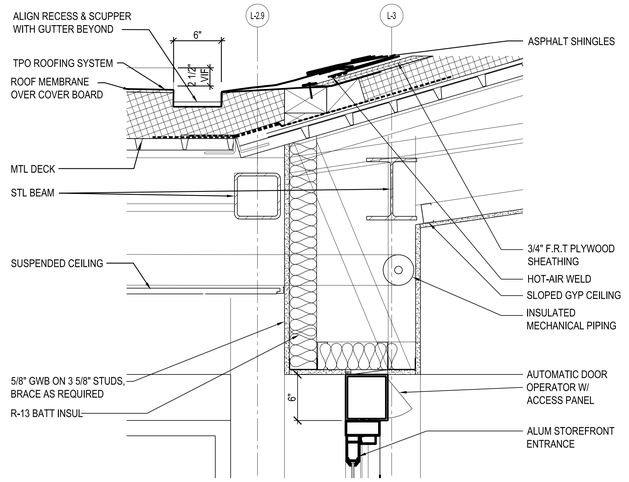


PIER DETAIL (ABOVE)

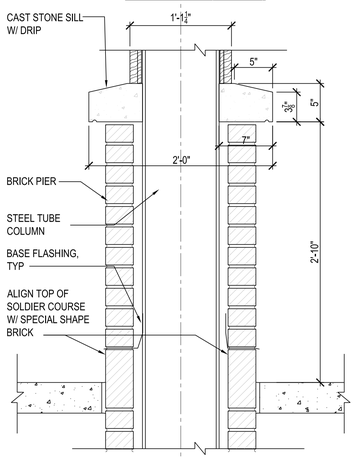
D2 PLAN DETAIL @ VESTIBULE & PIER
1 1/2" = 1'-0"



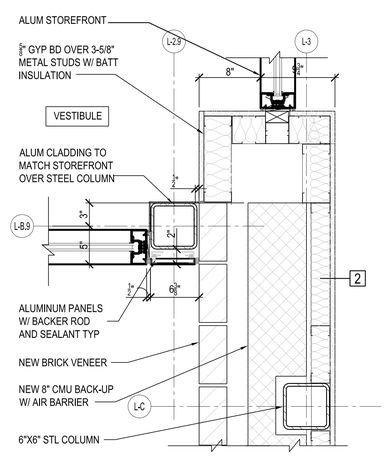
D3 SECTION DETAIL @ VESTIBULE
1 1/2" = 1'-0"



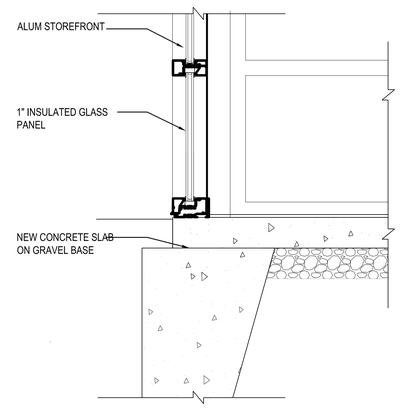
D4 SECTION DETAIL @ VESTIBULE
1 1/2" = 1'-0"



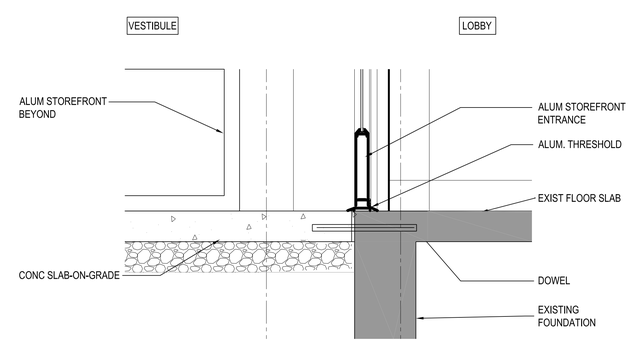
B1 SECTION @ PIER
1 1/2" = 1'-0"



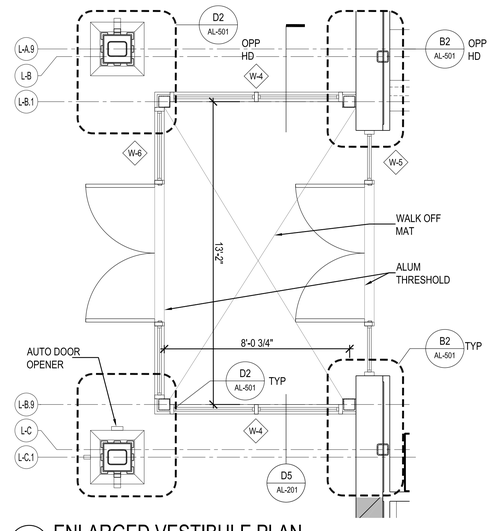
B2 PLAN DETAIL @ VESTIBULE
1 1/2" = 1'-0"



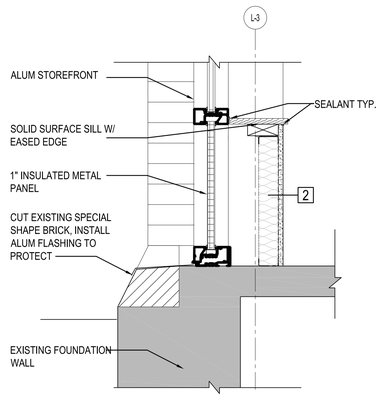
B3 STOREFRONT DETAIL
1 1/2" = 1'-0"



B4 SECTION DETAIL @ VESTIBULE
1 1/2" = 1'-0"



A3 ENLARGED VESTIBULE PLAN
SCALE: 3/8" = 1'-0"



A4 DETAIL @ NEW WINDOW OPENING
1 1/2" = 1'-0"

Little Sisters of the Poor

601 Maiden Choice Lane
Baltimore, MD 21228

Gaudreau, Inc.
810 Light Street, Baltimore, MD 21230
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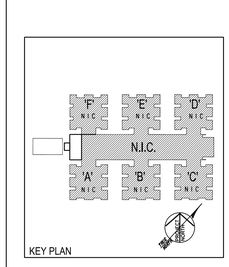


KEY PLAN

Gaudreau, Inc.
ARCHITECTS | PLANNERS
810 Light Street | Baltimore | Maryland 21230
410 . 837 . 5040 | www.gaudreauinc.com

Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland.

License No: 9473 Expiration Date: 08/03/18

CONSTRUCTION DOCUMENTS

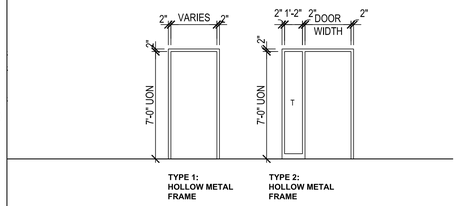
Number	Description	Date

Date: 05/01/17

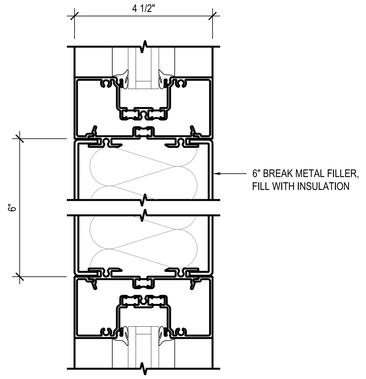
Project Number: 17000.00

PLAN & WALL DETAILS

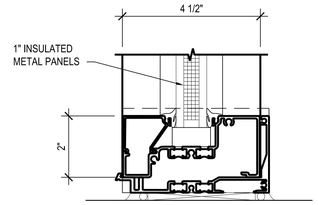
AL-501



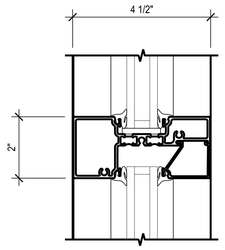
D1 H.M. FRAME TYPES
1/4" = 1'-0"



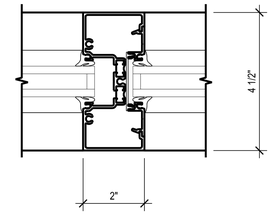
D2 FRAME DETAIL
6" = 1'-0"



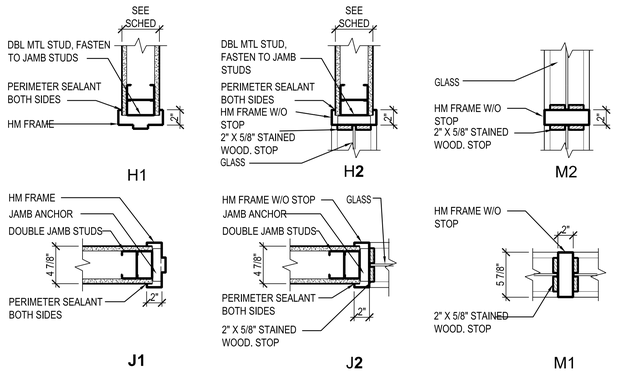
D3 STOREFRONT SILL DETAIL
6" = 1'-0"



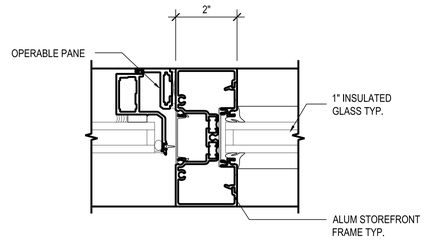
D4 HORIZONTAL STOREFRONT MULLION DETAIL
6" = 1'-0"



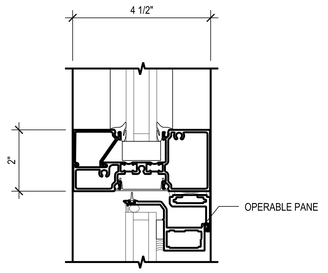
D5 STOREFRONT MULLION DETAIL
6" = 1'-0"



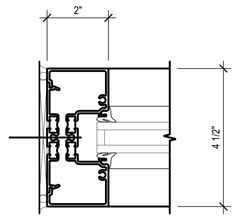
C1 TYPICAL STOREFRONT DETAILS
1 1/2" = 1'-0"



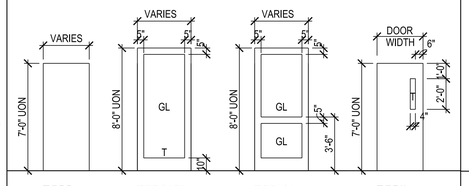
C3 GLASSVENT JAMB @ VERTICAL MULLION
6" = 1'-0"



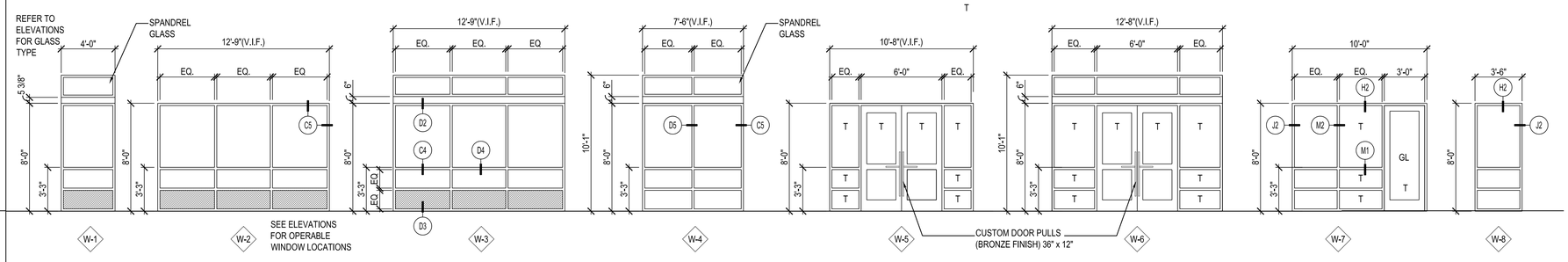
C4 OPERABLE HORIZONTAL MULLION DETAIL
6" = 1'-0"



C5 JAMB/HEAD DETAIL
6" = 1'-0"



B1 DOOR TYPES
1/4" = 1'-0"



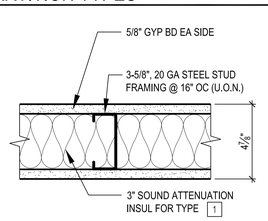
B2 EXTERIOR WINDOW SCHEDULE
1/4" = 1'-0"

1. ALL DETAILS ARE SHEET AL-601 UNLESS NOTED OTHERWISE.
2. ALL FRAMES HAVE DOUBLE THERMAL BREAKS, TYPICAL.

INSULATED METAL PANEL

B5 INTERIOR WINDOW SCHEDULE
1/4" = 1'-0"

PARTITION TYPES



1 NON FIRE- RATED/STC=50

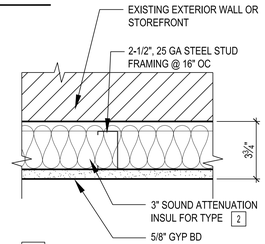
-EXTEND STUDS, GYP BD AND INSUL TO UNDERSIDE OF STRUCTURE

1A 1 HR RATED/STC=50 (UL DES U419)

-EXTEND STUDS & GYP BD TO UNDERSIDE OF STRUCTURE

1B NON FIRE RATED/NON-STC RATED

-EXTEND TO MIN 6" ABOVE FIN CLG-20 GA @16"O.C.

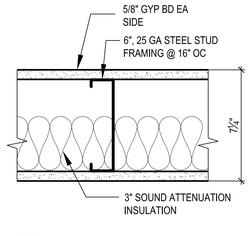


2 INSULATED FURRED WALL

-EXTEND STUDS, GYP BD AND INSUL TO UNDERSIDE OF STRUCTURE

2A FURRED WALL

- EXTEND TO MIN 6" ABOVE FIN CLG



3 NON FIRE RATED/STC=50

-EXTEND STUDS AND TYPE C GYP BD (EA SIDE) AND INSUL TO UNDERSIDE OF STRUCTURE

DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK	DOOR MATL	DOOR TYPE	FRAME MATL	FRAME TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING	HARD-WARE SET #	REMARKS
L100	(2) 3'-0"	7'-10"	1 3/4"	AL	2G	AL	W-6	-	-	-	-	AL-01	AUTO OPERATOR
L101	(2) 3'-0"	7'-10"	1 3/4"	AL	2G	AL	W-5	-	-	-	-	AL-01	AUTO OPERATOR
L102	3'-0"	7'-0"	1 3/4"	SC/PVC	N	HM	1	H-1	J-1	-	-	HW-02	
L103	3'-0"	7'-0"	1 3/4"	SC/PVC	N	HM	1	H-1	J-1	-	-	HW-02	
L104	3'-0"	7'-0"	1 3/4"	SC/PVC	F	HM	1	H-1	J-1	-	-	HW-01	
L105	3'-0"	7'-0"	1 3/4"	SC/PVC	N	HM	2	H-1	J-1	-	-	HW-02	
L105A	3'-0"	7'-0"	1 3/4"	SC/PVC	F	HM	1	H-1	J-1	-	-	HW-03	
L106	3'-0"	7'-0"	1 3/4"	SC/PVC	N	HM	1	H-1	J-1	-	-	HW-02	
L108	3'-0"	7'-0"	1 3/4"	SC/PVC	N	AL	1	H-1	J-1	-	-	HW-02	
L109	3'-0"	7'-0"	1 3/4"	SC/PVC	F	HM	1	H-1	J-1	-	-	HW-03	
L110	3'-0"	7'-0"	1 3/4"	SC/PVC	F	HM	1	H-1	J-1	-	-	HW-02	
L111	3'-0"	7'-0"	1 3/4"	SC/PVC	F	HM	1	H-1	J-1	-	-	HW-01	
L112	3'-0"	7'-0"	1 3/4"	SC/PVC	F	HM	1	H-1	J-1	-	-	HW-01	180 DEGREE SWING
L113	3'-0"	7'-0"	1 3/4"	SC/PVC	N	HM	-	H-1	J-1	-	-	HW-02	
L114	3'-0"	7'-0"	1 3/4"	SC/PVC	N	HM	1	H-1	J-1	-	-	HW-02	

GENERAL WINDOW NOTES

1. SEE SPEC FOR WINDOW TYPES.

HARDWARE SCHEDULE

AL-01 DOOR L100, L101 (HARDWARE BY ALUMINUM DOOR SUPPLIERS)

4 PAIR HINGES
2 EXIT DEVICES
2 OFFSET DOOR PULLS
2 AUTOMATIC DOOR OPERATORS
WEATHER STRIPPING

HW-01 DOOR L104, L112, L111

1 1/2 PAIR HINGES
STOREROOM LOCK WITH LEVER
CLOSER (@ L104 ONLY)
OVERHEAD STOP
SILENCERS

HW-02 DOOR L102, L103, L105, L106, L108, L110. L113, L114

1 1/2 PAIR HINGES
CLASSROOM LOCKSET WITH LEVER
SILENCERS
WALL STOP (OVERHEAD STOP @ DOOR 102)

HW-03 DOOR L105a, I109

1 1/2 PAIR HINGES
PRIVACY LOCKSET WITH LEVER
SILENCERS
WALL STOP

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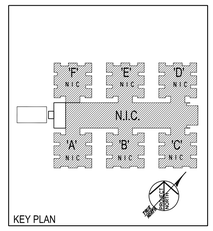

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Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland.
License No: 9473 Expiration Date: 08/03/18

CONSTRUCTION DOCUMENTS

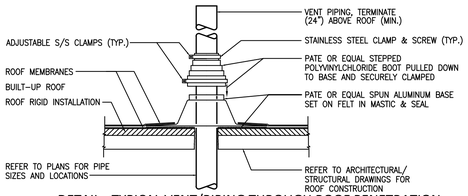
Number	Description	Date

Date: 05/01/17

Project Number: 17000.00

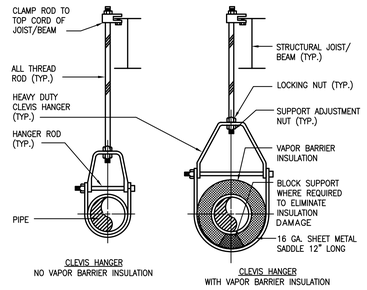
DOOR AND WINDOW SCHEDULE AND DETAILS

AL-601



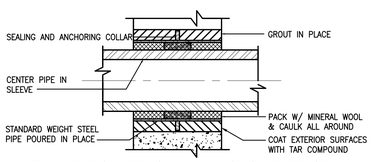
DETAIL - TYPICAL VENT/PIPING THROUGH ROOF PENETRATION

SCALE: NONE



DETAIL - TYPICAL PIPE SUPPORT

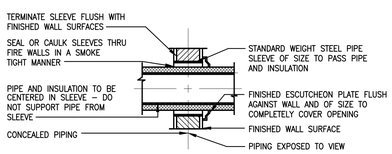
SCALE: NONE



DETAIL - TYPICAL PIPE SLEEVE THROUGH EXTERIOR WALL

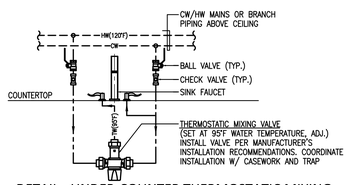
SCALE: NONE

NOTES: 1. REFER TO ARCHITECTURAL DRAWING FOR TYPES OF WALLS & THEIR CONSTRUCTION.
2. PROVIDE SLEEVES @ ALL WALL PENETRATIONS.



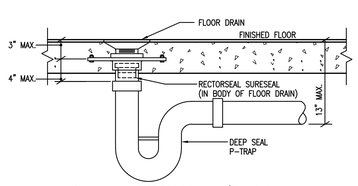
DETAIL - TYPICAL PIPE SLEEVE THROUGH INTERIOR WALL

SCALE: NONE



DETAIL - UNDER-COUNTER THERMOSTATIC MIXING VALVE PIPING CONNECTION

SCALE: NONE



DETAIL - FLOOR DRAIN W/ SURESEAL

SCALE: NONE

MECHANICAL LEGEND

SYMBOL	ABBREV	DESCRIPTION
	SAN	SANITARY PIPE
SW	SW	STORM WATER
CD	CD	CONDENSATE DRAIN
CO	CO	CLEANOUT
V	V	VENT PIPE
CW	CW	COLD WATER
HW	HW	HOT WATER
HWR	HWR	HOT WATER RECIRCULATING
		GLOBE VALVE
		CHECK VALVE
BWV	BWV	BACK WATER VALVE
		FLOW METER FITTING
		COMBINATION BALANCING SHUT–OFF VALVE
		PRESSURE REDUCING VALVE
TP	TP	TRAP PRIMER
		RELIEF VALVE
MAV	MAV	MANUAL AIR VALVE
AAV	AAV	AUTOMATIC AIR VALVE
		STRAINER
		UNION
SA	SA	SHOCK ABSORBER
FS		FLOW SWITCH
PS		PRESSURE SWITCH
		THERMOMETER
		PRESSURE GAUGE
PG	PG	PRESSURE GAUGE TAPPING
		BUTTERFLY VALVE W/ MEMORY STOPS
		MULTI–PURPOSE VALVE
BFP	BFP	REDUCED ZONE BACKFLOW (1013) W/ FUNNEL DRAIN
		PIPE TURNING UP
		PIPE TURNING DOWN
		TEE TURNED UP
		TEE TURNED DOWN
WH	WH	WALL HYDRANT
HB	HB	HOSE BIBB
		SHUTOFF VALVE
R		GAS PRESSURE REGULATOR
		ANGLE STOP
FD	FD	FLOOR DRAIN W/TRAP PRIMING LINE
1 M–5		DETAIL DESIGNATION

ABBREVIATIONS

ABBREV	DESCRIPTION
P–	PLUMBING FIXTURE DESIGNATION
ABV.	ABOVE
A.F.F.	ABOVE FINISHED FLOOR
A.G.	ABOVE GRADE
A.C.C.U.	AIR COOLED CONDENSTING UNIT
A.H.U.	AIR HANDLING UNIT
A.P.D.	AIR PRESSURE DROP
&	AND
ARCH.	ARCHITECTURAL
@	AT
A.T.C.	AUTOMATIC TEMPERATURE CONTROL
B.G.	BELOW GRADE
BTUH	BRITISH THERMAL UNITS PER HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
COMP.	COMPRESSOR
CLG.	CEILING
CONT.	CONTINUATION
DIV.	DIVISION
DN.	DOWN
DR.	DRAIN
DWG.	DRAWING
D.B.	DRY BULB
ELEC.	ELECTRIC
ELEV.	ELEVATION
E.A.T.	ENTERING AIR TEMPERATURE
E.U.H.	ELECTRIC UNIT HEATER
E.W.H.	ELECTRIC WALL HEATER
E.W.T.	ENTERING WATER TEMPERATURE
EXH	EXHAUST AIR
EQPT.	EQUIPMENT
E.S.P.	EXTERNAL STATIC PRESSURE
F.C.U.	FAN COIL UNIT
F.D	FIRE DAMPER
F.L.A.	FULL LOAD AMPS
GAL	GALLON
GPM	GALLONS PER MINUTE
GR.	GRILLE
G.W.B.	GYPSUM WALL BOARD
HP	HORSEPOWER
I.W.	INDIRECT WASTE
INV. ELEV.	INVERT ELEVATION
KW	KILOWATT
L.A.T.	LEAVING AIR TEMPERATURE
L.W.T.	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU'S/HOUR
MFGR.'S	MANUFACTURER'S
MECH.	MECHANICAL
MIN., MAX.	MININUM, MAXIMUM
MTD.	MOUNTED
MU.	MAKE UP
N.F.P.A.	NATIONAL FIRE PROTECTION AGENCY
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.C.	ON CENTER
O.E.D.	OPEN ENDED DUCT
O.A.	OUTDOOR AIR
PSIG	POUNDS PER SQUARE INCH GAUGE
REG.	REGISTER
R.P.M.	REVOLUTION PER MINUTE
RA	RETURN AIR
R.L.A.	RUNNING LOAD AMPS
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SENS.	SENSIBLE
S/S	STAINLESS STEEL
STRUCT.	STRUCTURE
TYP.	TYPICAL
U.G.	UNDERGROUND
VD	VOLUME DAMPER
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
V/ø/Hz	VOLTS/PHASE/HERTZ
W.C.	WATER COLUMN
W.P.D.	WATER PRESSURE DROP
W.B.	WET BULB
W x H x D	WIDTH x HEIGHT x DEPTH
W/	WITH
W	WATTS
WSSC	WASHINGTON SUBURBAN SANITARY COMMISSION

GENERAL PROJECT NOTES

1. UNLESS OTHERWISE INDICATED, WORK IS NEW WORK.
2. UNLESS OTHERWISE INDICATED, PIPING SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE. INTERMEDIATE STRUCTURAL SUPPORTS SHALL BE PROVIDED IN AN APPROVED MANNER AS REQUIRED TO MEET MINIMUM SUPPORT SPACING REQUIRED BY THE SPECIFICATIONS.
3. COORDINATE AND LOCATE STAGING / STORAGE AREA WHERE DIRECTED BY THE OWNER PRIOR TO BEGINNING CONSTRUCTION.
4. COORDINATE THE INSTALLATION OF LIGHTING FIXTURES WITH PIPING, DUCTWORK, AIR DEVICES, SPRINKLERS AND EQUIPMENT BEING INSTALLED IN THE FACILITY SUCH THAT PIPING, DUCTWORK, AIR DEVICES, AND EQUIPMENT DO NOT BLOCK OR IMPEDE LIGHTING.
5. PROVIDE WEATHER TIGHT PIPE SLEEVES AT ROOF, WALL & FLOOR PENETRATIONS.
6. PROVIDE HANGERS, ANCHORS, ETC... ON PIPING PER SUPPORT MANUFACTURER'S RECOMMENDATIONS.
7. INSTALL PIPING SO THAT VALVING IS ACCESSIBLE. PROVIDE ACCESS PANELS PER SPECIFICATIONS.
8. THE SPRINKLER SYSTEM SHALL BE DESIGNED & COORDINATED WITH DUCTWORK, PIPING, LIGHTING, EQUIPMENT AND ARCHITECTURAL REFLECTED CEILING PLANS. NO CHANGE ORDERS SHALL BE ACCEPTED.
9. PROVIDE THE BUILDING WITH A WET PIPE TYPE SPRINKLER SYSTEM TO ADHERE TO NFPA, STATE AND LOCAL FIRE CODES. PROVIDE PIPE MAINS, PIPE BRANCHES, PIPE SUPPORTS, VALVING, SPRINKLER HEADS, INTERCONNECTING ELECTRICAL WIRING, ETC... TO COMPLETELY SPRINKLER THE FACILITY. SYSTEM SHALL BE DESIGNED UNDER ORDINARY HAZARD GROUP I.
10. ROUTE DOMESTIC WATER PIPING, SPRINKLER PIPING, ETC... IN PIPE CHASES AND FURRED OUT WALLS AND ABOVE CEILINGS. NO PIPING SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT OR OWNER.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF, CEILING CONSTRUCTION TYPES AND DETAILS. REFER TO STRUCTURAL DRAWINGS FOR STEEL SIZES AND LOCATIONS.
12. COORDINATE THE INSTALLATION OF SUPPLY, RETURN AND EXHAUST AIR DEVICES, ETC... WITH DUCTWORK, DOMESTIC WATER, SANITARY, STORM WATER PIPING. IF THE INSTALLATION DEVIATES FROM THE CONTRACT DRAWINGS, SERVICEABILITY & MAINTENANCE MUST BE MAINTAINED TO VALVING, EQUIPMENT, ETC...
13. INSTALL EQUIPMENT, IE: AHU'S, HEATING COILS, VAV BOXES, PUMPS, WATER HEATERS, FANS, ETC.... IN SUCH A MANNER AS TO PROVIDE ADEQUATE SPACE FOR MAINTENANCE AND EQUIPMENT ACCESS.
14. ANY SHUTDOWNS OF BUILDING DOMESTIC WATER SERVICES WILL BE COORDINATED WITH BUILDING FACILITIES PERSONNEL.

PLUMBING FIXTURE SCHEDULE

DESIG.	DESCRIPTION	SAN	SW	VENT	CW	HW	MANUFACTURER & MODEL	TRIM AND ACCESSORIES	REMARKS	NOTES
P-1A	WATER CLOSET (TANK)	3"	-	2"	3/4"	-	AMERICAN STANDARD MODEL 2467.100 FINISH: WHITE	SEAT: AMERICAN STANDARD MODEL 5905.100; ELONGATED WITH COVER; FINISH: WHITE	16-1/2"HIGH, FLOOR MOUNTED, ELONGATED ADA COMPLIANT 1.28 GALLONS PER FLUSH	1,3,4,5
P-3A	LAVATORY (COUNTERTOP)	1-1/2"	-	1-1/2"	1/2"	1/2"	AMERICAN STANDARD OVALYN MODEL 0496.221	FAUCET: DELTA 3538-RBMPU-DST MCQUIRE 155A, 8912-C P-TRAP MCQUIRE 165LK CONNECTION	FAUCET: 1.5 GPM	1,3
P-4	SERVICE SINK (FLOOR MOUNTED)	3"	-	2"	3/4"	3/4"	FIAT: MSB 2424	FIAT FAUCET: 830-AA; ALUMINUM BUMPER GUARD, HOSE & BRACKET, MOP HANGER	24"x24" MOLDED STONE SINK	1,3

NOTES:
1. COORDINATE LOCATION OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE FINAL PLUMBING CONNECTIONS TO EQUIPMENT PROVIDED UNDER ANOTHER DIVISION.
3. COORDINATE PLUMBING FIXTURE FINISH WITH ARCHITECTURAL DRAWINGS.
4. COORDINATE WITH WALL THICKNESS.
5. CONTRACTOR SHALL COORDINATE LEFT OR RIGHT SIDE TRIP WITH ARCHITECTURAL DRAWINGS.

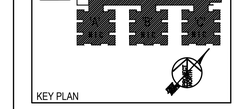
Little Sisters of the Poor

601 Maiden Choice Lane
Baltimore, MD 21228

Gaudreau, Inc.
810 Light Street, Baltimore, MD 21230
410.837.5040

JennErik Engineering, Inc.
8833 Belair Road, Notingham, MD 21236
410.870.1300

Skarda And Associates, Inc.
2439 North Charles Street, Baltimore, MD 21218
410.366.9384



KEY PLAN

Gaudreau, Inc.
ARCHITECTS | PLANNERS
810 Light Street | Baltimore | Maryland 21230
410 . 837 . 5040 | www.gaudreauinc.com

Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland.
License No: 19966 Expiration Date: 03/04/2019

PERMIT DOCUMENTS

Number	Description	Date
-	Permit Set	04.21.2017
-	Bid Set	05.01.2017

Date: 05/01/2017

Project Number: 17000.00

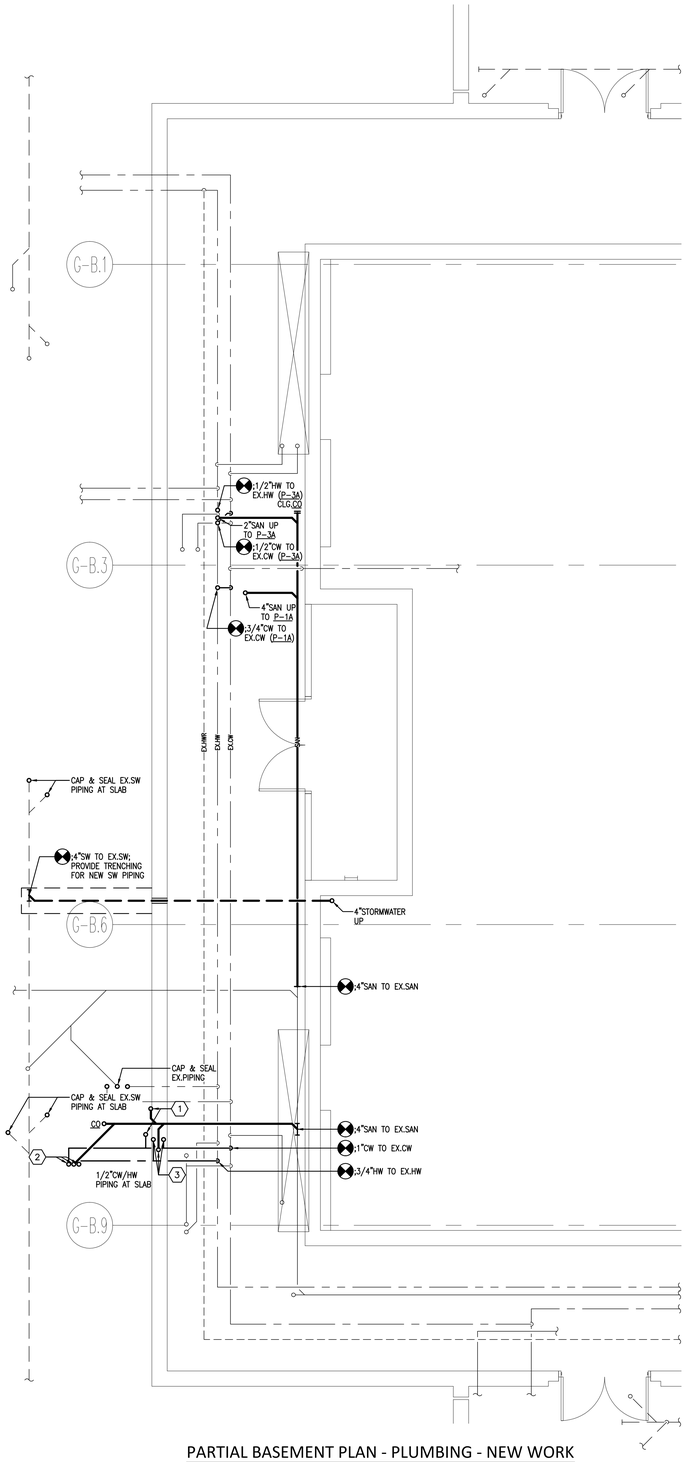
PLUMBING
LEGEND, NOTES
& ABBREVIATIONS
LOBBY & CANOPY

P-001

JEI #13056F

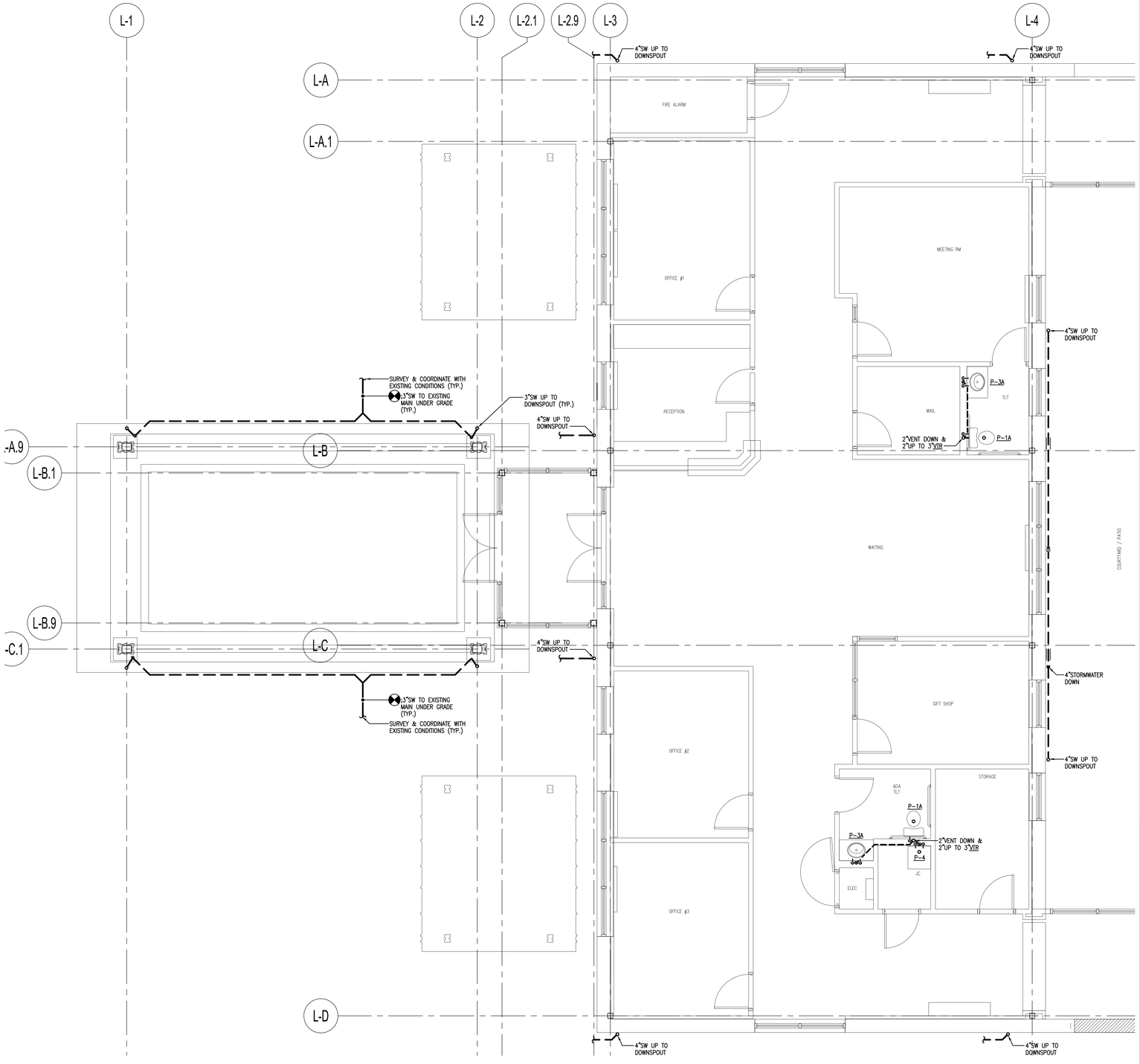
SPECIFIC NOTES (REFER TO P-101 WHERE INDICATED):

1. 4"SANITARY, 3/4"COLD WATER UP TO SERVE P-1A WATER CLOSET.
2. 2"SANITARY, 1/2"COLD/HOT WATER UP TO SERVE P-3A LAVATORY.
3. 3"SANITARY, 3/4"COLD/HOT WATER UP TO SERVE P-4 SERVICE SINK.



PARTIAL BASEMENT PLAN - PLUMBING - NEW WORK

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



LOBBY & CANOPY FLOOR PLAN - PLUMBING - NEW WORK

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

NOTES:
1.) CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

0 2' 4' 8'

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

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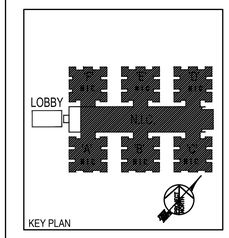

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PERMIT DOCUMENTS

Number	Description	Date
-	Permit Set	04.21.2017
-	Bid Set	05.01.2017

Date: 05/01/2017

Project Number: 17000.00

LOBBY & CANOPY FLOOR PLAN PLUMBING NEW WORK

P-101

JEI #13056F

EXHAUST FAN SCHEDULE

DESIG.	AREA SERVING	DUTY	CFM	E.S.P. (IN.WC.)	FAN SPEED (RPM)	TYPE	DRIVE	ELECTRIC W / HP, VOLTS-PH	NOTES	MANUFACTURER / MODEL (OR APPROVED EQUAL)
EF-L-1	MEETING TOILET ROOM	BATHROOM EXHAUST	150	0.25	1,050	CENTRIFUGAL	DD	128 W, 120-1	1	GREENHECK SP-B150
EF-L-2	ADA TOILET ROOM	BATHROOM EXHAUST	150	0.25	1,050	CENTRIFUGAL	DD	128 W, 120-1	1	GREENHECK SP-B150
EF-L-3	JAN CLOSET	EXHAUST	75	0.25	900	CENTRIFUGAL	DD	21 W, 120-1	1	GREENHECK SP-B90
EF-L-4	BSEMENT STORAGE ROOM	EXHAUST	250	0.25	1,000	CENTRIFUGAL	DD	67 W, 120-1	1	GREENHECK SP-A250

DRIVE AND TYPE:
BD BELT DRIVEN
DD DIRECT DRIVEN

NOTES:
1. FAN SHALL BE CONTROLLED VIA DIV 26.

UNIT HEATER SCHEDULE

DESIG.	SERVING	UNIT SIZE	EWT	LWT	GPM	WPD FT.	CFM	TOTAL MBH	ELECTRIC W	MCA	MOCP	VOLTS-PH	MANUFACTURER / MODEL	NOTES
UH-1	VESTIBULE	03	180	160	1.7	1.7	300	34.6	1/60 HP	0.3	15.0	120V-1	RITTLING RFRC-420-03	1,2,3,4

NOTES:
1. HEATER SHALL BE HORIZONTAL, CEILING, RECESSED FLUSH MOUNTED.
2. DISCONNECT SWITCH PROVIDED UNDER DIVISION 26.
3. CONTRACTOR SHALL COORDINATE RIGHT AND LEFT HAND PIPING CONNECTIONS WITH THE CONTRACT DRAWINGS.
4. COIL SHALL BE TWO ROW.

HOT WATER BASEBOARD SCHEDULE

BBH-#	AREA SERVED	OVERALL LENGTH (FT) (IN)	ACTIVE LENGTH (FT) (IN)	BTUH/ FT	TOTAL BTUH	EWT (F)	LWT (F)	TOTAL GPM	MAX WPD (PSIG)	FIN SIZE (IN.^2)	FIN PER FOOT	# ROWS	CONN. (IN.)	TYPE	MANUFACTURER /MODEL	NOTES
L-1	OFFICE #3	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-2	OFFICE #2	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-3	OFFICE #2	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-4	RECEPTION	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-5	OFFICE #1	8 - 6	8 - 0	1,140	9,120	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-6	MEETING	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-7	TOILET ROOM	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-8	WAITING	8 - 6	8 - 0	1,140	9,120	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3
L-9	GIFT SHOP	4 - 6	4 - 0	1,140	4,560	180	160	1.0	0.5	4.25	48	1	3/4"	PEDESTAL	RITTLING PBG 3/4C"X4-1/4"X4-1/4"-48	1,2,3

NOTES:
1. CONTRACTOR SHALL VERIFY EXACT LENGTHS, LOCATIONS AND OVERALL HEIGHT WITH THE ARCHITECTURAL DRAWINGS.
2. PROVIDE ALL NECESSARY TRIM AND ACCESSORIES INCLUDING END CAPS, WALL BRACKETS, CORNERS, ETC. FOR A COMPLETE SYSTEM.
3. HEATERS SHALL BE WALL MOUNTED; PROVIDE HARDWARE FOR MOUNTING. UNITS SHALL HAVE A FINISHED BACK; COLOR AS SELECTED BY THE ARCHITECT.

AIR DEVICE SCHEDULE

DESIGN.	DUTY	TITUS MODEL OR EQUAL	DESCRIPTION	FINISH	ACCESSORIES	NOTES
LS-1	SUPPLY	ML-38	ALUMINUM, MODULINEAR SLOT SUPPLY DIFFUSER, 3/4" SLOTS 180 DEG. ADJ. PATTERN CONTROLLER	WHITE	OBD	1,2,3,4,6,7
SAD-1	SUPPLY	TDC	STEEL, LOUVERED FACE SUPPLY DIFFUSER, 4-WAY PATTERN 24"x24" FACE, ROUND NECK	WHITE	OBD,STR	1,2,3,4,5
RAG-1	RETURN	PAR	STEEL, PERFORATED, FLUSH FACE, CEILING GRILLE, 24"x24" FACE, 1/2" GRILLE	WHITE		1,2,3

NOTES:
1. VERIFY FINISH WITH ARCHITECT.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING BORDER TYPES, MOUNTING FRAMES AND FASTENINGS WITH REFLECTED CEILING PLAN AND CEILING TYPES ON ARCHITECTURAL DRAWINGS.
3. CONTRACTOR IS RESPONSIBLE FOR QUANTITIES AND SIZES.
4. AIR QUANTITIES AND NECK SIZES SHALL BE AS NOTED ON DRAWINGS.
5. PROVIDE 4-WAY BLOW PATTERN DIFFUSER, UNLESS OTHERWISE NOTED ON DRAWINGS.
6. PROVIDE AIR DEVICE WITH FIELD FABRICATED PLENUM BOX. PLENUM BOX SHALL MATCH THE SIZE OF THE ACTIVE LENGTH OF THE SLOT DIFFUSER.
7. VERIFY TOTAL LENGTH OF LINEAR SLOT DIFFUSER WITH ARCHITECHURAL DRAWINGS. LENGTHS SHOWN ON THE MECHANICAL DRAWINGS ARE ACTIVE LENGTHS. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRIM AND ACCESSORIES FOR A COMPLETE, FINISHED SLOT DIFFUSER.

ACCESSORIES:
OBD OPPOSED BLADE DAMPER
STR SQUARE TO ROUND NECK ADAPTER

FAN COIL UNIT SCHEDULE

FCU NO.	SERVING	CABINET TYPE	FAN SA CFM	FAN E.S.P. (IN.W.C.)	FAN MOTOR FLA	FAN MOTOR TYPE	FAN MOTOR HP	MIN. OA CFM	HEATING COIL DATA EWT (F)	HEATING COIL DATA LWT (F)	HEATING COIL DATA EAT DB (F)	HEATING COIL DATA LAT DB (F)	HEATING COIL DATA CAP. (MBH)	HEATING COIL DATA GPM	HEATING COIL DATA MAX WPD (FT)	CHILLED WATER COIL DATA EWT (F)	CHILLED WATER COIL DATA LWT (F)	CHILLED WATER COIL DATA EAT DB (F)	CHILLED WATER COIL DATA EAT WB (F)	CHILLED WATER COIL DATA LAT DB (F)	CHILLED WATER COIL DATA LAT WB (F)	CHILLED WATER COIL DATA SENS. (MBH)	CHILLED WATER COIL DATA TOTAL CAP. (MBH)	CHILLED WATER COIL DATA TOTAL NOMINAL TONS	CHILLED WATER COIL DATA GPM	CHILLED WATER COIL DATA MAX WPD (FT)	ELECTRICAL MCA	ELECTRICAL MAX FUSE SIZE	ELECTRICAL VOLTS-PH	NOTES	ACCESSORIES	TRANE MODEL (OR APPROVED EQUAL)
L-1	OFFICE 2, OFFICE 3, ENTRY	HORZ	980	0.5	6.7	ECM	1.00	130	180	160	64	95	31.4	3.2	2.3	44	56	78	65	54.0	53	23.0	17.5	2.0	4.0	6.9	6.7	15	208-1	1,2,3,4	CO, F, SP, TW, RT	BCXD-24
L-2	WAITING, GIFT SHOP, SE CORRIDOR	HORZ	1,100	0.5	6.7	ECM	1.00	170	180	160	62	91	31.4	3.2	2.3	44	56	78	65	54.0	53	25.5	18.5	2.0	4.0	6.9	6.7	15	208-1	1,2,3,4	CO, F, SP, TW, RT	BCXD-24
L-3	OFFICE 1, RECEPTION, NW CORRIDOR, UPS	HORZ	975	0.5	6.7	ECM	1.00	100	180	160	66	95	31.4	3.2	2.3	44	56	77	65	54.0	53	24.5	19.0	2.0	4.0	6.9	6.7	15	208-1	1,2,3,4	CO, F, SP, TW, RT	BCXD-24
L-4	MEETING	HORZ	600	0.5	6.7	ECM	1.00	110	180	160	61	110	31.4	3.2	2.3	44	56	78	66	54.0	53	14.0	10.5	2.0	4.0	6.9	6.7	15	208-1	1,2,3,4	CO, F, SP, TW, RT	BCXD-24

NOTES:
1. VENTILATION AIR SHALL BE PROVIDED VIA ROOF MOUNTED GOOSENECK. PROVIDE FIELD FABRICATED RETURN AIR CONNECITON BOX.
2. UNIT SHALL BE HAVE FRONT SUPPLY, REAR RETURN.
3. PROVIDE OUTSIDE AIR DUCT CONNECTIONS WITH A MOTOR OPERATED DAMPER.
4. DISCONNECT SWITCHES SHALL BE PROVIDED BY DIVISION 16.

ACCESSORIES:
CO CONDENSATE OVERFLOW SWITCH
DD DOUBLE DEFLECTION SUPPLY GRILLE
F 2"MERV8 PLEATED
SP SINGLE POINT POWER CONNECTION
TSS THREE SPEED SWITCH
TW TWO-WAY MOTORIZED VALVE
RT REMOTE THERMOSTAT

WSHP TYPES:
CONS CONSOLE UNIT-FLOOR MOUNTED
HORZ HORIZONTAL UNIT
VERT VERTICAL UNIT-FLOOR MOUNTED

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV.	ABOVE	KW	KILOWATTS
ACCU	AIR COOLED CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE
A.F.F.	ABOVE FINISHED FLOOR	LBS.	POUNDS
AHU	AIR HANDLING UNIT	LBS/HR	POUNDS PER HOUR
AMPS	AMPERES	LE-#	LAB EQUIPMENT
APD	AIR PRESSURE DROP	LS	LINEAR SLOT
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
ATC	AUTOMATIC TEMPERATURE CONTROLS	MBH	THOUSANDS OF BTUH'S/HOUR
BTUH	BRITHISH THERMAL UNITS PER HOUR	MCA	MINIMUM CIRCUIT AMPS
CAP.	CAPACITY	MECH.	MECHANICAL
CFM	CUBIC FEET PER MINUTE	MIN.	MINIMUM
CLG.	CEILING	MOCP	MAXIMUM OVERCURRENT PROTECTION
COMB.	COMBUSTION	MTD.	MOUNTED
COMP.	COMPRESSOR	OA	OUTDOOR AIR
COND.	CONDENSER	OED	OPEN ENDED DUCT
CONT.	CONTINUED	QTY.	QUANTITY
CUH	CABINET UNIT HEATER	RAR	RETURN AIR GRILLE
DB	DRY BULB	RHC	REHEAT COIL
DESIGN.	DESIGNATION	RLA	RUNNING LOAD AMPS
DIV.	DIVISION	RPM	REVOLUTIONS PER MINUTE
DN.	DOWN	RTU	ROOFTOP UNIT
DR.	DRAIN	SAD	SUPPLY AIR DIFFUSER
DWG.	DRAWINGS	SAR	SUPPLY AIR REGISTER
EAG	EXHAUST AIR GRILLE	SEER	SEASIONAL ENERGY EFFICIENCY
EAT	ENTERING AIR TEMPERATURE	SENS.	SENSIBLE
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFF.	EFFICIENCY	SQFT	SQUARE FEET
ELEC.	ELECTRICAL	TAG	TRANSFER AIR GRILLE
EQPT.	EQUIPMENT	TEMP.	TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE	TOT.	TOTAL
EVAP.	EVAPERATOR	TYP.	TYPICAL
EWH	ELECTRIC WALL HEATER	TYP-#	TYPICAL OF "X" (NUMBER)
EX.	EXISTING	V-PH	VOLTS-PHASE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	VAV	VARIABLE AIR VOLUME
FD	FIRE DAMPER	VD	VOLUME DAMPER
FLA	FULL LOAD AMPS	VFD	VARIABLE FREQUENCY DRIVE
FPM	FEET PER MINUTE	W/	WITH
GR	GRILLE	WB	WET BULB
GWB	GYPSUM WALL BOARD	WH	WATER HEATER
HP	HORSEPOWER		
IN.	INCHES		
IN.WC.	INCHES OF WATER COLUMN		

MECHANICAL LEGEND

SYMBOL	ABBREV	DESCRIPTION
T		THERMOSTAT, EQUIPMENT NO. CONTROLLED
TH		COMBINATION THERMOSTAT/HUMIDISTAT; EQUIPMENT NO. CONTROLLED
DD		DUCT DETECTOR
MOD		MOTOR OPERATED DAMPER
CO2		CARBON DIOXIDE SENSOR
CFM	CFM	CUBIC FEET PER MINUTE
ø	DIA.	DIAMETER
		SUPPLY DUCT TURNED UP
		SUPPLY DUCT TURNED DOWN
		RETURN DUCT TURNED UP
		RETURN DUCT TURNED DOWN
		EXHAUST DUCT TURNED UP
		EXHAUST DUCT TURNED DOWN
VD	VD	MANUAL VOLUME DAMPER
MOD	MOD	MOTOR OPERATED DAMPER
FD	FD	FIRE DAMPER
BDD	BDD	BACKDRAFT DAMPER
	OBD	OPPOSED BLADE DAMPER
R		INCLINED DUCT RISE
D		INCLINED DUCT DOWN
		MATCH LINE
		TURNING VANES
AD	AD	ACCESS DOOR
		REMOVE AND RELOCATE AIR DEVICE
		CONNECT TO EXISTING

VENTILATION SCHEDULE FOR LOBBY

DESCRIPTION	AREA (SQFT) (Az)	AREA OUTDOOR AIR RATE PER VMC TABLE 403.3 (Ra)	AREA OUTDOOR AIR (Az*Ra)	OCCUPANT LOAD RATE PER VMC TABLE 403.3 (PEOPLE/1000 SQFT)	OCCUPANCY Az*column G/1000 (Pz)	OCCUPANT OUTDOOR AIR RATE PER VMC TABLE 403.3 (Rp)	OCCUPANT OUTDOOR AIR (Pz*Rp)	BREATHING ZONE OUTDOOR AIR (Vbz=RpPz+RaAz)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	ZONE OUTDOOR AIR (Voz=Vbz/Ez)
OFFICE #2	178	0.06	11	5	1	5	5	16	0.8	20
OFFICE #3	190	0.06	11	5	5	5	25	36	0.8	46
ENTRY	361	0.06	22	10	4	5	20	42	0.8	52
								FCU L-1		117
STORAGE	98	0.12	12	0	0	5	0	12	0.8	15
GIFT SHOP	150	0.12	18	15	3	7.5	23	41	0.8	51
WAITING	240	0.06	14	30	8	5	40	54	0.8	68
SE CORRIDOR	400	0.06	24	0	0	5	0	24	0.8	30
								FCU L-2		163
UPS	81	0.12	10	0	0	5	0	10	0.8	12
RECEPTION	161	0.06	10	5	1	5	5	15	0.8	18
OFFICE #1	190	0.06	11	5	1	5	5	16	0.8	21
NW CORRIDOR	414	0.06	25	0	0	5	0	25	0.8	31
								FCU L-3		82
MEETING	245	0.06	15	50	13	5	65	80	0.8	100
								FCU L-4		100

GENERAL PROJECT NOTES

1. UNLESS OTHERWISE INDICATED, WORK IS NEW WORK.
2. EXISTING WORK IS EXISTING TO REMAIN UNLESS OTHERWISE INDICATED.
3. COORDINATE AND LOCATE STAGING/STORAGE AREA WHERE DIRECTED BY THE OWNER PRIOR TO BEGINNING CONSTRUCTION.
4. THE SPRINKLER SYSTEM SHALL BE DESIGNED & COORDINATED WITH NEW AND EXISTING DUCTWORK, PIPING, LIGHTING, EQUIPMENT AND ARCHITECTURAL REFLECTED CEILING PLANS. EXISTING SPRINKLER HEADS SHALL BE REMOVED AND REPLACED WITH RAPID RESPONSE RECESSED WHITE FINISH SPRINKLER HEADS.
5. THE EXISTING SPRINKLER (FIRE PROTECTION) SYSTEM CURRENTLY SERVING THE EXISTING AREAS SHALL BE REMOVED, MODIFIED, EXTENDED (INCLUDING SPRINKLER HEADS, BRANCH LINES, PIPE SUPPORTS, FIRE MAINS, VALVING, ETC...) TO ACCOMPLISH SPRINKLERING OF THE SCOPE OF WORK AREA. INCLUDE ALL SPRINKLER MODIFICATIONS TO THE EXISTING BUILDING TO ACCOMODATE NEW PARTITIONING, AIR DISTRIBUTION LAYOUT, LIGHTING LAYOUT, AREA HAZARD CLASSIFICATIONS, ETC...
6. UNLESS OTHERWISE INDICATED, PIPING SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE. INTERMEDIATE STRUCTURAL SUPPORTS SHALL BE PROVIDED IN AN APPROVED MANNER AS REQUIRED TO MEET MINIMUM SUPPORT SPACING REQUIRED BY THE MANUFACTURER.
7. EXISTING PIPING, VALVING, DUCTWORK & ELECTRIC CONDUITS, ETC... DO EXIST WITHIN THE CEILING SPACE OTHER THAN THAT WHICH IS SHOWN ON THE CONTRACT DRAWINGS.
8. FIELD CHECK PREMISES PRIOR TO SUBMITTING BID TO BECOME ACQUAINTED WITH EXISTING CONDITIONS AND TO DETERMINE BEST MANNER FOR INSTALLATION. DETAILS OF PROPOSED DEPARTURES DUE TO ACTUAL FIELD CONDITIONS OR OTHER CAUSES SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FINAL INSTALLATION. NO EXTRAS SHALL BE PAID IN INSTANCES WHERE DISCREPANCIES ARISE AND THE INSTALLER HAS FAILED TO VERIFY JOB SITE CONDITIONS.
9. COORDINATE MOTORS AND OTHER ELECTRICAL EQUIPMENT FURNISHED UNDER DIV. 15 WITH DIV. 16. PROVIDE EQUIPMENT COORDINATION TABLE AS A SHOP DRAWING FOR REVIEW. TABLE SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING INFORMATION:
   A) EQUIPMENT POWER REQUIREMENTS INCLUDING AMPS & VOLTAGES.
   B) DISCONNECTING MEANS AND OVER CURRENT PROTECTION REQUIREMENTS.
   C) CONTROL REQUIREMENTS.
10. COORDINATE THE INSTALLATION OF LIGHTING FIXTURES WITH PIPING, DUCTWORK, AIR DEVICES, SPRINKLERS AND EQUIPMENT BEING INSTALLED IN THE FACILITY SUCH THAT PIPING, DUCTWORK, AIR DEVICES, AND EQUIPMENT DO NOT BLOCK OR IMPEDE LIGHTING.
11. COORDINATE THE INSTALLATION OF SUPPLY, RETURN AND EXHAUST AIR DEVICES, ETC... WITH DUCTWORK, DOMESTIC WATER, SANITARY, STORM WATER PIPING. IF THE INSTALLATION DEVIATES FROM THE CONTRACT DRAWINGS, SERVICEABILITY & MAINTENANCE MUST BE MAINTAINED TO VALVING, EQUIPMENT, ETC...
12. PROVIDE HANGERS, ANCHORS, ETC... ON PIPING PER SUPPORT MANUFACTURER'S RECOMMENDATIONS.
13. ALL SYSTEM VALVING SHALL BE INSTALLED IN SUCH A MANNER SO AS TO BE ACCESSIBLE TO THE MAINTENANCE PERSONNEL.
14. ROUTE DOMESTIC WATER PIPING, SPRINKLER PIPING, HVAC PIPING, GAS PIPING, ETC... IN PIPE CHASES AND FURRED OUT WALLS AND ABOVE CEILINGS. NO PIPING SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT OR OWNER.
15. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF, WALL AND CEILING CONSTRUCTION TYPES AND DETAILS. REFER TO STRUCTURAL DRAWINGS FOR STEEL SIZES AND LOCATIONS.
16. INSTALL EQUIPMENT, IE: AIR HANDLING UNITS, ETC... IN SUCH A MANNER AS TO PROVIDE ADEQUATE SPACE FOR MAINTENANCE AND SERVICE ACCESS.
17. PROVIDE PIPE SLEEVES AT ALL WALL, FLOOR AND ROOF PENETRATIONS, ALL EXTERIOR ROOF & WALL PIPING PENETRATIONS SHALL BE MADE WEATHER TIGHT, REFER TO DETAILS OF EXTERIOR & INTERIOR WALL PENETRATIONS FOR MORE INFORMATION.
18. FIRE STOP ALL PIPING AND DUCT PENETRATIONS THRU FIRE WALLS AND FLOORS, IN ADDITION PROVIDE FIRE DAMPERS WHERE REQUIRED BY CODE IN ALL DUCTS THAT PASS THROUGH FIRE WALLS–REFER TO ARCHITECTURAL DWG.'s FOR FIRE WALL LOCATIONS.
19. PROVIDE WEATHER TIGHT WALL & ROOF DUCT AND PIPING PENETRATIONS, ALL SEALING MATERIALS TO BE APPROVED BY THE ARCHITECT.
20. PROVIDE ACCESS DOORS IN DUCTWORK FOR EVERY FIRE DAMPER.
21. INSTALL DUCTWORK SO THAT VOLUME DAMPERS, CONTROL PANELS, ETC... ARE ACCESSIBLE. PROVIDE ACCESS PANELS PER SPECIFICATIONS.
22. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF THERMOSTATS SERVING EQUIPMENT WITH THE OWNER AND/OR ARCHITECT.
23. REPLACE AIR FILTERS SERVING EXISTING AND NEW AIR HANDLING EQUIPMENT PRIOR TO FINAL BALANCING OF ALL AIR DISTRIBUTION SYSTEMS.
24. PROVIDE FLEXIBLE DUCT CONNECTION AT ALL DUCTED: AHU'S & EXHAUST FAN INLET & OUTLET CONNECTIONS.
25. COORDINATE ALL NEW & DEMOLITION WORK WITH EXISTING WORK TO REMAIN SO AS NOT TO DAMAGE EXISTING WORK. ANY DAMAGE TO EXISTING WORK TO REMAIN SHALL BE REPLACED/REPAIRED AT NO COST TO THE OWNER.
26. PATCH EXISTING WALLS AND FLOORS TO MATCH EXISTING WHERE NEW MECHANICAL UTILITIES SUCH AS PLUMBING LINES, ATC WIRING AND TUBING, DUCTS, ETC. PENETRATES EXISTING WALLS AND FLOORS. CONTRACTOR SHALL ALSO PATCH WALLS AND FLOORS TO MATCH EXISTING WHERE EXISTING PIPING, WIRING, TUBING DUCTS, ETC. ARE BEING REMOVED AND PENETRATES EXISTING WALLS.
27. ALL SUPPLY, RETURN AND EXHAUST AIR DUCT OPENINGS NOT BEING REUSED SHALL BE PATCHED AND REPAIRED AIR TIGHT IN ACCORDANCE WITH SMACNA STANDARDS.
28. THE OWNER HAS FIRST RIGHT OF REFUSAL TO EQUIPMENT, DIFFUSERS, GRILLES, ETC. BEING REMOVED AND NOT BEING RELOCATED.
29. PREPARE COORDINATION DRAWINGS FOR ALL INTERIOR BUILDING SYSTEMS. DRAWINGS SHALL BE 1/4"=1'–0" SCALE. SHOW THE RELATIONSHIP OF COMPONENTS SHOWN ON SEPARATE SHOP DRAWINGS. INDICATE REQUIRED INSTALLATION SEQUENCES.

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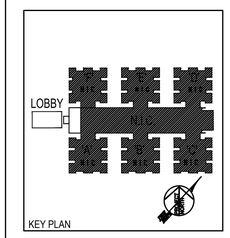

KEY PLAN

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Date: 05/01/2017

Project Number: 17000.00

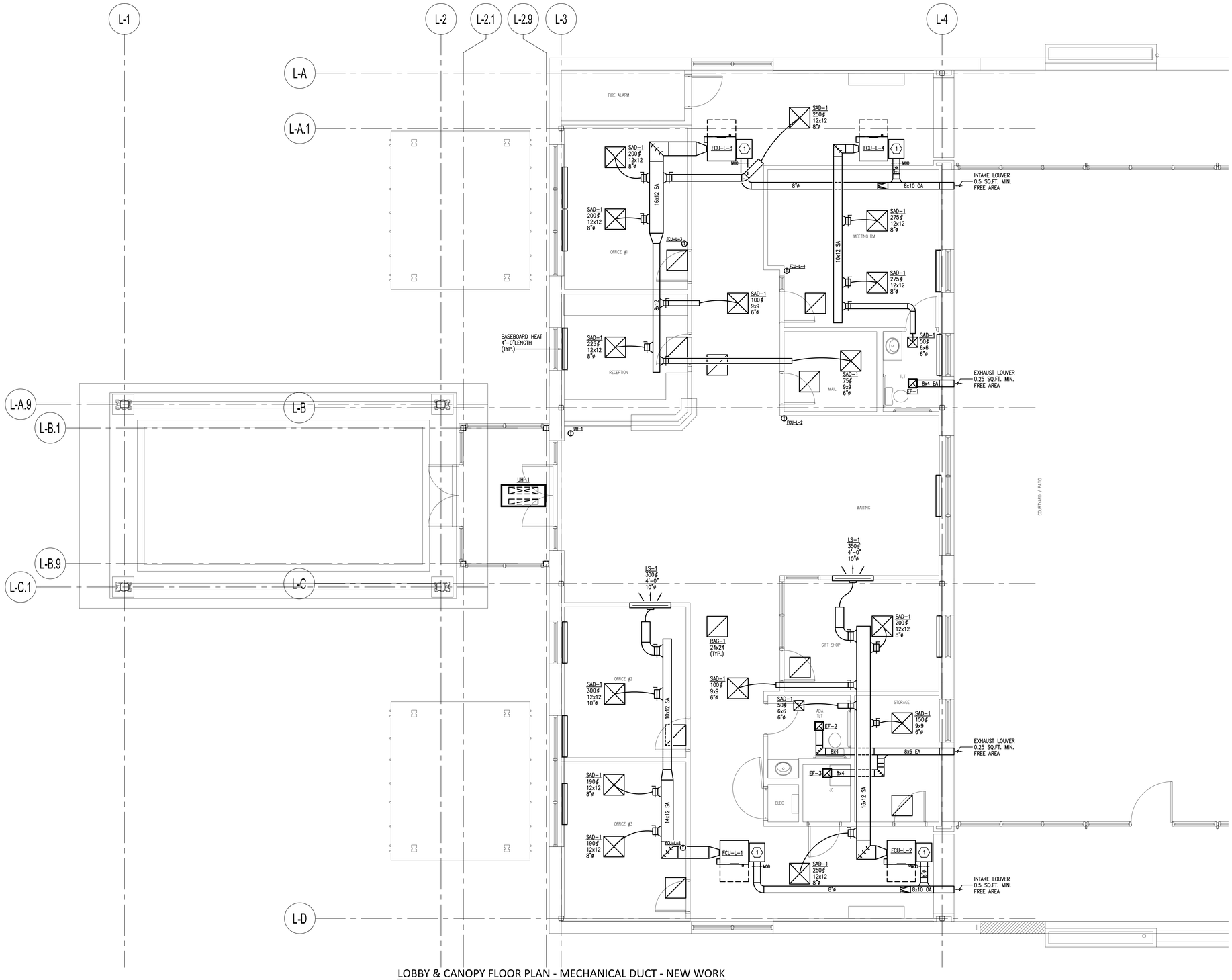
MECHANICAL LEGEND, NOTES & ABBREVIATIONS LOBBY & CANOPY

M-001

JEI #13056F

SPECIFIC NOTES (REFER TO M-101 WHERE INDICATED):

(1) FIELD FABRICATED SHEET METAL PLENUM BOX; FULL SIZE OF FAN COIL UNIT RETURN AIR OPENING.



LOBBY & CANOPY FLOOR PLAN - MECHANICAL DUCT - NEW WORK

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

NOTES:

1.) CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

0 2' 4' 8'

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

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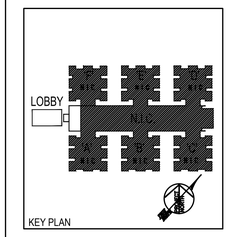

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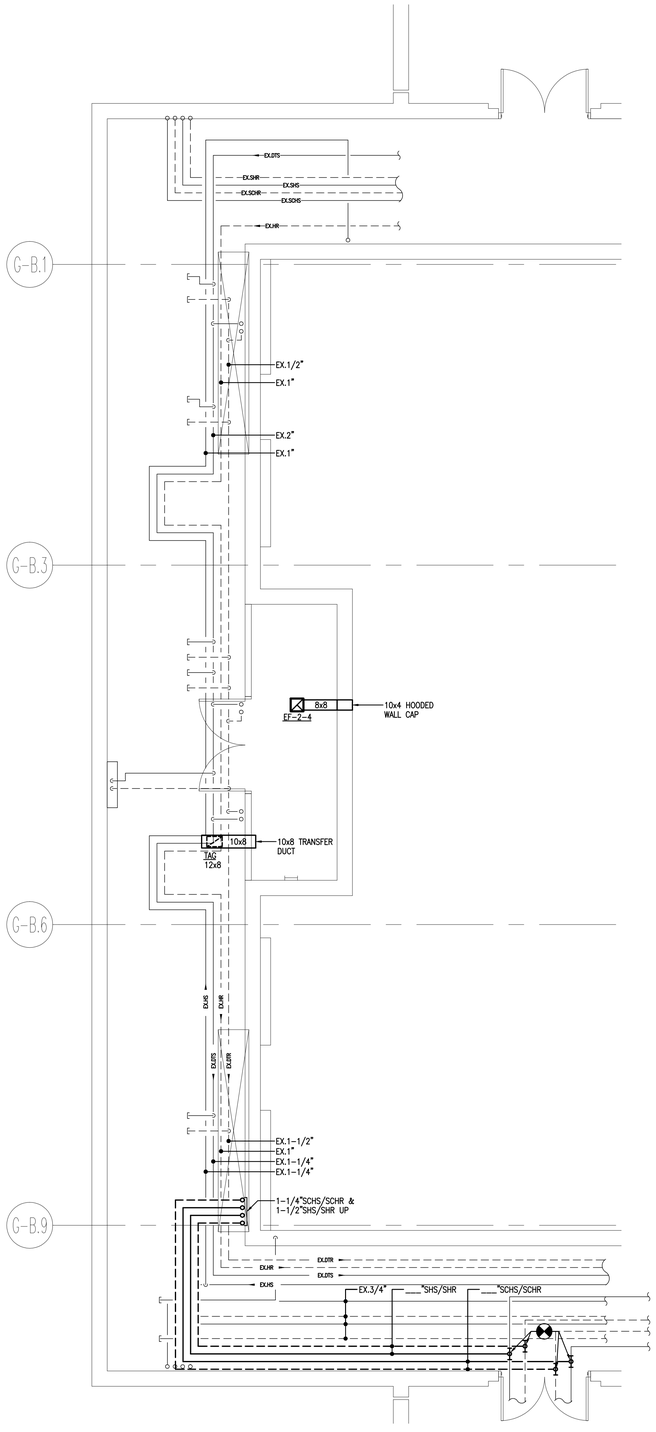
LOBBY & CANOPY FLOOR PLAN MECHANICAL DUCT NEW WORK

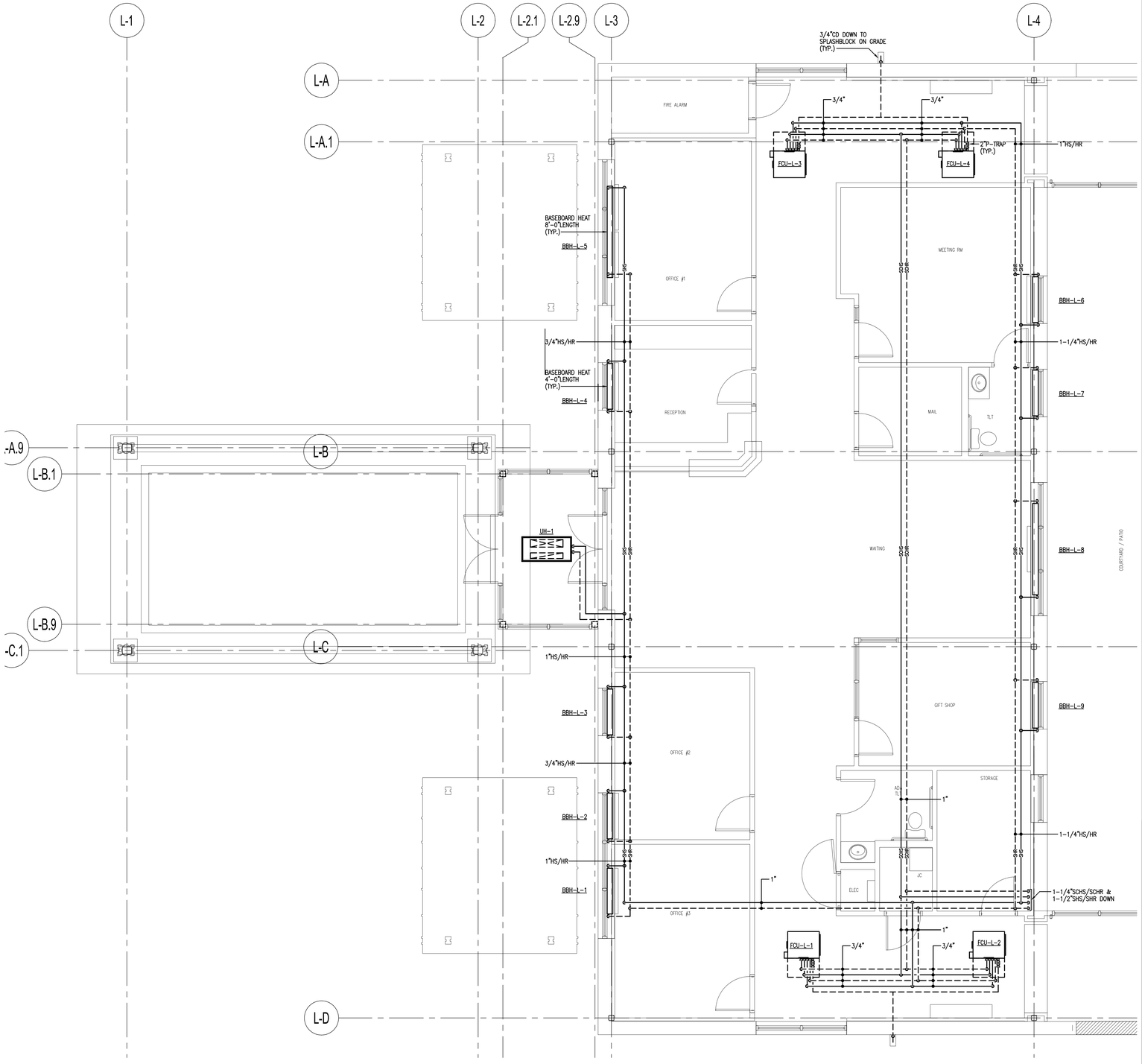
M-101

JEI #13056F



PARTIAL BASEMENT PLAN - MECHANICAL PIPING - NEW WORK

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



LOBBY & CANOPY FLOOR PLAN - MECHANICAL PIPING - NEW WORK

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

NOTES:
1.) CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

0 2' 4' 8'

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

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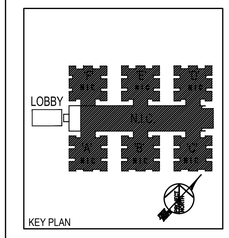

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LOBBY & CANOPY FLOOR PLAN MECHANICAL PIPING NEW WORK

M-201

JEI #13056F

FAN COIL UNIT

Sequence of operation:

General:

THE FAN COIL UNIT SHALL BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM (BAS). OCCUPIED, UNOCCUPIED, AND MORNING WARM-UP MODES OF OPERATION SHALL BE SCHEDULED IN THE BAS.

MORNING WARM UP:

WHEN INDEXED TO THE OCCUPIED MODE BY THE TIME SCHEDULE OF THE BAS,THE SUPPLY FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. THERMOSTAT SHALL MODULATE NORMALLY OPEN TWO (2) WAY MODULATING HEATING COIL CONTROL VALVE TO MAINTAIN THE MORNING WARM UP SPACE TEMPERATURE SET POINT (72 DEG F ADJ) AS SENSED.TWO (2) WAY MODULATING COOLING COIL CONTROL VALVE SHALL REMAIN CLOSED. OUTSIDE AIR DAMPER SHALL REMAIN CLOSEDN. MORNING WARM-UP MODE SHALL CONTINUE AS LONG AS THE RETURN AIR TEMPERATURE IS BELOW 72 DEG F AS SENSED BY THE SPACE THERMOSTAT. WHEN THE THERMOSTAT REACHES 70 DEG F THE MORNING WARM-UP SEQUENCE SHALL BE COMPLETED AND THE FAN COIL UNIT SHALL FUNCTION IN THE OCCUPIED MODE.

OCCUPIED MODE:

WHEN THE MORNING WARM-UP SEQUENCE IS COMPLETE THE OUTSIDE AIR DAMPER SHALL OPEN. THE SUPPLY FAN SHALL REMAIN ENERGIZED AT CONSTANT SPEED. ON A RISE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT, 78 DEG F ADJ., NORMALLY OPEN TWO (2) WAY MODULATING COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE. ON A DROP IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT, 74 DEG F ADJ., NORMALLY OPEN TWO (2) WAY MODULATING HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.

UNOCCUPIED MODE

WHEN INDEXED TO THE UNOCCUPIED MODE BY THE TIME SCHEDULE OF THE BAS, SUPPLY FAN SHALL BE DEENERGIZED, COOLING COIL VALVE AND HEATING COIL VALVE SHALL BE CLOSED. OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. ON A DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, 65 DEG F ADJ., THE SUPPLY FAN SHALL ENERGIZE, HEATING COIL SHALL MODULATE OPEN, AND OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. SAFETY CONTROLS SHALL FUNCTION DURING THE UNOCCUPIED SEQUENCE, THE SAME AS DURING THE OCCUPIED SEQUENCE.

Override:

THE FAN COIL UNIT SHALL BE CAPABLE OF BEING INDEXED FROM UNOCCUPIED TO OCCUPIED MODE FOR A PREDETERMINED PERIOD OF TIME (ADJ) BY A SIGNAL FROM BAS.

SAFETIES

WHENEVER THE SETTING OF THE SUPPLY OR RETURN AIR SMOKE DETECTOR (FOR FCU'S OVER 2,000 CFM), OR FREEZE STAT, ARE EXCEEDED, SUPPLY FAN SHALL BE DEENERGIZED, OUTSIDE AIR DAMPER CLOSED, HEATING COIL VALVE AND COOLING COIL VALVE CLOSED AND A CRITICAL ALARM SHALL SIGNAL AT THE BAS.

FAN STATUS:

IF SUPPLY FAN DOES NOT START WHEN INDEXED OR FAILS DURING OPERATION, A CRITICAL ALARM SHALL SIGNAL AT THE BAS FRONT END.

EXHAUST FANS (EF-1 THRU EF-4)

Sequence of operation:

EXHAUST FANS SHALL BE CONTROLLED BY DIVISION 26.

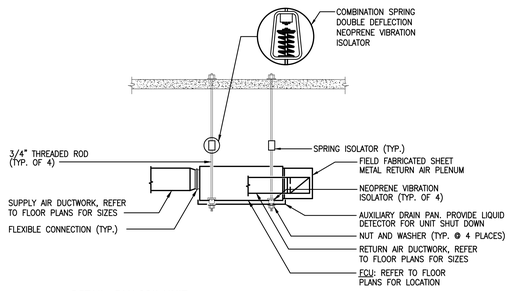
BASEBOARD HEATERS

GENERAL:

BASEBOARD HEATERS SHALL BE CONTROLLED BY THE BUILDING AUTOMATION SYSTEM.

OCCUPIED MODE:

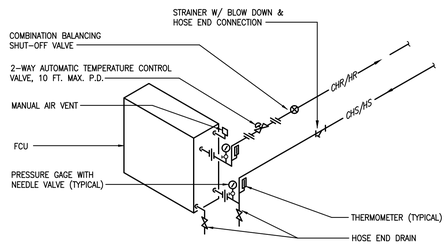
BASEBOARD HEATERS SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTATS CONNECTED TO THE BUILDING AUTOMATION SYSTEM. IN SPACES WHERE THEY ARE INSTALLED, THEY WILL ACT AS A FIRST STAGE OF HEATING. ON A DROP IN SPACE TEMPERATURE BELOW THE BASEBOARD HEATING TEMPERATURE, 75 DEG F, ADJ, THE TWO (2) WAY HEATING WATER VALVE SHALL OPEN. ON A RISE IN SPACE TEMPERATURE ABOVE THE HEATING SETPOINT, THE HEATING WATER VALVE SHALL CLOSE.



DETAIL - FAN COIL UNIT
SUPPORT AND MOUNTING ABOVE CEILING

SCALE: NONE

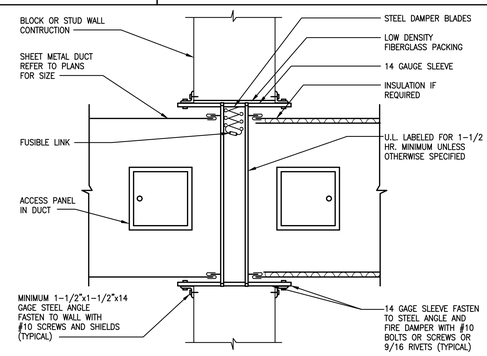
NOTES:
1. REFER TO ARCHITECTURAL & STRUCTURAL DWG.'s FOR EXACT FLOOR/CEILING & ROOF JOIST TYPES AND LOCATIONS.
2. HANGERS/SUPPORT RODS USED IN HANGING THE UNIT SHALL NOT INTERFERE WITH ACCESS TO FILTERS OR ANY OTHER ACCESS REQUIREMENTS TO THE UNIT.
3. REFER TO PLUMBING PLANS FOR CONDENSATE DISCHARGE.



DETAIL–TYPICAL FAN COIL UNIT'S HOT/CHILLED WATER COIL PIPING AND VALVING ASSEMBLY

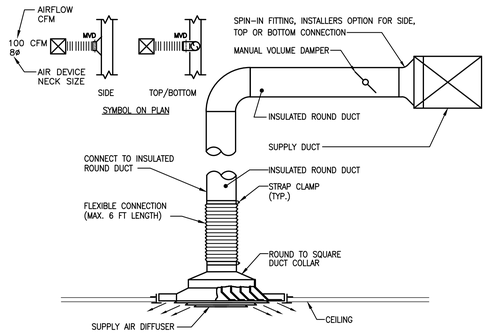
SCALE: NONE

NOTES:
1. MAINTAIN CLEARANCES FOR SERVICE OF COIL/PIPING/VALVING PER COIL MANUFACTURER'S RECOMMENDATION.



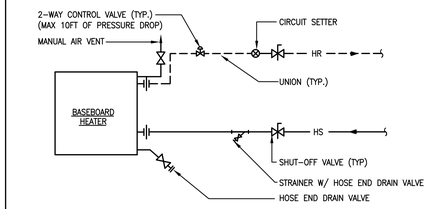
DETAIL – TYPICAL HORIZONTAL FLOW FIRE DAMPER

NOT TO SCALE



DETAIL – SUPPLY AIR DIFFUSER CONNECTION

NOT TO SCALE



DETAIL –BASEBOARD HEATER PIPING & VALVING ASSEMBLY

SCALE: NONE

NOTES:
1. COORDINATE THE NUMBER OF COIL CONNECTIONS WITH THE BASEBOARD EQUIPMENT.

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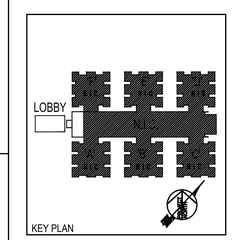

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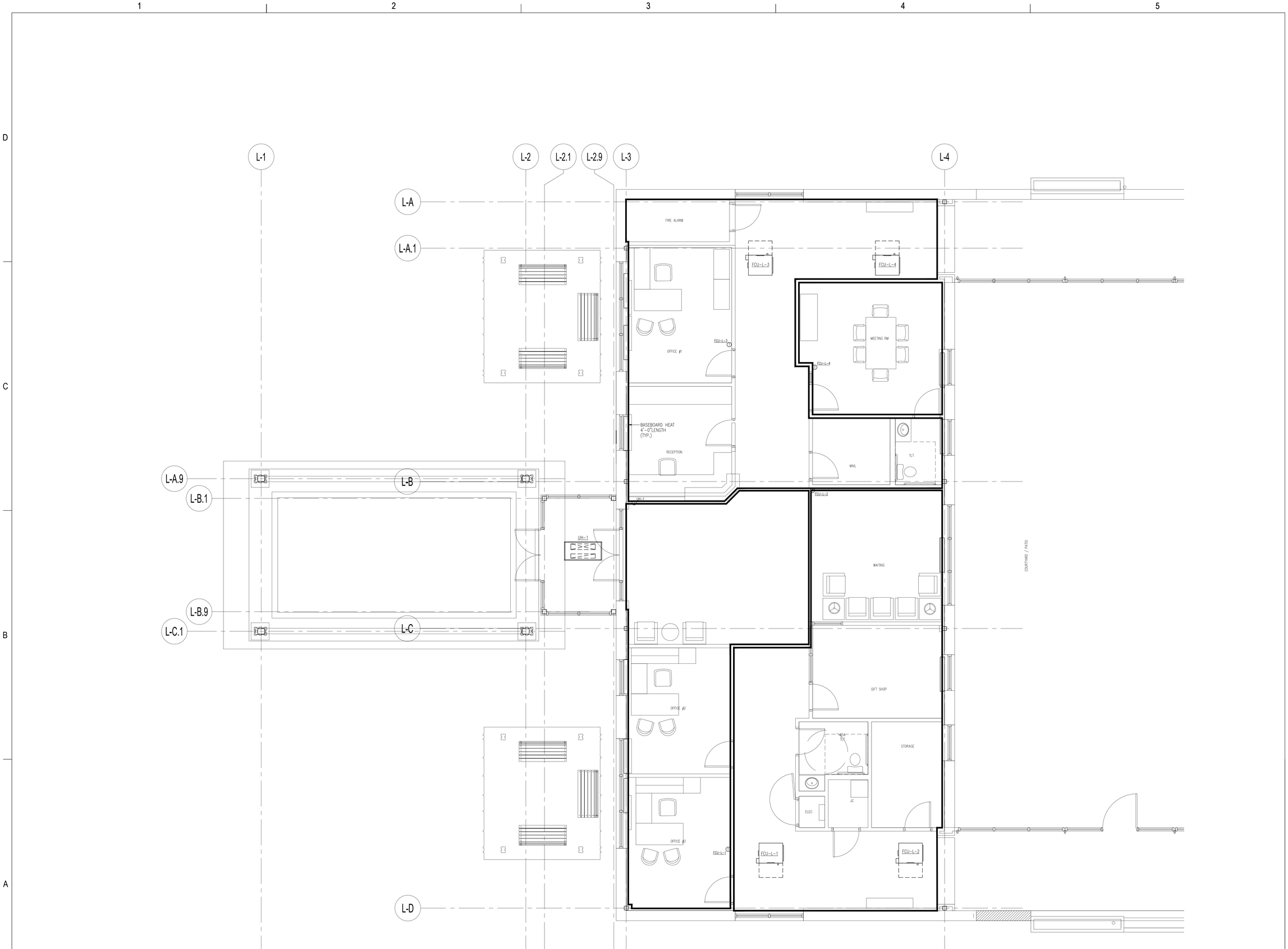
MECHANICAL DETAILS & ATC

M-501

JEI #13056F



LOBBY & CANOPY ZONING PLAN - MECHANICAL - NEW WORK

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

NOTES:
1.) CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2.) xxx.

0 2' 4' 8'

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

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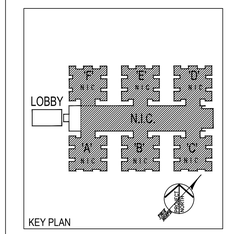

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LOBBY & CANOPY
ZONING PLAN
MECHANICAL
NEW WORK

M-601

JEI #13056F

ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTIONS	MH (UON)
	MULTI OUTLET ASSEMBLY WITH TYPES AND QUANTITIES OF OUTLETS AS SHOWN/NOTED. M.H. 42" A.F.F. OR 8" ABOVE COUNTER.	48" TOD
	SIMPLEX RECEPTACLE, 5-20R CONFIGURATION	18" CTR
	DUPLEX RECEPTACLE, 5-20R CONFIGURATION	18" CTR
	DUPLEX RECEPTACLE, FLOOR MOUNTED, 5-20R CONFIGURATION	
	DUPLEX RECEPTACLE, CONTROLLED BY SWITCH, 5-20R CONFIGURATION	18" CTR
WP	DUPLEX RECEPTACLE, SUBSCRIPT NOTES: C = FLUSH CEILING, WP = WEATHERPROOF	
A	SPECIAL RECEPTACLE: 20A, 2P, 3W, 208V NEMA 6-20R	18" CTR
B	SPECIAL RECEPTACLE: 30A, 2P, 3W, 208V NEMA 6-30R	18" CTR
C	SPECIAL RECEPTACLE: 20A, 3P, 4W, 208/120V NEMA 14-20	18" CTR
D	SPECIAL RECEPTACLE: 30A, 3P, 4W, 208V NEMA 15-30	18" CTR
	SPECIAL RECEPTACLE, FLOOR MOUNTED	
	DOUBLE DUPLEX RECEPTACLE	18" CTR
	RECEPTACLE MOUNTED 6" ABOVE BACK SPLASH OR COUNTER	
	GROUND FAULT INTERRUPTER TYPE RECEPTACLE	18" CTR
	TAMPER PROOF RECEPTACLE	18" CTR
	PROGRAM CLOCK OUTLET - SINGLE FACE, DOUBLE FACE	84" CTR
EPO	EMERGENCY POWER OFF SWITCH	48" TOD
J	JUNCTION BOX	
E	EQUIPMENT CONNECTION AS NOTED	
CB	ENCLOSED CIRCUIT BREAKER	
	NON-FUSED DISCONNECT SWITCH, 30A, 3P (UNLESS OTHERWISE NOTED)	
	FUSED DISCONNECT SWITCH - FUSE SIZE AS INDICATED	
MS	MAGNETIC MOTOR STARTER	
FVNR	COMBINATION MAGNETIC MOTOR STARTER. ABBREVIATION INDICATES TYPE: FVNR, FVR, RVAT, 2S1W, 2S2W, SST	
VFC	VARIABLE FREQUENCY CONTROLLER W/FUSED DISCONNECT SWITCH	
	MOTOR - NUMERALS (IF SHOWN) INDICATE HP	
	GENERATOR - NUMERALS (IF SHOWN) INDICATE KW	
CP	CONTROL PANEL - TYPE AS INDICATED	
PB	MOMENTARY CONTACT START-STOP PUSH BUTTON STATION	
PBM	MAINTAINED CONTACT START-STOP PUSHBUTTON STATION	
ES	MAINTAINED CONTACT EMERGENCY STOP PUSHBUTTON STATION	
	PANELBOARD	78" TOD
T	TRANSFORMER	
	RACEWAY "UP" OR "TOWARDS"	
	RACEWAY "DOWN" OR "AWAY"	
	CIRCUIT CONCEALED IN WALLS OR CEILING SPACE. CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)	
	BRANCH CIRCUIT HOMERUN TO PANELBOARD. QUANTITY OF CIRCUITS INDICATED BY ARROWS (-\\\-). NUMBER OF CONDUCTORS SHALL BE MINIMUM 4#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT, (UNLESS OTHERWISE NOTED)	
	BUS DUCT OR CABLE TRAY UP OR TOWARDS	
	BUS DUCT OR CABLE TRAY DOWN OR AWAY	
	BUS DUCT, TYPE & SIZE AS INDICATED	
	TELEPHONE AND POWER POLE ASSEMBLY	
	CONCRETE ENCASED DUCTBANK BELOW GRADE	
	FLEXIBLE CONDUIT	
	CABLE TRAY	
	GROUND ROD	
	LIGHTNING PROTECTION AIR TERMINAL	
G	GROUND WIRE CONNECTION GROUND WIRE	
	LIGHTNING PROTECTION DOWN LEAD	
	UTILITY POLE	
N E L	AUTOMATIC TRANSFER DEVICE	
A	METERING DEVICES: A-AMMETER, V-VOLTMETER, PF-POWER FACTOR, HZ-FREQUENCY METER	
DM	DIGITAL METER	
(50)	FUSE, FUSE SIZE AS INDICATED (50A)	
	GROUND CONNECTION	
	TRANSFORMER (DELTA - RESISTANCE GROUNDED WYE SHOWN)	
	CURRENT TRANSFORMER	
	POTENTIAL TRANSFORMER	
LA	LIGHTNING ARRESTOR	
	MOTOR STARTER CONTACTOR AND THERMAL OVERLOAD	
K	KIRK KEY INTERLOCK SYSTEM	
FRAME TRIP	MOLDED CASE CIRCUIT BREAKER WITH RATINGS AS INDICATED	
	SWITCH	
	DRAW OUT DEVICE	
	DRAW OUT POWER CIRCUIT BREAKER	
TTB	TEST TERMINAL BLOCK	
TB	WIRING TERMINAL BLOCK	
	INDICATOR OR PILOT LIGHT: R-RED, B-BLUE, W-WHITE, G-GREEN, A-AMBER	
VFC	VARIABLE FREQUENCY CONTROLLER	
2S2W	MOTOR - SINGLE WINDING UNLESS NOTED: 2S2W = 2 SPEED 2 WINDING 2S1W = 2 SPEED 1 WINDING NUMERALS (IF SHOWN) INDICATE HP	
	CONDUCTORS NOT CONNECTED	
	CONDUCTORS CONNECTED	

SYMBOL	DESCRIPTIONS	MH (UON)
START	NORMALLY OPEN MOMENTARY CONTACT PUSH BUTTON WITH NAMEPLATE AS INDICATED ON DIAGRAM	
STOP	NORMALLY CLOSED MOMENTARY CONTACT PUSH BUTTON WITH NAMEPLATE AS INDICATED ON DIAGRAM	
EMERG. STOP	NORMALLY CLOSED MAINTAINED CONTACT PUSH BUTTON WITH MUSHROOM BUTTON	
OFF ON	TWO POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH NAMEPLATE AS INDICATED ON DIAGRAMS	
LOCAL OFF REMOTE X00 00X	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH WITH NAMEPLATE AS INDICATED ON THE CONTROL DIAGRAMS. X = CLOSED 0 = OPEN	
	NORMALLY CLOSED PRESSURE SWITCH - OPENS ON RISING PRESSURE	
	NORMALLY OPEN PRESSURE SWITCH - CLOSES ON RISING PRESSURE	
	NORMALLY CLOSED TEMPERATURE SWITCH - OPENS ON RISING TEMPERATURE	
	NORMALLY OPEN TEMPERATURE SWITCH - CLOSES ON RISING TEMPERATURE	
	NORMALLY CLOSED FLOW SWITCH - OPENS ON RISING FLOW	
	NORMALLY OPEN FLOW SWITCH - CLOSES ON RISING FLOW	
	NORMALLY CLOSED LEVEL SWITCH - OPENS ON RISING LEVEL	
	NORMALLY OPEN LEVEL SWITCH - CLOSES ON RISING LEVEL	
	NORMALLY CLOSED LIMIT SWITCH (HELD OPEN)	
	NORMALLY CLOSED LIMIT SWITCH	
	NORMALLY OPEN LIMIT SWITCH	
	NORMALLY OPEN LIMIT SWITCH (HELD CLOSED)	
R1	RELAY OR CONTACTOR COIL WITH TAG NUMBER AS SHOWN	
	NORMALLY OPEN RELAY CONTACT	
	NORMALLY CLOSED RELAY CONTACT	
TD	ON-DELAY OR OFF-DELAY RELAY	
	ON-DELAY RELAY NORMALLY CLOSED TIMED OPENING CONTACT	
	ON-DELAY RELAY NORMALLY OPEN TIMED CLOSING CONTACT	
	OFF-DELAY NORMALLY CLOSED CONTACT (OPENS WHEN ENERGIZED, TIMED CLOSING AFTER DE-ENERGIZING)	
	OFF-DELAY NORMALLY OPEN CONTACT (OPENS WHEN ENERGIZED, TIMED OPENING AFTER DE-ENERGIZING)	
L U	LATCHING RELAY L = LATCH COIL U = UNLATCH COIL	
	FIELD WIRING TERMINAL	
	4" LIGHTING FIXTURE - TYPE AS SPECIFIED	
	LIGHTING FIXTURE - WALL MOUNTED - TYPE AS SPECIFIED	
	LIGHTING FIXTURE - RECESSED OR SURFACE MOUNTED - TYPE AS SPECIFIED	
	STRIP LIGHTING FIXTURE - TYPE AS SPECIFIED	
	2'X2' LIGHTING FIXTURE - TYPE AS SPECIFIED	
	2'X4' LIGHTING FIXTURE - TYPE AS SPECIFIED	
	CEILING FAN - TYPE AS SPECIFIED	
	TRACK LIGHTING - TYPE AS SPECIFIED	
	LIGHTING FIXTURE - SPOT - TYPE AS SPECIFIED	
	LIGHTING FIXTURE - TYPE AS SPECIFIED - FILLED CIRCLE DENOTES ON EMERGENCY CIRCUIT,ON NIGHTLIGHT CIRCUIT OR WITH EMERGENCY BALLAST.	
	EXIT SIGN - UNIVERSAL MOUNTING. NUMBER OF SHADED AREAS INDICATE NUMBER OF FACES. ARROWS INDICATED DIRECTIONAL FACE.	
	EMERGENCY LIGHT - TYPE AS SPECIFIED	
	LIGHTING FIXTURE - WALL MOUNTED - TYPE AS SPECIFIED	
	POLE MOUNTED LIGHT FIXTURE - TYPE AS SPECIFIED	
S	SINGLE POLE TOGGLE SWITCH	48" TOD
Sa	SWITCH - SUBLETTER INDICATES FIXTURES CONTROLLED	48" TOD
S2	DOUBLE POLE TOGGLE SWITCH	48" TOD
S3	THREE-WAY TOGGLE SWITCH (SPDT)	48" TOD
S4	FOUR-WAY TOGGLE SWITCH (DPDT)	48" TOD
SK	KEY OPERATED SWITCH	48" TOD
SM	MANUAL STARTER WITH OVERLOADS	48" TOD
SP	SWITCH WITH PILOT LIGHT	48" TOD
SD	DIMMER SWITCH	48" TOD
SLV	LOW VOLTAGE CONTROL SWITCH	48" TOD
ST	MANUAL TIME SWITCH	48" TOD
SC	MOMENTARY CONTACT SWITCH	48" TOD
TC	TIME CLOCK	
R	RELAY	
L	LIGHTING CONTACTOR	
P	PHOTOCELL OR PUSHPLATE SWITCH	
H	HORN TYPE SPEAKER	GENERAL NOTE 5
75	FLASHING STROBE SUBSCRIPT DENOTES CANDELLA RATING	GENERAL NOTE 5
F	FIRE ALARM HORN	GENERAL NOTE 5
75 F	COMBINATION FIRE ALARM HORN AND FLASHING STROBE LIGHT. SUBSCRIPT DENOTES CANDELLA RATING	GENERAL NOTE 5
H	DOOR HOLD OPEN DEVICE	

SYMBOL	DESCRIPTIONS	MH (UON)
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
RAM	RESCUE ASSISTANCE MASTER CONTROL	48" TOD
TP	PANEL FIRE ALARM TRANSPONDER	
RAR	RESCUE ASSISTANCE REMOTE STATION	48" TOD
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	
DS ES	DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE CONNECTION POINT	
F	FIRE ALARM MANUAL PULL STATION	48" TOD
HD	THERMAL HEAT DETECTOR	
SD	PROVIDE FIRE ALARM SYSTEM SMOKE DETECTOR WITH LOCAL SOUNDER. PROVIDE DETECTOR WITH AUXILIARY CONTACTS FOR INTERFACE TO NURSE CALL SYSTEM. PROVIDE NURSE CALL SYSTEM INTERFACE AND MAKE ALL FINAL CONNECTIONS BETWEEN SMOKE DETECTOR AND NURSE CALL SYSTEM.	
I	SMOKE DETECTOR (IONIZATION)	
DD	DUCT SMOKE DETECTOR	
ARC	FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL	
ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR	
RAL	FIRE ALARM SYSTEM REMOTE ALARM LIGHT	
FS	FLOW SWITCH CONNECTION	
TS	TAMPER SWITCH CONNECTION	
LBT LBR	FIRE ALARM LINEAR BEAM SMOKE DETECTOR TRANSMITTER & RECEIVER	
	FIREMAN'S TELEPHONE JACK	48" TOD
F/S	FIRE/SMOKE DAMPER	
	HVAC EMERGENCY SHUT DOWN PUSH BUTTON STATION WITH COVER	48" TOD
M	MONITOR SYSTEM JUNCTION BOX	36" CTR
F	CEILING SPEAKER, F = FIRE ALARM, S = AV SYSTEM	
A	AMPLIFIER	
K	KEYPAD	48" TOD
CR	CARD READER	48" TOD
DA	DOOR ALARM CONTACT	
	TELEPHONE OUTLET AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE	18" CTR
W	TELEPHONE OUTLET, WALL MOUNTED AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE	54" CTR
	TELEPHONE OUTLET, FLOOR MOUNTED	
	DATA/TELEPHONE OUTLET, UNSHADED AREA = DATA, SHADED AREA = VOICE, NUMERALS INDICATE QUANTITY OF WIRED JACKS AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE	18" CTR
	DATA/TELEPHONE OUTLET, FLOOR MOUNTED, UNSHADED AREA = DATA, SHADED AREA = VOICE, NUMERALS INDICATE QUANTITY OF WIRED JACKS AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE	
	DATA OUTLET, WALL MOUNTED AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE	18" CTR
	DATA OUTLET, FLOOR MOUNTED AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE	
E	TELEPHONE OUTLET - EMERGENCY DATA OUTLET	54" TOD
TV	TELEVISION ANTENNA OUTLET	18" CTR
2W 4W	TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY	
	DATA/TELEPHONE OUTLET, CEILING MOUNTED	
	ROUGH IN JUNCTION BOX FOR CCTV CAMERA	
H	BULL HORN STYLE SPEAKER	
C	SYSTEM CALL-IN STATION	54" TOD
V	VOLUME CONTROL SELECTOR SWITCH	54" TOD
	MICROPHONE JACK - MOUNTED FLUSH IN FLOOR	
D	DOORBELL CHIME	
DR	DOOR RELEASE PUSHBUTTON	
D	ELECTRIC DOOR STRIKE	
P	PROGRAM BELL	
U	MICROPHONE JACK - WALL MOUNTED AT	18" CTR
B	DOORBELL BUZZER	
CS	P.A. SYSTEM CALL-IN STATION	54" TOD
NC	NURSE CALL STATION - PATIENT & EMERGENCY	60" CTR
NCA	NURSE CALL ANNUNCIATOR PANEL	48" CTR
NM	NURSE CALL MASTER STATION	60" CTR
S	NURSE CALL STAFF STATION	60" CTR
D	NURSE CALL DUTY STATION	60" CTR
B	NURSE CALL CODE BLUE STATION	60" CTR
CB	CODE BLUE ANNUNCIATOR	60" CTR
O	NURSE CALL DOME LIGHT - CEILING MOUNTED	
D	NURSE CALL DOME LIGHT - WALL MOUNTED	90" CTR
N	NURSE CALL ZONE LIGHT - CEILING MOUNTED	
WG	WANDERGUARD	
I	INTERCOM STATION	48" TOD
	EMERGENCY PULL CORD STATION	48" TOD
	PUSH BUTTON STATION	48" TOD
1	SPECIFIC NOTE - REFER TO SPECIFIC NOTES	
2	REVISION NUMBER 2	
1	DRAWING NOTE NUMBER 2	
1	EQUIPMENT TAG NUMBER - REFER TO EQUIPMENT	
X XX XX	SCHEDULE SECTION/ELEVATION IDENTIFICATION	
X XX	PART PLAN AND DETAIL IDENTIFICATION	
	DEVICES AND CIRCUITRY SHOWN AS LIGHT LINEWEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.	
X	DEVICES AND CIRCUITRY SHOWN AS LIGHT LINEWEIGHT AND WITH "X" DESINGATES EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.	

ELECTRICAL ABBREVIATIONS

A, AMP	– AMPERE	KVAR	– KILOVOLT AMPERES REACTIVE
AC	– ALTERNATING CURRENT	KW	– KILOWATTS
A/C	– AIR CONDITIONING	KWH	– KILOWATT HOUR
AFF	– ABOVE FINISHED FLOOR	LA	– LIGHTNING ARRESTOR
AFG	– ABOVE FINAL GRADE	LC	– LIGHTING CONTACTOR
AHU	– AIR HANDLING UNIT	LTG	– LIGHTING
AIC	– AMPS INTERRUPTING CAPACITY	LTNG	– LIGHTNING
ALT	– ALTERNATE	LP	– LIGHTING PANEL
ANN	– ANNUNCIATOR	LRA	– LOCKED ROTOR AMPERES
APPROX	– APPROXIMATELY	MATV	– MASTER ANTENNA TELEVISION
ARCH	– ARCHITECT	MCB	– MAIN CIRCUIT BREAKER
ATC	– AUTOMATIC TEMPERATURE CONTROL	MCC	– MOTOR CONTROL CENTER
		MEH	– METAL HALIDE
ATS	– AUTOMATIC TRANSFER SWITCH	MH	– MANHOLE, MOUNTING HEIGHT
AWG	– AMERICAN WIRE GAUGE	MLO	– MAIN LUGS ONLY
BAS	– BUILDING AUTOMATION SYSTEM	MSP	– MOTOR STARTER PANEL
BFC	– BELOW FINISHED CEILING	MTD	– MOUNTED
BFG	– BELOW FINISHED GRADE	MV	– MERCURY VAPOR
BLDG	– BUILDING	NC	– NORMALLY CLOSED
BOD	– BOTTOM OF DEVICE	NEC	– NATIONAL ELECTRICAL CODE
C, CND	– CONDUIT	NFSS	– NON-FUSED SAFETY SWITCH
CATV	– CABLE TELEVISION	NO	– NUMBER, NORMALLY OPEN
CB	– CIRCUIT BREAKER	OC	– ON CENTER
CCTV	– CLOSED CIRCUIT TELEVISION	OFCI	– OWNER FURNISHED CONTRACTOR INSTALLED
CKT	– CIRCUIT		
CL	– CURRENT LIMITING	OFOI	– OWNER FURNISHED OWNER INSTALLED
CLG	– CEILING		
CONN	– CONNECT	OH	– OVERHEAD
CPT	– CONTROL POWER TRANSFORMER	Ø, PH	– PHASE
CT	– CURRENT TRANSFORMER	P	– POLE
CTR	– CENTER	PB	– PUSHBUTTON
CU,CO	– COPPER	PF	– POWER FACTOR
CX	– CONNECT TO EXISTING	PFCC	– POWER FACTOR CORRECTION CAPACITOR
DC	– DIRECT CURRENT		
DISC	– DISCONNECT	PL	– PILOT LIGHT
DN	– DOWN	PLC	– PROGRAMMABLE LIGHTING CONTROL
DP	– DISTRIBUTION PANEL	PNL	– PANEL
DPST	– DOUBLE POLE SINGLE THROW	PP	– POWER PANEL
DPDT	– DOUBLE POLE DOUBLE THROW	PR	– PAIR
DT	– DOUBLE THROW	PT	– POTENTIAL TRANSFORMER
DWG	– DRAWING	PVC	– POLYVINYL CHLORIDE
E, EMERG	– EMERGENCY	Pp	– PUMP
EA	– EACH	QTY	– QUANTITY
EC	– EMPTY CONDUIT	RCS	– REMOTE CONTROL SWITCH
EF	– EXHAUST FAN	REC, RECPT	– RECEPTACLE
EH	– ELECTRIC HEATER	REQ'D	– REQUIRED
ELEC	– ELECTRIC	RFI	– RADIO FREQUENCY INTERFERENCE
ELEV	– ELEVATION	RGS	– RIGID GALVANIZED STEEL
ETR	– EXISTING TO REMAIN	RLA	– RUNNING LOAD AMPERES
EX	– EXISTING	RM	– ROOM
EXP	– EXPOSED	RVAT	– REDUCED VOLTAGE AUTO TRANSFORMER
EWC	– ELECTRIC WATER COOLER	RX	– REMOVE EXISTING
FR	– FRAME	SC	– SURGE CAPACITOR
FA	– FIRE ALARM	SEC	– SECONDARY
FAAP	– FIRE ALARM ANNUNCIATOR PANEL	SN, S/N	– SOLID NEUTRAL
FACP	– FIRE ALARM CONTROL PANEL	SP	– SURGE PROTECTION
FBO	– FURNISHED BY OTHERS	SPDT	– SINGLE POLE DOUBLE THROW
FC	– FAN COIL	SS	– SAFETY SWITCH
FDR	– FEEDER	SST	– SOLID STATE
FLA	– FULL LOAD AMPERES	ST	– SINGLE THROW
FLR	– FLOOR	SW	– SWITCH
FU	– FUSED AND FUSIBLE	SWBD	– SWITCHBOARD
FUSS	– FUSED SAFETY SWITCH	TBR	– TO BE REMOVED
FVR	– FULL VOLTAGE REVERSING	TC	– TIME CLOCK
FVNR	– FULL VOLTAGE NON-REVERSING	TEL, TELE	– TELEPHONE
GEN	– GENERATOR, GENERAL	TOD	– TOP OF DEVICE
GFI	– GROUND FAULT INTERRUPTER	TRANS/XFMR	– TRANSFORMER
GFR	– GROUND FAULT RELAY	TH	– TUNGSTEN HALOGEN
GRD	– GROUND	TTB	– TELEPHONE TERMINAL BOARD
GRS	– GALVANIZED RIGID STEEL	TW	– TWISTED
HID	– HIGH INTENSITY DISCHARGE	TYP	– TYPICAL
HOA	– HAND-OFF-AUTOMATIC	UG	– UNDERGROUND
HP	– HORSEPOWER	UH	– UNIT HEATER
HPS	– HIGH PRESSURE SODIUM	UON	– UNLESS OTHERWISE NOTED
HTR	– HEATER	V	– VOLTS
HV	– HIGH VOLTAGE	VFC	– VARIABLE FREQUENCY CONTROLLER
HZ	– HERTZ	W	– WATTS, WIRE
IG	– ISOLATED GROUND	W/	– WITH
JB	– JUNCTION BOX	WP	– WEATHER-PROOF
KCMIL	– THOUSAND CIRCULAR MILS	XP	– EXPLOSION PROOF
KV	– KILOVOLTS	2S1W	– 2 SPEED SINGLE WINDING
KVA	– KILOVOLT AMPERES	2S2W	– 2 SPEED DOUBLE WINDING

GENERAL NOTES

1. THIS IS A STANDARD SYMBOL LIST, SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
2. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
3. PLAN & SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS.
4. ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS,DEVICE QUANTITY = 3 UNLESS OTHERWISE NOTED.
5. DEVICE SHALL BE MOUNTED A MINIMUM OF 90" AFF TO BOTTOM OF DEVICE OR BELOW THE FINISHED CEILING OF NOT LESS THAN 6" TO TOP OF DEVICE.
6. UNLESS OTHERWISE NOTED ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.

CIRCUIT DESIGNATIONS

LIGHTING — A # o

- FIXTURE TYPE
- *CIRCUIT DESIGNATION
- SWITCH DESIGNATION

POWER — #

- *CIRCUIT DESIGNATION

* SEE NOTES FOR PANEL DESIGNATIONS FOR EACH AREA.

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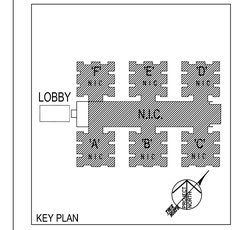

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-	Bid Set	05.01.2017

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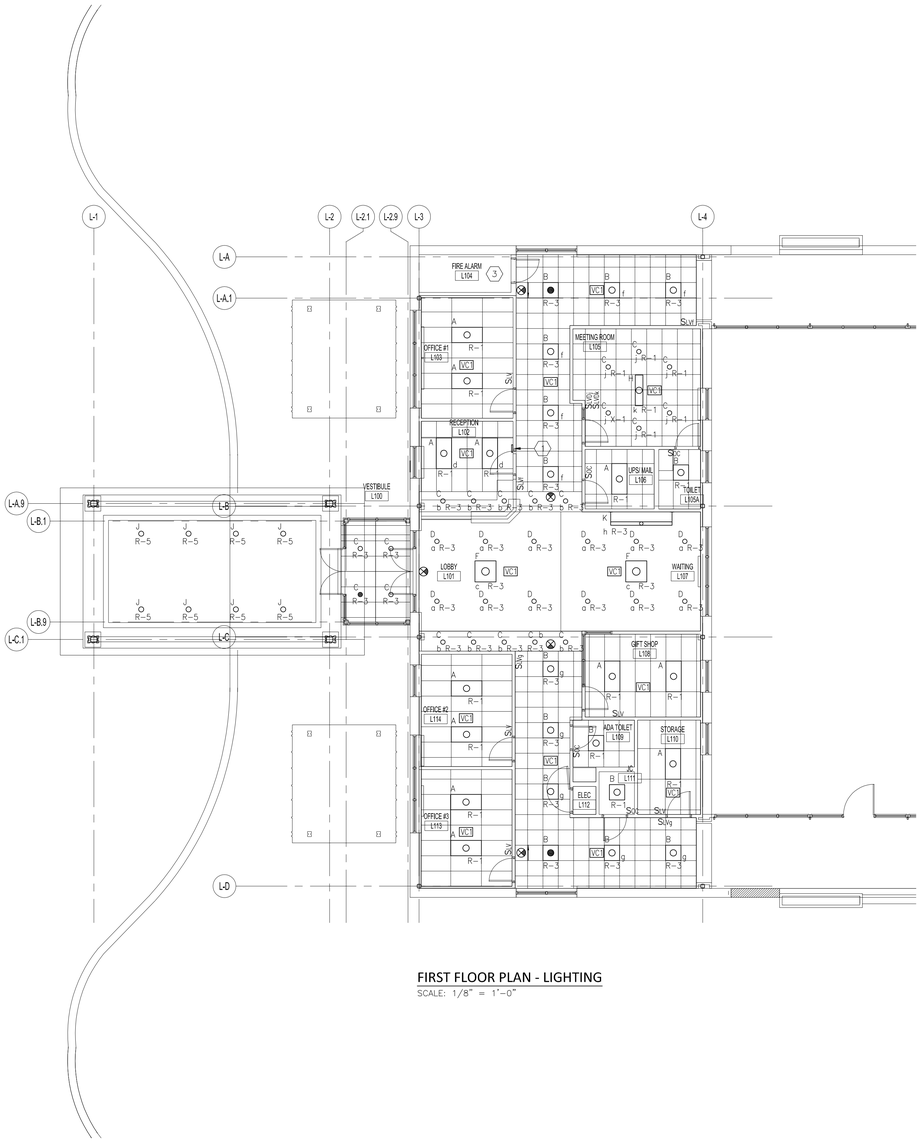
ELECTRICAL LEGEND AND ABBREVIATIONS

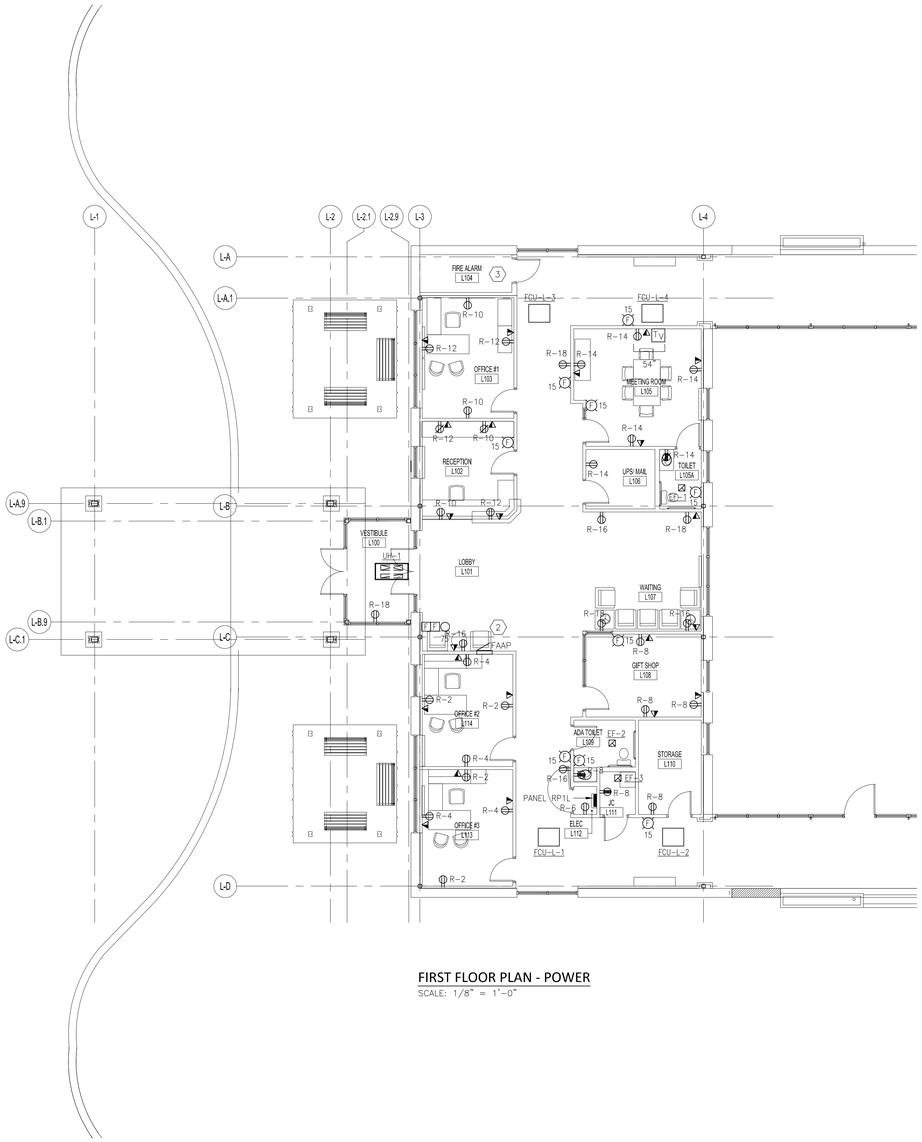
E-001

JEI #13056F



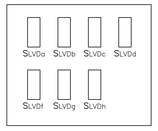
FIRST FLOOR PLAN - LIGHTING

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



FIRST FLOOR PLAN - POWER

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



SWITCHBANK DETAIL "A"

NO SCALE

SPECIFIC NOTES (REFER TO E-101 WHERE INDICATED):

1. SEE SWITCHBANK DETAIL "A" ON THIS SHEET
2. RELOCATED FAAP (RECESSED)
3. EXISTING POWER & LIGHTING TO REMAIN IN THIS ROOM.

EQUIPMENT CONNECTION SCHEDULE

DESIG.	LOAD	UNIT	VOLTS	PHASE	DISC. SW. POLE	DISC. SW. FRAME	DISC. SW. FUSE	CIRCUIT	NOTES
EF-1	128	W	120	1	-	-	-	R-7	1
EF-2	128	W	120	1	-	-	-	R-7	1
EF-3	21	W	120	1	-	-	-	R-7	1
EF-4	67	W	120	1	-	-	-	-	3
FCU-L-1	6.7A	A	208	1	-	-	-	R-9,11	1
FCU-L-2	6.7A	A	208	1	-	-	-	R-13,15	1
FCU-L-3	6.7A	A	208	1	-	-	-	R-17,19	1
FCU-L-4	6.7A	A	208	1	-	-	-	R-21,23	1
UH-1	0.3	MCA	120	1	-	-	-	R-25	4

NOTES:
1. PROVIDE MANUAL MOTOR STARTER.
2. DISCONNECT PROVIDED WITH UNIT.
3. CONNECT TO EXISTING LIGHTING CIRCUIT IN ADJACENT CORRIDOR.

0 4' 8' 16'

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

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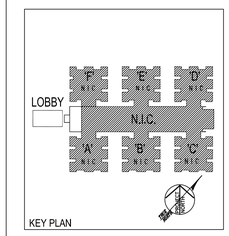

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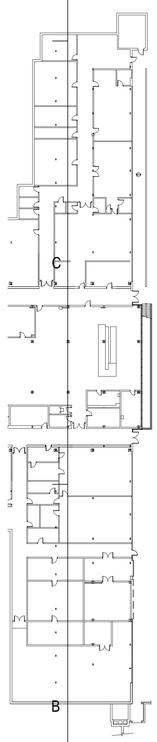
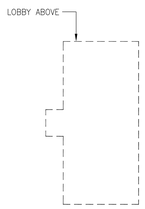
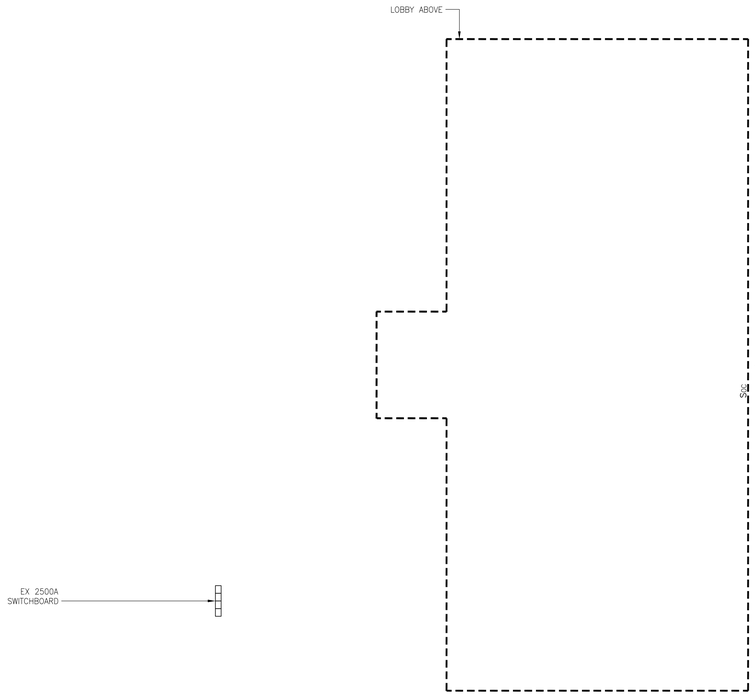
FIRST FLOOR POWER PLAN LOBBY

E-101

JEI #13056F



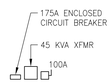


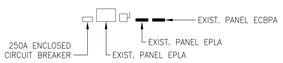


BASEMENT PLAN - POWER
SCALE: 1/32" = 1'-0"

SPECIFIC NOTES (REFER TO E-401 WHERE INDICATED):

1 CONNECT LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT IN ADJACENT CORRIDOR.





BASEMENT PART PLAN - POWER
SCALE: 1/8" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

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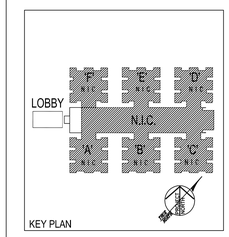

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PART PLANS ELECTRICAL COTTAGE F

E-401

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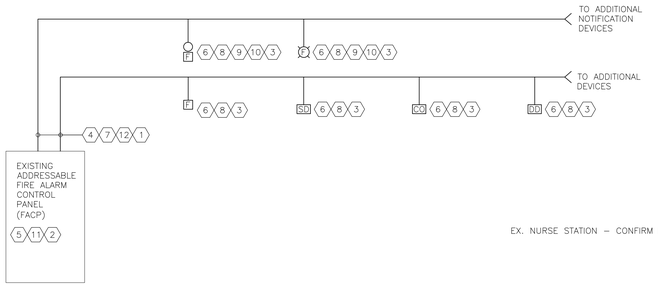
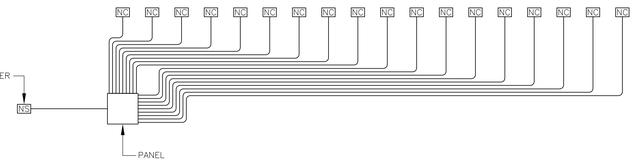


FIRE ALARM RISER DIAGRAM

SCALE: NONE

FIRE ALARM RISER DIAGRAM NOTES:

1. INSTALLATION AND TERMINATION OF ALL WIRES SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS.
2. T–TAPPING OF NAC CIRCUITS IS NOT PERMITTED.
3. SINGLE DEVICE ELECTRICAL BOXES TO BE RECESSED WITHIN WALL. ALL SURFACE MOUNTED PULL STATIONS, STROBES, SHALL BE MOUNTED IN THE MANUFACTURER'S BACK BOXES FOR THESE DEVICES.
4. CONNECT FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM CIRCUIT. CONFIRM EXACT FIRE ALARM DISTRIBUTION SYSTEM.
5. EXISTING FIRE ALARM PANEL WHICH SERVES THE EXISTING BUILDING. CONFIRM LOCATION IN THE FIELD.
6. PROVIDE FIRE ALARM DEVICES THAT ARE COMPATIBLE WITH THE EXISTING SYSTEM.
7. ALL FIRE ALARM CIRCUIT WIRING SHALL BE RUN IN EMT.
8. PROVIDE CLEAR LABEL TO ALL DEVICES DISPLAYING ADDRESS ON DEVICE.
9. WALL MOUNTED STROBES/SPEAKERS SHALL BE INSTALLED NOT LESS THAN 6'–6" AND NOT MORE THAN 8'–0" FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR.
10. ALL STROBE CIRCUITS SHALL BE WIRED TO FLASH IN SYNCHRONIZATION: PROVIDE SYNCHRONIZATION MODULE FOR EACH STROBE CIRCUIT.
11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES AND STANDARDS:
    1) NFPA 70, THE NATIONAL ELECTRICAL CODE.
    2) NFPA 72, THE NATIONAL FIRE ALARM CODE,
    3) NFPA 101, THE LIFE SAFETY CODE.
12. ALL FIRE–RATED ASSEMBLIES PENETRATED SHALL BE SEALED WITH AN APPROPRIATE UL LISTED FIRE–RESISTIVE THROUGH PENETRATION SYSTEM. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS.

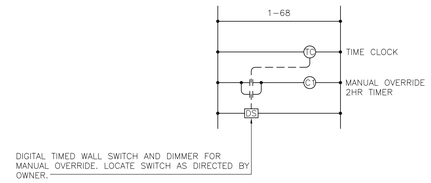


DETAIL - NURSE CALL RISER

SCALE: NONE

NOTES:
1. VERIFY AMOUNT OF DEVICES WITH FLOOR PLAN, REFER TO SHEET E–101.

CONTACTOR CONTROL SCHEDULE		
PANEL	CIRCUIT NUMBER	CONTACTOR
LRPC1	66	C1



DETAIL - TIMECLOCK - EXTERIOR LIGHTING

SCALE: NONE

NOTE: LOCATE EQUIPMENT IN TEL/DATA ROOM.

LIGHTING FIXTURE SCHEDULE

NOTE: VERIFY CEILING AND WALL CONSTRUCTION AND FINISHES WITH THE ARCHITECT'S DRAWINGS AND FINISH SCHEDULES. FURNISH PROPER MOUNTING FRAMES, BRACKETS AND HARDWARE AS REQUIRED TO BE COMPATIBLE WITH ARCHITECTURAL FINISHES. MOUNTING HEIGHTS INDICATED ARE TO BOTTOM OF FIXTURE. ALL FINISHES SELECTED BY ARCHITECT.

TYPE	DESCRIPTION	LAMPS			MAX W.	MOUNTING	MANU. / MODEL No. (OR APPROVED EQUAL)
		VOLTS	NO.	TYPE			
A	2'X4' LED TROFFER; DIFFUSE MATTE ACRYLIC CENTER; 3500K; 4000 LUMENS; 0-10V DIMMING DRIVER.	120	1	LED	41	RECESSED	HE WILLIAMS AT2-24-L40/835-D-DIM-120
B	2'X2' LED TROFFER; DIFFUSE MATTE ACRYLIC CENTER; 3500K; 3000 LUMENS;	120	1	LED	31	RECESSED	HE WILLIAMS AT2-22-L30/835-D-DIM-120
C	6" LED DOWNLIGHT; 3500K; 1500 LUMENS; 0-10V DIMMING DRIVER.	120	1	LED	20	RECESSED	HE WILLIAMS L60-L15/835-CS-DIM-120
D	6" LED DOWNLIGHT; OPEN AUDJUSTIBLE, SLOPE CEILING FIXTURE; 3500K; 1500 LUMENS; 0-10V DIMMING DRIVER.	120	1	LED	21	RECESSED	HE WILLIAMS LDR60-L15/835-CS-DIM-120
F	ARCHITECTURAL PENDANT	120	4	2G11	108	CEILING	VISA MIDLANDS CRAFT CP4810-4F27-BZ
H	LINEAR DIRECT PENDANT; 3-1/8" X 5"; EXTRUDED ALUMINUM HOUSING. PROVIDE 0-10V DIMMING DRIVER; CONTINUOUS HOUSING.	120	1	LED	39.5	PENDANT	PAL LIGHTING MLS3-D.HO.K35.CN.120.DM SERIES
J	8.5" LED DOWNLIGHT	120	1	LED	72	RECESSED	HE WILLIAMS H85-L64/835-SPC/W-MWT-DRV-120
K	8' WALL MOUNTED CANTILEVER LIGHT	120	2	T8	32	SURFACE	WINONA SICE LLP 8FT MSL8 INT 1 32 120
L	4' STRIP LIGHT	120	1	LED	56	RECESSED	HE WILLIAMS 7SL-4-L50/835-A12125-DRV-120

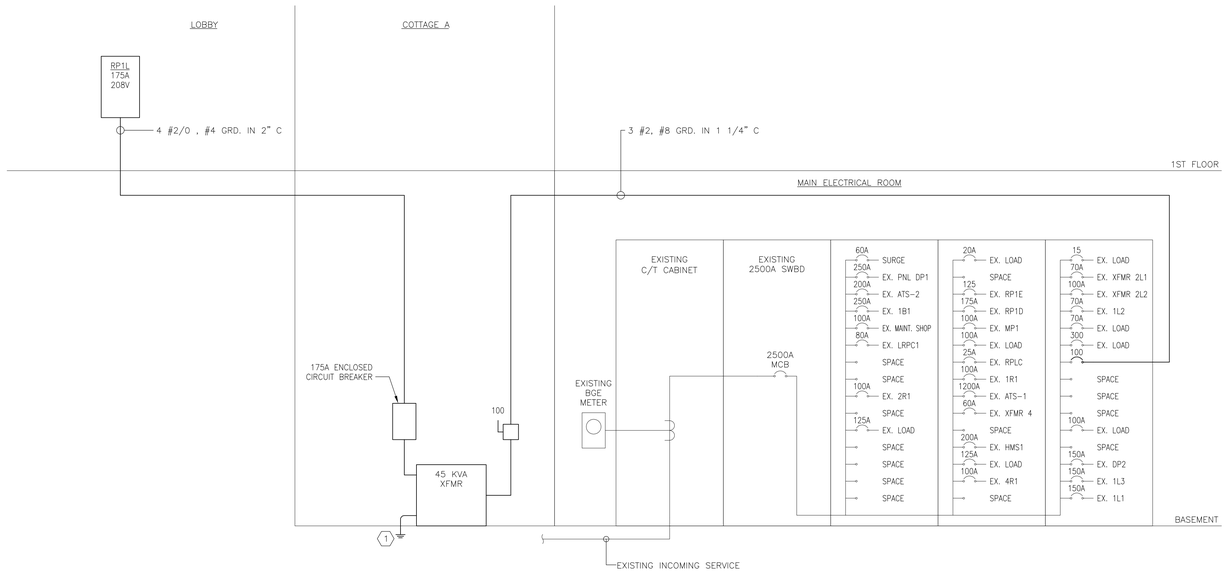
PANEL RP1L (R-CIRCUIT NUMBER)

Volts: **208/120** Bus: **200A** Poles: **42** Remarks:
Phase: **3** Main: **175A MCB** Mtg: **SURFACE**
Wire: **4** AIC: **10,000**

CKT	FOR	CIRCUITING SETS	CIRCUITING NO	CIRCUITING SIZE	CIRCUITING C.	BREAKER POLE	BREAKER AMP	LOAD KVA	LOAD Phase	BREAKER KVA	BREAKER AMP	BREAKER POLE	CIRCUITING C.	CIRCUITING SIZE	CIRCUITING NO	CIRCUITING SETS	FOR	CKT
1	LTS OFFICES	1	2/1	12/12	3/4"	1	20A	0.74	a	0.72	20A	1	3/4"	12/12	2/1	1	REC OFFICE 2 & 3	2
3	LTS WAITING/CORRIDOR	1	2/1	12/12	3/4"	1	20A	1.18	b	0.72	20A	1	3/4"	12/12	2/1	1	REC OFFICE 2 & 3	4
5	LTS FRONT CANOPY	1	2/1	12/12	3/4"	1	20A	0.58	c	0.18	20A	1	3/4"	12/12	2/1	1	REC ELEC	6
7	EF-1, 2 & 3	1	2/1	12/12	3/4"	1	20A	0.28	a	1.08	20A	1	3/4"	12/12	2/1	1	REC GFT/STOR/IC/TOILET	8
9	FCU-L-1	1	2/1	12/12	3/4"	2	15A	0.70	b	0.72	20A	1	3/4"	12/12	2/1	1	REC OFFICE 1/RECEPTION	10
11	-	-	-	-	-	-	-	0.70	c	0.72	20A	1	3/4"	12/12	2/1	1	REC OFFICE 1/RECEPTION	12
13	FCU-L-2	1	2/1	12/12	3/4"	2	15A	0.70	a	1.08	20A	1	3/4"	12/12	2/1	1	REC CONF/MAIL/TOILET	14
15	-	-	-	-	-	-	-	0.70	b	0.72	20A	1	3/4"	12/12	2/1	1	REC WAITING/CORRIDOR	16
17	FCU-L-3	1	2/1	12/12	3/4"	2	15A	0.70	c	0.72	20A	1	3/4"	12/12	2/1	1	REC WAITING/CORRIDOR	18
19	-	-	-	-	-	-	-	0.70	a		-	-	-	-	-	-		20
21	FCU-L-4	1	2/1	12/12	3/4"	2	15A	0.70	b		-	-	-	-	-	-		22
23	-	-	-	-	-	-	-	0.70	c		-	-	-	-	-	-		24
25	UH-1	1	2/1	12/12	3/4"	1	20A	0.04	a		-	-	-	-	-	-		26
27		-	-	-	-	-	-		b		-	-	-	-	-	-		28
29		-	-	-	-	-	-		c		-	-	-	-	-	-		30
31		-	-	-	-	-	-		a		-	-	-	-	-	-		32
33		-	-	-	-	-	-		b		-	-	-	-	-	-		34
35		-	-	-	-	-	-		c		-	-	-	-	-	-		36
37		-	-	-	-	-	-		a		-	-	-	-	-	-		38
39		-	-	-	-	-	-		b		-	-	-	-	-	-		40
41		-	-	-	-	-	-		c		-	-	-	-	-	-		42

NOTES:

Total 5.34 Connected kVa — Phase A Amps: 45.00
5.44 Connected kVa — Phase B Amps: 45.00
4.30 Connected kVa — Phase C Amps: 36.00
15.07 Connected kVa — **Average Connected Amps:** 41.86
15.70 Demanded Kva — **Average Demand Amps:** 43.60
125% Connected Amps: 52.33



ELECTRICAL RISER DIAGRAM

SCALE: NOT TO SCALE

1 PROVIDE GROUNDING ELECTRODE CONDUCTOR PER NEC TABLE 250.66.

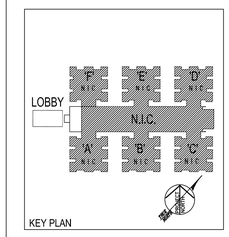
Little Sisters of the Poor

601 Maiden Choice Lane
Baltimore, MD 21228

Gaudreau, Inc.
810 Light Street, Baltimore, MD 21230
410.837.5040

JennErik Engineering, Inc.
8833 Belair Road, Notingham, MD 21236
410.870.1300

Skarda And Associates, Inc.
2439 North Charles Street, Baltimore, MD 21218
410.366.9384



KEY PLAN

Gaudreau, Inc.
ARCHITECTS I PLANNERS
810 Light Street | Baltimore | Maryland 21230
410.837.5040 | www.gaudreauinc.com

Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland.
License No: 19966 Expiration Date: 03/04/2019

PERMIT DOCUMENTS

Number	Description	Date
-	Permit Set	04.21.2017
-	Bid Set	05.01.2017

Date: 05/01/2017

Project Number: 17000.00

ELECTRICAL DIAGRAMS AND DETAILS

E-501

JEI #13056F