



2840 LIBERTY AVENUE
SUITE 403
PITTSBURGH, PA 15222
(412) 932-2044
www.ae7.com

PROFESSIONAL SEAL

Company: ALLEN & SHARIFF
Address: 700 RIVER AVENUE, SUITE 600
PITTSBURGH, PA 15212
Phone Number: 412.322.9280
Email: -
Website: www.allenshariff.com

Company: ITS CORPORATION
Address: 631 IDLEWOOD AVENUE
CARNEGIE, PA 15106
Phone Number: 412.429.1701
Email: -
Website: www.itscorp.net

Company: GUIDE STUDIO
Address: 13110 SHAKER SQUARE, SUITE 101
CLEVELAND, OHIO 44120
Phone Number: 216.921.0750
Email: -
Website: www.guidestudio.com

PROJECT NUMBER: 190427.00

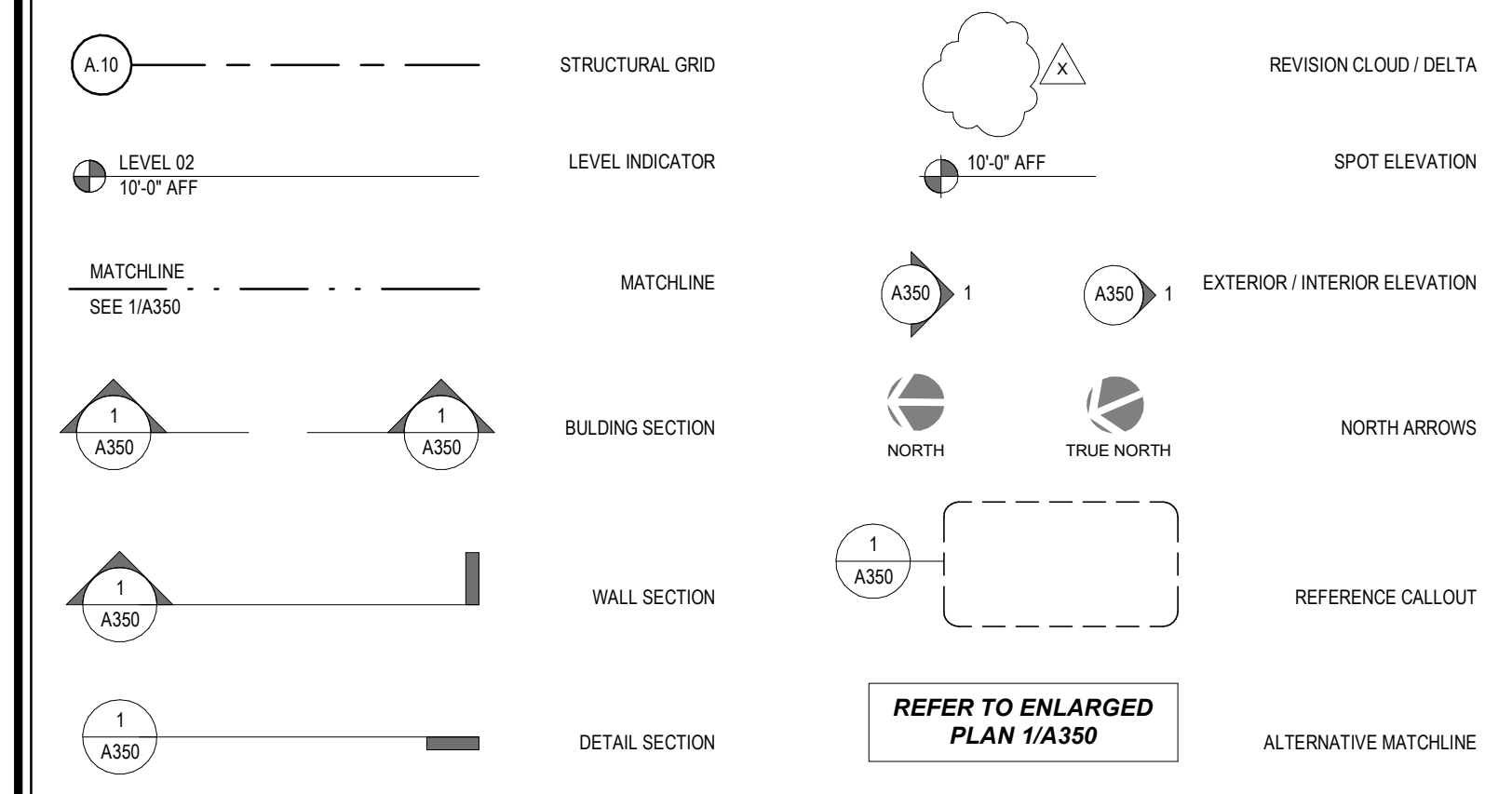
CLIENT / PROJECT INFORMATION:



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NUMBER	SHEET NAME	CURRENT REVISION	NUMBER	SHEET NAME	CURRENT REVISION	NUMBER	SHEET NAME	CURRENT REVISION	NUMBER	SHEET NAME	CURRENT REVISION	NUMBER	SHEET NAME	CURRENT REVISION	NUMBER	SHEET NAME	CURRENT REVISION
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S201R	GENERAL NOTES STRUCTURAL SECTION AND DETAILS	6	ARCHITECTURAL DEMOLITION DRAWINGS			FIRE PROTECTION DRAWINGS			EM304	7TH FLOOR MECHANICAL POWER PLAN	5	ES2.01	SECURITY CARD ACCESS DETAILS	5	ES2.02	SECURITY CAMERA DETAILS	5
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AD105	DEMOLITION FLOOR PLAN - LEVEL 05	5	A156R	OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 06	6	FP003	FIRE PROTECTION SPECIFICATIONS	5	E402	5TH FLOOR FIRE ALARM PLAN	5	TELECOMMUNICATIONS DRAWINGS			T1.01	TELECOM DATA SHEET	5
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AD151	DEMOLITION REFLECTED CEILING PLAN - LEVEL 01	5	A101	OVERALL FLOOR PLAN - LEVEL 01	5	FP203	6TH FLOOR FIRE PROTECTION PLAN	5	E501	ELECTRICAL DETAILS	5						
ARCHITECTURAL DRAWINGS			A105R	OVERALL FLOOR PLAN - LEVEL 05	6	FP204	7TH FLOOR FIRE PROTECTION PLAN	5	E502	ELECTRICAL FIRE ALARM RISER DIAGRAM	5						
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A115	OVERALL REFLECTED CEILING PLAN - LEVEL 05	5				P101	1ST FLOOR PLUMBING DEMO PLAN	5	E703	ELECTRICAL PANEL SCHEDULES	5						
						P201	1ST FLOOR PLUMBING PLAN	5	E704	ELECTRICAL PANEL SCHEDULES	5						
						P202R	5TH FLOOR PLUMBING PLAN	6	E705	ELECTRICAL PANEL SCHEDULES	5						
						P203R	6TH FLOOR PLUMBING PLAN	6									
						P204R	7TH FLOOR PLUMBING PLAN	6									
						P401	PLUMBING DETAILS	5									

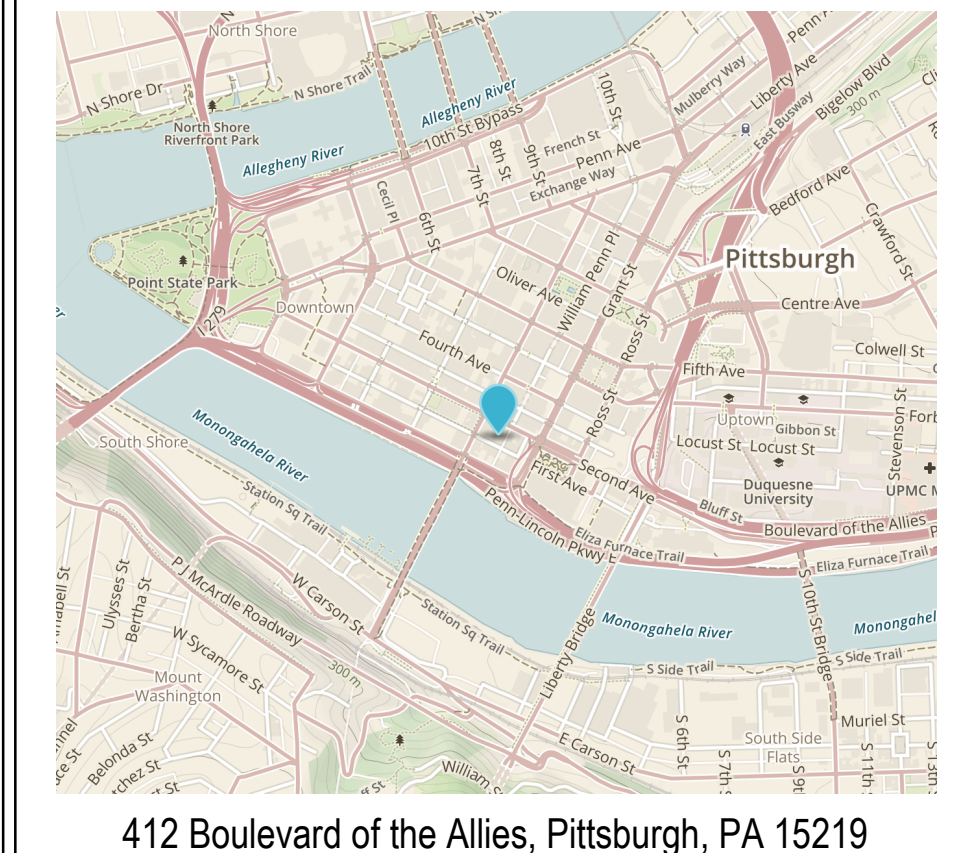
REFERENCE SYMBOLS



ABBREVIATIONS

AB	ANCHOR BOLT	CONT	CONTINUOUS	FIN	FINISHED	MATL	MATERIAL	PTD	PAINTED TILE	UH	UNIT HEATER
ACT	ACoustic CEILING TILE	CONTR	CONTRACTOR	FLR	FLOOR	MAX	MAXIMUM	QT	QUARRY TILE	UNFIN	UNFINISHED
ADJ	ADJUSTABLE	COORD	COORDINATE	FRCP	FIBER REINFORCED GYPSUM PANEL	MECH	MECHANICAL	R	RADIUS	UOD	UNDERSIDE OF DECK
AFF	ABOVE FINISHED FLOOR	CORR	CORRIDOR	FTG	FOOTING	RD	ROOF DRAIN	RD	ROOF DRAIN	UN	UNLESS OTHERWISE NOTED
AGGR	AGGREGATE	CPT	CARPET	FUR	FURNISHED	REC	RECESSED	RECPT	RECEPTACLE	UV	UNIT VENTILATOR
A/C	AIR CONDITIONING	CRS	COURSES	GALV	GALVANIZED	MEP	MECHANICAL, ELECTRICAL, AND PLUMBING	REIN	REINFORCING	VCT	VINYL COMPOSITION TILE
ALT	ALTERNATE	CT	CERAMIC TILE	GB	GRAB BAR	MFR	MANUFACTURER	REIN	REINFORCING	VERT	VERTICAL
ALUM	ALUMINUM	CUFT(CF)	CUBIC FOOT	GC	GENERAL CONTRACTOR	MH	MANHOLE	REQD	REQUIRED	WC	WATER CLOSET
ANOD	ANODIZED	OW	OUTLET	GFC	GROUND FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM	REV	REVISION	WD	WOOD
ATTEN	ATTENUATION	D	DRYER	GFR	GLASS FIBER REINFORCED CONCRETE	MISC	MISCELLANEOUS	RFT	RESILIENT FLOOR TILE	WF	WIDE FLANGE
AUTO	AUTOMATIC	DBL	DOUBLE	GL	GLASS	MO	MASONRY OPENING	RM	ROOM	WP	WORK POINT
AVG	AVERAGE	DEG	DEGREE	GYPS	GYPSUM	NIC	NOT IN CONTRACT	RUB	RUBBER	WT	WEIGHT
B/	BOTTOM OF	DIA	DIAMETER	HAGB	HIGH ABUSE GYPSUM BOARD	NO	NUMBER	RV	ROOF VENT		
BC	BRICK COURSE	DM	DIMENSION	HB	HOSE BIBB	NOM	NOMINAL	REX	REMOVE EXISTING		
BD	BOARD	DNM	DIMENSION	HW	HARDWOOD	NON-COM	NON-COMBUSTIBLE	SEL	SELECT		
BLDG	BUILDING	DIV	DIVISION	HDWR	HARDWARE	OV	OVERALL	SGT	STRUCTURAL GLAZED TILE		
BLK	BLOCK	DW	DISHWASHER	HM	HOLLOW METAL	OC	ON CENTER	SIM	SIMILAR		
BM	BENCHMARK	EJ	EXPANSION JOINT	HORIZ	HORIZONTAL	OD	OUTSIDE DIAMETER	SPEC	SPECIFICATION		
BS	BENCH MARK	EQ	EQUAL	HT	HEIGHT	OFF	OFF	SEL	SELECT		
CFMF	COLD FORMED METAL FRAMING	ELEV	ELEVATION	HW	HOT WATER	OPP	OPPOSITE	SS	STAINLESS STEEL		
CG	CORNER GUARD	ENCL	ENCLOSURE	HWT	HOT WATER TANK	OVHD	OVERHEAD	STD	STANDARD		
CJ	CONTROL JOINT	EQ	EQUAL	ID	INSIDE DIAMETER	PART	PART	STOR	STORAGE		
CL	CENTERLINE	EQUIP	EQUIPMENT	IGU	INSULATED GLAZING UNIT	PL	PLATE	STRUC	STRUCTURAL		
CLG	CEILING	EXIST	EXISTING	INCL	INCLUDED	PLAM	PLASTIC LAMINATE	SUSP CLG	SUSPENDED CEILING		
CLO	CLOSET	EXP BOLT	EXPANSION BOLT	INSUL	INSULATION	PLMB	PLUMBING	TOP OF	TOP OF		
CLR	CLEAR	EWC	ELECTRIC WATER COOLER	JAN	JANITOR	POL	POLISHED	TEL	TELEPHONE		
CMU	CONCRETE MASONRY UNIT	FAB	FABRICATED	JBT	JUNCTION BOX	PREFAB	PREFABRICATED	TEMP	TEMPERED		
COL	COLUMN	FD	FLOOR DRAIN	JN	JOINT	PREFIN	PREFINISHED	TERR	TERRAZZO		
COMP	COMPOSITION	FIN	FINISH	JN	JUNCTION	PREP	PREPARATION	TG	TONGUE AND GROOVE		
CONC	CONCRETE	FE	FIRE EXTINGUISHER	LA	LAMINATE	PROC	PROCEDURE	THK	THICK OR THICKNESS		
CONN	CONNECTION	FHC	FIRE HOSE CABINET	LV	LAVATORY	PROP	PROPERTY	TLT	TOILET		
CONST	CONSTRUCTION	FHC	FIRE HOSE CABINET	MAS	MASONRY	PT	PAIN	TYP	TYPICAL		

PROJECT LOCATION



GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- THE DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTS AND PROJECT SPECIFICATIONS.
- FIELD VERIFY JOB CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT OF DEVIATIONS FROM THE DRAWINGS.
- INSTALL MATERIALS AND PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN RECOMMENDATIONS.
- SUPPORT EQUIPMENT FROM STRUCTURAL MEMBERS. DO NOT SUPPORT FROM DECK UNON.
- GENERAL CONTRACTOR SHALL PROVIDE LINTELS, LOUVERS AND SUPPORTS AT MECHANICAL OPENINGS UNON.
- PAINT LINTELS PRIOR TO INSTALLING DOORS AND WINDOWS.
- FIRE-RETARDANT WOOD BLOCKING SHALL BE INSTALLED FOR WALL MOUNTED ITEMS WHERE REQUIRED.
- USE SOLID CORE BRICK ABOVE RECESSED AREAS TO ACCOMMODATE THE EXTERIOR ARCHITECTURE. REFER TO EXTERIOR ELEVATIONS.

HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219
CONSTRUCTION DOCUMENTS REVISION 3
09/03/2020



200 ROSS STREET
PITTSBURGH, PA 15219
(412) 456-5000
hacp.org

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RESPONSIBILITY MATRIX

AREA	ITEM DESCRIPTION	MATERIAL	INSTALL
STRUCTURAL	All non-DIRTT framing, soffit headers, lighting support, MEP, etc. Structural bracing of DIRTT system to building structure Structural attachment of DIRTT curtain walls to GC walls Backing of GC wall for curtain wall connections All drawings and calculations for DIRTT walls and attachments, including seismic, up to connection points		
MECHANICAL & HVAC	Rough-in and connection of all mechanical & HVAC		
ELECTRICAL (DIRTT POWER)	DIRTT zone box DIRTT zone box to DIRTT j-box Device box & conduit inside DIRTT walls DIRTT j-box: express lines, extender cables, splitters, and power chassis Hardwire connections Electrical receptacles, face plate/trim ring in DIRTT walls Non-DIRTT electrical receptacles, face plate/ trim rings Room lighting (exception - lighting integrated into DIRTT millwork) LED lighting within DIRTT millwork - hardwire - review wiring diagram prior to DIRTT arrival Electrical circuiting labeling on electrical face plates Occupancy sensors, transformers, thermostats, motion sensors, exiting devices and all lighting controls		
PLUMBING	Rough in, stub-up and connection of all plumbing fixtures and pipes In-wall domestic water Bathroom lavatory backing - integrated in DIRTT wall Domestic water final connections Waste water connections - incl. vent, ptrap, drain cover, etc. Toilet fixture, sinks, carriers, and flush valves Toilet & bathroom accessories backing- installed on DIRTT wall		
DATA (DIRTT NETWORKS)	See DIRTT SOW document		
WALLS & DOORS	Fire-rated walls Glazing /Glass (DIRTT walls) Interior DIRTT walls: insulation, frames, face-mounted tiles Door slabs (see DIRTT shop drawing for details) Door pulls Door lever sets Backing for all DIRTT wall-mounted items (DIRTT Madonna) Backing for all dry wall-mounted items		
CEILINGS	Ceiling grid: t-bar grid and tiles Ceiling grid to DIRTT wall hangers DIRTT Bespoke Ceilings		
FLOOR	Carpet or finished floor material Raised floor, subfloor system (if in scope)		
SECURITY EQUIPMENT	Security door hardware Final security wiring to building system Maglocks in door headers Keypad, card-scanners, push button, motion sensor Keypad single gang back box with conduit and 'tile cut out'		
MILLWORK	Toe-kicks Hanger brackets or French cleats Cabinets (see Millwork shops for details and scope) Hardware, pulls, LED lighting within DIRTT cabinets Surfaces and counter top, backsplash, subtops		
INTEGRATED TECHNOLOGY & ACCESSORIES	Imbedded TV within DIRTT wall Power chassis, fan kits Mounting Brackets (embedded or facemounted) Clocks and other visible accessories Accessory or Medical equipment - support brackets only Accessory or Medical equipment		
WALL-MOUNTED TECHNOLOGY & ACCESSORIES	Wall-mounted equipment - support brackets only Wall-mounted equipment - backing (Madonna) Wall-mounted equipment		
HEALTHCARE SPECIFIC	Medgas Plumbing		

GENERAL NOTES

-ANY CASEWORK, CLOSET SHELVING AND COUNTERTOPS DOCUMENTED AS PART OF THESE ARCHITECTURAL DRAWINGS, ARE PART OF THE GC SCOPE OF WORK. BLOCKING LOCATIONS HAVE BEEN PREVIOUSLY COORDINATED WITH THE DIRTT DEMOUNTABLE WALL TEAM. BLOCKING WILL BE PROVIDED AND ADDED AS PART OF THE DIRTT SCOPE.
-THERE WILL BE CASES WHERE COUNTERTOPS AND CASEWORK WILL ABUT OR ATTACH TO THE DIRTT WALL SURFACES.
-THIS SCOPE RESPONSIBILITY MATRIX IS A BASIC GUIDELINE PROVIDED BY THE DIRTT PRODUCT MANUFACTURER. THE HACP PROJECT SHALL USE 4 PRIME CONTRACTORS AS OUTLINED IN THE PROJECT MANUAL.

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RESPONSIBILITY MATRIX

AREA	ITEM DESCRIPTION	MATERIAL	INSTALL
	Medgas Devices (Oxygen, Air, Vacuum, Sliders) Medgas Devices Mounting Brackets Covered Flooring Base Plumbing Chases Infection Prevention Gaskets (DIRTT walls only)		
PERMITS AND DRAWINGS	Permit Application (GC) Permit drawings (architect) DIRTT walls and millwork shop drawings DIRTT Installation drawings and as built		
INSTALLATION AND SITE	Dumpster, recycling bins and disposal fees Forklift with 6 foot forks Scissor Lifts (2) Delivery coordination of trucks and sequencing Delivery labor from DIRTT trucks/site to store location Temporary protection (from damage by other trades) Offsite storage, if needed		
OTHER	In-drywall electrical In-drywall data Drywall-mounted doors and windows (non-DIRTT supplied) Major appliances		

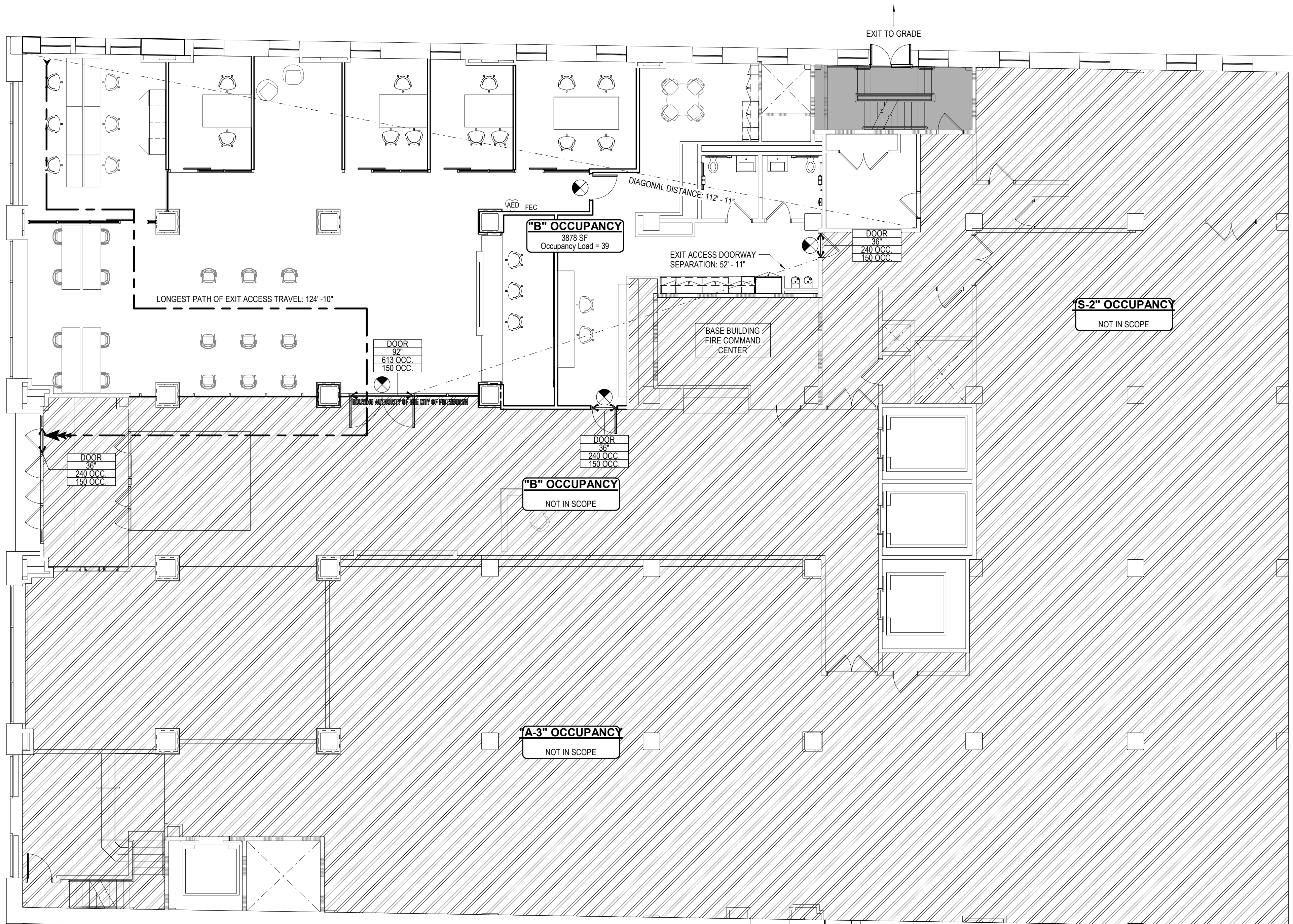
HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #3	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	AE7	JW

SHEET NAME:
SCOPE RESPONSIBILITY MATRIX

TRUE NORTH
G020R
PLAN NORTH



2 OVERALL LIFE SAFETY PLAN - LEVEL 01
1/8" = 1'-0"

APPLICABLE CODES - LEVEL 01

APPLICABLE CODES:
 UNIFORM CONSTRUCTION CODE (UCC), PA ACT 45
 INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
 INTERNATIONAL MECHANICAL CODE (IMC), 2015 EDITION
 INTERNATIONAL PLUMBING CODE (IPC), 2015 EDITION
 INTERNATIONAL FIRE CODE (IFC), 2015 EDITION
 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
 ARTICLE XV OF THE ALLEGHENY COUNTY HEALTH DEPARTMENT'S
 RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE -
 CURRENT EDITION
 NFPA 70 - 2008 ELECTRICAL CODE

ACCESSIBILITY STANDARDS:
 ICC/ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDINGS AND
 FACILITIES
 CHAPTER 11 - 2018 INTERNATIONAL BUILDING CODE
 APPENDIX E - 2018 INTERNATIONAL BUILDING CODE

AUTHORITY HAVING JURISDICTION:
 CITY OF PITTSBURGH - DEPARTMENT OF PERMITS, LICENSES, AND
 INSPECTIONS

CHAPTER 3 - OCCUPANCY CLASSIFICATION

TYPE "B" BUSINESS - 3,878 SF

303.1.2 THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES: A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS, OR LESS THAN 750 SQUARE FEET IN AREA, AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP "B" OCCUPANCY OR AS A PART OF THAT OCCUPANCY.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

403.2.1.2 IN A HIGH-RISE BUILDING, THE FIRE-RESISTANCE RATING OF THE BUILDING ELEMENTS IN TYPE I-B CONSTRUCTION SHALL BE PERMITTED TO BE REDUCED TO THE FIRE-RESISTANCE RATING IN TYPE I-A.

CHAPTER 5 - BUILDING HEIGHT & AREA

TYPE "B" CONSTRUCTION (EXISTING)

ALLOWABLE HEIGHT - 12 STORIES / 180'-0"
 ACTUAL - 9 STORIES / 119'-10"
 ALLOWABLE BUILDING AREA - UL SF/FLOOR
 ACTUAL (LEVEL 01) - 16,434 SF

508.1 WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION 508.2, 508.3, 508.4, OR A COMBINATION OF THESE SECTIONS.

508.3 AREAS/OCCUPANCIES WITHIN SCOPE ARE TO BE CONSIDERED NONSEPARATED OCCUPANCIES IN ACCORDANCE TO THE PROVISIONS SET FORTH IN SECTION 508.3.

CHAPTER 6 - TYPES OF CONSTRUCTION

TYPE "B" CONSTRUCTION (EXISTING)

TABLE 601 PRIMARY STRUCTURE: 1 HOUR
 BEARING WALLS - EXTERIOR: 1 HOUR
 BEARING WALLS - INTERIOR: 1 HOUR
 NON-BEARING WALLS - INTERIOR: 0 HOUR
 FLOOR CONSTRUCTION: 1 HOUR
 ROOF CONSTRUCTION: 1 HOUR

ALL DEMOUNTABLE PARTITIONS ARE TO BE OF NONCOMBUSTIBLE MATERIALS, IN COMPLIANCE WITH CHAPTER 6, SECTION 601 AND SECTION 603.

CHAPTER 8 - INTERIOR FINISHES

803.11 INTERIOR WALL AND CEILING FINISH SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN THAT SPECIFIED IN TABLE 803.11 FOR THE GROUP AND LOCATION DESIGNATED.

TABLE 803.11 OCCUPANCY GROUP B
 EXIT ENCLOSURES/PASSAGEWAYS: B
 CORRIDORS: C
 ROOMS/ENCLOSED SPACES: C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2 AUTOMATIC SPRINKLERS REQUIRED IN LOCATIONS AS REFERENCED IN SECTION 403.3 REGARDING HIGHRISE BUILDINGS. EXISTING SPRINKLERS TO BE ADJUSTED IN COMPLIANCE WITH NFPA-13 STANDARD ON AUTOMATIC SPRINKLERS - GENERAL BUILDING CLASSIFICATION IS LIGHT HAZARD, WITH PORTIONS OF ORDINARY HAZARD GROUP 1.

905.2 STANDPIPE SYSTEM REQUIRED IN BUILDINGS OVER 30 FEET IN HEIGHT - EXISTING TO REMAIN AS INSTALLED IN COMPLIANCE WITH NFPA-14 STANDARD ON STANDPIPE SYSTEMS.

906.1 PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN NEW AND EXISTING GROUP A, AND B OCCUPANCIES.

TABLE 906.1.1
 FIRE EXTINGUISHER - CLASS A FIRE, 2-A RATING
 MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER = 75'-0"

907.1 FIRE ALARM AND DETECTION SYSTEM AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PROVIDED BY BASE BUILDING.

CHAPTER 10 - MEANS OF EGRESS

1004.1.1 OCCUPANCY GROUP B: BUSINESS AREAS - 100 GROSS 3,878 SF / 100 GROSS SF/OCCUPANT = 39 OCCUPANTS

39 OCCUPANTS IN SCOPE (LEVEL 01 ONLY)

1005.3.1 THE TOTAL WIDTH OF MEANS OF EGRESS SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.3 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.2 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

EXCEPTION #1 FOR OTHER THAN GROUP H AND I-2 OCCUPANCIES, THE CAPACITY, IN INCHES, OF MEANS OF EGRESS SHALL BE CALCULATED BY MULTIPLYING BY 0.2 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.15 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

(STAIRWAYS) 64 OCCUPANTS x 0.2" = 12.8" REQUIRED / 46" (EXISTING)
 (OTHERS) 64 OCCUPANTS x 0.15" = 9.6" REQUIRED / 108" PROVIDED

1006.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF TRAVEL EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

TABLE 1006.2.1 OCCUPANCY GROUP B (SPRINKLERED)
 MAXIMUM OCCUPANT LOAD OF SPACE: 49
 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 100'-0"

CHAPTER 10 - MEANS OF EGRESS

1007.1.1 THE SEPARATION DISTANCE BETWEEN TWO EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.

EXCEPTION #2 WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE SHALL NOT BE LESS THAN ONE-THIRD OF THE OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

1009.1 ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS FROM ANY ACCESSIBLE SPACE.

1017.2 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE DISTANCES GIVEN IN TABLE 1017.2.

TABLE 1017.2 OCCUPANCY GROUP B (SPRINKLERED): 300'-0"

1020.1 CORRIDORS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.1.

TABLE 1020.1 CORRIDORS SERVING OCCUPANCY GROUPS B WITH AN OCCUPANT LOAD GREATER THAN 30 IN A BUILDING EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM = 0 HOUR FIRE-RESISTANCE RATING REQUIRED.

1020.4 WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20'-0".

EXCEPTION #2 IN OCCUPANCY GROUP B, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50'-0".

CHAPTER 11 - ACCESSIBILITY

1105.1 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

1109.2 AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL, OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM SHALL BE ACCESSIBLE.

CHAPTER 30 - ELEVATORS AND CONVEYING SYSTEMS

3006.2 ELEVATOR HOISTWAY DOOR OPENINGS SHALL BE PROTECTED IN HIGH-RISE BUILDINGS IN ACCORDANCE WITH SECTION 3006.3.

3006.3.4 THE ELEVATOR HOISTWAY SHALL BE PRESSURIZED IN ACCORDANCE WITH SECTION 909.2.1.

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS

(A)CHD RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV) DELETE 500' FROM IPC 403.3.3 AND REPLACE WITH 300'.

403.3.3 (IPC 2015) IN OCCUPANCIES OTHER THAN COVERED AND OPEN MALL BUILDINGS, THE REQUIRED PUBLIC AND EMPLOYEE TOILET FACILITIES SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW THE SPACE REQUIRED TO BE PROVIDED WITH THE TOILET FACILITIES AND THE PATH OF TRAVEL TO SUCH FACILITIES SHALL NOT EXCEED A DISTANCE OF 500'.

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS (A)CHD RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV) DELETE 500' FROM IPC 403.3.3 AND REPLACE WITH 300'.

403 OCCUPANCY GROUP B
 LEVEL 01: 39 OCCUPANTS
 TOTAL (OCCUPANCY GROUP B): 39 OCCUPANTS IN SCOPE

WATER CLOSETS
 TOILETS (MALE): 19.5 OCCUPANTS @ 2 PER 16-35 OCCUPANTS = 2 TOILETS REQUIRED
 TOILETS (FEMALE): 19.5 OCCUPANTS @ 2 PER 16-35 OCCUPANTS = 2 TOILETS REQUIRED

LAVATORIES
 LAVATORIES (MALE/FEMALE): 39 OCCUPANTS @ 2 PER 26-50 OCCUPANTS = 2 LAVATORIES REQUIRED

DRINKING FOUNTAINS
 DRINKING FOUNTAINS (MALE/FEMALE): 39 OCCUPANTS @ 1 PER 100 OCCUPANTS = 1 DRINKING FOUNTAIN REQUIRED

SERVICE SINKS
 SERVICE SINKS: 1 REQUIRED PER FLOOR

403 OCCUPANCY GROUP A-3
 LOWER LEVEL (OUT OF SCOPE): 230 OCCUPANTS
 TOTAL (OCCUPANCY GROUP A-3): 230 OCCUPANTS

WATER CLOSETS
 TOILETS (MALE): 129 OCCUPANTS @ 1 PER 125 OCCUPANTS = 2 TOILETS REQUIRED
 TOILETS (FEMALE): 129 OCCUPANTS @ 1 PER 65 OCCUPANTS = 2 TOILETS REQUIRED

LAVATORIES
 LAVATORIES (MALE/FEMALE): 258 OCCUPANTS @ 1 PER 200 OCCUPANTS = 2 LAVATORIES REQUIRED

DRINKING FOUNTAINS
 DRINKING FOUNTAINS (MALE/FEMALE): 258 OCCUPANTS @ 1 PER 500 OCCUPANTS = 1 DRINKING FOUNTAIN REQUIRED

SERVICE SINKS
 SERVICE SINKS: 1 REQUIRED PER FLOOR

403 OCCUPANCY GROUP S-2 (OUT OF SCOPE)
 LOWER LEVEL (OUT OF SCOPE): 37 OCCUPANTS
 TOTAL (OCCUPANCY GROUP S-2): 37 OCCUPANTS

WATER CLOSETS
 TOILETS (MALE/FEMALE): 37 OCCUPANTS @ 1 PER 100 OCCUPANTS = 1 TOILETS REQUIRED

LAVATORIES
 LAVATORIES (MALE/FEMALE): 37 OCCUPANTS @ 1 PER 100 OCCUPANTS = 1 LAVATORIES REQUIRED

DRINKING FOUNTAINS
 DRINKING FOUNTAINS (MALE/FEMALE): 37 OCCUPANTS @ 1 PER 1,000 OCCUPANTS = 1 DRINKING FOUNTAIN REQUIRED

SERVICE SINKS
 SERVICE SINKS: 1 REQUIRED

COMBINED TOTAL MINIMUM NUMBER OF REQUIRED FIXTURES FOR LEVEL 01 AND LOWER LEVEL (OUT OF SCOPE)

WATER CLOSETS
 MALE: 4 REQUIRED / 4 PROVIDED
 FEMALE: 4 REQUIRED / 4 PROVIDED
 MALE OR FEMALE: 1 REQUIRED / 1 PROVIDED

LAVATORIES: 5 REQUIRED / 7 PROVIDED

DRINKING FOUNTAINS: 3 REQUIRED / 6 PROVIDED

SERVICE SINKS: 1 REQUIRED PER FLOOR / 1 PROVIDED PER FLOOR

419 (A)CHD RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV) THE NUMBER OF URINALS FOR MALES SHALL BE AT LEAST 50% OF THE TOTAL NUMBER OF WATER CLOSETS REQUIRED FOR MALES. THE NUMBER OF URINALS WHICH ARE USED MAY BE DECREASED BY THE NUMBER OF URINALS WHICH ARE USED, BUT THE NUMBER OF REMAINING WATER CLOSETS SHALL NOT BE LESS THAN 50% OF THE ORIGINAL TABULATED TOTAL.

LIFE SAFETY NOTES

1. AN ASTERISK (*) ON THE IBC OCCUPANCY TAG INDICATES THE AREA CALCULATION IS A ROUND UP GROSS AREA MEASUREMENT FOR THE TRUE REQUIRED OCCUPANCY OF THIS AREA PER LEVEL AS DEFINED IN TABLE 1004.1.1 OF THE INTERNATIONAL BUILDING CODE, REFER TO THE GROSS AREA SCHEDULE.

ALL ALTERATIONS AND CHANGES OF OCCUPANCY MEET THE PRESCRIPTIVE REQUIREMENTS OF THE INTERNATIONAL EXISTING BUILDING CODE 2015 EDITION AND ARE IN COMPLIANCE WITH ALL CODES NOTED IN APPLICABLE CODES TABLE.

OCCUPANCY LEGEND

□ "B" BUSINESS OCCUPANCY
 ▨ "A-2" ASSEMBLY OCCUPANCY
 ▩ OUT OF SCOPE, VARIOUS OCCUPANCIES
 ▭ EGRESS COMPONENT

LIFE SAFETY LEGEND

▬ 1 HR FIRE RESISTANT
 ▬ 2 HR FIRE RESISTANT
 ▬ 3 HR FIRE RESISTANT

SYMBOLS

← EXIT ARROW
 FEC FIRE EXTINGUISHER CABINET
 FE FIRE EXTINGUISHER
 ↔ - EXIT CAPACITY TAG
 DOOR TYPE
 240 OCC MAX ALLOWABLE OCC.
 150 OCC ACTUAL OCC.

← - EGRESS LINE - LONGEST PATH
 ← - EGRESS LINE - COMMON PATH
 ← - EGRESS LINE - "DEAD END" CORRIDOR
 ← - DIAGONAL DISTANCE PATH

Area Name
 150 SF
 Occupancy Load = 10,000

AREA IN SF
 OCCUPANCY LOAD PER IBC TABLE 1004.1.1
 IBC ALLOWABLE AREA PER OCCUPANT

AE7
 2840 LIBERTY AVENUE SUITE 403
 PITTSBURGH, PA 15222
 (412) 932 2044
 www.ae7.com

PROFESSIONAL SEAL
 REGISTERED ARCHITECT
 STATE OF PENNSYLVANIA
 J. J. CRETTEL No. 16010
 J. J. CRETTEL

CLIENT:
Housing Authority of the City of Pittsburgh
 200 ROSS STREET
 PITTSBURGH, PA 15219
 (412) 456-5000
 hapg.org

HACP - Housing Authority of the City of Pittsburgh
 412 Boulevard of the Allies, Pittsburgh, PA 15219

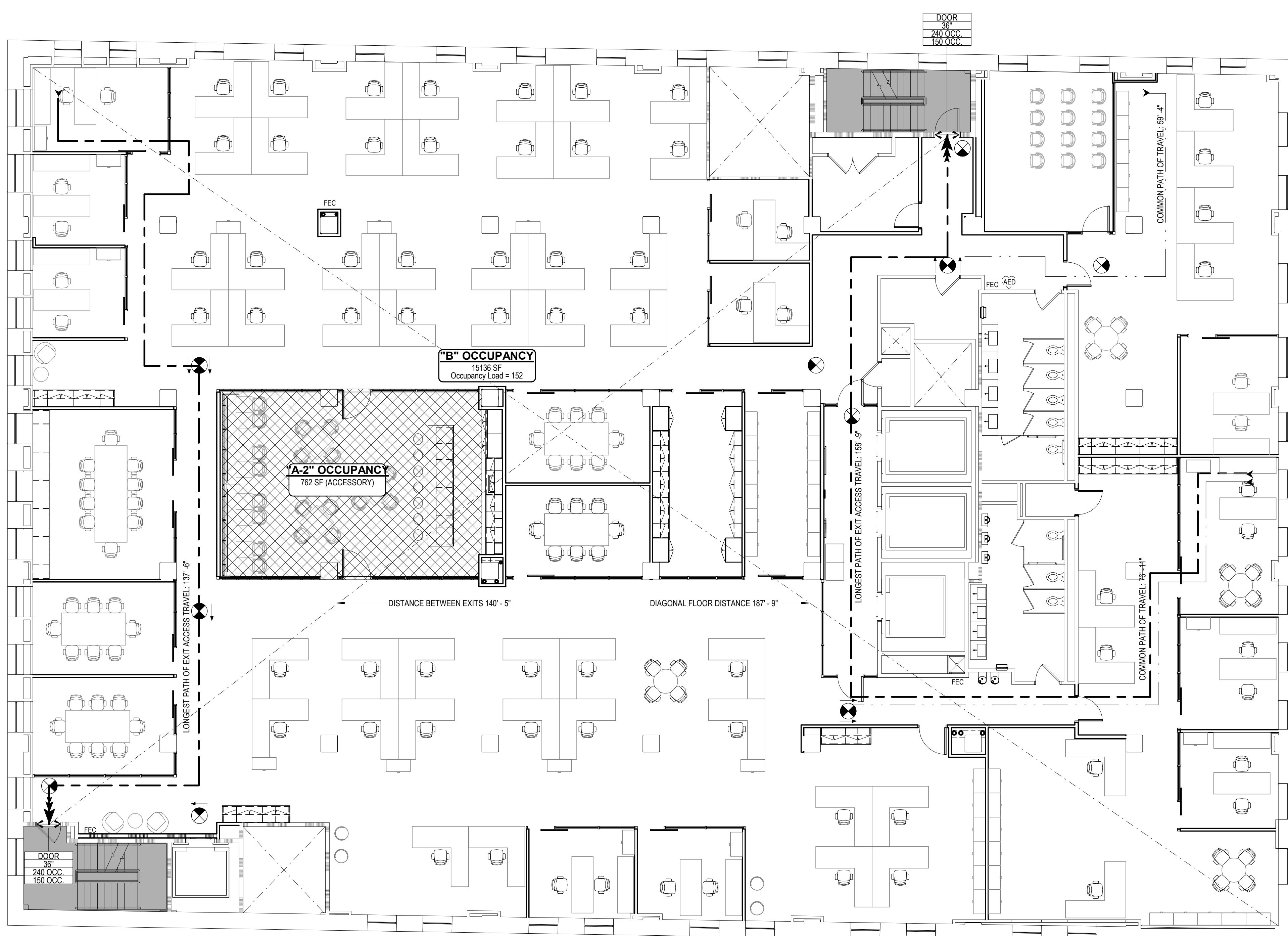
OVERALL LIFE SAFETY PLAN - LEVEL 01

NO.	REVISION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #3	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	DESCRIPTION	DATE

PROJECT NO: 190427.00
 DRAWN BY: AE7
 REVIEWED BY: JW

OVERALL LIFE SAFETY PLAN - LEVEL 01

SHEET NO: G101R



2 OVERALL LIFE SAFETY PLAN - LEVEL 05
1/8" = 1'-0"

APPLICABLE CODES - LEVEL 05

APPLICABLE CODES:
 UNIFORM CONSTRUCTION CODE (UCC), PA ACT 45
 INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
 INTERNATIONAL MECHANICAL CODE (IMC), 2015 EDITION
 INTERNATIONAL PLUMBING CODE (IPC), 2015 EDITION
 INTERNATIONAL FIRE CODE (IFC), 2015 EDITION
 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
 RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE - CURRENT EDITION
 NFPA 70 - 2008 ELECTRICAL CODE

ACCESSIBILITY STANDARDS:
 ICC/ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
 CHAPTER 11 - 2018 INTERNATIONAL BUILDING CODE
 APPENDIX E - 2018 INTERNATIONAL BUILDING CODE

AUTHORITY HAVING JURISDICTION:
 CITY OF PITTSBURGH - DEPARTMENT OF PERMITS, LICENSES, AND INSPECTIONS

CHAPTER 3 - OCCUPANCY CLASSIFICATION

TYPE "B" BUSINESS - 15,136 SF

303.1.2 THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES: A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS, OR LESS THAN 750 SQUARE FEET IN AREA, AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP "B" OCCUPANCY OR AS A PART OF THAT OCCUPANCY.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

403.2.1.1.2 IN A HIGH-RISE BUILDING, THE FIRE-RESISTANCE RATING OF THE BUILDING ELEMENTS IN TYPE II CONSTRUCTION SHALL BE PERMITTED TO BE REDUCED TO THE FIRE-RESISTANCE RATING IN TYPE IIA.

CHAPTER 5 - BUILDING HEIGHT & AREA

TYPE "B" CONSTRUCTION (EXISTING)

ALLOWABLE HEIGHT - 12 STORIES / 180'-0"
 ACTUAL - 9 STORIES / 116'-10"
 ALLOWABLE BUILDING AREA - UL SF/FLOOR
 ACTUAL (LEVEL 05) - 16,434 SF

508.1 WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION 508.2, 508.3, 508.4, OR A COMBINATION OF THESE SECTIONS.

508.3 AREAS/OCCUPANCIES WITHIN SCOPE ARE TO BE CONSIDERED NONSEPARATED OCCUPANCIES IN ACCORDANCE TO THE PROVISIONS SET FORTH IN SECTION 508.2.

CHAPTER 6 - TYPES OF CONSTRUCTION

TYPE "B" CONSTRUCTION (EXISTING)

TABLE 601 PRIMARY STRUCTURE: 1 HOUR
 BEARING WALLS - EXTERIOR: 1 HOUR
 BEARING WALLS - INTERIOR: 1 HOUR
 NON-BEARING WALLS - INTERIOR: 0 HOUR
 FLOOR CONSTRUCTION: 1 HOUR
 ROOF CONSTRUCTION: 1 HOUR

ALL DEMOUNTABLE PARTITIONS ARE TO BE OF NONCOMBUSTIBLE MATERIALS, IN COMPLIANCE WITH CHAPTER 6, SECTION 601 AND SECTION 603.

CHAPTER 8 - INTERIOR FINISHES

803.11 INTERIOR WALL AND CEILING FINISH SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN THAT SPECIFIED IN TABLE 803.11 FOR THE GROUP AND LOCATION DESIGNATED.

TABLE 803.11 OCCUPANCY GROUP B
 CORRIDORS: C
 ROOMS/ENCLOSED SPACES: C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2 AUTOMATIC SPRINKLERS REQUIRED IN LOCATIONS AS REFERENCED IN SECTION 403.3 REGARDING HIGHRISE BUILDINGS. EXISTING SPRINKLERS TO BE ADJUSTED IN COMPLIANCE WITH NFPA-13 STANDARD ON AUTOMATIC SPRINKLERS - GENERAL BUILDING CLASSIFICATION IS LIGHT HAZARD, WITH PORTIONS OF ORDINARY HAZARD GROUP 1.

905.2 STANDPIPE SYSTEM REQUIRED IN BUILDINGS OVER 30 FEET IN HEIGHT - EXISTING TO REMAIN AS INSTALLED IN COMPLIANCE WITH NFPA-14 STANDARD ON STANDPIPE SYSTEMS.

906.1 PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN NEW AND EXISTING GROUP A, AND B OCCUPANCIES.

TABLE 906.3.1
 FIRE EXTINGUISHER - CLASS A FIRE, 2-A RATING
 MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER = 75'-0"

907.1 FIRE ALARM AND DETECTION SYSTEM AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PROVIDED BY BASE BUILDING.

CHAPTER 10 - MEANS OF EGRESS

1004.1.1 OCCUPANCY GROUP B: BUSINESS AREAS - 100 GROSS 15,881 SF / 100 GROSS SF/OCCUPANT = 152 OCCUPANTS
 152 OCCUPANTS IN SCOPE (LEVEL 01 ONLY)

1005.3.1 THE TOTAL WIDTH OF MEANS OF EGRESS SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.3 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.2 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

EXCEPTION #1 FOR OTHER THAN GROUP H AND I2 OCCUPANCIES, THE CAPACITY, IN INCHES, OF MEANS OF EGRESS SHALL BE CALCULATED BY MULTIPLYING BY 0.2 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.15 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

(STAIRWAYS) 152 OCCUPANTS x 0.2" = 30.4" REQUIRED / 92" (EXISTING)

(OTHERS) 152 OCCUPANTS x 0.15" = 22.8" REQUIRED / 68" PROVIDED

1006.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF TRAVEL EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

TABLE 1006.2.1 OCCUPANCY GROUP B (SPRINKLERED)
 MAXIMUM OCCUPANT LOAD OF SPACE - 49
 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE - 100'-0"

1007.1.1 THE SEPARATION DISTANCE BETWEEN TWO EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.

EXCEPTION #2 WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE SHALL NOT BE LESS THAN ONE-THIRD OF THE OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

1009.1 ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS FROM ANY ACCESSIBLE SPACE.

1017.2 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE DISTANCES GIVEN IN TABLE 1017.2.

TABLE 1017.2 OCCUPANCY GROUP B (SPRINKLERED), 300'-0"

1020.1 CORRIDORS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.1.

TABLE 1020.1 CORRIDORS SERVING OCCUPANCY GROUPS B WITH AN OCCUPANT LOAD GREATER THAN 30 IN A BUILDING EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM = 0 HOUR FIRE-RESISTANCE RATING REQUIRED.

1020.4 WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20'-0".

EXCEPTION #2 WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50'-0".

CHAPTER 11 - ACCESSIBILITY

1109.2 AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL, OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM SHALL BE ACCESSIBLE.

CHAPTER 30 - ELEVATORS AND CONVEYING SYSTEMS

3006.2 ELEVATOR HOISTWAY DOOR OPENINGS SHALL BE PROTECTED IN HIGH-RISE BUILDINGS IN ACCORDANCE WITH SECTION 3006.3.

3006.3.4 THE ELEVATOR HOISTWAY SHALL BE PRESSURIZED IN ACCORDANCE WITH SECTION 909.2.1.

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS

(A/C/D RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV)

403.3.3 (IPC 2015) IN OCCUPANCIES OTHER THAN COVERED AND OPEN MALL BUILDINGS, THE REQUIRED PUBLIC AND EMPLOYEE TOILET FACILITIES SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW THE SPACE REQUIRED TO BE PROVIDED WITH THE TOILET FACILITIES AND THE PATH OF TRAVEL TO SUCH FACILITIES SHALL NOT EXCEED A DISTANCE OF 500'.

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS (A/C/D RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV) DELETE 500' FROM IPC 403.3.3 AND REPLACE WITH 300'.

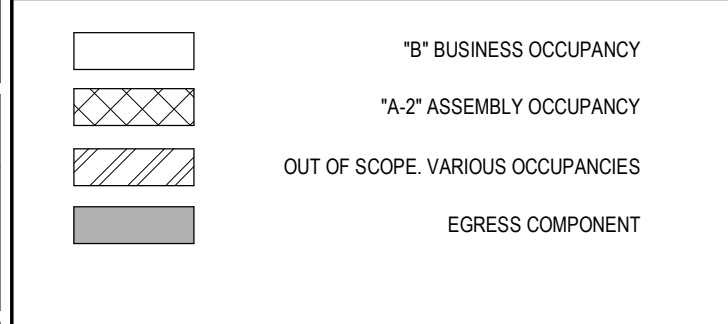
REFER TO G106 "APPLICABLE CODES - LEVEL 06" FOR COMBINED TOTAL MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES FOR LEVEL 05 AND LEVEL 06

LIFE SAFETY NOTES

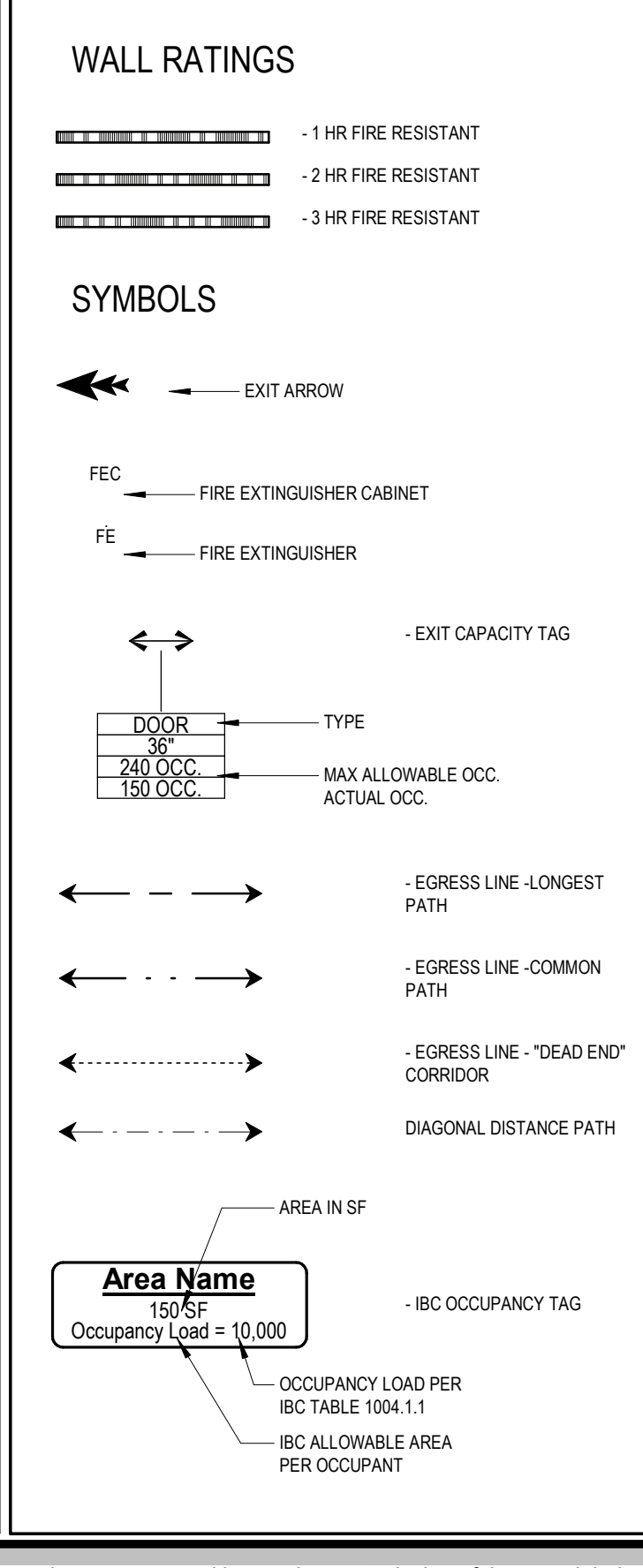
1. AN ASTERISK (*) ON THE IBC OCCUPANCY TAG INDICATES THE AREA CALCULATION IS A ROUND UP GROSS AREA MEASUREMENT FOR THE TRUE REQUIRED OCCUPANCY OF THIS AREA PER LEVEL AS DEFINED IN TABLE 1004.1.1 OF THE INTERNATIONAL BUILDING CODE, REFER TO THE GROSS AREA SCHEDULE.

ALL ALTERATIONS AND CHANGES OF OCCUPANCY MEET THE PRESCRIPTIVE REQUIREMENTS OF THE INTERNATIONAL EXISTING BUILDING CODE 2015 EDITION AND ARE IN COMPLIANCE WITH ALL CODES NOTED IN APPLICABLE CODES TABLE.

OCCUPANCY LEGEND



LIFE SAFETY LEGEND



2840 LIBERTY AVENUE SUITE 403
 PITTSBURGH, PA 15222
 (412) 932 2044
 www.ae7.com

PROFESSIONAL SEAL

JEFFREY C. METZLER

CONSULTANT

CLIENT

200 ROSS STREET
 PITTSBURGH, PA 15219
 (412) 456-5000
 hapg.org

HACP - Housing Authority of the City of Pittsburgh
 412 Boulevard of the Allies, Pittsburgh, PA 15219

ADDENDUM #	DATE
6	02/10/2021
5	09/03/2020
4	07/30/2020
3	07/09/2020
2	05/22/2020
1	01/23/2020

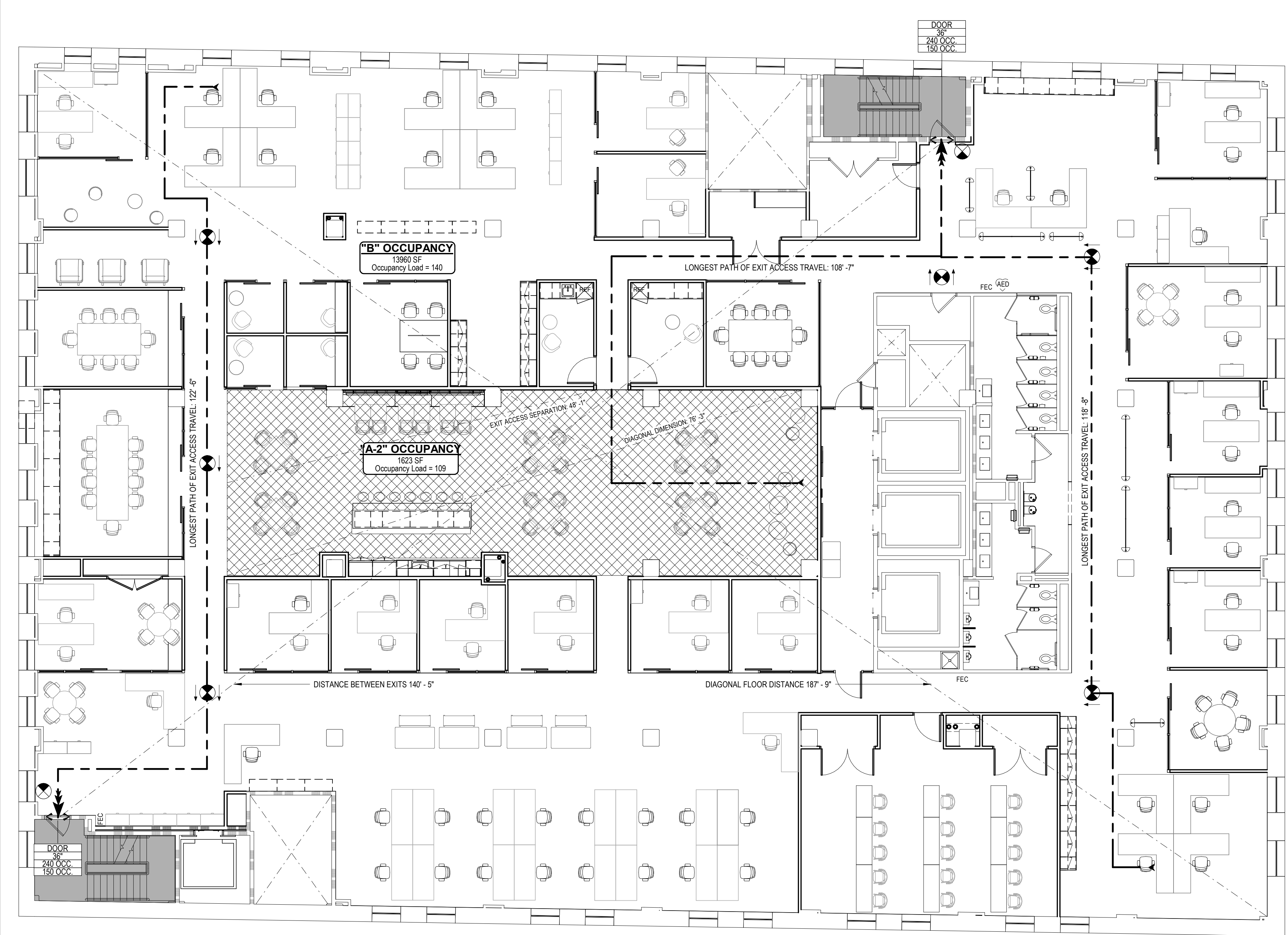
PROJECT ISSUANCE

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	AE7	JW

SHEET NAME: OVERALL LIFE SAFETY PLAN - LEVEL 05

TRUE NORTH

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APPLICABLE CODES - LEVEL 06

APPLICABLE CODES:
 UNIFORM CONSTRUCTION CODE (UCC), PA ACT 45
 INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
 INTERNATIONAL MECHANICAL CODE (IMC), 2015 EDITION
 INTERNATIONAL PLUMBING CODE (IPC), 2015 EDITION
 INTERNATIONAL FIRE CODE (IFC), 2015 EDITION
 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
 ARTICLE XV OF THE ALLEGHENY COUNTY HEALTH DEPARTMENT'S
 RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE -
 CURRENT EDITION
 NFPA 70 - 2008 ELECTRICAL CODE

ACCESSIBILITY STANDARDS:
 ICC/ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDINGS AND
 FACILITIES
 CHAPTER 11 - 2018 INTERNATIONAL BUILDING CODE
 APPENDIX E - 2018 INTERNATIONAL BUILDING CODE

AUTHORITY HAVING JURISDICTION:
 CITY OF PITTSBURGH - DEPARTMENT OF PERMITS, LICENSES, AND
 INSPECTIONS

CHAPTER 3 - OCCUPANCY CLASSIFICATION

TYPE "B" BUSINESS - 13,960 SF
 TYPE "A-2" ASSEMBLY - 1,623 SF

302.1.2 THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES: A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS, OR LESS THAN 750 SQUARE FEET IN AREA, AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP "B" OCCUPANCY OR AS A PART OF THAT OCCUPANCY.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

403.2.1.2 IN A HIGH-RISE BUILDING, THE FIRE-RESISTANCE RATING OF THE BUILDING ELEMENTS IN TYPE IIB CONSTRUCTION SHALL BE PERMITTED TO BE REDUCED TO THE FIRE-RESISTANCE RATING IN TYPE IIA.

CHAPTER 5 - BUILDING HEIGHT & AREA

TYPE "B" CONSTRUCTION (EXISTING)
 ALLOWABLE HEIGHT - 12 STORIES / 180' - 0"
 ACTUAL - 9 STORIES / 119' - 10"
 ALLOWABLE BUILDING AREA - UL SF/FLOOR
 ACTUAL (LEVEL 06) - 16,434 SF

508.1 WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION 508.2, 508.3, 508.4, OR A COMBINATION OF THESE SECTIONS.

508.3 AREAS/OCCUPANCIES WITHIN SCOPE ARE TO BE CONSIDERED NONSEPARATED OCCUPANCIES IN ACCORDANCE TO THE PROVISIONS SET FORTH IN SECTION 508.3.

CHAPTER 6 - TYPES OF CONSTRUCTION

TYPE "B" CONSTRUCTION (EXISTING)

TABLE 601 PRIMARY STRUCTURE: 1 HOUR
 BEARING WALLS - EXTERIOR: 1 HOUR
 BEARING WALLS - INTERIOR: 1 HOUR
 NON-BEARING WALLS - INTERIOR: 0 HOUR
 FLOOR CONSTRUCTION: 1 HOUR
 ROOF CONSTRUCTION: 1 HOUR

ALL DEMOUNTABLE PARTITIONS ARE TO BE OF NONCOMBUSTIBLE MATERIALS, IN COMPLIANCE WITH CHAPTER 6, SECTION 601 AND SECTION 603.

CHAPTER 8 - INTERIOR FINISHES

803.11 INTERIOR WALL AND CEILING FINISH SHALL HAVE A FLMAE SPREAD INDEX NOT GREATER THAN THAT SPECIFIED IN TABLE 803.11 FOR THE GROUP AND LOCATION DESIGNATED.

TABLE 803.11 OCCUPANCY GROUP B
 EXIT ENCLOSURES/PASSAGEWAYS: B
 CORRIDORS: C
 ROOMS/ENCLOSED SPACES: C

TABLE 803.11 OCCUPANCY GROUP A-2
 EXIT ENCLOSURES/PASSAGEWAYS: B
 CORRIDORS: B
 ROOMS/ENCLOSED SPACES: C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2 AUTOMATIC SPRINKLERS REQUIRED IN LOCATIONS AS REFERENCED IN SECTION 903.3 REGARDING HIGH-RISE BUILDINGS. EXISTING SPRINKLERS TO BE ADJUSTED IN COMPLIANCE WITH NFPA-13 STANDARD ON AUTOMATIC SPRINKLERS - GENERAL BUILDING CLASSIFICATION IS LIGHT HAZARD, WITH PORTIONS OF ORDINARY HAZARD GROUP 1.

905.2 STANDPIPE SYSTEM REQUIRED IN BUILDINGS OVER 30 FEET IN HEIGHT - EXISTING TO REMAIN AS INSTALLED IN COMPLIANCE WITH NFPA-14 STANDARD ON STANDPIPE SYSTEMS.

906.1 PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN NEW AND EXISTING GROUP A, AND B OCCUPANCIES.

TABLE 906.1
 FIRE EXTINGUISHER - CLASS A FIRE, 2-A RATING
 MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER = 75'-0"

907.1 FIRE ALARM AND DETECTION SYSTEM AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PROVIDED BY BASE BUILDING.

CHAPTER 10 - MEANS OF EGRESS

1004.1.1 OCCUPANCY GROUP B: BUSINESS AREAS - 100 GROSS
 13,960 SF / 100 GROSS SF/OCCUPANT = 140 OCCUPANTS
 OCCUPANCY GROUP A-2: ASSEMBLY WITHOUT FIXED SEATING (UNCONCENTRATED) - 15 NET
 1,623 SF / 15 NET SF/OCCUPANT = 109 OCCUPANTS
 249 OCCUPANTS IN SCOPE (LEVEL 01 ONLY)

1005.3.1 THE TOTAL WIDTH OF MEANS OF EGRESS SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.3 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.2 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

EXCEPTION #1 FOR OTHER THAN GROUP H AND I-2 OCCUPANCIES, THE CAPACITY, IN INCHES, OF MEANS OF EGRESS SHALL BE CALCULATED BY MULTIPLYING THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF TRAVEL EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1

(STAIRWAYS) 249 OCCUPANTS x 0.2" = 49.8" REQUIRED / 92" (EXISTING)

(OTHERS) 249 OCCUPANTS x 0.15" = 37.35" REQUIRED / 68" PROVIDED

1006.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF TRAVEL EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

CHAPTER 10 - MEANS OF EGRESS

TABLE 1006.2.1 OCCUPANCY GROUP B (SPRINKLERED)
 MAXIMUM OCCUPANT LOAD OF SPACE: 49
 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 100'-0"

OCCUPANCY GROUP A-2 (SPRINKLERED)
 MAXIMUM OCCUPANT LOAD OF SPACE: 49
 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 75'-0"

1017.1 THE SEPARATION DISTANCE BETWEEN TWO EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.

EXCEPTION #2 WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE SHALL NOT BE LESS THAN ONE-THIRD OF THE OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

1009.1 ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS FROM ANY ACCESSIBLE SPACE

1017.2 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE DISTANCES GIVEN IN TABLE 1017.2.

TABLE 1017.2 OCCUPANCY GROUP B (SPRINKLERED): 300'-0"
 OCCUPANCY GROUP A-2 (SPRINKLERED): 250'-0"

1020.1 CORRIDORS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.1.

TABLE 1020.1 CORRIDORS SERVING OCCUPANCY GROUPS A AND B WITH AN OCCUPANT LOAD GREATER THAN 30 IN A BUILDING EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM - 0 HOUR FIRE-RESISTANCE RATING REQUIRED.

1020.4 WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20'-0".

CHAPTER 11 - ACCESSIBILITY

1109.2 AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL, OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM SHALL BE ACCESSIBLE.

CHAPTER 30 - ELEVATORS AND CONVEYING SYSTEMS

3006.2 ELEVATOR HOISTWAY DOOR OPENINGS SHALL BE PROTECTED IN HIGH-RISE BUILDINGS IN ACCORDANCE WITH SECTION 3006.3.

3006.3.4 THE ELEVATOR HOISTWAY SHALL BE PRESSURIZED IN ACCORDANCE WITH SECTION 909.2.1.

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS
 (A/C/D RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV)

403 OCCUPANCY GROUP B
 LEVEL 05: 151 OCCUPANTS
 LEVEL 06: 140 OCCUPANTS
 TOTAL (OCCUPANCY GROUP B): 291 OCCUPANTS IN SCOPE

WATER CLOSETS
 TOILETS (MALE): 146 OCCUPANTS @ 6 PER 111-150 OCCUPANTS = 6 TOILETS REQUIRED
 TOILETS (FEMALE): 146 OCCUPANTS @ 6 PER 111-150 OCCUPANTS = 6 TOILETS REQUIRED

LAVATORIES
 LAVATORIES (MALE/FEMALE): 291 OCCUPANTS @ 5 PER 151-200 OCCUPANTS + 1 PER 80 OCCUPANTS OVER 200 OCCUPANTS = 7 LAVATORIES REQUIRED

DRINKING FOUNTAINS
 DRINKING FOUNTAINS (MALE/FEMALE): 291 OCCUPANTS @ 1 PER 100 OCCUPANTS = 3 DRINKING FOUNTAIN REQUIRED

SERVICE SINKS
 SERVICE SINKS: 1 REQUIRED PER FLOOR

403 OCCUPANCY GROUP A-2
 LEVEL 06: 109 OCCUPANTS
 TOTAL (OCCUPANCY GROUP A-2): 109 OCCUPANTS

WATER CLOSETS
 TOILETS (MALE): 55 OCCUPANTS @ 3 PER 51-100 OCCUPANTS = 3 TOILETS REQUIRED
 TOILETS (FEMALE): 55 OCCUPANTS @ 3 PER 51-100 OCCUPANTS = 3 TOILETS REQUIRED

LAVATORIES
 LAVATORIES (MALE/FEMALE): 109 OCCUPANTS @ 1 PER 75 OCCUPANTS = 2 LAVATORIES REQUIRED

DRINKING FOUNTAINS
 DRINKING FOUNTAINS (MALE/FEMALE): 109 OCCUPANTS @ 1 PER 500 OCCUPANTS = 1 DRINKING FOUNTAIN REQUIRED

SERVICE SINKS
 SERVICE SINKS: 1 REQUIRED PER FLOOR

COMBINED TOTAL MINIMUM NUMBER OF REQUIRED FIXTURES FOR LEVEL 05 AND LEVEL 06

WATER CLOSETS
 MALE: 9 REQUIRED / 12 PROVIDED (6 PER FLOOR)
 FEMALE: 9 REQUIRED / 10 PROVIDED (5 PER FLOOR)

LAVATORIES: 9 REQUIRED / 16 PROVIDED

DRINKING FOUNTAINS: 4 REQUIRED / 4 PROVIDED

SERVICE SINKS: 1 REQUIRED PER FLOOR / 1 PROVIDED PER FLOOR

419 (A/C/D RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV) THE NUMBER OF URINALS FOR MALES SHALL BE AT LEAST 50% OF THE TOTAL NUMBER OF WATER CLOSETS REQUIRED FOR MALES. THE NUMBER OF WATER CLOSETS MAY BE DECREASED BY THE NUMBER OF URINALS WHICH ARE USED, BUT THE NUMBER OF REMAINING WATER CLOSETS SHALL NOT BE LESS THAN 50% OF THE ORIGINAL TABULATED TOTAL.

LIFE SAFETY NOTES

1. AN ASTERISK (*) ON THE IBC OCCUPANCY TAG INDICATES THE AREA CALCULATION IS A ROUND UP GROSS AREA MEASUREMENT FOR THE TRUE REQUIRED OCCUPANCY OF THIS AREA PER LEVEL AS DEFINED IN TABLE 1004.1.1 OF THE INTERNATIONAL BUILDING CODE, REFER TO THE GROSS AREA SCHEDULE.

ALL ALTERATIONS AND CHANGES OF OCCUPANCY MEET THE PRESCRIPTIVE REQUIREMENTS OF THE INTERNATIONAL EXISTING BUILDING CODE 2015 EDITION AND ARE IN COMPLIANCE WITH ALL CODES NOTED IN APPLICABLE CODES TABLE.

OCCUPANCY LEGEND

"B" BUSINESS OCCUPANCY
 "A-2" ASSEMBLY OCCUPANCY
 OUT OF SCOPE, VARIOUS OCCUPANCIES
 EGRESS COMPONENT

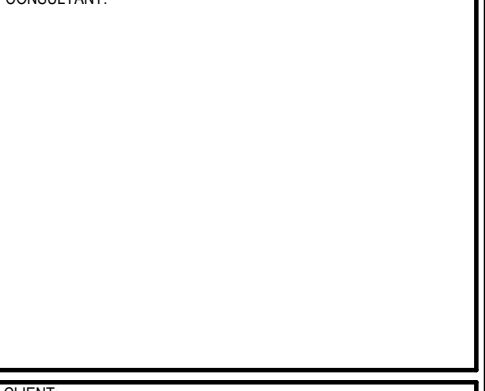
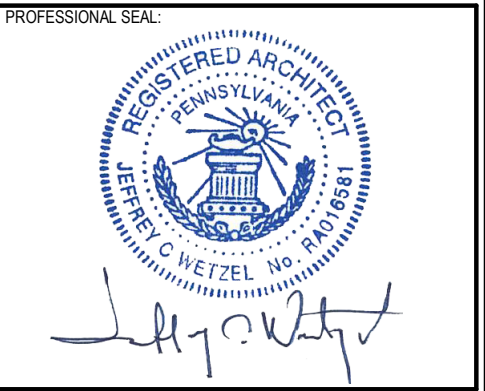
LIFE SAFETY LEGEND

WALL RATINGS

1 HR FIRE RESISTANT
 2 HR FIRE RESISTANT
 3 HR FIRE RESISTANT

SYMBOLS

← EXIT ARROW
 FEC - FIRE EXTINGUISHER CABINET
 FE - FIRE EXTINGUISHER
 ← - EXIT CAPACITY TAG
 DOOR - TYPE
 240 OCC - MAX ALLOWABLE OCC. ACTUAL OCC.
 150 OCC - IBC OCCUPANCY TAG
 AREA IN SF
 OCCUPANCY LOAD PER IBC TABLE 1004.1
 IBC ALLOWABLE AREA PER OCCUPANT



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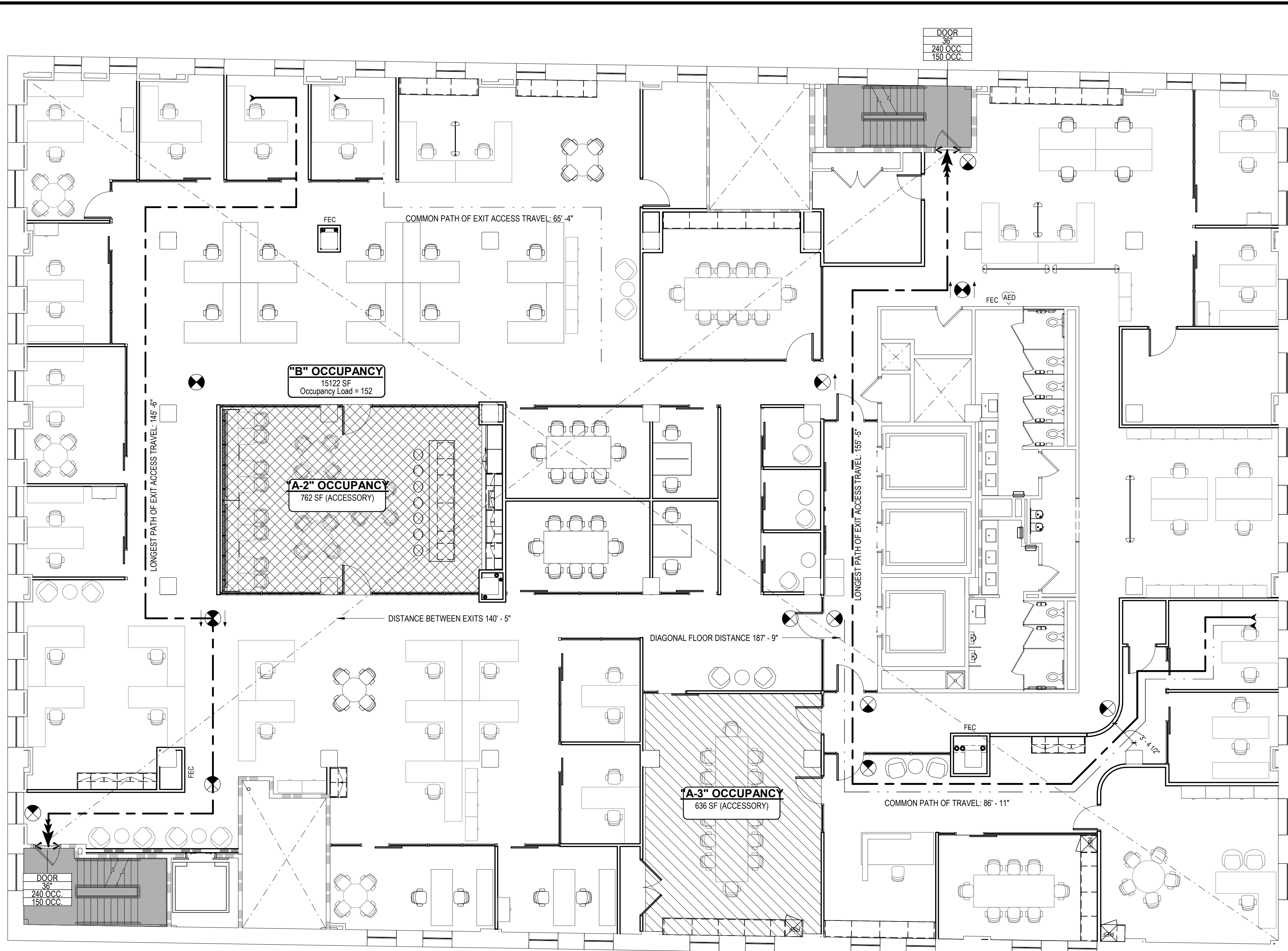
2 OVERALL LIFE SAFETY PLAN - LEVEL 06
 1/8" = 1'-0"

ADDENDUM #	DATE
6	02/10/2021
5	09/03/2020
4	07/30/2020
3	07/09/2020
2	05/22/2020
1	01/23/2020
#	DATE

PROJECT NO.	DRAWN BY	REVIEWED BY
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SHEET NAME:	OVERALL LIFE SAFETY PLAN - LEVEL 06	
SHEET NO.:	G106R	

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190427.00	AE7	JW
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SHEET NO.:	G106R	

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2 OVERALL LIFE SAFETY PLAN - LEVEL 07
1/8" = 1'-0"

APPLICABLE CODES - LEVEL 07

APPLICABLE CODES:
UNIFORM CONSTRUCTION CODE (UCC), PA ACT 45
INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION
INTERNATIONAL MECHANICAL CODE (IMC), 2015 EDITION
INTERNATIONAL PLUMBING CODE (IPC), 2015 EDITION
INTERNATIONAL FIRE CODE (IFC), 2015 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2015 EDITION
ARTICLE XV OF THE ALLEGHENY COUNTY HEALTH DEPARTMENT'S
RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE -
CURRENT EDITION
NFPA 70 - 2008 ELECTRICAL CODE

ACCESSIBILITY STANDARDS:
ICC/ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDINGS AND
FACILITIES
CHAPTER 11 - 2018 INTERNATIONAL BUILDING CODE
APPENDIX E - 2018 INTERNATIONAL BUILDING CODE

AUTHORITY HAVING JURISDICTION:
CITY OF PITTSBURGH - DEPARTMENT OF PERMITS, LICENSES, AND
INSPECTIONS

CHAPTER 3 - OCCUPANCY CLASSIFICATION

TYPE "B" BUSINESS - 15,122 SF

303.1.2 THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES: A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS, OR LESS THAN 750 SQUARE FEET IN AREA, AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP "B" OCCUPANCY OR AS A PART OF THAT OCCUPANCY.

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

403.2.1.1.2 IN A HIGH-RISE BUILDING, THE FIRE-RESISTANCE RATING OF THE BUILDING ELEMENTS IN TYPE B CONSTRUCTION SHALL BE PERMITTED TO BE REDUCED TO THE FIRE-RESISTANCE RATING IN TYPE IA.

CHAPTER 5 - BUILDING HEIGHT & AREA

TYPE "B" CONSTRUCTION (EXISTING)

ALLOWABLE HEIGHT - 12 STORIES / 180' - 0"
ACTUAL - 9 STORIES / 116' - 10"
ALLOWABLE BUILDING AREA - UL SF/FLOOR
ACTUAL (LEVEL 07) - 16,434 SF

508.1 WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY GROUP, THE BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION 508.2, 508.3, 508.4, OR A COMBINATION OF THESE SECTIONS.

508.3 AREAS/OCCUPANCIES WITHIN SCOPE ARE TO BE CONSIDERED NONSEPARATED OCCUPANCIES IN ACCORDANCE TO THE PROVISIONS SET FORTH IN SECTION 508.2.

CHAPTER 6 - TYPES OF CONSTRUCTION

TYPE "B" CONSTRUCTION (EXISTING)

TABLE 601 PRIMARY STRUCTURE: 1 HOUR
BEARING WALLS - EXTERIOR: 1 HOUR
BEARING WALLS - INTERIOR: 1 HOUR
NON-BEARING WALLS - INTERIOR: 0 HOUR
FLOOR CONSTRUCTION: 1 HOUR
ROOF CONSTRUCTION: 1 HOUR

ALL DEMOUNTABLE PARTITIONS ARE TO BE OF NONCOMBUSTIBLE MATERIALS, IN COMPLIANCE WITH CHAPTER 6, SECTION 601 AND SECTION 603.

CHAPTER 8 - INTERIOR FINISHES

803.11 INTERIOR WALL AND CEILING FINISH SHALL HAVE A FLAME SMOKE RATING NOT GREATER THAN THAT SPECIFIED IN TABLE 803.11 FOR THE GROUP AND LOCATION DESIGNATED.

TABLE 803.11 OCCUPANCY GROUP B
EXIT ENCLOSURES/PASSAGEWAYS: B
CORRIDORS: C
ROOMS/ENCLOSED SPACES: C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2 AUTOMATIC SPRINKLERS REQUIRED IN LOCATIONS AS REFERENCED IN SECTION 903.3 REGARDING HIGHRISE BUILDINGS. EXISTING SPRINKLERS TO BE ADJUSTED IN COMPLIANCE WITH NFPA-13 STANDARD ON AUTOMATIC SPRINKLERS - GENERAL BUILDING CLASSIFICATION IS LIGHT HAZARD, WITH PORTIONS OF ORDINARY HAZARD GROUP 1.

905.2 STANDPIPE SYSTEM REQUIRED IN BUILDINGS OVER 30 FEET IN HEIGHT - EXISTING TO REMAIN AS INSTALLED IN COMPLIANCE WITH NFPA-14 STANDARD ON STANDPIPE SYSTEMS.

906.1 PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN NEW AND EXISTING GROUP A AND B OCCUPANCIES.

TABLE 906.1
FIRE EXTINGUISHER - CLASS A FIRE, 2-A RATING
MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER = 75'-0"

907.1 FIRE ALARM AND DETECTION SYSTEM AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PROVIDED BY BASE BUILDING.

CHAPTER 10 - MEANS OF EGRESS

1004.1.1 OCCUPANCY GROUP B: BUSINESS AREAS - 100 GROSS 15,122 SF / 100 GROSS SF/OCCUPANT = 152 OCCUPANTS
152 OCCUPANTS IN SCOPE (LEVEL 7 ONLY)

1005.3.1 THE TOTAL WIDTH OF MEANS OF EGRESS SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.3 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.2 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

EXCEPTION #1 FOR OTHER THAN GROUP H AND I-2 OCCUPANCIES, THE CAPACITY, IN INCHES, OF MEANS OF EGRESS SHALL BE CALCULATED BY MULTIPLYING BY 0.2 INCH PER OCCUPANT FOR STAIRWAYS AND BY 0.15 INCH PER OCCUPANT FOR OTHER EGRESS COMPONENTS.

(STAIRWAYS) 152 OCCUPANTS x 0.2" = 30.4" REQUIRED / 52" (EXISTING)

(OTHERS) 152 OCCUPANTS x 0.15" = 22.8" REQUIRED / 68" PROVIDED

1006.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF TRAVEL EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.

CHAPTER 10 - MEANS OF EGRESS

TABLE 1006.2.1 OCCUPANCY GROUP B (SPRINKLERED)
MAXIMUM OCCUPANT LOAD OF SPACE: 49
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 100'-0"

1007.1.1 THE SEPARATION DISTANCE BETWEEN TWO EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED.

EXCEPTION #2 WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE SHALL NOT BE LESS THAN ONE-THIRD OF THE OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

1009.1 ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS FROM ANY ACCESSIBLE SPACE.

1017.2 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE DISTANCES GIVEN IN TABLE 1017.2.

TABLE 1017.2 OCCUPANCY GROUP B (SPRINKLERED): 300'-0"

1020.1 CORRIDORS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.1.

TABLE 1020.1 CORRIDORS SERVING OCCUPANCY GROUPS B WITH AN OCCUPANT LOAD GREATER THAN 30 IN A BUILDING EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM - 0 HOUR FIRE-RESISTANCE RATING REQUIRED.

1020.4 WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20'-0".

EXCEPTION #2 IN OCCUPANCY GROUP B, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50'-0".

CHAPTER 11 - ACCESSIBILITY

1109.2 AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL, OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM SHALL BE ACCESSIBLE.

CHAPTER 30 - ELEVATORS AND CONVEYING SYSTEMS

3006.2 ELEVATOR HOISTWAY DOOR OPENINGS SHALL BE PROTECTED IN HIGH-RISE BUILDINGS IN ACCORDANCE WITH SECTION 3006.2.

3006.3.4 THE ELEVATOR HOISTWAY SHALL BE PRESSURIZED IN ACCORDANCE WITH SECTION 909.2.1.

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS
(A/C/D RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV)

403 OCCUPANCY GROUP B
LEVEL 07: 152 OCCUPANTS
TOTAL (OCCUPANCY GROUP B): 152 OCCUPANTS IN SCOPE

WATER CLOSETS
TOILETS (MALE): 76 OCCUPANTS @ 4 PER 56-80 OCCUPANTS + 4 REQUIRED / 6 PROVIDED
TOILETS (FEMALE): 76 OCCUPANTS @ 4 PER 56-80 OCCUPANTS = 4 REQUIRED / 5 PROVIDED

LAVATORIES
LAVATORIES (MALE/FEMALE): 152 OCCUPANTS @ 5 PER 151-200 OCCUPANTS = 5 REQUIRED / 8 PROVIDED

DRINKING FOUNTAINS
DRINKING FOUNTAINS (MALE/FEMALE): 152 OCCUPANTS @ 1 PER 100 OCCUPANTS = 2 REQUIRED / 2 PROVIDED

SERVICE SINKS
SERVICE SINKS: 1 REQUIRED PER FLOOR / 1 PROVIDED

419 (A/C/D RULES AND REGULATIONS FOR PLUMBING AND BUILDING DRAINAGE, ARTICLE XV) THE NUMBER OF URINALS FOR MALES SHALL BE AT LEAST 50% OF THE TOTAL NUMBER OF WATER CLOSETS REQUIRED FOR MALES. THE NUMBER OF WATER CLOSETS MAY BE DECREASED BY THE NUMBER OF URINALS WHICH ARE USED, BUT THE NUMBER OF REMAINING WATER CLOSETS SHALL NOT BE LESS THAN 50% OF THE ORIGINAL TABULATED TOTAL.

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ALL ALTERATIONS AND CHANGES OF OCCUPANCY MEET THE PRESCRIPTIVE REQUIREMENTS OF THE INTERNATIONAL EXISTING BUILDING CODE 2015 EDITION AND ARE IN COMPLIANCE WITH ALL CODES NOTED IN APPLICABLE CODES TABLE.

OCCUPANCY LEGEND

- "B" BUSINESS OCCUPANCY
- "A-2" ASSEMBLY OCCUPANCY
- OUT OF SCOPE, VARIOUS OCCUPANCIES
- EGRESS COMPONENT

LIFE SAFETY LEGEND

WALL RATINGS

- 1 HR FIRE RESISTANT
- 2 HR FIRE RESISTANT
- 3 HR FIRE RESISTANT

SYMBOLS

- EXIT ARROW
- FEC - FIRE EXTINGUISHER CABINET
- FE - FIRE EXTINGUISHER
- EXIT CAPACITY TAG
- DOOR - TYPE
- 240 OCC - MAX ALLOWABLE OCC.
- 150 OCC - ACTUAL OCC.
- EGRESS LINE - LONGEST PATH
- EGRESS LINE - COMMON PATH
- EGRESS LINE - "DEAD END" CORRIDOR
- DIAGONAL DISTANCE PATH
- AREA IN SF
- Area Name: 150 SF, Occupancy Load = 10,000
- IBC OCCUPANCY TAG
- OCCUPANCY LOAD PER IBC TABLE 1004.1.1
- IBC ALLOWABLE AREA PER OCCUPANT

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2840 LIBERTY AVENUE SUITE 403
PITTSBURGH, PA 15222
(412) 932 2044
www.ae7.com

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STATE OF PENNSYLVANIA
No. 100000
J. H. G. KETZEL, III, AIA
CONSULTANT

CLIENT:
Housing Authority
of the City of Pittsburgh
200 ROSS STREET
PITTSBURGH, PA 15219
(412) 456-5000
haap.org

HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	AE7	JW

SHEET NAME:
OVERALL LIFE SAFETY PLAN - LEVEL 07

PROJECT NO. 190427.00

DATE: 02/10/2021

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REVISION #342: 01/23/2020

REVISION #343: 01/23/2020

REVISION #344: 01/23/2020

REVISION #345: 01/23/2020

REVISION #346: 01/23/2020

REVISION #347: 01/23/2020

REVISION #348: 01/23/202

GENERAL NOTES:

DESIGN LIVE LOADS

- DL-1 INTERIOR WIND PRESSURE 10 PSF
- DL-2 CURTAIN WALL DEAD LOAD 15 PSF
- DL-3 CURTAIN WALL DEFLECTION LIMIT 1/4"

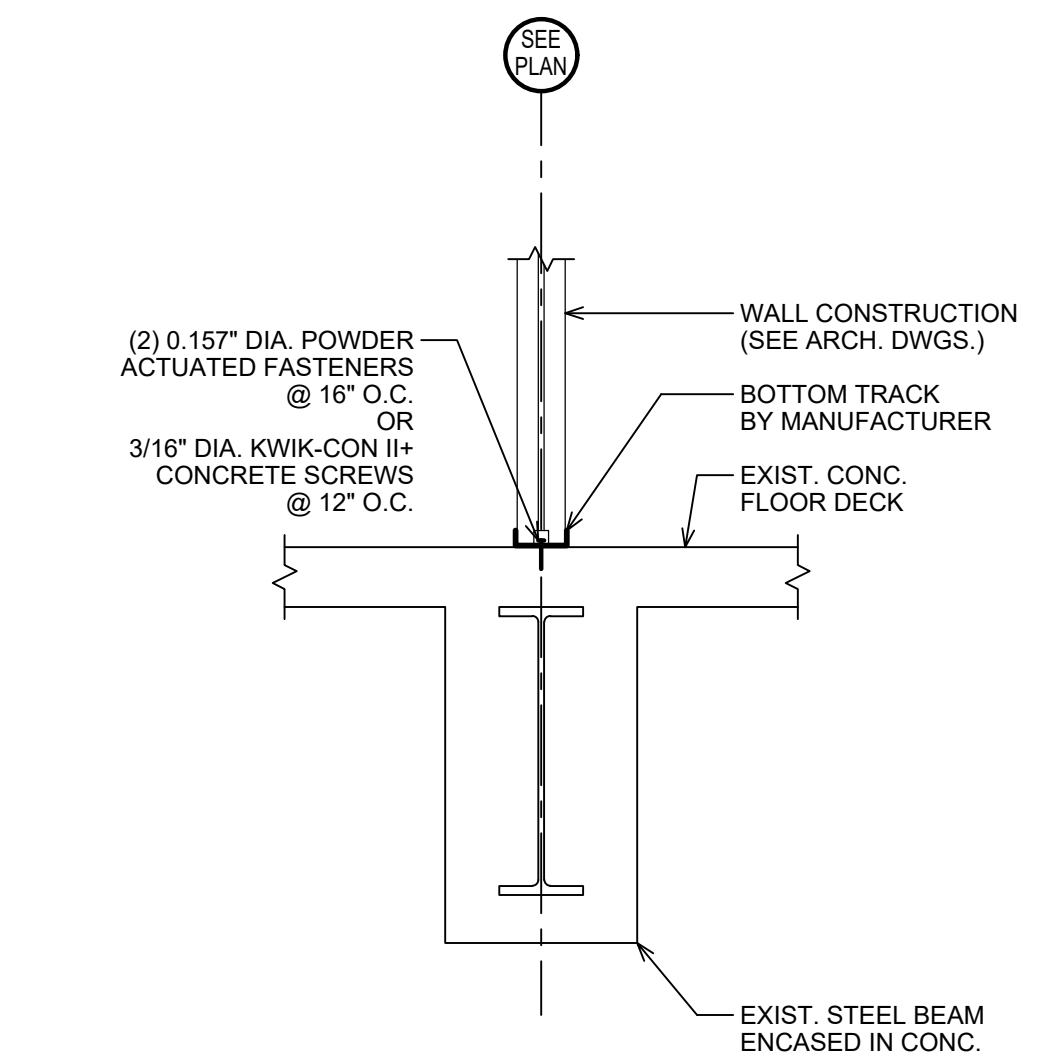
STRUCTURAL STEEL

- S-1 ALL STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360-10) OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- S-2 GRADE OF STEEL
WIDE FLANGE SHAPES ASTM A992
STEEL HSS SHAPES ASTM A500, GRADE B OR C
STEEL PIPES ASTM A53, TYPE E, GRADE B
COLUMN BASE PLATES AND MOMENT CONNECTION END PLATES ASTM A572, GRADE 50
OTHER SHAPES, PLATE, AND BARS ASTM A36, TYPICAL
- S-3 ALL STRUCTURAL BOLTS SHALL BE ASTM A325, 3/4" DIAMETER, TYPE N, UNLESS NOTED OTHERWISE.
- S-4 ALL STRUCTURAL WELDING SHALL CONFORM TO AWS D1.1 OF THE AMERICAN WELDING SOCIETY. E70 ELECTRODES SHALL BE USED FOR ALL WELDING.
- S-5 ALL BEAM END CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED FOR THE END REACTIONS INDICATED ON THE DRAWINGS. WHERE END REACTIONS ARE NOT INDICATED, THE END CONNECTION SHALL BE DESIGNED FOR ONE HALF OF THE UNIFORM LOAD CAPACITY OF THE MEMBER IN ACCORDANCE WITH AISC SPECIFICATIONS.
- S-6 ALL MODIFICATIONS REQUIRED FOR OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE DURING SHOP FABRICATION. FIELD BURNING OF STRUCTURAL STEEL IS PROHIBITED.
- S-7 UNLESS SPECIFICALLY DIMENSIONED ON PLANS, ALL FILLER BEAMS WITHIN BAYS ARE INTENDED TO BE EQUALLY SPACED.
- S-8 ALL STRUCTURAL STEEL SHALL BE SHOP COATED WITH METAL PRIMER CONFORMING TO SSPC-PAINT 25. ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP2 "HAND TOOL CLEANING" OR SSPC-SP3 "POWER TOOL CLEANING" PRIOR TO APPLYING THE PRIMER COAT. SURFACES WITHIN 3 INCHES OF WELDS SHALL NOT BE PAINTED PRIOR TO WELDING. MEMBERS TO BE FIREPROOFED AND PORTIONS TO BE IN CONTACT WITH SLIP-CRITICAL BOLTED CONNECTIONS SHALL NOT BE PAINTED.

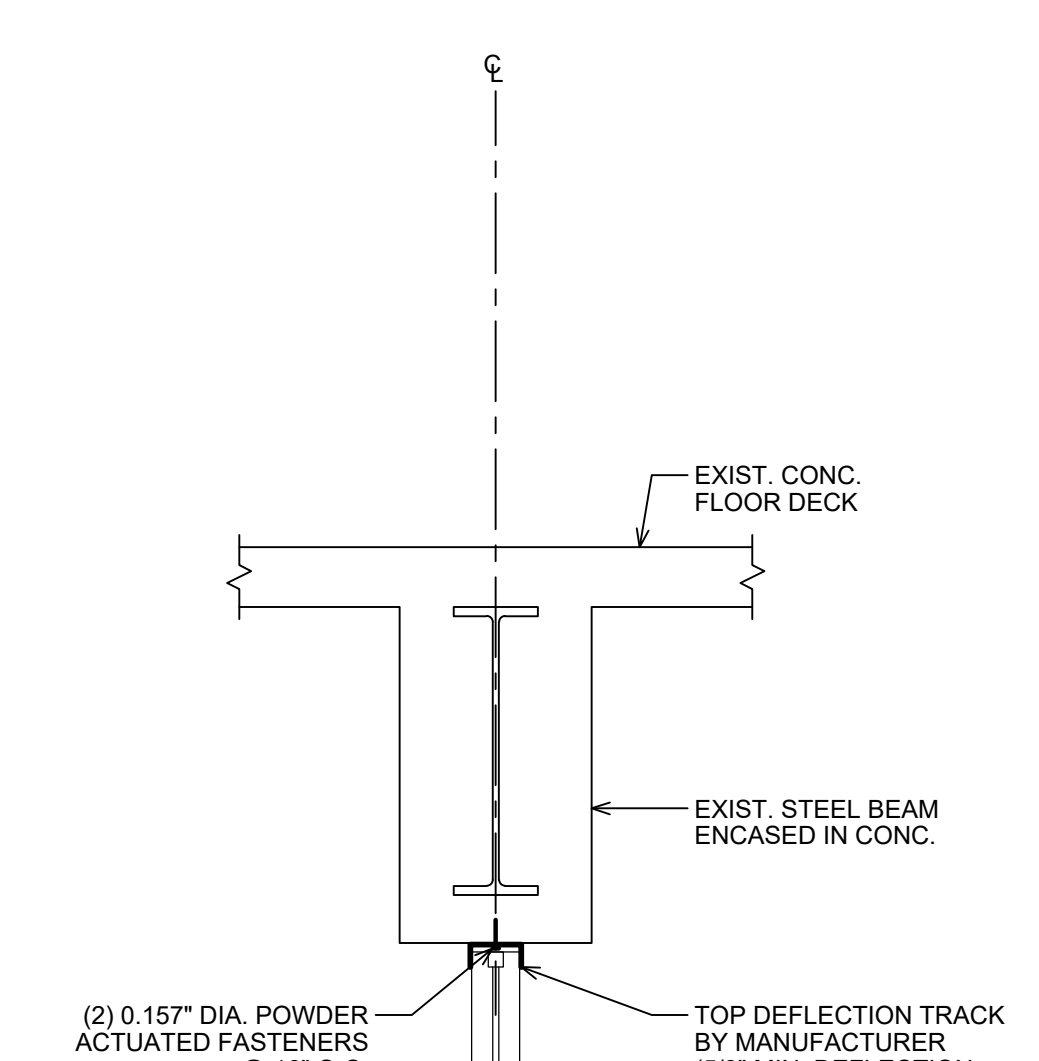
CONCRETE/MASONRY ANCHORS

- A-1 ALL EXPANSION ANCHORS SHALL BE "HILTI KWIK-BOLT 3", AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC., OR AN APPROVED EQUAL MEETING THE REQUIREMENTS OF FEDERAL SPECIFICATION A-A 1923A, TYPE 4.
- A-2 ALL SLEEVE ANCHORS SHALL BE "HILTI HLC SLEEVE ANCHORS", AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC., OR AN APPROVED EQUAL.
- A-3 ALL ADHESIVE ANCHORS SHALL BE "HILTI HIT ADHESIVE ANCHORS", AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC., OR AN APPROVED EQUAL. SCREEN TUBES SHALL BE ADDED AT ALL INSTALLATIONS IN CAVITY WALLS AND WALLS WITH HOLLOW CELLS.
- A-4 ALL THREADED RODS FOR ADHESIVE ANCHORS SHALL BE "HILTI HAS-E" CARBON STEEL THREADED RODS, AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC., CONFORMING TO ISO 888 CLASS 5.8 WITH A MINIMUM TENSILE STRENGTH OF 72.5 KSI AND A MINIMUM YIELD STRENGTH OF 58 KSI.
- A-5 ALL SCREW ANCHORS SHALL BE "KWIK-CON II+ TORX HEX HEAD", AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC., OR AN APPROVED EQUAL.
- A-6 ALL POWDER ACTUATED FASTENERS SHALL BE "HILTI X-U" AS MANUFACTURED BY HILTI FASTENING SYSTEMS, INC., OR AN APPROVED EQUAL.
- A-7 ALL ANCHOR SPACING, EMBEDMENT, EDGE DISTANCE, AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. REFER TO SECTIONS AND DETAILS ON THE DRAWINGS FOR ADDITIONAL INFORMATION.
- A-8 SUBSTITUTIONS:
ANY PROPOSED ANCHOR SUBSTITUTIONS BY THE CONTRACTOR MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. PROPOSED SUBSTITUTION SUBMITTALS MUST INCLUDE STRUCTURAL CALCULATIONS, SIGNED AND SEALED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER, DEMONSTRATING THAT THE PROPOSED ANCHORS ARE STRUCTURALLY ADEQUATE FOR THE SPECIFIC LOADS AND CONDITIONS AT EACH LOCATION WHERE THE SUBSTITUTION IS TO BE CONSIDERED. (DUE TO VARIOUS CONDITIONS AND ADJUSTMENT FACTORS THAT MUST BE CONSIDERED WHEN CALCULATING ANCHOR CAPACITIES, LOAD TABLES PREPARED BY OTHER MANUFACTURERS FOR SIMILAR ANCHOR TYPES ARE NOT SUFFICIENT FOR DETERMINING ANCHOR SUITABILITY).

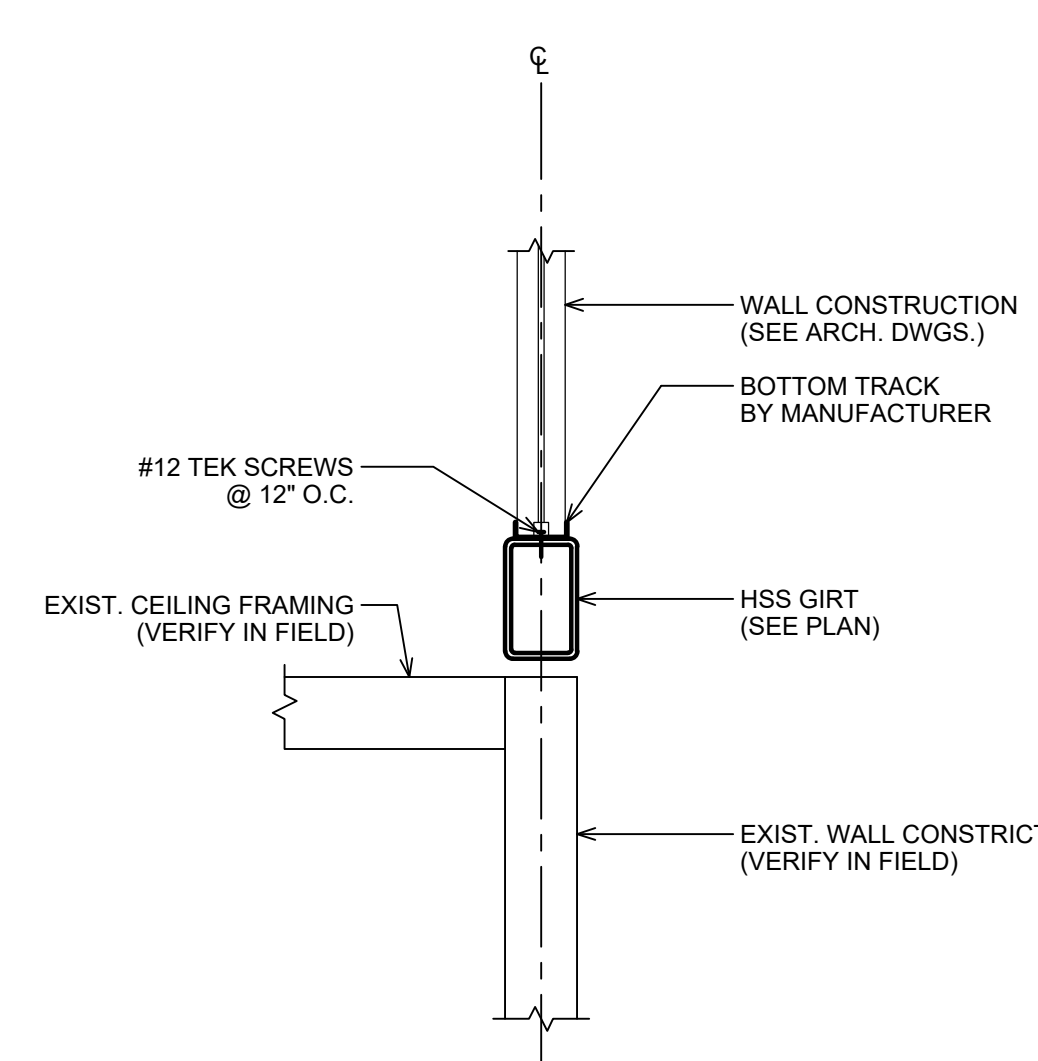
STRUCTURAL SPECIAL INSPECTIONS SCHEDULE			
SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD	
STEEL CONSTRUCTION:			
1. FABRICATOR:			
a. SEE INSPECTION OF FABRICATOR(S).			
2. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:			
a. DETAILS SUCH AS BRACING AND STIFFENING.	PERIODIC	AISC 360: N5.2	
b. MEMBER LOCATIONS	PERIODIC		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	PERIODIC		
3. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTING MATERIALS:			
a. MANUFACTURER CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	CONTINUOUS	AISC 360: A3.3, A3.4, N5.2, N5.6	APPLICABLE ASTM MATERIAL SPECIFICATIONS
b. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	CONTINUOUS		
4. INSPECTION OF HIGH-STRENGTH BOLTING:			
a. SNUG-TIGHT JOINTS.	PERIODIC	AISC 360: N5.2, N5.6 TABLES N5.6-1, N5.6-2, N5.6-3	
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN OF NUT METHOD WITH MATCHMARKING TECHNIQUES.	PERIODIC		
c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN OF NUT METHOD WITHOUT MATCHMARKING TECHNIQUES.	CONTINUOUS		
5. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
a. MANUFACTURER CERTIFICATIONS AVAILABLE FOR WELDING CONSUMABLES.	CONTINUOUS	AISC 360: A3.5, N5.2, N5.4	APPLICABLE AWS A5 DOCUMENTS
b. MATERIAL IDENTIFICATION (TYPE/GRADE) AND WELDING PROCEDURE SPECIFICATIONS AVAILABLE.	CONTINUOUS		
6. INSPECTION OF WELDING:			
a. SINGLE-PASS FILLET WELDS ≤ 5/16"	PERIODIC	AWS D1.1 AISC 360: N5.2, N5.4 TABLES N5.4-1, N5.4-2, N5.4-3	
b. SINGLE-PASS FILLET WELDS > 5/16"	CONTINUOUS		
c. MULTI-PASS FILLET WELDS.	CONTINUOUS		
d. PLUG AND SLOT WELDS.	CONTINUOUS		
e. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	CONTINUOUS		
7. NONDESTRUCTIVE TESTING OF CJP GROOVE WELDS:			
a. RISK CATEGORY II: ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIALS 5/16" THICK OR GREATER.		AWS D1.1 AISC 360: N5	
b. RISK CATEGORY III OR IV: ULTRASONIC TESTING SHALL BE PERFORMED ON ALL CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIALS 5/16" THICK OR GREATER.			
8. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT:			
a. PLACEMENT AND INSTALLATION OF STEEL DECK.	CONTINUOUS	AISC 360: N5.2, N6 TABLE N6.1	
b. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.			
c. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.			
INSPECTION OF FABRICATOR(S):			
1. APPLICABLE ELEMENT (FABRICATOR CERTIFICATION REQUIREMENTS):			
a. STRUCTURAL STEEL (AISC CERTIFIED FOR CONVENTIONAL STEEL BUILDINGS)			
2. WHEN SPECIAL INSPECTIONS ARE REQUIRED BY BUILDING OFFICIAL:			
a. FABRICATION AND IMPLEMENTATION PROCEDURES: THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION, CONTROL OF THE WORKMANSHIP, AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.			
3. WHEN SPECIAL INSPECTIONS ARE NOT REQUIRED BY THE BUILDING OFFICIAL:			
a. UPON COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.			



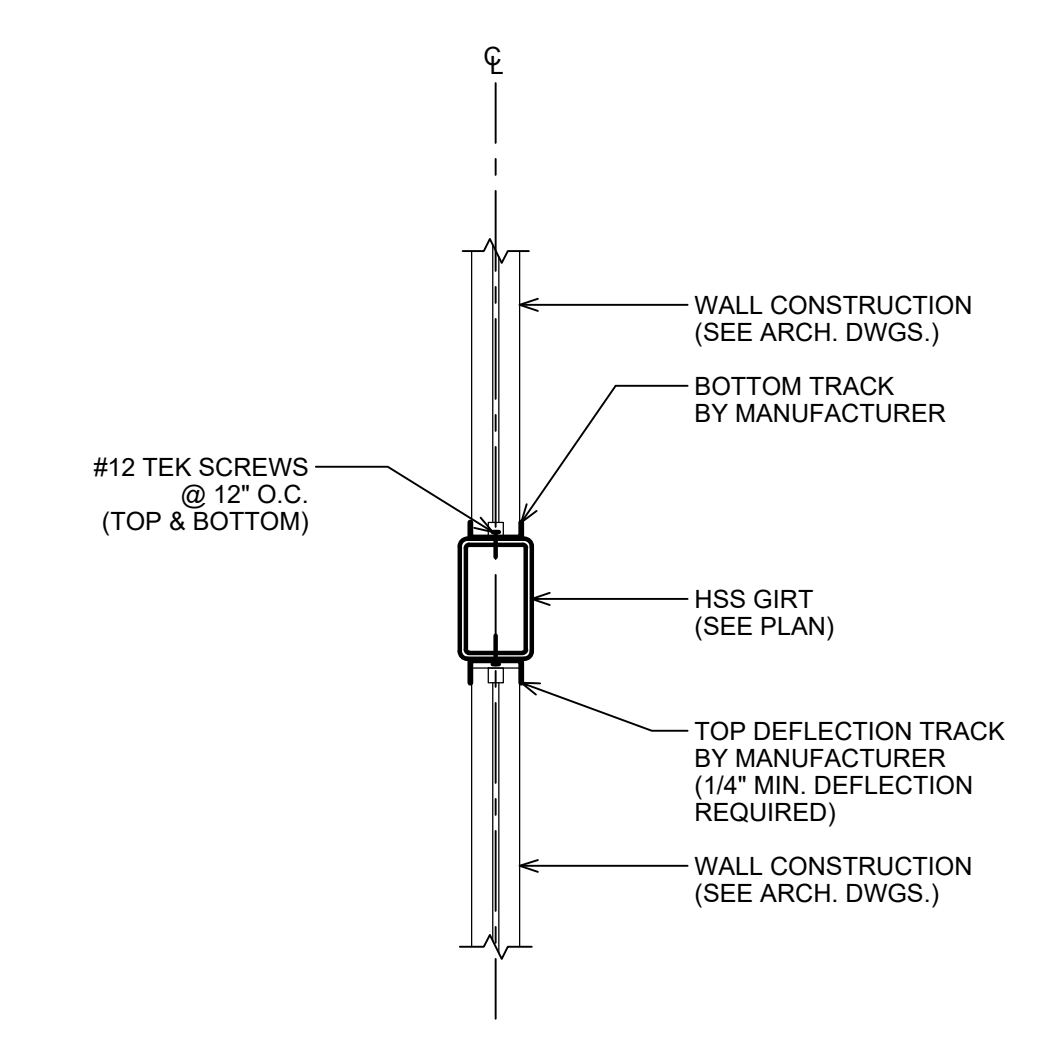
1 SECTION
S201 SCALE: 3/4" = 1'-0"



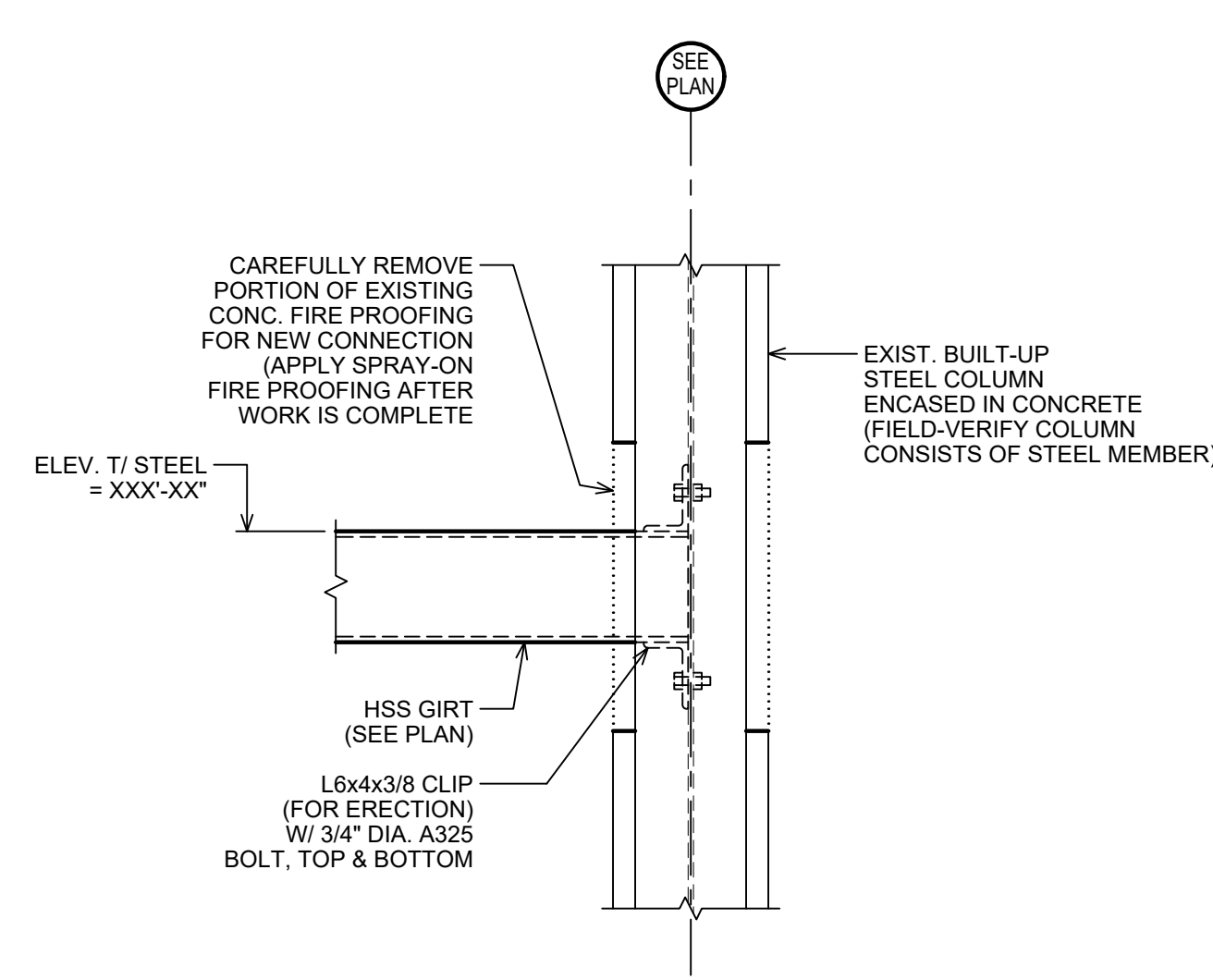
2 SECTION
S201 SCALE: 3/4" = 1'-0"



3 SECTION
S201 SCALE: 3/4" = 1'-0"



4 SECTION
S201 SCALE: 3/4" = 1'-0"



5 SECTION
S201 SCALE: 3/4" = 1'-0"

NOTE: FIELD WELDED CONNECTION IS ACCEPTABLE IF EXISTING STEEL IS VERIFIED TO BE WELDABLE.

ae7
2840 LIBERTY AVENUE SUITE 403
PITTSBURGH, PA 15222
(412) 932-0444
www.ae7.com

PROFESSIONAL SEAL
PHILIP G. RITTLING
REGISTERED PROFESSIONAL ENGINEER
No. PE077915
EXPIRES 12/31/2020

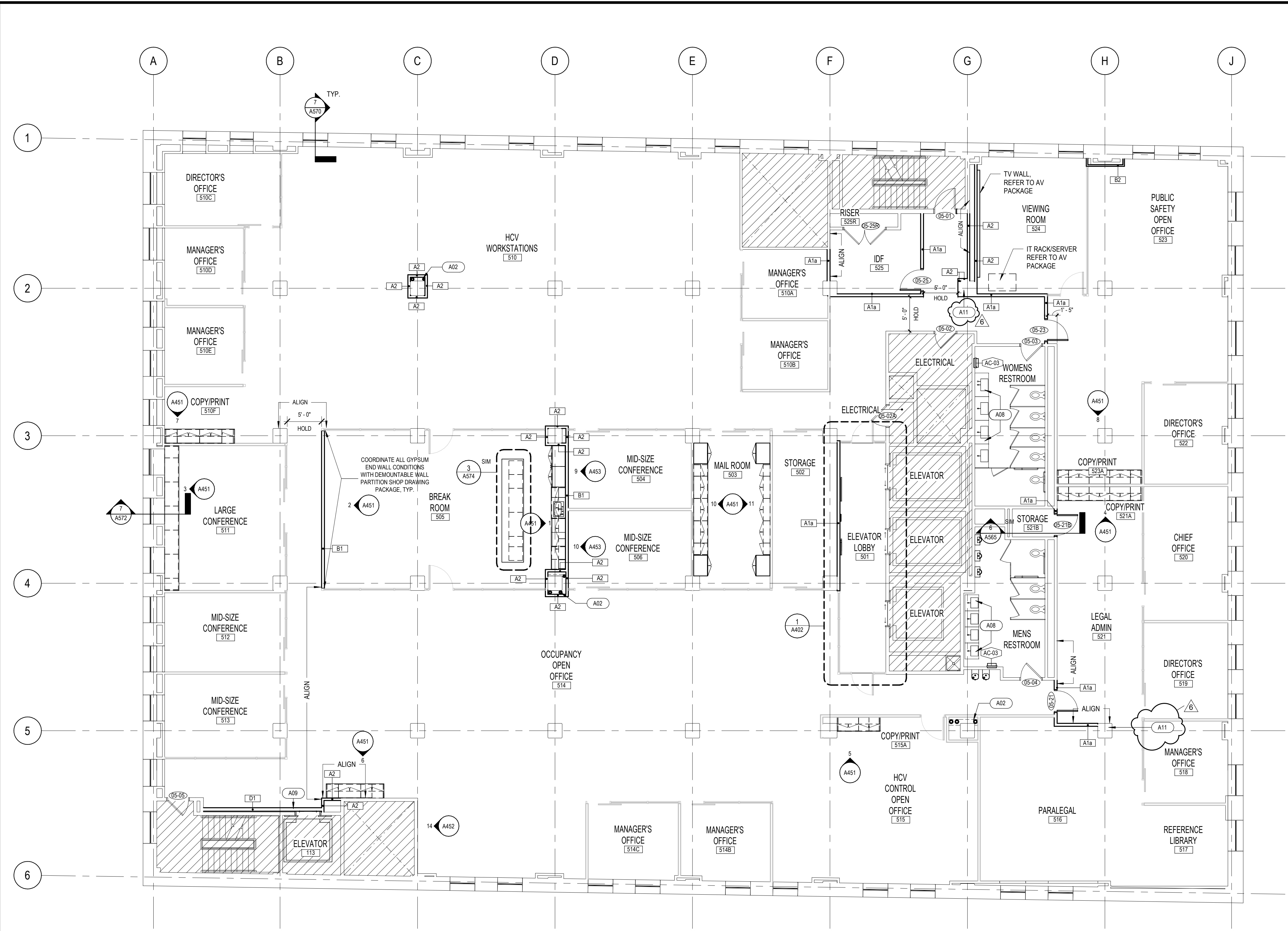
TSE
Taylor Structural Engineers, Inc.
2275 Swallow Hill Road, Building 100
Pittsburgh, Pennsylvania 15220
Phone: (412) 722-0880
Fax: (412) 722-0887
TSE Project No.: 6229

CLIENT:
Housing Authority
of the City of Pittsburgh

200 ROSS STREET
PITTSBURGH, PA 15219
(412) 456-5000
hacp.org

HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219

6	ADDENDUM #	02/10/2021
#	100% CONSTRUCTION DOCUMENTS REV 1	07/09/2020
PROJECT ISSUANCE		
PROJECT NO.	190427.00	DRAWN BY: TFB
		REVIEWED BY: PGR
SHEET NAME: GENERAL NOTES, SPECIAL INSPECTIONS TABLE, STRUCTURAL SECTION AND DETAILS		
S201R		



1 OVERALL FLOOR PLAN - LEVEL 05
1/8" = 1'-0"

PLAN NOTES

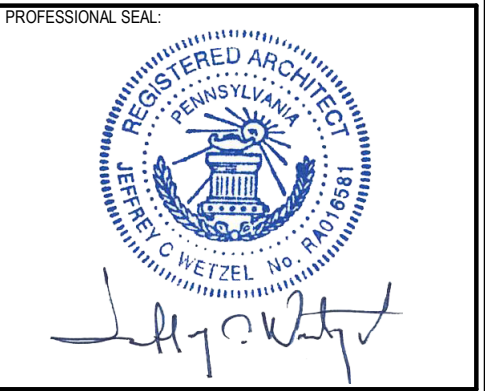
- REFER TO SHEET G010 FOR PROJECT GENERAL NOTES.
- INTERIOR DIMENSIONS ARE TO CENTER OF WALL U.O.N.
- DOORS WITH STUD WALLS TO BE A TYPICAL 4" DISTANCE ON HINGE SIDE FROM ADJACENT WALL. DOORS WITH MASONRY WALLS TO BE A TYPICAL SINGLE UNIT DISTANCE ON HINGE SIDE FROM ADJACENT WALL.
- RETURN FURRED/LAMINATED GYP. BD. TO DOOR AND/OR WINDOW FRAMES AS REQUIRED - TYP.
- CONSTRUCT PARTITIONS FROM FLOOR SLAB TO UNDERSIDE OF DECK U.O.N.
- STUD PARTITIONS SHALL HAVE DOUBLE STUDS AT DOOR JAMBS, OPENINGS, AND CORNERS.
- PROVIDE FIRE-RETARDANT WOOD BLOCKING FOR WALL MOUNTED ITEMS, INCLUDING ITEMS FURNISHED BY THE OWNER.
- AT STUD PARTITIONS PROVIDE DIAGONAL BRACING AT OPENINGS GREATER THAN 4'-0" WIDE
- PARTITIONS DESIGNATED AS SOUND RATED SHALL BE:
 - SEALED WITH ACOUSTICAL SEALANT AT EACH FACE OF PARTITION WHERE PENETRATED BY DUCT, PIPE, CONDUIT, OR OTHER APPURTENANCES.
 - SEALED WITH ACOUSTICAL SEALANT CONTINUOUSLY AT PERIMETER, SILLS, JAMBS, AND HEADS - EACH SIDE.
- PARTITIONS DESIGNATED TO BE FIRE RATED SHALL BE:
 - SET TOP AND BOTTOM PARTITION RUNNER TRACKS IN BEDS OF SEALANT.
 - PACK VOIDS BETWEEN TOP OF PARTITION AND UNDERSIDE OF STRUCTURE WITH FIRE SAFING.
 - CLOSE PENETRATIONS WITH FIRE-STOPPING MATERIALS PER U.L. DESIGN.
- GYPSUM BOARD PARTITIONS DESIGNATED IN WET AREAS SHALL HAVE PROVIDED GALVANIZED STUDS, FASTENERS AND MISC. METAL ACCESSORIES.
- PARTITION TYPES OVER OPENINGS SHALL MATCH ADJACENT PARTITIONS U.O.N.

PLAN KEYED NOTES

NO	DESCRIPTION
A451	EXISTING PLUMBING PIPES REFER TO PLUMBING DRAWINGS. REFER TO DETAIL B1670 FOR EXPOSED PIPE DETAIL FOR EXISTING PLUMBING AND SINKS. PART OF "BASE BUILDING COST" PIPE SEPARATELY FROM TENANT FIT-OUT PACKAGE. MAINLINE PLUMBING SHALL BE 1/2" ABOVE OPERATIONAL DEVICES WITH SHAFT/WALL PER WALL TYPE D1. CONFIRM ACCESS TO MECH. THRU FLOOR IS LOCKED BY THE ELEVATOR OPERATOR.
A11	EXTENSIVE REPAIR ON COLUMN, REBUILD CORNER AND PREPARE SURFACE TO RECEIVE NEW PAINT.

PLAN LEGEND

	EXISTING CONSTRUCTION
	DEMOUNTABLE WALL PARTITION (NOT INCLUDED IN GC SCOPE)
	NEW CONSTRUCTION
	ROOM NAME
	ROOM NUMBER
	ROOM TAG
	AREA
	DOOR TAG REFER TO SHEET A600-P1
	PARTITION TAG REFER TO SHEET A630
	WINDOW TAG
	KEYED NOTE VALUE
	KEYNOTE
	NOT IN SCOPE



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412 Boulevard of the Allies, Pittsburgh, PA 15219

ADDENDUM #	DATE
6	02/10/2021
5	09/03/2020
4	07/30/2020
3	07/09/2020
2	05/22/2020
1	01/23/2020

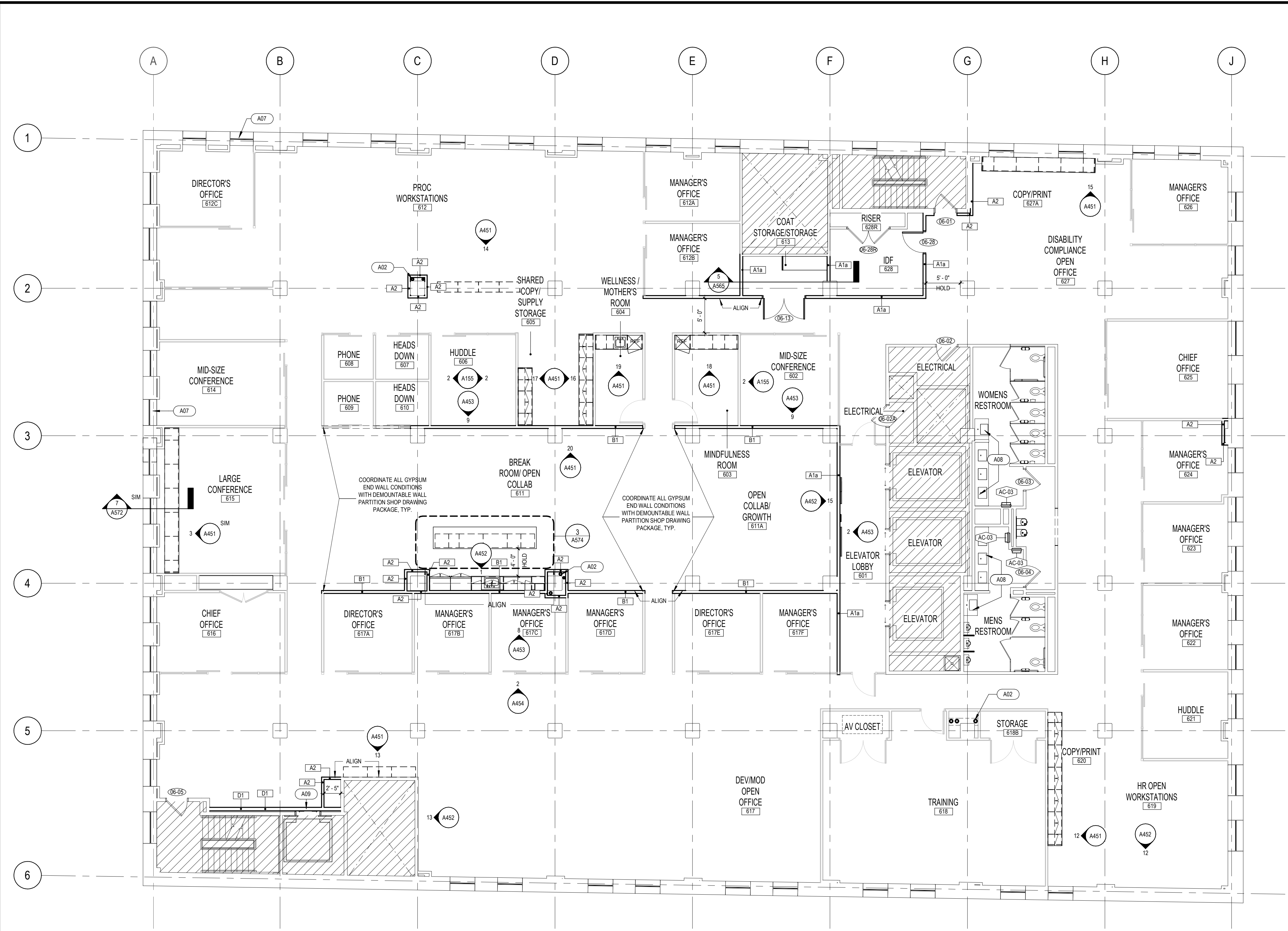
PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	AE7	JW

OVERALL FLOOR PLAN - LEVEL 05

SHEET NO. **A105R**

TRUE NORTH
PLAN NORTH

B:\360\19042700 - HACP - Housing Authority of the City of Pittsburgh\19042700_Arch_HACP_Floor.plt 2/10/2021 5:36:13 PM



1 OVERALL FLOOR PLAN - LEVEL 06
1/8" = 1'-0"

PLAN NOTES

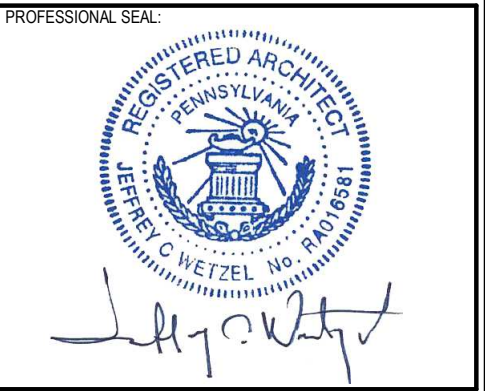
- REFER TO SHEET G010 FOR PROJECT GENERAL NOTES.
- INTERIOR DIMENSIONS ARE TO CENTER OF WALL U.O.N.
- DOORS WITH STUD WALLS TO BE A TYPICAL 4" DISTANCE ON HINGE SIDE FROM ADJACENT WALL. DOORS WITH MASONRY WALLS TO BE A TYPICAL SINGLE UNIT DISTANCE ON HINGE SIDE FROM ADJACENT WALL.
- RETURN FURRED/LAMINATED GYP. BD. TO DOOR AND/OR WINDOW FRAMES AS REQUIRED - TYP.
- CONSTRUCT PARTITIONS FROM FLOOR SLAB TO UNDERSIDE OF DECK U.O.N.
- STUD PARTITIONS SHALL HAVE DOUBLE STUDS AT DOOR JAMBS, OPENINGS, AND CORNERS.
- PROVIDE FIRE-RETARDANT WOOD BLOCKING FOR WALL MOUNTED ITEMS, INCLUDING ITEMS FURNISHED BY THE OWNER.
- AT STUD PARTITIONS PROVIDE DIAGONAL BRACING AT OPENINGS GREATER THAN 4'-0" WIDE
- PARTITIONS DESIGNATED AS SOUND RATED SHALL BE:
 - SEALED WITH ACOUSTICAL SEALANT AT EACH FACE OF PARTITION WHERE PENETRATED BY DUCT, PIPE, CONDUIT, OR OTHER APPURTENANCES.
 - SEALED WITH ACOUSTICAL SEALANT CONTINUOUSLY AT PERIMETER, SILLS, JAMBS, AND HEADS - EACH SIDE.
- PARTITIONS DESIGNATED TO BE FIRE RATED SHALL BE:
 - SET TOP AND BOTTOM PARTITION RUNNER TRACKS IN BEDS OF SEALANT.
 - PACK VOIDS BETWEEN TOP OF PARTITION AND UNDERSIDE OF STRUCTURE WITH FIRE SAFING.
 - CLOSE PENETRATIONS WITH FIRE-STOPPING MATERIALS PER U.L. DESIGN.
- GYP. BOARD PARTITIONS DESIGNATED IN WET AREAS SHALL HAVE PROVIDED GALVANIZED STUDS, FASTENERS AND MISC. METAL ACCESSORIES.
- PARTITION TYPES OVER OPENINGS SHALL MATCH ADJACENT PARTITIONS U.O.N.

PLAN KEYED NOTES

NO	DESCRIPTION
A02	EXISTING PLUMBING PIPES-REFER TO PLUMBING DRAWINGS FOR ROOM OPERATIONAL W/OUT
A07	REFER TO DETAIL B4570 FOR EXPOSED PIPE DETAIL FOR EXISTING PLUMBING AND SINKS. PART OF "BASE BUILDING COST" - PRICE SEPARATELY FROM TENANT FIT-OUT PACKAGE
A08	LEAVE OVER-EXISTING ELEVATOR DOOR AND OPERATIONAL DEVICES WITH SHIP WALL PER WALL D1. CONSIDER ACCESS TO THE 5TH THRU 7TH FLOOR IS LOCKED OFF THE ELEVATOR OPERATION.

PLAN LEGEND

	EXISTING CONSTRUCTION
	DEMOUNTABLE WALL PARTITION (NOT INCLUDED IN GC SCOPE)
	NEW CONSTRUCTION
	ROOM NAME
	ROOM NUMBER
	ROOM TAG
	AREA
	DOOR TAG REFER TO SHEET A600-P1
	PARTITION TAG REFER TO SHEET A630
	WINDOW TAG
	KEYED NOTE VALUE
	KEYNOTE
	NOT IN SCOPE



CLIENT: Housing Authority of the City of Pittsburgh

HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219

NO	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #3	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

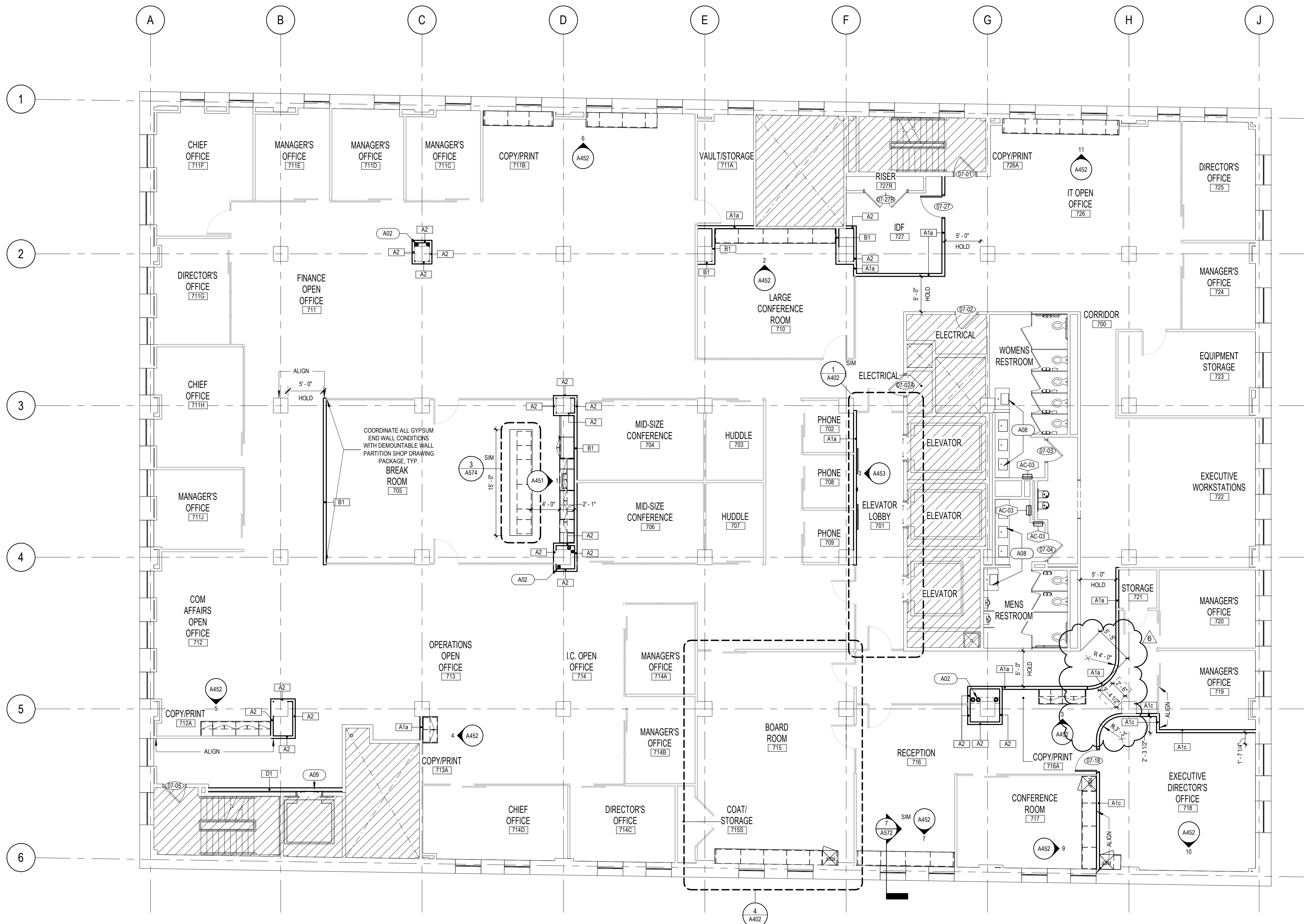
PROJECT NO: 190427.00 DRAWN BY: AE7 REVIEWED BY: JW
SHEET NAME: OVERALL FLOOR PLAN - LEVEL 06
SHEET NO: A106R
TRUE NORTH
PLAN NORTH

PLAN NOTES

- REFER TO SHEET G010 FOR PROJECT GENERAL NOTES.
- INTERIOR DIMENSIONS ARE TO CENTER OF WALL U.O.N.
- DOORS WITH STUD WALLS TO BE A TYPICAL 4" DISTANCE ON HINGE SIDE FROM ADJACENT WALL. DOORS WITH MASONRY WALLS TO BE A TYPICAL SINGLE UNIT DISTANCE ON HINGE SIDE FROM ADJACENT WALL.
- RETURN FURFUR LAMINATED GYP. BD. TO DOOR AND/OR WINDOW FRAMES AS REQUIRED - TYP.
- CONSTRUCT PARTITIONS FROM FLOOR SLAB TO UNDERSIDE OF DECK U.O.N.
- STUD PARTITIONS SHALL HAVE DOUBLE STUDS AT DOOR JAMBS, OPENINGS, AND CORNERS.
- PROVIDE FIRE-RETARDANT WOOD BLOCKING FOR WALL MOUNTED ITEMS, INCLUDING ITEMS FURNISHED BY THE OWNER.
- AT STUD PARTITIONS PROVIDE DIAGONAL BRACING AT OPENINGS GREATER THAN 4'-0" WIDE
- PARTITIONS DESIGNATED AS SOUND RATED SHALL BE:
 - SEALED WITH ACOUSTICAL SEALANT AT EACH FACE OF PARTITION WHERE PENETRATED BY DUCT, PIPE, CONDUIT, OR OTHER APPURTENANCES.
 - SEALED WITH ACOUSTICAL SEALANT CONTINUOUSLY AT PERIMETER, SILLS, JAMBS, AND HEADS - EACH SIDE.
- PARTITIONS DESIGNATED TO BE FIRE RATED SHALL BE:
 - SET TOP AND BOTTOM PARTITION RUNNER TRACKS IN BEDS OF SEALANT.
 - PACK VOIDS BETWEEN TOP OF PARTITION AND UNDERSIDE OF STRUCTURE WITH FIRE SAFING.
 - CLOSE PENETRATIONS WITH FIRE STOPPING MATERIALS PER U.L. DESIGN.
- GYPSUM BOARD PARTITIONS DESIGNATED IN WET AREAS SHALL HAVE PROVIDED GALVANIZED STUDS, FASTENERS AND MISC. METAL ACCESSORIES.
- PARTITION TYPES OVER OPENINGS SHALL MATCH ADJACENT PARTITIONS U.O.N.

PLAN KEYED NOTES

NO.	DESCRIPTION
A08	EXISTING PLUMBING TYPES REFER TO PLUMBING DRAWINGS. REFER TO DETAIL (B457) FOR EXPOSED PIPE DETAIL FOR EXISTING PLUMBING AND SINKS. PART OF "BASE BUILDING COST" - PROVIDED SEPARATELY FROM TENANT "FIT-OUT PACKAGE". POINT TO EXISTING PLUMBING TO BE RELOCATED OR REMOVED. DEVICES WITH SHAFTWALL PER WALL TYPE D1. CONFIRM ACCESS TO THE 5TH THRU 7TH FLOOR IS LOCKED OFF THE ELEVATOR OPERATION.



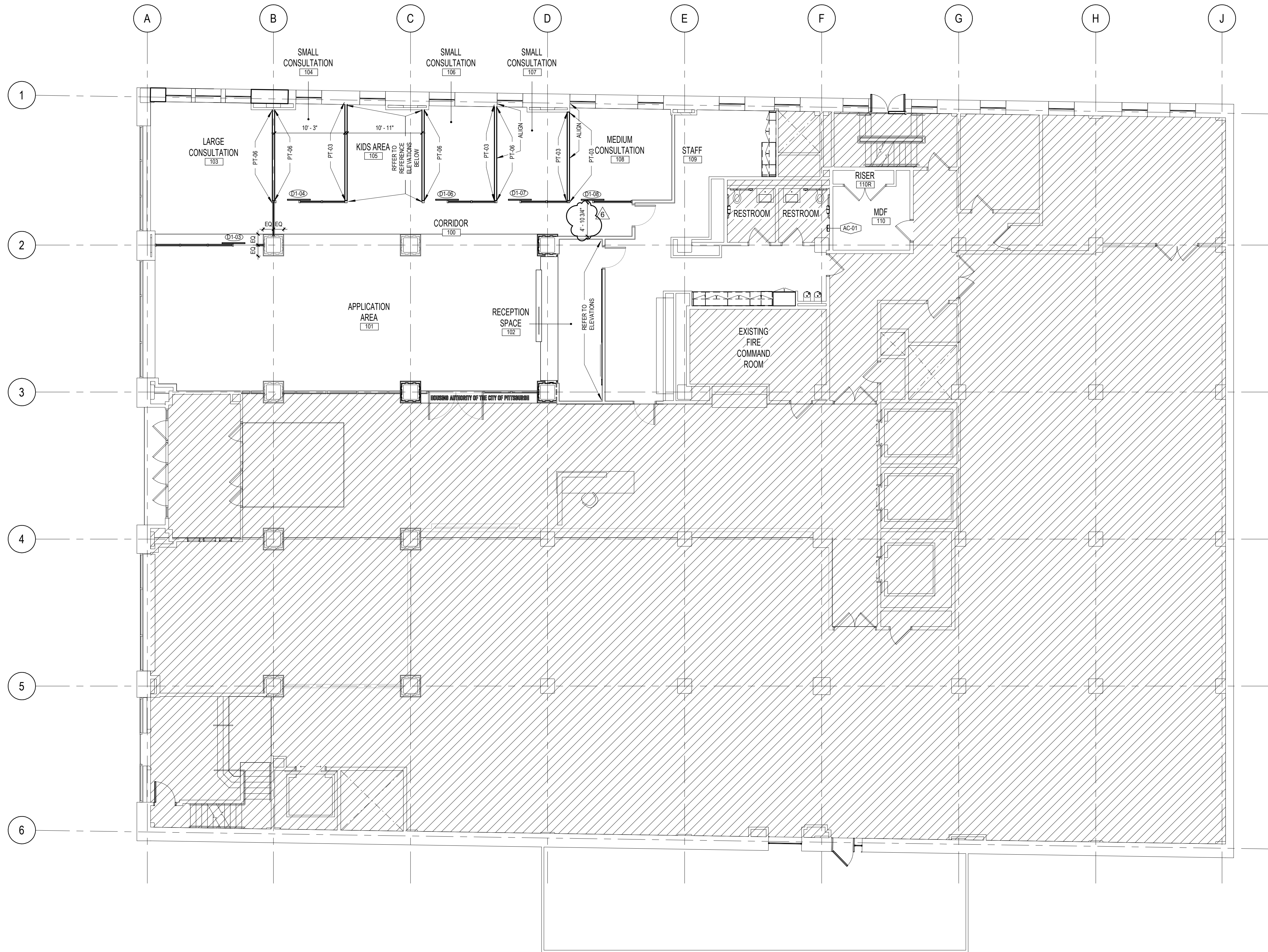
1 OVERALL FLOOR PLAN - LEVEL 07
 1/8" = 1'-0"

PLAN LEGEND

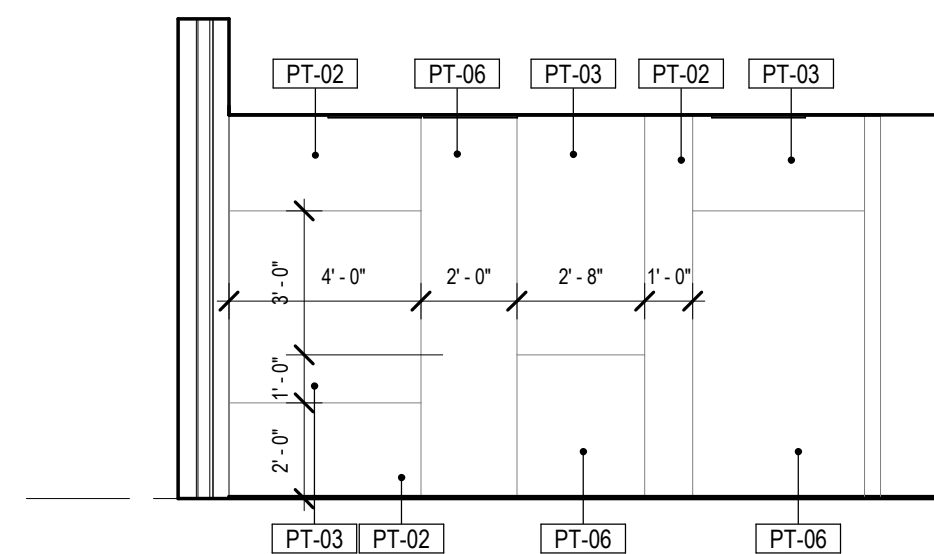
	EXISTING CONSTRUCTION
	DEMOUNTABLE WALL PARTITION (NOT INCLUDED IN GC SCOPE)
	NEW CONSTRUCTION
	ROOM NAME
	ROOM NUMBER
	ROOM TAG
	AREA
	DOOR TAG REFER TO SHEET A600-P1
	PARTITION TAG REFER TO SHEET A630
	WINDOW TAG
	KEYED NOTE VALUE
	KEYNOTE
	NOT IN SCOPE

NO.	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
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2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

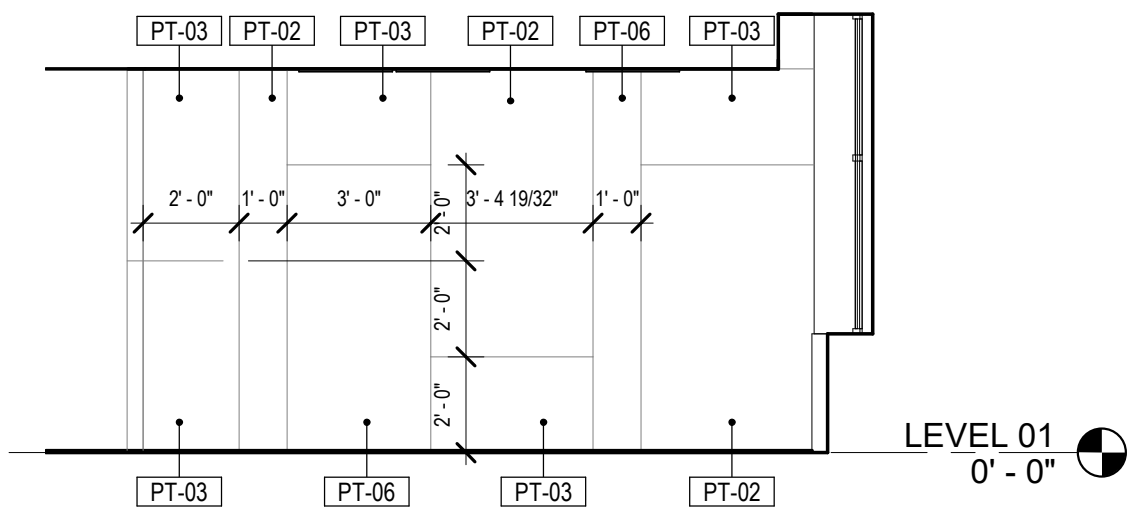
PROJECT NO. 190427.00	DRAWN BY: AE7	REVIEWED BY: JW
SHEET NAME: OVERALL FLOOR PLAN - LEVEL 07		
SHEET NO. A107R		



1 OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 01 (FOR REFERENCE ONLY)
1/8" = 1'-0"



3 KIDS AREA - ELEVATION 2 (for reference only)
1/4" = 1'-0"



2 KIDS AREA - ELEVATION 1 (for reference only)
1/4" = 1'-0"

DEMOUNTABLE PLAN NOTES

- REFER TO SHEET G010 FOR PROJECT GENERAL NOTES.
- REFER TO RESPONSIBILITY MATRIX ON SHEET G020 FOR ADDITIONAL CLARIFICATION REGARDING GC VS. DEMOUNTABLE PARTITION VENDOR SCOPE.

2840 LIBERTY AVENUE SUITE 403
PITTSBURGH, PA 15222
(412) 932 2044
www.ae7.com

PROFESSIONAL SEAL

Jeffrey C. Kretzel

CONSULTANT

CLIENT

200 ROSS STREET
PITTSBURGH, PA 15219
(412) 456-5500
hacp.org

HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219

PLAN LEGEND

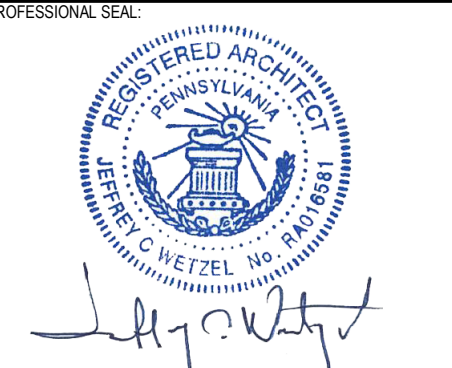
- EXISTING CONSTRUCTION
- DEMOUNTABLE WALL PARTITION
- NEW CONSTRUCTION
- ROOM NAME
- ROOM NUMBER
- AREA
- DOOR TAG REFER TO SHEET A600-P1
- PARTITION TAG REFER TO SHEET A630
- KEYED NOTE VALUE
- KEYNOTE
- NOT IN SCOPE

NO.	REVISION	DATE
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2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

PROJECT NO. 190427.00	DRAWN BY AE7	REVIEWED BY JW
SHEET NAME OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 01		
SHEET NO.		

A151R
TRUE NORTH
PLAN NORTH

B:\1366\19042700 - HACP - Housing Authority of the City of Pittsburgh\19042700_Arch_HACP_Floor.plt
2/10/2021 6:03:18 PM



CONSULTANT:

CLIENT:
Housing Authority of the City of Pittsburgh
 200 ROSS STREET
 PITTSBURGH, PA 15219
 (412) 456-5000
 hapc.org

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 412 Boulevard of the Allies, Pittsburgh, PA 15219

DEMOUNTABLE PLAN NOTES

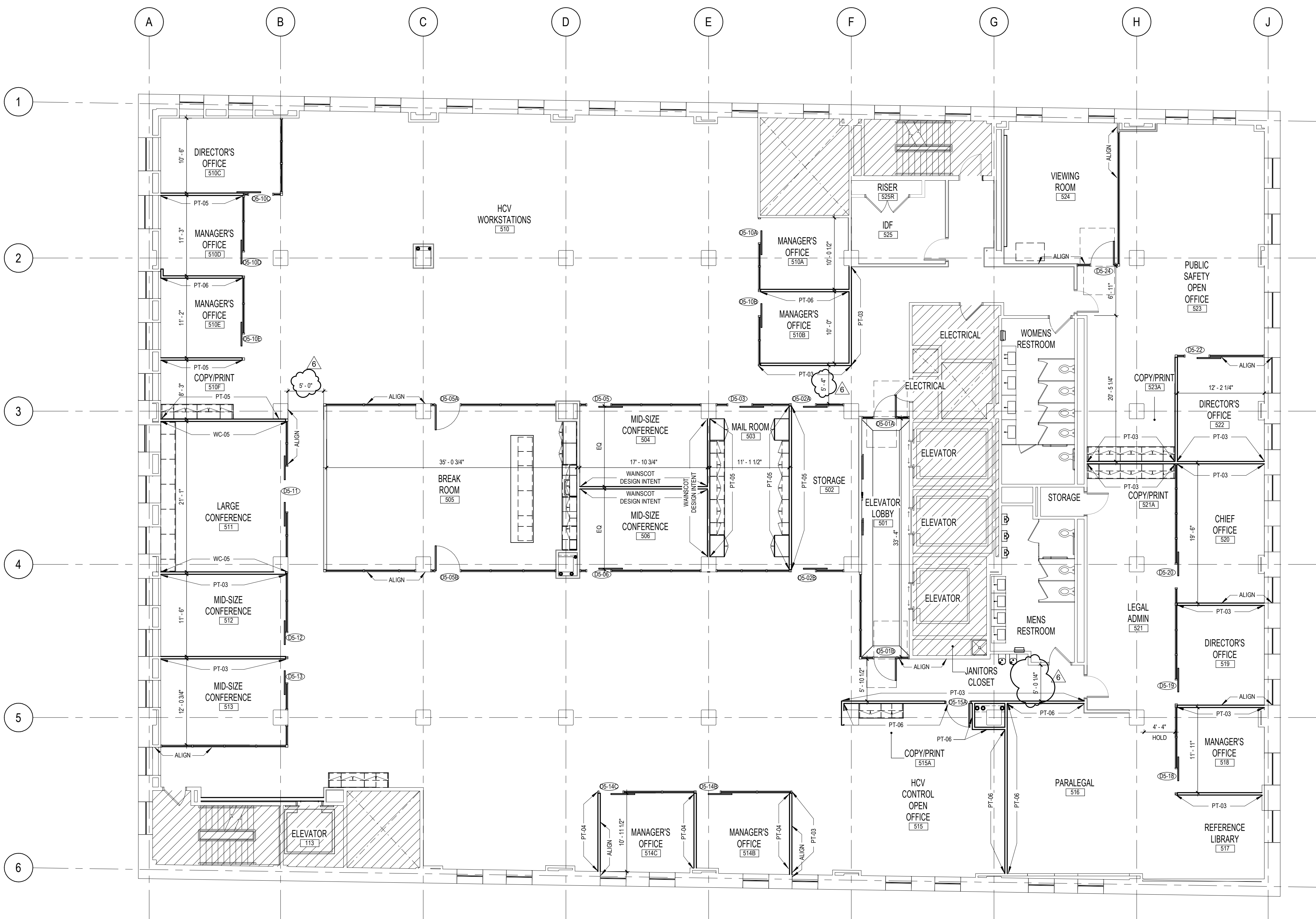
- REFER TO SHEET G010 FOR PROJECT GENERAL NOTES.
- REFER TO RESPONSIBILITY MATRIX ON SHEET G020 FOR ADDITIONAL CLARIFICATION REGARDING GC VS. DEMOUNTABLE PARTITION VENDOR SCOPE.

PLAN LEGEND

	EXISTING CONSTRUCTION
	DEMOUNTABLE WALL PARTITION
	NEW CONSTRUCTION
	ROOM NAME
	ROOM NUMBER
	AREA
	DOOR TAG REFER TO SHEET A600-P1
	PARTITION TAG REFER TO SHEET A630
	KEYED NOTE VALUE
	KEYNOTE
	NOT IN SCOPE

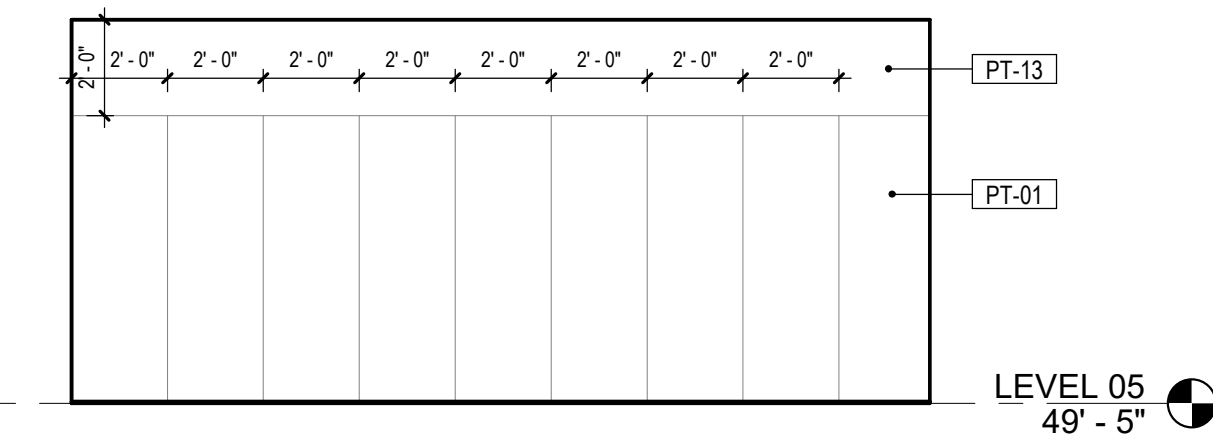
NO.	REVISION	DATE
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1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

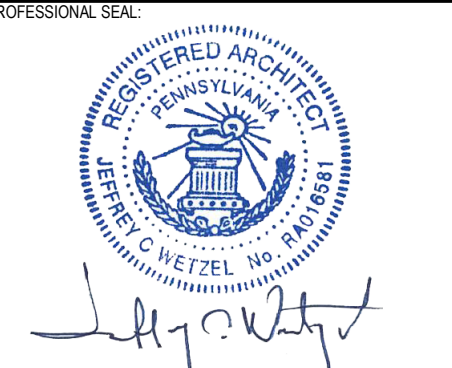
PROJECT NO. 190427.00	DRAWN BY AE7	REVIEWED BY JW
SHEET NAME OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 05		
SHEET NO. A155R		



1 OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 05 (FOR REFERENCE ONLY)
 1/8" = 1'-0"

2 MID SIZE CONF & HUDDLE - (design reference only for demountable wall manuf.)
 1/4" = 1'-0"





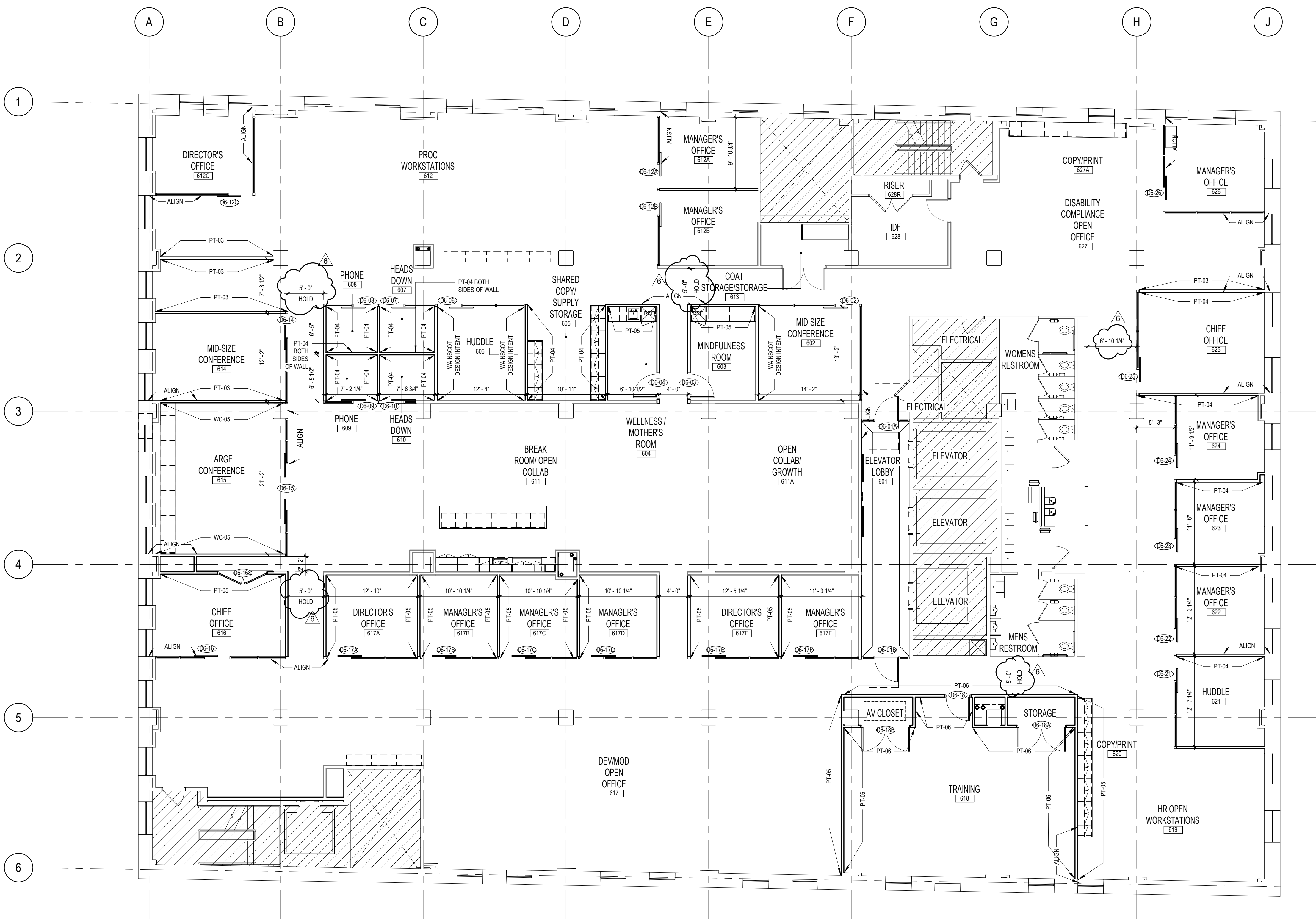
CONSULTANT:

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Housing Authority
 of the City of Pittsburgh
 200 ROSS STREET
 PITTSBURGH, PA 15219
 (412) 456-5000
 haap.org

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DEMOUNTABLE PLAN NOTES

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- REFER TO RESPONSIBILITY MATRIX ON SHEET G020 FOR ADDITIONAL CLARIFICATION REGARDING GC VS. DEMOUNTABLE PARTITION VENDOR SCOPE.



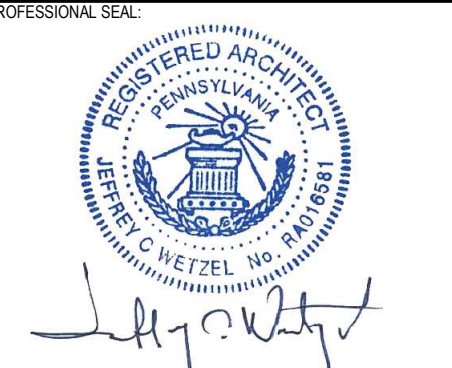
1 OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 06 (FOR REFERENCE ONLY)
 1/8" = 1'-0"

PLAN LEGEND

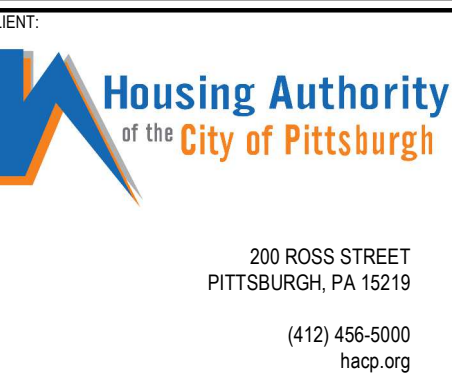
- EXISTING CONSTRUCTION
- DEMOUNTABLE WALL PARTITION
- NEW CONSTRUCTION
- ROOM NAME
- ROOM NUMBER
- AREA
- DOOR TAG REFER TO SHEET A600-P1
- PARTITION TAG REFER TO SHEET A630
- KEYED NOTE VALUE
- KEYNOTE
- NOT IN SCOPE

NO.	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #3	09/03/2020
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2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

PROJECT NO. 190427.00	DRAWN BY AE7	REVIEWED BY JW
SHEET NAME OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 06		
SHEET NO. A156R		



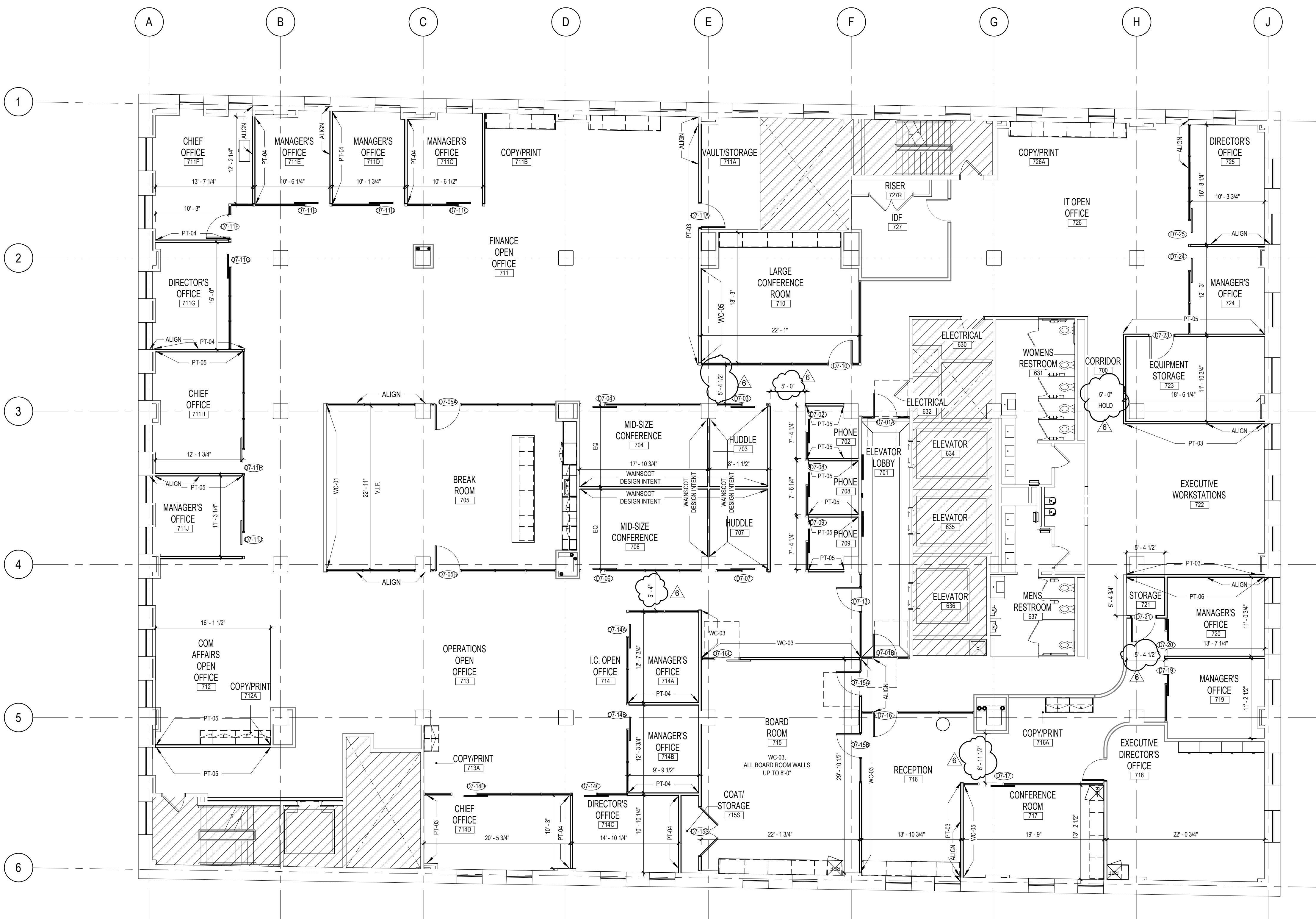
CONSULTANT:



HACP - Housing Authority of the City of Pittsburgh
 412 Boulevard of the Allies, Pittsburgh, PA 15219

DEMOUNTABLE PLAN NOTES

- REFER TO SHEET G010 FOR PROJECT GENERAL NOTES.
- REFER TO RESPONSIBILITY MATRIX ON SHEET G020 FOR ADDITIONAL CLARIFICATION REGARDING GC VS. DEMOUNTABLE PARTITION VENDOR SCOPE.



1 OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 07
 1/8" = 1'-0"

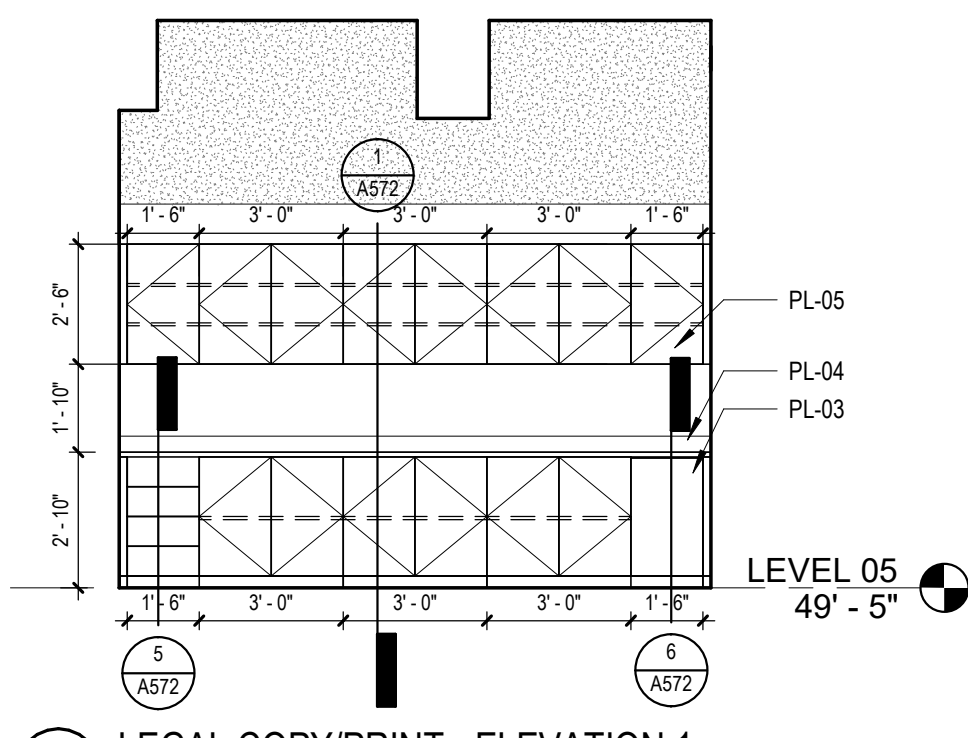
PLAN LEGEND

	EXISTING CONSTRUCTION
	DEMOUNTABLE WALL PARTITION
	NEW CONSTRUCTION
	ROOM NAME
	ROOM NUMBER
	ROOM TAG
	AREA
	DOOR TAG REFER TO SHEET A600-P1
	PARTITION TAG REFER TO SHEET A630
	KEYED NOTE VALUE
	KEYNOTE
	NOT IN SCOPE

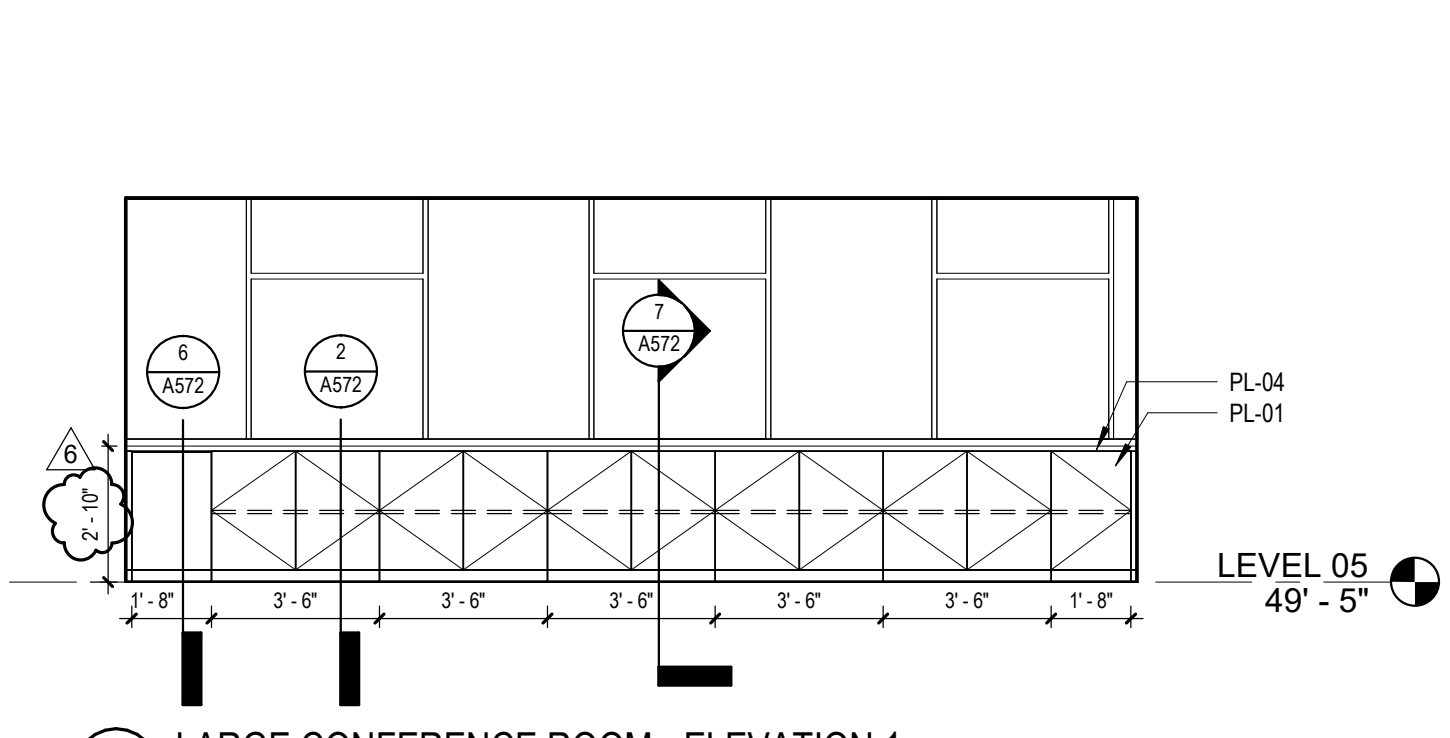
NO.	REVISION	DATE
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3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

PROJECT NO. 190427.00	DRAWN BY AE7	REVIEWED BY JW
SHEET NAME OVERALL DEMOUNTABLE WALL PARTITION PLAN - LEVEL 07		
SHEET NO. A157R		

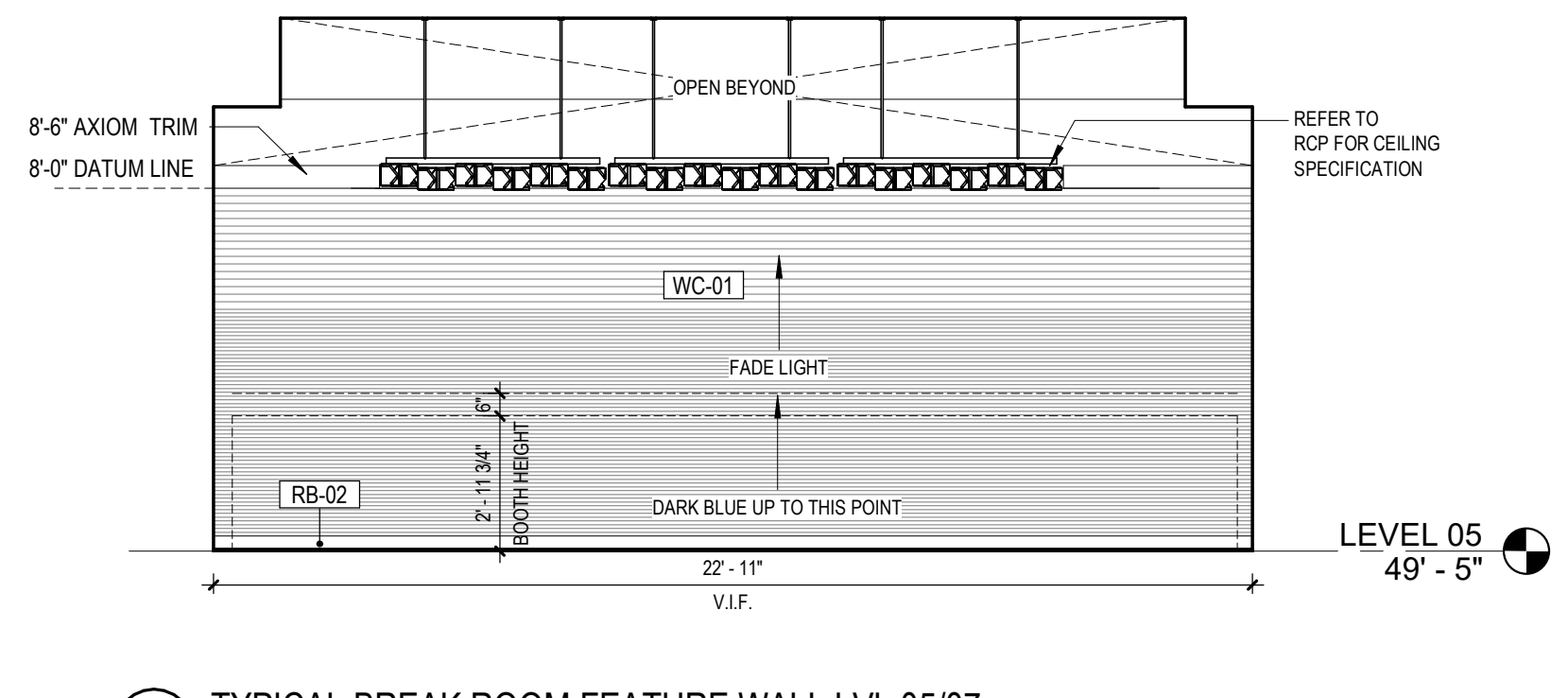
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 2/10/2021 6:03:21 PM



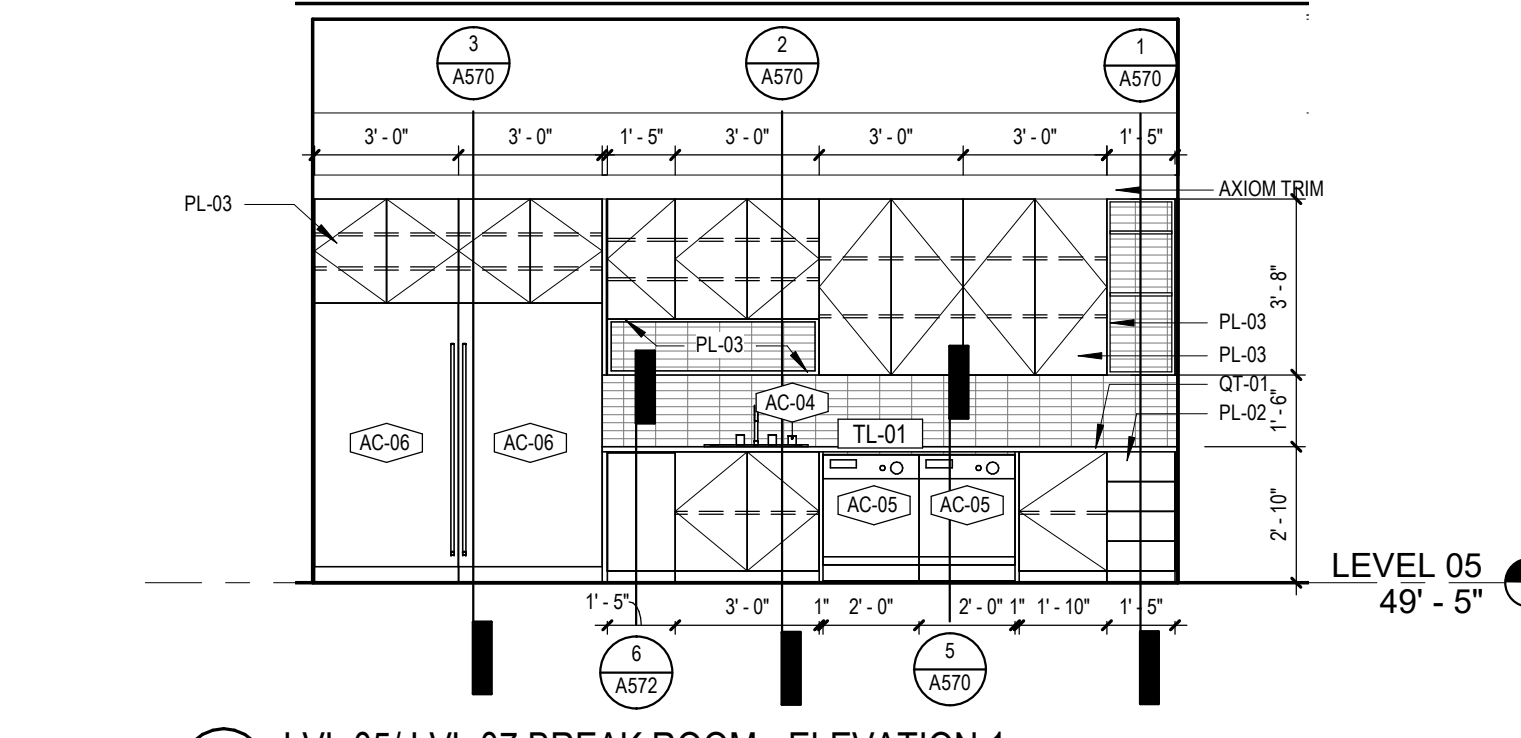
4 LEGAL COPY/PRINT - ELEVATION 1
1/4" = 1'-0"



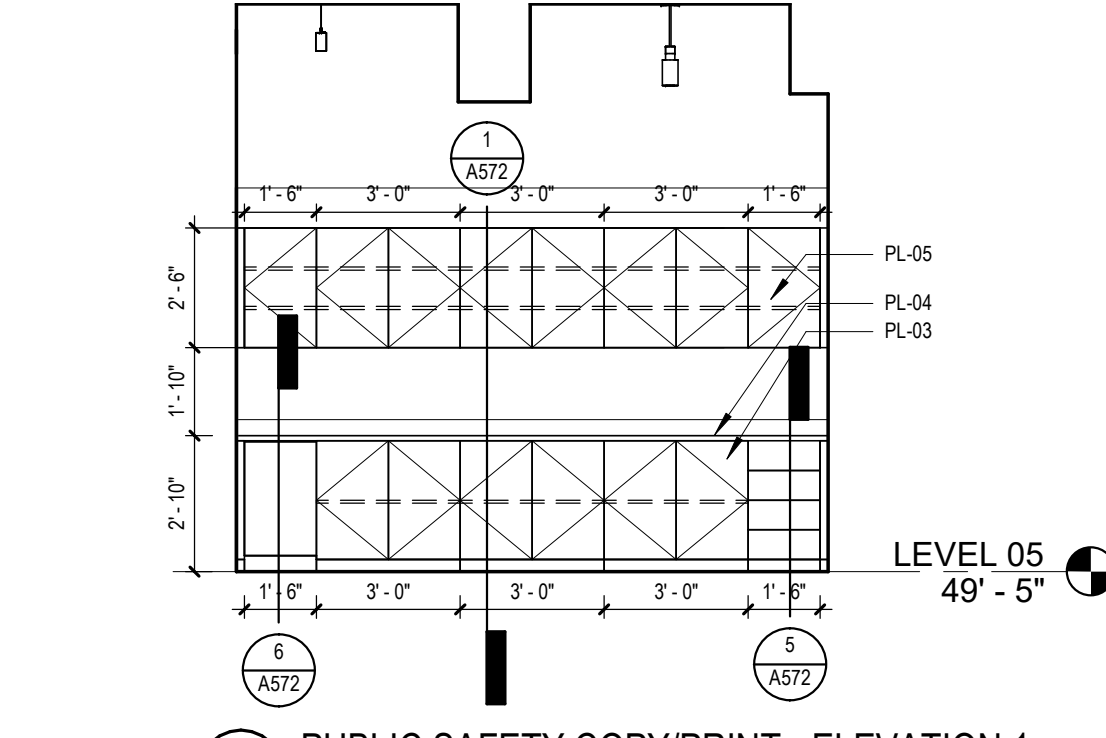
3 LARGE CONFERENCE ROOM - ELEVATION 1
1/4" = 1'-0"



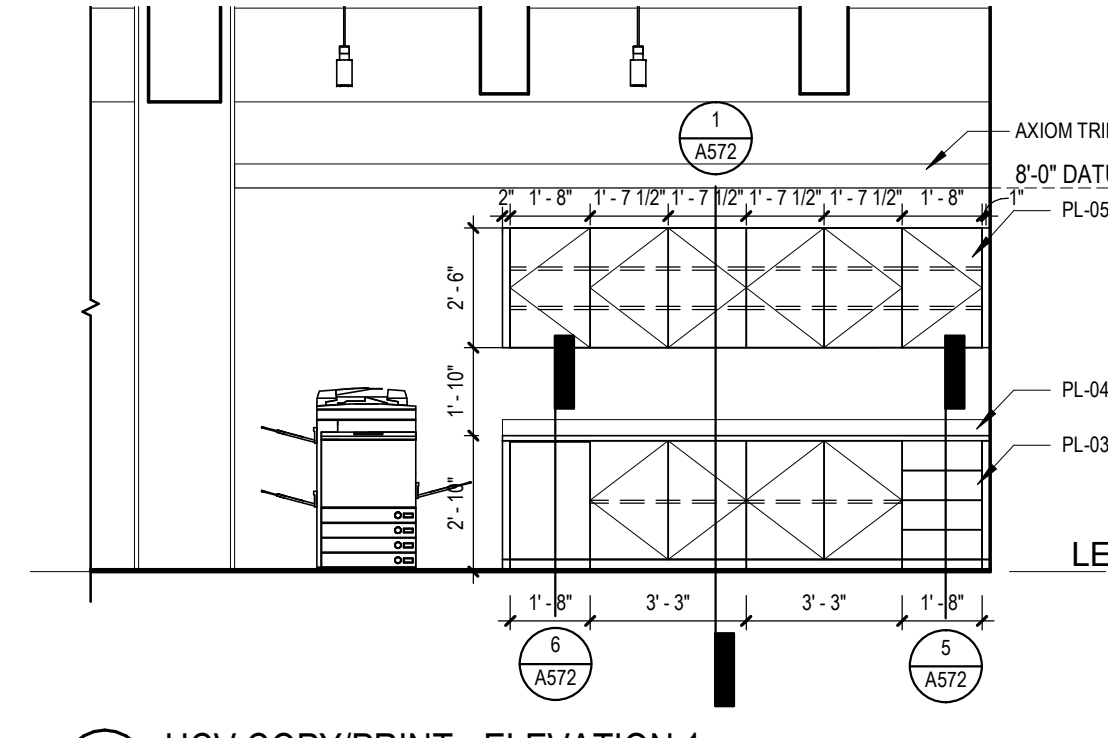
2 TYPICAL BREAK ROOM FEATURE WALL LVL 05/07
1/4" = 1'-0"



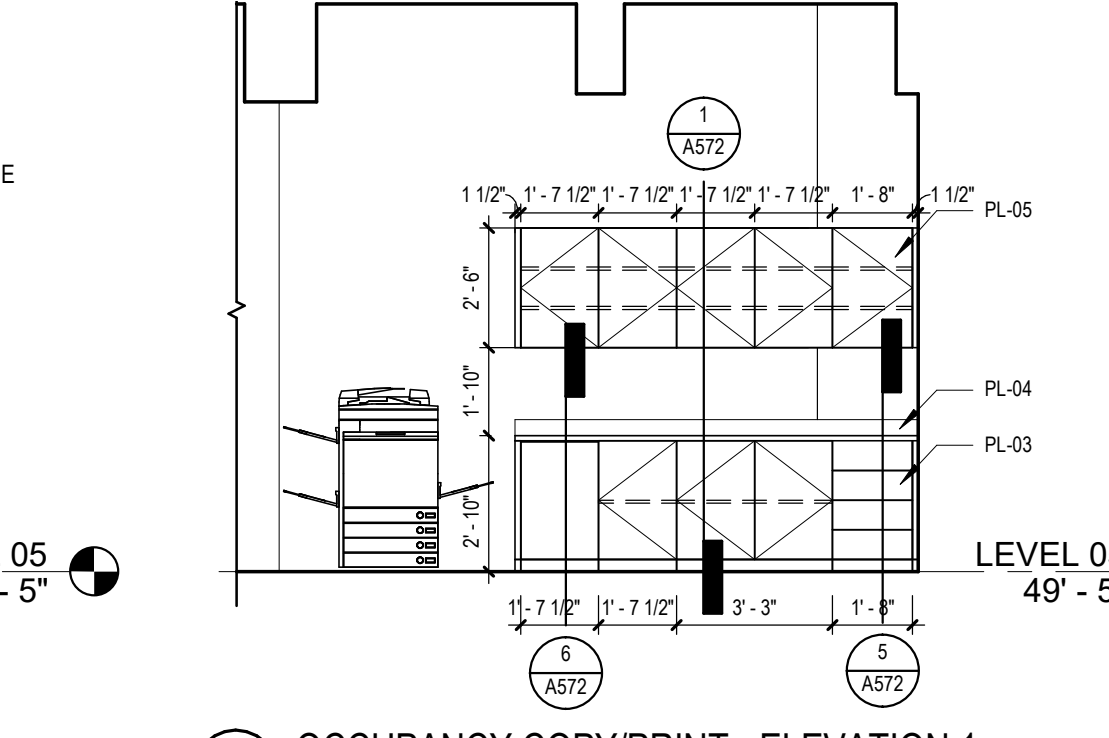
1 LVL 05/LVL 07 BREAK ROOM - ELEVATION 1
1/4" = 1'-0"



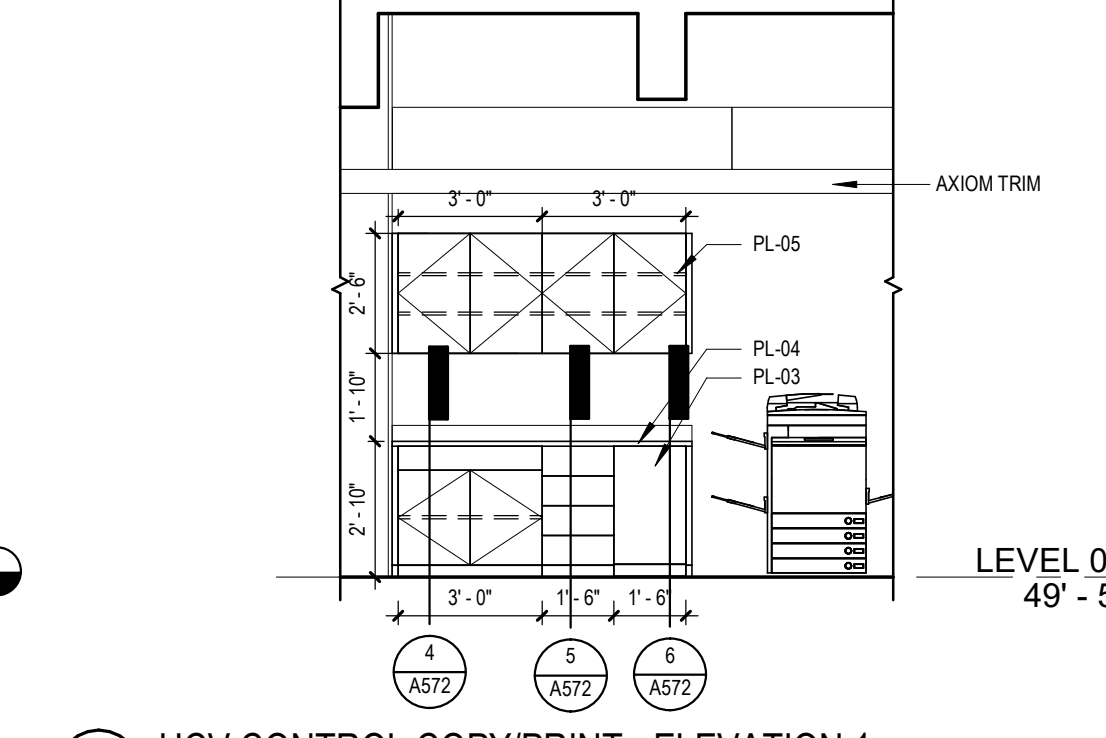
8 PUBLIC SAFETY COPY/PRINT - ELEVATION 1
1/4" = 1'-0"



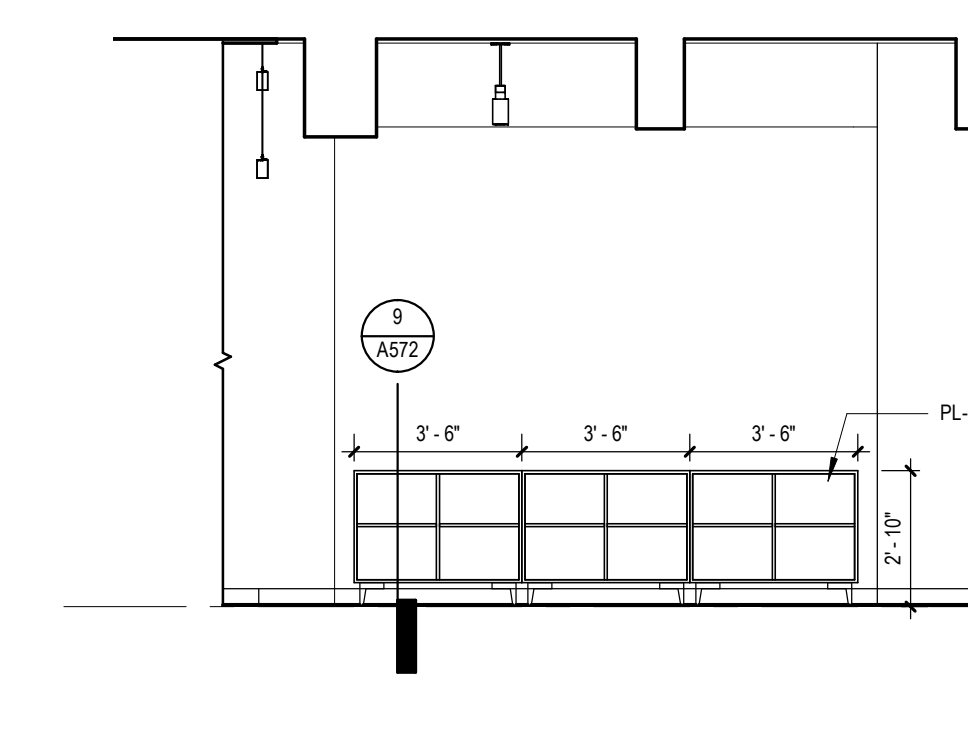
7 HCV COPY/PRINT - ELEVATION 1
1/4" = 1'-0"



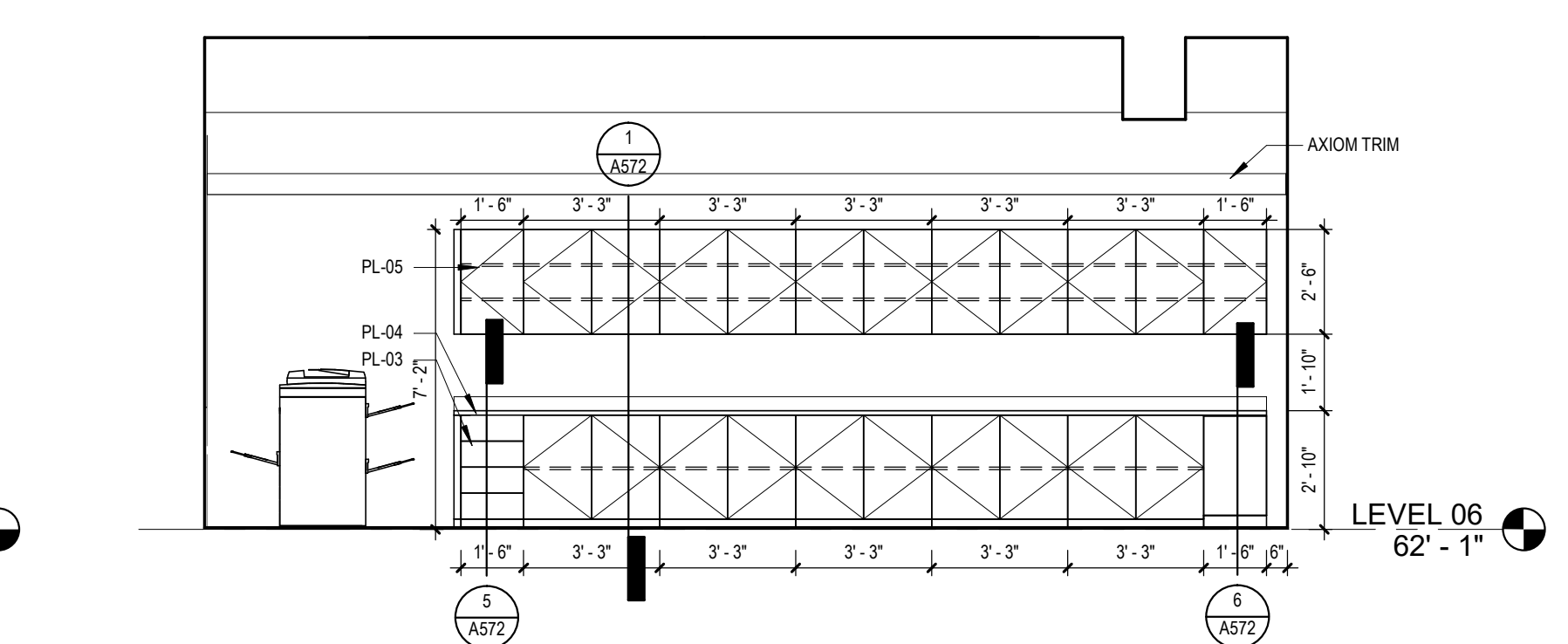
6 OCCUPANCY COPY/PRINT - ELEVATION 1
1/4" = 1'-0"



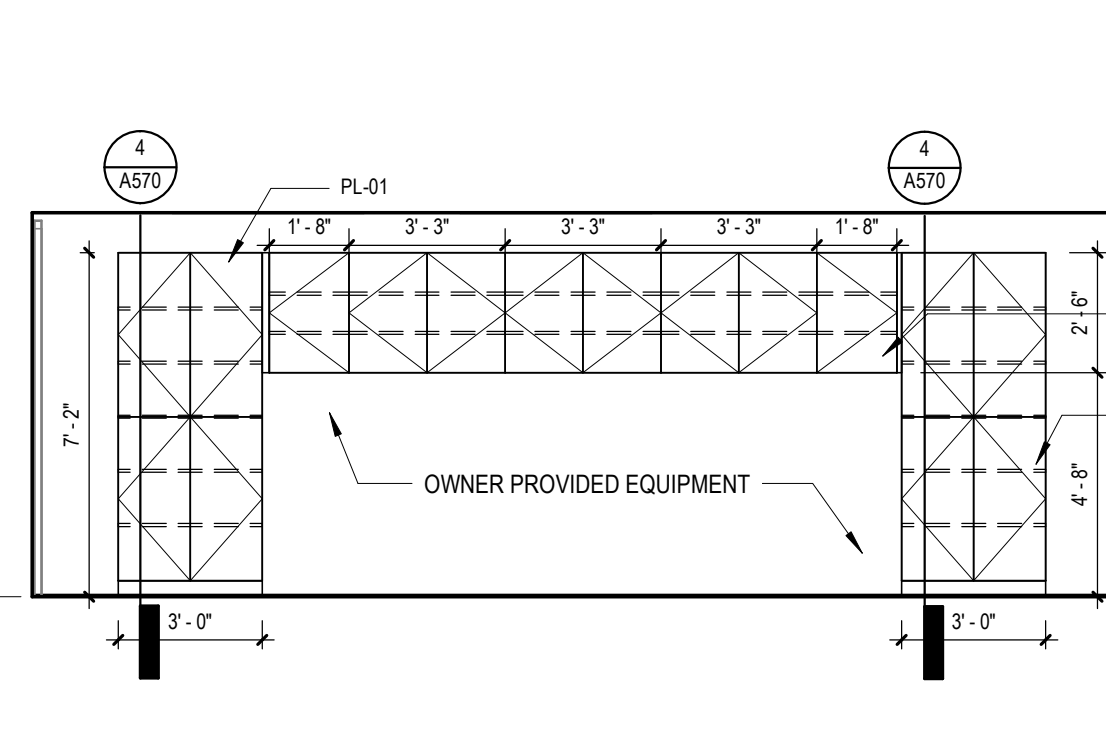
5 HCV CONTROL COPY/PRINT - ELEVATION 1
1/4" = 1'-0"



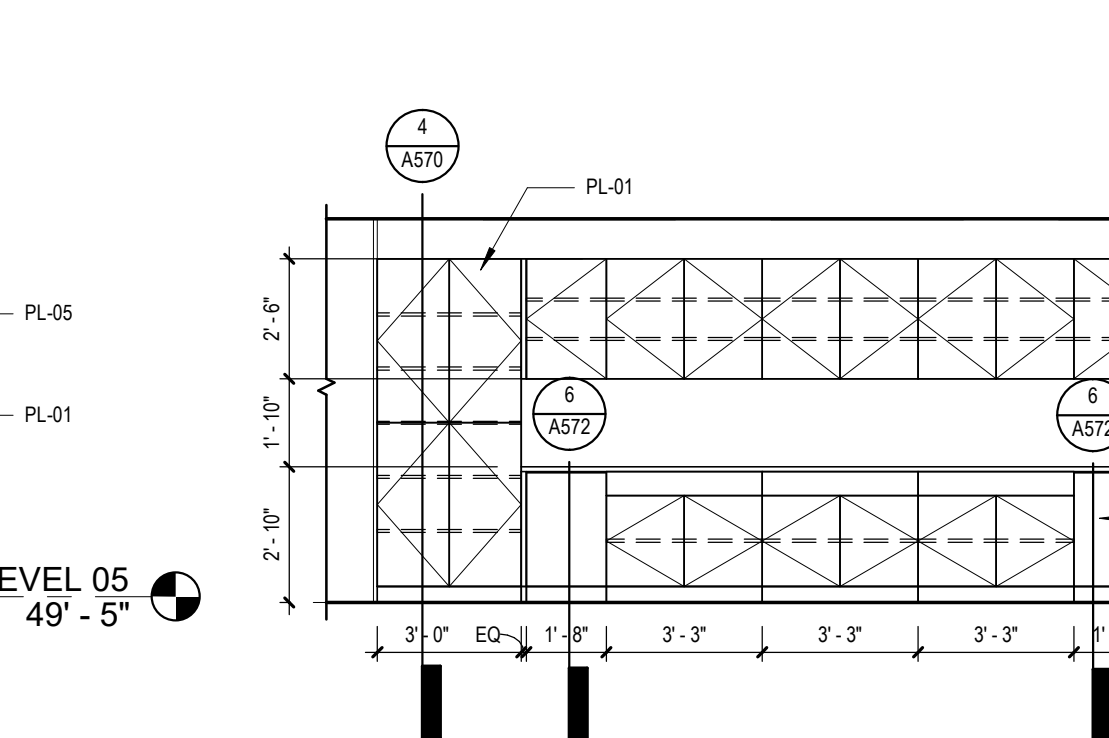
13 DEV/MOD SUPPLY STORAGE - ELEVATION 1
1/4" = 1'-0"



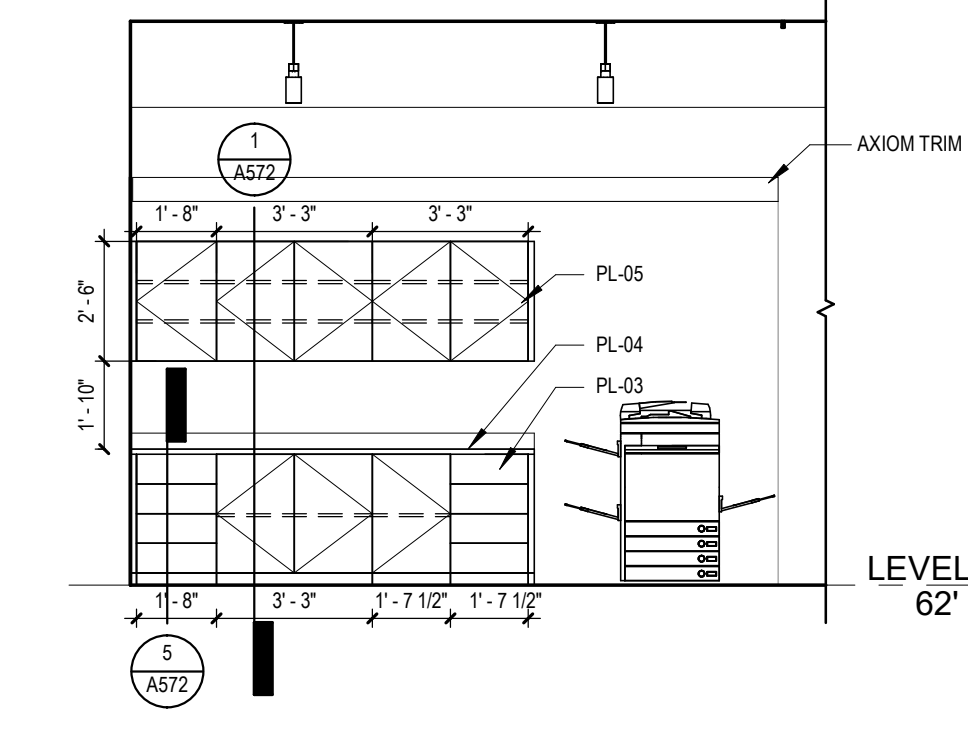
12 HR COPY/PRINT - ELEVATION 1
1/4" = 1'-0"



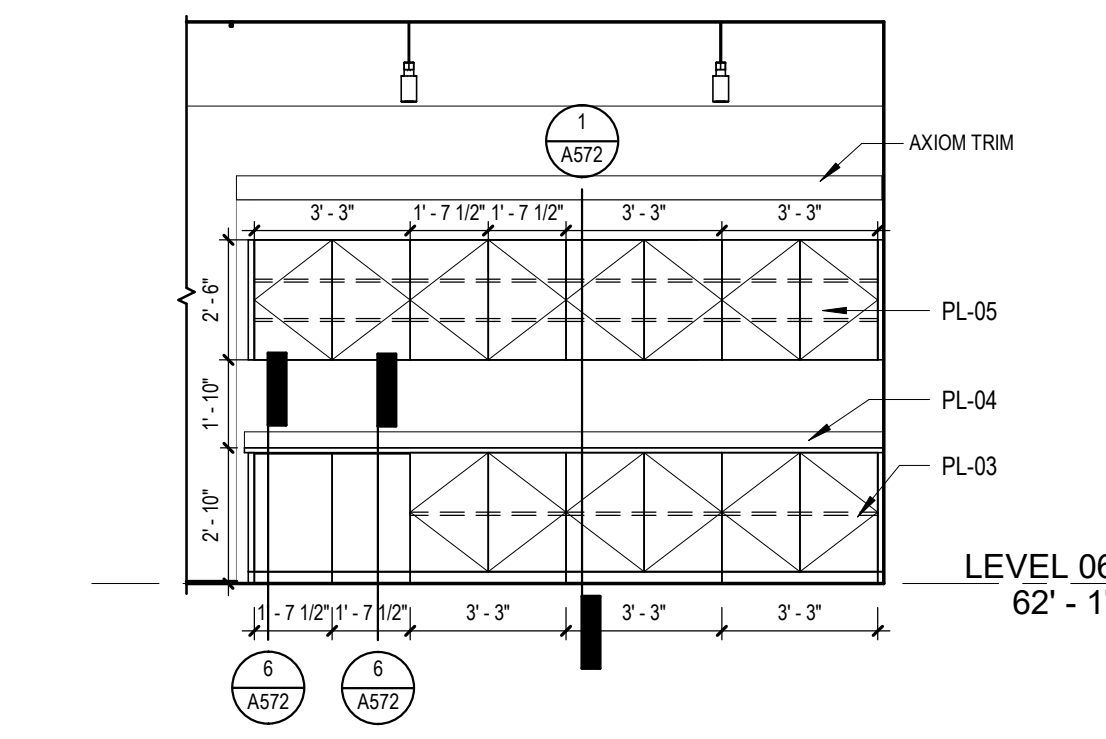
11 MAIL ROOM - ELEVATION 2
1/4" = 1'-0"



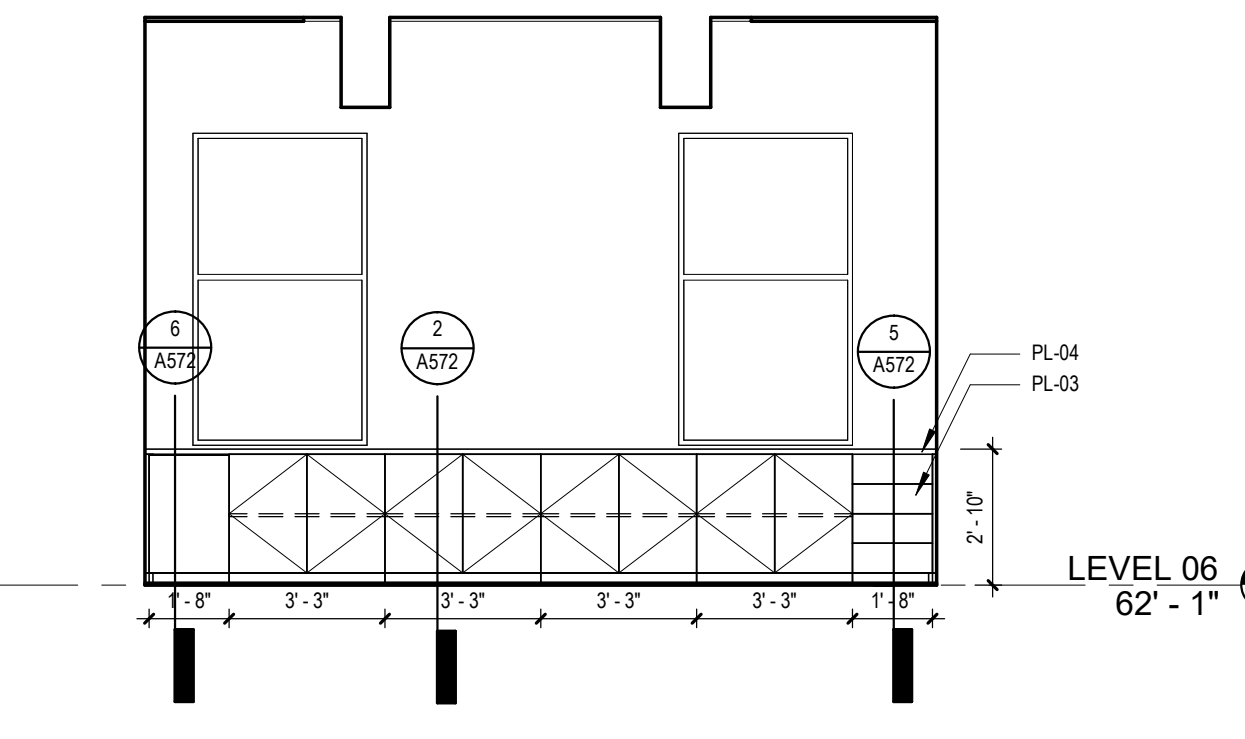
10 MAIL ROOM - ELEVATION 1
1/4" = 1'-0"



17 SHARED COPY/STORAGE ROOM - ELEVATION 2
1/4" = 1'-0"



16 SHARED COPY/STORAGE ROOM - ELEVATION 1
1/4" = 1'-0"



PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE TYPE	CW	CW SFU's	HW	HW SFU's	WASTE	WASTE DFUS	VENT	MANUFACTURER	MODEL NUMBER	FAUCET/FLUSH VALVE	ACCESSORIES	REMARKS
S-1	STAINLESS STEEL SINGLE BOWL UNDER MOUNT SINK - ADA ACCESSIBLE	1/2"	1.0	1/2"	1.0	1 1/2"	2	1 1/2"	ELKAY	LUSTERTONE SINK MODEL #ELUHAD161655-5.5" DEEP, 18 GAUGE	KOHLER PURIST FAUCET #K-7505-VS SINGLE HANDLE FAUCET WITH 8" REACH AND PULL OUT SPOUT; SINGLE HOLE MOUNT; VIBRANT STAINLESS STEEL FINISH ; WITH 1.5 GPM AERATOR FOR LEED	McGUIRE GRID DRAIN AND 17 GA TAILPIECE # 155A; McGUIRE 17 GA TRAP #9802CNC, McGUIRE QUARTER TURN SUPPLY VALVES #LFBV02-SS, TRUEBRO LAV-SHIELD #2018-AS-1	1, 2, 3, 4
S-2	STAINLESS STEEL DOUBLE BOWL UNDER MOUNT SINK - ADA ACCESSIBLE	1/2"	1.0	1/2"	1.0	1 1/2"	2	1 1/2"	ELKAY	LUSTERTONE SINK MODEL #ELUHAD321655-5.5" DEEP, 18 GAUGE	KOHLER PURIST FAUCET #K-7505-VS SINGLE HANDLE FAUCET WITH 8" REACH AND PULL OUT SPOUT; SINGLE HOLE MOUNT; VIBRANT STAINLESS STEEL FINISH ; WITH 1.5 GPM AERATOR FOR LEED	McGUIRE GRID DRAIN # 152L; TOMAHAWK #216-086 CHROME TAILPIECE WITH SIDE INLET; McGUIRE 17 GA TRAP #9812C15DF, McGUIRE QUARTER TURN SUPPLY VALVES #LFBV02-SS, TRAP INSULATION; KOHLER SOAP/LOTION DISPENSER #K-1995-VS VIBRANT STAINLESS STEEL FINISH	1, 2, 3, 4
WC-1	WALL HUNG WATER CLOSET	1"	10	---	---	4"	6	2"	AMERICAN STANDARD - ELONGATED	EXISTING CHINA FIXTURE TO REMAIN AND BE FITTED WITH NEW LOW FLOW FLUSH VALVE	AMERICAN STANDARD SELECTRONIC SENSOR OPERATED 4 YEAR BATTERY POWERED FLUSH VALVE #6065.121.002 - 1.28 GPF	MUST USE AMERICAN STANDARD PISTON STYLE FLUSH VALVE TO CONVERT TO LOW FLOW FIXTURE; PROVIDE NEW WHITE ELONGATED OPEN FRONT SEAT CHURCH MODEL #9500-SSCT SELF SUSTAINING STAINLESS STEEL CHECK HINGE.	1, 4
WC-2	WALL HUNG WATER CLOSET - ADA ACCESSIBLE	1"	10	---	---	4"	6	2"	AMERICAN STANDARD - ELONGATED	EXISTING CHINA FIXTURE TO REMAIN AND BE FITTED WITH NEW LOW FLOW FLUSH VALVE	AMERICAN STANDARD SELECTRONIC SENSOR OPERATED 4 YEAR BATTERY POWERED FLUSH VALVE #6065.121.002 - 1.28 GPF	MUST USE AMERICAN STANDARD PISTON STYLE FLUSH VALVE TO CONVERT TO LOW FLOW FIXTURE; PROVIDE NEW WHITE ELONGATED OPEN FRONT SEAT CHURCH MODEL #9500-SSCT SELF SUSTAINING STAINLESS STEEL CHECK HINGE.	1, 2, 4
U-1	WALL HUNG URINAL	1"	10	---	---	2"	4	2"	AMERICAN STANDARD	EXISTING CHINA FIXTURE TO REMAIN AND BE FITTED WITH NEW LOW FLOW FLUSH VALVE	AMERICAN STANDARD SELECTRONIC SENSOR OPERATED FLUSH VALVE #6063.051.002-0.5 GPF, BATTERY OPERATED	MUST USE AMERICAN STANDARD PISTON STYLE FLUSH VALVE TO CONVERT TO LOW FLOW FIXTURE; FACTORY INSTALLED 4 YEAR CR-P2 LITHIUM BATTERY; MANUAL OVERRIDE BUTTON	1, 4
U-2	WALL HUNG URINAL - ADA ACCESSIBLE	1"	10	---	---	2"	4	2"	AMERICAN STANDARD	EXISTING CHINA FIXTURE TO REMAIN AND BE FITTED WITH NEW LOW FLOW FLUSH VALVE	AMERICAN STANDARD SELECTRONIC SENSOR OPERATED FLUSH VALVE #6063.051.002-0.5 GPF, BATTERY OPERATED	MUST USE AMERICAN STANDARD PISTON STYLE FLUSH VALVE TO CONVERT TO LOW FLOW FIXTURE; FACTORY INSTALLED 4 YEAR CR-P2 LITHIUM BATTERY; MANUAL OVERRIDE BUTTON	1, 2, 4
L-1	EXISTING LAVATORY	1/2"	1.0	1/2"	1.0	1 1/2"	2	1 1/2"	EXISTING SINK BOWL TOR EMAIN	EXISTING SINK BOWL TO REMAIN	AMERICAN STANDARD NEXTGEN SELECTRONIC FAUCET MODEL #775B.305-0.5 GPM WITH #PK00.WRK 13 YEAR BATTERY POWER PACK; ASSE 1070 INTERNAL SMART THERM TEMPERATURE LIMITER; #775P.800 -8" METAL DECK PLATE	RECONNECT TO EXISTING SUPPLIES AND REUSE EXISTING TRAP WITH INSULATION WRAP.	1, 2
CM-1	COFFEE MAKER CONNECTION	1/2"	0.5	---	---	---	---	---	DAHL ANGLE SUPPLY STOP WITH HAMMER ARRESTER	211-53-31-14WHA	1/2" FEMALE IRON THREAD x 3/8" COMPRESSION OUTLET	QUARTER TURN BALL VALVE - CHROME PLATED	SEE DETAIL ON P301
WD-1	WATER DISPENSER CONNECTION	1/2"	0.5	---	---	---	---	---	DAHL ANGLE SUPPLY STOP WITH HAMMER ARRESTER	211-53-31-14WHA	1/2" FEMALE IRON THREAD x 3/8" COMPRESSION OUTLET	QUARTER TURN BALL VALVE - CHROME PLATED	SEE DETAIL ON P301
IM-1	ICE MAKER MAKER CONNECTION	1/2"	0.5	---	---	---	---	---	DAHL ANGLE SUPPLY STOP WITH HAMMER ARRESTER	211-53-31-14WHA	1/2" FEMALE IRON THREAD x 3/8" COMPRESSION OUTLET	QUARTER TURN BALL VALVE - CHROME PLATED	SEE DETAIL ON P301
DW-1	DISH WASHER CONNECTION	1/2"	0.5	---	---	---	---	---	DAHL ANGLE SUPPLY STOP WITH HAMMER ARRESTER	211-53-31-14WHA	1/2" FEMALE IRON THREAD x 3/8" COMPRESSION OUTLET	QUARTER TURN BALL VALVE - CHROME PLATED	SEE DETAIL ON P301
EWC-1	ELECTRIC WATER COOLER	1/2"	1.0	1/2"	1.0	1 1/2"	1	1 1/2"	ELKAY	MODEL # LZSG8	---	FURNISH WITH FILTER, BRASS TRAP AND AND QUARTER TURN STOP VALVE	1, 4
EWC-2	ELECTRIC WATER COOLER - ADA HEIGHT MOUNTED WITH BOTTLE FILL STATION	1/2"	1.0	1/2"	1.0	1 1/2"	1	1 1/2"	ELKAY	MODEL # LZSG8WSLK WITH BOTTLE FILL STATION	---	FURNISH WITH FILTER, BOTTLE FILL STATION, BRASS TRAP AND AND QUARTER TURN STOP VALVE	1, 2, 4

REMARKS:
 1. PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE FIXTURE ROUGH-IN, I.E., QUARTER TURN CONVERTIBLE SUPPLIES & STOPS - MCGUIRE #LFBV02-SS WITH BRAIDED STAINLESS STEEL SUPPLIES, TRAPS - MCGUIRE #9812C15DF, GRID DRAINS & TAILPIECES - MCGUIRE #152MN, NOT ALL REQUIRED COMPONENTS ARE SPECIFIED ABOVE.
 2. FIXTURES SHALL BE ADA COMPLIANT AND PROVIDED WITH ADA COMPLIANT ACCESSORIES. MOUNT AT ADA COMPLIANT ELEVATIONS. SEE ARCHITECTURAL PLAN FOR ELEVATIONS.
 3. PROVIDE MCGUIRE PRO-WRAP WHITE ANTI-MICROBIAL INSULATING WRAP ON EXPOSED UNDER ADA SINK SUPPLY AND WASTE PLUMBING.
 4. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE PLAN LOCATION DIMENSION REQUIREMENTS AND COORDINATE PLUMBING ROUGH-IN ACCORDINGLY.

ELECTRIC WATER HEATER SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER (BASIS OF DESIGN)	LOCATION	STORAGE VOLUME	GPH RECOVERY @ 90 DEG F RISE	POWER	VOLTAGE	EFFICIENCY	NOTES
WH-1	ELECTRIC WATER HEATER	A. O. SMITH MODEL #DEL-20	ABOVE 5th FLR CEILING AT ROOM 506	20 GALLONS	23 GALLONS	5.0 KW - 24.0 AMPS	208 VOLT, 1 PHASE	98%	1, 2, 3, 4, 5
WH-2	ELECTRIC WATER HEATER	A. O. SMITH MODEL #DEL-20	ABOVE 6th FLR CEILING AT ROOM 625C	20 GALLONS	23 GALLONS	5.0 KW - 24.0 AMPS	208 VOLT, 1 PHASE	98%	1, 2, 3, 4, 5
WH-3	ELECTRIC WATER HEATER	A. O. SMITH MODEL #DEL-20	ABOVE 7th FLR CEILING AT ROOM 706	20 GALLONS	23 GALLONS	5.0 KW - 24.0 AMPS	208 VOLT, 1 PHASE	98%	1, 2, 3, 4, 5

NOTES -
 1. PROVIDE EXPANSION TANK REFER TO EXPANSION TANK SCHEDULE ON THIS DRAWING.
 2. THIS WATER HEATER IS TO BE MOUNTED ABOVE CEILING WITH PRE-MANUFACTURED DRAIN PAN AND SUPPORT - SEE DETAIL.
 3. PROVIDE HEAT TRAPS ON WATER HEATER IF NOT INTEGRAL TO HEATER.
 4. DISCONNECT BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
 5. ACCEPTABLE MANUFACTURERS - A.O. SMITH, BRADFORD WHITE, LOCHINVAR.

EXPANSION TANK SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER (BASIS OF DESIGN)	LOCATION	TANK SIZE	ACCEPTANCE VOLUME	NOTES
ET-1	DOMESTIC WATER EXPANSION TANK	AMTROL ST-5	ONE AT EACH WATER HEATER WH-1, 2, 3	2 GALLONS	0.9 GALLONS	1, 2

NOTES -
 1. WORKING PRESSURE - 150 PSIG.
 2. MAXIMUM SYSTEM TEMPERATURE - 140 DEG F.
 3. ACCEPTABLE MANUFACTURERS - WESSELS, WATTS

PUMP SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & MODEL NUMBER (BASIS OF DESIGN)	MODEL NUMBER	LOCATION	FLOW RATE	HEAD PRESSURE	POWER	VOLTAGE	NOTES/ACCESSORIES
CP-1	120 DEGREE CIRCULATION PUMP	BELL & GOSSETT	NBF-12U/LW	AT 6th FLR WATER HEATER	2 GPM	11 FEET	55 WATTS	120 VOLT, 1 PHASE	BRONZE CONSTRUCTION, 24 HR TIME CLOCK, CIRCUIT SETTER VALVE, TC-1 TIMER KIT, PILOT LIGHT SWITCH

MIXING VALVE SCHEDULE

MARK	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NUMBER	OPTIONS/NOTES	LOAD RANGE
MV-1	120 DEG TO 105 DEG FOR PUBLIC LAVATORIES	UNDER HAND SINKS	"BRADLEY VERNATHERM MODEL # S59-4008"	ADJUSTABLE SET POINT, INTEGRAL STRAINERS ON SUPPLY INLET, BRONZE FINISH, MOUNTING BRACKET, PROVIDED IN ACCESS PANEL	2.5 GPM AT 5 PSI DROP

PLUMBING GENERAL NOTES:

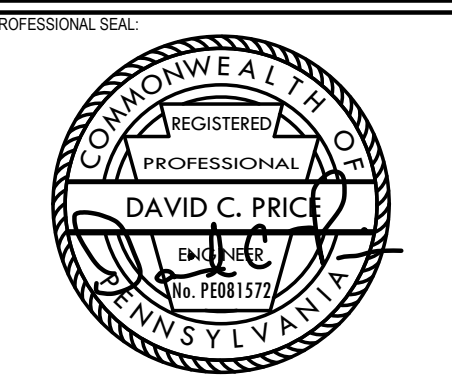
- CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.), GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.
- OBTAIN PERMITS AND PAY ALL FEES. ARRANGE FOR ALL REQUIRED TESTS, INSPECTIONS AND APPROVALS.
- FURNISH ALL PLUMBING FIXTURES, EQUIPMENT AND MATERIAL INDICATED AND SHOWN ON DRAWINGS AND INSTALL COMPLETE AND PLACE IN PROPER OPERATION.
- PROVIDE SANITARY WASTE AND VENT PIPING AND SANITARY SEWER AND EXTEND TO EXISTING BUILDING FACILITIES. CONTRACTOR SHALL MAKE THE TIE-INS TO THE EXISTING SERVICES WHERE INDICATED ON DRAWINGS. EXISTING LINE SIZES, CONDITIONS, INVERT ELEVATIONS, AND CAPACITIES SHALL BE FIELD VERIFIED. CLEAN AND TEST PIPING FOR PROPER OPERATION BEFORE FINAL CONNECTION FOR ALL UTILITIES. IMMEDIATELY REPORT TO THE ARCHITECT OR ENGINEER ANY INSTANCES WHERE CONNECTIONS CANNOT BE MADE BETWEEN NEW AND EXISTING SYSTEMS AS INDICATED ON PLANS. NO EXTRA COMPENSATION WILL BE GRANTED FOR NEW WORK THAT MUST BE ABANDONED AND REPLACED BECAUSE LOCATION AND ELEVATION OF EXISTING WAS NOT DETERMINED BEFORE STARTING NEW WORK.
- EXTEND DOMESTIC WATER FROM EXISTING BUILDING FACILITIES AS INDICATED ON DRAWINGS. INSTALL DOMESTIC WATER DISTRIBUTION PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRING SAME. INCLUDE ALL FITTINGS, VALVES, HANGERS, INSULATION, AND OTHER ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- PROVIDE PLUMBING FIXTURES, DRAINS AND EQUIPMENT WITH ALL PLUMBING CODE REQUIRED TRIM, CONTROLS AND ACCESSORIES.
- INSULATE HOT AND COLD WATER PIPING PER ASHRAE GUIDELINES - MINIMUM OF 1 INCH THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET.
- SEWERS TO BE PITCHED A MINIMUM OF 1/4" PER FOOT FOR SIZES 3" AND UNDER, AND 1/8" PER FOOT FOR SIZES 4" AND LARGER OR TO GRADES INDICATED ON DRAWINGS.
- CHANGES IN DIRECTION AND BRANCH CONNECTIONS SHALL BE MADE WITH APPROVED DRAINAGE FITTINGS COMPATIBLE WITH THE PIPING SYSTEM MATERIAL IN WHICH IT IS INSTALLED.
- FIXTURES AND SANITARY DRAINS SHALL BE VENTED AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH CODE. VENTS ARE TO BE EXTENDED TO EXISTING BUILDING FACILITIES OR UP THROUGH ROOF.
- THIS PROJECT HAS A RETURN AIR PLENUM AND PVC SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS. USE NO-HUB CAST IRON, DWV COPPER ASTM B306 PIPING, OR PRESS FIT STAINLESS STEEL PIPING IN PLENUMS.
- EXISTING PVC PIPING IN PLENUM CELLINGS SHALL BE INSULATED TO MEET PLENUM RATINGS. IF FOUND IN PLENUM, NOTIFY THE ARCHITECT.
- INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY APOLLO, NIBCO, WATTS, CRANE OR OTHER APPROVED MANUFACTURER. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.
- HANGERS ON INSULATED PIPE SHALL BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH SUFFICIENT SADDLE TO PROTECT INSULATION.
- FLUSH, VENT AND SANITIZE ALL WATER PIPING WITH EQUIVALENT SOLUTION OF 50 PPM OF AVAILABLE CHLORINE UPON COMPLETION. COMPLY WITH PLUMBING CODE REQUIREMENTS FOR SANITIZATION.
- COORDINATE FINAL PIPE ROUTING WITH ARCHITECT AND OTHER TRADES.
- NO WORK SHALL BE INSTALLED UNTIL ALL TRADES HAVE SIGNED OFF ON THE

- COORDINATION DRAWINGS AND THE COORDINATION DRAWINGS ARE APPROVED BY THE ARCHITECT.
- COORDINATE AND FIELD VERIFY SANITARY PIPE ROUTING WITH OWNER ON THIS FLOOR AND FLOOR BELOW. DUE TO UNKNOWN CONDITIONS IN THE CEILING OF SPACE BELOW THIS FLOOR, PIPING MAY BE RE-ROUTED TO MISS CONFLICTS WITH DUCTWORK AND STRUCTURE.
 - NEW SUPPLY BRANCH LINES MAY USE "PRESS TYPE" HEAVY DUTY HIGH COMPRESSION COPPER FITTINGS AND COUPLINGS WITH O-RING SEALS OR TRADITIONAL LEAD-FREE SOLDER JOINTS AND FITTINGS. TEE-DRILL FITTINGS WITH BRAZED JOINTS ARE PERMITTED AT THE SUPPLY MANIFOLDS BEHIND BANKS OF PLUMBING FIXTURES.
 - THE INDICATED SCOPE OF THE DRAWINGS ARE FOR GUIDANCE ONLY AND REPRESENTS THE LIMIT OF GENERAL CONSTRUCTION WORK. THIS CONTRACTOR MAY BE REQUIRED TO DO WORK IN AREAS OUTSIDE OF THIS SCOPE WHERE NECESSARY TO DEMOLISH, INSTALL NEW SYSTEMS OR EXTEND TO EXISTING SYSTEMS IN ORDER TO PERFORM THE WORK INDICATED ON THESE DRAWINGS. COORDINATE WITH OWNER'S REPRESENTATIVE TO GAIN ACCESS TO ADJOINING SPACES AND TO MINIMIZE DISRUPTION OF SERVICES.

PLUMBING DEMOLITION NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLUMBING RELATED DEMOLITION WORK. VERIFY WITH ARCHITECT ALL WALLS, PARTITIONS, CEILINGS, ETC. THAT ARE TO BE REMOVED.
- DEMOLITION SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER, PRIOR TO BEGINNING CONSTRUCTION.
- DEMOLITION WORK SHALL BE REMOVED COMPLETELY INCLUDING ALL ASSOCIATED APPURTENANCES. UNDER NO CIRCUMSTANCES SHALL WORK BE LEFT ABANDONED IN PLACE, UNLESS OTHERWISE SPECIFIED. REMOVE ALL UNUSED PIPING AND HANGERS AND DISCARD.
- ANY SALVAGEABLE MATERIAL AT THE REQUEST OF THE OWNER SHALL BE RETURNED TO THE OWNER DURING DEMOLITION.
- CAP ALL PIPE CUT OR DISMANTLED DURING DEMOLITION TO MAINTAIN SYSTEM INTEGRITY. CAP BRANCHES AT MAINS TO PREVENT DEAD LEGS. PATCH HOLES IN FLOORS AND WALLS TO MATCH EXISTING - COORDINATE WITH GC.
- THE PIPING SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC AND SHOWS THE BASIC ROUTING OF THE MAINS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING PIPING BOTH FOR SIZE AND LOCATION. EXISTING PIPING MAY BE REUSED WHERE PRACTICAL. FIELD VERIFY BEST ROUTING FOR NEW PIPING INSTALLATIONS AND MAKE NECESSARY ADJUSTMENTS IN THE FIELD.

PLUMBING LEGEND					
SYMBOL	ABRV.	DESCRIPTION	SYMBOL	ABRV.	DESCRIPTION
	SAN	SANITARY PIPING			PIPE UP
	KW	KITCHEN WASTE PIPING (TO GREASE INTERCEPTOR)			PIPE DOWN
	ST	STORM PIPING (PRIMARY)			PIPE TEE DOWN
	OD	SECONDARY / OVERFLOW DRAIN PIPING			PIPE UNION
	V	VENT PIPING			PIPE CAP
	CW	COLD WATER PIPING			PIPE TRAP
	HW	HOT WATER PIPING			BALL VALVE
	HWR	HOT WATER RETURN PIPING			BALL VALVE OR SHUTOFF VALVE IN RISE
	TP	TRAP PRIMER PIPING			GLOBE VALVE
	G	GAS PIPING (NATURAL OR PROPANE)			BUTTERFLY VALVE
	FO	FUEL OIL PIPING			GATE VALVE
	S	SPRINKLER PIPING			GAS COCK
	CD	CONDENSATE DRAIN PIPING			MIXING VALVE
		PIPING ROUTED BELOW GRADE / SLAB (LINE TYPE INDICATES SERVICE TYPE UNO)			VACUUM RELIEF VALVE
	EX	EXISTING PIPING TO REMAIN - (X) DESIGNATES SERVICE			VACUUM BREAKER
	RX	EXISTING PIPING TO BE REMOVED - (X) DESIGNATES SERVICE			GAS SOLENOID VALVE
	VAC	MEDICAL VACUUM PIPING			BALANCING VALVE
	MA	MEDICAL AIR PIPING			PRESSURE REDUCING VALVE
	OXY	OXYGEN PIPING			PRESSURE REGULATING VALVE
	HEX	HELIX PIPING			CHECK VALVE
	N	NITROGEN PIPING			STRAINER
	CA	COMPRESSED AIR PIPING			TEMPERATURE AND PRESSURE RELIEF VALVE
	AV	ACID VENT PIPING			BACK FLOW PREVENTER
	AW	ACID WASTE PIPING			PRESSURE GAUGE
	CO2	CARBON DIOXIDE PIPING			THERMOMETER
	MAI	MEDICAL AIR INTAKE PIPING			AQUASTAT
	MVD	MEDICAL VACUUM DISCHARGE PIPING			HOT WATER RECIRC. PUMP
	NO	NITROUS OXIDE PIPING			INTERIOR HOSE BIBB OR HOSE END DRAIN VALVE
	PD	PUMP DISCHARGE			EXTERNAL WALL HYDRANT
	WAGD	WASTE ANESTHETIC GAS DISCHARGE			DOMESTIC SHOCK ABSORBER/WATER HAMMER ARRESTER; TEXT DENOTES SIZE (PDI: A - F)
		MEDICAL GAS OUTLET (LETTER DESIGNATES GAS TYPE)			CLEAN OUT, FLOOR
					CLEAN OUT, EXPOSED
					FLOOR DRAIN
					ROOF DRAIN
					FLOOR DRAIN WITH TRAP PRIMER
					FLOOR SINK/RECEPTOR WITH HALF GRATE
	OS&Y	OS&Y VALVE			OS&Y VALVE
	T.S.	OS&Y VALVE WITH TAMPER SWITCH			OS&Y VALVE WITH TAMPER SWITCH
					FIRE DEPARTMENT SIAMESE CONNECTION
					FIRE PUMP TEST HEADER
					FIRE HOSE VALVE CABINET
	IE XXX	INVERT ELEVATION B.F.F. (IN FEET)			
	XX	KITCHEN EQUIPMENT DESIGNATION; REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DETAILS			
		UTILITY METER			
		CONNECT TO EXISTING			
		DISCONNECT FROM EXISTING			
		FLEXIBLE PIPE CONNECTION			



CONSULTANT:
Allen & Shariff
 DESIGN | BUILD | MANAGE
 Allen & Shariff Engineering, LLC
 700 River Avenue, Suite 600
 Pittsburgh, PA 15212
 Tel: 412.322.9280

CLIENT:
Housing Authority
 of the City of Pittsburgh
 200 Ross St. Pittsburgh, PA 15219
 (412) 456-5000
 hapc.org

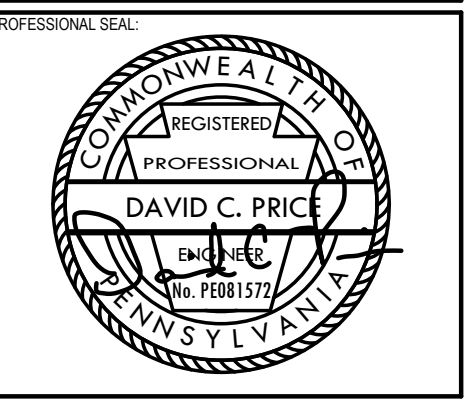
HACP - Housing Authority of the City of Pittsburgh
 412 Boulevard of the Allies, Pittsburgh, PA 15219

NO.	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #4	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #3	07/09/2020
2	100% CONSTRUCTION DOCUMENTS REVISION #2	05/22/2020
1	100% DESIGN DEVELOPMENT	01/22/2020
#	DESCRIPTION	DATE

PROJECT NO. 190427.00
 DRAWN BY: TJT
 REVIEWED BY: DCP

PLUMBING DATA SHEET

SHEET NO. **P-001R**

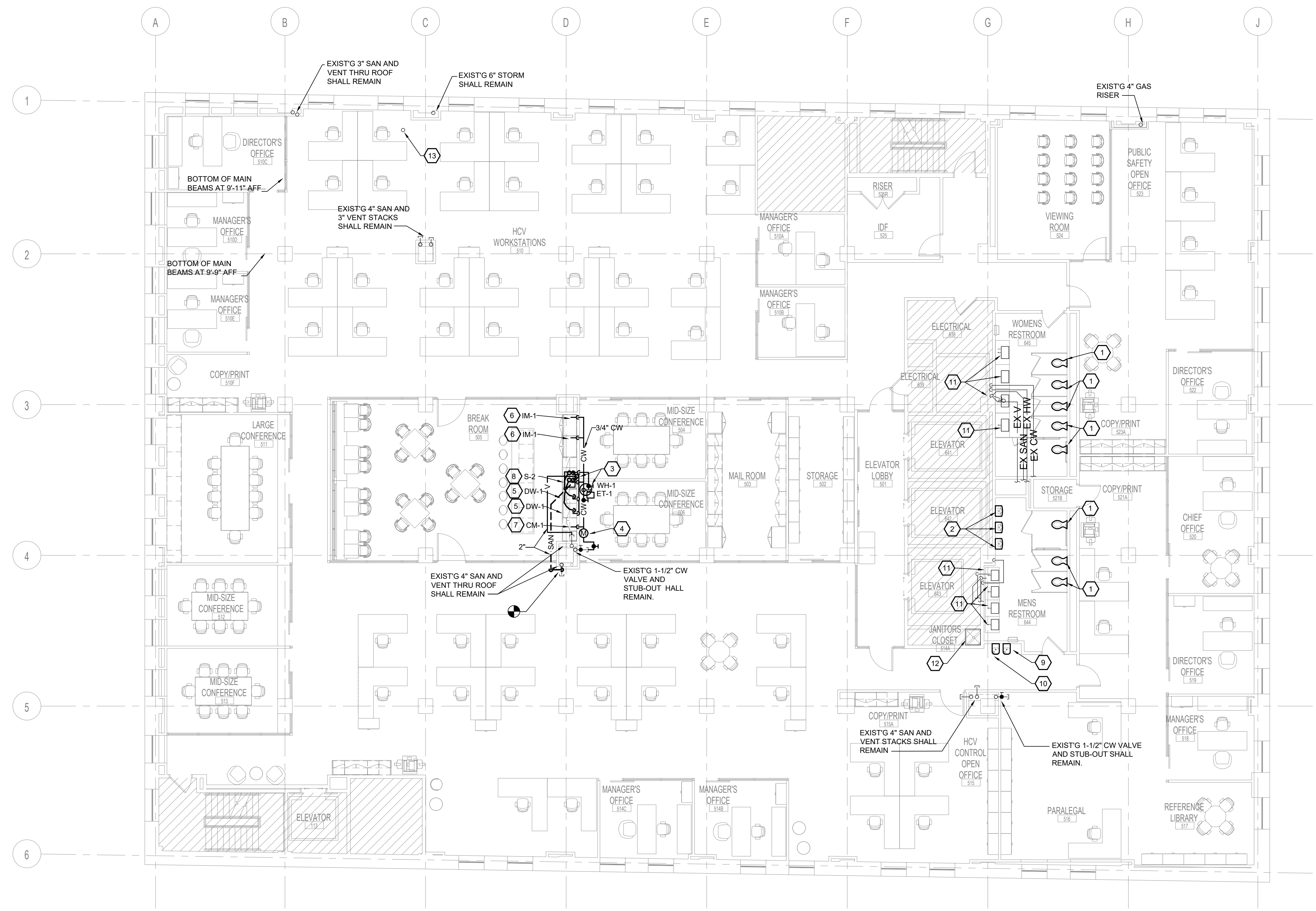


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Allen & Shariff
 DESIGN | BUILD | MANAGE
 Allen & Shariff Engineering, LLC
 700 River Avenue, Suite 600
 Pittsburgh, PA 15212
 Tel: 412.322.9280

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Housing Authority
 of the City of Pittsburgh
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 (412) 456-5000
 hap.org

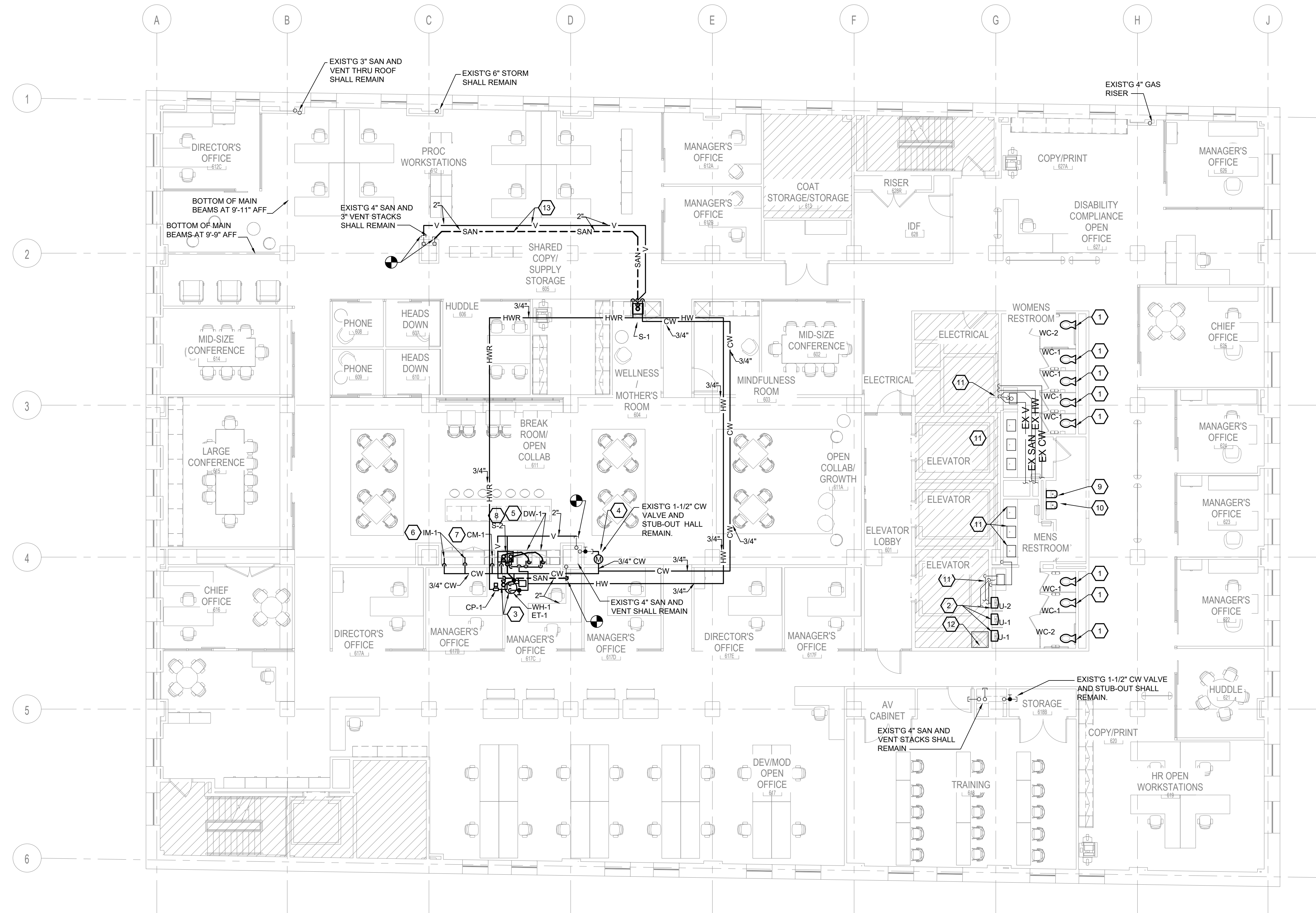
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- PLUMBING KEY NOTES:** (#)
- EXISTING LOW FLOW 1.28 GPF WATER CLOSET WITH MANUAL OPERATED 1.28 GPF WATER CLOSET FLUSH VALVE RECENTLY INSTALLED SHALL REMAIN IN THIS LOCATION AND CONTINUE IN USE. REPLACE THE MANUAL FLUSH VALVE WITH NEW BATTERY OPERATED UNIT LISTED FOR WC-1 IN THE FIXTURE SCHEDULE.
 - EXISTING RECENTLY INSTALLED LOW FLOW 0.5 GPF BATTERY OPERATED PISTON STYLE URINAL FLUSH VALVE SHALL REMAIN AT THIS LOCATION AND CONTINUE IN USE.
 - PROVIDE NEW ELECTRIC WATER HEATER ABOVE CEILING WITH SUPPORT PLATFORM. EXTEND 3/4" COLD AND HOT WATER TO HEATER CONNECTION PORTS. PROVIDE WITH EXPANSION TANK ON COLD WATER SUPPLY LINE. EXTEND HEATER DRAIN AND T&P VALVE DRAIN TO SAFE WASTE RECESSED IN WALL BOX. SEE DETAIL.
 - PROVIDE 3/4" WATER METER WITH REMOTE READER TO COMPLY WITH LEED REQUIREMENTS OF TENANT WATER METERING. MOUNT METER ABOVE CEILING AND REMOTE READER IN LOCATION SELECTED BY ARCHITECT ON SITE. METER SHALL BE EQUAL TO A NEPTUNE AQUITY MODEL 3/4" X 5/8" WITH E-CODE READER.
 - EXTEND DISHWASHER DRAIN HOSE TO UNDERSIDE OF COUNTER TOP AND ANCHOR PRIOR TO EXTENDING AND CONNECTING TO SINK TAIL PIECE WITH SIDE INLET CONNECTION.
 - PROVIDE RECESSED WALL BOX WITH ICE MAKER CONNECTION SHUT OFF VALVE WITH INTEGRAL SHOCK ARRESTOR.
 - PROVIDE CHROME PLATED COFFEE MAKER SHUT OFF VALVE WITH INTEGRAL SHOCK ARRESTOR IN BASE CABINET UNDER COFFEE MAKER. EXTEND BRAIDED STAINLESS STEEL FLEX HOSE FROM SHUT OFF VALVE TO COFFEE MAKER.
 - PROVIDE DOUBLE BOWL STAINLESS STEEL UNDER COUNTER MOUNTED KITCHEN SINK WITH CHROME PLATED SINGLE LEVER FAUCET WITH PULL-OUT SPRAY HOSE TYPE SPOUT. INCLUDE TAIL PIECES WITH SIDE INLET FOR DISHWASHER CONNECTION AT EACH BOWL.
 - EXISTING RECENTLY INSTALLED ELECTRIC WATER COOLER AT STANDARD MOUNTING HEIGHT SHALL REMAIN AT THIS LOCATION AND CONTINUE IN USE.
 - EXISTING RECENTLY INSTALLED ELECTRIC WATER COOLER MOUNTED AT ADA ACCESSIBILITY HEIGHT SHALL REMAIN AT THIS LOCATION AND CONTINUE IN USE.
 - EXISTING COUNTER TOP MOUNTED LAVATORY SINK AND FAUCET SHALL REMAIN AND CONTINUE IN USE.
 - EXISTING JANITOR MOP SINK SHALL REMAIN AT THIS LOCATION AND CONTINUE IN USE.
 - DISCONNECT AND REMOVE EXISTING WATER CLOSET FLOOR FLANGE AT THIS APPROXIMATE LOCATION - FIELD VERIFY EXACT LOCATION. REMOVE BRANCH LINE BACK TO MAIN AND CAP.



1 5TH FLOOR PLUMBING PLAN
 P-202 1/8" = 1'-0"

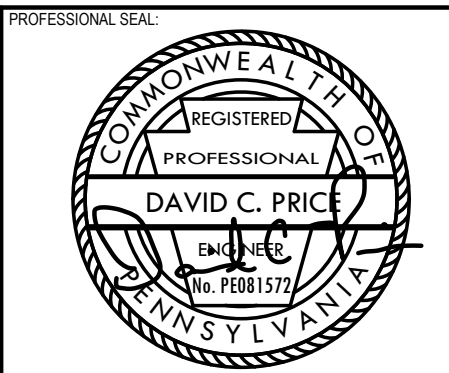
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PROJECT ISSUANCE		
PROJECT NO:	DRAWN BY:	REVIEWED BY:
190427.00	TJT	DCP
SHEET NAME:		
5TH FLOOR PLUMBING PLAN		
SHEET NO. P-202R		



PLUMBING KEY NOTES: #

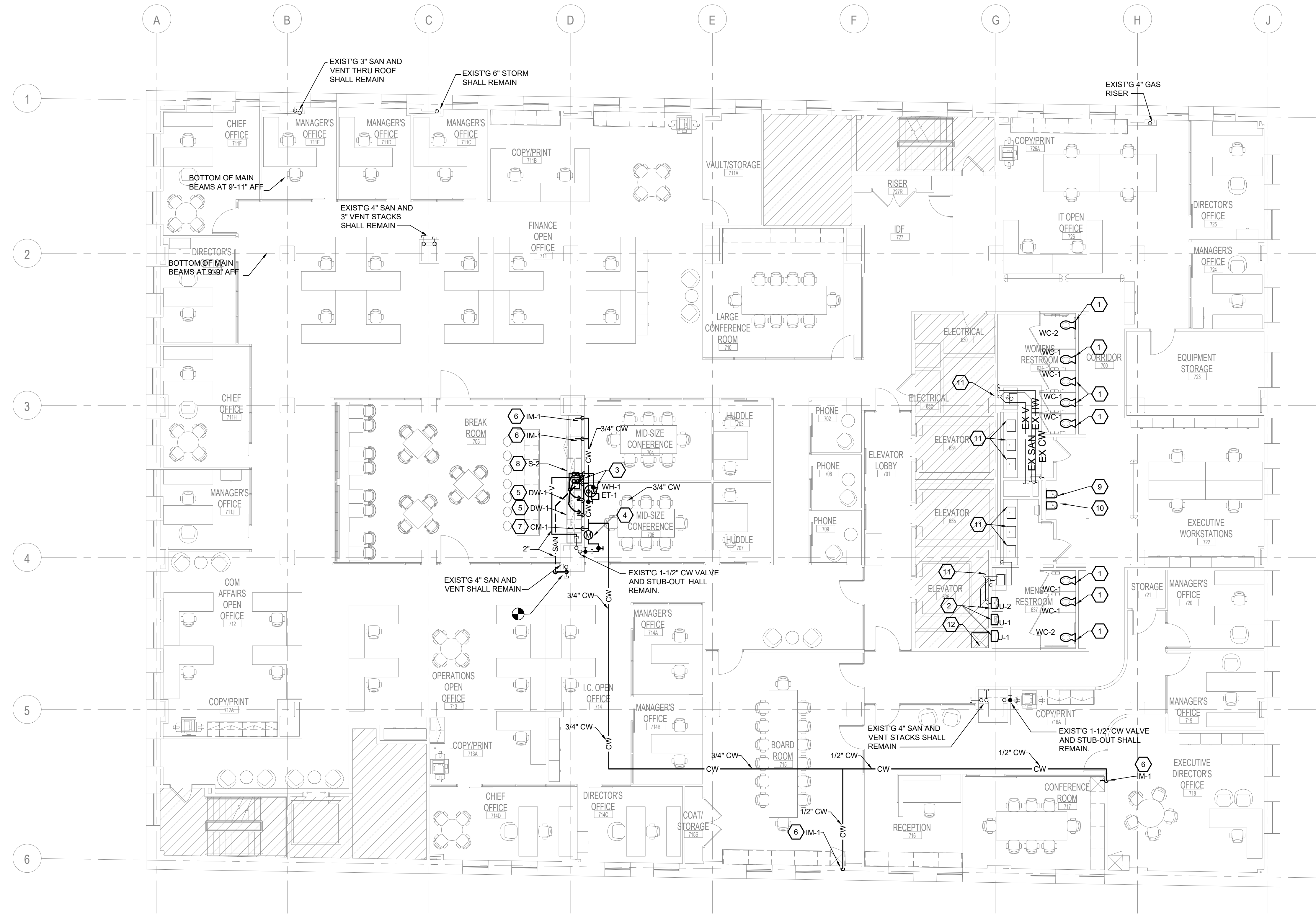
- DISCONNECT AND REMOVE EXISTING 1.6 GPF MANUAL FLUSH VALVE AND PREP FOR NEW LOW FLOW 1.28 GPF PISTON STYLE WATER CLOSET FLUSH VALVE. PROVIDE NEW PISTON STYLE BATTERY POWERED SENSOR OPERATED 1.28 GPF WATER CLOSET FLUSH VALVE AND CONNECT TO EXISTING WATER CLOSET AND SUPPLY PIPING - FIELD ADJUST AS NEEDED. ALSO PROVIDE NEW TOILET SEAT.
- DISCONNECT AND REMOVE EXISTING 1.0 GPF MANUAL URINAL FLUSH VALVE AND PREP FOR NEW LOW FLOW 0.5 GPF BATTERY OPERATED PISTON STYLE URINAL FLUSH VALVE. PROVIDE NEW PISTON STYLE 0.5 GPF BATTERY POWERED SENSOR OPERATED URINAL FLUSH VALVE AND CONNECT TO EXISTING URINAL AND SUPPLY PIPING - FIELD ADJUST AS NEEDED.
- PROVIDE NEW ELECTRIC WATER HEATER WITH SUPPORT PLATFORM. EXTEND 3/4" COLD AND HOT WATER TO HEATER CONNECTION PORTS. PROVIDE WITH EXPANSION TANK ON COLD WATER SUPPLY LINE. EXTEND HEATER DRAIN AND T&P VALVE DRAIN TO SAFE WASTE RECESSED IN WALL BOX. SEE DETAIL.
- PROVIDE 3/4" WATER METER WITH REMOTE READER TO COMPLY WITH LEED REQUIREMENTS OF TENANT WATER METERING. MOUNT METER ABOVE CEILING AND REMOTE READER IN LOCATION SELECTED BY ARCHITECT ON SITE. METER SHALL BE EQUAL TO A NEPTUNE AQUITY MODEL 3/4" X 5/8" WITH E-CODE READER.
- EXTEND DISHWASHER DRAIN HOSE TO UNDERSIDE OF COUNTER TOP AND ANCHOR PRIOR TO EXTENDING AND CONNECTING TO SINK TAIL PIECE WITH SIDE INLET CONNECTION.
- PROVIDE RECESSED WALL BOX WITH ICE MAKER CONNECTION SHUT OFF VALVE WITH INTEGRAL SHOCK ARRESTOR.
- PROVIDE CHROME PLATED COFFEE MAKER SHUT OFF VALVE WITH INTEGRAL SHOCK ARRESTOR IN BASE CABINET UNDER COFFEE MAKER. EXTEND BRAIDED STAINLESS STEEL FLEX HOSE FROM SHUT OFF VALVE TO COFFEE MAKER.
- PROVIDE DOUBLE BOWL STAINLESS STEEL UNDER COUNTER MOUNTED KITCHEN SINK WITH CHROME PLATED SINGLE LEVER FAUCET WITH PULL-OUT SPRAY HOSE TYPE SPOUT. INCLUDE TAIL PIECES WITH SIDE INLET FOR DISHWASHER CONNECTION AT EACH BOWL.
- PROVIDE NEW ELECTRIC WATER COOLER EWC-1 AT STANDARD MOUNTING HEIGHT COMPLETE WITH NEW TRAP AND SUPPLY VALVE. ADJUST EXISTING ROUGH-INS AS NEEDED FOR NEW FIXTURE. WATER COOLER SHALL BE EQUAL TO AN ELKAY MODEL #LZSG8 WITH LIGHT GREY GRANITE VINYL CLAD FINISH TO MATCH UNITS INSTALLED ON OTHER FLOORS OF THIS BUILDING.
- PROVIDE NEW ELECTRIC WATER COOLER EWC-2 MOUNTED AT ADA ACCESSIBILITY HEIGHT COMPLETE WITH BOTTLE FILL STATION, TRAP AND SUPPLY VALVE. ADJUST EXISTING ROUGH-INS AS NEEDED FOR NEW FIXTURE. WATER COOLER SHALL BE EQUAL TO AN ELKAY MODEL #LZSG8 WITH LIGHT GREY GRANITE VINYL CLAD FINISH TO MATCH UNITS INSTALLED ON OTHER FLOORS OF THIS BUILDING.
- EXISTING COUNTER TOP MOUNTED LAVATORY SINK AND FAUCET SHALL REMAIN AND CONTINUE IN USE.
- EXISTING JANITOR MOP SINK SHALL REMAIN AT THIS LOCATION AND CONTINUE IN USE.
- APPROXIMATE LOCATION OF NEW SANITARY AND VENT PIPING. FIELD COORDINATE WITH OTHER DISCIPLINES FOR BEST LOCATION OF THIS PIPING ON BOTH FLOORS AND MAKE ADJUSTMENTS AS NEEDED.

1 6TH FLOOR PLUMBING PLAN
P-203 1/8" = 1'-0"



#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
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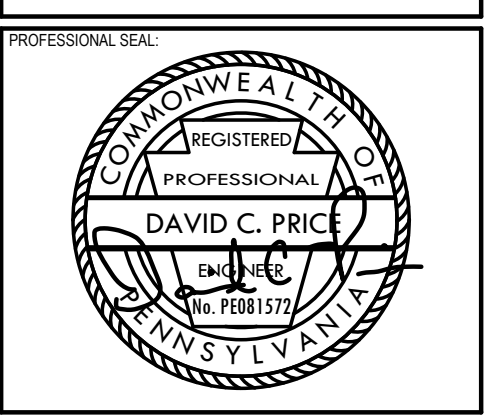
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PLUMBING KEY NOTES: #

1. DISCONNECT AND REMOVE EXISTING 1.6 GPF MANUAL FLUSH VALVE AND PREP FOR NEW LOW FLOW 1.28 GPF PISTON STYLE WATER CLOSET FLUSH VALVE. PROVIDE NEW PISTON STYLE BATTERY POWERED SENSOR OPERATED 1.28 GPF WATER CLOSET FLUSH VALVE AND CONNECT TO EXISTING WATER CLOSET AND SUPPLY PIPING - FIELD ADJUST AS NEEDED. ALSO PROVIDE NEW TOILET SEAT.
2. DISCONNECT AND REMOVE EXISTING 1.0 GPF MANUAL URINAL FLUSH VALVE AND PREP FOR NEW LOW FLOW 0.5 GPF BATTERY POWERED SENSOR OPERATED PISTON STYLE URINAL FLUSH VALVE. PROVIDE NEW PISTON STYLE 0.5 GPF BATTERY OPERATED URINAL FLUSH VALVE AND CONNECT TO EXISTING URINAL AND SUPPLY PIPING - FIELD ADJUST AS NEEDED.
3. PROVIDE NEW ELECTRIC WATER HEATER WITH SUPPORT PLATFORM. EXTEND 3/4" COLD AND HOT WATER TO HEATER CONNECTION PORTS. PROVIDE WITH EXPANSION TANK ON COLD WATER SUPPLY LINE. EXTEND HEATER DRAIN AND T&V VALVE DRAIN TO SAFE WASTE RECESSED IN WALL BOX. SEE DETAIL.
4. PROVIDE 3/4" WATER METER WITH REMOTE READER TO COMPLY WITH LEED REQUIREMENTS OF TENANT WATER METERING. MOUNT METER ABOVE CEILING AND REMOTE READER IN LOCATION SELECTED BY ARCHITECT ON SITE. METER SHALL BE EQUAL TO A NEPTUNE AQUITY MODEL 3/4" X 5/8" WITH E-CODE READER.
5. EXTEND DISHWASHER DRAIN HOSE TO UNDERSIDE OF COUNTER TOP AND ANCHOR PRIOR TO EXTENDING AND CONNECTING TO SINK TAIL PIECE WITH SIDE INLET CONNECTION.
6. PROVIDE RECESSED WALL BOX WITH ICE MAKER CONNECTION SHUT OFF VALVE WITH INTEGRAL SHOCK ARRESTOR.
7. PROVIDE CHROME PLATED COFFEE MAKER SHUT OFF VALVE WITH INTEGRAL SHOCK ARRESTOR IN BASE CABINET UNDER COFFEE MAKER. EXTEND BRAIDED STAINLESS STEEL FLEX HOSE FROM SHUT OFF VALVE TO COFFEE MAKER.
8. PROVIDE DOUBLE BOWL STAINLESS STEEL UNDER COUNTER MOUNTED KITCHEN SINK WITH CHROME PLATED SINGLE LEVER FAUCET WITH PULL-OUT SPRAY HOSE TYPE SPOUT. INCLUDE TAIL PIECES WITH SIDE INLET FOR DISHWASHER CONNECTION AT EACH BOWL.
9. PROVIDE NEW ELECTRIC WATER COOLER EWC-1 AT STANDARD MOUNTING HEIGHT COMPLETE WITH NEW TRAP AND SUPPLY VALVE. ADJUST EXISTING ROUGH-INS AS NEEDED FOR NEW FIXTURE. WATER COOLER SHALL BE EQUAL TO AN ELKAY MODEL #LZSG8 WITH LIGHT GREY GRANITE VINYL CLAD FINISH TO MATCH UNITS INSTALLED ON OTHER FLOORS OF THIS BUILDING.
10. PROVIDE NEW ELECTRIC WATER COOLER EWC-2 MOUNTED AT ADA ACCESSIBILITY HEIGHT COMPLETE WITH BOTTLE FILL STATION, TRAP AND SUPPLY VALVE. ADJUST EXISTING ROUGH-INS AS NEEDED FOR NEW FIXTURE. WATER COOLER SHALL BE EQUAL TO AN ELKAY MODEL #LZSG8 WITH LIGHT GREY GRANITE VINYL CLAD FINISH TO MATCH UNITS INSTALLED ON OTHER FLOORS OF THIS BUILDING.
11. EXISTING COUNTER TOP MOUNTED LAVATORY SINK AND FAUCET SHALL REMAIN AND CONTINUE IN USE.
12. EXISTING JANITOR MOP SINK SHALL REMAIN AT THIS LOCATION AND CONTINUE IN USE.

1 7TH FLOOR PLUMBING PLAN
P-204 1/8" = 1'-0"



HACP - Housing Authority of the City of Pittsburgh
412 Boulevard of the Allies, Pittsburgh, PA 15219

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	DESCRIPTION	DATE

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	TJT	DCP

7TH FLOOR PLUMBING PLAN
SHEET NO. P-204R
TRUE NORTH
PLAN NORTH

13. PROVIDE COMBINATION FIRE/SMOKE DAMPERS AT ALL FIRE/SMOKE RATED SHAFT AND WALL LOCATIONS. EACH COMBINATION FIRE SMOKE DAMPER SHALL HAVE FABRICATED AIRFOIL BLADES MEETING REQUIREMENTS OF UL STANDARD 555 & 555S AND HAVE AN 1-1/2 HOUR RATING. BASIS OF DESIGN SHALL BE GREENHECK MODEL FSD 200 SERIES. DAMPERS SHALL BE EQUIPPED STANDARD WITH AN ELECTRIC HEAT-RESPONSIVE DEVICE THAT PERFORMS THE SAME FUNCTION AS A FUSIBLE LINK TO CLOSE DAMPER AT 350 °F. PROVIDE POSITION INDICATING SWITCHES TO MEET REQUIREMENTS OF SMOKE PURGE CONTROL AND/OR BUILDING MANAGEMENT SYSTEM CONTROLS. THE DAMPER OPERATION AND CONSTRUCTION SHALL MEET UL REQUIREMENTS.
14. PROVIDE CURBS FOR ALL ROOF OPENINGS FOR DUCTS, FLUES, PIPING AND EQUIPMENT. CURBS SHALL BE FURNISHED AS ACCESSORIES TO THE EQUIPMENT OR 8" HIGH PATE OR EQUAL EQUIPMENT SUPPORTS SPANNING STRUCTURE AND FLASHED INTO ROOFING. ALL CUTTING, FLASHING, AND PATCHING OF ROOF SHALL BE BY OWNER'S ROOFING CONTRACTOR AND PAID FOR BY MECHANICAL CONTRACTOR.
15. PROVIDE 6' HIGH H FRAME SETS SUPPORT SYSTEM OR SIMILAR FOR ALL ROOFTOP DUCTWORK. SPACING SHALL BE PER SMOA/NA GUIDELINES.

HYDRONIC PIPING (232113)

1. PIPE AND FITTINGS -- HYDRONIC PIPING 2" AND SMALLER SHALL BE TYPE "L" HARD COPPER TUBING ASTM B 88-832 WITH SWEATED JOINTS ASTM B 16.22 USING 95.5 OR ANTIMONY SOLDER OR "PRESS-FIT" MECHANICAL JOINTING. FITTINGS SHALL BE CAST BRASS OR WROUGHT COPPER. PROVIDE SCREWED UNIONS AT FINAL CONNECTIONS TO EQUIPMENT TO ALLOW DISCONNECTION FOR REPAIR OR SERVICING.
2. PIPING 2 -1/2" AND LARGER SHALL BE SCHEDULE 40, WELDED BLACK STEEL (ASTM A53) WITH BLACK WROUGHT STEEL, BUTT WELDING TYPE (ASTM B16.9) FITTINGS, OR SCHEDULE 40, GROOVED BLACK STEEL (ASTM A53) WITH GROOVED FITTINGS SIMILAR TO VICTAULIC OR APPROVED EQUAL MAY BE USED.
3. BALL VALVES -- UP TO 2". BRONZE TWO PIECE BODY, STAINLESS STEEL BALL, TEFLON SEATS AND BLOW-OUT PROOF STUFFING BOX RING, LEVER HANDLE, AND BALANCING STOPS, UNION SOLDER ENDS. ACCEPTABLE MANUFACTURERS: CONBRACO (APOLLO), WATTS, INC., CRANE, INC. OR STOCKHAM, INC.
4. BUTTERFLY VALVES -- BUTTERFLY VALVES SHALL BE DEZURK 680 OR EQUAL WITH SEMI-STEEL LUG STYLE BODY, BRONZE DISC, 416 STAINLESS STEEL SHAFT, BRONZE BEARINGS, "NORDEL" RUBBER SEAT, LEVER HANDLE OPERATORS AND SHALL BE RATED AT 175 POUNDS CWP. VALVES SHALL PROVIDE DEAD TIGHT SHUTOFF CAPABILITY IN EITHER DIRECTION UP TO 150 PSI WHEN THE DOWNSTREAM FLANGES ARE REMOVED.
5. VENT AND DRAIN VALVES -- ALL WATER PIPING SYSTEMS SHALL BE INSTALLED IN SUCH A MANNER THAT THEY CAN BE COMPLETELY VENTED AND DRAINED. UNLESS OTHERWISE NOTED, PROVIDE AT ALL HIGH POINTS WHERE AIR CAN COLLECT 1/4" BRASS COMPRESSION VENT COCKS, AND AT ALL LOW POINTS 1/2" BALL VALVES WITH HOSE BIB ENDS AND CAPS.
6. PRESSURE/TEMPERATURE PLUGS -- PROVIDE SISCO OR PETERSON 1/4 INCH NPT FITTING OF SOLID BRASS, FOR 1/8" O.D. PROBE. VALVE CORE SHALL BE NEOPRENE FOR TEMPERATURE TO 200 F, AND RATED FOR ZERO LEAKAGE FROM VACUUM TO 1,000 PSIG. PROVIDE TEST KIT CONSISTING OF TWO PRESSURE GAGES WITH PROBES AND 2 DIAL THERMOMETERS WITH CARRYING CASE.
7. STRAINERS -- Y-PATTERN, BODY: ASTM A 126, CLASS B CAST IRON, WITH BOLTED OR SCREWED COVER AND BOTTOM DRAIN CONNECTION. END CONNECTIONS: THREADED ENDS FOR STRAINERS NPS 2 AND SMALLER; FLANGED ENDS FOR STRAINERS NPS 2-1/2 AND LARGER. STRAINER SCREEN: STAINLESS-STEEL, 20-MESH STRAINER, OR PERFORATED STAINLESS-STEEL BASKET. WITH TAPPED BLOWOFF PLUG. RATING: 150-PSIG WORKING PRESSURE.
8. BALANCING VALVES -- PROVIDE BELL & GOSSETT "CIRCUIT SETTER PLUS" BALANCING VALVES WHERE SHOWN IN PIPING DETAILS ON THE DRAWINGS. VALVES SHALL BE OF BRONZE BODY/BRASS BALL CONSTRUCTION (1/2" TO 3" SIZES) WITH GLASS AND CARBON FILLED TFE SEAT RINGS. VALVES SHALL HAVE DIFFERENTIAL PRESSURE READOUT PORTS, MEMORY STOP, CALIBRATED NAMEPLATE AND DRAIN PORT. EACH VALVE SHALL HAVE POSITIVE SHUTOFF AND SHALL BE CONSTRUCTED FOR 125 PSIG WORKING PRESSURE AT 250 DEGREES. PROVIDE TWO "CIRCUIT SETTER" CALCULATORS FOR THE OWNER'S USE.
9. AUTOMATIC BALANCING VALVES -- PROVIDE HAYS FLUID CONTROLS "MEASURFLO" AUTOMATIC BALANCING VALVES, OR APPROVED EQUAL, WHERE SHOWN IN PIPING DETAILS ON DRAWINGS. VALVES SHALL HAVE BRASS BODIES AND CHANGEABLE FLOW CARTRIDGES.
10. PROVIDE VALVES AND UNIONS WHERE NEEDED TO PERMIT DISCONNECTIONS OF EACH PIECE OF EQUIPMENT FOR REPAIRS. MAKE CONNECTIONS TO EQUIPMENT WITH SHUT-OFF VALVES ON SUPPLY AND BALANCE VALVES ON RETURNS. INSTALL UNIONS IN PIPES 2" AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTIONS EACH PIECE OF EQUIPMENT, AND ELSEWHERE AS INDICATED. UNIONS ARE NOT REQUIRED ON FLANGED DEVICES.
11. CONNECTIONS BETWEEN DISSIMILAR PIPING MATERIALS SHALL BE MADE WITH SUITABLE DIELECTRIC INSULATING UNIONS. ISOLATE COPPER PIPING FROM DISSIMILAR METALS, SUCH AS METAL STUDS AND VENT PIPING.
12. PROVIDE CONDENSATE DRAIN FOOR ALL COOLING COILS. ALL CONDENSATE DRAINS SHALL BE TRAPPED PER THE COOLING COIL TRAP DETAIL OR MANUFACTURERS RECOMMENDATIONS, WHICH EVER IS MORE STRINGENT/DEEPER. PROVIDE CLEANOUT.
13. CONDENSATE DRAIN PIPING IN RETURN AIR RATED PLENUMS SHALL BE TYPE L COPPER WITH 1/2" FIBERGLASS INSULATION (MIN. R-VALUE = 3). SCHEDULE 40 PVC WITHOUT INSULATION MAY BE USED IN ALL OTHER LOCATIONS.
14. WHERE DAMAGE TO ANY BUILDING COMPONENT COULD OCCUR AS A RESULT OF OVERFLOW OR STOPPAGE OF THE PRIMARY CONDENSATE DRAIN SYSTEM, PROVIDE UL 508 WATER-LEVEL DETECTION DEVICE IN THE PRIMARY DRAIN PAN, OVERFLOW OUTLET OR IN A SECONDARY DRAIN PAN PER IMC REQUIREMENTS. COOLING SYSTEM SHALL DISABLE UPON DETECTION OF WATER AND GENERATE A BAS ALARM(IF APPLICABLE).

REFRIGERANT PIPING (232300)

1. INSTALL REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND DX COIL. PIPING SHALL BE REFRIGERANT GRADE TYPE "L" OR ACR COPPER WITH BRAZED JOINTS. PIPE PER MANUFACTURER'S PIPING DIAGRAMS AND RECOMMENDATIONS.
2. ISOLATE PIPING FROM STRUCTURE WITH ONE (1) INCH INSULATION BETWEEN ALL PIPING AND SUPPORT POINTS.
3. AFTER COMPLETION, PRESSURE TEST PIPING, PURGE AND EVACUATE SYSTEM TWICE AND CHARGE SYSTEM WITH REFRIGERANT AND OIL.
4. INSTALL PIPING IN AS SHORT AND DIRECT ARRANGEMENT AS POSSIBLE TO MINIMIZE PRESSURE DROP. PROVIDE OIL TRAP AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
5. INSTALL UNIONS TO ALLOW REMOVAL OF SOLENOID VALVES, PRESSURE REDUCING VALVES, EXPANSION VALVES, AND AT CONNECTIONS TO COMPRESSORS AND EVAPORATORS.
6. FILL THE PIPE AND FITTINGS DURING BRAZING, WITH NITROGEN TO PREVENT FORMATION OF SCALE.

DUCTWORK & PIPE INSULATION (230713, 230719)

1. INSULATE ALL ACCESSIBLE CONCEALED SUPPLY DUCTS WITH 1-1/2" THICK FOIL FACED REINFORCED KRAFT JACKET, FIBERGLASS DUCT WRAP FULLY SECURED TO DUCT. LAP AND TAPE SEAMS AND SECURE TIGHTLY TO THE DUCTS WITH WIRE OR STICK PINS. 2" THICK RIGID FIBERGLASS BOARD INSULATION SHALL BE USED FOR ALL INDOOR EXPOSED APPLICATIONS. INSULATION SHALL HAVE A MINIMUM R-VALUE OF 6.
2. ALL DUCTWORK INSTALLED OUTSIDE OF THE BUILDING ENVELOPE SHALL BE INSULATED WITH 2" THICK FIBERGLASS BOARD INSULATION HAVING A MINIMUM R-VALUE OF 8.
3. DO NOT INSULATE:
- 3.1. MAKE-UP AIR DUCTWORK OPERATING AT SURROUNDING AMBIENT CONDITIONS.
 - 3.2. RETURN AND EXHAUST AIR DUCTWORK LOCATED WITHIN THE BUILDING ENVELOPE. (DOES NOT INCLUDE BUILDING SHAFTS.)
 - 3.3. TRANSFER AIR DUCTWORK (ACOUSTICALLY LINE DUCT, CLEAR INSIDE DIMENSIONS SHOWN ON PLANS)
 - 3.4. EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE. (DOES NOT INCLUDE RETURN AIR PLENUM.)
4. INTERNAL DUCT INSULATION -- DUCTWORK INDICATED TO HAVE INTERNAL NON-FIBEROUS INSULATION SHALL BE INTERNALLY COVERED WITH 1" THICK FLEXIBLE HYPOALLERGENIC POLYESTER FIBER INSULATION WITH FSK FACING. FOR DUCTWORK LOCATED OUTDOORS USE 3" THICK INTERNAL POLYESTER INSULATION. INSULATION SHALL HAVE AN "R" RATING OF 5 FOR 1" THICK INSULATION, R-8 FOR 2" THICK INSULATION, AND R-12 FOR 3" THICK INSULATION. INSULATION SHALL HAVE FLAME/SMOKE RATING OF 2.5/21. ONE INCH THICK INSULATION TO HAVE NRC COEFFICIENT OF 0.65. INSULATION SHALL WITHSTAND DUCT VELOCITIES OF 4000 FPM. DUCT SIZES SHOWN IS CLEAR INSIDE. WHERE LINER IS USED INCREASE OUTSIDE DIMENSIONS OF SHEET METAL TO MAINTAIN INSIDE DUCT AREA. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
5. HYDRONIC PIPING TO BE INSULATED SHALL BE COVERED WITH 1-1/2" THICKNESS 4 POUND DENSITY (MAXIMUM CONDUCTIVITY = 0.27 BTU/(HR FT-FT)) SECTIONAL GLASS FIBER PIPE INSULATION HAVING FACTORY APPLIED WHITE "ALL SERVICE" JACKET. PIPING LOCATED OUTDOORS SHALL BE INSULATED WITH 2" THICK INSULATION. LONGITUDINAL FLAPS SHALL BE SELF-SEALING TYPE ADDITIONALLY SECURED WITH NONFERROUS FLARE DOOR STAPLES SPACED 6" ON CENTERS. END JOINTS SHALL BE CLOSED WITH 4" WIDE SELF-SEALING TAPE STAPLED IN PLACE. ALL FITTINGS TO BE FINISHED WITH PRE-MOLDED ONE-PIECE ZESTON TYPE PVC COVERS WITH FIBERGLASS INSULATION INSIDE. SEAL ALL VISIBLE RAW FIBERGLASS WITH BENJAMIN FOSTER #3036 WHITE MASTIC.

6. INSULATE REFRIGERANT PIPING LINES WITH 1-1/2" THICK CLOSED CELL ELASTOMERIC FOAM INSULATION WITH SELF-SEALING SEAM. ARMACELL - AP ARMAFLEX SS INSULATION. PAINT CLOSED CELL INSULATION OUTDOORS WITH TWO COATS OF UV RESISTANT PAINT PER MANUFACTURER'S RECOMMENDATIONS. USE PRE-MOLDED COVERS OVER FITTINGS, VALVES, ELBOWS AND CONTROL DEVICES SEALED VAPOR TIGHT.
7. INSULATION SHALL BE OMITTED FROM HOT SYSTEM VALVE BODIES STRAINERS AND UNIONS. SYSTEMS OPERATING BELOW AMBIENT TEMPERATURE SHALL HAVE ALL VALVE BODIES AND PIPING SPECIALTIES FULLY INSULATED. ALL GLYCOL AND CITY WATER PIPING SHALL BE COVERED SAME AS HOT WATER PIPING. ALL VALVE BODIES, STRAINERS, UNIONS, PUMP CASING, WATER SEPARATORS, ETC. IN COLD PIPING SHALL BE COVERED SAME AS PIPING SYSTEM. PIPE HANGERS ON INSULATED PIPE SHALL BE OUTSIDE OF THE INSULATION, SIZED ACCORDINGLY AND WITH SADDLE INSERT SUFFICIENT TO PROTECT INSULATION FROM CRUSHING.
8. ALL INSULATION TO BE APPLIED IN FULL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL INSULATION SHALL COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND UL 723.
9. PROVIDE REMOVABLE INSULATION SECTIONS TO COVER PARTS OF EQUIPMENT WHICH MUST BE OPENED PERIODICALLY FOR MAINTENANCE, INCLUDE METAL VESSEL COVERS, FASTENERS, FLANGES, CHILLED WATER PUMPS, FRAMES AND ACCESSORIES.
10. REPLACE DAMAGED INSULATION WHICH CANNOT BE REPAIRED SATISFACTORILY, INCLUDING UNITS WITH VAPOR BARRIER DAMAGE AND MOISTURE SATURATED UNITS.

EQUIPMENT (235000)

1. MAKE ALL FINAL EQUIPMENT CONNECTIONS AND PROVIDE THE NECESSARY ADAPTORS, FITTINGS, VALVES, DEVICES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE COMPLETE WITH BASES, ISOLATORS, SUPPORTS AND OTHER REQUIRED ACCESSORIES.
2. EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS, INCLUDING CLEARANCES; LUBRICATE AND ADJUST AS REQUIRED. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO CHECK AND CONFORM TO THESE REQUIREMENTS PRIOR TO STARTING WORK. FURNISH AND INSTALL CLEAN SET OF FILTERS PRIOR TO BALANCING.
3. THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF EQUIPMENT. COORDINATE REQUIREMENT FOR PROVISION OF MOTOR STARTERS, DISCONNECTS, CONTACTORS, CONTROL WIRING, ETC. AS REQUIRED FOR PROPER FUNCTIONING SYSTEM WITH ELECTRICAL CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.
4. ALL FLOOR MOUNTED EQUIPMENT SHALL BE INSTALLED ON CONCRETE HOUSEKEEPING PADS. MINIMUM PAD THICKNESS SHALL BE NOMINAL 4". PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 4" ON EACH SIDE. CONCRETE PADS SHALL BE PROVIDED BY THIS CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE THIS CONTRACTOR TO COORDINATE THE SIZE AND LOCATION OF THE CONCRETE HOUSEKEEPING PADS WITH THE GENERAL CONTRACTOR.
5. ALL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE.
6. ISOLATION EQUIPMENT SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, AND SHALL BE DESIGNED SPECIFICALLY FOR THE APPLICATION REQUIRED. THIS INCLUDES, BUT IS NOT LIMITED TO, PIPING DUCTWORK, PUMPS, COMPRESSORS. VIBRATION ISOLATORS SHALL BE RATED FOR THE WEIGHT AND SPACING REQUIRED FOR THE EQUIPMENT REQUIRED ISOLATION.
7. PROVIDE CURBS FOR ALL ROOF OPENINGS FOR DUCTS, FLUES, PIPING AND EQUIPMENT. CURBS SHALL BE FURNISHED AS ACCESSORIES TO THE EQUIPMENT OR 8" HIGH PATE OR EQUAL EQUIPMENT SUPPORTS SPANNING STRUCTURE AND FLASHED INTO ROOFING. ALL CUTTING, FLASHING, AND PATCHING OF ROOF SHALL BE BY OWNER'S ROOFING CONTRACTOR AND PAID FOR BY MECHANICAL CONTRACTOR.

CONTROLS (230910)

1. EXISTING CONTROL SYSTEM HAS BEEN INSTALLED (CARRIER I-VUE) AND CONSISTS OF THE FOLLOWING ESSENTIAL DEVICES;
- 1.1. FLOOR BY FLOOR COMMUNICATION LOOPS, INCLUDING BACNET ROUTERS, TERMINAL DEVICE CONTROLLERS, NETWORK CONTROL WIRING.
 - 1.2. ROOF LEVEL COMMUNICATION LOOP, INCLUDING BACNET ROUTER, UNIT CONTROLLERS (FOR PACKAGED RTUs) NETWORK CONTROL WIRING.
 - 1.3. CENTRAL HYDRONIC SYSTEM CONTROL, INCLUDING HEATING CONTROLLERS, SENSORS, BOILER AND PUMP CONTROLS, AND NETWORK WIRING.
 - 1.4. BUILDING STATIC PRESSURE CONTROL.
2. EXISTING BASE BUILDING SYSTEM SEQUENCE OF OPERATIONS (FOR REFERENCE)
- 2.1. HYDRONIC HEATING SYSTEM (EXISTING BOILERS & PUMPING)
 - 2.1.1. THE BOILERS ARE SET UP TO RUN AS LEAD/LAG WITH BOILER B-1 BEING THE LEAD BOILER. ROTATION TO THE LAG BOILER WILL ONLY OCCUR IF THE LEAD BOILER IS BEING SERVICED OR IF THERE IS A CRITICAL FAILURE TO B-1 RESULTING IN A LOSS OF HEAT PRODUCTION. THE BAS WILL ENABLE THE LEAD BOILER ONCE THE OUTSIDE AIR TEMPERATURE FALLS BELOW 60°F AND STATUS IS PROVEN FROM EITHER HOT WATER HEATING PUMP. ONCE ENABLED THE ONBOARD CONTROLS OF THE BOILER WILL ENABLE ITS ASSOCIATED PUMP. CONTROL OF THE PUMP IS FROM THE THE BOILER ON BOARD CONTROLLER. THE BAS MONITORS THE STATUS, SPEED, AND ALARM CONTACTS OF THE PUMP. ONCE ALL SAFETY CRITERIA ARE SATISFIED, THE BOILER WILL FIRE. THE ONBOARD CONTROLLER AND ALERT VIA EMAIL SHOULD A CONDITION ARISE THAT RESULTS IN A LOSS OF HEAT PRODUCTION. IN THE EVENT THAT THE LAG BOILERS NEEDS TO BECOME THE LEAD BOILER, BOILER B-1 WILL ENABLE THE SECOND BOILER AS THE LEAD UNTIL THE RESULT FAILURE CONDITIONS IS RESOLVED. ONCE ENABLED THE ONBOARD CONTROLS OF THE BOILER WILL ENALBED ITS ASSOCIATED BOILER PUMP. AFTER ALL SAFETY CRITERIA ARE SATISFIED, THE BOILER WILL FIRE. ONCE THE SECOND BOILER IS ESTABLISHED AS THE LEAD BOILER, THE HOT WATER RESET WILL BE DISABLED AND THE SECOND BOILER WILL MAINTAIN A HOT WATER TEMPERATURE OF 160°F. A THERMOSTATIC 3-WAY VALVE WILL MAINTAIN 140°F WATER SET POINT AT THE BOILER INLET.
 - 2.1.2. THE PUMPS OPERATE IN A LEAD/LAG CONFIGURATION WITH ONE PUMP CONTINUOUSLY ENABLED. THE BAS ENABLES A PUMP ONCE THE OUTSIDE AIR TEMPERATURE FALLS BELOW 60°F. ONCE ENABLED, THE LEAD PUMP REMAINS IN THE LEAD POSITION UNTIL 780 HOURS OF ACCUMULATED RUN TIME OR FAILURE RESULTING IN LOSS OF FLOW. THE BAS WILL MONITOR THE RUN TIME AND ALARM CONTACT OF EACH PUMP AND WILL ROTATE THE PUMPS FROM LEAD TO LAG. SPEED CONTROL OF THE PUMPS IS BY THE BAS. THE BAS MONITORS THE DIFFERENTIAL PRESSURE ACROSS THE SUPPLY AND RETURN PIPING FROM THE HOT WATER LOOP AND MODULATES THE SPEED OF THE PUMPS TO MAINTAIN A DIFFERENTIAL PRESSURE SET POINT.
 - 2.2. EXISTING PACKAGED VARIABLE AIR VOLUME (VAV) ROOFTOP UNITS
 - 2.2.1. TWO (2) UNITS SERVE THE LOWER LEVEL THRU 4TH FLOOR WHILE THE OTHER TWO (2) UNITS SERVE FLOORS 5 THRU 9. ALL ARE VAV CONTROL TYPE DISCHARGING A CONSTANT AIR TEMPERATURE OF 55°F AS SENSED AT THE FIELD INSTALLED DISCHARGE AIR SENSOR. FACTORY LOGIC WILL ALLOW FOR A DISCHARGE AIR RESET BASED ON OUTSIDE AIR TEMPERATURE. THE BAS ENABLES THE UNIT MATCHING THE OCCUPANCY OF THE BUILDING. ONCE ENABLED, THE SUPPLY FANS AND RETURN FANS WILL RUN CONTINUOUSLY. CONTROL OF THE SUPPLY FAN SPEED IS BASED ON STATIC PRESSURE CONTROL. STATIC PRESSURE IS SAMPLED IN THE SUPPLY DUCT AT EACH FLOOR. THE STATIC PRESSURE SETPOINT HAS BEEN ESTABLISHED BY THE BASE BUILDING TAB CONTRACTOR DURING BALANCING. CONTROL OF THE RETURN FANS IS ALSO BASED ON BUILDING PRESSURE. BUILDING PRESSURE IS SENSED ON THE 1ST FLOOR FOR THE UNITS WHICH SERVE THAT AREA AND ON THE 9TH FLOOR FOR UNITS THAT SERVE THOSE AREAS. THE UNIT FOLLOWS ITS FACTORY CONTROL SEQUENCE AT THIS POINT. ALL UNITS ARE CAPABLE OF GAS HEATING, DX COOLING, FREE COOLING W/ ENTHALPY CONTROLS, AND SUPPLY AIR RESET BASED ON OUTSIDE AIR TEMPERATURE. DUCT SMOKE DETECTOR (INSTALLED IN THE SUPPLY AND RETURN DUCTWORK) MONITOR FOR SMOKE IN THE DUCT. SHOULD A SMOKE EVENT OCCUR ALL FUNCTIONS OF THE UNITS WILL BE DISABLED EITHER DIRECTORY OR INDIRECTLY BY COMMAND FROM THE FIRE ALARM PANEL.
3. PROVIDE COMPLETE TEMPERATURE CONTROLS FOR ALL HVAC SYSTEMS. PROVIDE NEW CONTROL DEVICES INCLUDING DAMPER OPERATORS, TEMPERATURE SENSORS, STAGING RELAYS AND OTHER REQUIRED DEVICES TO PROVIDE A COMPLETE OPERATIONAL SYSTEM PER THE FOLLOWING OPERATING SEQUENCE. MOUNT ALL CONTROLS FURNISHED AS ACCESSORIES TO EQUIPMENT AND PROVIDE ALL CONTROL WIRING REQUIRED FOR PROPER OPERATION WHERE NOT SPECIFICALLY SHOWN ON ELECTRICAL PLANS. ALL WIRING SHALL BE IN CONDUIT OR PER N.E.C. AND LOCAL CODE REQUIREMENTS. STANDARD MOUNTING HEIGHT TO TOP OF THERMOSTAT IS 48" ABOVE FINISHED FLOOR OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. DO NOT INSTALL THERMOSTATS NEAR DIMMER SWITCHES. WIRING OF ALL MOTORIZED OPERATORS AND THERMOSTATS (REGARDLESS OF VOLTAGE) ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE, WEB-BASED, NATIVE BACNET-INTEGRATED BUILDING AUTOMATION SYSTEM (BAS) INCLUDING ALL NECESSARY HARDWARE, ALL OPERATING AND APPLICATIONS SOFTWARE NECESSARY TO PERFORM THE HVAC CONTROL SEQUENCES OF OPERATION AS CALLED FOR IN THIS SPECIFICATION OR AS SHOWN ON THE DRAWINGS. BAS CONTRACTOR SHALL FURNISH AND INSTALL ALL RELATED SOFTWARE AND HVAC-DDC CONTROLS AS SPECIFIED WITHIN THIS SPECIFICATION. IT SHALL BE THE RESPONSIBILITY OF THE BAS CONTRACTOR TO COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, AND THE ELECTRICAL CONTRACTOR AS IT RELATES TO THE INSTALLATION AND WIRING OF ALL RELATED HVAC SYSTEMS.
5. IT SHALL BE THE RESPONSIBILITY OF THE BAS CONTRACTOR TO PROVIDE ALL THE REQUIRED LABOR AND PROGRAMMING TO SEAMLESSLY INTEGRATE THE NEW BAS BACNET SYSTEM AND ITS DDC POINTS, GRAPHICS, ALARMS, ETC. INTO AN EXISTING BAS IF PRESENT.
6. THE CONTROLS CONTRACTOR SHALL WARRANT THE SYSTEM FOR 24 MONTHS AFTER SUBSTANTIAL COMPLETION. DURING THE WARRANTY PERIOD, THE BUILDING SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY REVISIONS TO THE SOFTWARE AS REQUIRED TO PROVIDE A COMPLETE AND WORKABLE SYSTEM CONSISTENT WITH THE LETTER AND INTENT OF THE SEQUENCE OF OPERATION SECTION OF THE SPECIFICATION.

HANGERS AND SUPPORTS (230529)

1. SUPPORT ALL PIPING FROM STRUCTURE WITH UL LISTED HANGERS AND SUPPORTS SUITABLE FOR THE INTENDED INSTALLATION. DESIGN, SELECTION, SPACING AND APPLICATION OF HANGERS AND SUPPORTS SHALL COMPLY WITH ANSI B31.1 AND IMC SP-59. HANGERS SHALL BE MANUFACTURED BY PENTAIR, OR APPROVED EQUAL. BLACK OR GALVANIZED STEEL PIPE = MODEL NO. 100, CAST IRON PIPE = MODEL NO. 400, COPPER TUBING = MODEL NO. 102-A.
2. CONTRACTOR SHALL PROVIDE INSULATION HANGER WITH PROTECTIVE SHIELDS, SUCH AS PENTAIR, MODEL NO. 125, OR APPROVED EQUAL FOR ALL INSULATED PIPING.
3. CONTRACTOR SHALL PROVIDE RISER CLAMPS FOR VERTICAL PIPING AT EACH LEVEL. RISER CLAPS SHALL BE PENTAIR MODEL NO. 510 FOR STEEL PIPING AND MODEL NO. 511 FOR COPPER TUBING OR APPROVED EQUAL. USE "SHORT-END" RISER CLAMPS WHERE SPACE IS LIMITED.
4. CONTRACTOR SHALL PROVIDE SIDE BEAM CLAMPS FOR SUPPORTING PIPING FROM STRUCTURAL STEEL MEMBERS. BEAM CLAMPS SHALL BE MANUFACTURED BY PENTAIR, MODEL 300 OR APPROVED EQUAL.
5. WHERE OTHER MEANS OF SUPPORT PIPING ARE REQUIRED OR DESIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE ENGINEER'S APPROVAL PRIOR TO INSTALLING THOSE SUPPORTS.
6. HANGERS AND SUPPORTS SHALL BE SPACED AT INTERVALS WHICH WILL PREVENT SAGGING AND REDUCE STRAIN ON VALVES AND SPECIALTIES. HANGER SPACING SHALL BE NO GREATER AND ROD SIZE SHALL BE NO SMALLER THAN THAT SHOWN IN THE FOLLOWING TABLE. HANGERS SHALL ALLOW FOR EXPANSION AND CONTRACTION. HANGER SHALL BE PROVIDED AT EACH CHANGE OF DIRECTION.
7. RISER CLAMPS SHALL BE INSTALLED ABOVE THE FLOOR AT EACH LEVEL. RISER CLAMPS MAY BE SUSPENDED BELOW FLOOR LEVEL, WITH HANGER RODS AND INSERTS, WHERE THE INSTALLATION OF ESCUTCHEON PLATES IS REQUIRED.

7. SYSTEM SHALL BE FULLY INTEGRATED AND COORDINATED WITH MECHANICAL EQUIPMENT DDC CONTROLLERS FURNISHED AND INSTALLED IN THE EQUIPMENT MANUFACTURER'S FACTORY. THE INTENT OF THE BUILDING AUTOMATION SYSTEM IS TO INTEGRATE ALL EXISTING MECHANICAL EQUIPMENT INTO ONE SYSTEM FOR GLOBAL MONITORING, CONTROL, AND ALARMING ASSOCIATED WITH THE BUILDING. IT IS THE BAS MANUFACTURER'S RESPONSIBILITY TO PROVIDE ALL THE DESIGN, ENGINEERING, AND FIELD COORDINATION REQUIRED TO ENSURE ALL EQUIPMENT SEQUENCE OF OPERATIONS ARE MET AS SPECIFIED AND THE DESIGNATED BAS OPERATORS HAVE THE CAPABILITY OF MANAGING THE BUILDING MECHANICAL SYSTEM TO ENSURE OCCUPANT COMFORT WHILE MAINTAINING ENERGY EFFICIENCY.

8. BUILDING AUTOMATION SYSTEM SHALL INTEGRATE WITH EXISTING CORE AND SHELL CONTROL SYSTEM. THE BAS MANUFACTURER SHALL HAVE FACTORY TRAINED AND CERTIFIED PERSONNEL PROVIDING ALL ENGINEERING, SERVICE, STARTUP, AND COMMISSIONING FIELD LABOR FOR THE PROJECT FROM THEIR LOCAL OFFICE LOCATION. BAS MANUFACTURER SHALL BE ABLE TO PROVIDE TRAINING CERTIFICATIONS FOR ALL LOCAL OFFICE PERSONNEL UPON REQUEST.

9. THE FOLLOWING ARE THE APPROVED BAS MANUFACTURERS:

- TRANE
- CARRIER I-VUE (BASE BUILDING INSTALL)
- JCI PITTSBURGH BRANCH OFFICE
- SIEMENS PITTSBURGH
- OR APPROVED EQUAL

2. CONTROL SEQUENCE SHALL BE AS FOLLOWS:

- 2.1. VARIABLE AIR VOLUME BOXES W/O REHEAT
- 2.1.1. A WALL MOUNTED TEMPERATURE SENSOR WILL BE USED BY THE VAV BOX CONTROLLER FOR ITS CONTROL LOGIC POINT.
 - 2.1.2. THE CONTROLLER WILL STORE BOTH OCCUPIED AND UNOCCUPIED SCHEDULES AND SET POINTS THROUGH LINKAGE CONTROL. THE CONTROLLER WILL MONITOR THE PRIMARY AIR TEMPERATURE TO THE VAV BOX AND MODULATE THE PRIMARY AIR DAMPER FROM ITS MINIMUM CFM SET POINT TO ITS MAXIMUM CFM SET POINT IN ORDER TO MAINTAIN THE SPACE WITHIN THE HEATING AND COOLING SETPOINTS.
 - 2.1.3. SINCE HEAT IS UNAVAILABLE THE CONTROLLER WILL COMPARE THE PRIMARY AIR TEMPERATURE TO THE SPACE TEMPERATURE AND DETERMINE IF THE THE AIR IS SUITABLE FOR MEETING SPACE DEMANDS.
 - 2.1.4. IF THE AIR IS NOT SUITABLE, THE PRIMARY AIR DAMPER CFM WILL BE MAINTAINED AT ITS OCCUPIED MINIMUM AIRFLOW SETPOINT.
 - 2.1.5. PROVIDE WIRELESS THERMOSTATS/CONTROLLERS.
- 2.2. VARIABLE AIR VOLUME BOXES W/ REHEAT
- 2.2.1. A WALL MOUNTED TEMPERATURE SENSOR WILL BE USED BY THE VAV BOX CONTROLLER FOR ITS CONTROL LOGIC POINT.
 - 2.2.2. THE CONTROLLER WILL STORE BOTH OCCUPIED AND UNOCCUPIED SCHEDULES AND SET POINTS THROUGH LINKAGE CONTROL. THE CONTROLLER WILL MONITOR THE PRIMARY AIR TEMPERATURE TO THE VAV BOX AND MODULATE THE PRIMARY AIR DAMPER FROM ITS MINIMUM CFM SETPOINT TO ITS MAXIMUM CFM SETPOINT TO SATISFY ITS DEMAND.
 - 2.2.3. IF HEAT IS REQUIRED AND THE PRIMARY AIR DAMPER IS NOT SUITABLE FOR HEATING, THE CONTROLLER WILL OPERATE ITS NORMALLY CLOSED MODULATING TWO WAY VALVE TO MEET SPACE DEMAND.
 - 2.2.4. THE CONTROLLER WILL MONITOR THE DISCHARGE AIR TEMPERATURE AFTER THE COIL AND WILL NOT ALLOW THE AIR TO EXCEED THE MAXIMUM HEATING SUPPLY AIR TEMPERATURE SETPOINT OF 95°F.
 - 2.2.5. DURING HEATING THE CONTROLLER WILL MAINTAIN THE CONFIGURED AUXILIARY HEATING CFM SET POINT.
 - 2.2.6. PROVIDE WIRELESS THERMOSTATS/CONTROLLERS.

2.3. VARIABLE AIR VOLUME BOXES W/ REHEAT & THERMAL DIFFUSERS

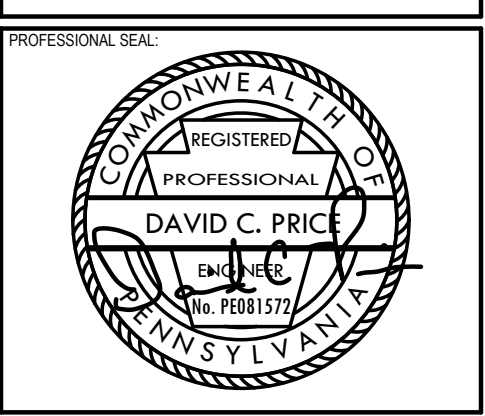
- 2.3.1. A WALL MOUNTED THERMOSTAT WILL BE USED BY EACH MASTER THERMAL DIFFUSER CONTROLLER FOR ITS CONTROL LOGIC POINT.
- 2.3.2. THE THERMAL DIFFUSER CONTROLLER WILL STORE BOTH OCCUPIED AND UNOCCUPIED SCHEDULES AND SET POINTS THROUGH LINKAGE CONTROL. THE CONTROLLER WILL MONITOR THE SPACE TEMPERATURE AS MEASURED BY THE WALL MOUNTED THERMOSTAT AND SHALL MODULATE THE DIFFUSER'S INTERNAL DAMPER OPEN AND CLOSED AS NECESSARY TO MEET THE SPACE TEMPERATURE SETPOINT.
- 2.3.3. THE VAV CONTROLLER SHALL MODULATE THE VAV BOX AIRFLOW DAMPER VIA A DUCT STATIC PRESSURE SENSOR LOCATED DOWNSTREAM OF THE VAV BOX. THE DAMPER SHALL MODULATE VIA THE CONTROLLER TO MAINTAIN A STATIC PRESSURE OF NO GREATER THAN .25" WC DOWNSTREAM OF THE VAV BOX.
- 2.3.4. IF HEAT IS REQUIRED AND THE PRIMARY AIR TEMPERATURE IS NOT SUITABLE FOR HEATING, THE VAV CONTROLLER SHALL COMMUNICATE WITH THE THERMAL DIFFUSER CONTROLLER AND WILL OPERATE ITS NORMALLY CLOSED MODULATING TWO WAY VALVE TO MEET SPACE DEMAND.
- 2.3.5. THE VAV CONTROLLER WILL MONITOR THE DISCHARGE AIR TEMPERATURE AFTER THE COIL AND WILL NOT ALLOW THE AIR TO EXCEED THE MAXIMUM HEATING SUPPLY AIR TEMPERATURE SETPOINT OF 95°F.
- 2.3.6. DURING HEATING THE VAV CONTROLLER WILL MAINTAIN THE CONFIGURED AUXILIARY HEATING CFM SET POINT.

2.4. FAN POWERED VAV BOXES WITH REHEAT

- 2.4.1. A WALL MOUNTED TEMPERATURE SENSOR WILL BE USED BY THE CARRIER CONTROLLER FOR ITS CONTROL LOGIC POINT.
- 2.4.2. THE CONTROLLER WILL STORE BOTH OCCUPIED AND UNOCCUPIED SCHEDULES AND SET POINTS THROUGH LINKAGE CONTROL. THE CONTROLLER WILL MONITOR THE PRIMARY AIR TEMPERATURE TO THE FPVAV BOX AND MODULATE THE PRIMARY AIR DAMPER FROM ITS MINIMUM CFM SET POINT TO ITS MAXIMUM CFM SET POINT IN ORDER TO MAINTAIN THE SPACE WITHIN THE HEATING AND COOLING SETPOINTS.
- 2.4.3. IF COOLING IS REQUIRED AND THE PRIMARY AIR IS SUITABLE FOR COOLING, THE CONTROLLER WILL MODULATE ITS DAMPER FROM ITS MINIMUM CFM SETPOINT TO ITS MAXIMUM CFM SETPOINT TO SATISFY THE DEMAND.
- 2.4.4. IF HEAT IS REQUIRED AND THE PRIMARY AIR IS NOT SUITABLE FOR HEATING, THE CONTROLLER WILL ENERGIZE THE FAN FOR A CONFIGURABLE LENGTH OF TIME IN ORDER TO UTILIZE THE PLENUM AIR TO SATISFY THE HEATING DEMAND.
- 2.4.5. IF THE DEMAND IS STILL PRESENT, THE CONTROLLER WILL MODULATE ITS NORMALLY CLOSED MODULATING TWO WAY VALVE TO MEET SPACE DEMAND.
- 2.4.6. THE CONTROLLER WILL MONITOR THE DISCHARGE AIR TEMPERATURE AFTER THE COIL AND WILL NOT ALLOW THE AIR TO EXCEED THE MAXIMUM SUPPLY AIR SETPOINT OF 95°F. DURING HEATING SEASON, THE CONTROLLER WILL MAINTAIN THE CONFIGURED AUXILIARY HEATING CFM SETPOINT.
- 2.4.7. PROVIDE WIRELESS THERMOSTATS/CONTROLLERS.

2.5. DUCTLESS SPLIT SYSTEM

- 2.5.1. A WALL MOUNTED SENSOR WILL BE USED AS THE CONTROL POINT FOR THE SYSTEM. THE UNIT WILL BE COOLING ONLY AND WILL MAINTAIN THE SPACE AT 70°F (ADJ.) AT THE WALL SENSOR.



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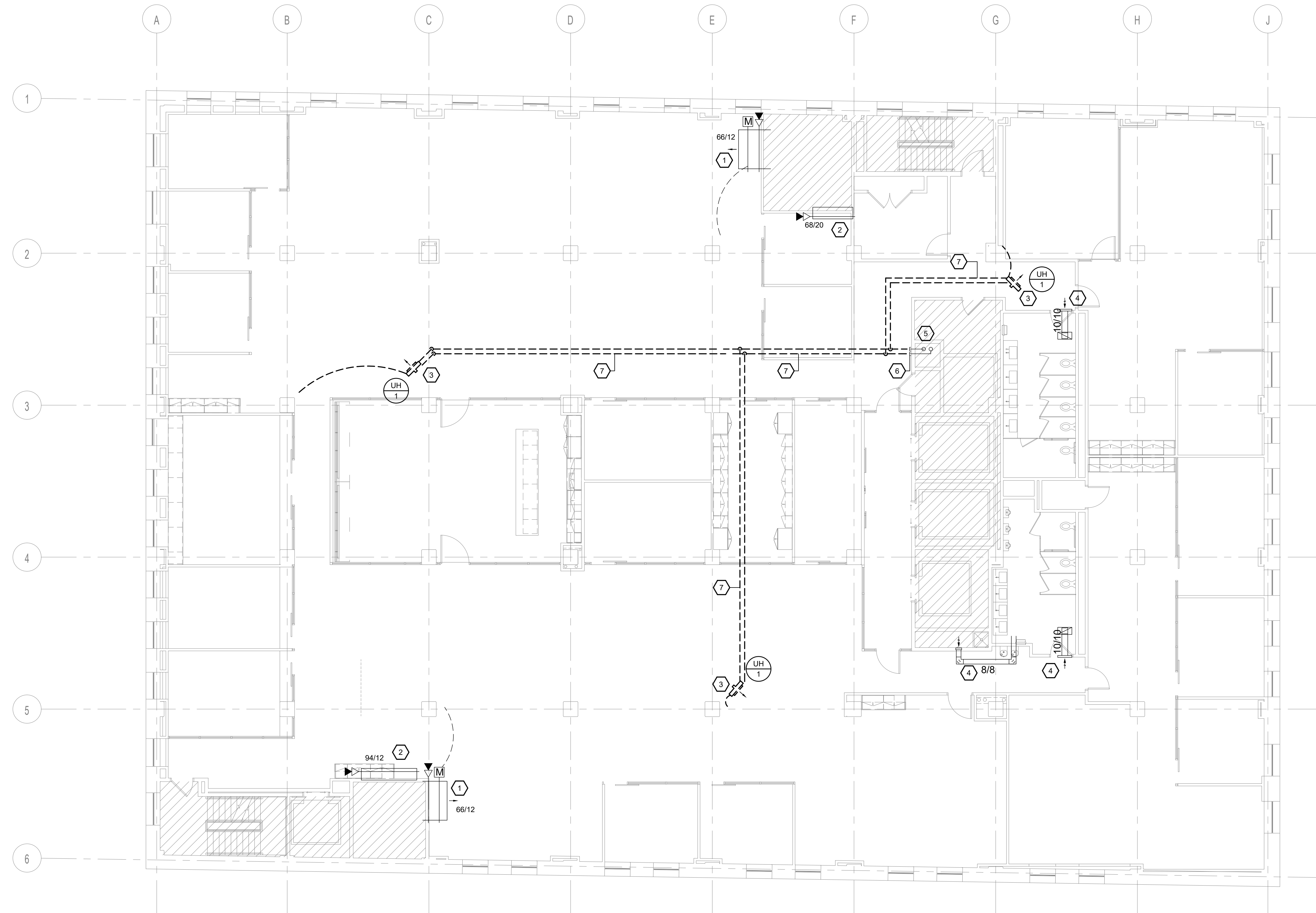
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5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/27/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

PROJECT NO. 190427.00	DESIGNED BY KAS & AGR	REVIEWED BY DCP
SHEET NAME		

MECHANICAL SPECIFICATIONS

SHEET NO. **M-003R**

TRUE NORTH
PLAN NORTH



MECHANICAL DEMOLITION GENERAL NOTES:

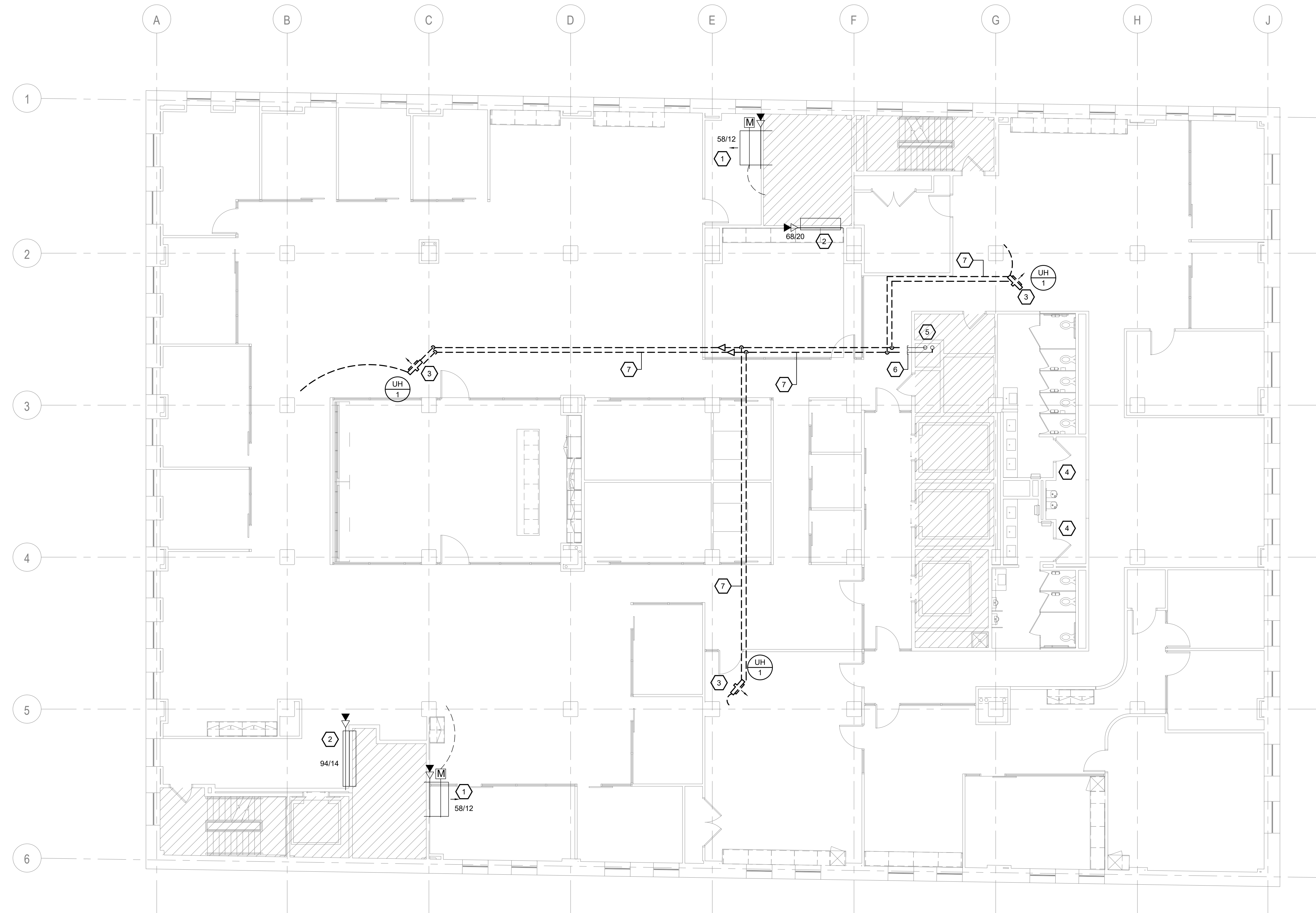
1. MC SHALL VERIFY ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, AND APPURTENANCE SIZES AND LOCATION IN FIELD PRIOR TO BID.
2. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
3. MC SHALL PROVIDE NEW ISOLATION VALVES AT ANY PIPING GAP AS A RESULT OF DEMOLITION OF PORTION OF HYDRONIC SYSTEM.
4. VERIFY EXISTING BACNET ROUTER INSTALLED IN PREVIOUS WORK TO REMAIN. HVAC CONTROLS ON THIS FLOOR SHALL BE ROUTED TO FIFTH FLOOR BACNET ROUTER UNLESS OTHERWISE NOTED.
5. ALL EXISTING HOT WATER SUPPLY AND RETURN PIPING ASSOCIATED WITH MECHANICAL HEATING SYSTEM, AS WELL AS ALL HANGERS, INSULATION AND OTHER APPURTENANCES, SHALL BE DEMOLISHED ON FLOOR. VERIFY SIZE, LOCATION AND QUANTITY IN FIELD.
6. ALL EXISTING FAN POWERED VAV BOXES AND SINGLE DUCT VAV BOXES, AS WELL AS ALL APPURTENANCES, PIPING AND DUCTWORK CONNECT TO UNITS, SHALL BE DEMOLISHED. VERIFY QUANTITY, SIZE, AND LOCATION IN FIELD.

MECHANICAL DEMOLITION KEY NOTES: #

1. EXISTING SUPPLY DUCTWORK INTO CHASE TO REMAIN. MC TO VERIFY SIZE AND EXACT LOCATION OF DUCTWORK IN FIELD. EXISTING MOTORIZED DAMPER AND COMBINATION FIRE/SMOKE DAMPER TO REMAIN.
2. EXISTING RETURN DUCTWORK INTO CHASE TO REMAIN. MC TO VERIFY SIZE AND EXACT LOCATION OF DUCTWORK IN FIELD. EXISTING COMBINATION FIRE/SMOKE DAMPER TO REMAIN. MC TO VERIFY PRESENCE OF BIRDSCREEN AT DUCT STUB. MC TO PROVIDE BIRDSCREEN IF NOT CURRENTLY INSTALLED.
3. EXISTING HOT WATER UNIT HEATER AND ALL ASSOCIATED APPURTENANCES TO BE DISCONNECTED AND RETURNED TO OWNER IN GOOD CONDITION. VERIFY LOCATION IN FIELD.
4. EXISTING DUCTWORK TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
5. EXISTING HOT WATER SUPPLY AND RETURN RISERS IN SHAFT TO REMAIN.
6. EXISTING HOT WATER SUPPLY AND RETURN PIPING FROM SHAFT INTO FUTURE TENANT SPACE TO BE CAPPED NO LESS THAN 3 FEET FROM SHAFT FOR FUTURE CONNECTION. MC TO PROVIDE MANUAL ISOLATION VALVES ON SUPPLY AND RETURN PIPING IF NOT CURRENTLY INSTALLED.
7. EXISTING HOT WATER SUPPLY AND RETURN PIPING AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED. MC TO VERIFY EXACT ROUTING AND LOCATION OF PIPING IN FIELD.

1 5TH FLOOR MECHANICAL PLAN - DEMOLITION
M-102 1/8" = 1'-0"

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020



MECHANICAL DEMOLITION GENERAL NOTES:

1. MC SHALL VERIFY ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, AND APPURTENANCE SIZES AND LOCATION IN FIELD PRIOR TO BID.
2. MC SHALL VERIFY ALL EQUIPMENT TO REMAIN IS FUNCTIONING PROPERLY AND IS IN GOOD WORKING CONDITION.
3. MC SHALL PROVIDE NEW ISOLATION VALVES AT ANY PIPING CAP AS A RESULT OF DEMOLITION OF PORTION OF HYDRONIC SYSTEM.
4. VERIFY EXISTING BACNET ROUTER INSTALLED IN PREVIOUS WORK TO REMAIN. HVAC CONTROLS ON THIS FLOOR SHALL BE ROUTED TO FIFTH FLOOR BACNET ROUTER UNLESS OTHERWISE NOTED.
5. ALL EXISTING HOT WATER SUPPLY AND RETURN PIPING ASSOCIATED WITH MECHANICAL HEATING SYSTEM, AS WELL AS ALL HANGERS, INSULATION AND OTHER APPURTENANCES, SHALL BE DEMOLISHED ON FLOOR. VERIFY SIZE, LOCATION AND QUANTITY IN FIELD.
6. ALL EXISTING FAN POWERED VAV BOXES AND SINGLE DUCT VAV BOXES, AS WELL AS ALL APPURTENANCES, PIPING AND DUCTWORK CONNECT TO UNITS, SHALL BE DEMOLISHED. VERIFY QUANTITY, SIZE, AND LOCATION IN FIELD.

MECHANICAL DEMOLITION KEY NOTES:

1. EXISTING SUPPLY DUCTWORK INTO CHASE TO REMAIN. MC TO VERIFY SIZE AND EXACT LOCATION OF DUCTWORK IN FIELD. EXISTING MOTORIZED DAMPER AND COMBINATION FIRE/SMOKE DAMPER TO REMAIN.
2. EXISTING RETURN DUCTWORK INTO CHASE TO REMAIN. MC TO VERIFY SIZE AND EXACT LOCATION OF DUCTWORK IN FIELD. EXISTING COMBINATION FIRE/SMOKE DAMPER TO REMAIN. MC TO VERIFY PRESENCE OF BIRDSCREEN AT DUCT STUB. MC TO PROVIDE BIRDSCREEN IF NOT CURRENTLY INSTALLED.
3. EXISTING HOT WATER UNIT HEATER AND ALL ASSOCIATED APPURTENANCES TO BE DISCONNECTED AND RETURNED TO OWNER IN GOOD CONDITION. VERIFY LOCATION IN FIELD.
4. EXISTING TRANSFER GRILLES AND DUCTWORK FOR BATHROOMS TO REMAIN. VERIFY SIZE AND LOCATION IN FIELD.
5. EXISTING HOT WATER SUPPLY AND RETURN RISERS IN SHAFT TO REMAIN.
6. EXISTING HOT WATER SUPPLY AND RETURN PIPING FROM SHAFT INTO FUTURE TENANT SPACE TO BE CAPPED NO LESS THAN 3 FEET FROM SHAFT FOR FUTURE CONNECTION. MC TO PROVIDE MANUAL ISOLATION VALVES ON SUPPLY AND RETURN PIPING IF NOT CURRENTLY INSTALLED.
7. EXISTING HOT WATER SUPPLY AND RETURN PIPING AND ALL ASSOCIATED APPURTENANCES TO BE DEMOLISHED. MC TO VERIFY EXACT ROUTING AND LOCATION OF PIPING IN FIELD.

1 7TH FLOOR MECHANICAL PLAN - DEMOLITION
M-104R 1/8" = 1'-0"

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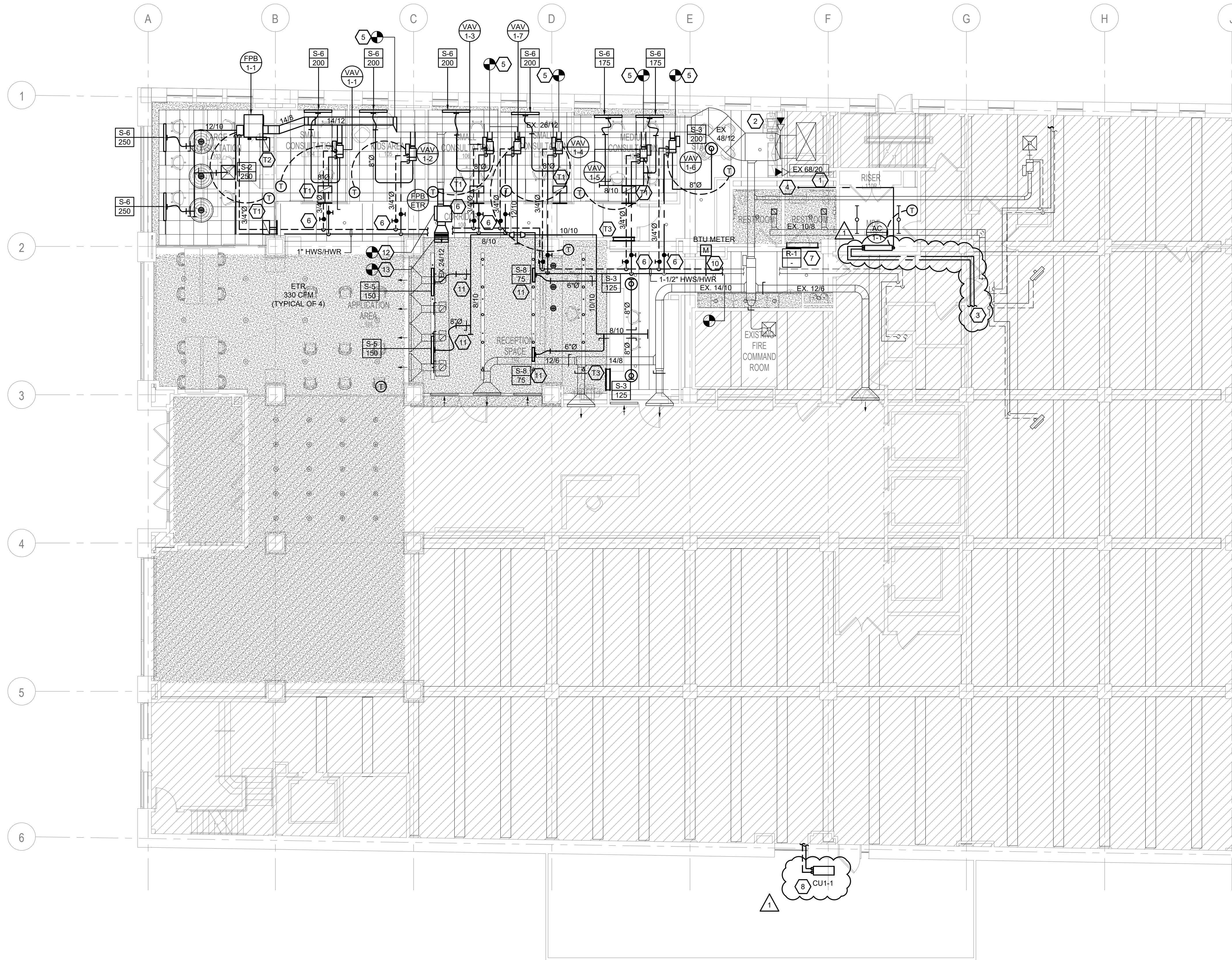
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2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	KAS & AGR	DCP

SHEET NAME:
7TH FLOOR MECHANICAL DEMOLITION PLAN

SHEET NO.:
M-104R

TRUE NORTH
PLAN NORTH



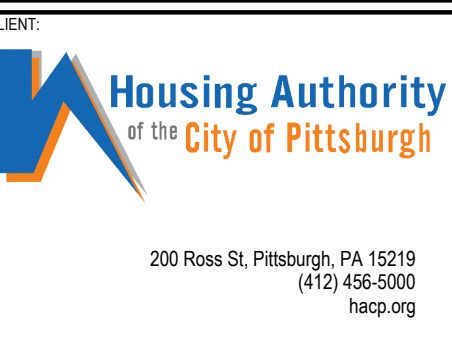
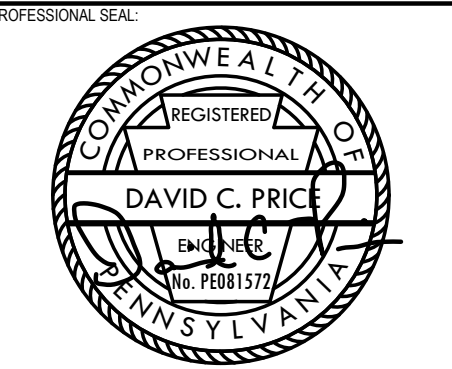
MECHANICAL GENERAL NOTES:

1. PROVIDE MERV 13 FILTERS AT ALL PARALLEL FAN POWERED BOX RETURN OPENINGS.
2. THERMOSTATS SHALL BE COMPATIBLE WITH THE EXISTING BAS CONTROLS. MC SHALL VERIFY EXISTING CONTROLS SYSTEM IN BUILDING PRIOR TO BID.
3. THERMOSTATS SHALL BE INSTALLED AT 44" ABOVE FINISHED FLOOR.
4. PROVIDE CONDENSATE PUMP FOR INDOOR SPLIT SYSTEM COOLING ONLY AIR HANDLING UNIT.
5. ALL CONDENSATE PIPING SHALL SLOPE NO LESS THAN 1/4" PER FOOT TOWARDS TERMINATION POINT.
6. VERIFY EXISTING BACNET ROUTER INSTALLED IN PREVIOUS WORK. HVAC CONTROLS ON THIS FLOOR SHALL BE ROUTED TO FIFTH FLOOR BACNET ROUTER UNLESS OTHERWISE NOTED.
7. INLET AND OUTLET OF FAN POWERED BOXES AND SINGLE DUCT VAV BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
8. NEW MECHANICAL EQUIPMENT SHALL BE INSTALLED NO LESS THAN 10 FEET FROM THE ROOF EDGE OR PARAPET. ANY MECHANICAL EQUIPMENT INSTALLED WITHIN 10 FEET OF ROOF EDGE SHALL BE PROVIDED WITH PROTECTIVE SERVICE RAILING FOR PROPER SERVICE AND MAINTENANCE OF EQUIPMENT.
9. MC TO PROVIDE PIPE SUPPORT STANDS ON ROOF FOR REFRIGERANT LINESETS. PIPE SUPPORTS SHALL BE PROVIDED EVERY 5'-0" OF HORIZONTAL RUN.
10. NEW SPLIT SYSTEM CONDENSING UNITS SHALL BE MOUNTED ON THE MANUFACTURER'S 18" UNIT STANDS WITH VIBRATION ISOLATION PADS.

MECHANICAL KEY NOTES: #

1. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 68X20 RETURN AIR DUCT STUBS INTO PLENUM CEILING. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
2. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
3. 5/8" SUCTION AND 3/8" LIQUID REFRIGERANT LINE SET SHALL BE ROUTED THROUGH OPEN CEILING SPACE TO ASSOCIATED OUTDOOR SPLIT SYSTEM CONDENSING UNIT ON LOW ROOF. PROVIDE FIRESTOPPING AROUND PIPING AT PENETRATIONS THROUGH FIRE RATED ENCLOSURES. COORDINATE ROUTING IN FIELD WITH EXISTING CONDITIONS.
4. 5/8" CONDENSATE DRAIN SHALL BE ROUTED TO AND TERMINATE AT NEW SAFFWASTE CONNECTION (BY P.C.) IN EXISTING RESTROOM AT LAVATORY SINK. MC SHALL COORDINATE FINAL INDIRECT CONNECTION WITH PC.
5. MEDIUM PRESSURE SUPPLY BRANCH CONNECTS TO EXISTING SUPPLY MAIN. MC TO VERIFY SIZE AND LOCATION OF EXISTING SUPPLY AIR DUCT IN FIELD AND PROVIDE TRANSITIONS AS NECESSARY FOR DUCT CONNECTION.
6. HOT WATER SUPPLY AND RETURN PIPING SHALL CONNECTS TO EXISTING HOT WATER PIPING. MC TO VERIFY LOCATION AND SIZE OF EXISTING PIPING IN FIELD.
7. TRANSFER GRILLE TO BE INSTALLED AT PARTITION WALL IN CORRIDOR AND SHALL BE DUCTED INTO RETURN CEILING PLENUM ABOVE RESTROOM.
8. CONDENSING UNIT TO BE INSTALLED ON OVERHANG ABOVE RAISED CONCRETE PATIO AT FIRST FLOOR. SUCTION AND LIQUID LINESETS SHALL BE ROUTED TO AHU-1. COORDINATE ROUTING IN FIELD. PROVIDE LONG LINE KIT APPLICATION FOR ALL REFRIGERANT LINESETS EXCEEDING 80 FEET. ACCESS TO MECHANICAL EQUIPMENT SHALL BE VIA TEMPORARY LADDER FROM PATIO LANDING, AS DISTANCE FROM LOW ROOF LEVEL TO LANDING IS LESS THAN 16 FEET. PROVIDE MANUFACTURER PROVIDED 12" MINIMUM HEAT PUMP STANDS WITH VIBRATION ISOLATION PADS. SCREENING SHALL BE PROVIDED AND SHALL BE VOIDED BY INSTALLATION OF HEAT PUMP STANDS. MC SHALL COORDINATE WITH GC TO PROVIDE MECHANICAL SCREENING AROUND CONDENSING UNIT IN ACCORDANCE WITH DISCRETION OF ZONING ADMINISTRATOR. GC SHALL PROVIDE MECHANICAL SCREEN AND MC SHALL COORDINATE FINAL LOCATION OF EQUIPMENT.
9. INSTALL ONICON SYSTEM-40 BTU METERING SYSTEM ON HOT WATER LINES ENTERING TENANT SPACE CONSISTING OF (2) TEMPERATURE SENSORS, (1) FLOW SENSOR, AND LOCAL DISPLAY. SYSTEM SHALL INCLUDE BACNET MSTP INTERFACE FOR DATA LOGGING.
10. LINEAR SLOT DIFFUSER TO BE INSTALLED IN RECESSED MODULAR LINEAR LIGHTING TRACK SYSTEM. DIFFUSER AND ENGINEERED PLENUM BOX TO BE HUNG FROM CEILING OR STRUCTURE ABOVE. FINAL LOCATION OF DIFFUSER SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN. BRANCH DUCTWORK CONNECTING TO DIFFUSER SHALL TRANSITION AND SHALL BE ROUTED AS NECESSARY TO AVOID STRUCTURAL BEAMS, EXISTING DUCTWORK AND PIPING.
11. EXISTING PARALLEL FAN POWERED VAV BOX AND ALL ASSOCIATED APPURTENANCES TO BE RELOCATED TO THIS LOCATION. HOT WATER SUPPLY AND RETURN PIPING SHALL BE RECONNECTED TO FAN POWERED BOX. EXTEND PIPING AS NECESSARY. VERIFY EXISTING SIZE AND LOCATION IN FIELD.
12. NEW SUPPLY DUCTWORK SHALL CONNECT TO RELOCATED FAN POWERED BOX. TRANSITION NEW DUCTWORK UP TO EXISTING ELEVATION OF SUPPLY DUCTWORK CONCEALED ABOVE DROPPED CEILING IN RECEPTION SPACE 102. MAKE TRANSITIONS AS NECESSARY TO CONNECT TO EXISTING DUCTWORK.

1 1ST FLOOR MECHANICAL PLAN - NEW WORK
M-201 1/8" = 1'-0"



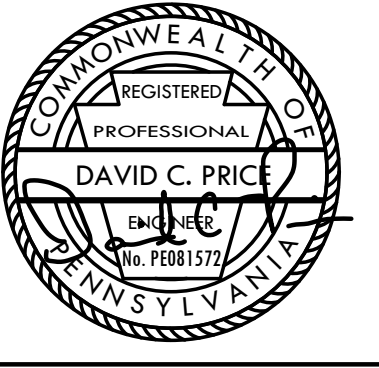
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PROJECT NO.	DRAWN BY	REVIEWED BY
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SHEET NAME:
1ST FLOOR MECHANICAL PLAN

SHEET NO.:
M-201R

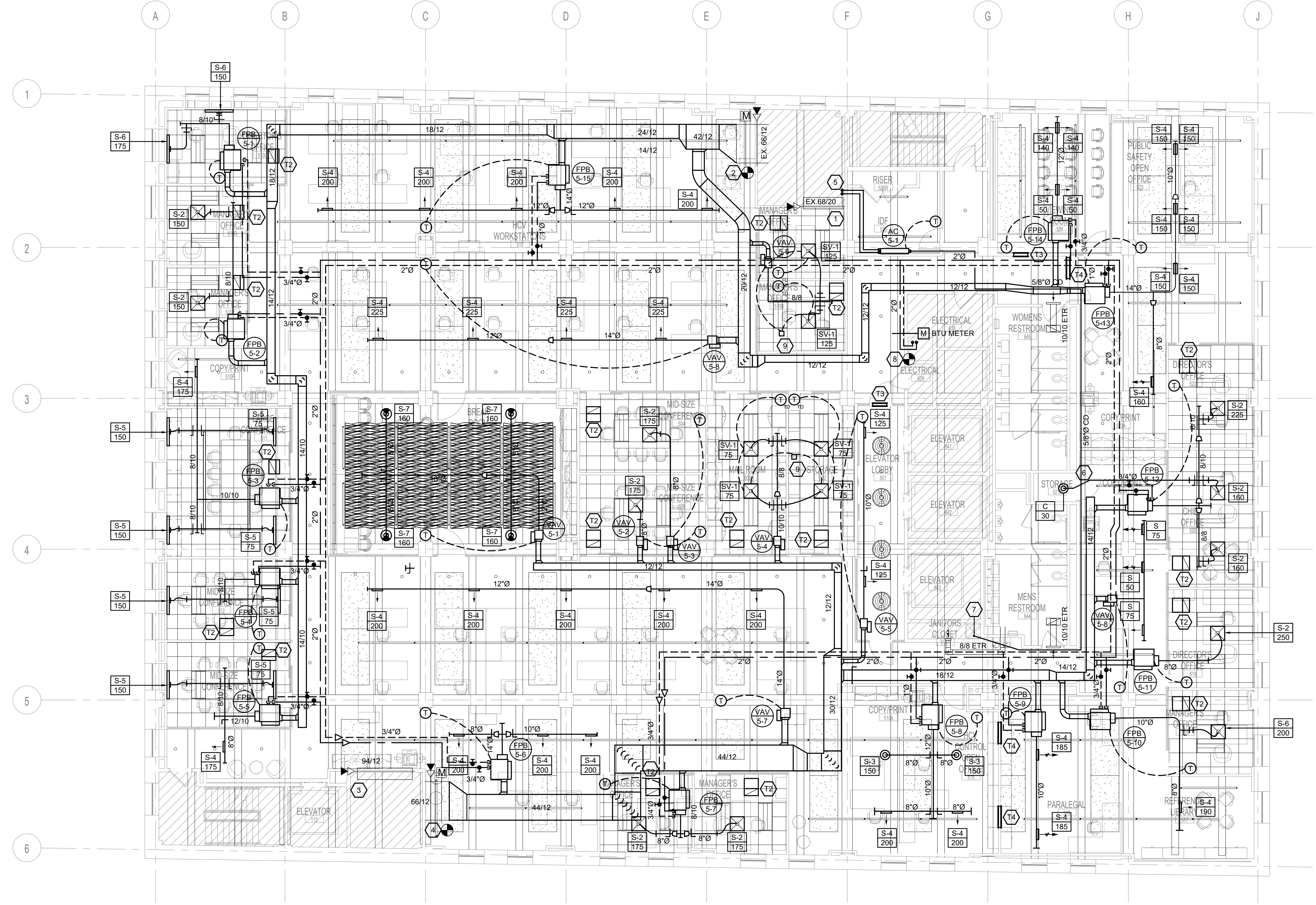


MECHANICAL GENERAL NOTES:

1. PROVIDE MERV 8 FILTERS AT ALL PARELLEL FAN POWERED BOX RETURN OPENINGS.
2. THERMOSTATS SHALL BE COMPATIBLE WITH THE EXISTING BAS CONTROLS. MC SHALL VERIFY EXISTING CONTROLS SYSTEM IN BUILDING PRIOR TO BID.
3. THERMOSTATS SHALL BE INSTALLED AT 44" ABOVE FINISHED FLOOR.
4. PROVIDE CONDENSATE PUMP FOR INDOOR SPLIT SYSTEM COOLING ONLY AIR HANDLING UNIT.
5. ALL CONDENSATE PIPING SHALL SLOPE NO LESS THAN 1/4" PER FOOT TOWARDS TERMINATION POINT UNLESS EQUIPPED WITH CONDENSATE PUMP.
6. VERIFY EXISTING BACNET ROUTER INSTALLED IN PREVIOUS WORK. HVAC CONTROLS ON THIS FLOOR SHALL BE ROUTED TO FIFTH FLOOR BACNET ROUTER UNLESS OTHERWISE NOTED.

MECHANICAL KEY NOTES:

1. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 68X20 RETURN AIR DUCT STUBS INTO PLENUM CEILING. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
2. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 66X12 SUPPLY AIR DUCT CONNECTS TO EXISTING DUCT RISER IN MECHANICAL SHAFT. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
3. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 94X12 RETURN AIR DUCT STUBS INTO PLENUM CEILING. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
4. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 66X12 SUPPLY AIR DUCT CONNECTS TO EXISTING DUCT RISER IN MECHANICAL SHAFT. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
5. 1/2" SUCTION AND 1/4" LIQUID REFRIGERANT LINE SET UP IN MECHANICAL CHASE TO ASSOCIATED OUTDOOR SPLIT SYSTEM CONDENSING UNIT ON ROOF. PROVIDE FIRESTOPPING AROUND PIPING AT SHAFT. PENETRATION. COORDINATE ROUTING IN FIELD WITH EXISTING CONDITIONS.
6. PROVIDE 1/2" UNDERCUT OF DOOR.
7. 5/8" CONDENSATE DRAIN SHALL BE ROUTED TO AND TERMINATE AT EXISTING JANITOR'S SINK IN EXISTING JANITOR'S CLOSET. MC SHALL COORDINATE FINAL INDIRECT CONNECTION WITH PC.
8. 2" HOT WATER SUPPLY AND RETURN CONNECT TO EXISTING RISER STACK AT CHASE. MC TO VERIFY EXISTING LOCATION OF RISER IN FIELD PRIOR TO BID AND SHALL LENGTHEN PIPING AS NECESSARY TO MAKE CONNECTION. PROVIDE FIRESTOPPING AT CHASE PENETRATION IN ACCORDANCE WITH THE IBC. INSTALL ONICON SYSTEM-40 SPLIT METERING SYSTEM ON HOT WATER LINES ENTERING TENANT SPACE CONSISTING OF (2) TEMPERATURE SENSORS, (1) FLOW SENSOR, AND LOCAL DISPLAY. SYSTEM SHALL INCLUDE BACNET MSTP INTERFACE FOR DATA LOGGING. PROVIDE ISOLATION MANUAL SHUTOFF VALVES AT RISER IF NOT EXISTING.
9. PRICE PRODIGY PPM POWER MODULE TO BE INSTALLED ABOVE CEILING. EC TO PROVIDE 120V ELECTRICAL CONNECTION TO MODULE. 96 VA 115/24 VAC TRANSFORMER AND DISCONNECT TO BE INTEGRAL WITH POWER MODULE.

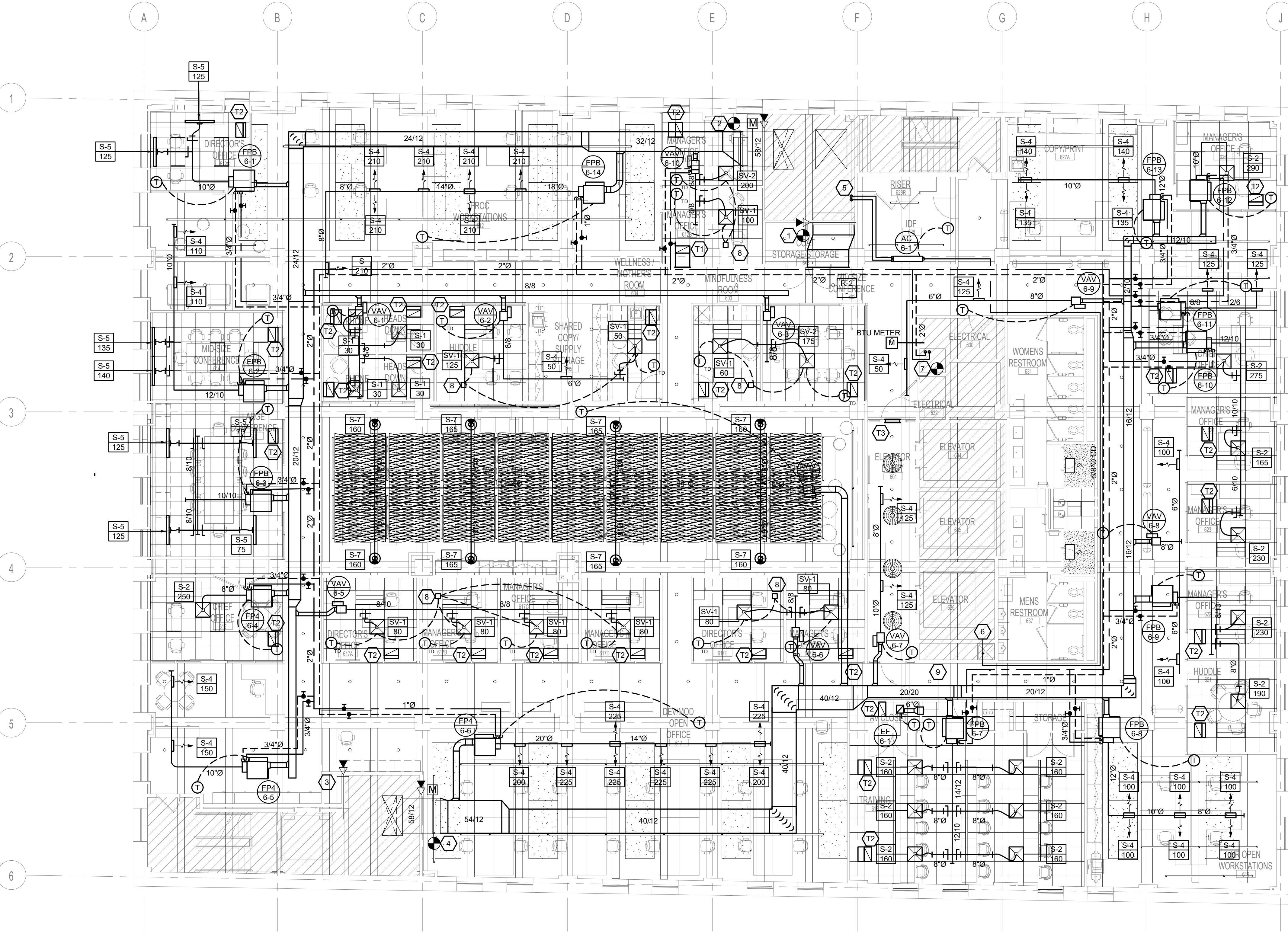


1 5TH FLOOR MECHANICAL PLAN
 M-202 1/8" = 1'-0"

1

NO.	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS	09/03/2020
4	100% CONSTRUCTION DOCUMENTS	07/30/2020
3	100% CONSTRUCTION DOCUMENTS	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	DESCRIPTION	DATE

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	KAS & AGR	DCP



MECHANICAL GENERAL NOTES:

1. PROVIDE MERV 8 FILTERS AT ALL PARELLEL FAN POWERED BOX RETURN OPENINGS.
2. THERMOSTATS SHALL BE COMPATIBLE WITH THE EXISTING BAS CONTROLS. MC SHALL VERIFY EXISTING CONTROLS SYSTEM IN BUILDING PRIOR TO BID.
3. THERMOSTATS SHALL BE INSTALLED AT 44" ABOVE FINISHED FLOOR.
4. PROVIDE CONDENSATE PUMP FOR INDOOR SPLIT SYSTEM COOLING ONLY AIR HANDLING UNIT.
5. ALL CONDENSATE PIPING SHALL SLOPE NO LESS THAN 1/4" PER FOOT TOWARDS TERMINATION POINT UNLESS EQUIPPED WITH CONDENSATE PUMP.
6. VERIFY EXISTING BACNET ROUTER INSTALLED IN PREVIOUS WORK. HVAC CONTROLS ON THIS FLOOR SHALL BE ROUTED TO SIXTH FLOOR BACNET ROUTER UNLESS OTHERWISE NOTED.

MECHANICAL KEY NOTES:

1. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 68X20 RETURN AIR DUCT RUNS TO GRILLE AT WALL PARTITION. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
2. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 58X12 SUPPLY AIR DUCT CONNECTS TO EXISTING DUCT RISER IN MECHANICAL SHAFT. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
3. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 94X12 RETURN AIR DUCT STUBS INTO OPEN OFFICE SPACE. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
4. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 58X12 SUPPLY AIR DUCT CONNECTS TO EXISTING DUCT RISER IN MECHANICAL SHAFT. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
5. 3/8" SUCTION AND 1/4" LIQUID REFRIGERANT LINE SET UP IN MECHANICAL CHASE TO ASSOCIATED OUTDOOR SPLIT SYSTEM CONDENSING UNIT ON ROOF. PROVIDE FIRESTOPPING AROUND PIPING AT SHAFT PENETRATION. COORDINATE ROUTING IN FIELD WITH EXISTING CONDITIONS.
6. 5/8" CONDENSATE DRAIN SHALL BE ROUTED TO AND TERMINATE AT EXISTING JANITOR'S SINK IN EXISTING JANITOR'S CLOSET. MC SHALL COORDINATE FINAL INDIRECT CONNECTION WITH PC.
7. 2" HOT WATER SUPPLY AND RETURN CONNECT TO EXISTING RISER STACK AT CHASE. MC TO VERIFY EXISTING LOCATION OF RISER IN FIELD PRIOR TO BID AND SHALL LENGTHEN PIPING AS NECESSARY TO MAKE CONNECTION. PROVIDE FIRESTOPPING AT CHASE PENETRATION IN ACCORDANCE WITH THE IBC. INSTALL ONICON SYSTEM 40 BTU METERS ON HOT WATER LINES ENTERING TENANT SPACE CONSISTING OF (2) TEMPERATURE SENSORS, (1) FLOW SENSOR, AND LOCAL DISPLAY. SYSTEM SHALL INCLUDE BACNET MSTP INTERFACE FOR DATA LOGGING. PROVIDE ISOLATION MANUAL SHUTOFF VALVES AT RISER IF NOT EXISTING.
8. PRICE PRODIGY PPM POWER MODULE TO BE INSTALLED ABOVE CEILING. EC TO PROVIDE 120V ELECTRICAL CONNECTION TO MODULE. 96 VA 115/24 VAC TRANSFORMER AND DISCONNECT TO BE INTEGRAL WITH POWER MODULE.
9. EXHAUST DUCTWORK TRANSITIONS TO 12"X6" DUCT STUBS INTO PLENUM SPACE ABOVE ACOUSTIC TILE CEILING.

1 6TH FLOOR MECHANICAL PLAN
 M-203 1/8" = 1'-0"

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS	09/03/2020
4	100% CONSTRUCTION DOCUMENTS	07/30/2020
3	100% CONSTRUCTION DOCUMENTS	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/27/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	DESCRIPTION	DATE

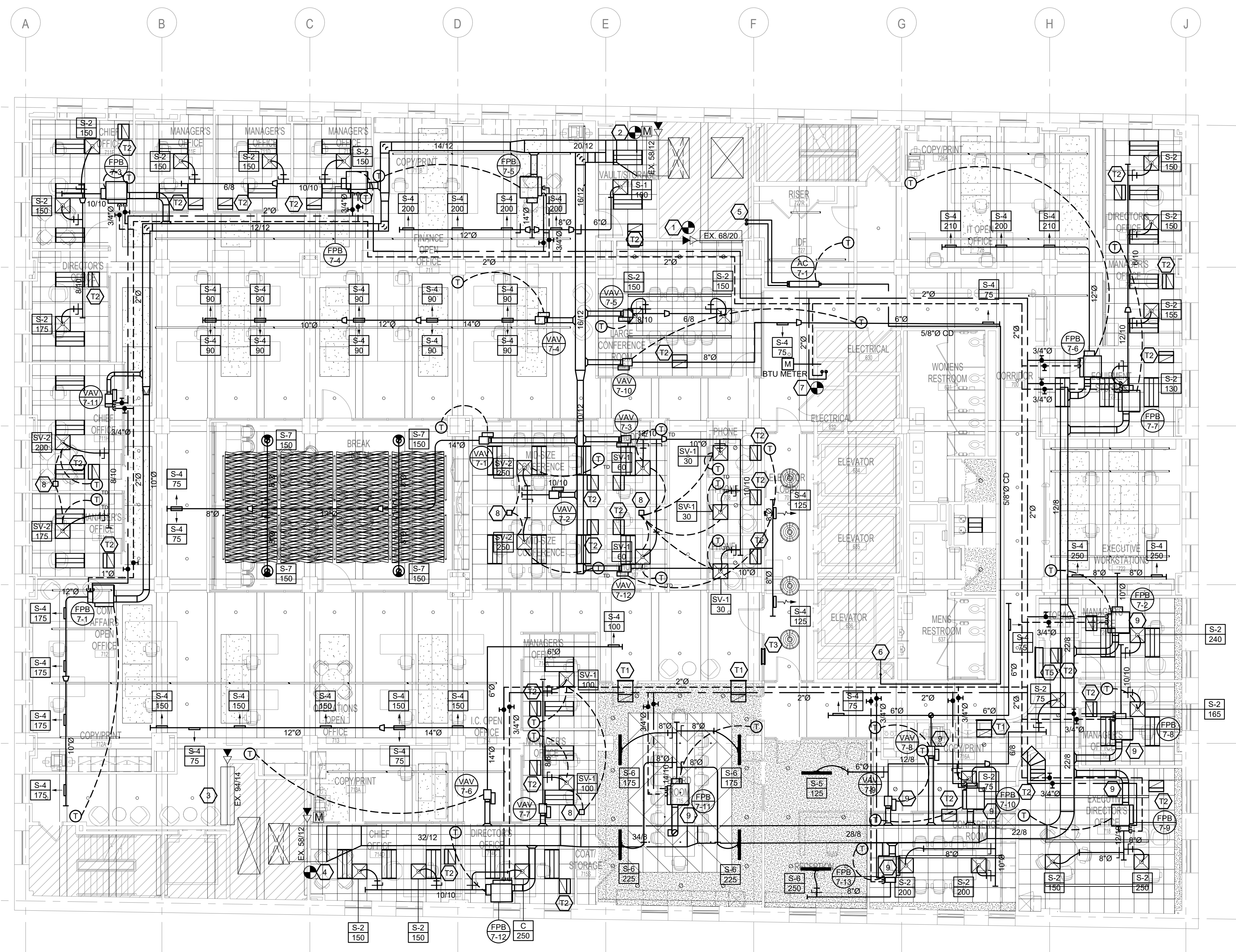
PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	KAS & AGR	DCP

MECHANICAL GENERAL NOTES:

1. PROVIDE MERV 8 FILTERS AT ALL PARALLEL FAN POWERED BOX RETURN OPENINGS.
2. THERMOSTATS SHALL BE COMPATIBLE WITH THE EXISTING BAS CONTROLS. MC SHALL VERIFY EXISTING CONTROLS SYSTEM IN BUILDING PRIOR TO BID.
3. THERMOSTATS SHALL BE INSTALLED AT 4" ABOVE FINISHED FLOOR.
4. PROVIDE CONDENSATE PUMP FOR INDOOR SPLIT SYSTEM COOLING ONLY AIR HANDLING UNIT.
5. ALL CONDENSATE PIPING SHALL SLOPE NO LESS THAN 1/4" PER FOOT TOWARDS TERMINATION POINT UNLESS EQUIPPED WITH CONDENSATE PUMP.
6. VERIFY EXISTING BACNET ROUTER INSTALLED IN PREVIOUS WORK. HVAC CONTROLS ON THIS FLOOR SHALL BE ROUTED TO FIFTH FLOOR BACNET ROUTER UNLESS OTHERWISE NOTED.

MECHANICAL KEY NOTES:

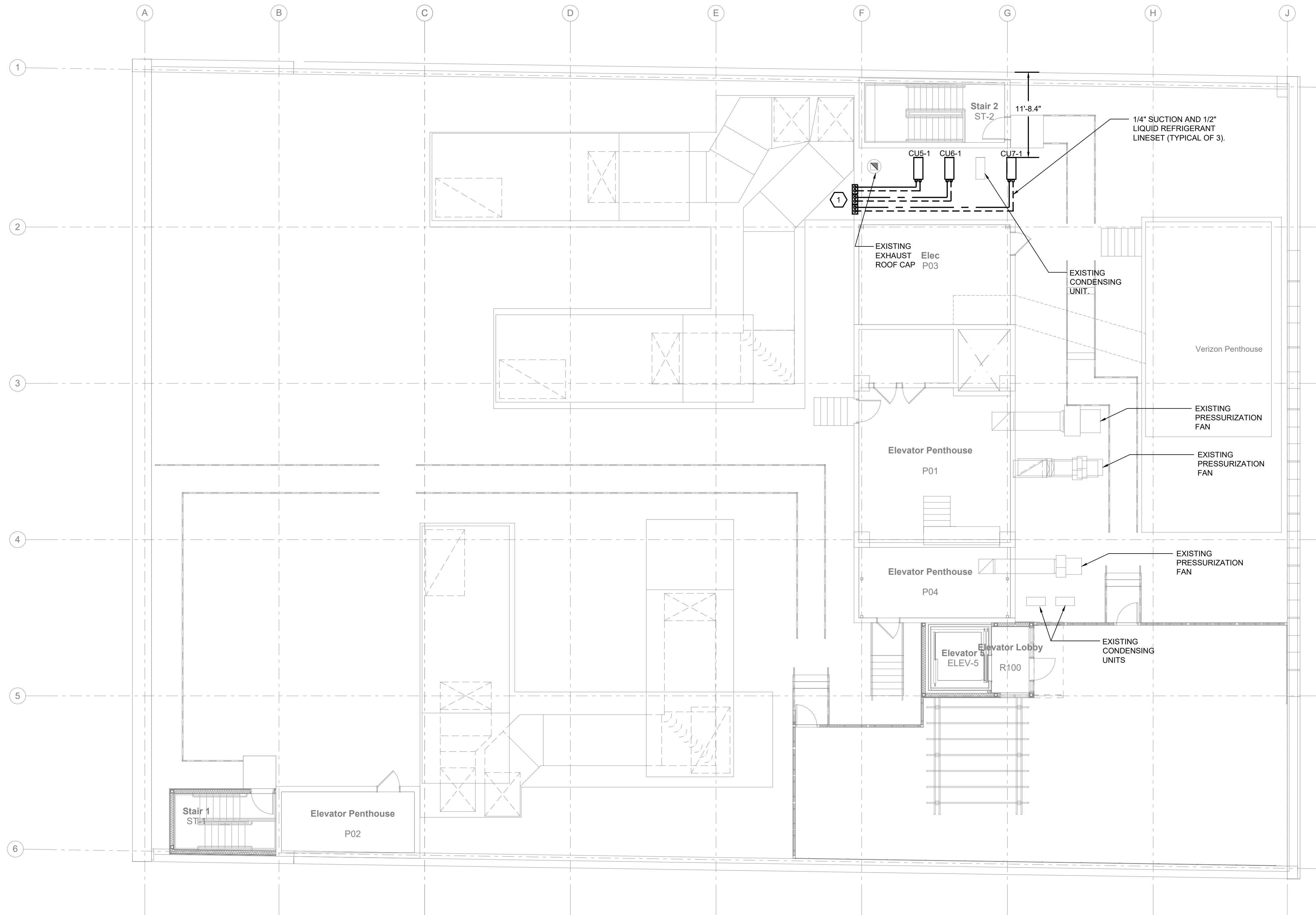
1. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 68X20 RETURN AIR DUCT STUBS INTO PLENUM CEILING. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
2. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 58X12 SUPPLY AIR DUCT CONNECTS TO EXISTING DUCT RISER IN MECHANICAL SHAFT. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
3. FIELD CONFIRM SIZE AND LOCATION OF RETURN AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 94X14 RETURN AIR DUCT STUBS INTO OPEN OFFICE SPACE. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING SHALL BE EXISTING TO REMAIN. PROVIDE BIRDSCREEN AT DUCT OPENING.
4. FIELD CONFIRM SIZE AND LOCATION OF SUPPLY AIR OPENING INTO SHAFT. CREATE NEW OPENING AS NECESSARY. 58X12 SUPPLY AIR DUCT CONNECTS TO EXISTING DUCT RISER IN MECHANICAL SHAFT. VERTICAL COMBINATION FIRE/SMOKE DAMPER (FSD) AT SHAFT OPENING AND MOTORIZED DAMPER DOWNSTREAM OF FSD SHALL BE EXISTING TO REMAIN. MOTORIZED DAMPER SHALL BE REPROGRAMMED TO BE CONTROLLED BY THE OWNER AND SHALL BE NORMALLY OPEN.
5. 3/8" SUCTION AND 1/4" LIQUID REFRIGERANT LINE SET UP IN MECHANICAL CHASE TO ASSOCIATED OUTDOOR SPLIT SYSTEM CONDENSING UNIT ON ROOF. PROVIDE FIRESTOPPING AROUND PIPING AT SHAFT PENETRATION. COORDINATE ROUTING IN FIELD WITH EXISTING CONDITIONS.
6. 5/8" CONDENSATE DRAIN SHALL BE ROUTED TO AND TERMINATE AT EXISTING JANITOR'S SINK IN EXISTING JANITOR'S CLOSET. MC SHALL COORDINATE FINAL INDIRECT CONNECTION WITH PC.
7. 2" HOT WATER SUPPLY AND RETURN CONNECT TO EXISTING RISER STACK AT CHASE. MC TO VERIFY EXISTING LOCATION OF RISER IN FIELD PRIOR TO BID AND SHALL LENGTHEN PIPING AS NECESSARY TO MAKE CONNECTION. PROVIDE FIRESTOPPING AT CHASE PENETRATION. COORDINATE WITH THE IBC. INSTALL ONKON SYSTEM 40 BTU METERING SYSTEM ON HOT WATER LINES ENTERING TENANT SPACE CONSISTING OF (2) TEMPERATURE SENSORS, (1) FLOW SENSOR, AND LOCAL DISPLAY. SYSTEM SHALL INCLUDE BACNET MSTP INTERFACE FOR DATA LOGGING. PROVIDE ISOLATION MANUAL SHUTOFF VALVES AT RISER IF NOT EXISTING.
8. PRICE PRODIGY PPM POWER MODULE TO BE INSTALLED ABOVE CEILING. EC TO PROVIDE 120V ELECTRICAL CONNECTION TO MODULE. 96 VA 115/24 VAC TRANSFORMER AND DISCONNECT TO BE INTEGRAL WITH POWER MODULE.
9. PARALLEL FAN POWERED BOX OR SINGLE DUCT VAV BOX SHALL BE INSTALLED IN BETWEEN STRUCTURAL MEMBERS SUCH THAT EQUIPMENT FITS ABOVE CEILING HEIGHT DENOTED IN ARCHITECT'S REFLECTED CEILING PLANS. PROVIDE DUCT TRANSITIONS AS NECESSARY FROM SUPPLY MAIN TO EQUIPMENT AND FROM DISCHARGE OUTLET TO ASSOCIATED DIFFUSERS AND GRILLES SUCH THAT CEILING HEIGHT IS MAINTAINED.



1 7TH FLOOR MECHANICAL PLAN
 M-204 1/8" = 1'-0"

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	DESCRIPTION	DATE

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	KAS & AGR	DCP



MECHANICAL GENERAL NOTES:

1. VERIFY LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, AND PIPING ON ROOF PRIOR TO BID. COORDINATE LOCATION OF NEW EQUIPMENT WITH EXISTING CONDITIONS.
2. NEW MECHANICAL EQUIPMENT SHALL BE INSTALLED NO LESS THAN 10 FEET FROM THE ROOF EDGE OR PARAPET. ANY MECHANICAL EQUIPMENT INSTALLED WITHIN 10 FEET OF ROOF EDGE SHALL BE PROVIDED WITH PROTECTIVE SERVICE RAILING FOR PROPER SERVICE AND MAINTENANCE OF EQUIPMENT.
3. MC TO PROVIDE INSULATED PIPE PORTAL FOR EACH NEW REFRIGERANT LINESET. COORDINATE FINAL LOCATION OF PIPE PORTAL WITH EXISTING EQUIPMENT ON ROOF AND STRUCTURE BELOW.
4. MC TO PROVIDE PIPE SUPPORT STANDS ON ROOF FOR REFRIGERANT LINESETS. PIPE SUPPORTS SHALL BE PROVIDED EVERY 5'-0" OF HORIZONTAL RUN.
5. NEW SPLIT SYSTEM CONDENSING UNITS SHALL BE MOUNTED ON THE MANUFACTURER'S 18" UNIT STANDS WITH VIBRATION ISOLATION PADS.
6. MC SHALL COORDINATE WITH GC TO PROVIDE MECHANICAL SCREENING AROUND CONDENSING UNIT IN ACCORDANCE WITH DISCRETION OF ZONING ADMINISTRATOR. GC SHALL PROVIDE MECHANICAL SCREEN AND MC SHALL COORDINATE FINAL LOCATION OF EQUIPMENT.

MECHANICAL KEY NOTES: #

1. 1/4" SUCTION AND 1/2" LIQUID REFRIGERANT LINESET DN IN INSULATED PIPE PORTAL TO CHASE BELOW. COORDINATE FINAL LOCATION OF PIPE PORTAL WITH EXISTING DUCTWORK, PIPES, AND STRUCTURE WITHIN CHASE. (TYPICAL OF 3)

1 ROOF MECHANICAL PLAN
 M-205R 1/8" = 1'-0"

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020
#	PROJECT ISSUANCE	

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	KAS & AGR	DCP

THERMAL INSULATION SCHEDULE

SYSTEM	SYSTEM- LOCATION	OPERATING TEMPERATURE	MATERIAL	SMACNA CLASS					REMARKS
				TYPE	THICKNESS IN.S	DENSITY LB/CU. FT.	INSTALLED "R" VALUE/ CONDUCTIVITY	JACKET	
DUCT	SUPPLY AIR DUCT - INDOOR CONCEALED, ACCESSIBLE	40-120	MINERAL-FIBER	BLANKET	2.0"	0.75	5.0	FSK	1,5
DUCT	SUPPLY AIR DUCT - INDOOR CONCEALED, INACCESSIBLE	40-120	MINERAL-FIBER	BOARD	1.5"	2.25	6.5	FSK	2
DUCT	SUPPLY AIR DUCT - INDOOR EXPOSED	40-120	MINERAL-FIBER	BOARD	1.0	2.25	5.0	ASJ	1,5
DUCT	SUPPLY, RETURN, RELIEF, EXHAUST DUCT - OUTDOORS AND UNCONDITIONED	40-120	*	*	*	*	12	FSK	7
DUCT	EXHAUST DUCT WITHIN 10 FEET OF EXTERIOR OPENING - INDOOR	40-120	MINERAL-FIBER	BOARD	1.0"	2.25	4.3	FSK	
PIPING	HEATING WATER SUPPLY AND RETURN	120-200	MINERAL-FIBER	PRE-MOLDED	REFER TO PIPING INSULATION THICKNESS SCHEDULE			ASJ+SSL	6
PIPING	CHILLED WATER/REFRIGERANT/ GLYCOL - CONDITIONED SPACE	40-60	MINERAL-FIBER	PRE-MOLDED				ASJ+SSL	6
PIPING	CHILLED WATER/REFRIGERANT/ GLYCOL - UNCONDITIONED SPACE	40-60	MINERAL-FIBER WICKING	PRE-MOLDED				ASJ+SSL	6
PIPING	COLD CONDENSATE DRAIN - INDOOR, ONLY ON METAL PIPE	40-60	MINERAL-FIBER	PRE-MOLDED				ASJ+SSL	7
PIPING	OUTDOOR PIPING EXPOSED TO FREEZING (HEAT TRACED PIPE)	40-100	MINERAL-FIBER	PRE-MOLDED				ALUM.	

- NOTES:**
- CONCEALED, ACCESSIBLE LOCATIONS - ABOVE LAY-IN OR ACCESSIBLE CEILINGS, ACCESSIBLE MECHANICAL SHAFTS.
 - CONCEALED, INACCESSIBLE LOCATIONS - ABOVE HARD CEILINGS, (DRY WALL, PLASTER), MECHANICAL SHAFTS, BEHIND WALLS.
 - FOR DUCTS LOCATED OUTDOORS PROVIDE WATERPROOF CONSTRUCTION WITH WATER & UV RESISTANT MASTIC ON ALL JOINTS. INTERNALLY LINE WITH ACOUSTICAL DUCT LINER. CROSS-BREAK TOP TO SHED WATER.
 - CONSTRUCT PER NFPA 96 STANDARDS FOR KITCHEN EXHAUST. WHERE LOCATED WITH 3" OF COMBUSTIBLE PROTECT COMBUSTIBLE MATERIALS. WRAP EXTERIOR WITH FIRE RESISTANT INSULATION.
 - DO NOT INSULATE:
 - MAKE-UP AIR DUCTWORK OPERATING AT SURROUNDING AMBIENT CONDITIONS
 - RETURN AND EXHAUST AIR DUCTWORK LOCATED INDOORS.
 - TRANSFER AIR DUCTWORK (ACOUSTICALLY LINE DUCT)
 - EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE. (DOES NOT INCLUDE RETURN AIR PLENUM)
 - COVER ALL EXPOSED PIPING LOCATED BELOW 7' 0" ABOVE FINISHED FLOOR WITH PVC JACKET.
 - MULTIPLE INSULATION METHODS MAY BE USED TO ACHIEVE THE TOTAL REQUIRED R-VALUE.
 - DUCTWORK SHALL BE PAINTED WHERE EXPOSED OR VISIBLE TO OCCUPANTS. COLOR TO BE SELECTED BY ARCHITECT. PAINTING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

SPLIT SYSTEM AIR-COOLED A/C UNIT SCHEDULE

TAG	NOMINAL TONS	TOTAL CAPACITY MBH	EVAPORATOR					CONDENSER					REMARKS		
			SENS. CAPACITY MBH	CFM (DRY COIL)	MCA/MFS	ELECTRICAL VOLTS/PH.	MANUF. / EVAPORATOR MODEL	TAG	EAT COOL/ HTG	SEER	MCA/MOCP	ELECTRICAL VOLTS/PH.		MANUF. / CONDENSER MODEL	WEIGHT
AC 1-1	2.0	24.0	18.0	635-775	1.0A/SERVED FROM CONDENSER	208 V/1Ø	MITSUBISHI PKA-A24HA7	CU 1-1	95.0 / 5.0	21.4	19.0/30 A.	208 V/1Ø	MITSUBISHI PUY-A24NKA7	151 LBS.	1,2,3,4,5,6,7,8,9,10
AC 5-1	1.0	12.0	9.0	320-425	1.0A/SERVED FROM CONDENSER	208 V/1Ø	MITSUBISHI PKA-A12HA7	CU 5-1	95.0 / 5.0	20.8	12.0/30 A.	208 V/1Ø	MITSUBISHI PUY-A12NKA7	92 LBS.	1,2,3,4,5,6,7,8,9,10
AC 6-1	1.0	12.0	9.0	320-425	1.0A/SERVED FROM CONDENSER	208 V/1Ø	MITSUBISHI PKA-A12HA7	CU 6-1	95.0 / 5.0	20.8	12.0/30 A.	208 V/1Ø	MITSUBISHI PUY-A12NKA7	92 LBS.	1,2,3,4,5,6,7,8,9,10
AC 7-1	1.0	12.0	9.0	320-425	1.0A/SERVED FROM CONDENSER	208 V/1Ø	MITSUBISHI PKA-A12HA7	CU 7-1	95.0 / 5.0	20.8	12.0/30 A.	208 V/1Ø	MITSUBISHI PUY-A12NKA7	92 LBS.	1,2,3,4,5,6,7,8,9,10

- NOTES:**
- CAPACITY BASED ON 80 DEG. F. DB/67 DEG. F. WB EAT ON EVAPORATOR
 - UNIT SHALL BE EQUIPPED WITH A WIND BAFFLE FOR OPERATION DOWN TO 0 DEG.S F.
 - PROVIDE DISCONNECT AT EACH OUTDOOR AND INDOOR UNITS.
 - PROVIDE INTEGRAL UNIT CONTROLS AND A WALL MOUNTED THERMOSTAT/CONTROLLER MODEL.
 - PROVIDE LOW AMBIENT KIT ACCESSORY.
 - PROVIDE CONDENSATE PUMP WITH RESERVOIR AND SENSOR THAT SHALL SHUT UNIT DOWN UPON ALARM OF SENSOR.
 - DDC CONTROLS COMPATIBLE WITH BUILDING CONTROL SYSTEM.
 - PROVIDE 18" UNIT STANDS FOR CONDENSING UNIT WITH VIBRATION ISOLATION PADS.
 - RATED VERTICAL HEIGHT DIFFERENCE BETWEEN EVAPORATOR AND CONDENSER SHALL BE 100 FEET. PROVIDE LONG LINE APPLICATIONS FOR ALL LINESETS EXCEEDING 80 FEET IN LENGTH.
 - POWER FROM CONDENSER TO INDOOR FAN COIL UNIT SHALL BE PROVIDED AND COORDINATED WITH EC.

PIPE INSULATION THICKNESS SCHEDULE

FLUID OPERATING TEMPERATURE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (IN)				
	CONDUCTIVITY BTU-IN.(h-ft ² -°F)	MEAN RATING TEMPERATURE (°F)	< 1	1 to < 1 1/2	1 1/2 < 4	4 to < 8	≥ 8
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

- REMARKS:**
- PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE ABOVE (IECC 2015 TABLE C403.2.10) WITH THE FOLLOWING EXCEPTIONS:
- FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT TESTED AND RATED IN ACCORDANCE WITH A TEST PROCEDURE REFERENCED BY THIS CODE.
 - FACTORY-INSTALLED PIPING WITHIN ROOM FAN-COILS AND UNIT VENTILATORS TESTED AND RATED ACCORDING TO AHRI 330 (EXCEPT THAT THE SAMPLING AND VARIATION PROVISIONS OF SECTION 6.5 SHALL NOT APPLY) AND AHRI 840, RESPECTIVELY.
 - PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60°F AND 105°F.
 - PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF FOSSIL FUELS OR ELECTRIC POWER.
 - STRAINERS, CONTROL VALVES, AND BALANCE VALVES ASSOCIATED WITH PIPING 1 INCH OR LESS IN DIAMETER.
 - DIRECT BURIED PIPING THAT CONVEYS FLUIDS AT OR BELOW 60°F.

TRANSFER AIR DUCT SCHEDULE

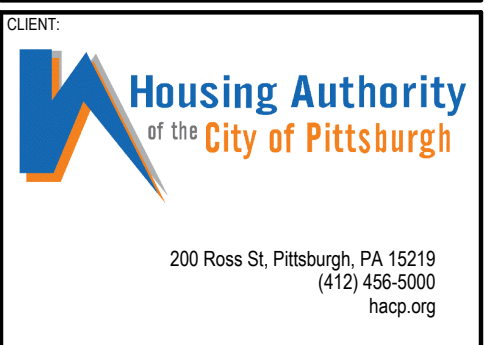
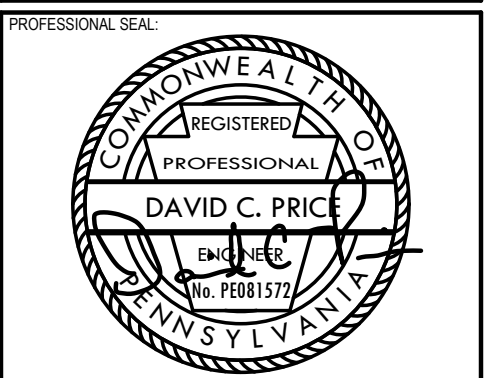
DESIGNATION	DUCT SIZE	CFM RANGE	DETAIL
T1	24 x 12	0-1200	#1/M301
T2	24 x 12	0-1200	#12/M301
T3	24 x 12	0-1200	-
T4	36 x 12	1201-2400	-
T5	48 x 12	2401-3600	-

- NOTES:**
- SIZING BASED ON 0.057/100 FT. P.D. - 700 FPM
 - REFER TO DETAIL FOR DUCT CONFIGURATION.
 - PROVIDE 1" THICK ACOUSTICAL LINER.

EXHAUST FAN SCHEDULE

MARK	SERVES	TYPE	BASIS OF DESIGN (GREENHECK)	CFM	SP IN WC	RPM	MAX SONES (INLET)	WALL/ ROOF OPENING SIZE	MOTOR		REMARKS
									HP (WATT)	VOLTS/ PH	
EF 6-1	205 RESTROOM	CABINET	QTXE080	75	0.3	950	0.3	6"Ø	(23.3)	120/1	1,2,3,4

- REMARKS:**
- PROVIDE INTEGRAL BACKDRAFT DAMPER.
 - PROVIDE DISCONNECT SWITCH.
 - FAN SHALL BE CONTROLLED VIA WALL MOUNTED THERMOSTAT SET TO MAINTAIN A SPACE TEMPERATURE SETPOINT OF NO GREATER THAN 80 DEGREES FAHRENHEIT.
 - PROVIDE SPRING VIBRATION ISOLATION HANGERS.



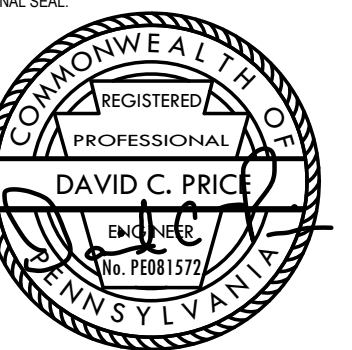
HACP - Housing Authority of the City of Pittsburgh
 412 Boulevard of the Allies, Pittsburgh, PA 15219

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
5	100% CONSTRUCTION DOCUMENTS REVISION #5	09/03/2020
4	100% CONSTRUCTION DOCUMENTS REVISION #2	07/30/2020
3	100% CONSTRUCTION DOCUMENTS REVISION #1	07/09/2020
2	100% CONSTRUCTION DOCUMENTS	05/22/2020
1	100% DESIGN DEVELOPMENT	01/23/2020

PROJECT NO: 190427.00 DRAWN BY: KAS & AGR REVIEWED BY: DCP
 SHEET NAME: MECHANICAL SCHEDULES
 SHEET NO: M-402R
 TRUE NORTH
 PLAN NORTH



2840 LIBERTY AVENUE SUITE 403
PITTSBURGH, PA 15222
(412) 932 2044
www.ae7.com



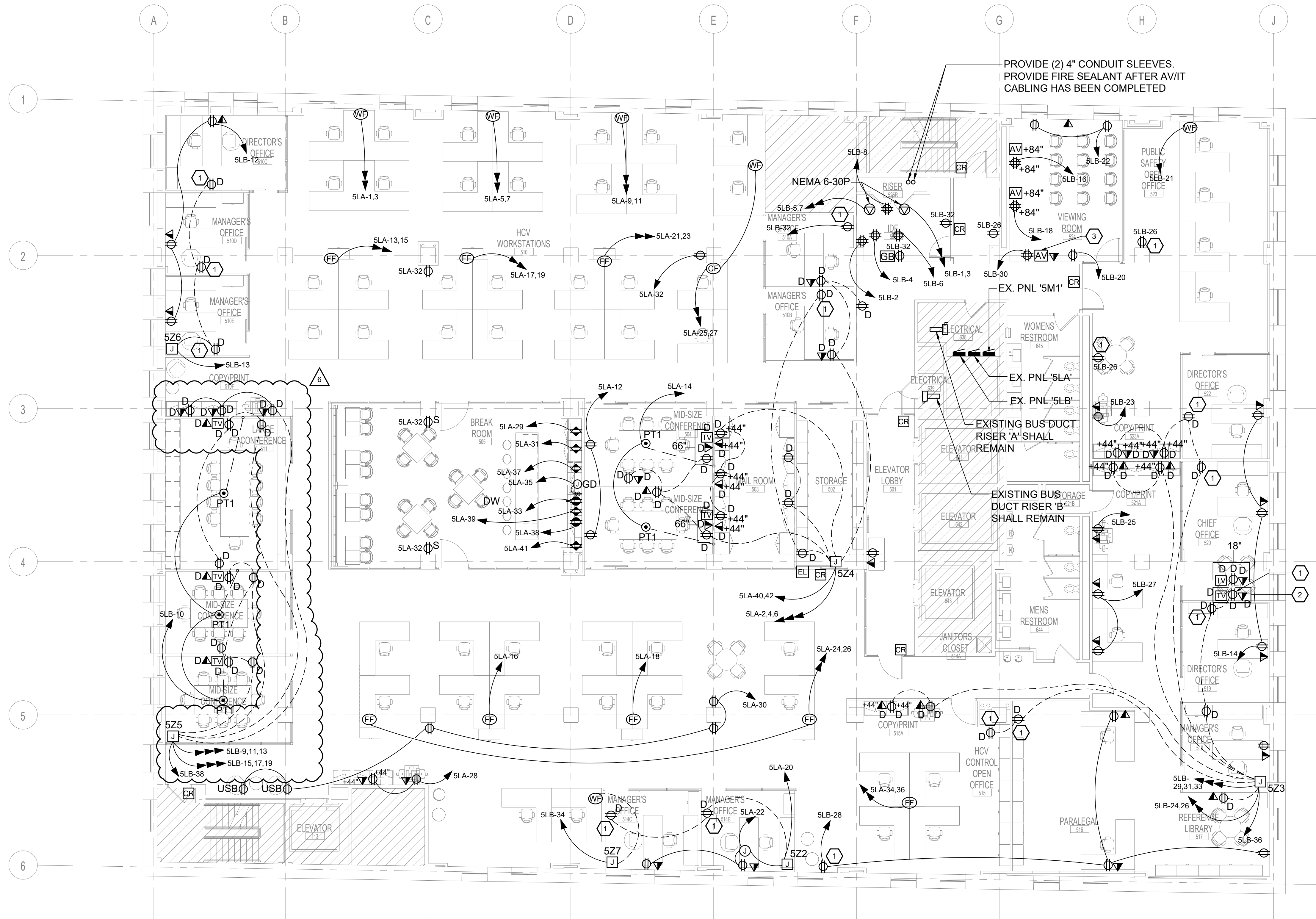
Allen & Shariff
DESIGN | BUILD | MANAGE
Allen & Shariff Engineering, LLC
700 River Avenue, Suite 600
Pittsburgh, PA 15212
Tel: 412.322.9280

Housing Authority
of the City of Pittsburgh
200 Ross St. Pittsburgh, PA 15219
(412) 456-5000
hacp.org

HACP - Housing Authority of the City of Pittsburgh
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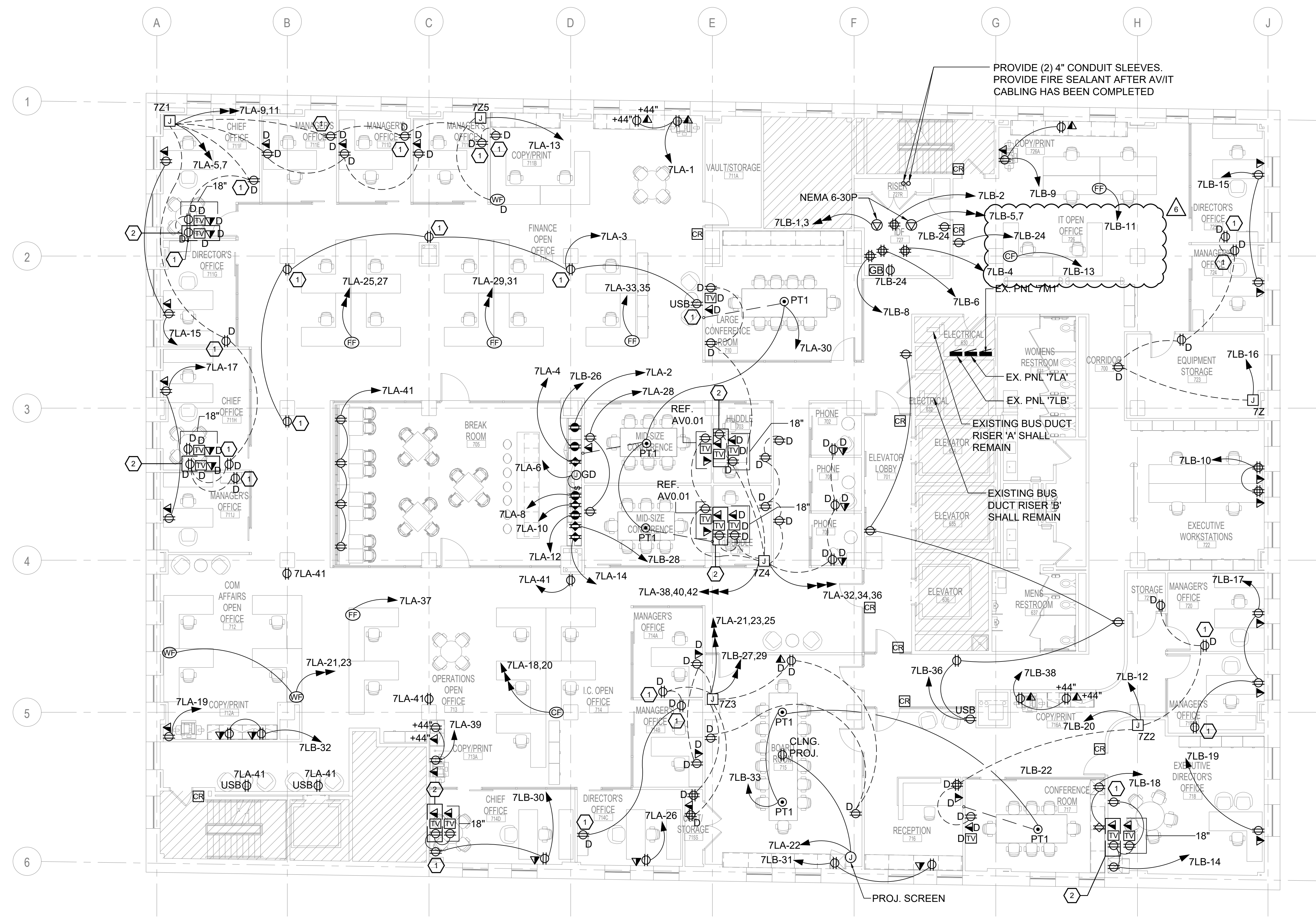
POWER KEY NOTES: #

1. ELECTRICAL CONTRACTOR SHALL PROVIDE NIGHT MPP20 PL PLUG LOAD CONTROL PACK FOR THIS RECEPTACLE.
2. THESE (3) DEVICES ARE IN THE DEMOUNTABLE PARTITION AND MOUNTED PER DWG AV0.01. COORDINATE FINAL LOCATION WITH ARCHITECT.
3. PROVIDE A (3) GANG LOW VOLTAGE OPEN ROUGH-IN WITH (2) 2" CONDUITS UP TIGHT TO ABOVE CLOUD CEILING. PROVIDE PULL STRING.



POWER KEY NOTES: #

1. ELECTRICAL CONTRACTOR SHALL PROVIDE NIGHT MPP20 PLUG LOAD CONTROL PACK FOR THIS RECEPTACLE.
2. THESE (3) DEVICES ARE IN THE DEMOUNTABLE PARTITION AND MOUNTED PER DWG. AV0.01. COORDINATE FINAL LOCATION WITH ARCHITECT.



1 7TH FLOOR POWER PLAN
 E-304 1/8" = 1'-0"

ALL BRANCH CIRCUITING RACEWAY, MC CABLE AND BRANCH CIRCUITING SHALL BE ROUTED IN A NEAT, ORGANIZED AND ORDERLY FASHION, TIGHT TO BUILDING STRUCTURE AND AT 90 DEGREE BENDS.

#	DESCRIPTION	DATE
6	ADDENDUM #6	02/10/2021
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1	100% DESIGN DEVELOPMENT	01/23/2020
#	DESCRIPTION	DATE

PROJECT NO.	DRAWN BY	REVIEWED BY
190427.00	MWM	DEB

PROJECT NAME	SHEET NO.
7TH FLOOR POWER PLAN	E-304R

TRUE NORTH
 PLAN NORTH