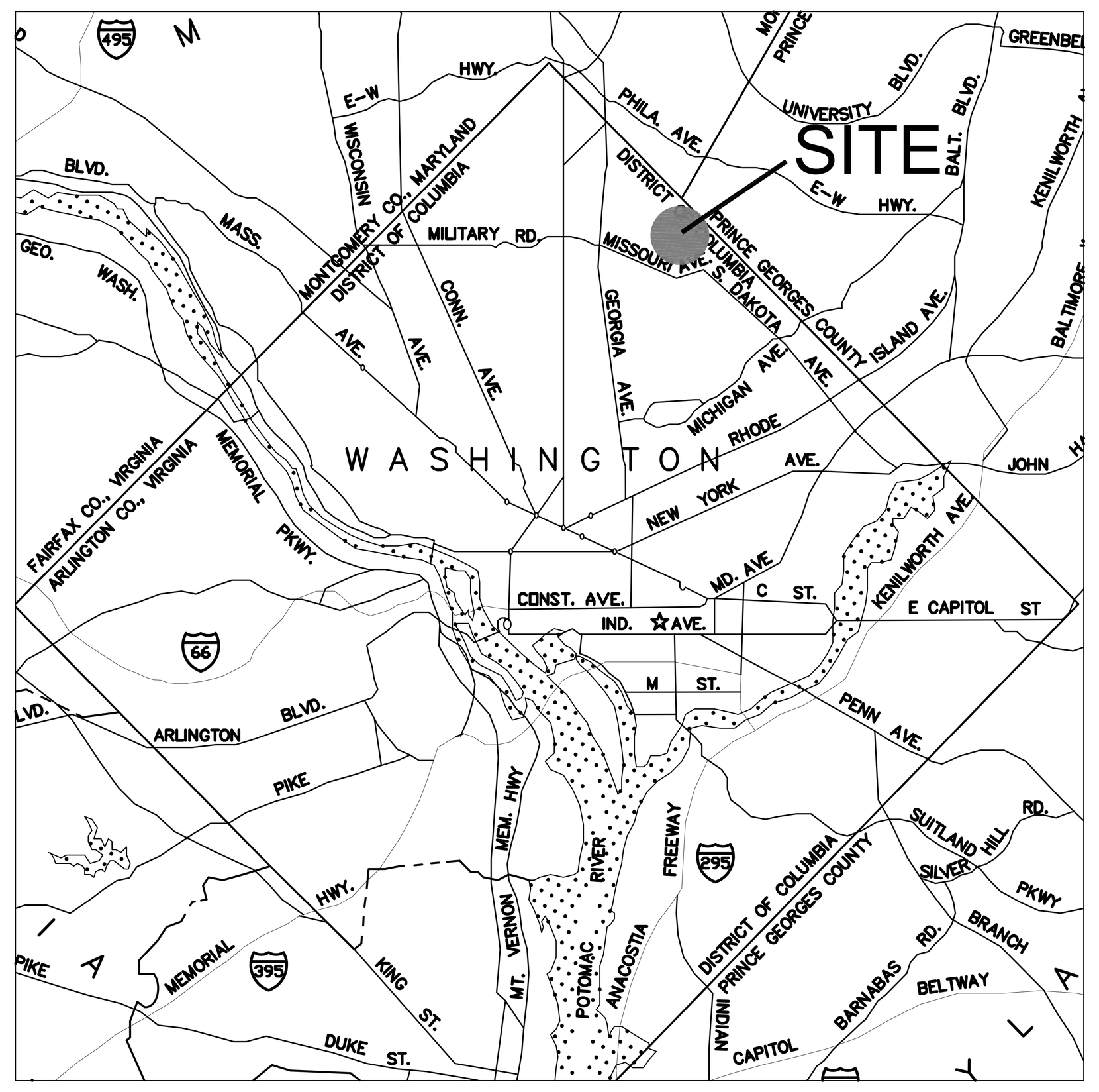
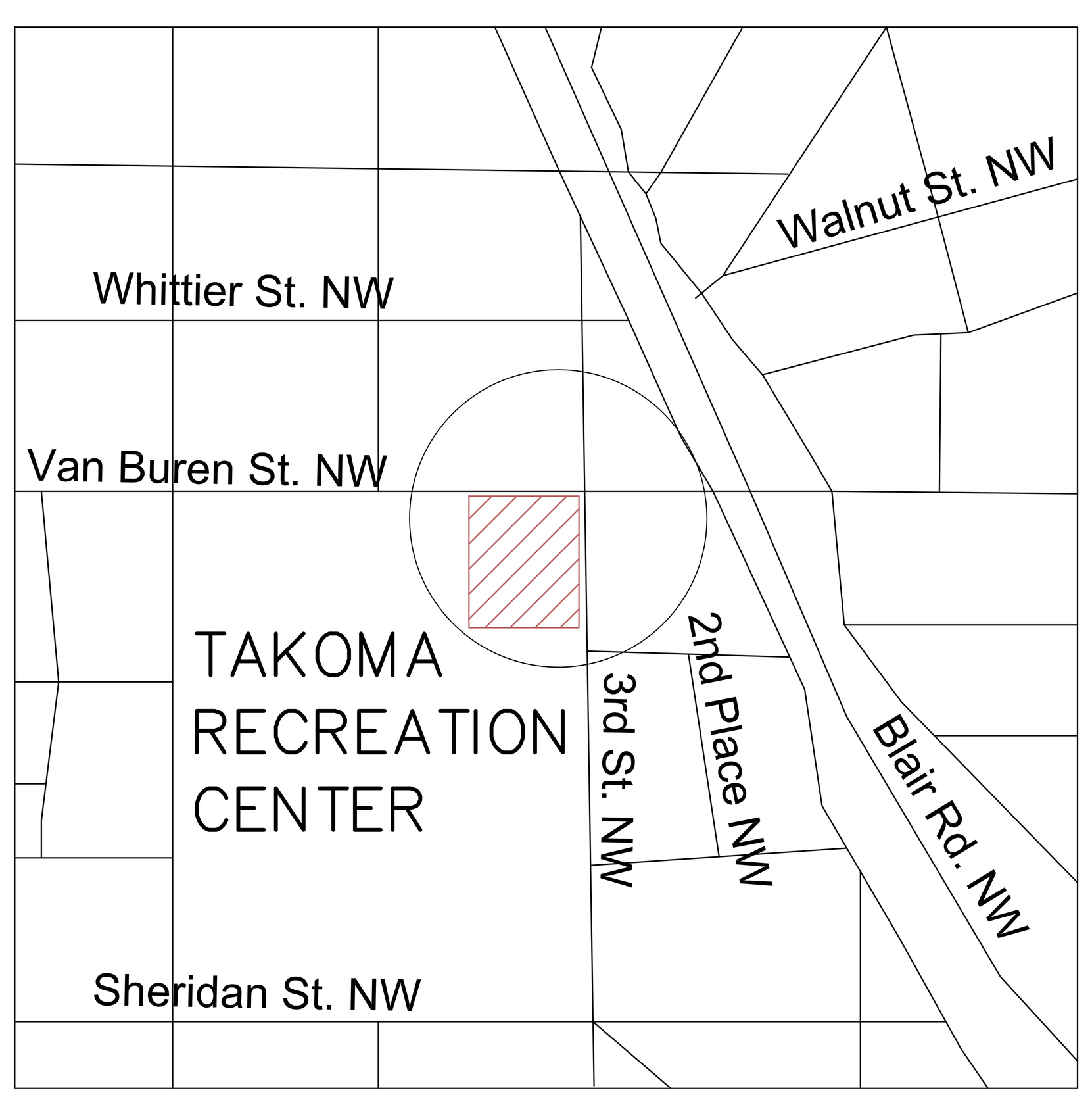


Location Map



Vicinity Map

TAKOMA AQUATIC CENTER
Renovation Phase 1

for

DEPARTMENT OF PARKS AND RECREATION
Washington, DC

ARCHITECT

QUINN EVANS ARCHITECTS
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WASHINGTON DC 20037
202 298 6700

MEP ENGINEERS

GLOBAL ENGINEERING SOLUTIONS
5225 WISCONSIN AVENUE
SUITE 300
WASHINGTON DC 20015
202 495 7746

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002 NOTES

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A102 FIRST FLOOR PLANS AND ELEVATIONS

A601 MENS LOCKER ROOM PLANS AND ELEVATIONS
A602 WOMENS LOCKER ROOM PLANS AND ELEVATIONS

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MD110 MECHANICAL DUCTWORK DEMOLITION

M110 BASEMENT DUCTWORK NEW WORK
M111 FIRST FLOOR DUCTWORK NEW WORK
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ELECTRICAL
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LARRY R. BARR
ARC 100516
REGISTERED ARCHITECT

TAKOMA AQUATIC CENTER Phase 1

300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

COVER SHEET

PERMIT SET
12/09/2015

NO.	TITLE	DATE

FILE NAME:

001

GENERAL NOTES

1 THESE NOTES ARE TO BE READ IN CONJUNCTION WITH ANY WRITTEN SPECIFICATIONS AND THESE DRAWINGS. IN THE EVENT OF CONFLICT BETWEEN THE INFORMATION ON THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

2 THE AREA IMMEDIATELY OUTSIDE OF THIS BUILDING WILL BE OCCUPIED DURING THE COURSE OF THE PROJECT. THE WORK SHALL NOT IMPACT OCCUPIED PORTIONS OF THE SITE.

3 REQUIRED EGRESS PATHS SHALL NOT BE BLOCKED. DUST AND DEBRIS SHALL BE CONTAINED WITHIN THE WORK AREA. COORDINATE HOURS OF WORK WITH THE RECREATION CENTER.

4 THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS PRIOR TO BEGINNING THE WORK.

5 THE CONTRACTOR SHALL PROVIDE PROTECTION AND TAKE PRECAUTION TO AVOID DAMAGE TO ADJACENT ITEMS, MATERIALS AND FINISHES. DEMOLITION AND NEW CONSTRUCTION SHALL PROCEED WITH CARE SO AS TO NOT DAMAGE HISTORIC FINISHES. ANY EXISTING ITEMS OR FINISHES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.

6 THESE DRAWINGS HAVE BEEN DEVELOPED BY THE ARCHITECT AND REPRESENT TO THE BEST OF THEIR KNOWLEDGE ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL USE ALL REASONABLE AND CUSTOMARY CARE TO VERIFY ALL EXISTING CONDITIONS IN FIELD. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF INCONSISTENCIES BETWEEN THESE DRAWINGS AND ACTUAL CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION OR DEMOLITION. INFORMATION CONTAINED ON THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS OF CONSTRUCTION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR IN EXECUTING THE WORK.

7 THE FOLLOWING WORDS & PHRASES ARE DEFINED AS FOLLOWS:
COMPLETE: 100% OF THE IDENTIFIED SURFACE PLANE: WALL TO WALL OR CORNER TO CORNER.
PAINT: PREPARE SURFACE AS SPECIFIED IE. REMOVE MISCELLANEOUS HARDWARE. PATCH MINOR HOLES AND CRACKS, SEAL STAINS, ETC.) AND PAINT.
PROVIDE: FURNISH AND INSTALL NEW OBJECT AS INDICATED.
REINSTALL: INSTALL EXISTING ITEMS WHICH HAVE BEEN REMOVED AND SALVAGED.
REFURBISH: TO MAKE NEAT, CLEAN OR COMPLETE BY RENOVATING OR RESTORING.
REMOVE: DISASSEMBLE, DISMANTLE OR DEMOLISH AND TRANSPORT FROM THE SITE.
REMOVE AND SALVAGE: CAREFULLY DISMANTLE EXISTING MATERIALS OR ASSEMBLIES. PROVIDE PROTECTION SUITABLE FOR MAINTAINING EXISTING CONDITIONS OF MATERIALS, AND STORE SALVAGED MATERIAL FOR REINSTALLATION.
REMOVE AND REPLACE: DISMANTLE AND DISPOSE OF IDENTIFIED ITEM. PROVIDE NEW ITEM IDENTICAL TO THE REMOVED ITEM.
REPAIR: CUT AND REMOVE DAMAGED PORTION OF ITEM IDENTIFIED AND PATCH WITH NEW MATERIAL THAT MATCHES THE REMOVED ITEM IN MATERIAL AND PROFILE.
REPLACE: TO REMOVE, DUPLICATE AND REINSTALL PORTION OF ITEM IDENTIFIED AND PATCH WITH NEW MATERIAL THAT MATCHES THE REMOVED ITEM IN MATERIAL AND PROFILE UNLESS OTHERWISE NOTED.
RESTORE: TO KEEP ORIGINAL MATERIALS IN PLACE WHILE PERMITTING THE REMOVAL OF NONORIGINAL MATERIALS IN ORDER TO RETURN TO THE ORIGINAL CONDITION DURING REPAIRS AND CLEANING.
RETAIN: TO KEEP EXISTING ITEMS THAT ARE NOT TO BE REMOVED OR DISMANTLED.
SIMILAR: THE REFERENCED DETAIL MUST BE MODIFIED TO MEET THE REQUIREMENTS OF THIS SPECIFIC LOCATION. CONTRACTOR IS TO SUBMIT MARKED DETAIL SKETCH FOR REVIEW BY ARCHITECT.
TYPICAL: THE IDENTIFIED TREATMENT IS TO BE APPLIED AT ADDITIONAL LOCATIONS THROUGHOUT THE DRAWING WHERE SIMILAR CONDITIONS EXIST.

8 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SEQUENCING ALL WORK AND FOR COORDINATION OF ALL SUBCONTRACTORS. REINSTALLATION OF ANY WORK INSTALLED THAT HAS NOT BEEN COORDINATED AND HAS TO BE REINSTALLED SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

9 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES TO ASSURE PROPER REMOVAL OF EXISTING CONSTRUCTION AND THE INSTALLATION OF ALL NEW CONSTRUCTION.

10 THE CONTRACTOR'S EQUIPMENT, SCAFFOLDS AND STAGING SHALL NOT BLOCK NOR LIMIT ACCESS TO THE STRUCTURE BY THE FIRE DEPARTMENT IN THE EVENT OF AN EMERGENCY. PARKING AREAS, DRIVEWAYS, SIDEWALKS, AND SURFACED STREETS SHALL BE MAINTAINED IN A CLEAN CONDITION. ADEQUATE MEANS SHALL BE PROVIDED TO CLEAN TRUCKS AND OTHER EQUIPMENT USING SURFACED STREETS AND PARKING AREAS.

11 THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATERTIGHT CONDITION AT ALL TIMES DURING CONSTRUCTION.

12 BEFORE BEGINNING CONSTRUCTION, AND FOLLOWING THE COMPLETION OF WORK, THE CONTRACTOR IS TO CLEAR DEBRIS AND CONFIRM PROPER FLOW AT DRAINS. DRAINS TO BE CLEARED INCLUDE BUT ARE NOT LIMITED YARD DRAINS, PLUMBING FIXTURES, AREAWAY DRAINS, AND FLOOR DRAINS.

13 DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION OF NEW WORK. ALL DIMENSIONS TO NEW CONSTRUCTION ARE TO FACE OF STRUCTURE. ALL DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH FACE UNLESS OTHERWISE NOTED. NOTES TO ALIGN NEW CONSTRUCTION WITH EXISTING CONDITIONS ARE FROM FACE OF EXISTING FACE TO FACE OF NEW FINISH.

14 THESE DRAWINGS ARE NOT TO BE SCALED FOR THE PURPOSE OF LAYING OUT DEMOLITION OR NEW WORK. USE FIGURED DIMENSIONS ONLY.

15 MOLD MAY BE ENCOUNTERED IN THE WORK. IF MOLD IS ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK IN THE SUBJECT AREA, TEST THE MATERIAL TO CONFIRM, AND NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL THEN ARRANGE FOR REMOVAL BY A PRE-APPROVED MOLD SUB-CONTRACTOR .

16 THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL NATIONAL, REGIONAL, AND LOCAL CODES AND REGULATIONS PERTAINING TO WORKING WITH AND DISPOSING OF ALL HAZARDOUS MATERIALS.

17 ALL DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND REGULATIONS SET FORTH BY GOVERNING AUTHORITIES. ALL ITEMS INDICATED TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE. MATERIALS SHALL BE RECYCLED TO THE GREATEST EXTENT POSSIBLE.

18 THE CONTRACTOR SHALL NOT CUT STRUCTURAL WORK IN A MANNER THAT REDUCES THE LOAD-CARRYING CAPACITY OR LOAD/DEFLECTION RATIO. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL STRUCTURAL CUTS PRIOR TO EXECUTION SO THAT APPROVAL CAN BE OBTAINED FROM THE STRUCTURAL ENGINEER OF RECORD.

19 IF EXISTING PIPING, DUCTWORK, OR ELECTRICAL CONDUIT WORK (OTHER THAN THAT SCHEDULED FOR REMOVAL OR NEW CONNECTION) IS ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING.

20 MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR INSTALLATION ARE TO BE FOLLOWED FOR ALL ITEMS UNLESS SPECIFICALLY STATED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.

APPLICABLE CODES:

The project is designed in accordance with the District of Columbia Construction Codes Supplement (DCCC) of 2013 which adapts and amends the International Code Council (ICC) Model Codes and Standards, 2012 editions, Including but not limited to the following:
BUILDING: 2012 ICC International Building Code (IBC)
MECHANICAL: 2012 ICC International Mechanical Code (IMC)
PLUMBING: 2012 ICC International Plumbing Code (IPC)
ELECTRICAL: 2012 ICC International Electrical Code NFPA NEC 2011
FIRE: 2012 ICC International Fire Code (IFC)
Other Guidelines, Codes, Regulations and Local Utility Requirements:
- National Fire Protection Association (NFPA) National Electrical Code 2011
- Title 12 of the District of Columbia Municipal Regulations (DCMR)
- DC Green Building Act
- DCWASA (District of Columbia Water and Sewer Authority)
- ASHRAE 90.1
Federal Government Legislation, Regulations, Standards and Guidelines:
- ADA Accessibility Guidelines for Buildings and Facilities (ADAAG)
- Uniform Federal Accessibility Standards (UFAS)
- Occupational Safety and Health Administration (OSHA)
The authority having jurisdiction (AHJ) for this project is the District of Columbia.

PROJECT DESCRIPTION:
This set of drawings documents the Phase 1 Renovation of Takoma Aquatic Center located on 300 Van Buren Street, NW. Finishes in the two locker rooms will be replaced with like kind materials. Finishes to be replaced include, floor tiles, shower and toilet partitions and lockers. Flooring in hall way and office will also be replaced. A reception desk will be built in the main lobby on the first floor. Equipments, such as life guard chairs, and lane markers will be replaced. A score board will be provided. Finishes in the pool will be repaired. A UV filtration system will be installed for the pool. A fence will be provided at the leisure pool.

Mechanical fans will be installed to help with air circulation in the pool along with repairs to the existing system. Refer to MEP drawings for the scope.

Building Type, height/area: no change
Use and Occupancy Classification : no change
Occupant Load: no change
Means of Egress and Exits: no change

ABBREVIATIONS LIST

ABT	ABOUT
A/C	AIR CONDITIONING
ADD	ADDENDUM
ADJ	ADJACENT
AHU	AIR HANDLER UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
BLDG	BUILDING
BLK	BLOCK
BOT	BOTTOM
CEM	CEMENT
CIP	CAST-IN-PLACE
CJT	CONTROL JOINT
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COORD	COORDINATE
DEMO	DEMOLISH/DEMOLITION
DIAM	DIAMETER
DIM	DIMENSION
DR	DOOR
DTL	DETAIL
DWG	DRAWING
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
ETR	EXISTING TO REMAIN
EXST/EX	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FIN(S)	FINISH(ES)
FIX	FIXED WINDOW
FIXT	FIXTURE
FT	FEET
FURR	FURR(ED/ING)
GA	GAGE/GAUGE
GC	GENERAL CONTRACT(OR)
GL	GLASS/GLAZING
GWB	GYPSUM WALL BOARD
H	HIGH
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HOR	HORIZONTAL
HT	HEIGHT
IN	INCH
INCL	INCLUDE(D/ING)
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
MATL	MATERIAL(S)
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEP	MECH, ELEC, PLUMBING
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPG	OPENING
OPHD	OPPOSITE HAND
PROV	PROVIDE
PNT	PAINT(ED)
PLT	PLANTER
PLWD	PLYWOOD
PTD	PAINTED
RAD	RADIUS
REQD	REQUIRED
REV	REVISION(S)/REVISE(D)
RF	ROUGH FINISH (CONCRETE)
RM	ROOM
RO	ROUGH OPENING
SALV	SALVAGE
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRY(/ICAL)
SYS	SYSTEM
TEMP	TEMPORARY
THK	THICK(NESS)
THRESH	THRESHOLD
THRU	THROUGH
TOL	TOLERANCE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UL	UNDERWRITER'S LABORATORY
VAR	VARIES
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
@	AT
&	AND
#	NUMBER
±	EXIST DIM – VIF
CL	CENTERLINE

SYMBOLS

11	WINDOW NUMBER
01	DOOR NUMBER
	CLG MT HEATER
	CLG MTD LIGHT FIXTURE

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DISTRICT OF COLUMBIA
JOHN R. BAUER
REG. 100516
REGISTERED
ARCHITECT

TAKOMA AQUATIC CENTER Phase 1

300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

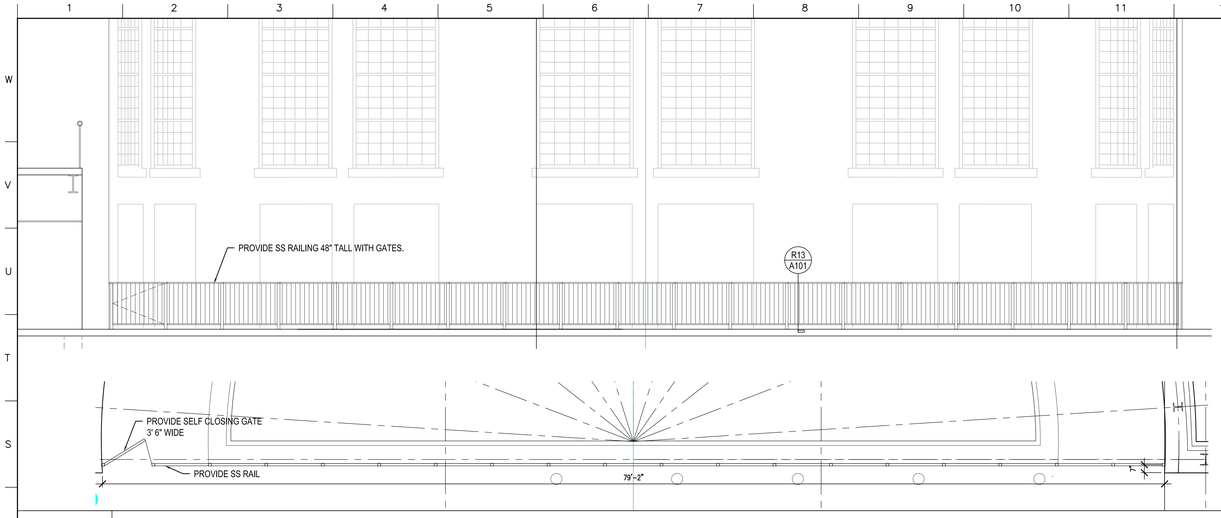
NOTES SHEET

PERMIT SET
12/09/2015

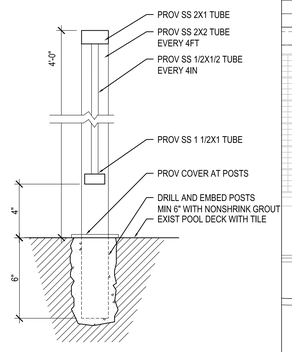
NO.	TITLE	DATE

FILE NAME:

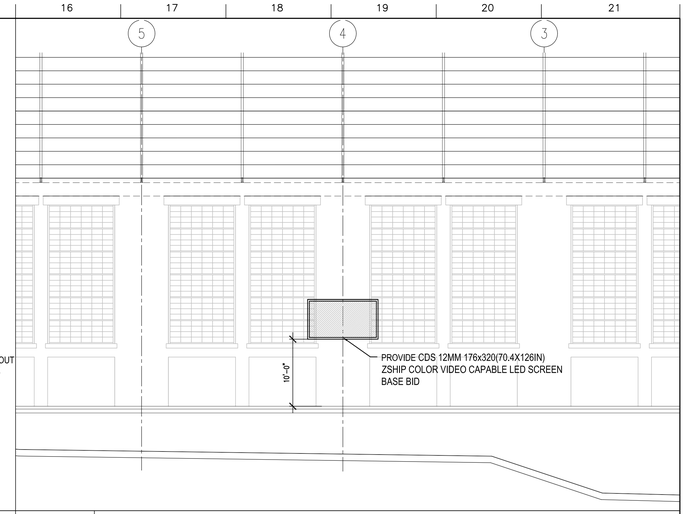
002



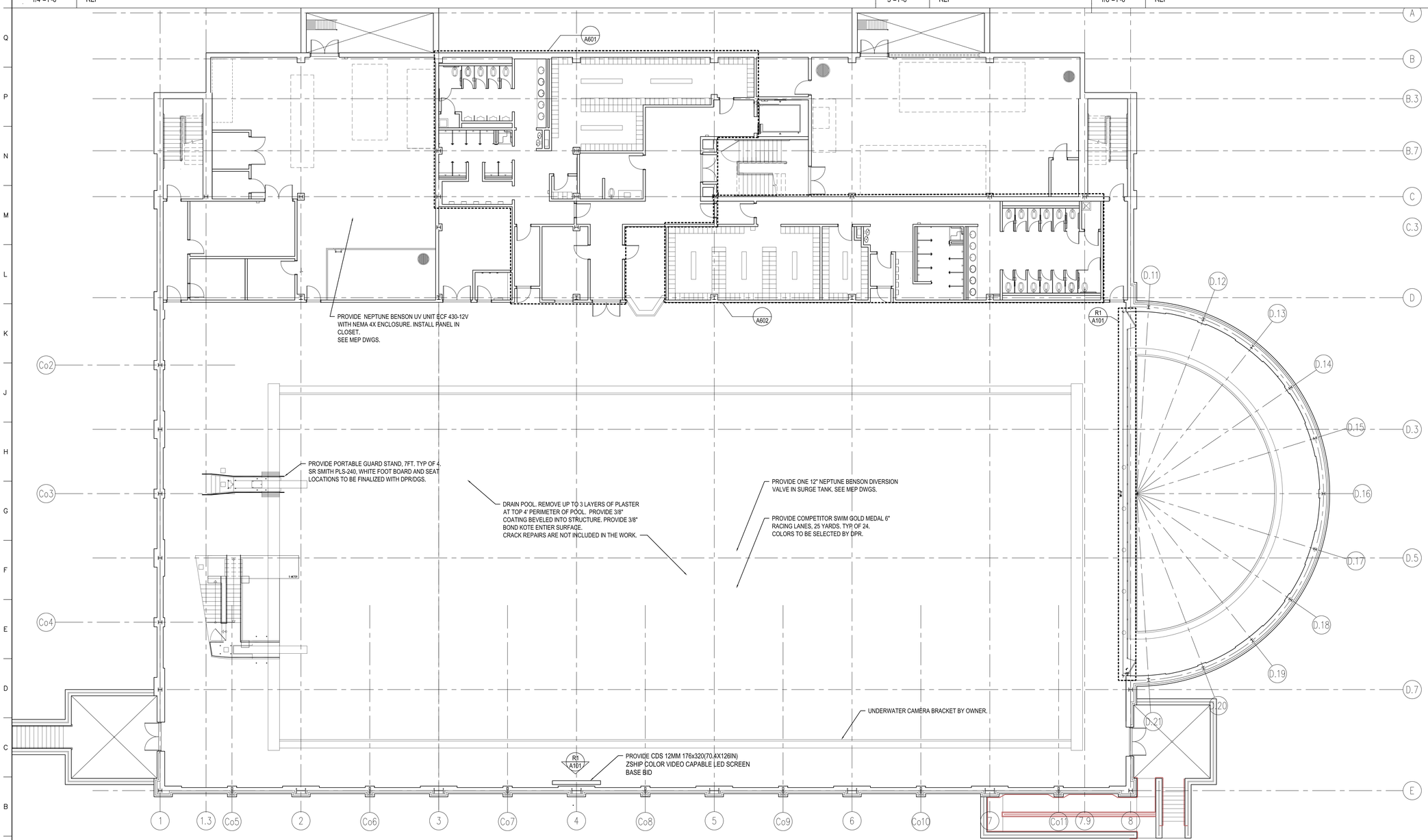
R1	PLAN AND ELEVATION AT LEISURE POOL RAILING
1/4"=1'-0"	REF



R13	GUARD RAIL DETAIL
3"=1'-0"	REF



R16	SCORE BOARD
1/8"=1'-0"	REF



A1	BASEMENT PLAN
1/8"=1'-0"	REF

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300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

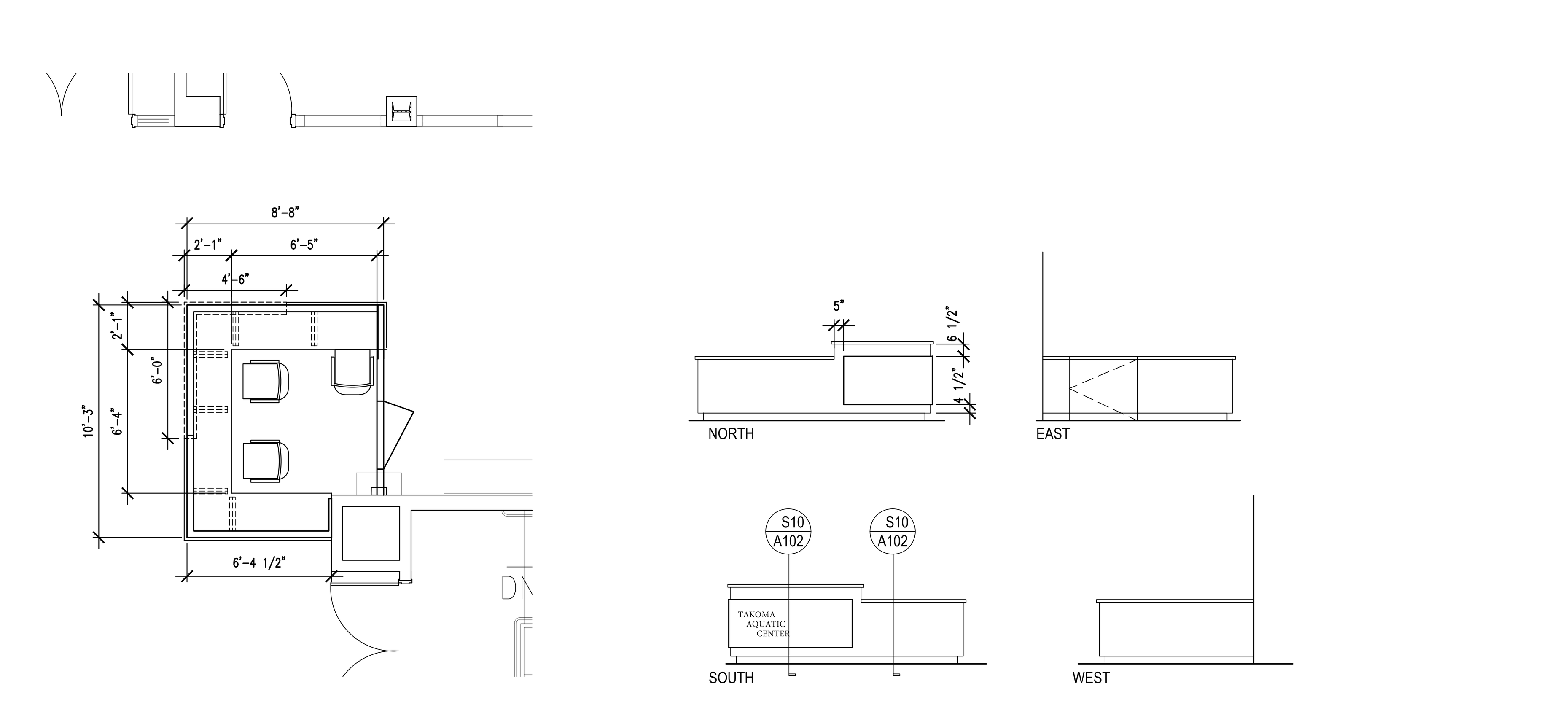
BASEMENT PLAN
NEW WORK

PERMIT SET
12/09/2015

NO.	TITLE	DATE

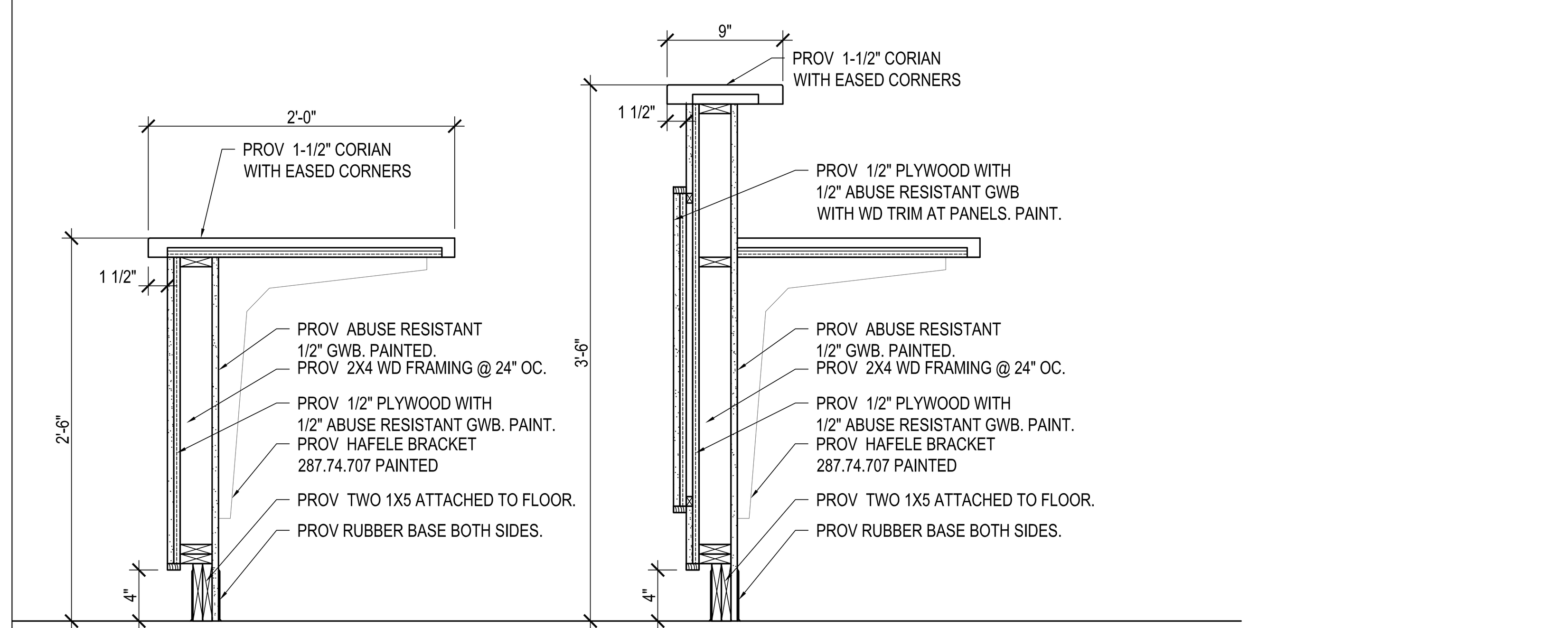
FILE NAME:

A101



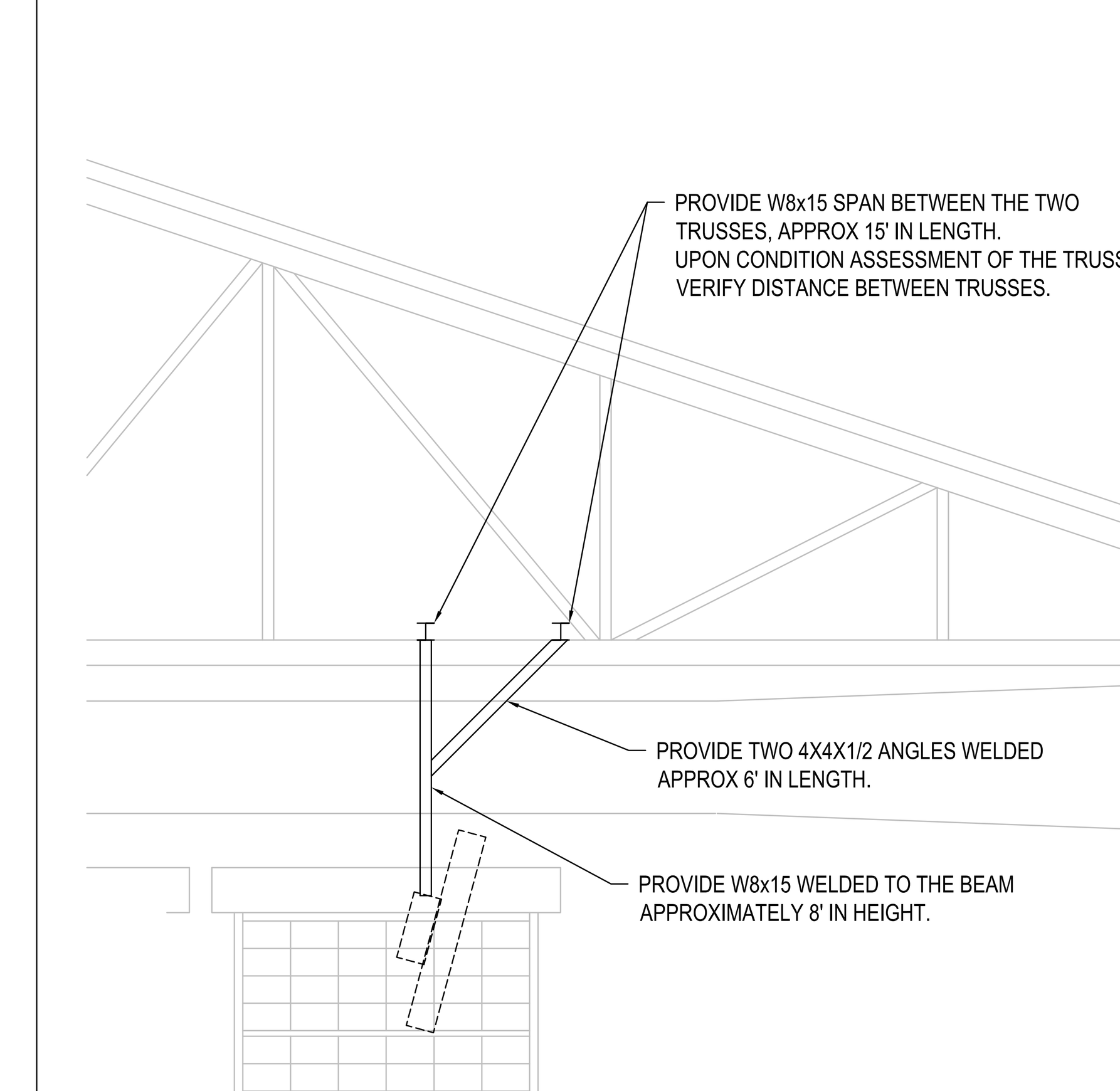
S1 RECEPTION DESK

1/4"=1'-0" REF



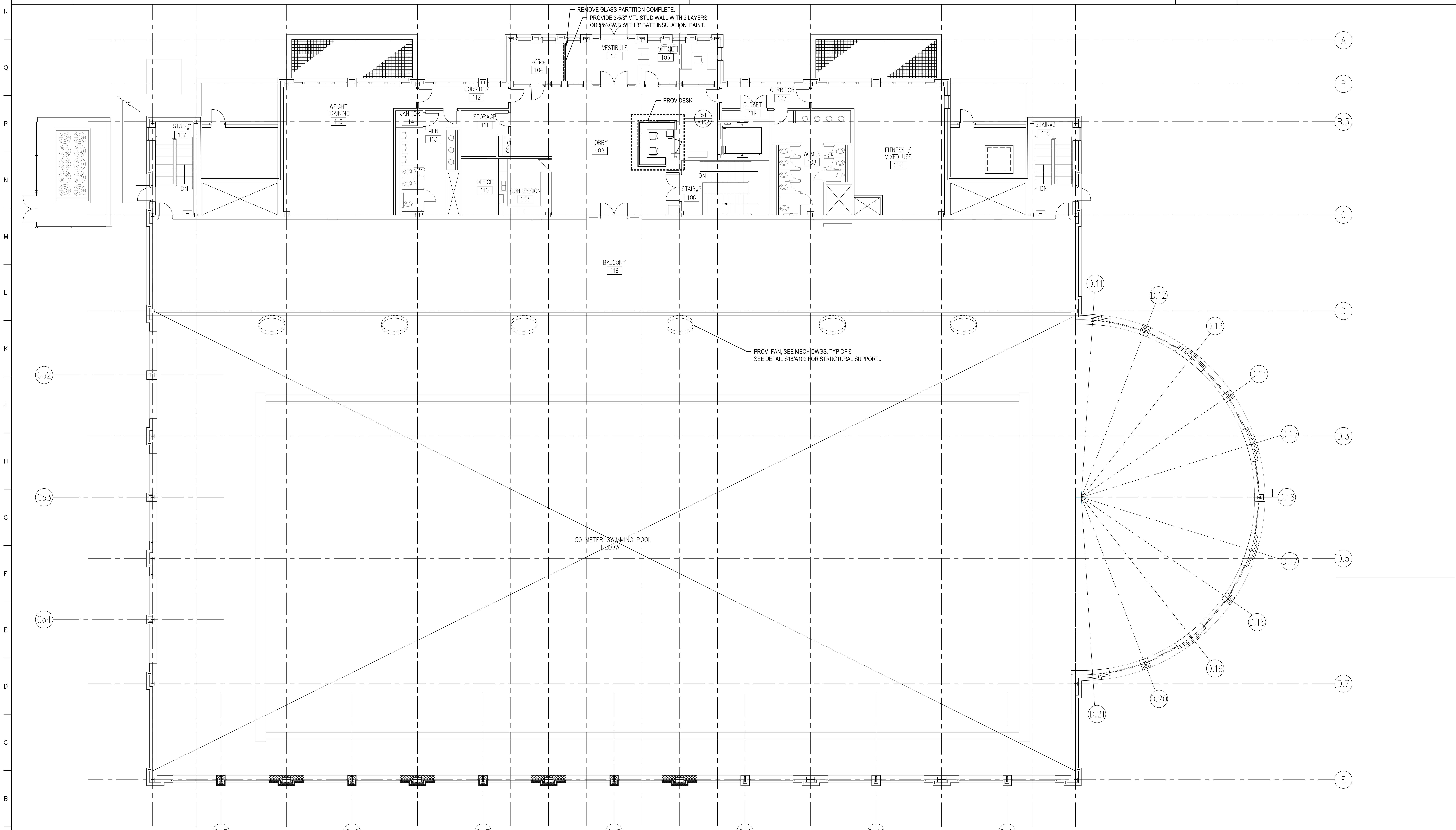
S10 DESK DETAIL

NO_SCALE REF



S18 BRACKET AT FANS

NO_SCALE REF



A1 FIRST FLOOR PLAN

1/8"=1'-0" REF

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WASHINGTON, DC 20012

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OWNER # 0000000000

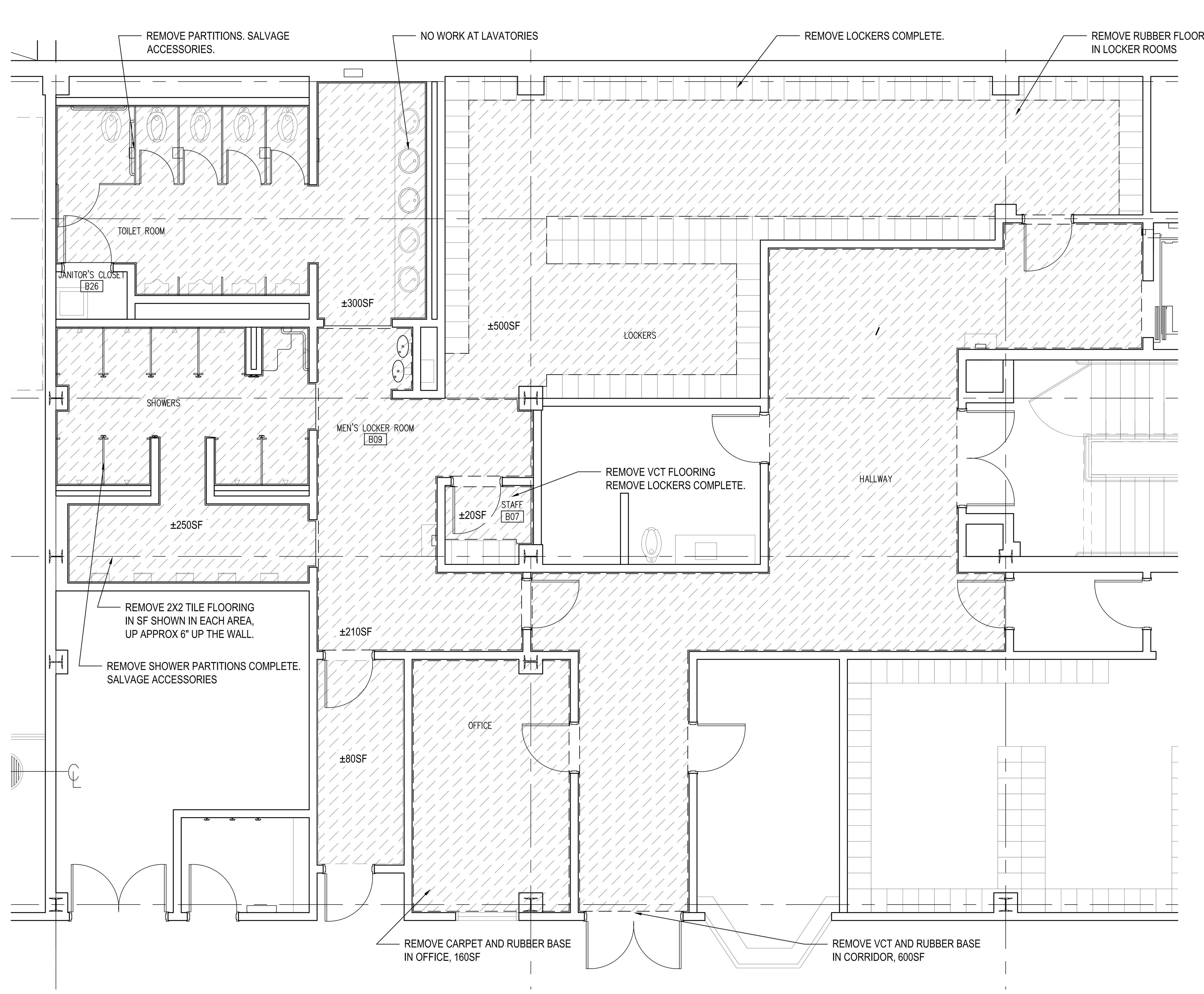
FIRST FLOOR NEW WORK

PERMIT SET
12/09/2015

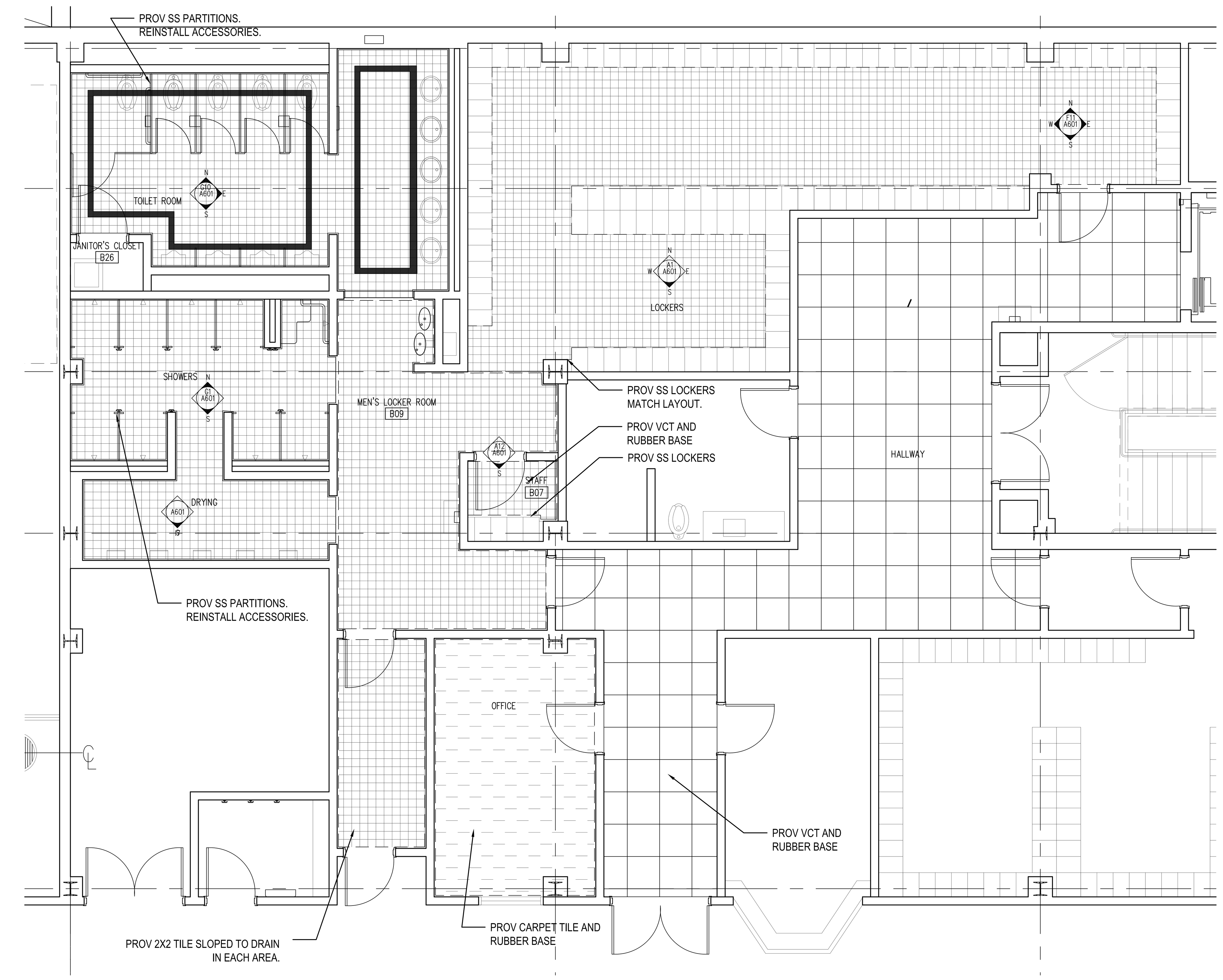
NO.	TITLE	DATE

FILE NAME:

A102



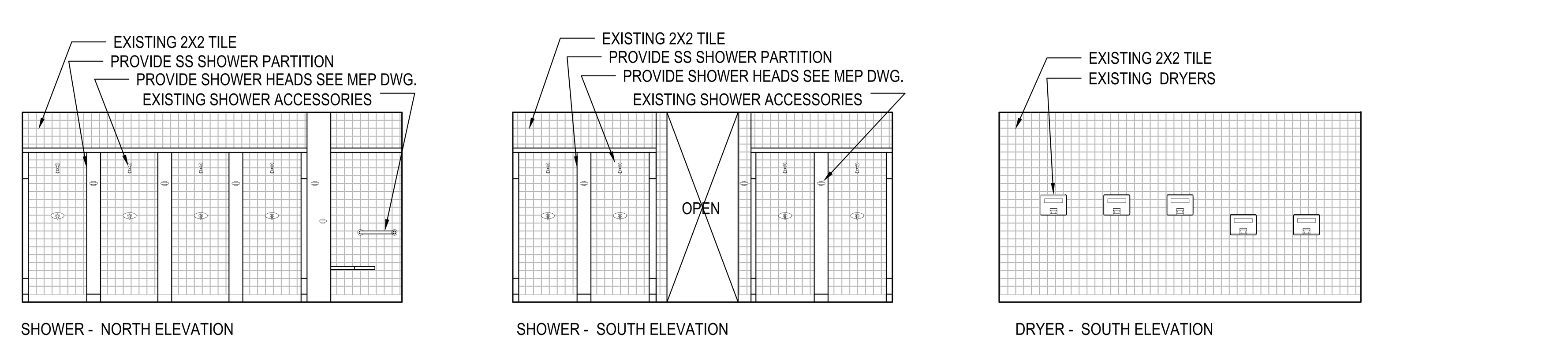
DEMOLITION WORK



NEW WORK

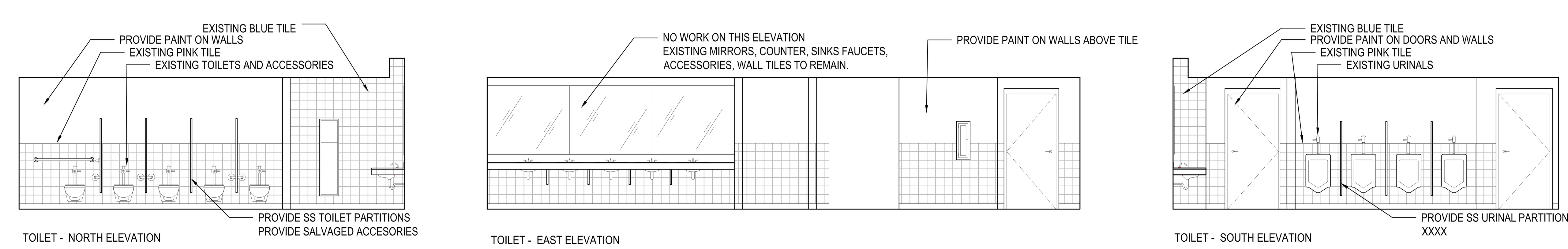
L1 BASEMENT PLAN - MEN'S LOCKER ROOM

1/4"=1'-0" REF



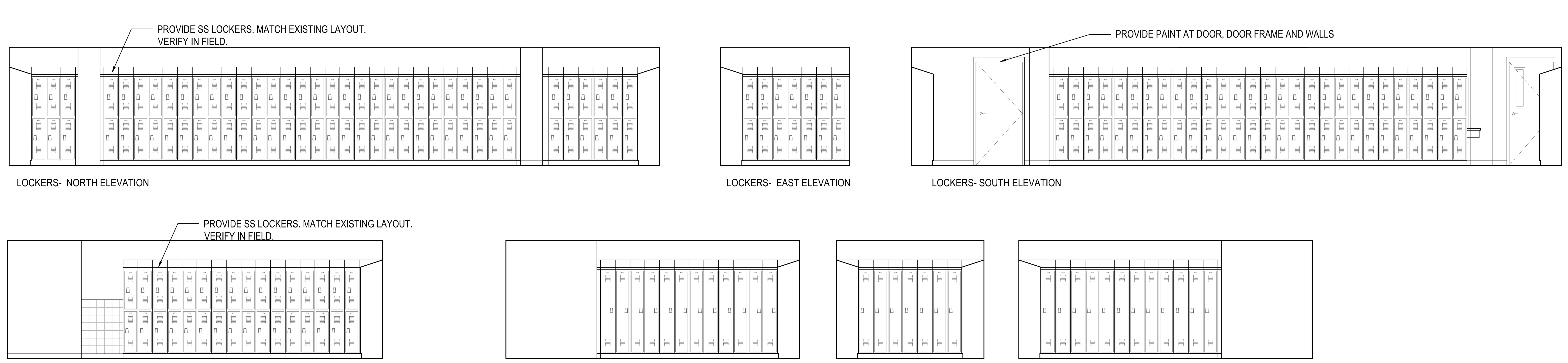
G1 SHOWER ELEVATIONS

1/4"=1'-0" REF



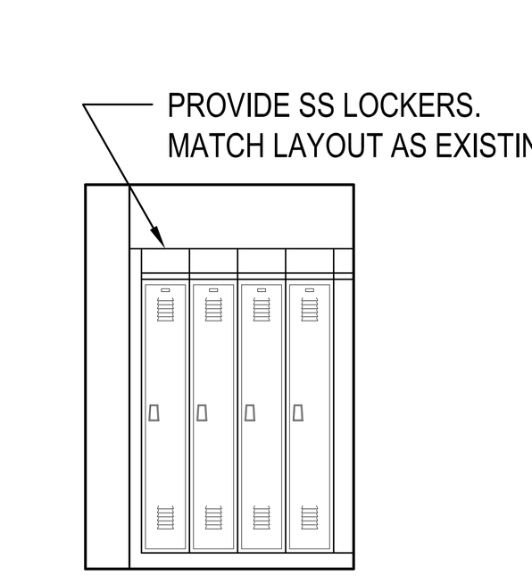
G10 TOILET ELEVATIONS

1/4"=1'-0" REF



A1 LOCKER ELEVATIONS

1/4"=1'-0" REF



A16 STAFF LOCKERS ELEVATION

1/4"=1'-0" REF

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TAKOMA AQUATIC CENTER Phase 1

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QEA # 31508100
OWNER # 0000000000

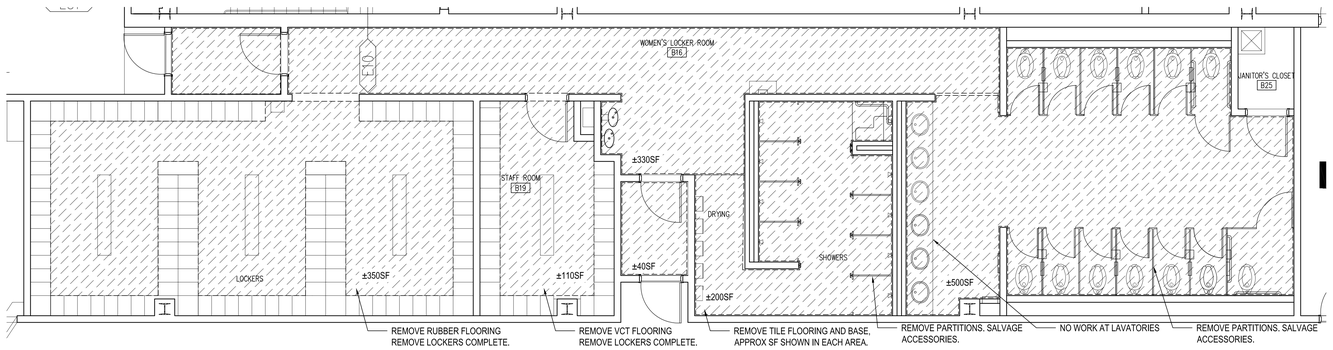
MENS LOCKER ROOM PLANS & ELEVATIONS

PERMIT SET
12/09/2015

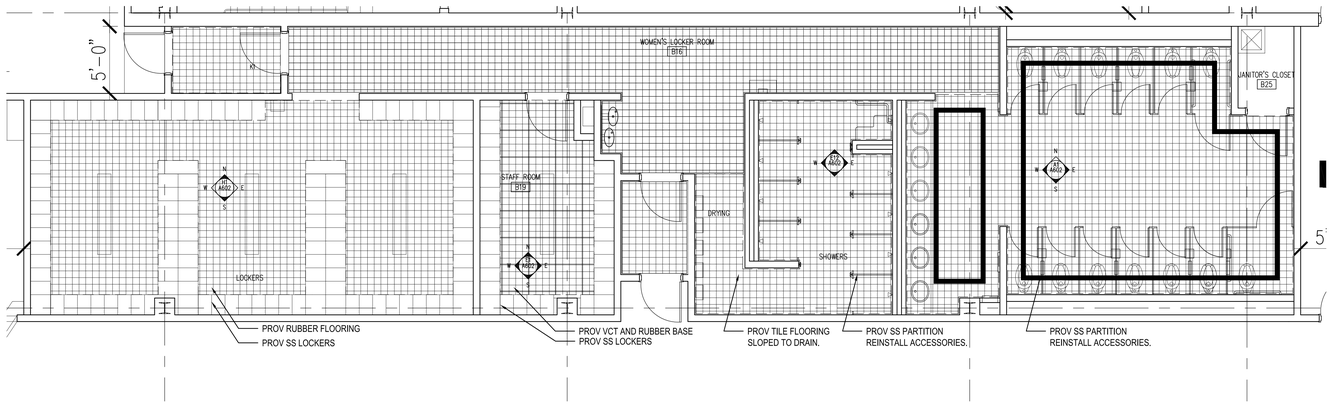
NO.	TITLE	DATE

FILE NAME:

A601



DEMOLITION PLAN



NEW WORK PLAN

L1	BASEMENT PLAN - WOMENS LOCKER ROOM
1/4"=1'-0"	REF

FINISH SCHEDULE

	Floor	Base	Wall				Ceiling	Remark
			North	East	South	West		
BASEMENT								
Mens Locker Room								
Lobby	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Toilets	CT1/CT2	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Shower	CT1	CT1	ECT	ECT	ECT	ECT	PT2	
Drying area	CT1	CT1	ECT	ECT	ECT	ECT	PT2	
Corridor to pool	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Staff Locker	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Locker Room	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Womens Locker Room								
Lobby	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Toilets	CT1/CT2	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Shower	CT1	CT1	ECT	ECT	ECT	ECT	PT2	
Drying area	CT1	CT1	ECT	ECT	ECT	ECT	PT2	
Corridor to pool	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Staff Locker	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Locker Room	CT1	CT1	ECT/PT1	ECT/PT1	ECT/PT1	ECT/PT1	PT2	
Office	CPT1	RB2	PT5	PT5	PT5	PT5	EACT	
Hallway	VCT1	RB2	PT4	PT4	PT4	PT4	EACT	
FIRST FLOOR								
Office	ECPT	--	--	PT9	--	--	EACT	Provide paint on entry vestibule.Match adjacent
Desk	ECT	RB2	PT7/PT8	PT7/PT8	PT7/PT8	PT7/PT8	--	

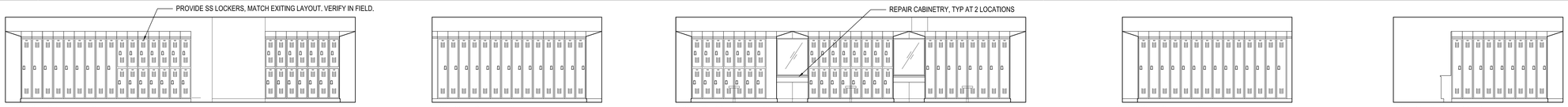
CT Ceramic Tile
CPT Carpet
RF Rubber Flooring
PT Paint
ACT Acoustic Ceiling
VCT Vinyl floor tile
RB Rubber base

ECT Existing Cermaic Tile
ECPT Existing Carpet
EPT Existing Paint
EACT Existing acoustic clg tile

MATERIALS SCHEDULE

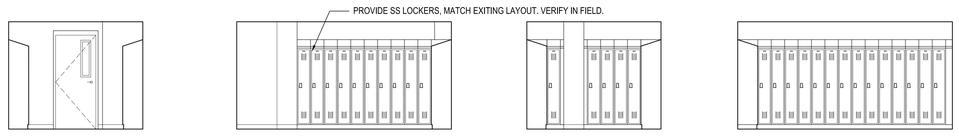
Ident	Material	Manufacture	Color	Finish	Remarks
CPT1	Carpet	Tandus	Rouse:te 04121	24x24 ER3 backing	Office
VCT1	Vinyl tile	Armstrong	57005 Stone Beige	slip retardant	Hallway
CT1	Cer Tile	Daltile	D200	2x2	Floor
CT2	Cer Tile	Daltile	D208	2x2	Accent
RB1	Rubber Base	Johnsonite	55 Silver Grey	--	Hallway
RB2	Rubber Base	Johnsonite	48 Grey	--	Office /Recept Desk
PT1	Paint	Sherwin Wm	7653 Silverpointe	Semi gloss	Walls in Locker Room
PT2	Paint	Sherwin Wm	7653 Silverpointe	Semi gloss	Ceiling in Locker Room
PT3	Paint	Sherwin Wm	7642 Pavestone	Gloss	Doors/Frames(inside locker rms)
PT4	Paint	Sherwin Wm	7656 Rhinestone	Semi gloss	Hallway walls
PT5	Paint	Sherwin Wm	7656 Rhinestone	Satin	Basement office
PT6	Paint	Sherwin Wm	7668 March Wind	Semi gloss	Doors/Frames(hall side and office)
PT7	Paint	Sherwin Wm	7653 Silverpointe	Satin	Reception Desk
PT8	Paint	Sherwin Wm	6243 Distance	Satin	Reception Desk
PT9	Paint	Sherwin Wm	Match adjacent	Satin	1st Floor Office
SSU	Solid Surfacing	Corian	Blue Spice		Reception Desk
GT	Groute	Ardex	Irish Crème/Sil Shim		

L14	FINISH SCHEDULE
1/4"=1'-0"	REF



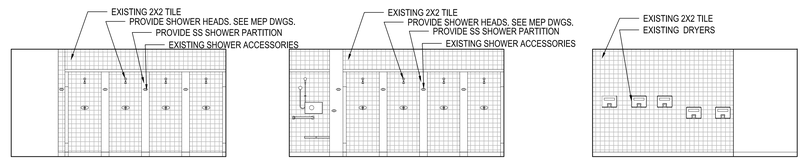
LOCKERS - NORTH ELEVATION | LOCKERS - EAST ELEVATION | LOCKERS - SOUTH ELEVATION | LOCKERS - WEST ELEVATION | LOCKERS - TYPICAL MIDDLE BAY

H1	LOCKER ROOM
1/4"=1'-0"	REF



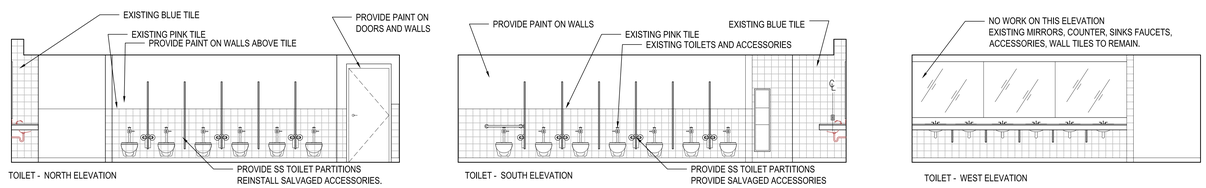
STAFF LOCKERS - NORTH ELEVATION | STAFF LOCKERS - EAST ELEVATION | STAFF LOCKERS - SOUTH ELEVATION | STAFF LOCKERS - WEST ELEVATION

E1	STAFF LOCKER ROOM
1/4"=1'-0"	REF



SHOWER - WEST ELEVATION | SHOWER - EAST ELEVATION | DRYER - SOUTH ELEVATION

E12	SHOWER
1/4"=1'-0"	REF



TOILET - NORTH ELEVATION | TOILET - SOUTH ELEVATION | TOILET - WEST ELEVATION

A1	TOILET ROOM
1/4"=1'-0"	REF

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QEA # 31508100
OWNER # 0000000000

WOMENS LOCKER ROOM PLANS & ELEVATIONS

PERMIT SET
12/09/2015

NO.	TITLE	DATE

FILE NAME:

A602

MECHANICAL GENERAL NOTES

GENERAL

1. THE INTENT OF THESE DRAWINGS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEMS. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS. CONTRACTOR IS OBLIGATED TO EXAMINE PLANS. ANY OBSERVED FAULTS OR AMBIGUITY IN THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY, SO THAT THE MATTER MAY BE RESOLVED PRIOR TO SUBMISSION OF BIDS. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THESE PLANS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED.
2. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE CODES AND REGULATIONS.
3. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO DEPICT THE GENERAL LOCATION OF HVAC SYSTEM COMPONENTS. CONSULT THE ARCHITECTURAL PLANS FOR PROPER DIMENSIONS AND LOCATION OF EQUIPMENT.
4. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HVAC WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE ARCHITECT SHALL BE ADVISED IMMEDIATELY, AND AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.
5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND ARRANGE FOR INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
6. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING AND DUCTWORK. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER. VERIFY SLAB PENETRATION LOCATIONS PRIOR TO PROCEEDING WITH WORK IN ORDER TO LOCATE OBSTRUCTIONS EMBEDDED IN SLAB. SUBMIT DRAWING OF ALL SLAB PENETRATIONS FOR LANDLORD/ARCHITECT/ENGINEER APPROVAL PRIOR TO PROCEEDING WITH WORK.
7. PROVIDE FIRE DAMPERS AT ALL PENETRATIONS INTO FIRE RATED STRUCTURE, SUCH AS FIRE RATED PARTITIONS, ETC. ALL FIRE DAMPERS SHALL BEAR THE U.L. LABEL.
8. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE BY THIS CONTRACTOR FOR BEAMS, COLUMNS OR OTHER OBSTRUCTIONS OF THE BUILDING OR THE WORK OF OTHER CONTRACTORS, WHETHER OR NOT SAME IS INDICATED. WHERE NECESSARY TO AVOID OBSTRUCTIONS THE DUCTS SHALL BE TRANSFORMED, DIVIDED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED WHILE MAINTAINING DESIGNED CEILING HEIGHTS.
9. PROVIDE FLEXIBLE DUCT CONNECTIONS WHEREVER DUCTWORK CONNECTS TO VIBRATING EQUIPMENT. CONSTRUCT FLEXIBLE CONNECTIONS OF NEOPRENE-COATED FLAMEPROOF FABRIC CRIMPED INTO DUCT FLANGES FOR ATTACHMENT TO DUCT AND EQUIPMENT. MAKE AIRTIGHT JOINT. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR THERMAL, AXIAL, TRANSVERSE, AND TORSIONAL MOVEMENT, AND ALSO CAPABLE OF ABSORBING VIBRATIONS OF CONNECTED EQUIPMENT.
   - A. PROVIDE FLEXIBLE CONNECTORS AT THE INLET AND OUTLET CONNECTION FOR EACH FAN AND AIR HANDLING UNIT.
   - B. EACH FLEXIBLE CONNECTOR SHALL ALLOW 1" OF FREE MOVEMENT AND SHALL BE COMPLETELY AIR TIGHT.
   - C. PROVIDE NEOPRENE COATED GLASS FABRIC MATERIAL, MINIMUM 30 OZ. PER SQUARE YARD.
   - D. CONTRACTOR SHALL BRACE DUCTWORK (AS REQUIRED) AT ALL FLEXIBLE CONNECTORS TO ENSURE THAT DUCTWORK IS KEPT IN ALIGNMENT.
10. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
11. CONTROLS: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY WIRING, TRANSFORMERS, CONTROLS, HARDWARE, FITTINGS, PARTS AND ACCESSORIES INCLUDING ALL SAFETY DEVICES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF SYSTEM IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS. THE CONTROLS CONTRACTOR SHALL PROVIDE ELECTRICAL POWER TO ALL CONTROL DEVICES AND EQUIPMENT FROM THE NEAREST POWER SOURCE INDICATED FOR CONTROLS POWER AND IDENTIFIED ON ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL VOLTAGE AND POWER REQUIREMENTS AND COORDINATE WITH ALL TRADES AS REQUIRED. CONTROLS SUCH AS THERMOSTATS/SENSORS OF AHUS, FCUS, UNIT HEATERS, VAV BOXES, DUCT REHEAT COILS, ETC., SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND INSTALLED/WIRED BY THIS CONTRACTOR UNLESS OTHERWISE INDICATED. FOR DDC APPLICATION THESE DEVISES SHALL BE DDC READY. INTERLOCK AND CONDITIONAL OPERATION OF SYSTEMS (FANS, MOTORS, ETC.), SHALL BE PROVIDED/INSTALLED BY THE CONTRACTOR VIA CURRENT RELAYS ON THE MOTOR STARTER AND LOW VOLTAGE CONTROL WIRING. PROVIDE 24VOLT TRANSFORMER, SWITCHES, THERMOSTATS (IF THERMOSTATIC CONTROL IS REQUIRED) AND WIRING FOR A COMPLETE INSTALLATION THAT MEETS THE DESIGN INTENT OF THE SYSTEM OPERATION.
12. PROVIDE MOTOR STARTERS, ELECTRICAL DISCONNECTS, TRANSFORMERS, CONTROL WIRING AND ALL OTHER REQUIRED ACCESSORIES NECESSARY FOR AUTOMATIC OPERATION OF MECHANICAL EQUIPMENT.
13. THERMOSTAT SHALL BE INSTALLED ON THE WALL 48" ABOVE FINISHED FLOOR WHERE SHOWN ON THE FLOOR PLANS, COORDINATE W/ ARCHITECT.
14. MECHANICAL CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY. MECHANICAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH AFTER WORK COMPLETION.
15. WHERE EXISTING FIELD CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF DISCREPANCIES WHICH WILL AFFECT THE PROPOSED WORK PRIOR TO BEGINNING WORK.
16. SYMBOLS SHOWN ON SCHEDULES DEFINE TYPE OF EQUIPMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR RESEARCHING DRAWINGS FOR EXACT QUANTITIES REQUIRED OF EACH TYPE.
17. PRIOR TO INSTALLATION OF NEW WORK, CONTRACTOR SHALL VERIFY THAT ALL DUCTWORK, EQUIPMENT, PIPING, ETC., SHALL BE FREE FROM INTERFERENCE WITH EXISTING CONDITIONS. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER. WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER, OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR ALLOWS ONE TRADE TO INSTALL HIS WORK BEFORE COORDINATING WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL MAKE NECESSARY CHANGES TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
18. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, DRAIN POINTS, ETC. IF REQUIRED FOR ACCESSIBILITY, FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY.
19. ALL EQUIPMENT WHICH REQUIRES INTERFACE WITH THE ELECTRICAL TRADE, SUCH AS CONTROLLING DEVICES, DISCONNECT SWITCHES, MOTORS, ETC., SHALL BE FULLY COORDINATED BETWEEN ALL TRADES.
20. LOCATION OF SWITCHES FOR EXHAUST FANS SHALL BE COORDINATED WITH LIGHT SWITCHES AND THERMOSTATS AND ALL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT. BATHROOM EXHAUST FAN SWITCHES SHALL BE INTERLOCKED WITH BATHROOM LIGHT SWITCHES.
21. ALL WORK TO BE GUARANTEED FOR TWO YEAR AGAINST LABOR AND MATERIALS. ANY DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ALL TRADES RESULTING FROM SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF THE GUARANTEE PERIOD. TIME FOR THIS GUARANTEE SHALL BEGIN FROM THE DATE OF ACCEPTANCE OF THE COMPLETE WORK BY THE OWNER OR HIS APPOINTED REPRESENTATIVE. NOTE: THESE GUARANTEES SHALL BE SUBMITTED TO THE TENANT AND/OR BUILDING OWNER FOR RECORD PURPOSES.
22. AS USED IN DRAWINGS AND SPECIFICATIONS FOR MECHANICAL WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITION OR OTHER DOCUMENTS GOVERNING THE MECHANICAL WORK.

    "FURNISH" – PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK. PURCHASING SHALL INCLUDE PAYMENT OF ALL SALES TAXES AND OTHER SURCHARGES AS MAY BE REQUIRED TO ASSURE THAT PURCHASED ITEMS ARE FREE OF ALL LIENS, CLAIMS OR ENCUMBRANCES.

    "INSTALL" – UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.

    "PROVIDE" – "FURNISH" AND "INSTALL".

    "NEW" – MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
23. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS, PNEUMATIC DUCTS AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL HAVE THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS BY ASTM E814 OR NFPA 251 FOR FIRE RATING.
24. ALL MATERIAL, EQUIPMENT AND ACCESSORIES, FURNISHED AND INSTALLED SHALL BE NEW AND EQUAL TO OR SURPASS THE QUALITY OF SIMILAR MATERIALS AS SCHEDULED. ALL MATERIALS, EQUIPMENT AND METHODS SHALL BE AS SPECIFIED IN THE BASE BUILDING CONTRACT DOCUMENTS UNLESS NOTED OTHERWISE.
25. IN ACADEMIC AREAS, PROVIDE 5'-0" OF 1" ACOUSTIC DUCT LINING AT DISCHARGE SIDE OF VRV UNITS.
26. DUCTWORK DIMENSIONS ON PLANS INDICATE INTERNAL FREE AREA AND NOT SHEET METAL DIMENSIONS. CONTRACTOR SHALL INCREASE THE SHEET METAL DIMENSIONS AS NEEDED TO ACCOMMODATE INTERNAL DUCT LINER WITHOUT REDUCING THE DUCT FREE AREA DIMENSIONS AS SHOWN ON THE PLANS.

DEMOLITION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCLUSION OF ALL REQUIRED DEMOLITION IN AREAS UNDERGOING MODIFICATION WHETHER OR NOT SUCH WORK IS INDICATED ON THE CONTRACT DOCUMENTS. ANY DISCOVERED DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL SITE CONDITIONS MAY BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO BID FOR CLARIFICATION. AFTER A CONTRACT IS EXECUTED CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION.
2. THE REQUIRED DEMOLITION SHALL NOT BE LIMITED TO THAT PORTION SHOWN ON THE PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK COINCIDENTAL THERETO AND/OR WORK INDICATED ELSEWHERE ON THE DRAWINGS OR IN THE SPECIFICATIONS.
3. CONTRACTOR SHALL NOT VIOLATE THE PHYSICAL SECURITY OF THE BUILDING DURING DEMOLITION OR ASSOCIATED OPERATIONS. SECURITY SHALL BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SCHEDULE ALL WORK, INCLUDING INTERRUPTION OF EXISTING UTILITIES, WITH THE OWNER, PRIOR TO STARTING WORK. CONTRACTOR SHALL NOTE THAT THE BUILDING SHALL BE OCCUPIED AND IN USE DURING THE PERIOD OF TIME THIS CONTRACT IS BEING PERFORMED.
5. DEMOLITION SHALL GENERALLY BE ARRANGED TO AGREE WITH THE ACCOMPLISHMENT OF WORK UNDER THE VARIOUS PHASES AND IN COORDINATION WITH THE REQUIRED MODIFICATIONS.
6. DO NOT ALTER THE EXISTING SYSTEMS WHICH ARE LOCATED IN AREAS NOT IN SCOPE OF WORK UNLESS SPECIFICALLY INDICATED. PROTECT EXISTING SYSTEMS WITHIN THE LIMITS OF WORK WHICH ARE TO BE RETAINED. ANY DAMAGE TO THE EXISTING SYSTEMS DUE TO CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO ITS ORIGINAL CONDITION TO THE COMPLETE SATISFACTION OF THE OWNER, AND AT NO COST TO THE OWNER.
7. UNLESS OTHERWISE NOTED, ALL FIXTURES/EQUIPMENT INDICATED TO BE REMOVED SHALL ALSO HAVE ALL ASSOCIATED PIPING REMOVED BACK TO THE NEAREST HORIZONTAL MAIN, RISER, OR STACK CONNECTION AND CAPPED IN A CONCEALED LOCATION.
8. UNLESS OTHERWISE INDICATED, EXISTING PIPING TO REMAIN FOLLOWING REMOVAL OF ADJACENT PORTIONS OF PIPING SHALL BE CAPPED/PLUGGED IN A CONCEALED LOCATION OR MADE READY FOR EXTENSION UNDER NEW WORK. FOR AREAS WITHOUT AN EXISTING CEILING IN WHICH A NEW CEILING WILL NOT BE INSTALLED, THE PIPING SHALL BE CAPPED/PLUGGED IN A LOCATION TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM. UNDER NO CIRCUMSTANCE MAY AN EXISTING PIPE BE LEFT OPEN.
9. UNLESS OTHERWISE INDICATED, ALL FIXTURES, EQUIPMENT, PIPING, AND ACCESSORIES WHICH HAVE TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AS SOON AS POSSIBLE.
10. "CONCEALED LOCATION" IS DEFINED AS BEING ABOVE FINISHED CEILING, BELOW FINISHED FLOOR, OR WITHIN FINISHED WALL OR PARTITION. SEE ARCHITECTURAL PLANS FOR FINISH INFORMATION.
11. COPPER AND STEEL PIPING SHALL BE CAPPED USING COMMERCIALLY MANUFACTURED "CAPS". CAST IRON SOIL PIPE SHALL BE PLUGGED USING COMMERCIALLY MANUFACTURED "BLIND PLUGS". CAP/PLUG INSTALLATION SHALL BE IN ACCORDANCE WITH NEW WORK INSTALLATION PROCEDURES. CRIMPING OF TUBING IS NOT ACCEPTABLE.
12. ALL EXISTING TO REMAIN PIPING SHALL BE COORDINATED WITH THE MECHANICAL DUCTWORK, AND IF REQUIRED PIPING SHALL BE REMOVED AND RELOCATED TO BETTER LOCATION.

SYMBOLS

EXISTING/NEW WORK

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- LIMIT OF DEMOLITION
- NEW WORK
- POINT OF CONNECTION NEW TO EXISTING

EQUIPMENT

- PUMP
- RETURN/EXHAUST GRILLE
- SUPPLY DIFFUSER
- VAV TERMINAL UNIT – COOLING ONLY
- FPT TERMINAL UNIT WITH REHEAT
- VAV TERMINAL UNIT WITH REHEAT COIL

GENERAL DUCTWORK

Symbol	Description
Ø	DIAMETER OF ROUND DUCT
	RECTANGULAR DUCT BREAK (DOUBLE LINE)
	DUCT BREAK (SINGLE LINE)
	RECTANGULAR EXHAUST DOWN
	RECTANGULAR EXHAUST UP
	RECTANGULAR RETURN DOWN
	RECTANGULAR RETURN UP
	RECTANGULAR SUPPLY DOWN
	RECTANGULAR SUPPLY UP
	ROUND DUCT BREAK (DOUBLE LINE)
	ROUND EXHAUST/RETURN/SUPPLY DOWN
	ROUND EXHAUST/RETURN/SUPPLY UP

DUCTWORK ACCESSORIES

Symbol	Description
BDD	BACKDRAFT DAMPER
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
M	MOTORIZED DAMPER
SD	SMOKE DAMPER
	VOLUME DAMPER

GENERAL PIPING

Symbol	Description
	AUTOMATIC AIR VENT
	DIRECTION OF PIPE PITCH
FD	FLOOR DRAIN
	FLOW DIRECTION
	MANUAL AIR VENT
	PIPE CONTINUES
BFW	BOILER FEEDWATER
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	CITY WATER
D	DRAIN
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
PCR	PUMPED CONDENSATE RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION

PIPE FITTINGS/CONNECTIONS

- FLANGE CONNECTION
- FLEXIBLE CONNECTOR
- PIPE CONNECTION – BOTTOM
- PIPE CONNECTION – TOP
- PIPE DOWN
- PIPE END CAP
- PIPE REDUCER – CONCENTRIC
- PIPE REDUCER – ECCENTRIC
- PIPE UP
- UNION CONNECTION

PIPING VALVES

- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- SHUT-OFF VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- SOLENOID VALVE
- VALVE IN RISER
- Y STRAINER
- Y STRAINER (WITH VALVE)
- 2-WAY AUTOMATIC CONTROL VALVE
- 3-WAY AUTOMATIC CONTROL VALVE

PIPING INSTRUMENTATION

- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER

STEAM PIPING

- MOISTURE SEPARATOR
- PRESSURE GAUGE WITH SIPHON
- STEAM TRAP ASSEMBLY

CONTROLS

Symbol	Description
CO_2	CARBON DIOXIDE SENSOR (MOUNT 48" AFF)
CO	CARBON MONOXIDE SENSOR
H	HUMIDISTAT (MOUNT 48" AFF)
T	THERMOSTAT (MOUNT 48" AFF)
SD	SMOKE DETECTOR

REFERENCE

- DETAIL
- RISER
- SECTION

ABBREVIATIONS

Abbreviation	Meaning
AABC	ASSOCIATED AIR BALANCE COUNCIL
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACT	ACOUSTICAL CEILING TILE
AD	ACCESS DOOR
ADDT'L	ADDITIONAL
ADJ	ADJUST
AFC	ABOVE FINISHED CEILING
AFCP	AIR FLOW CONTROL PANEL
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AMT	AMOUNT
APD	AIR PRESSURE DROP
ARCH	ARCHITECT
ARI	AMERICAN REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATU	AIR TERMINAL UNIT
AUTO	AUTOMATIC
B	BOILER
BAL	BALANCE/ING
BCU	BUILDING CONTROL UNIT
BHP	BOILER HORSEPOWER/BRAKE HORSEPOWER
BOP	BOTTOM OF PIPE
BLDG	BUILDING
BLW	BELOW
BOS	BOTTOM OF STEEL
BPD	BACK PRESSURE DAMPER
BS	BRANCH SELECTOR
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CAD	CEILING AIR DIFFUSER
CAL	COMBUSTION AIR LOUVER
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CF	CENTRIFUGAL FAN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
COND	CONDITIONING
CONN	CONNECT/CONNECTION
CONT	CONTINUATION
CP	CIRCULATING PUMP
CSR	CEILING SUPPLY REGISTER
CU	CONDENSING UNIT
CV	CONTROL VALVE
CW	COLD WATER
DB	DRY BULB
dB	DECIBEL
DDC	DIRECT DIGITAL CONTROL
ΔP	PRESSURE DROP
DIA	DIAMETER
DIFF	DIFFERENCE
DISC SW	DISCONNECT SWITCH
DN	DOWN
DP	DEW POINT
DTL	DETAIL
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR/EACH
EAL	EXHAUST AIR LOUVER
EAR	EXHAUST AIR REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECON	ECONOMIZER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
ELL	ELBOW
ENT	ENTERING
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATED
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMP
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FM	FACTORY MUTUAL
FPM	FEET PER MINUTE
FT	FEET
FT WG	FEET OF WATER GAUGE
GAGAUGE	
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HEIGHT
HD	HEAD
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HZ	HERTZ
IN	INCHES
INSUL	INSULATE/INSULATION
IWG	INCHES WATER GAUGE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LBG	LINEAR BAR GRILLE
LB/HR	POUNDS PER HOUR
LRA	LOCKED ROTOR AMP
LWT	LEAVING WATER TEMPERATURE
M	MOTORIZED DAMPER
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MANUAL DAMPER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFGR	MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
MUAU	MAKE-UP AIR UNIT
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED/NOISE CRITERIA
NEC	NATIONAL ELECTRICAL CODE
NG	NATURAL GAS
NO	NUMBER/NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAL	OUTSIDE AIR LOUVER
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
OF	OVERFLOW
OPP	OPPOSITE
ORIG	ORIGINAL
O&M	OPERATION AND MAINTENANCE
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PDCV	PRESSURE DIFFERENTIAL CONTROL VALVE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PPH	POUNDS PER HOUR
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
REF	REFER/REFERENCE
REG	REGISTER
RF	RETURN/RELIEF FAN
RLA	RATED LOAD AMP
RLAD	RETURN LINEAR AIR DIFFUSER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
SAR	SUPPLY AIR REGISTER
SC	SHADING COEFFICIENT
SD	SMOKE DAMPER/SPLITTER DAMPER
SDC	SOUND DIGITAL CONTROLLER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SIM	SIMILIAR
SLAD	SLOT LINEAR AIR DIFFUSER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SO	SCREENED OPENING
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
SRV	STEAM RELIEF VENT
SS	STAINLESS STEEL
STL	STEEL
STN	SECTION
SUSP	SUSPENSION
SWR	SIDE WALL REGISTER
SYM	SYMBOL
T	THERMOSTAT
TCC	TEMPERATURE CONTROL CONTRACTOR
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TOS	TOP OF STEEL
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANE
TXV	THERMAL EXPANSION VALVE
TYP	TYPICAL
U	UNDERCUT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNOCC	UNOCCUPIED
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VDR	VANED RETURN REGISTER
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WATT
W/	WITH
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
W/O	WITHOUT

SHEET NUMBERING LEGEND

M-111A

- DISCIPLINE: "MD" DEMO, "M" NEW WORK
- SECTOR
- PLAN TYPE: "1" FLOOR PLAN, "2" ENLARGED FLOOR ETC.
- SYSTEM TYPE: "1" FOR DUCT WORK, "2" FOR PIPING
- FLOOR LEVEL: "0" LOWEST FLOOR, "1" NEXT FLOOR LEVEL ETC.

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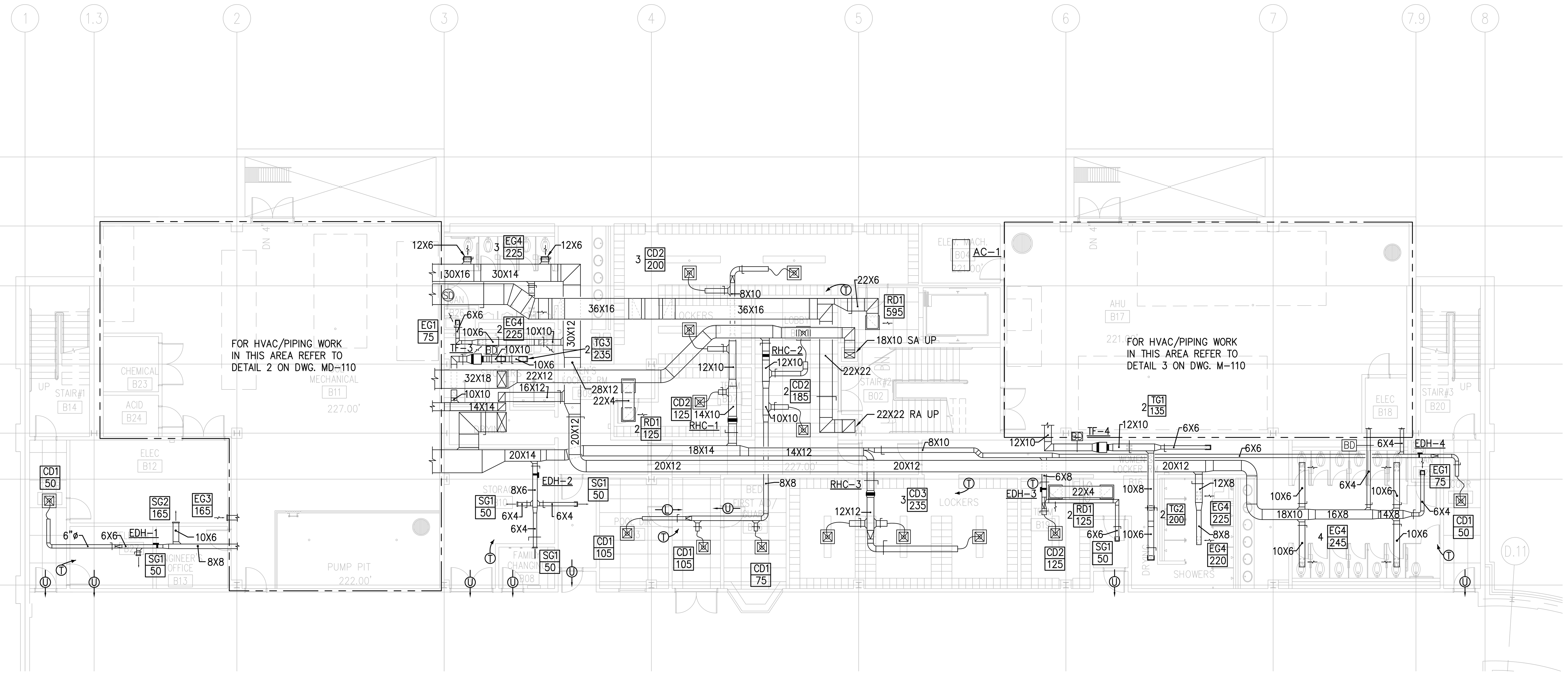
MECHANICAL COVER SHEET

PERMIT SET
12/09/2015

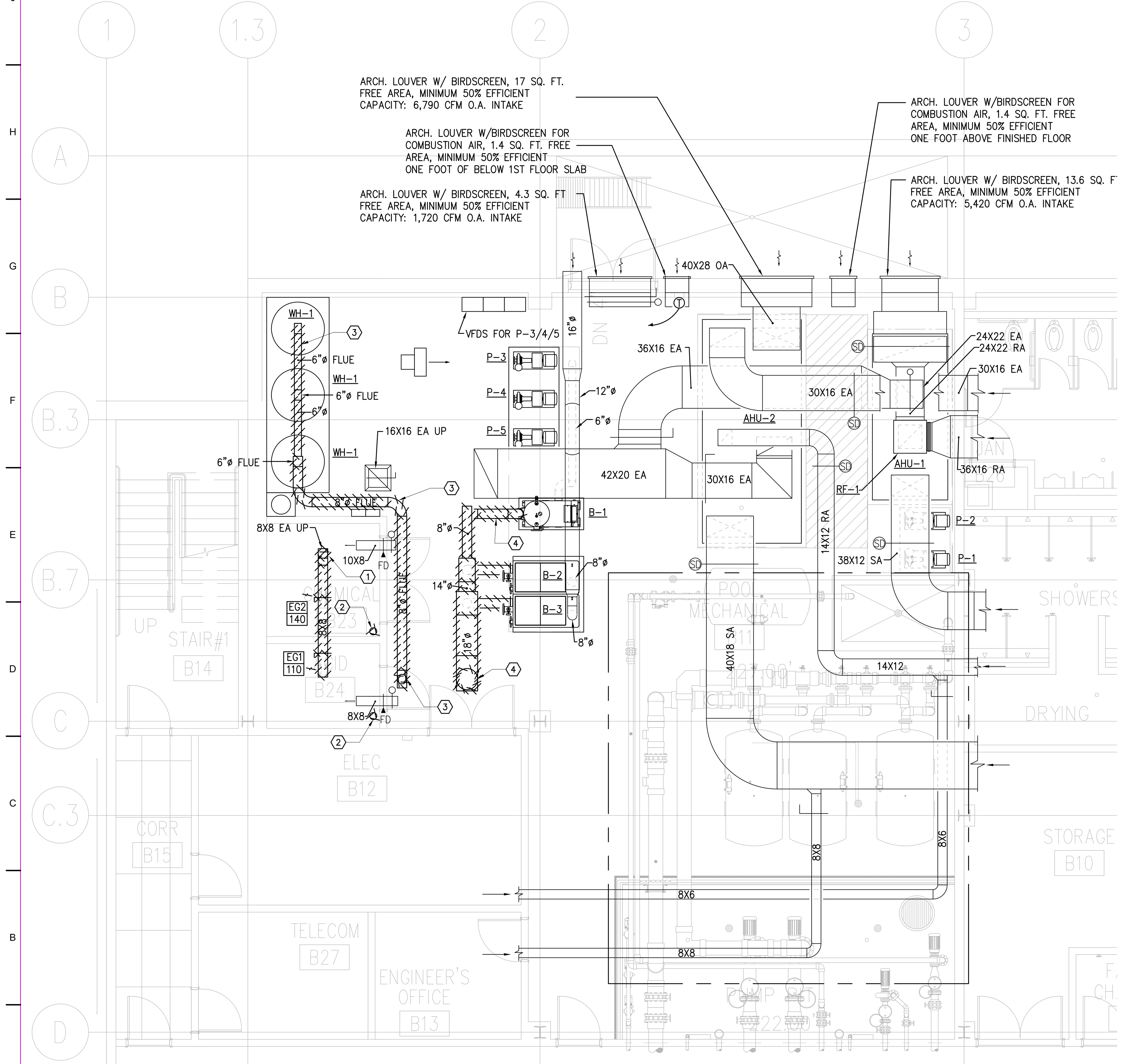
REVISIONS

NO.	DESCRIPTION	DATE

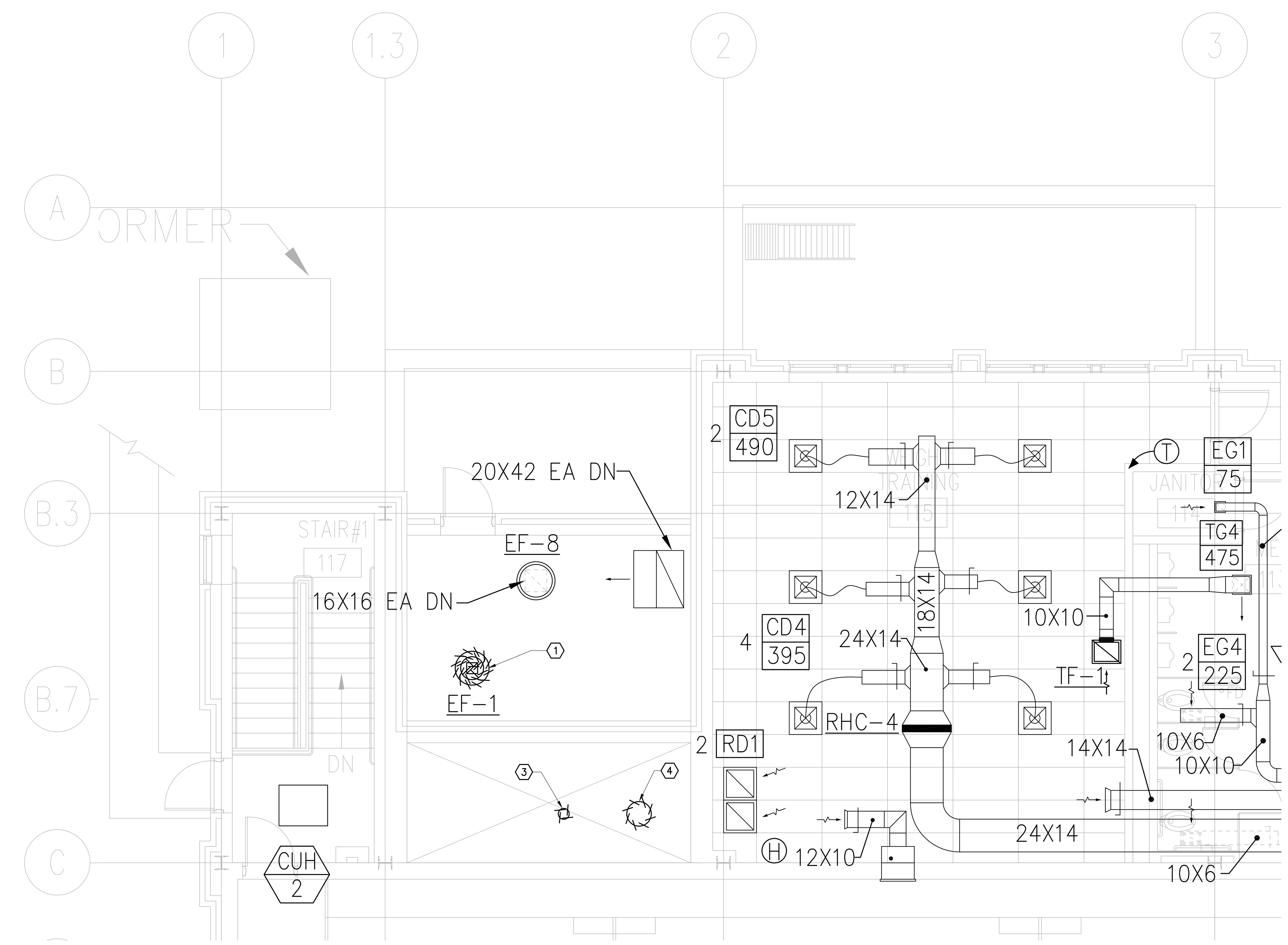
M001



1 MECHANICAL - BASEMENT - DUCTWORK - DEMO
SCALE: 1/8"=1'-0"



2 MECHANICAL - BASEMENT - DUCTWORK - DEMO
SCALE: 1/4"=1'-0"



3 MECHANICAL - GROUND FLOOR - DUCTWORK - DEMO
SCALE: 1/4"=1'-0"

GENERAL NOTES

1. REFER TO M-001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
3. ALL EQUIPMENT SHALL BE INSTALLED AT MINIMUM 10'-0" FROM ROOF EDGES.

SPECIFIC NOTES

1. DISCONNECT AND REMOVE EXHAUST FAN EF-1 AND ALL ASSOCIATED DUCTWORK, DAMPERS, GRILLES, AND SUPPORTS.
2. DISCONNECT AND REMOVE EXISTING FLOOR MOUNTED EXHAUST FANS AND ALL ASSOCIATED DUCTWORK, GRILLES, AND PVC PIPING. FANS ARE FLOOR MOUNTED.
3. DISCONNECT AND REMOVE EXISTING BOILER FLUE DUCTING. DISCONNECT EXISTING EXHAUSTO FAN ON TOP OF THE BOILER STACK. RETAIN FAN FOR REINSTALLATION UNDER THE NEW WORK PLAN. BOILER FLUE DUCTING IS TO BE REPLACED IN KIND. VERIFY BOILER FLUE DUCT SIZES IN FIELD PRIOR TO DEMOLITION.
4. DISCONNECT AND REMOVE EXISTING BOILER FLUE DUCTING. BOILER FLUE DUCTING IS TO BE REPLACED IN KIND. VERIFY BOILER FLUE DUCT SIZES IN FIELD PRIOR TO DEMOLITION.

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MECHANICAL - DUCTWORK - DEMO

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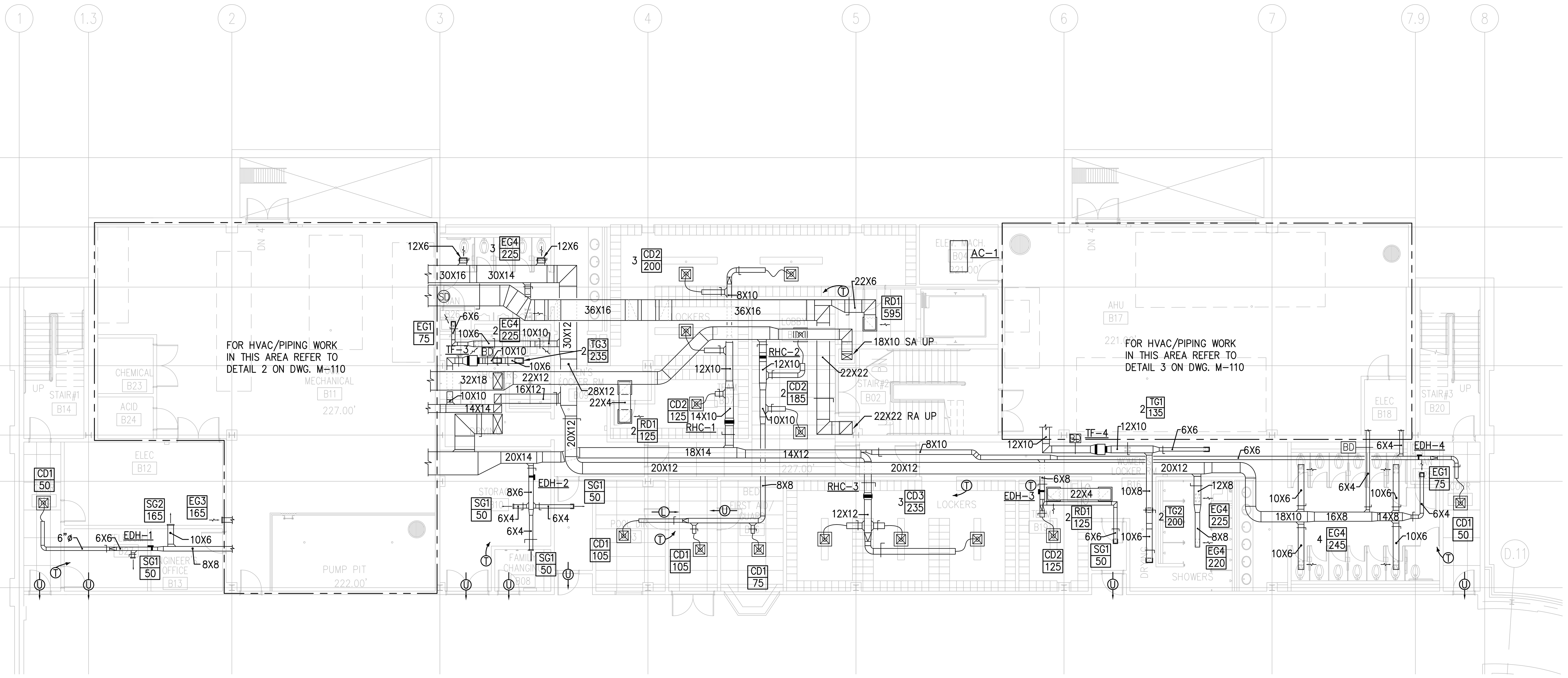
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

MD110



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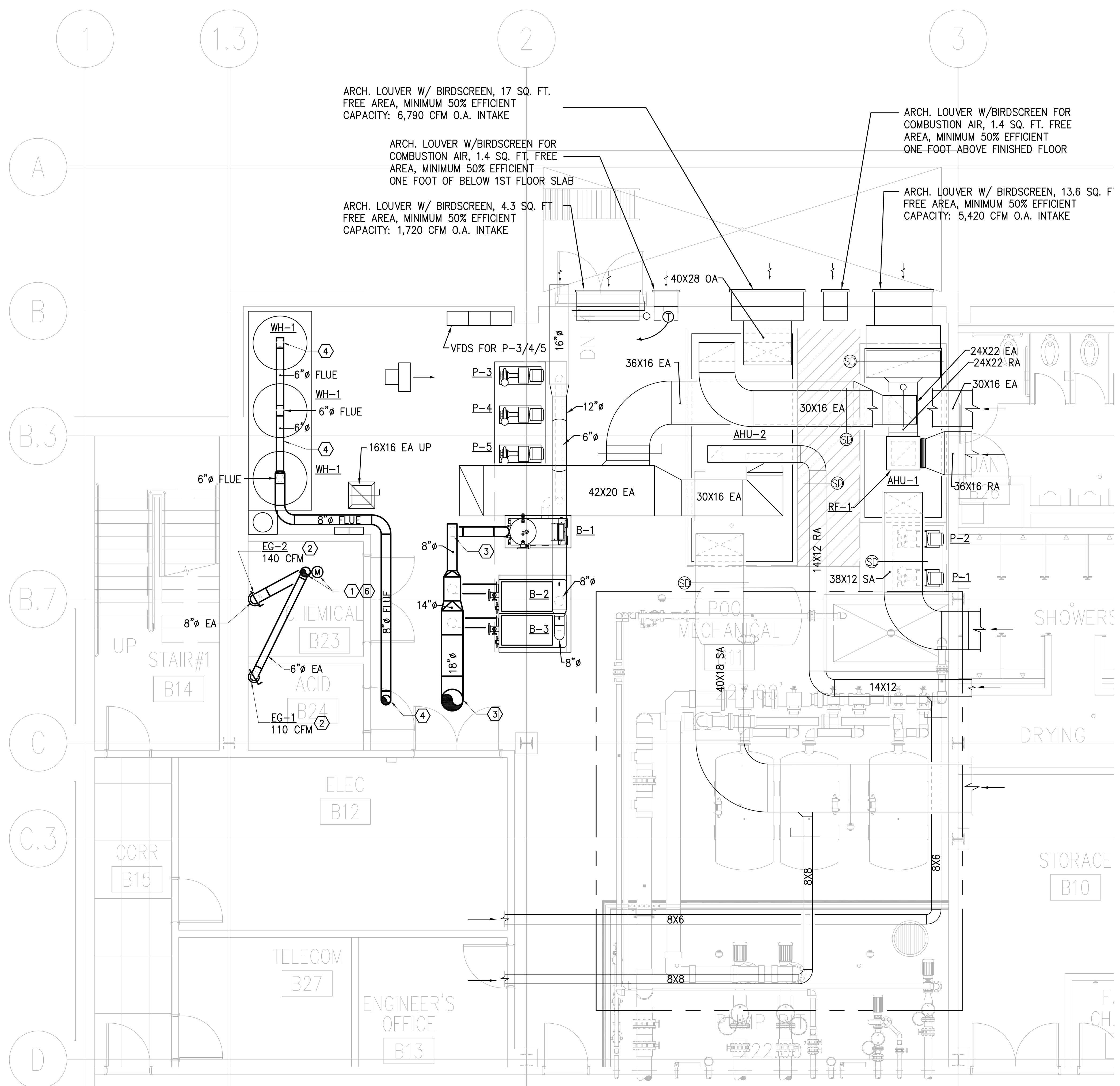
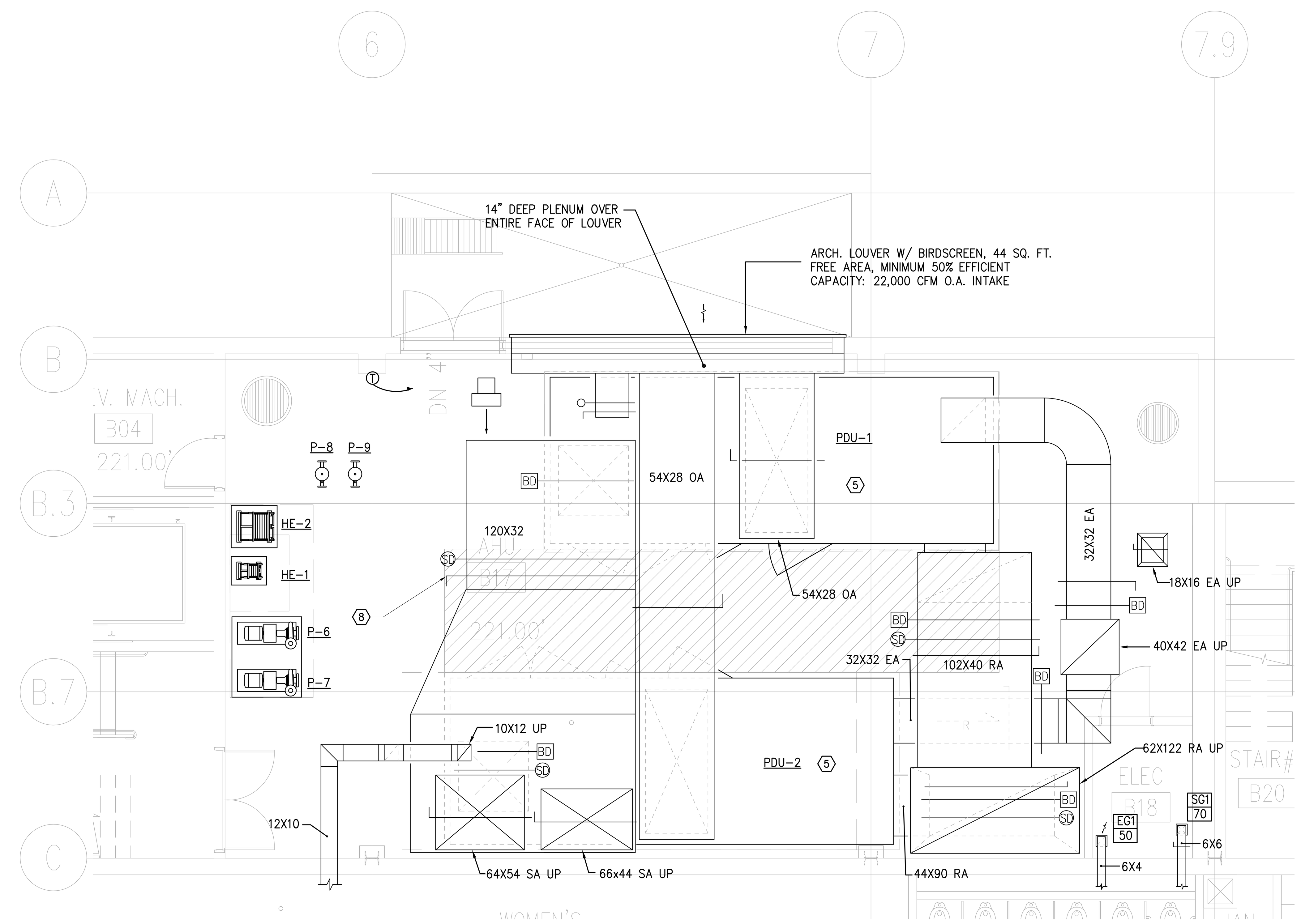
SCALE: 1/8"=1'-0"



2 MECHANICAL - BASEMENT - DUCTWORK - NEW WORK
SCALE: 1/4"=1'-0"



3 MECHANICAL - BASEMENT - DUCTWORK - NEW WORK
SCALE: 1/4"=1'-0"

GENERAL NOTES

1. REFER TO M-001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
3. ALL EQUIPMENT SHALL BE INSTALLED AT MINIMUM 10'-0" FROM ROOF EDGES.
4. AIRFLOWS ARE BASED ON EXISTING DRAWINGS. BALANCE AIRFLOWS ACCORDINGLY.

SPECIFIC NOTES

1. 8" CHEMICAL ROOM EXHAUST UP THROUGH ROOF. PROVIDE MOTORIZED DAMPER JUST BELOW ROOF PENETRATION. DAMPER TO BE ENERGIZED.
2. TERMINATE DUCT 12" AFF (MAXIMUM). INSTALL EXHAUST GRILLE ON END OF DUCT.
3. PROVIDE NEW BOILER FLUE FROM BOILER THROUGH ROOF. BOILER FLUE IS TO BE REPLACE-IN-KIND. SEAL ROOF PENETRATION OF NEW FLUE.
4. PROVIDE NEW BOILER FLUE FROM BOILER THROUGH ROOF. BOILER FLUE IS TO BE REPLACE-IN-KIND. REINSTALL EXISTING EXHAUSTO FAN AT TOP OF VENT STACK. SEAL ROOF PENETRATION OF NEW FLEW.
5. TEST, ADJUST, AND BALANCE EXISTING POOL DEHUMIDIFICATION UNIT.
6. INTERLOCK DAMPER WITH EXHAUST FAN EX-1. DAMPER TO BE CLOSED WHEN EX-1 IS DE-ENERGIZED. DAMPER TO OPEN PRIOR TO EX-1 BEING ENERGIZED.

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MECHANICAL - BASEMENT - DUCTWORK - NEW WORK

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

M110

GENERAL NOTES

1. REFER TO M0001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
3. TEST, ADJUST, AND BALANCE THE EXISTING POOL DEHUMIDIFICATION UNITS AND ASSOCIATED AIR DISTRIBUTION SYSTEM.

SPECIFIC NOTES

1. PROVIDE NEW BOILER FLUE THROUGH ROOF. COILER FLUE IS TO BE REPLACED-IN-KIND. REINSTALL EXISTING EXHAUSTO FAN AT TOP OF VENT STACK. SEAL ROOF PENETRATION OF NEW FLUE.
2. INSTALLATION LOCATION FOR FAN CONTROLLERS AND PIVOT FUNCTION SWITCHES FOR FANS CF-A1 THROUGH CF-A6. PROVIDE WITH LOCKABLE ENCLOSURE THAT IS VENTILATED ON TOP AND BOTTOM. NOTE THAT LINE OF SIGHT IS NOT POSSIBLE FOR THESE CONTROLLERS. PROVIDE DISCONNECTS FOR ALL POWER CONNECTIONS TO EACH FAN (2 CONNECTIONS PER FAN) AT THE FAN INSTALLATION LOCATION.
3. PROVIDE NEW THERMOSTAT FOR CONTROL OF REHEAT COIL RHC-5. THERMOSTATIC CONTROL OF RHC-5 IS TO BE MODULATED BETWEEN THE EXISTING THERMOSTAT IN OFFICE 104 AND NEW THERMOSTAT BY A MANUAL SWITCH LOCATED IN OFFICE 103. PROVIDE WALL SWITCH, CONTROLS WIRING, AND ALL DDC HARWARE REQUIRED TO PERFORM THIS CHANGEOVER. THE INTENT IS TO IMPROVE TEMPERATURE CONTROL OF THE ENTRY LOBBY/CONCESSIONS AREA DURING MAJOR EVENTS. NEW THERMOSTAT SHALL BE THE SAME MAKE AND MODEL NUMBER AS THE EXISTING THERMOSTAT.
4. PROVIDE LOCAL ELECTRICAL DISCONNECTS FOR FAN MOTOR AND OSCILLATOR.
5. PROVIDE NEW BOILER FLUE THOUGH ROOF. BOILER FLUE IS TO BE REPLACED-IN-KIND. SEAL ROOF PENETRATION OF NEW FLUE.
6. SEE DRAWING M-301 FOR VERTICAL INSTALLATION LOCATION OF CF-AX FANS.
7. NEW EXHAUST FAN EF-1. CONNECT TO EXISTING CONTROLS FOR DEMOLISHED EF-1. PROVIDE NEW CURB AND SEALS FOR DUCT PENETRATION OF ROOF. PROVIDE SUPPORT CURB FOR FAN.

1 **MECHANICAL - FIRST FLOOR - DUCTWORK - NEW WORK**
SCALE: 1/8" = 1'-0"

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MECHANICAL - FIRST FLOOR - DUCTWORK - NEW WORK

DISTRICT OF COLUMBIA — 107982 — PROFESSIONAL ENGINEER

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

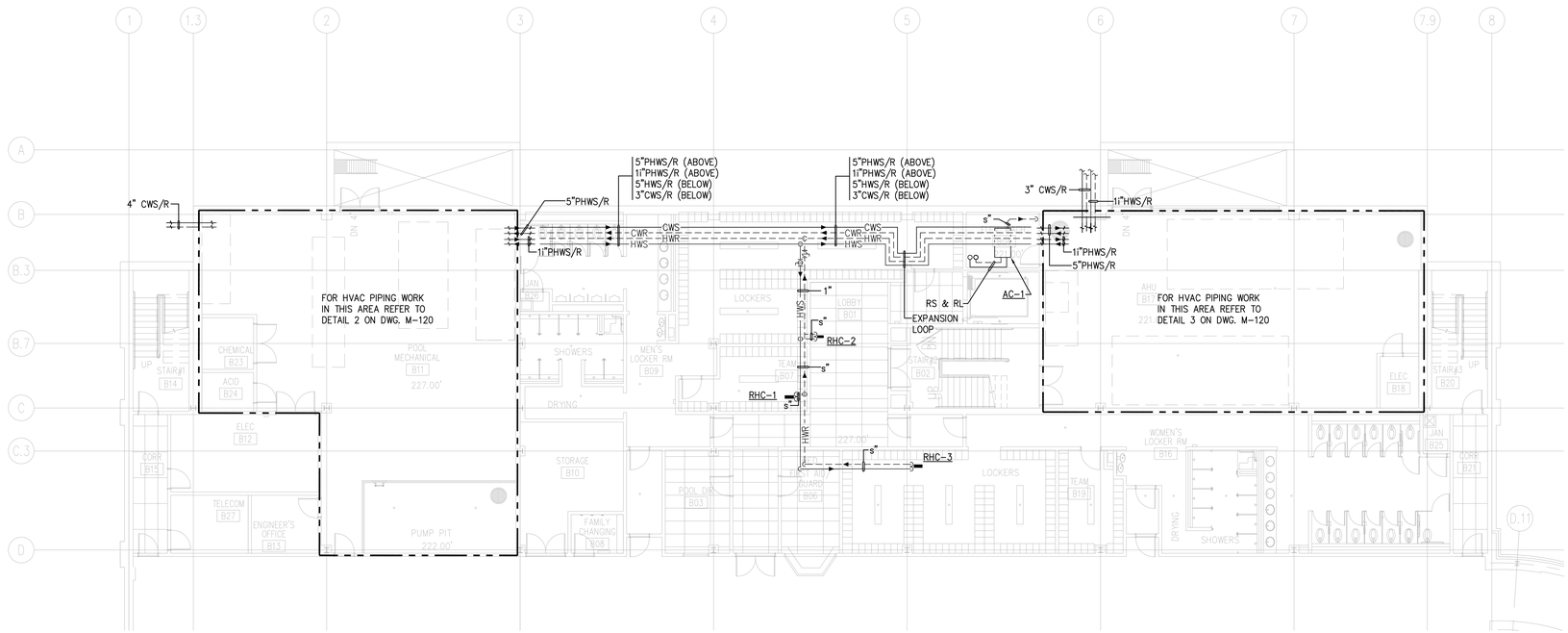
M111

GENERAL NOTES

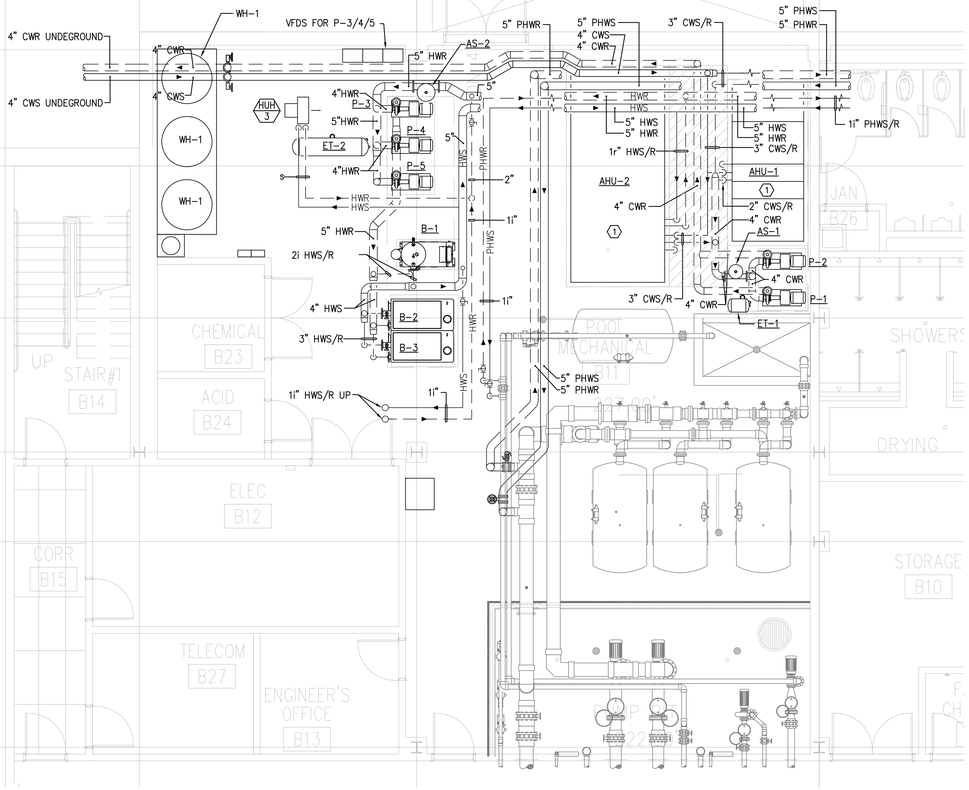
1. REFER TO M-001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
3. ALL EQUIPMENT SHALL BE INSTALLED AT MINIMUM 10'-0" FROM ROOF EDGES.

SPECIFIC NOTES

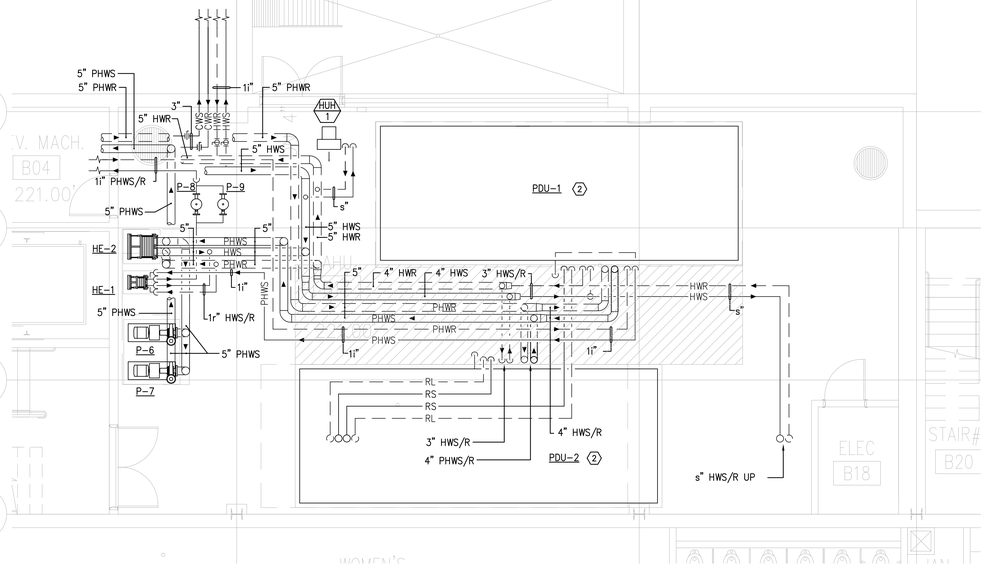
1. REPLACE EXISTING VALVE ACTUATORS FOR AHU-1 AND AHU-2 IN KIND. VALVE ACTUATORS TO BE REPLACED INCLUDE CHILLED WATER VALVES FOR AHU-1 AND CHILLED AND HOT WATER VALVES FOR AHU-2. REPLACE WITH SAME MAKE AND MODEL NUMBER AS VALVE ACTUATOR BEING DEMOLISHED.
2. TEST, ADJUST, AND BALANCE THE EXISTING POOL DEHUMIDIFICATION UNITS.



1 **MECHANICAL - BASEMENT - PIPING - NEW WORK**
SCALE: 1/8"=1'-0"



2 **MECHANICAL - BASEMENT - PIPING - NEW WORK**
SCALE: 1/8"=1'-0"



3 **MECHANICAL - BASEMENT - PIPING - NEW WORK**
SCALE: 1/8"=1'-0"

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MECHANICAL - BASEMENT - PIPING - NEW WORK

DISTRICT OF COLUMBIA · WASHINGTON, D.C. · REGISTERED PROFESSIONAL ENGINEER

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NO.	DESCRIPTION	DATE

M120

EXISTING POOL DEHUMIDIFICATION UNIT

ID NO.	LOCATION	AREA SERVED	AIF FLOW (CFM)			SUPPLY FAN DATA								RUN AROUND HEAT RECOVERY COIL														DX COOLING/DEHUMIDIFICATION EVAPORATOR COIL											HOT GAS REHEAT COIL						
									ELECTRICAL DATA				OUTSIDE AIR SIDE							EXHAUST SIDE							AIR SIDE											AIR SIDE						
															COOLING				HEATING				COOLING		HEATING					E.A.T. (°F)		L.A.T. (°F)											
			SUPPLY AIR	RETURN AIR	MINIMUM OUTSIDE AIR	ESP (IWG)	TYPE	RPM	HP	V	PH	HZ	AIR FLOW CFM	A.P.D. (IWG)	E.A.T (°F)		L.A.T (°F)		E.A.T (°F)	L.A.T (°F)	ROWS	AIRFLOW CFM	A.P.D. (IWG)	E.A.T. (°F)	L.A.T. (°F)	E.A.T. (°F)	L.A.T. (°F)	ROWS	AIRFLOW CFM	DB	WB	DB	WB	SENS. HEAT (MBH)	TOTAL HEAT (MBH)	MINIMUM MOISTURE REMOVAL RATE (LBS/HR)	MAXIMUM ADP. PRESS. DROP (IWG)	ROWS	MAX. FACE VEL. FPM	AIRFLOW CFM	E.A.T. (°F)	L.A.T. (°F)	SENS. HEAT (MBH)	MAXIMUM ADP. PRESS. DROP (IWG)	ROWS	MAX. FACE VEL. (FPM)
															DB	WB	DB	WB																											
PDU-1	AHU ROOM B17	POOL	45000	35000	10000	2.3	FC	950	50	460	3	60	10000	.5	91	77	97.5	76.1	10	47	4	11000	.6	84	88	84	54	6	28000	84	70	50.8	49.6	1004	1740.1	535	.6	8	500	45000	63.4	100	1778.8	.6	4	650
PDU-2	AHU ROOM B17	POOL	45000	35000	10000	2.3	FC	950	50	460	3	60	10000	.5	91	77	97.5	76.1	10	47	4	11000	.6	84	88	84	54	6	28000	84	70	50.8	49.6	1004	1740.1	535	.6	8	500	45000	63.4	100	1778.8	.6	4	650

NOTES:
1.

EXISTING POOL DEHUMIDIFICATION UNITS (CONTINUED)

HOT WATER HEATING COIL										COAXIAL HOT GAS POOL WATER HEATERS										COMPRESSOR DATA				ELECTRICAL CONNECTION DATA						BASIS OF DESIGN
AIR SIDE		WATER SIDE				MAXIMUM PRESSURE DROP				COMPETITION POOL						LEISURE POOL													
EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	TOTAL HEAT (MBH)	FLOW (GPM)	APD (IN. W.G.)	WPD (FT.)	ROWS	MAX. FACE VELOCITY (FPM)	FLUID	TOTAL HEAT TRANSFER (MBH)	LOWER TEMPERATURE FLUID				FLUID	TOTAL HEAT TRANSFER (MBH)	LOWER TEMPERATURE FLUID				NUMBER OF COMPRESSORS	INPUT HP	LRA	FLA	MCA	MP	TOTAL INPUT (KW)	VOLTS	PHASE	CYCLE (HZ)	
												GPM	EWT (°F)	L.W.T (°F)	MAX PD (FT)			GPM	EWT (°F)	L.W.T (°F)	MAX PD (FT)										
75.8	97.0	180	150	1034.8	69.0	0.3	8.0	1	650	COMPETITION POOL WATER	1024.0	160	82	94.8	15.0	LEISURE POOL WATER	96.0	20	84	93.6	15.0	2	70.0	290/290	120.0	340	450	165.0	460	3	60	"DECTRON", DS-562
75.8	97.0	180	150	1034.8	69.0	0.3	8.0	1	650	–	–	–	–	–	–	–	–	–	–	–	–	2	70.0	290/290	120.0	340	450	165.0	460	3	60	"DECTRON", DS-562

CEILING FAN SCHEDULE

ID NO.	SERVICE			CONSTRUCTION DATA			MOTOR DATA					MANUFACTURER: MODEL	REMARKS
		(MAX D.V.) F.P.M.	RPM	TYPE	DRIVE	FAN WHEEL DIA. (FT.)	HP	VOLT	PH	MOCP	FULL LOAD CURRENT (AMPS)		
CF-A1	SPECTATOR AREA	389	210	PROPELLER	–	6	1.0	120	1	20	11	BIG ASS FANS: PIVOT 180	1,2
CF-A2	SPECTATOR AREA	389	210	PROPELLER	–	6	1.0	120	1	20	11	BIG ASS FANS: PIVOT 180	1,2
CF-A3	SPECTATOR AREA	389	210	PROPELLER	–	6	1.0	120	1	20	11	BIG ASS FANS: PIVOT 180	1,2
CF-A4	SPECTATOR AREA	389	210	PROPELLER	–	6	1.0	120	1	20	11	BIG ASS FANS: PIVOT 180	1,2
CF-A5	SPECTATOR AREA	389	210	PROPELLER	–	6	1.0	120	1	20	11	BIG ASS FANS: PIVOT 180	1,2
CF-A6	SPECTATOR AREA	389	210	PROPELLER	–	6	1.0	120	1	20	11	BIG ASS FANS: PIVOT 180	1,2

NOTES:
1. PROVIDE WITH WALL MOUNTED FAN SPEED CONTROLLER AND ON/OFF SWITCH FOR FAN OSCILLATION FUNCTION. SET FAN OSCILLATION TO 30 DEGREE ANGLE.
2. PROVIDE WITH "HARSH ENVIRONMENT PACKAGE" FOR ALL FANS LOCATED IN THE POOL AREA.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

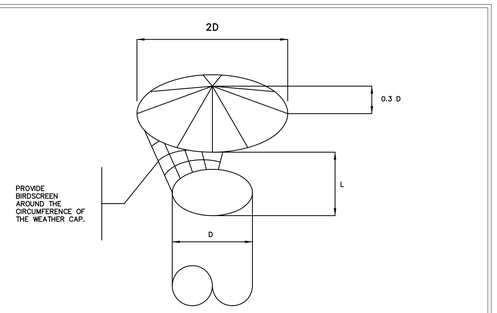
ID NO.	TYPE	NECK SIZE (INCH)	OVERALL SIZE L x W (INCH)	MAXIMUM FLOW (CFM)	PRESSURE DROP AT DESIGN FLOW (IN. W.G.)	MAXIMUM NOISE CRITERIA	FRAME/ MOUNTING	BASIS OF DESIGN MANUFACT./MODEL	REMARKS
EG-1	SINGLE DIFFLECTION	6"ø	9.25"ø	110	0.05	–	DUCT	TITUS/R-301	1,2
EG-2	SINGLE DIFFLECTION	8"ø	11.25"ø	140	0.03	–	DUCT	TITUS/R-301	1,2

NOTES:
1. MATERIAL SHALL BE ALUMINUM WITH ¾" BLADE SPACING.
2. PROVIDE WITH MIL FINISH.

EXHAUST FAN SCHEDULE

ID NO.	LOCATION	AREA SERVED	TYPE	FLOW (CFM)	ESP (IWG)	MOTOR DATA		V/PH/HZ	SONES	BASIS OF DESIGN	REMARKS
						HP	RPM				
EF-1	OUTSIDE ON GRADE	POOL CHEMICAL STORAGE	CENTRIFUGAL UPBLAST	250	0.5	0.25	1750	120/1/60	–	GREENHECK BCSW-FRP-6	1

NOTES:
1. PROVIDE SUPPORT CURB WITH INTEGRAL VIBRATION ISOLATION SPRINGS. SPRINGS SHALL BE RATED FOR 3/4" DEFLECTION AT THE DESIGN LOAD.

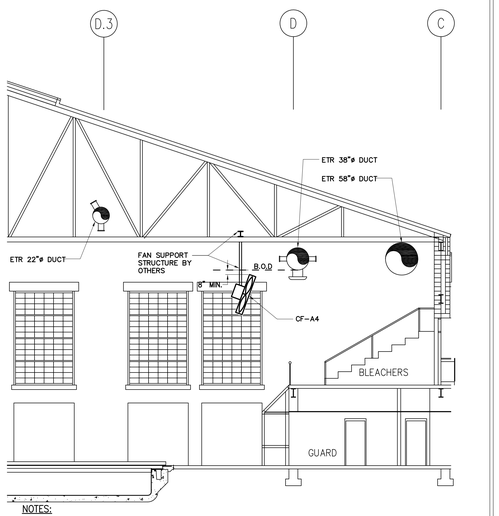


DUCT WEATHER CAP
SEE SMACNA FIG. 14-16-A

NOTES:

1. L = 0.5xD

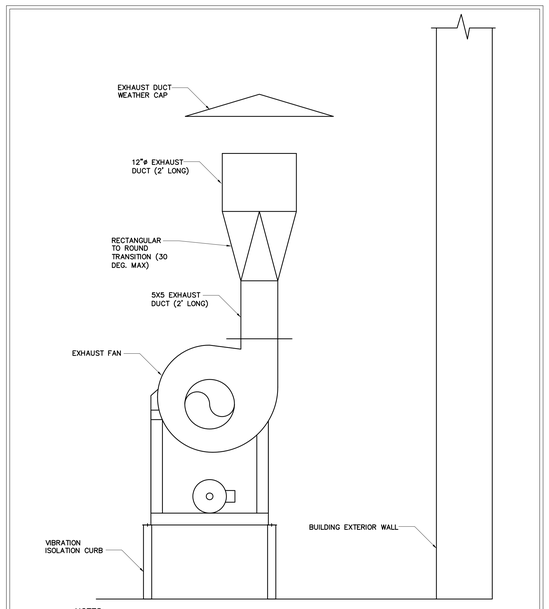
2 EXHAUST DUCT WEATHER CAP
SCALE: NOT TO SCALE



NOTES:

1. B.O.D. = BOTTOM OF DUCT
2. INSTALLATION SHALL CONFORM TO MANUFACTURER'S REQUIRED CLEARANCES.

3 CEILING FAN CF-A4 INSTALLATION
SCALE: NOT TO SCALE



NOTES:

1. SUPPORT VERTICAL DUCT FROM BUILDING EXTERIOR WALL USING STRUCTURAL STEEL SHAPES.
2. PROVIDE FLEXIBLE DUCT CONNECTOR FOR FAN INLET.

1 EXHAUST FAN (EF-1) INSTALLATION REQUIREMENTS
SCALE: NOT TO SCALE

MECHANICAL SPECIFICATIONS

HANGERS AND SUPPORTS FOR DUCTWORK
FACTORY FABRICATED HANGERS AND SUPPORTS. HANGERS AND SUPPORTS SHALL BE HOT-DIPPED GALVANIZED WITH ELECTRO-GALVANIZED FASTENERS AND RODS. FINISH PAINT HANGERS AND SUPPORTS LOCATED IN THE CHEMICAL STORAGE ROOMS WITH A ZINC-CHROMATE PRIMER.

HORIZONTAL DUCT SHALL BE SUPPORTED WITH STEEL CLEVIS TYPE HANGERS, OR TRAPEZE TYPE HANGERS CONSTRUCTED OF PRE-MANUFACTURED STRUCTURAL STEEL SHAPES. ROUND DUCT SHALL BE INSTALLED WITH 180 DEGREE STAINLESS STEEL SADDLE LINED WITH EPDM OR SIMILAR COMPRESSIBLE RUBBER AT ALL HANGER SUPPORTS. SADDLE LENGTH SHALL BE 18" MINIMUM. SUPPORT SPACING SHALL BE IN ACCORDANCE WITH SMACNA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS".

VERTICAL DUCT LOCATED IN CHEMICAL STORAGE ROOMS SHALL BE SUPPORTED BY RISER SUPPORT CLAMPS (TWO CLAMPS MINIMUM PER VERTICAL DUCT). CLAMPS SHALL BE OVERSIZED, AND EXCESS SPACE SHALL BE FILLED BY EPDM OR SIMILAR RUBBER SHEET. CLAMPS SHALL BE TIGHTENED UNTIL THE DUCT AND RUBBER LINER ENGAGE. IT IS NOT THE INTENT THAT THE VERTICAL SUPPORTS ACCOMMODATE THE WEIGHT OF THE DUCTWORK. THE VERTICAL SUPPORTS ARE INTENDED TO PREVENT DAMAGE FROM OCCASIONAL IMPACTS DURING NORMAL USE OF THE SPACE.

EXPANSION BOLTS/SHIELDS: RED HEAD, HILTI OR WEJ-IT SELF DRILLING OR STEEL SHIELD, LOAD RATED. DO NOT USE DRILLED ANCHORS IN POST TENSION SLABS WITHOUT APPROVAL OF OWNER. DO NOT CUT REINFORCING STEEL WITH DRILLED INSERTS.

VIBRATION ISOLATION:
(SEE ROOF MOUNTED EQUIPMENT AND DUCTWORK).

ROUND DUCTWORK PENETRATIONS THROUGH ROOF
PROVIDE FACTORY FABRICATED, THYCURB TYPE TCC-1/TP-S CURBS AND PIPE SLEEVES. SUBMIT INSTALLATION AND FLASHING DETAILS TO ARCHITECT FOR APPROVAL.

ROOF MOUNTED EQUIPMENT AND DUCTWORK
FACTORY FABRICATED, THYCURB TYPE TEMS SUPPORT CURBS. CURBS SUPPORTING ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH INTEGRAL SPRING ISOLATORS. MINIMUM EQUIPMENT CURB HEIGHT TO BE 18". PROVIDE SADDLE SUPPORTS FOR ROOF-MOUNTED DUCTWORK IN ACCORDANCE WITH THE "HANGERS AND SUPPORTS FOR DUCTWORK" PARAGRAPH ABOVE. SUBMIT INSTALLATION AND FLASHING DETAILS TO ARCHITECT FOR APPROVAL.

CHEMICAL EXHAUST DUCTWORK
DUCTWORK AND FITTINGS SHALL BE FIBERGLASS FILAMENT REINFORCED PLASTIC (FRP) SIMILAR TO PERRY FIBERGLASS PRODUCTS, INC. MODEL 20S. FRP DUCTWORK SHALL BE COMPRISED OF AN INNER LINER AND CORROSION BARRIER RESIN FOLLOWED BY A STRUCTURAL RESIN. FRP MATERIALS SHALL BE RATED FOR A FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/50 IN ACCORDANCE WITH ASTM E84. MATERIAL THICKNESS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SMACNA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS". DUCTWORK SHALL BE RATED FOR AN OPERATING TEMPERATURE OF 120 DEG. F. (MIN.).

90 DEG. ROUND ELBOWS: PROVIDE 5-GORE LONG-RADIUS ELBOWS (CENTERLINE BEND RADIUS: R/D = 1.5).

AIR DUCT ACCESSORIES
BALANCING DAMPERS
INSTALL MANUAL BALANCING DAMPER WITH LOCKING QUADRANT AT RUNOUT TAP OF MAIN DUCT FOR EACH EXHAUST GRILLE. DAMPER BODY AND BLADE SHALL BE FIBERGLASS WITH A VINYL ESTER RESIN. DAMPER AXLE SHALL BE PULTRUDED FIBERGLASS IN A VINYL ESTER RESIN. DAMPER SHAFT, BEARINGS AND LOCKING HAND QUADRANT SHALL BE FRP.

FIRE DAMPERS
PROVIDE UL 555 LISTED, 1-1/2 OR 3 HOUR LOUVER BLADE OR CURTAIN TYPE, CLASSIFIED AND CONSTRUCTED FOR DYNAMIC CLOSURE AT 2000 FPM AND 4" W.G. SYSTEM OPERATION IN
HORIZONTAL OR VERTICAL APPLICATIONS.
USE CURTAIN TYPE (OUT OF AIR STREAM) FOR VAV MEDIUM PRESSURE DUCTS.
PROVIDE U.L. APPROVED BREAK AWAY CONNECTIONS. PROVIDE ACCESS PANELS FOR ALL FIRE DAMPERS.

FLEXIBLE CONNECTORS
GLASS FABRIC WITH CHEMICAL-RESISTANT COATING. MINIMUM WEIGHT 14 OZ/SQ. YARD, TENSILE STRENGTH 450 LB/IN. FLEXIBLE CONNECTOR SHALL BE RATED FOR A SERVICE TEMPERATURE OF MINUS 20 DEG. F. TO 120 DEG. F. PROVIDE WITH STAINLESS STEEL END CONNECTORS. ATTACHMENT METHODS TO BE COMPATIBLE WITH FAN AND DUCTWORK.

FANS
CENTRIFUGAL UPBLAST

FAN HOUSING: FIBERGLASS REINFORCED PLASTIC (FRP) CONFORMING TO PS 15-96 FRP CONSTRUCTION STANDARDS. EXTERIOR SURFACES SHALL BE CONSTRUCTED OF RESIN RICH PARAFFINATED RESIN STABILIZED AGAINST ULTRAVIOLET DEGRADATION. THE HOUSING AND BEARING SUPPORTS SHALL BE CONSTRUCTED OF WELDED STRUCTURAL STEEL MEMBERS. PROVIDE OSHA COMPLIANT BELT AND SHAFT GUARD.

FAN WHEEL: BACKWARD INCLINED NON-OVERLOADING CENTRIFUGAL TYPE. FRP ENCAPSULATED STEEL HUB AND BACKPLATE WITH FRP BLADES. FAN SHAFT-TO-IMPELLER CONNECTION SHALL BE LOCATED OUTSIDE OF THE AIRSTREAM. FAN WHEEL SHALL BE STATICALLY AND DYNAMICALLY BALANCED AT THE FACTORY.

FAN MOTOR: HIGH EFFICIENCY TEFC WITH SERVICE FACTOR OF 1.15.

TESTING, ADJUSTING, AND BALANCING
ALL SYSTEMS WITHIN SCOPE OF WORK TO BE BALANCED IN THEIR ENTIRETY.
TESTING, ADJUSTING, AND BALANCING SHALL INCLUDE BUT NOT BE LIMITED TO AIR SYSTEMS, HYDRONIC SYSTEMS, EXISTING SYSTEMS.
TESTING, ADJUSTING AND BALANCING AGENT SHALL BE AABC, NEBB, OR TABB CERTIFIED. AARP SHALL GIVE PRIOR APPROVAL TO SELECTION OF TESTING AND BALANCE CONTRACTOR.
TOLERANCES: PLUS OR MINUS 10 PERCENT OF DESIGN VALUES.
INSPECTIONS: RANDOM CHECKS BY OWNER TO VERIFY FINAL TESTING, ADJUSTING, AND BALANCING REPORT.
ADDITIONAL TESTS: RANDOM TESTS WITHIN 90 DAYS OF COMPLETING TAB TO VERIFY BALANCE CONDITIONS AND SEASONAL TESTS.
CONTRACTOR SHALL PROVIDE COPIES OF THE TAB REPORT TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

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TAKOMA AQUATIC CENTER Phase 1

300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

MECHANICAL SCHEDULES, SPECIFICATIONS AND DETAILS

DISTRICT OF COLUMBIA · REGISTERED · PROFESSIONAL ENGINEER

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

M301

ELECTRICAL NOTES

SPECIFICATION

A. CODE:

a. ELECTRICAL INSTALLATION SHALL ADHERE TO NEC REQUIREMENTS, PARTICULARLY SECTION 680.

B. DEFINITIONS

a. "PROVIDE" UNDER THIS CONTRACT IS DEFINED AS FURNISH AND INSTALL.
b. "CONCEALED" UNDER THIS CONTRACT IS DEFINED AS HIDDEN BY ARCHITECTURAL WALLS AND CEILINGS.
c. "EXPOSED" UNDER THIS CONTRACT IS DEFINED AS VISIBLE TO VIEW.
d. "INDICATED" UNDER THIS CONTRACT IS DEFINED AS SHOWN IN THE CONTRACT DOCUMENTS.

C. SECTION 260533: RACEWAYS, BOXES AND CONDUITS FOR ELECTRICAL SYSTEMS

1. OUTDOORS WIRING METHODS: USE THE FOLLOWING WIRING METHODS:
   a. EXPOSED: CONDUCTORS IN RIGID OR INTERMEDIATEMETAL CONDUIT.
   b. CONCEALED: CONDUCTORS IN RIGID OR INTERMEDIATE METAL CONDUIT.
   c. UNDERGROUND: CONDUCTORS IN PLASTIC CONDUIT, UNLESS OTHERWISE NOTED.
   d. CONNECTION TO VIBRATING EQUIPMENT: LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
   e. BOXES AND ENCLOSURES: NEMA TYPE 3R OR TYPE 4.
2. INDOORS WIRING METHODS: USE THE FOLLOWING METHODS:
   a. CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT, EXCEPT IN WET OR DAMP LOCATIONS USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
   b. DAMP OR WET LOCATIONS: CONDUCTORS IN RIGID STEEL CONDUIT.
   c. EXPOSED: CONDUCTORS IN ELECTRICAL METALLIC TUBING.
   d. CONCEALED: CONDUCTORS IN ELECTRICAL METALLIC TUBING.
   e. BOXES AND ENCLOSURES: NEMA TYPE 1, EXCEPT IN DAMP OR WET LOCATIONS USE NEMA TYPE 4, STAINLESS STEEL.
3. ALL WIRING IN FINISHED AREAS SHALL BE RUN CONCEALED. MINIMUM SIZE CONDUIT SHALL BE 3/4".
4. CONDUCTORS SHALL BE THERMOPLASTIC TYPE THHN/THWN WITH 90 DEGREE CELSIUS INSULATION RATING (CURRENT CARRYING CAPACITY BASED ON 75 DEGREE CELSIUS INSULATION RATING).
5. EMT CONNECTORS AND COUPLINGS SHALL BE OF THE ALL-STEEL, COMPRESSION TYPE.
6. EXPOSED AND CONCEALED WIRING (WHETHER CONDUIT AND WIRE OR CABLE) SHALL BE RUN TIGHT TO CEILING SLAB (AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM) IN A NEAT, WORKMANLIKE MANNER. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING WALLS.
7. ALL WIRING RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE MOST SUITABLE ROUTES.
8. ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE. WHERE RACEWAYS CANNOT BE CONCEALED, IT SHALL BE INSTALLED AT ARCHITECT'S DIRECTION.
9. EXPOSED LOW VOLTAGE WIRING SHALL BE INSTALLED IN A RACEWAY, UNLESS OTHERWISE NOTED.
10. OUTLET BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH THE APPROPRIATE PLASTER RING OR TILE COVER.
11. WHERE EXISTING WALLS ARE FURRED OUT AND DEVICES ARE NOT NOTED TO BE REMOVED, PROVIDE EXTENSION BOXES TO BRING FACE OF DEVICES FLUSH WITH NEW FINISH SURFACE AND CONTINUE IN SERVICE.
12. CONTRACTOR SHALL PROVIDE NEW TYPED PANEL DIRECTORIES PLACED BEHIND A RIGID SLEEVE FOR ALL PANELS AFFECTED BY THIS WORK.
13. CONTRACTOR SHALL DERATE CONDUCTORS PER NATIONAL ELECTRIC CODE AND PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH THREE PHASE CONDUCTOR IF MORE THAN THREE PHASE CONDUCTORS ARE INSTALLED IN A SINGLE PIPE.

D. SECTION 260519: WIRE AND CABLE

1. ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12 (EXCEPT CONTROL CONDUCTORS) CONDUCTORS FOR SWITCHING LIGHTS SHALL NOT BE CONSIDERED CONTROL CONDUCTORS), WITH 600 VOLT TYPE "THWN-THWN" INSULATION. CONDUCTORS [#8] AND LARGER SHALL BE STRANDED.
2. ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 75 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM.
3. RUN MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (I.E., 1, 3, 5)

E. SECTION 262726: WIRING DEVICES

1. THE LOCATION OF ALL WIRING DEVICES SHALL BE VERIFIED BEFORE INSTALLATION WITH THE OWNER.
2. ALL OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.
3. WALL MOUNTED WIRING DEVICES SHALL BE IVORY COLOR, OR AS SELECTED BY THE ARCHITECT AND EQUAL TO THE FOLLOWING

   a. SINGLE POLE SWITCH — LEVITON 1221-2
   b. KEY OPERATED SWITCH — LEVITON 1221-2L
   c. WALL SWITCH SENSORS — WATT STOPPER WS-200

4. OUTLET BOXED FOR WIRING DEVICES IN FINISHED WALLS SHALL BE ONE PIECE STANDARD GANG TYPE OF SIZE TO ACCOMMODATE NUMBER OF DEVICES NOTED. BOXES SHALL HAVE PLASTIC COVERS TO BRING BOX OPENING FLUSH WITH FINISHED WALL OR NOT MORE THAN 1/4" IN BACK OF SAME.

F. SECTION 260529: SUPPORTING DEVICES

1. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH NEC REQUIREMENTS AND ANY ADDITIONAL LOCAL CODES.
2. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.

G. SECTION 260553: ELECTRICAL IDENTIFICATION

1. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:

   208/120 VOLTS PHASE

BLACK	A
RED	B
BLUE	C
WHITE	NEUTRAL
GREEN	GROUND

   480/277 VOLTS PHASE

BROWN	A
ORANGE	B
YELLOW	C
WHITE	NEUTRAL
GREEN	GROUND

2. APPLY EQUIPMENT IDENTIFICATION LABELS (MINIMUM 1" HIGH LETTERS) OF ENGRAVED PLASTIC-LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.

   a. PANELBOARDS.
   b. ELECTRICAL CABINETS.
   c. ENCLOSURES.
   d. PUSHBUTTON STATIONS.

3. APPLY CIRCUIT/CONTROL/ITEM DESIGNATION LABELS OF ENGRAVED PLASTIC LAMINATE FOR DISCONNECT SWITCHES, BREAKERS, PUSHBUTTONS, PILOT LIGHTS, AND SIMILAR ITEMS FOR POWER DISTRIBUTION AND CONTROL COMPONENTS ABOVE.
4. FOR PANELBOARDS: PROVIDE FRAMED, TYPED CIRCUIT SCHEDULES WITH EXPLICIT DESCRIPTION AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER.

H. SECTION 260526: GROUNDING

1. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH NEC EXCEPT WHERE GROUNDING IN EXCESS OF NEC REQUIREMENTS IS INDICATED.
2. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUNDING CONDUCTORS. ALL NEW RECEPTACLE CIRCUITS SHALL CONTAIN A #12 INSULATED GROUNDING CONDUCTOR.

ELECTRICAL LEGEND

GENERAL NOTES

1. THE WORK TO BE DONE SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENTS AND SERVICES REQUIRED TO CONSTRUCT, INSTALL AND TO MODIFY THE ELECTRICAL SYSTEMS AS HEREIN SPECIFIED AND SHOWN ON THESE DRAWINGS FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING THE ELECTRICAL WORK AND PROVIDE AND INSTALL ALL NECESSARY ANCHORS, SLEEVES, HANGERS, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES.
2. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
3. THE DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND LOCATIONS OF OUTLETS, SWITCHES, PANELBOARDS, CONDUIT AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE ACCESSORY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AT NO EXTRA COST.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE AND TO COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND THE DRAWINGS OF ALL OTHER TRADES IN ORDER TO BECOME FAMILIAR WITH ALL ASPECTS OF THE DESIGN AFFECTING THE ELECTRICAL WORK.
5. CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. DEVICES INCLUDE BUT ARE NOT LIMITED TO RECEPTACLES, SWITCHES, FIXTURES AND TELE/DATA OUTLETS.
6. ALL ELECTRICAL MATERIALS SHALL BE NEW EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING TO BE REUSED. ALL MATERIAL SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. (UL). DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION AND/OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND THE ENGINEER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS.
7. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE.
8. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
9. INSTALL A UL LISTED FIRE STOP TO PROVIDE AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE WHERE CONDUITS, WIREWAYS, AND OTHER ELECTRICAL RACEWAYS PASS THROUGH FIRE RATED PARTITIONS AND/OR SLABS.
10. ALL CERTIFICATES OF APPROVAL SHALL BE IN TRIPLICATE, DELIVERED TO THE ENGINEER, AND BECOME THE PROPERTY OF THE OWNER.
11. CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENTS BEFORE INSTALLING CONDUIT OR CONDUCTORS FROM POWER SOURCE TO EQUIPMENT TERMINATION.
12. THE CONTRACTOR SHALL X-RAY SLAB IN AREA OF PENETRATION PRIOR TO CORE DRILLING AND COORDINATE WITH EQUIPMENT IN CEILING SPACE BELOW TO CHECK FOR OBSTRUCTIONS.
13. CONDUCTOR INSTALLATION: HOMERUNS TO THE PANELBOARD MAY BE RUN TOGETHER IN ONE CONDUIT.
14. PROVIDED ALL CONNECTIONS ARE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE REQUIREMENTS, AND THE MAXIMUM UNBALANCED CURRENT IN NEUTRAL DOES NOT EXCEED THE CAPACITY OF THE WIRE, NO MORE THAN 3 SINGLE PHASE CIRCUIT SHALL BE INSTALLED IN ONE RACEWAY. ELIMINATE SPLICES WHEREVER POSSIBLE, AND WHERE NECESSARY, SPLICE IN READILY ACCESSIBLE PULL, JUNCTION OR OUTLET BOX.
15. MODIFICATIONS TO EXISTING PANELBOARDS: THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSED SWITCHES AS REQUIRED. NEW EQUIPMENT SHALL MATCH EXISTING INSTALLED EQUIPMENT AND SHALL BE OF THE SAME MANUFACTURER AND TYPE AS SIMILAR EXISTING EQUIPMENT. INTERRUPT RATING OF EQUIPMENT SHALL BE THE SAME AS OF THE EXISTING EQUIPMENT.
16. INTERRUPTION OF ELECTRICAL POWER: THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER WITH THE BUILDING OWNER AND SHALL OBTAIN WRITTEN PERMISSION FROM THE BUILDING OWNER PRIOR TO SHUTTING DOWN POWER TO ANY SWITCHBOARD. THE CONTRACTOR SHALL ALSO PROVIDE NOTICE TO ALL OTHER TRADES OF ALL SCHEDULED INTERRUPTIONS OF POWER.
17. SITE VISIT: PRIOR TO SUBMITTING HIS BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER IN ADVANCE OF ANY CONDITIONS THAT EXIST THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. FAILURE TO SURVEY THE SITE PRIOR TO BID AND START OF CONSTRUCTION WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO INSTALL DESIGN WITHIN THE CONFINES OF THE EXISTING CONDITIONS.
18. GUARANTEE: THE ELECTRICAL CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE. THE ELECTRICAL CONTRACTOR SHALL, DURING THE ONE YEAR GUARANTEE PERIOD, BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC, INSTALLED BY HIM, AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING. PRIOR TO THE EXPIRATION OF THE GUARANTEE PERIOD, APPROXIMATELY 11 MONTHS AFTER FINAL ACCEPTANCE OF THIS PROJECT, A POST CONSTRUCTION REVIEW OF THE PROJECT WILL BE MADE.
19. THE CONTRACTOR SHALL FURNISH PERSONNEL TO ASSIST THE OWNER IN THIS REVIEW. ANY ADJUSTMENTS, REPAIRS OR REPLACEMENTS FOUND NECESSARY DURING REVIEW SHALL BE DONE BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
20. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.
21. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER AND ONE COPY GIVEN TO THE ENGINEER UPON COMPLETION OF WORK.
22. ALL CONDUCTORS SHALL BE COPPER, CONFORMING TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STRANDED FOR NO. 8 AWG AND LARGER, SOLID FOR NO. 10 AWG AND SMALLER.
23. ALL WIRING SHALL BE INSTALLED IN CONDUIT (EMT WITH STEEL COMPRESSION FITTINGS OR TYPE MC CABLE WHERE ALLOWED BY CODE). MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT AND WIRING SHALL BE CONCEALED IN CEILINGS AND/OR WALLS UNLESS SPECIFICALLY NOTED OTHERWISE. CHANNEL EXISTING WALLS WHERE REQUIRED. WHERE WIRING RUNS ARE EXPOSED DUE TO THE LACK OF A NEW FINISHED CEILING, EMT SHALL BE USED. INSTALL ALL CONDUITS IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.

MAXIMM BRANCH CIRCUIT LENGHT TO FARTHEST OUTLET, ONE WAY

AWG	120V, 1PH			277V, 1PH		
#12	65'	–	–	150'	–	–
#10	–	125'	–	–	275'	–
#8	–	–	200'	–	–	–

ELECTRICAL LEGEND

GENERAL

- (#) INDICATES PLAN NOTE.
- (#) INDICATES REVISION. CLOUDED AREA CONTAINS THE REVISION.
- (#) INDICATES ROOM NUMBER.
- BRANCH CIRCUIT HOMERUN
- CONDUIT UP
- CONDUIT DOWN
- GROUND
- E: EXISTING TO REMAIN.
- LIGHT LINES INDICATE EXISTING TO REMAIN.

ABBREVIATIONS

A, AMP	AMPERES	G, GND	GROUND
AB	ABOVE	GC	GENERAL CONTRACTOR
AC	ALTERNATE CURRENT	GFI	GROUND FAULT INRERRUPTER
AFF	ABOVE FINISHED FLOOR	IG	ISOLATED GROUND
ARCH	ARCHITECTURAL, ARCHITECT	INCAND	INCANDESCENT
BEL	BELOW	KAIC	KILOAMP INTERRUPTING CURRENT
BKR	BREAKER	KVA	KILOVOLT AMPERES
C	CONDUIT	KW	KILOWATTS
CEIL	CEILING	LT(S)	LIGHT(S)
CKT	CIRCUIT	M	METER
CM	CENTIMETER	MECH	MECHANICAL
DC	DIRECT CURRENT	MH	MOUNTING HEIGHT
D/S	DISCONNECT SWITCH	MLO	MAIN LUGS ONLY
DISC	DISCONNECT SWITCH	MM	MILLIMETER
DWG	DRAWING	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE
EF	EXHAUST FAN	NO.,#	NUMBER
ELEC	ELECTRICAL	NTS	NOT TO SCALE
EM	EMERGENCY	P	POLE
EQUIP	EQUIPMENT	PH, ø	PHASE
EXIST	EXISTING	PNL	PANEL
FA	FIRE ALARM	RECEP	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	RM	ROOM
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TELE	TELEPHONE
FIXT	FIXTURE	TYP	TYPICAL
FLA	FULL LOAD AMPERES	UON	UNLESS OTHERWISE NOTED
FLUOR	FLUORESCENT	V	VOLTS
		W	WATTS
		W/	WITH
		WP	WEATHERPROOF

POWER

NOTES: REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.

WP: WEATHER PROOF (NEMA 3R)
IG: ISOLATED GROUND.
GFI: GROUND FAULT INTERRUPTER.

- WALL MOUNTED 20A SIMPLEX RECEPTACLE (18" AFF UON).
- WALL MOUNTED 20A DUPLEX RECEPTACLE. (18" AFF UON).
- WALL MOUNTED 20A DUPLEX RECEPTACLE. (ABOVE COUNTER UON).
- WALL 20A QUADRUPLEX RECEPTACLE. (18" AFF UON).
- WALL MTD. SPECIAL RECEPTACLE. NEMA TYPE PER PLANS.
- FLOOR MOUNTED 20A SIMPLEX RECEPTACLE.
- FLOOR MOUNTED 20A DUPLEX RECEPTACLE.
- FLOOR MOUNTED 20A QUADRUPLEX RECEPTACLE.
- FLOOR MTD. SPECIAL RECEPTACLE. NEMA TYPE PER PLANS.
- FLOOR MTD. BOX FOR POWER AND DATA. (2) QUAD RECEPTACLES & (4) DATA OUTLETS, U.O.N.
- CEILING MOUNTED JUNCTION BOX.
- JUNCTION BOX CEILING/WALL MOUNTED FOR HVAC VAV BOX CONTROL 1ø, 115V.
- JUNCTION BOX CEILING/WALL MOUNTED FOR HVAC MOTORIZED DAMPER 1ø, 115V.
- WALL MOUNTED JUNCTION BOX.
- DISCONNECT SWITCH – NON-FUSED.
- FUSED DISCONNECT SWITCH. FUSE SIZE PER PLANS.
- COMBINATION STARTER/DISCONNECT SWITCH.
- VARIABLE FREQUENCY DRIVE.
- VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONENCT.
- MOTOR. REFER TO MECHANICAL PLANS FOR HORSEPOWER.
- MULTI-OUTLET SURFACE MOUNTED POWER RACEWAY.
- MULTI-OUTLET SURFACE MOUNTED POWER & DATA RACEWAY.
- SURFACE MOUNTED PANEL.
- RECESSED PANEL.
- EMERGENCY POWER OFF.
- ENCLOSED CIRCUIT BREAKER.
- PULL BOX.
- POWER POLE.
- POWER/DATA POKE-THRU WIREMOLD EVOLUTION BAT SERIES OR EQUAL.

SPECIAL SYSTEMS

NOTE: UNLESS OTHERWISE NOTED, FOR ALL DEVICES IN THIS COLUMN PROVIDE BACK BOX AND 1"EMPTY CONDUIT STUBBED 6" INTO ACCESSIBLE CEILING SPACE. FOR FLOOR MOUNTED BOXES, PROVIDE CONDUIT EITHER IN SLAB OR VIA FLOOR BELOW TO ACCESSIBLE CEILING SPACE OF DEVICE LOCATION.

- DATA OUTLET.
- TELEPHONE OUTLET.
- COMBINATION DATA/TELEPHONE OUTLET.
- FLOOR MOUNTED DATA/TELEPHONE OUTLET.
- CEILING MOUNTED TELEPHONE/DATA OUTLET.
- WALL MOUNTED AUDIO/VISUAL OUTLET.
- CEILING MOUNTED AUDIO/VISUAL OUTLET.
- CEILING MOUNTED INTERCOM OR MUSIC SPEAKER.
- CARD READER.
- KEY PAD.
- SECURITY SYSTEM CAMERA.
- MOTION DETECTOR.
- PUSH BUTTON.
- FLOOR OR WALL MOUNTED TV OUTLET.
- CEILING MOUNTED TV OUTLET.

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TAKOMA AQUATIC CENTER Phase 1

300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

ELECTRICAL COVER SHEET

DISTRICT OF COLUMBIA · EDDY FUENTES FRANCO · No. 8723 · ELECTRICAL · PROFESSIONAL ENGINEER

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

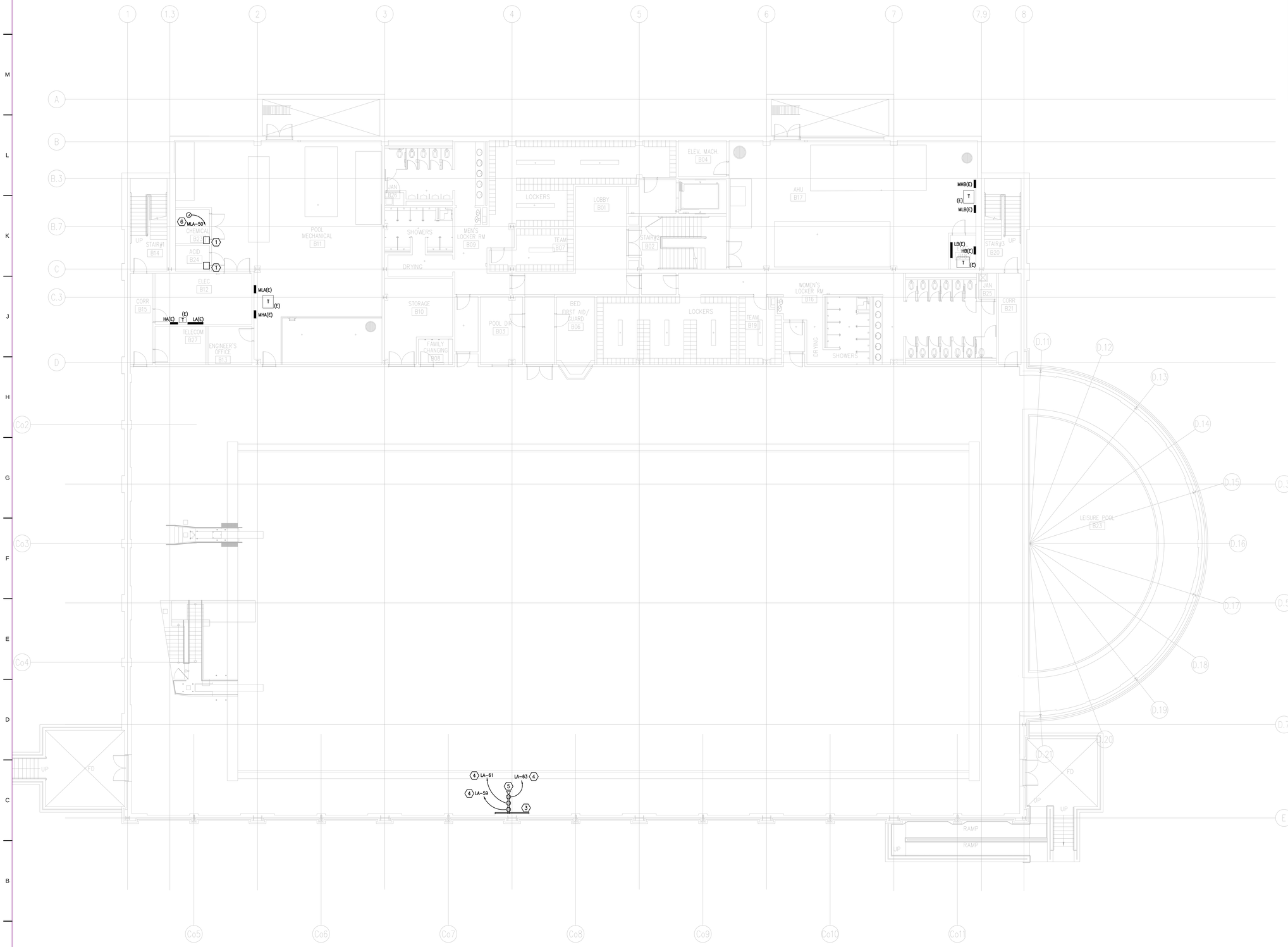
E001

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. ALL ELECTRICAL EQUIPMENT INSTALLED IN THE POOL AREA SHALL BE OF CORROSIVE RESISTANT MATERIAL.

SPECIFIC NOTES

1. EXISTING FANS IN THIS ROOM SHALL BE REMOVED. REMOVE ASSOCIATED BRANCH CIRCUITING AND WIRING BACK TO SOURCE. SEE COORDINATE WITH MECHANICAL DRAWINGS FOR DEMOLITION.
2. NOT USED.
3. NEW SCOREBOARD. PROVIDE POWER AS SHOWN. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION. GROUND SCORE BOARD PER MANUFACTURER AND NEC REQUIREMENTS. CONCEAL CONDUITS AS MUCH AS POSSIBLE.
4. PROVIDE NEW DEDICATED 1P/20A CIRCUIT BREAKER IN EXISTING PANEL LA. NEW BREAKER SHALL MATCH EXISTING. PROVIDE HANDLE TIE FOR BREAKERS FOR SIMULTANEOUS SHUTTING OF BREAKERS PER NEC AND MANUFACTURER REQUIREMENTS.
5. PROVIDE DATA OUTLET AND 1" EMPTY CONDUIT FROM THIS LOCATION TO TELECOM CLOSET OR THE FINAL LOCATION AS DIRECTED BY OWNER. CONCEAL AS MUCH OF CONDUIT AS POSSIBLE.
6. PROVIDE POWER FOR MOTORIZED DAMPER. COORDINATE WITH MECHANICAL DRAWINGS.



1 **ELECTRICAL - BASEMENT - LIGHTING - NEW WORK**
SCALE: 1/8"=1'-0"

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TAKOMA AQUATIC CENTER Phase 1

300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

ELECTRICAL BASEMENT POWER PLAN

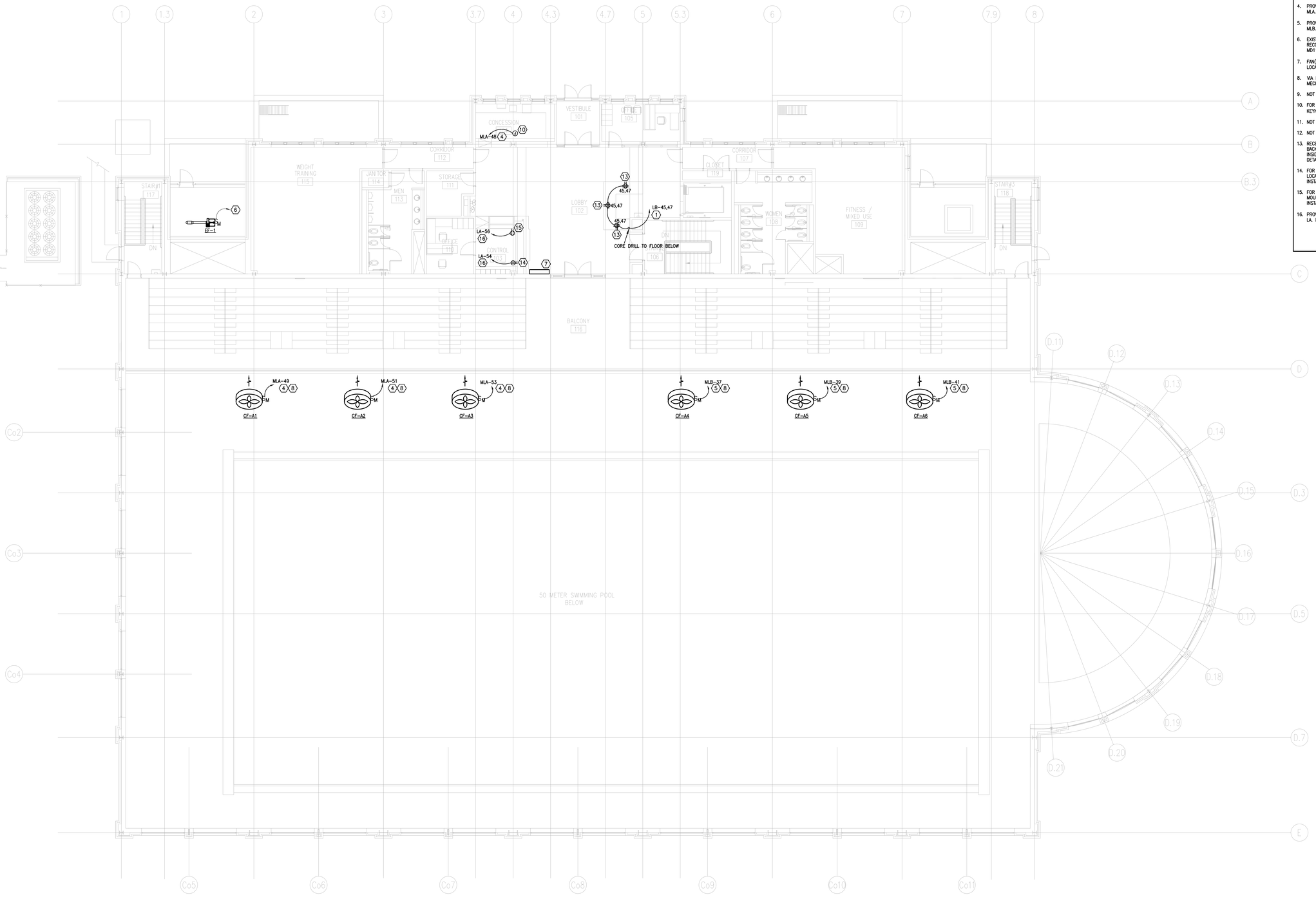
DISTRICT OF COLUMBIA · EDDY FUENTES TRAINA · No. 8723 · ELECTRICAL · PROFESSIONAL ENGINEER

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

E110



GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. ALL ELECTRICAL EQUIPMENT INSTALLED IN THE POOL AREA SHALL BE OF CORROSIVE RESISTANT MATERIAL.

SPECIFIC NOTES

1. PROVIDE NEW 1P/20A CIRCUIT BREAKERS FOR CIRCUIT #45 &47 IN EXISTING PANEL LB. NEW BREAKERS SHALL MATCH EXISTING.
2. NOT USED.
3. PROVIDE NEW 3P/20A CIRCUIT BREAKER IN EXISTING PANEL MHB. NEW BREAKER SHALL MATCH EXISTING.
4. PROVIDE NEW 1P/20A CIRCUIT BREAKERS IN EXISTING PANEL MLA. NEW BREAKERS SHALL MATCH EXISTING.
5. PROVIDE NEW 1P/20A CIRCUIT BREAKERS IN EXISTING PANEL MLB. NEW BREAKERS SHALL MATCH WITH EXISTING.
6. EXISTING EF-1 BRANCH CIRCUITING TO REMAIN. EXTEND AND RECONNECT TO RELOCATED EF-1. SEE MECHANICAL DRAWING MD110 FOR ADDITIONAL INFORMATION.
7. FAN(CF-A1 THRU CF-A6) CONTROLLERS. COORDINATE FINAL LOCATION WITH OWNER.
8. VIA FAN CONTROLLER. SEE NOTE 7. COORDINATE WITH MECHANICAL.
9. NOT USED.
10. FOR DDC CONTROLLER FOR THERMOSTATIC CONTROL. SEE KEYNOTE #3 ON M111. PROVIDE JUNCTION BOX IN CEILING.
11. NOT USED.
12. NOT USED.
13. RECEPTACLES SHALL BE MOUNTED BELOW COUNTER TOP ON BACK WALL OF DESK AND CONDUIT SHALL BE CONCEALED INSIDE THE CAVITY OF DESK. COORDINATE EXACT MOUNTING DETAIL WITH ARCHITECT.
14. FOR POPCORN POPPER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
15. FOR UNDER COUNTER REFRIGERATOR. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
16. PROVIDE NEW 1P/20A CIRCUIT BREAKERS IN EXISTING PANEL LA. NEW BREAKERS SHALL MATCH EXISTING.

1 ELECTRICAL - FIRST FLOOR - LIGHTING - NEW WORK
SCALE: 1/8"=1'-0"

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TAKOMA AQUATIC CENTER Phase 1

300 VAN BUREN ST NW, WASHINGTON, DC 20012

QEA # 31508100
OWNER # 0000000000

ELECTRICAL FIRST FLOOR POWER PLAN

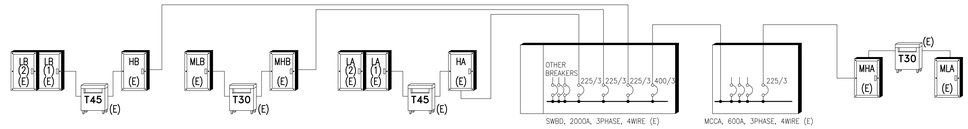
DISTRICT OF COLUMBIA · EDDY FUENTES TRAINA · No. 8723 · ELECTRICAL · PROFESSIONAL ENGINEER

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

E111



1 ELECTRICAL EXISTING PARTIAL RISER DIAGRAM

SCALE: NOT TO SCALE

PANELBOARD NAME: LA

(EXISTING) SECTION 1 — ○ NEW ◉ EXISTING — ○ 1 SEC ◉ 2 SEC — Global Engineering Solutions®

VOLTAGE: **208Y/120V** BUS RATING: **225A** POLES: **42** MIN/MUM.A.I.C. RATING (A): **EXISTING**

PHASE/WIRE: **3 PHASE, 4 WIRE + GROUND** MAIN: **150A MCB** MOUNTING: **SURFACE** SERVICE: **NORMAL**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	C	POOL LIGHTS	1	20	1000	2000			1000	1	20	POOL LIGHTS	C	2
3	C	POOL LIGHTS	1	20	1000		2000		1000	1	20	POOL LIGHTS	C	4
5	C	POOL LIGHTS	1	20	1000			2000	1000	1	20	POOL LIGHTS	C	6
7	C	POOL LIGHTS	1	20	1000	2000			1000	1	20	POOL LIGHTS	C	8
9	R	RECEPT	1	20	400		1900		1500	1	20	MICROWAVE	R	10
11	R	RECEPT	1	20	600			1600	1000	1	20	RECEPT	R	12
13	R	RECEPT	1	40	1200	2200			1000	1	20	RECEPT	R	14
15	R	RECEPT	1	20	700		1300		600	1	20	RECEPT	R	16
17	R	RECEPT	1	20	600			1100	500	1	20	RECEPT	R	18
19	M	HEAT TRACE	1	20	800	1300			500	1	20	RECEPT	R	20
21	R	RECEPT	1	20	900		1600		700	1	20	RECEPT	R	22
23	M	WATER LEVEL	1	20	400			1900	1500	1	20	DRYER	K	24
25	R	RECEPT/SNOW LIGHTS	1	20	700	2200			1500	1	20	DRYER	K	26
27	R	RECEPT	1	20	600		2100		1500	1	20	DRYER	K	28
29	R	RECEPT	1	20	700			2200	1500	1	20	DRYER	K	30
31	R	RECEPT	1	20	600	2100			1500	1	20	DRYER	K	32
33	R	RECEPT	1	20	900		1900		1000	1	20	EWC	M	34
35	R	RECEPT	1	20	700			1700	1000	1	20	RECEPT	R	36
37	R	RECEPT	1	20	800	1300			500	1	20	RECEPT	R	38
39	R	RECEPT	1	20	800		1300		500	1	20	LC-OL, LC-1	N	40
41	R	RECEPT	1	20	1500			1500			20	SPARE		42
TOTAL CONNECTED LOAD (A):			103.3			36.4	33.6	33.3	(AMPS/PHASE)					
TOTAL CONNECTED LOAD_SEC 1 (VA):			37,200			13,100	12,100	12,000	(VA/PHASE)					
TOTAL CONNECTED LOAD_SEC 2 (VA):			14,506			6,800	4,300	3,406	(VA/PHASE)					

BOLD INDICATES NEW

PROVIDE ITEMS MARKED BELOW :
- ☐ DOOR-IN-DOOR CONSTRUCTION
- ☐ SHUNT-TRIP ON MAIN DEVICE
- ☐ FEED-THRU LUGS
- ☐ SERVICE NEUTRAL (S/N)
- ☐ ISOLATED GROUND BUS
- ☐ 200% NEUTRAL
- ☐ NEMA 3R
- ☐ OTHER : _____

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C	13,400	37	16,750	46
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R	21,800	61	15,900	44
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M	5,000	14	5,250	15
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K	9,000	25	5,850	16
NON-CONTINUOUS LOADS (@100%)	N	2,500	7	2,500	7
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		51.70		46.25	
TOTAL CONNECTED & DEMAND LOAD (A):		143.50		128.38	

PANELBOARD NAME: LB

(EXISTING) SECTION 1 — ○ NEW ◉ EXISTING — ○ 1 SEC ◉ 2 SEC — Global Engineering Solutions®

VOLTAGE: **208Y/120V** BUS RATING: **225A** POLES: **42** MIN/MUM.A.I.C. RATING (A): **EXISTING**

PHASE/WIRE: **3 PHASE, 4 WIRE + GROUND** MAIN: **150A MCB** MOUNTING: **SURFACE** SERVICE: **NORMAL**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	C	UNDERWATER LIGHTING	1	20	1000	2000			1000	1	20	UNDERWATER LIGHTING	C	2
3	C	UNDERWATER LIGHTING	1	20	1000		2000		1000	1	20	UNDERWATER LIGHTING	C	4
5	C	UNDERWATER LIGHTING	1	20	1000			2000	1000	1	20	UNDERWATER LIGHTING	C	6
7	M	HAND DRYER	1	20	1500	2300			800	1	20	RECEPT	R	8
9	M	HAND DRYER	1	20	1500		2300		800	1	20	RECEPT	R	10
11	M	HAND DRYER	1	20	1500			2100	600	1	20	RECEPT	R	12
13	M	HAND DRYER	1	20	1500	2500			1000	1	20	RECEPT	R	14
15	M	HAND DRYER	1	20	1500		2400		900	1	20	RECEPT	R	16
17	R	GFCI RECEPT	1	20	1000			2000	1000	1	20	RECEPT	R	18
19	R	GFCI RECEPT	1	20	1000	1400			400	1	20	LC-3, LC-1 CONTROL	N	20
21	R	GFCI RECEPT	1	20	1000		1800		800	1	20	EXISTING LOAD	N	22
23	R	RECEPT	1	20	1600			3450	1850	1	20	LEISURE POOL LIGHTING	C	24
25	R	RECEPT	1	20	800	2300			1500	1	20	SCORE BOARD	N	26
27	N	ACCESS CONTROL	1	20	500		2000		1500	1	20	SCORE BOARD	N	28
29	R	CWC-1 RECEPT	1	20	800			2650	1850	1	20	LEISURE POOL LIGHTING	C	30
31	N	ACCESS CONTROL	1	20	500	1000			500	1	20	ACCESS CONTROL (F/A)	N	32
33	N	ACCESS CONTROL	1	20	500		1300		800	1	20	EXISTING LOAD	N	34
35	N	ACCESS CONTROL	1	20	500			1500	1000	1	20	RECEPT	R	36
37	M	WOMENS DRYER	1	20	1500	2000			500	1	20	STAIRWAY RECEPT	R	38
39	M	MENS DRYER	1	20	1500		2300		800	1	20	EXISTING LOAD	N	40
41	R	GFCI MENS	1	20	1000			1800	800	1	20	EXISTING LOAD	N	42
TOTAL CONNECTED LOAD (A):			119.6			37.5	39.1	43.0	(AMPS/PHASE)					
TOTAL CONNECTED LOAD_SEC 1 (VA):			43,100			13,500	14,100	15,500	(VA/PHASE)					
TOTAL CONNECTED LOAD_SEC 2 (VA):			2,000			1,000	1,000		(VA/PHASE)					

BOLD INDICATES NEW

PROVIDE ITEMS MARKED BELOW :
- ☐ DOOR-IN-DOOR CONSTRUCTION
- ☐ SHUNT-TRIP ON MAIN DEVICE
- ☐ FEED-THRU LUGS
- ☐ SERVICE NEUTRAL (S/N)
- ☐ ISOLATED GROUND BUS
- ☐ 200% NEUTRAL
- ☐ NEMA 3R
- ☐ OTHER : _____

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C	9,700	27	12,125	34
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R	15,800	44	12,900	36
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M	10,500	29	10,875	30
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K				
NON-CONTINUOUS LOADS (@100%)	N	9,100	25	9,100	25
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		45.10		45.00	
TOTAL CONNECTED & DEMAND LOAD (A):		125.19		124.91	

PANELBOARD NAME: MLA

(EXISTING) SECTION 1 — ○ NEW ◉ EXISTING — ○ 1 SEC ◉ 2 SEC — Global Engineering Solutions®

VOLTAGE: **208Y/120V** BUS RATING: **100A** POLES: **42** MIN/MUM.A.I.C. RATING (A): **EXISTING**

PHASE/WIRE: **3 PHASE, 4 WIRE + GROUND** MAIN: **100A MCB** MOUNTING: **SURFACE** SERVICE: **NORMAL**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1				--		500			500	2	20	BOILER 1	M	2
3				--			500		500	--				4
5				--				600	600	1	20	EF-1	M	6
7	M	RECEPT. CP MOTOR BOOSTE	1	20	800	800				2	20	SPARE		8
9	M	BOOSTER PUMP	1	20	1200		1200			--				10
11	M	COMPRESSOR MOTOR	1	20	1000			1600	600	1	20	RECEPT	M	12
13	M	COMPETITION MOTOR	1	40	1000	1700			700	1	20	TF-2	M	14
15	M	HWH	1	20	450		1950		1500	1	20	EDH-2	M	16
17	M	HWH	1	20	450			950	500	1	20	FAUCET SENSOR	M	18
19	M	HWH	1	20	240	840			600	1	20	EF-8	M	20
21	M	RECEPT	1	20	1100		1100		1000	1	20	LP MOTOR STARTER	M	22
23	M	BOOSTER PUMP	1	20	1200			2200	1000	1	20	BAS/DDC PANEL	M	24
25	M	SHUNT TRIP	1	20	600	600			--					26
27	M	SP-2	1	20	500		1500		1000	1	20	CEHMICAL FEED RELAYS	M	28
29	M	BACK FLUSH	1	20	450			1450	1000	1	20	LP MOTOR CONTROLLER	M	30
31	M	BACK FLUSH	1	20	450	1650			1200	1	20	CHEMICAL CONTROLLER N	M	32
33	M	BACK FLUSH	1	20	450		1450		1000	1	20	LP FILTER CONTROLLER	M	34
35			1	20				1200	1200	1	20	COMPETITION FILTER CONT	M	36
37	M	LEISURE BOOSTER PUMP	1	20	1000	2000			1000	1	20	BOOSTER PUMP	M	38
39	C	EXISTING LOAD	1	20	500		1100		600	1	20	EDH-1	M	40
41	C	EXISTING LOAD	1	20	650			1350	700	1	20	TF-3	M	42
TOTAL CONNECTED LOAD (A):			72.8			22.5	24.4	26.0	(AMPS/PHASE)					
TOTAL CONNECTED LOAD_SEC 1 (VA):			26,240			8,090	8,800	9,350	(VA/PHASE)					
TOTAL CONNECTED LOAD_SEC 2 (VA):			8,700			2,500	2,200	2,000	(VA/PHASE)					

BOLD INDICATES NEW

PROVIDE ITEMS MARKED BELOW :
- ☐ DOOR-IN-DOOR CONSTRUCTION
- ☐ SHUNT-TRIP ON MAIN DEVICE
- ☐ FEED-THRU LUGS
- ☐ SERVICE NEUTRAL (S/N)
- ☐ ISOLATED GROUND BUS
- ☐ 200% NEUTRAL
- ☐ NEMA 3R
- ☐ OTHER : _____

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C	3,950	11	4,938	14
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R				
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M	26,990	75	27,365	76
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K				
NON-CONTINUOUS LOADS (@100%)	N				
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		30.94		32.30	
TOTAL CONNECTED & DEMAND LOAD (A):		85.88		89.66	

PANELBOARD NAME: MLB

(EXISTING) SECTION 1 — ○ NEW ◉ EXISTING — ○ 1 SEC ◉ 2 SEC — Global Engineering Solutions®

VOLTAGE: **208Y/120V** BUS RATING: **100A** POLES: **42** MIN/MUM.A.I.C. RATING (A): **EXISTING**

PHASE/WIRE: **3 PHASE, 4 WIRE + GROUND** MAIN: **100A MCB** MOUNTING: **SURFACE** SERVICE: **NORMAL**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	M	MAIN ELEV.	3	20	1500	1900			400	1	20	ELEVATOR RECEPT	R	2
3				--	1500		2000		500	2	15	AC-1	M	4
5				--	1500			2000	500		--			6
7	R	ROOF RECEPT	1	20	400	1600			1200	2	30	ACCU-1	M	8
9	M	RTR-2	1	20	500		1700		1200	--				10
11	M	ELEVATOR & CAB	1	20	1000			1400	400	1	20	ROOF RECEPT	R	12
13	N	EXISTING LOAD	1	20	1500	2500			1000	1	20	BAS&DDC PANEL	N	14
15	M	SP-2	1	20	500		1300		800	1	20	EXISTING LOAD	C	16
17	M	EF-9	1	20	900			1700	800	1	20	EXISTING LOAD	C	18
19	M	EDH-3	1	20	1900	2700			800	1	20	EXISTING LOAD	C	20
21	M	DEH-4	1	20	800		1400		800	1	20	EXISTING LOAD	C	22
23	M	TF-4	1	15	250			1050	800	1	20	EXISTING LOAD	C	24
25	M	HUH-1	1	20	250	1050			800	1	20	EXISTING LOAD	C	26
27	C	EXISTING LOAD	1	20	800		1600		800	1	20	EXISTING LOAD	C	28
29	C	EXISTING LOAD	1	20	800			1300	500	1	20	CONTROL PANEL	N	30
31	C	EXISTING LOAD	1	20	800	800					--	SPACE		32
33	C	EXISTING LOAD	1	20	800		800				--	SPACE		34
35		SPACE		--							--	SPACE		36
37	**M**	**CF-A4**	**1**	**20**	**1200**	1200					--	SPACE		38
39	**M**	**CF-A5**	**1**	**20**	**1200**		1200				--	SPACE		40
41	**M**	**CF-A6**	**1**	**20**	**1200**			1200			--	SPACE		42
TOTAL CONNECTED LOAD (A):			84.4			32.6	27.8	24.0	(AMPS/PHASE)					
TOTAL CONNECTED LOAD_SEC 1 (VA):			30,400			11,750	10,000	8,650	(VA/PHASE)					
TOTAL CONNECTED LOAD_SEC 2 (VA):									(VA/PHASE)					

BOLD INDICATES NEW

PROVIDE ITEMS MARKED BELOW :
- ☐ DOOR-IN-DOOR CONSTRUCTION
- ☐ SHUNT-TRIP ON MAIN DEVICE
- ☐ FEED-THRU LUGS
- ☐ SERVICE NEUTRAL (S/N)
- ☐ ISOLATED GROUND BUS
- ☐ 200% NEUTRAL
- ☐ NEMA 3R
- ☐ OTHER : _____

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C	8,800	24	11,000	31
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R	1,200	3	1,200	3
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M	17,400	48	18,525	51
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K				
NON-CONTINUOUS LOADS (@100%)	N	3,000	8	3,000	8
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		30.40		33.73	
TOTAL CONNECTED & DEMAND LOAD (A):		84.38		93.61	

PANELBOARD NAME: LA

(EXISTING) SECTION 2

BUS RATING: **225A** POLES: **+42**

MAIN: **150A MCB**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
43	C	VIDEO SERVICE	1	20	1000	2000			1000	1	20	CONTROL RM	N	44
45	C	SECURITY	1	20	1000		2000		1000	1	20	CONTROL RM	N	46
47	R	EWG	1	20	1000			1800	800	1	20	HEAT TRACE	M	48
49	R	EWG	1	20	1000	1500			500	1	20	EXISTING LOAD	C	50
51		SPARE	1	20			500		500	1	20	EXISTING LOAD	C	52
53	R	RECEPT	1	20	800			806	6	1	20	POPCORN MACH.	K	54
55	M	EXHAUST FOR CHEM RM	1	20	1000	2500			1500	1	20	REFRE.	K	56
57	M	EF1+8	1	20	1000		1000				--	SPACE		58
59	**C**	**SCORE BOARD**	**1**	**20**	**800**			800			--	SPACE		60
61	**C**	**SCORE BOARD**	**1**	**20**	**800**	800					--	SPACE		62
63	**C**	**SCORE BOARD**	**1**	**20**	**800**		800				--	SPACE		64
65		SPACE		--							--	SPACE		66
67		SPACE		--							--	SPACE		68
69		SPACE		--							--	SPACE		70
71		SPACE		--							--	SPACE		72
73		SPACE		--							--	SPACE		74
75		SPACE		--							--	SPACE		76
77		SPACE		--							--	SPACE		78
79		SPACE		--							--	SPACE		80
81		SPACE		--							--	SPACE		82
83		SPACE		--							--	SPACE		84
TOTAL CONNECTED LOAD (A):			40.3			56.6	35.8	28.4	(AMPS/PHASE)					
TOTAL CONNECTED LOAD (VA):			14,506			6,800	4,300	3,406	(VA/PHASE)					

BOLD INDICATES NEW

NOTES:

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C	5,400	15	6,750	56
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R	2,800	8	2,800	23
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M	2,800	8	3,050	25
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K	1,500	4	1,500	12
NON-CONTINUOUS LOADS (@100%)	N	2,000	6	2,000	17
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		14.50		16.10	
TOTAL CONNECTED & DEMAND LOAD (A):		40.25		44.69	

PANELBOARD NAME: LB

(EXISTING) SECTION 2

BUS RATING: **225A** POLES: **+42**

MAIN: **150A MCB**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
43	**R**	**NEW SECURITY DESK RECP**	**1**	**20**	**1000**	1000					--	SPACE		44
45	**R**	**NEW SECURITY DESK RECP**	**1**	**20**	**1000**		1000				--	SPACE		46
47		SPACE		--							--	SPACE		48
49		SPACE		--							--	SPACE		50
51		SPACE		--							--	SPACE		52
53		SPACE		--							--	SPACE		54
55		SPACE		--							--	SPACE		56
57		SPACE		--							--	SPACE		58
59		SPACE		--							--	SPACE		60
61		SPACE		--							--	SPACE		62
63		SPACE		--							--	SPACE		64
65		SPACE		--							--	SPACE		66
67		SPACE		--							--	SPACE		68
69		SPACE		--							--	SPACE		70
71		SPACE		--							--	SPACE		72
73		SPACE		--							--	SPACE		74
75		SPACE		--							--	SPACE		76
77		SPACE		--							--	SPACE		78
79		SPACE		--							--	SPACE		80
81		SPACE		--							--	SPACE		82
83		SPACE		--							--	SPACE		84
TOTAL CONNECTED LOAD (A):			5.6			8.3	8.3		(AMPS/PHASE)					
TOTAL CONNECTED LOAD (VA):			2,000			1,000	1,000		(VA/PHASE)					

BOLD INDICATES NEW

NOTES:

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C				
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R	2,000	6	2,000	17
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M				
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K				
NON-CONTINUOUS LOADS (@100%)	N				
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		2.00		2.00	
TOTAL CONNECTED & DEMAND LOAD (A):		5.55		5.55	

PANELBOARD NAME: MLA

(EXISTING) SECTION 2

BUS RATING: **225A** POLES: **+12**

MAIN: **150A MCB**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
43	C	EXISTING LOAD	1	20	500	1000			500	1	20	EXISTING LOAD	C	44
45	C	EXISTING LOAD	2	20	500		1000		500	1	20	EXISTING LOAD	C	46
47				--	500			800	**300**	**1**	**20**	**DDC CONTROLLER**	**C**	48
49	**M**	**CF-A1**	**1**	**20**	**1200**	1500			**300**	**1**	**20**	**MOTORIZED DAMPER**	**M**	50
51	**M**	**CF-A2**	**1**	**20**	**1200**		1200		--			SPACE		52
53	**M**	**CF-A3**	**1**	**20**	**1200**			1200	--			SPACE		54
TOTAL CONNECTED LOAD (A):			18.6			20.8	18.3	16.7	(AMPS/PHASE)					
TOTAL CONNECTED LOAD (VA):			6,700			2,500	2,200	2,000	(VA/PHASE)					

BOLD INDICATES NEW

NOTES:

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C	2,800	8	3,500	29
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R				
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M	3,900	11	4,200	35
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K				
NON-CONTINUOUS LOADS (@100%)	N				
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):		6.70		7.70	
TOTAL CONNECTED & DEMAND LOAD (A):		18.60		21.37	

PANELBOARD NAME: MLB

(EXISTING) SECTION 2

BUS RATING: **225A** POLES: **+12**

MAIN: **150A MCB**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
43		SPACE	1	20							--	SPACE		44
45		SPACE	1	20							--	SPACE		46
47		SPACE	1	20							--	SPACE		48
49		SPACE	1	20							--	SPACE		50
51		SPACE	1	20							--	SPACE		52
53		SPACE	1	20							--	SPACE		54
TOTAL CONNECTED LOAD (A):									(AMPS/PHASE)					
TOTAL CONNECTED LOAD (VA):									(VA/PHASE)					

BOLD INDICATES NEW

NOTES:

LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
CONTINUOUS LOADS AND LIGHTING (@125%)	C				
RECEPTACLES (1st 10kVA @100% + REST @ 50%)	R				
MECH. LOADS (LARGEST @ 125% + REST @ 100%)	M				
KITCHEN EQUIPMENT (PER NEC TABLE 220.56)	K				
NON-CONTINUOUS LOADS (@100%)	N				
STANDBY LOADS	S				
TOTAL CONNECTED & DEMAND LOAD (kVA):					
TOTAL CONNECTED & DEMAND LOAD (A):					

2 ELECTRICAL PANEL SCHEDULES

SCALE: NOT TO SCALE

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ELECTRICAL PARTIAL RISER DIAGRAM AND PANEL SCHEDULES

DISTRICT OF COLUMBIA — EDDY FUENTES FRANIA — No. 8723 — ELECTRICAL — PROFESSIONAL ENGINEER

PERMIT SET
12/09/2015

REVISIONS

NO.	DESCRIPTION	DATE

E301