GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

RENOVATION OF DMV INSPECTION STATION AT HALF STREET, SW

Solicitation No.: DCAM-15-CS-0147

Amendment No. 5
Issued: July 24, 2015

This Amendment No. 5 is issued and hereby published on the DGS website on July 24, 2015. Except as modified hereby, the Invitation for Bids ("IFB") remains unmodified.

Item #1 B.3.1 DGS SPECIFICATIONS

Insert: The Drawings and Specifications have been updated. The addendum should be included as part of the general contractor's response to the IFB.

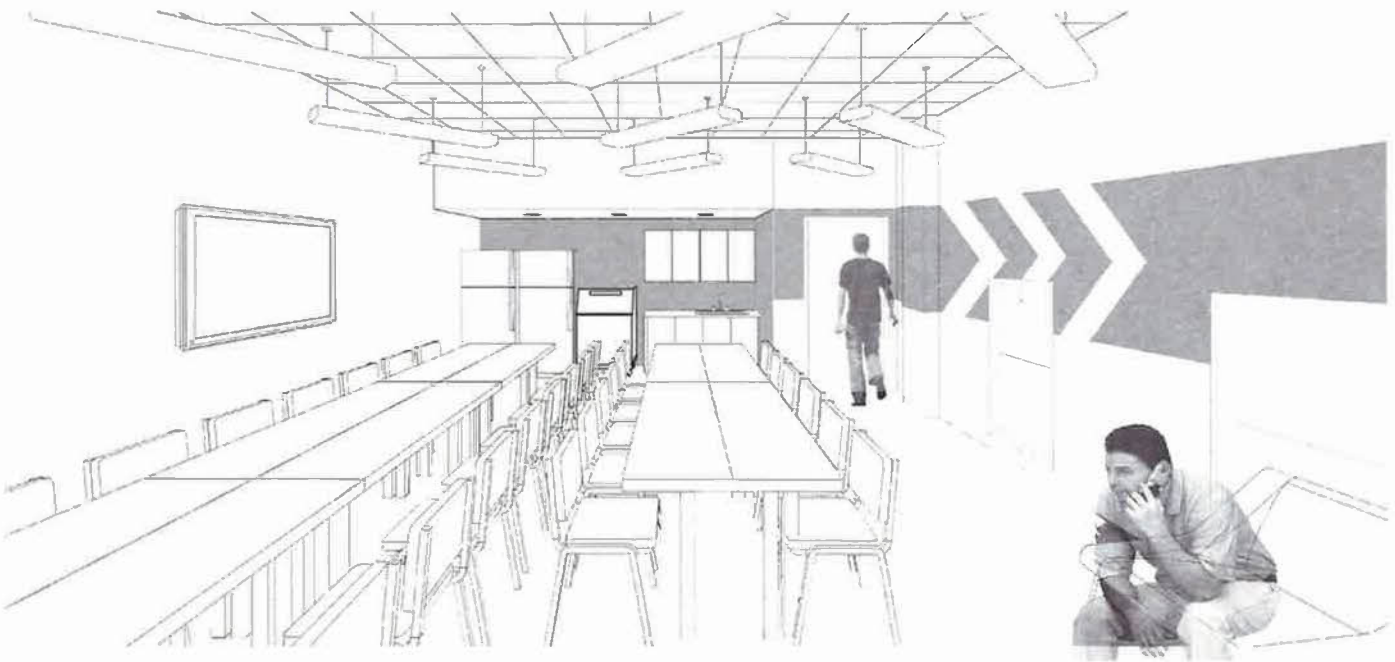
Item #2 F.3.1 BID OPENING:

A public Bid Opening will be held at 2:30 on July 30, 2015 at the 2nd Floor Community Room Center at the Reeves Center located at 2000 14th Street, NW Washington, DC 20009.

By: James H. Marshall
James Marshall
Supervisory Contract Specialist

Date: 7.24.15

- End of Amendment No. 5-



DMV INSPECTION STATION

PERMIT SET - FOR PRICING

22 JUNE 2015

DGS THE DEPARTMENT OF GENERAL SERVICES

DC DMV DISTRICT OF COLUMBIA DEPARTMENT OF MOTOR VEHICLES

ISTUDIO architecture design planning
1611 Connecticut Ave #200 Washington DC 20009
ISTUDIO architects.com T 202.758.2037

15001 DMV INSPECTION STATION

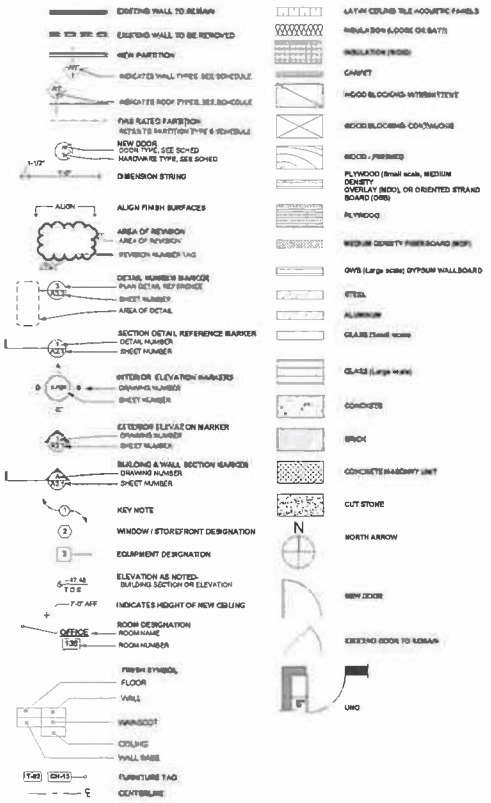
PERMIT SET

22 JUNE 2015

ABBREVIATIONS

<	Angle	INCAN	Incandescent
@	At	INCL	Include(d)
#	Number	INSUL	Insulation
	Centerline	INT	Interior
⌀	Diameter	JAN	Janitor
1X	One-inch nominal thickness	JT	Joint
2X	Two-inch nominal thickness	KIT	Kitchen
ABV	Above	LAV	Lavatory
AC	Air Conditioning	LEV	Level
ACOUST	Acoustical	MAS	Masonry
ACT	Acoustical Ceiling Tile	MAX	Maximum
ADJ	Adjacent, Adjustable	MDF	Medium Density Fiberboard
AFF	Above Finish Floor	MDO	Medium Density Overlay
AHU	Air Handler Unit	MECH	Mechanical
ALT	Alternate	MEZZ	Mezzanine
ALUM	Aluminum	MFR	Manufacturer('S)
ANOD	Anodized	MIN	Minimum
APPROX	Approximate	MISC	Miscellaneous
BD	Board (or Bead, if applicable)	MO	Masonry Opening
BTWN	Between	MTL	Metal
BLDG	Building	MTD	Mounted
BLKG	Blocking	MTG	Mounting
BLT	Bolt	MW	Microwave Oven
BM	Beam	N	North
BOT	Bottom	NIC	Not In Contract
BRG	Bearing	NO	Number
BSMT	Basement	NTS	Not to Scale
CAB	Cabinet	OA	Overall
CER	Ceramic	OD	Outside Diameter
CH	Ceiling Height	OC	On Center
CJ	Control Joint	OFCI	Owner Furnished, Contractor Installed
CLG	Ceiling	OFF	Office
CLAD	Cladding	OH	Opposite Hand
CLO	Closet	OPNG	Opening
CLR	Clear	OPP	Opposite
CMU	Concrete Masonry Unit	PART	Partition
COL	Column	PERF	Perforated
CONC	Concrete	PL	Plate/Property Line
CONST	Construction	PLAM	Plastic Laminate
CONT	Continuous	PLEX	Plexiglass
CORR	Corrugated	PLYWD	Plywood
CPT	Carpet	POLY	Polyethylene
CS	Cast Stone	PR	Pair
CSK	Countersink	PSF	Pound Per Square Foot
CSMT	Casement	PSI	Pound Per Square Inch
CT	Ceramic Tile	PT	Pressure Treated
CTR	Center/Counter	PTD	Painted
CTRD	Centered	PVC	Polyvinyl Chloride
CW	Cold Water	QT	Quarry Tile
DBL	Double	QTY	Quantity
DEMO	Demolish, Demolition	R	Riser(s)
DET	Detail	RO	Rough Opening
DF	Drinking Fountain	Rad	Radius
DH	Double Hung	RCP	Reflected Ceiling Plan
DIA	Diameter	RECPT	Receptacle
DIM	Dimension	REF	Refrigerator
DN	Down	REG	Register
DR	Door	REINF	Reinforcing
DS	Downspout	REQD	Required
DW	Dishwasher	RESIL	Resilient
DWG	Drawing	REV	Revision
E	East	RL	Rain Leader
EA	Each	RM	Room
EJ	Expansion Joint	RTU	Roof Top Unit
EL	Elevation	S	South
ELEC	Electric(al)	S4S	Surface Four Sides
ELEV	Elevator	SC	Solid Core
EMER	Emergency	SCHED	Schedule(d)
EQ	Equal	SECT	Section
EQUIP	Equipment	SHT	Sheet
EWC	Electric Water Cooler	SIM	Similar
EXIST	Existing	SF	Square Feet
EXH	Exhaust	SPEC	Specification
EXP	Expansion, Exposed	SQ	Square
EXT	Exterior	SS	Stainless Steel
FA	Fire Alarm	STD	Standard
FBO	Furnished by Owner	STL	Steel
FD	Floor Drain	STOR	Storage
FND	Foundation	STRUCT	Structure
FEC	Fire Extinguisher Cabinet	SURF	Surface
FF	Finish Floor	SUSP	Suspend
FGL	Fiberglass	T	Tread(s)
FIN	Finish	T&G	Tongue and Groove
FLASH	Flashing	TBD	To Be Determined
FL	Floor	TEL	Telephone
FLUOR	Fluorescent	TEMP	Temperature
FOM	Face of Masonry	THK	Thick
FOS	Face of Structure (or Face of Stud, where applicable)	TOIL	Toilet
		TO_	Top of (____)
FRP	Fiberglass reinforced plastic	TYP	Typical
FRT	Fire Retardant Treated	UL	Underwriters Laboratories, Inc.
FRMG	Framing	UNFIN	Unfinished
FT	Feet	UNO	Unless Noted Otherwise
FTG	Footing	U/S	Underside
FURN	Furniture/Furnish	UTIL	Utility
FURR	Furring	VB	Vapor Barrier
FVC	Fire Valve Cabinet	VCT	Vinyl Composition Tile
GA	Gauge	VENT	Ventilate(or)
GALV	Galvanized	VERT	Vertical
GC	General Contractor	VEST	Vestibule
GFI	Ground Fault Interrupter	VIF	Verify In Field
GL	Glass	VNR	Veneer
GWB	Gypsum Wall Board	W	West
GYP	Gypsum	WC	Water Closet
HB	Hose Bib	WD	Wood
HC	Hollow Core/Handicappd	WF	Wide Flange
HD	Head	WH	Water Heater
HDWE	Hardware	WP	Waterproofing
HM	Hollow Metal	W/	With
HORIZ	Horizontal	W/O	Without
HT	Height	WT	Weight
HTR	Heater	WWM	Welded Mire Mesh
HVAC	Heating/Ventilation/Air-Conditioning		
HW	Hot Water		
IG	Isolated Ground		
IN	Inch		

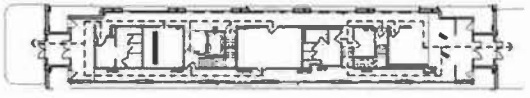
SYMBOLS LEGEND



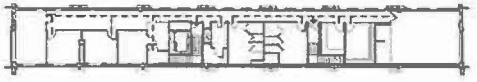
SITE LOCATION

EGRESS PLANS

LEVEL 1



LEVEL 2



PROJECT DIRECTORY

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1250 U ST , NW, THIRD FLOOR
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PROJECT INFORMATION

ADDRESS: 1001 Half Street, SW
Washington, DC 20024

LOT: 0010
SQUARE: 0647

DESCRIPTION: THE TWO-STORY CUSTOMER SERVICE CENTER (ROUGHLY 6,000 SF) WILL RECEIVE A LEVEL 2 RENOVATION TO THE INTERIOR SPACES.

LOT SIZE: 71,716 SF

DESCRIPTION: TWO LEVEL OFFICE, WITH GARAGE SERVICE BAYS ON LEVEL 1

FLOOR AREA:

FLOOR LEVEL 1 CUSTOMER SERVICE CENTER	3,179 SF
FLOOR LEVEL 1 SERVICE BAYS	26,688 SF (NIC)
FLOOR LEVEL 2 CUSTOMER SERVICE CENTER	2,615 SF

ZONING - DCMR TITLE 11

ZONING: C-3-A
USES: COMMERCIAL
HISTORIC DISTRICT: NONE

	PERMITTED	EXISTING	PROPOSED
HEIGHT	65'	35'-4"	NO CHANGE
STORIES	NO LIMIT	2	NO CHANGE
LOT OCC	75%	42%	NO CHANGE
FAR	2.5	0.45	NO CHANGE
SIDE YARD	NO REQUIRED		
REAR YARD	12'	67'	NO CHANGE

BUILDING CODE

(DCMR 12 + 13, NFPA 13, NEC 2005, AND THE ICC'S IBC 2006, IECC 2006, IFC 2006, IMC 2006, IEBC 2006, IPC 2006)

PROPOSED USE:	B - BUSINESS (IBC 305) F-1 FACTORY (IBC 303)
CONSTRUCTION TYPE:	IIB (IBC TABLE 601)
HT LIMIT:	2 STORIES (IBC TABLE 503)
AREA LIMIT:	14,500 PER FLOOR (IBC TABLE 503) + SPRINKLER BONUSES
SPRINKLERS:	YES
ADA:	REQUIRED
# EXITS	2 AT FIRST LEVEL, 2 AT SECOND LEVEL
ELEVATOR:	REQUIRED - EXISTING TO REMAIN
REQUIRED FIRE RATING:	
EXTERIOR WALLS:	2 HR (IBC TABLE 602) SEPERATION BETWEEN CUSTOMER SERVICE CENTER AND SERVICE BAYS
FLOOR:	0 HR (IBC TABLE 601)
ROOF:	0 HR (IBC TABLE 601)
CORRIDOR:	0 HR (IBC TABLE 1017.1)
VERTICAL EGRESS:	0 HR (IBC 1020.1, EX 9)
SHAFTS:	0 HR (IBC 707.2.7)
FIRE WALLS:	2 HR (IBC TABLE 602, TABLE 705.4)

GREEN BUILDING

(DC GREEN BUILDING ACT, DC GREEN CONSTRUCTION CODE, IECC)

GREEN BUILDING ACT NOT REQUIRED
PROPERTY VALUE = $10,000, 000
RENOVATION COST = $990,000

GREEN CONSTRUCTION CODE NOT REQUIRED
SCOPE OF WORK IS LEVEL 2 ALTERATION , LESS THAN 10,000 SF

IECC REQUIRED

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PERMIT SET

REVISIONS

DISTRICT OF COLUMBIA
RICHARD SCHNEIDER
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22 JUNE 2015
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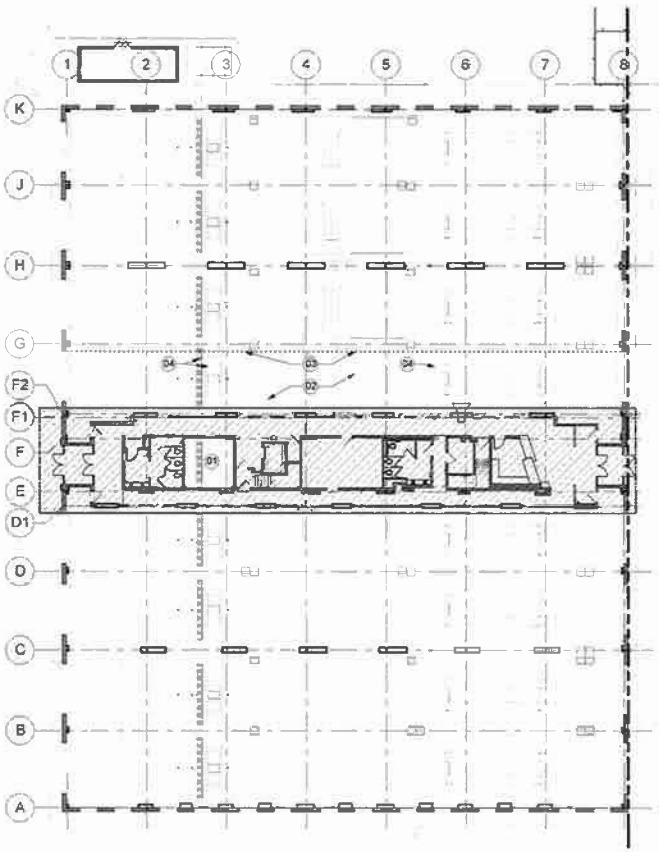
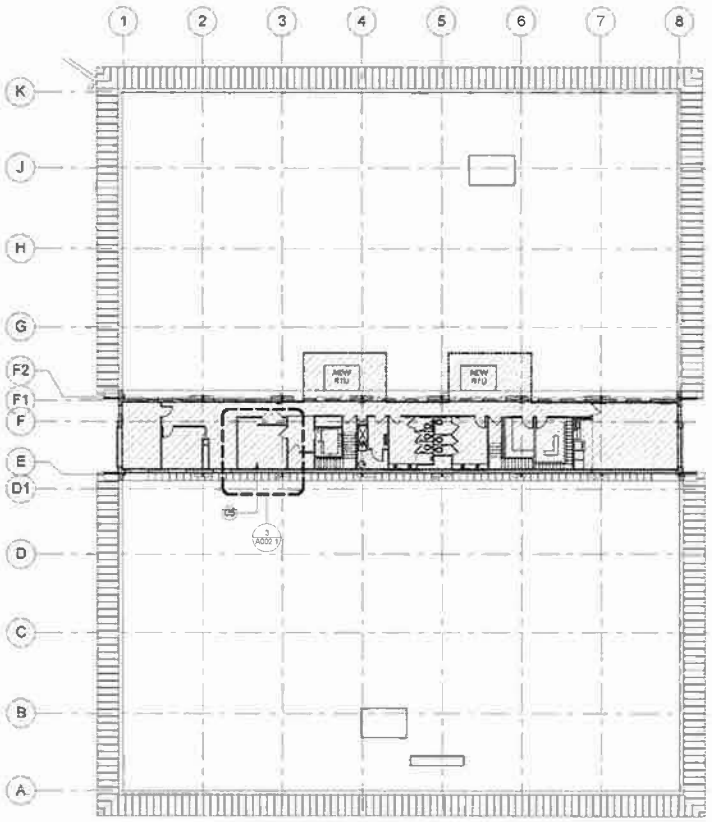
PROJECT INFO
A001.1



1 SCOPE OF WORK - FIRST FLOOR
1/16" = 1'-0"

HALF STREET S.W.



2 SCOPE OF WORK - SECOND FLOOR + ROOF
1/16" = 1'-0"

SCOPE OF WORK LEGEND

LIMIT OF PHASE 1 WORK
CONTRACTOR WILL HAVE A MAXIMUM OF 5 WEEKS TO COMPLETE THE INTERIOR RENOVATION

01 EMMISSIONS ANALYZER STORAGE ROOM TO BE COMPLETED IN SEPERATE PHASE

02 INSPECTION LANE WILL BE DEACTIVATED AND LANE WILL BE USED FOR CUSTOMER CIRCULATION DURING RENOVATION

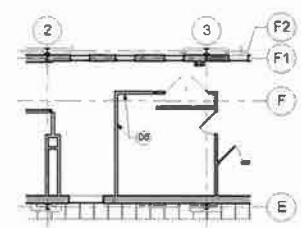
03 GC TO PROVIDE TEMPORARY BARRIER TO PREVENT CUSTOMERS FROM CIRCULATING INTO ACTIVE INSPECTION LANES

04 GC WILL COVER EQUIPMENT TO PROTECT FROM DAMAGE AND PROVIDE A SAFE AND ACCESSIBLE PATH FOR CUSTOMERS

05 CURRENT TELEPHONE AND TECHNOLOGY WILL NEED TO REMAIN OPERATIONAL, REFER TO ENLARGED PLANS OF AREA FOR PROPOSED PHASING TO MAINTAIN OPERATIONS

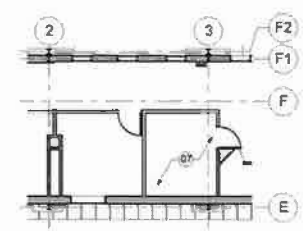
06 INSTALL TEMPORARY PARTITIONS TO ENCLOSE EXISTING EQUIPMENT AND MAINTAIN OPERATIONS

07 FINAL ROOM LAYOUT PER PLANS ON A102.1 TO BE COMPLETED FOLLOWING EQUIPMENT SWITCHOVER



GENERAL NOTE
ONCE THE CONTRACTOR IS PREPARED FOR THE EQUIPMENT SWITCH-OVER IT WILL HAVE TO OCCUR ON SATURDAY STARTING AT 2P AND COMPLETED BY TUESDAY AT 8A TO MAINTAIN CONTINUOUS OPERATIONS

3 TEMPORARY ROOM PLAN
1/8" = 1'-0"



4 COMPLETED TECHNOLOGY ROOM
1/8" = 1'-0"

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REVISIONS

DISTRICT OF COLUMBIA
RAYMOND SCHEIDER
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REGISTERED
ARCHITECT

22 JUNE 2015

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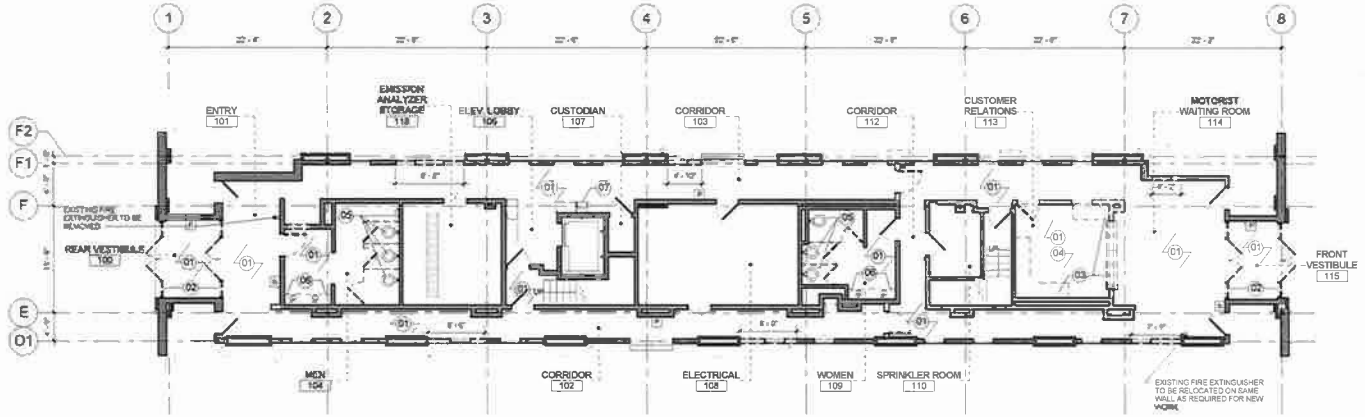
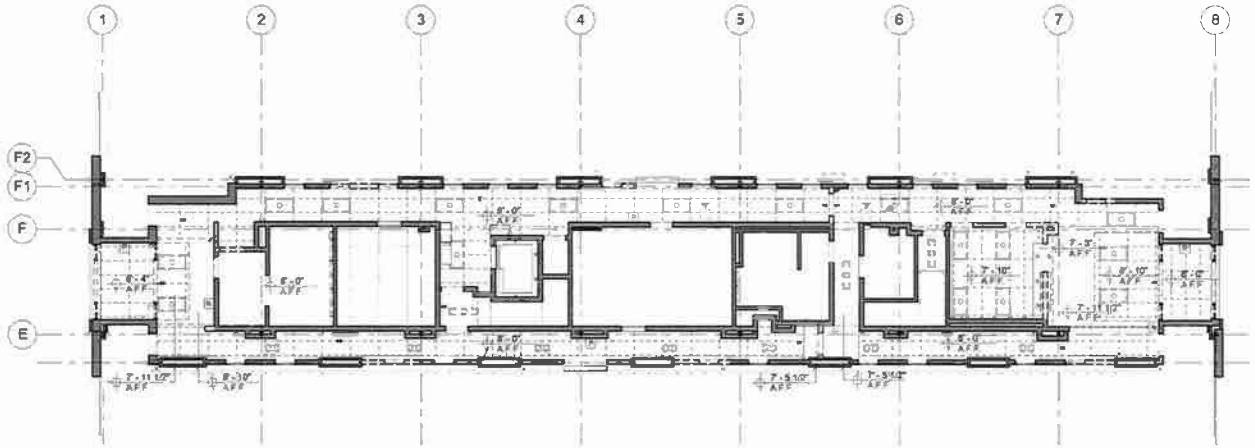
SCOPE OF WORK

A002.1



1 DEMOLITION PLAN - LEVEL 1 CUSTOMER SERVICE CENTER

1/8" = 1'-0"



2 DEMOLITION REFLECTED CEILING PLAN - LEVEL 1 CUSTOMER SERVICE CENTER

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION

CONTRACTOR IS RESPONSIBLE FOR ALL SHORING OF TEMPORARY WALL, FLOOR AND ROOF SUPPORTS THROUGHTOUT PROJECT

COMPLY WITH APPLICABLE LOCAL AND FEDERAL REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION

ERECT AND MAINTAIN DUSTPROOF PARTITIONS TO PREVENT THE SPREAD OF DUST, FUMES ETC.

PROTECT ALL EXISTING INTERIOR SURFACES TO REMAIN. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED. RESTORE AFFECTED AREAS AT NO COST TO OWNER

COORDINATE ALL DEMOLITION WITH ALL DISCIPLINES AND SUB-CONTRACTORS

G.C. TO PROTECT ANY DEVICES IF REQUIRED TO STAY IN PLACE DURING CONSTRUCTION

G.C. TO PREP ALL EXISTING WALLS TO RECIEVE NEW WALL FINISHES. ANY DAMAGED SECTIONS EXISTING WALLS TO BE SPACKLED, SANDED SMOOTH AND PRIMED PRIOR TO FINAL FINISH APPLICATION

G.C. TO REMOVE ALL EXISTING DOORS AND FRAMES NOTED FOR DEMOLITION AND PLACE INTO STORAGE FOR PROTECTION DURING CONSTRUCTION. ALL DOORS AND FRAMES TO BE REPAIRED AND REFINISHED AS REQUIRED, FOR REUSE IN NEW LAYOUT (IF APPLICABLE)

G.C. TO REPLACE ALL EXISTING OUTLETS, SWITCHES, TELECOM PORTS, COVERPLATES AND ETC. TO REMAIN WITH NEW TO MATCH NEW DEVICE SPECIFICATIONS, AS REQ'D

G.C. TO REMOVE ALL NOTED POWER/COMMUNICATION, THERMOSTATS AND OTHER WALL MOUNTED DEVICES AND PULL ALL WIRES BACK TO SOURCE, U/O

ALL OTHER MATERIALS IN GOOD WORKING ORDER ARE TO BE REMOVED, SHALL BE SALVAGED OR REUSE BY CLIENT. CARE SHALL BE TAKEN IN REMOVING ITEMS. ITEMS TO BE REUSED BY OWNER SHALL BE STORED IN A LOCATION APPROVED BY OWNER

DEMOLITION KEYNOTES

(01) DEMOLISH FLOORING DOWN TO STRUCTURE AND ANY WALL BASE

(02) DEMOLISH STONE/MORTAR SYSTEM AND ALL RELATED HARDWARE

(03) DEMOLISH CASEWORK AND ALL MOUNTING HARDWARE

(04) REMOVE ALL ABANDONED AND DISUSED EQUIPMENT, AND ALL WIRING ASSOCIATED WITH THAT EQUIPMENT

(05) DEMOLISH WATER CLOSET, URINAL AND TOILET PARTITIONS

(06) DEMOLISH LAVATORIES AND COUNTER

(07) DEMOLISH EXISTING WATER FOUNTAIN - SEE PLUMBING DRAWINGS FOR MORE DETAILS

DEMOLITION LEGEND

PARTITION / WALL TO BE REMOVED

DOOR, FRAME AND ALL HARDWARE TO BE REMOVED

PARTITION / WALL TO REMAIN

DOOR, FRAME AND ALL HARDWARE TO BE REMOVED

DEMOLITION RCP LEGEND

PTD GWB TO BE REMOVED

EXIST. PTD GWB TO REMAIN

ACOUSTIC CEILING TILE TO BE REMOVED

EXIST. ACOUSTIC CEILING TILE TO REMAIN

LIGHT FIXTURE TO BE REMOVED

LIGHT FIXTURE TO BE REMOVED

LIGHT FIXTURE TO BE REMOVED

LIGHT FIXTURE TO BE REMOVED

EXIT SIGN WALL-MOUNTED TO BE REMOVED

EXIT SIGN CEILING-MOUNTED TO BE REMOVED

EXISTING EXIT SIGN WALL-MOUNTED TO REMAIN

EXISTING EXIT SIGN CEILING-MOUNTED TO REMAIN

FIRE ALARM TO BE REMOVED

KEY PLAN

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REVISIONS

22 JUNE 2015
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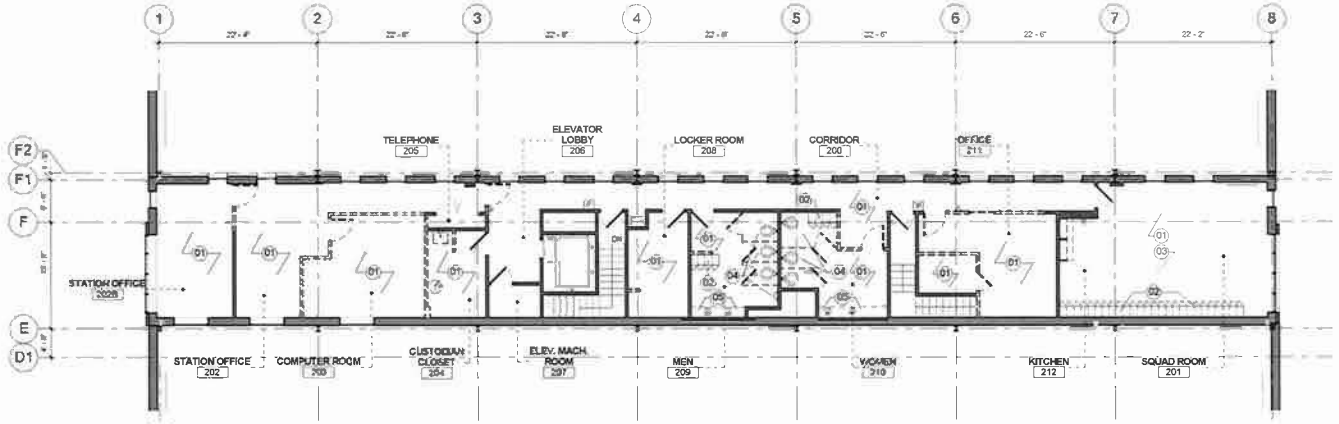
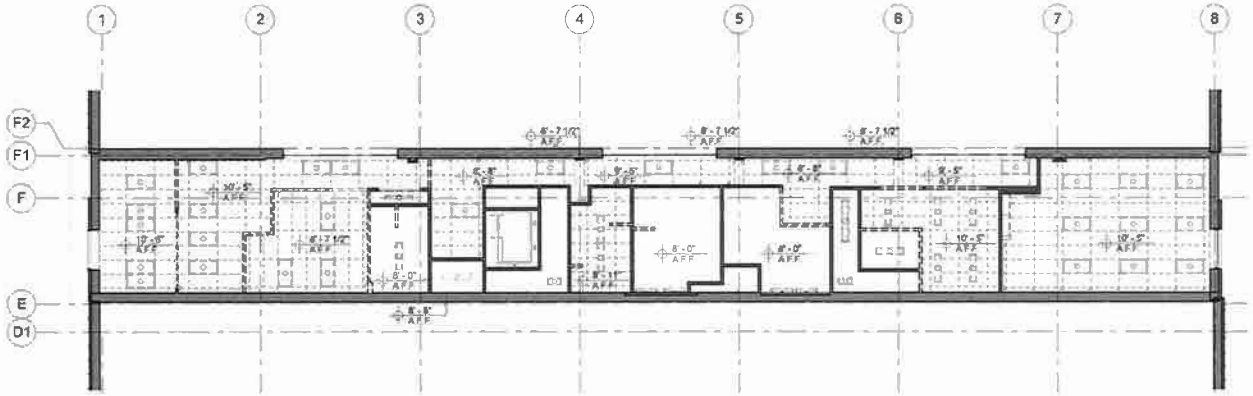
DEMOLITION CUSTOMER SERVICE CTR LEVEL 1

D101.1



1 DEMOLITION PLAN - LEVEL 2 CUST SERV CTR
1/8" = 1'-0"



2 DEMOLITION REFLECTED CEILING PLAN - LEVEL 2 CUSTOMER SERVICE CENTER
1/8" = 1'-0"

DEMOLITION NOTES

COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION

CONTRACTOR IS RESPONSIBLE FOR ALL SHORING OF TEMPORARY WALL, FLOOR AND ROOF SUPPORTS THROUGHTOUT PROJECT

REMOVE ABANDONED ELECTRICAL, TELEPHONE, DATA, AND A/V CABLING AND DEVICES UNO

COMPLY WITH APPLICABLE LOCAL AND FEDERAL REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION

ERECT AND MAINTAIN DUSTPROOF PARTITIONS TO PREVENT THE SPREAD OF DUST, FUMES, ETC

PROTECT ALL EXISTING INTERIOR SURFACES TO REMAIN. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE AFFECTED AREAS AT NO COST TO OWNER

COORDINATE ALL DEMOLITION WITH ALL DISCIPLINES AND SUB CONTRACTORS

G.C. TO PROTECT ANY DEVICES IF REQUIRED TO STAY IN PLACE DURING CONSTRUCTION

G.C. TO PREP ALL EXISTING WALLS TO RECIEVE NEW WALL FINISHES. ANY DAMAGED SECTIONS EXISTING WALLS TO BE SPACKLED, SANDED SMOOTH AND PRIMED PRIOR TO FINAL FINISH APPLICATION

G.C. TO REMOVE ALL EXISTING DOORS AND FRAMES NOTED FOR DEMOLITION AND PLACE INTO STORAGE FOR PROTECTION DURING CONSTRUCTION. ALL DOORS AND FRAMES TO BE REPAIRED AND REFINISHED, AS REQUIRED, FOR REUSE IN NEW LAYOUT (IF APPLICABLE)

G.C. TO REPLACE ALL EXISTING OUTLETS, SWITCHES, TELECOM PORTS, COVERPLATES AND ETC TO REMAIN WITH NEW TO MATCH NEW DEVICE SPECIFICATIONS, AS REQ'D

G.C. TO REMOVE ALL NOTED POWER/COMMUNICATION, THERMOSTATS AND OTHER WALL MOUNTED DEVICES AND PULL ALL WIRES BACK TO SOURCE, UNO

ALL OTHER MATERIALS IN GOOD WORKING ORDER ARE TO BE REMOVED, SHALL BE SALVAGED OR REUSE BY CLIENT. CARE SHALL BE TAKEN IN REMOVING ITEMS. ITEMS TO BE REUSED BY OWNER SHALL BE STORED IN A LOCATION APPROVED BY OWNER

REMOVE EXISTING INSULATION ABOVE CEILING TO BE DEMOLISHED

DEMOLITION KEYNOTES

(01) DEMOLISH FLOORING DOWN TO STRUCTURE AND ANY WALL BASE

(02) DEMOLISH EXISTING LOCKERS

(03) REMOVE ALL TABLES, ICE STORAGE AND FURNITURE. COORDINATE STORAGE OR DISPOSAL WITH STATION MANAGER

(04) DEMOLISH WATER CLOSETS, URINAL AND TOILET PARTITIONS

(05) DEMOLISH LAVATORIES AND COUNTER

DEMOLITION LEGEND

PARTITION / WALL TO BE REMOVED

DOOR, FRAME AND ALL HARDWARE TO BE REMOVED

PARTITION / WALL TO REMAIN

DOOR, FRAME AND ALL HARDWARE TO BE REMOVED

DEMOLITION RCP LEGEND

PTD GWB TO BE REMOVED

EXIST. PTD GWB TO REMAIN

ACOUSTIC CEILING TILE TO BE REMOVED

EXIST. ACOUSTIC CEILING TILE TO REMAIN

LIGHT FIXTURE TO BE REMOVED

LIGHT FIXTURE TO BE REMOVED

LIGHT FIXTURE TO BE REMOVED

LIGHT FIXTURE TO BE REMOVED

EXIT SIGN, WALL-MOUNTED TO BE REMOVED

EXIT SIGN, CEILING-MOUNTED TO BE REMOVED

EXISTING EXIT SIGN, WALL-MOUNTED TO REMAIN

EXISTING EXIT SIGN, CEILING-MOUNTED TO REMAIN

FIRE ALARM TO BE REMOVED

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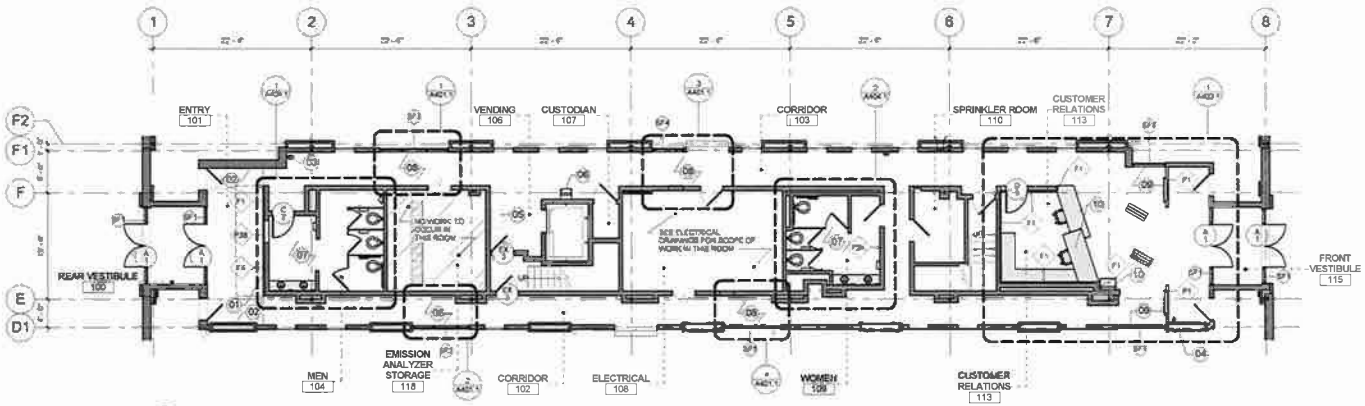
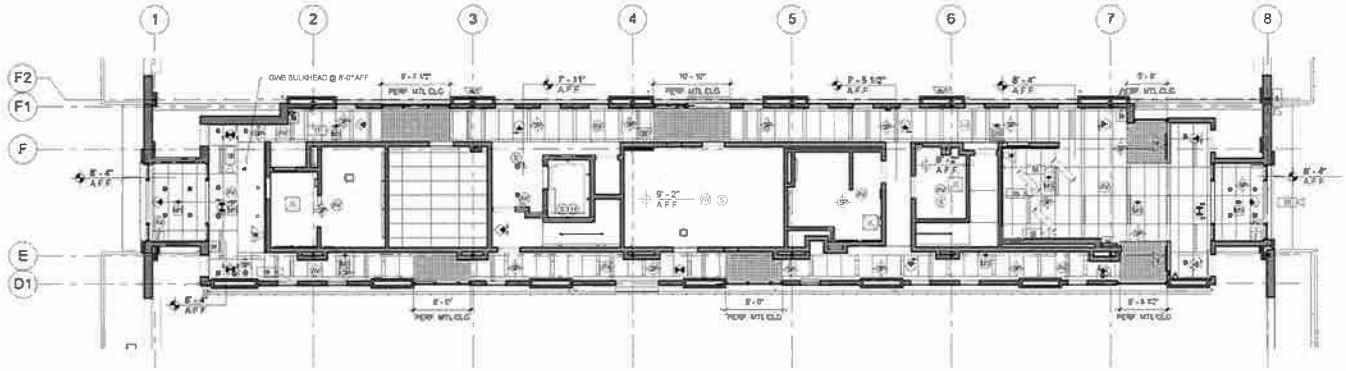
DEMOLITION CUSTOMER SERVICE CTR LEVEL 2

D102.1



1 FLOOR PLAN - LEVEL 1 CUSTOMER SERVICE CENTER

1/8" = 1'-0"



2 REFLECTED CEILING PLAN - LEVEL 1 CUSTOMER SERVICE CENTER

1/8" = 1'-0"

PLAN GENERAL NOTES

G.C. TO FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS

NEW WORK KEYNOTES

01 NEW ACCENT WALL WITH PAINTED GRAPHIC AND BULKHEAD ABOVE
02 NEW PAINTED DIRECTIONAL SIGNAGE
03 NEW FIRE EXTINGUISHER
04 EXISTING FIRE EXTINGUISHER TO BE RELOCATED AS REQUIRED
05 EXISTING VENDING MACHINE TO BE RELOCATED - G.C. TO COORDINATE STORAGE AND REINSTALLATION WITH OWNER
06 NEW ADA COMPLIANT WATER FOUNTAIN - SEE PLUMBING DRAWINGS FOR DETAILS
07 NEW WORK IN BATHROOMS TO INCLUDE NEW FIXTURES, PARTITIONS AND FINISHES
08 POSITIONS TO RECEIVE NEW GLAZING WITH GRAPHICS, INFORMATIONAL SIGNAGE + FINISHES
09 POSITIONS TO RECEIVE NEW GLAZING WITH GRAPHICS, INFORMATIONAL SIGNAGE, FINISHES AND WALL MOUNTED TV MONITORS
10 NEW BUILT-IN CUSTOMER RELATIONS DESK
11 CUSTOMER PRINTER KIOSK STATION

RCP GENERAL NOTES

UNO FIRST FLOOR TYPICAL CEILING HEIGHT IS 8'
UNO SECOND FLOOR TYPICAL CEILING HEIGHT IS 10'-5"
INSTALL NEW INSULATION ABOVE ALL NEW CEILING

RCP LEGEND

SEE A141.1 FOR FINISH INFORMATION

- EXISTING CEILING TO REMAIN
- NEW PAINTED GWB
- 2X2 ACT
- 2X4 ACT
- PERFORATED METAL CEILING WITH LIGHTING ABOVE - SEE ELECTRICAL DRAWINGS
- RECESSED DOWNLIGHT
- WALL WASHER
- RECESSED LINEAR
- RECESSED 2X2
- SURFACE MOUNTED
- WALL MOUNTED LINEAR @ STAIRWELLS
- COVE LIGHTING @ BATHROOMS
- LINEAR PENDANT
- LINEAR PENDANT
- LINEAR SLOT DIFFUSER - SEE MECHANICAL DRAWINGS
- 2X2 DIFFUSER - SEE MECHANICAL DRAWINGS
- SPEAKER
- EXIT SIGN CEILING MOUNTED
- EXIT SIGN WALL MOUNTED
- MOTION SENSOR
- FIRE ALARM CEILING MOUNTED
- FIRE ALARM CEILING MOUNTED
- MOTION DETECTOR
- WIDE ANGLE MOTION DETECTOR
- FIRE ALARM PULL STATION
- SMOKE DETECTOR
- HEAT BEAM DETECTOR
- CAMERA

KEY PLAN

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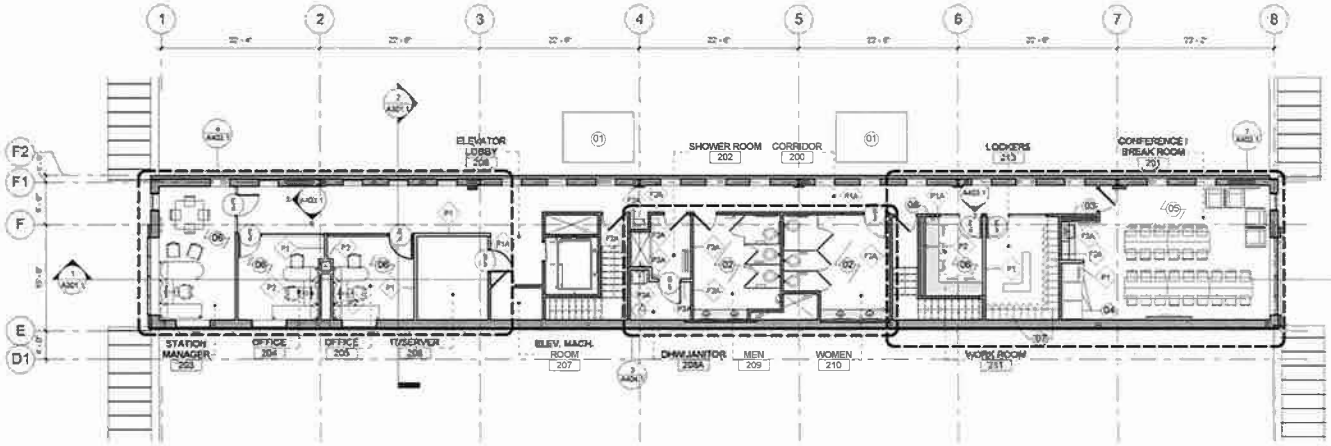
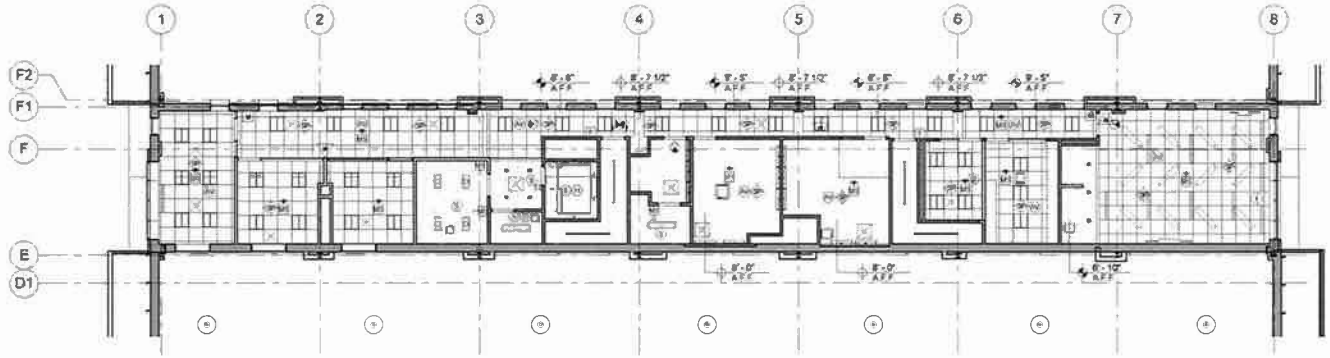
CUSTOMER SERVICE CTR LEVEL 1

A101.1



1 FLOOR PLAN - LEVEL 2 CUSTOMER SERVICE CENTER
1/8" = 1'-0"



2 REFLECTED CEILING PLAN - LEVEL 2 CUSTOMER SERVICE CENTER
1/8" = 1'-0"

RCP GENERAL NOTES

- UNO FIRST FLOOR TYPICAL CEILING HEIGHT IS 9'
- UNO SECOND FLOOR TYPICAL CEILING HEIGHT IS 10'-5"
- INSTALL NEW INSULATION ABOVE ALL NEW CEILING

CUSTOMER SERVICE KEY NOTES

01. PROVIDE NEW SUPPORTS + VERIFY EQUIPMENT CAN BE SUPPORTED BY EXISTING STRUCTURE. PROVIDE STAMPED + SIGNED DRAWINGS + CALCULATIONS FOR L & I APPROVAL. PATCH + REPAIR ROOF AS REQUIRED
02. NEW WORK IN BATHROOMS TO INCLUDE NEW FIXTURES, PARTITIONS AND FINISHES
03. NEW CASEWORK AND SINK
04. NEW REFRIGERATOR AND ICE MACHINE
05. NEW WORK @ CONFERENCE ROOM TO INCLUDE NEW FINISHES INCLUDING WAINSCOT, LIGHT FIXTURES + FURNITURE
06. NEW WORK TO INCLUDE NEW FINISHES, CEILING, LIGHT FIXTURES + FURNITURE
07. NEW DOUBLE STACKED LOCKERS, 40 TOTAL. PAINTED GWB BULKHEAD ABOVE PROVIDE BREAKMETAL INFILL AT CORNERS
08. NEW BUILT IN CASEWORK

RCP LEGEND

SEE A401.1 FOR FINISH INFORMATION

- EXISTING CEILING TO REMAIN
- NEW PAINTED GWB
- 2X2 ACT
- 2X4 ACT
- PERFORATED METAL CEILING WITH LIGHTING ABOVE - SEE ELECTRICAL DRAWINGS
- RECESSED DOWNLIGHT
- WALL WASHER
- RECESSED LINEAR
- RECESSED 2X2
- SURFACE MOUNTED
- WALL MOUNTED LINEAR @ STAIRWELLS
- COVE LIGHTING @ BATHROOMS
- LINEAR PENDANT
- LINEAR PENDANT
- LINEAR SLOT DIFFUSER - SEE MECHANICAL DRAWINGS
- 2X2 DIFFUSER - SEE MECHANICAL DRAWINGS
- SPEAKER
- EXIT SIGN CEILING MOUNTED
- EXIT SIGN WALL MOUNTED
- MOTION SENSOR
- FIRE ALARM CEILING MOUNTED
- FIRE ALARM CEILING MOUNTED
- MOTION DETECTOR
- WIDE ANGLE MOTION DETECTOR
- FIRE ALARM PULL STATION
- SMOKE DETECTOR
- HEAT BEAM DETECTOR
- CAMERA

KEY PLAN

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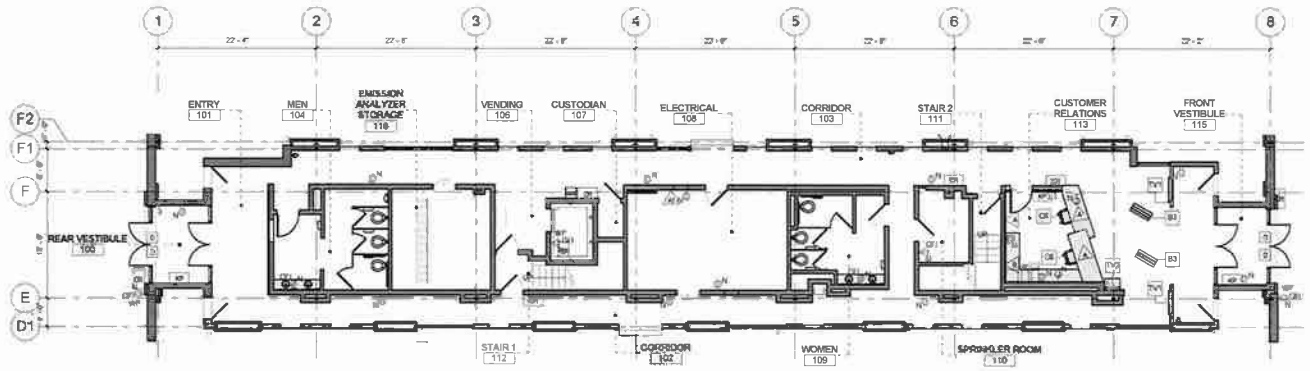
CUSTOMER SERVICE CTR LEVEL 2

A102.1

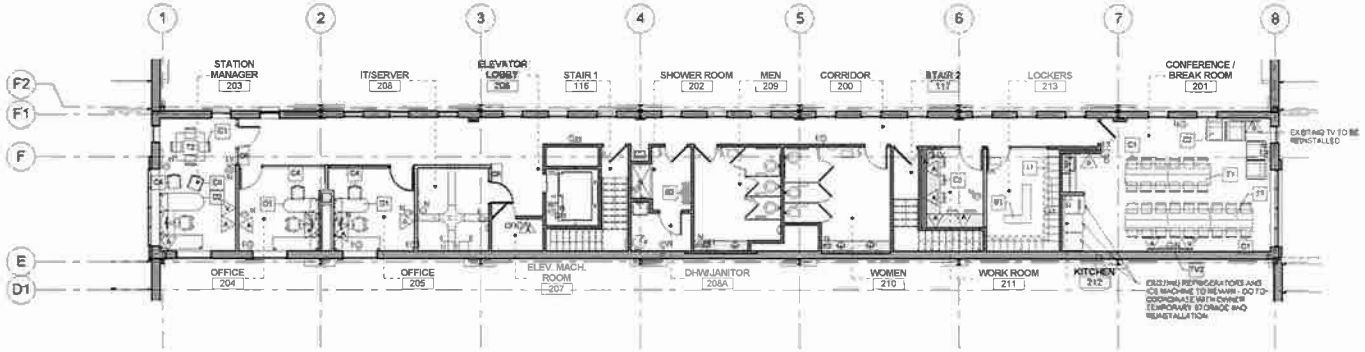


1 FURNITURE PLAN - LEVEL 1 CUSTOMER SERVICE CENTER

1/8" = 1'-0"

FF&E SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	QUANTITY	COMMENTS
B1	BENCH		1	
B2	BENCH		1	
B3	BENCH		2	
C1	STACKABLE CHAIR		38	
C2	LOUNGE CHAIR		4	
C3	CHAIR, TASK		3	
C4	CHAIR, GUEST		4	
C5	CONFERENCE CHAIR		1	
C6	FRONT DESK CHAIR		2	
D1	MODULAR WORX WORKSTATION WITH OVERHEADS, DESK CHAIR + KEYBOARD TRAY		2	
D2	MODULAR WORX WORKSTATION WITH OVERHEADS, DESK CHAIR + KEYBOARD TRAY		1	
T1	TABLE		10	
T2	TABLE		1	
TV1	[42"] W/ W WALL MOUNTED BRACKET		2	PROVIDE BLOCKING @ WALL FOR MOUNTING BRACKET
TV2	[64"] W/ WALL MOUNTED BRACKET		1	PROVIDE BLOCKING @ WALL FOR MOUNTING BRACKET
TV3	[24"] W/WALL MOUNTED BRACKE		1	PROVIDE BLOCKING @ WALL FOR MOUNTING BRACKET
L1	DOUBLE STACKED LOCKERS		20	PROVIDE BREAK METAL ENCLOSURE AT CORNERS



2 FURNITURE PLAN - LEVEL 2 CUSTOMER SERVICE CENTER

1/8" = 1'-0"

POWER AND DATA SYMBOLS

- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- DATA JACK
- DATA JACK + COAX
- PHONE JACK
- CR CARD READER
- D DOOR CONTACT
- KP KEY PAD
- LV LOW VOLTAGE SWITCH
- L3 3 WAY SWITCH
- D DIMMER
- HEIGHT ABOVE FINISH FLOOR
- SIGNAGE/ID
- MOTION SENSOR
- ISOLATED GROUND
- GFCI GROUND FAULT INTERRUPT
- WP WEATHER PROOF
- N NEW
- E EXISTING TO REMAIN
- R EXISTING RELOCATED

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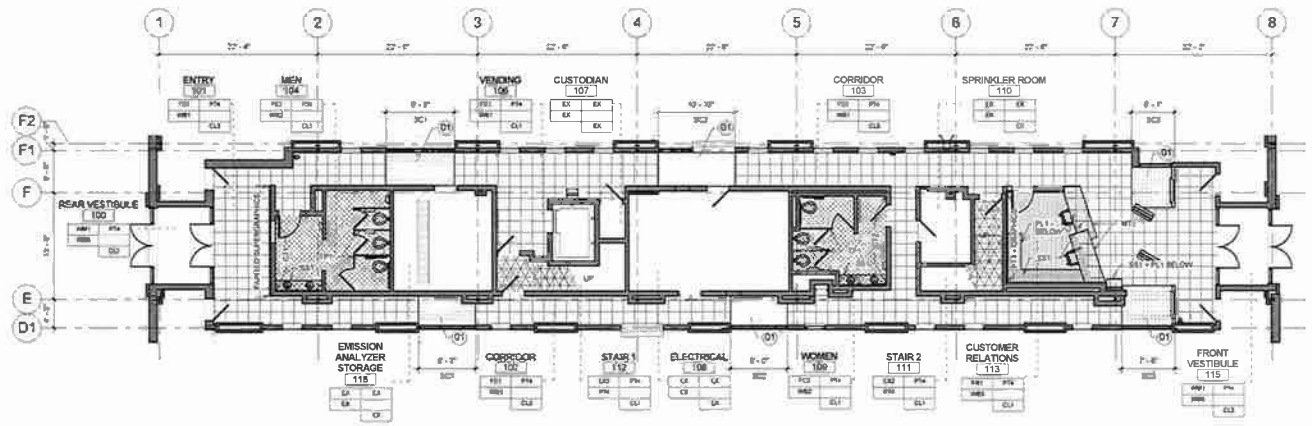
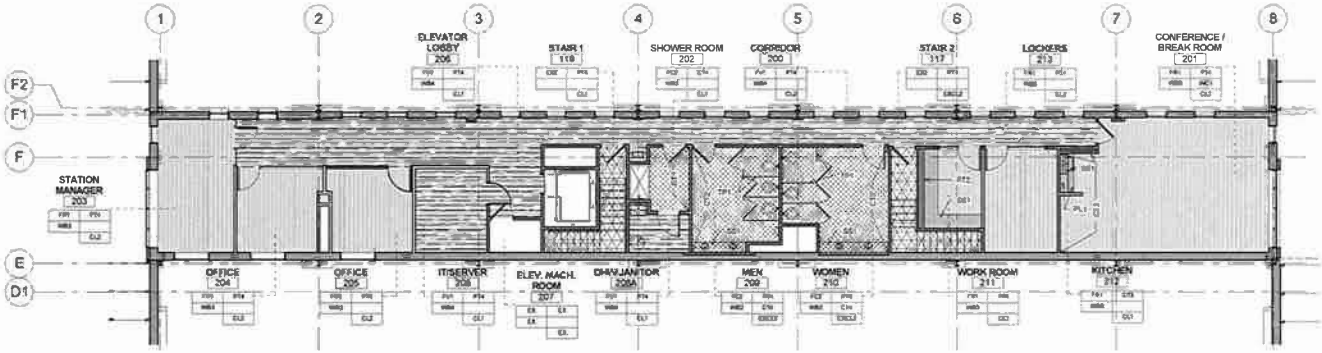
FURNITURE + TELE/DATA/POWER PLANS

A131.1



1 FINISH PLAN - LEVEL 1 CUSTOMER SERVICE CENTER
1/8" = 1'-0"



2 FINISH PLAN - LEVEL 2 CUSTOMER SERVICE CENTER
1/8" = 1'-0"

FINISH PLAN GENERAL NOTES

PAINT BULKHEADS + ACCESS PANELS PT1 UNO

PAINT ALL GWB CEILINGS PT4 UNO

ALL EXISTING DOORS AND FRAMES TO BE PAINTED PT4 UNO

ADA COMPLIANT THRESHOLDS @ RESTROOMS + PRIMARY ENTRANCES

FINISH PLAN KEYNOTES

(01) SUPER-GRAPHICS + COLOR CODED PAINT APPLIED TO WALLS. SEE FINISHES BOOKLET

FINISH SCHEDULE

FLOOR FINISH

FC1	CLAY TILE 24" X 24" TILE	MFR RAKO STYLE CLAY COLOR BLACK, MATT	SC1	STAINED CONCRETE	STYLE EPOXY COATING COLOR COLOR 1 - RED
FC2	CERAMIC TILE 8" X 8" TILE	MFR RAKO STYLE TAURUS COLOR COLOR 195 BLACK	SC2	STAINED CONCRETE	STYLE EPOXY COATING COLOR COLOR 2 - YELLOW
FR1	RUBBER TILE TILE	MFR MONDO STYLE KAYAR COLOR K017 GREY	SC3	STAINED CONCRETE	STYLE EPOXY COATING COLOR COLOR 3 - GREEN
FV1	VINYL TILE TILE	MFR ALTRO STYLE DOLCE ESSENTIALS COLOR ASFADE2E6 GREY	PP1	EXISTING - PAINTED WITH EPOXY PAINT	
WM1	WALK-OFF MAT TILE	MFR MONDO STYLE HARMONI SMOOTH COLOR G3331 SAND	EX	EXISTING TO REMAIN	
	MILLWORK/CASEWORK				

BASE FINISH

WB1	WALL BASE	MFR RAKO STYLE CLAY, SKIRTING PLINTH COLOR BLACK, MATT
WB2	WALL BASE	MFR RAKO STYLE TAURUS COLOR COVE SKIRTING COLOR BLACK MATT
WB3	WALL BASE	MFR MONDO STYLE 4" BASE COLOR CUSTOM TO MATCH FT1
WB4	WALL BASE	MFR MONDO STYLE 4" BASE COLOR CUSTOM TO MATCH FT1
WB5	WALL BASE	MFR MONDO STYLE 4" BASE COLOR CUSTOM TO MATCH WB1

WALL FINISH

PT1	PAINT	MFR BENJAMIN MOORE STYLE SEMI-GLOSS COLOR RED - ARCHITECT TO SELECT FROM STANDARD LIST OF COLORS
PT2	PAINT	MFR BENJAMIN MOORE STYLE SEMI-GLOSS COLOR YELLOW - ARCHITECT TO SELECT FROM STANDARD LIST OF COLORS
PT3	PAINT	MFR BENJAMIN MOORE STYLE SEMI-GLOSS COLOR GREEN - ARCHITECT TO SELECT FROM STANDARD LIST OF COLORS
PT4	PAINT	MFR BENJAMIN MOORE STYLE SEMI-GLOSS COLOR GREY - ARCHITECT TO SELECT FROM STANDARD LIST OF COLORS
CT1	CERAMIC TILE 8" X 16" NOMINAL	MFR RAKO STYLE COLOR ONE COLOR RED, MATT
CT2	CERAMIC TILE 8" X 16" NOMINAL	MFR RAKO STYLE COLOR ONE COLOR DARK YELLOW MATT
CT3	CERAMIC TILE 8" X 16" NOMINAL	MFR RAKO STYLE COLOR ONE COLOR GREEN MATT

TBW FINISH (MAGNETIC WINDOW DOOR + TACK BOARD TBW UNO)

PT4	PAINT	MFR BENJAMIN MOORE STYLE SEMI-GLOSS COLOR GREY - ARCHITECT TO SELECT FROM STANDARD LIST OF COLORS
CT4	CERAMIC TILE	MFR RAKO STYLE COLOR ONE COLOR LIGHT GREY, MATT
WG1	TBD	

P LAM

PL1	LAMINATE	MFR WILSONART COLOR ARCHITECT TO SELECT FROM STANDARD STYLE AND COLORS

METAL

MT1	METAL	MFR CEILINGS PLUS STYLE WALLFORMS COLOR METAL - GRAU WITH PERFORATION

SOLID SURFACE

SS1	SOLID SURFACE	MFR WILSONART STYLE COLOR ARCHITECT TO SELECT FROM STANDARD STYLE AND COLORS

TOILET PARTITIONS

TP1		MFR TBD STYLE TBD COLOR STAINLESS STEEL

CEILING FINISH

CL1	PAINTED PT#	
CL2	ACOUSTIC CLG TILE 24" X 24"	MFR USG STYLE MARS CLIMAPLUS GRID FINELINE 15/16 DXFF
CL3	ACOUSTIC CLG TILE 24" X 48"	MFR USG STYLE MARS CLIMAPLUS GRID FINELINE 15/16 DXFF
CL4	PERFORATED METAL	MFR CEILINGSPLUS STYLE ILLUSIONS - METAL PERFORATED GRID ILLUSIONS SUSPENSION SYSTEM

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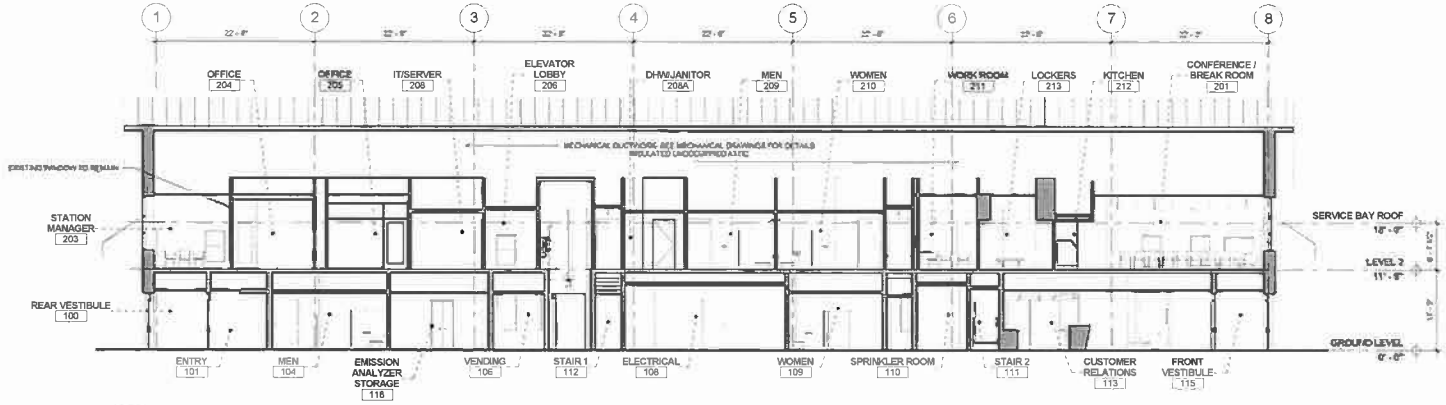
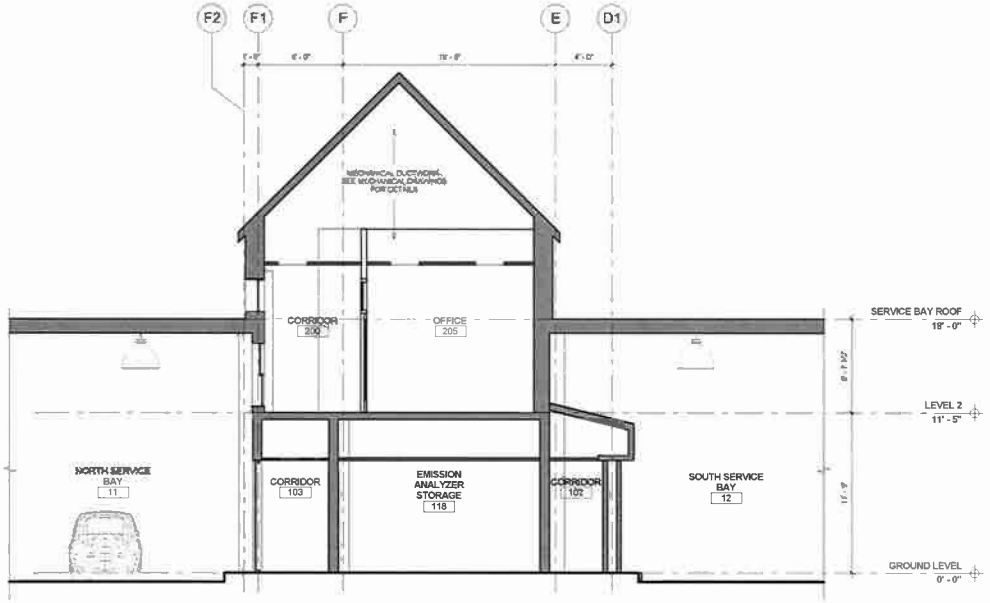
FINISH PLAN
CUSTOMER SERVICE CTR LEVEL 1-LEVEL 2

A141.1



1 EAST-WEST SECTION @ SERVICE CENTER



2 NORTH-SOUTH SECTION

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BUILDING SECTIONS

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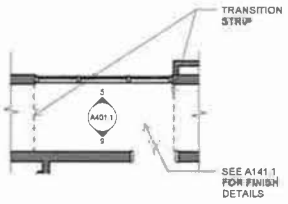
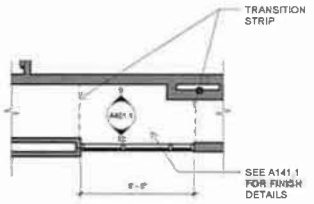
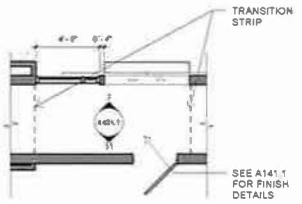


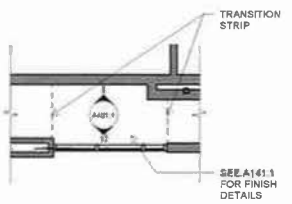
1 CORRIDOR 103 @ POSITION 1
1/4" = 1'-0"



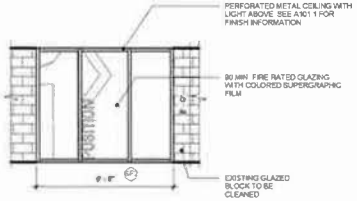
2 CORRIDOR 102 @ POSITION 1
1/4" = 1'-0"



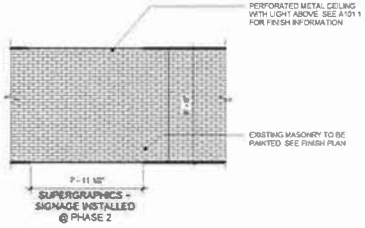
3 CORRIDOR 103 @ POSITION 2
1/4" = 1'-0"



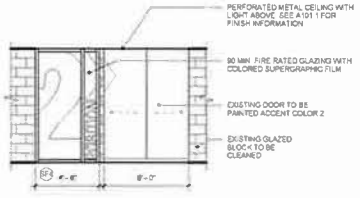
4 CORRIDOR 102 @ POSITION 2
1/4" = 1'-0"



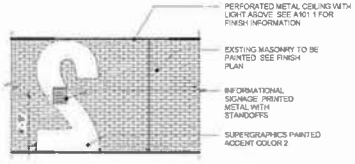
5 CORRIDOR 103 NORTH ELEVATION @ POSITION 1
1/4" = 1'-0"



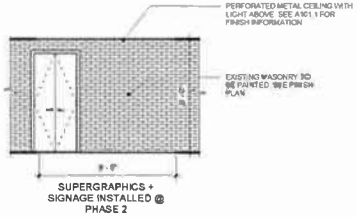
6 CORRIDOR 102 NORTH ELEVATION @ POSITION 1
1/4" = 1'-0"



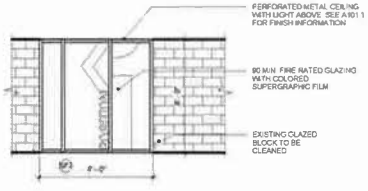
7 CORRIDOR 103 NORTH ELEVATION @ POSITION 2
1/4" = 1'-0"



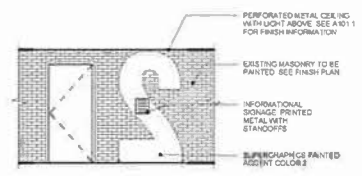
8 CORRIDOR 102 NORTH ELEVATION @ POSITION 2
1/4" = 1'-0"



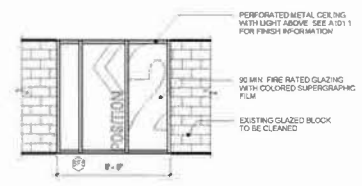
9 CORRIDOR 103 SOUTH ELEVATION @ POSITION 1
1/4" = 1'-0"



10 CORRIDOR 102 SOUTH ELEVATION @ POSITION 1
1/4" = 1'-0"



11 CORRIDOR 103 SOUTH ELEVATION @ POSITION 2
1/4" = 1'-0"



12 CORRIDOR 102 SOUTH ELEVATION @ POSITION 2
1/4" = 1'-0"

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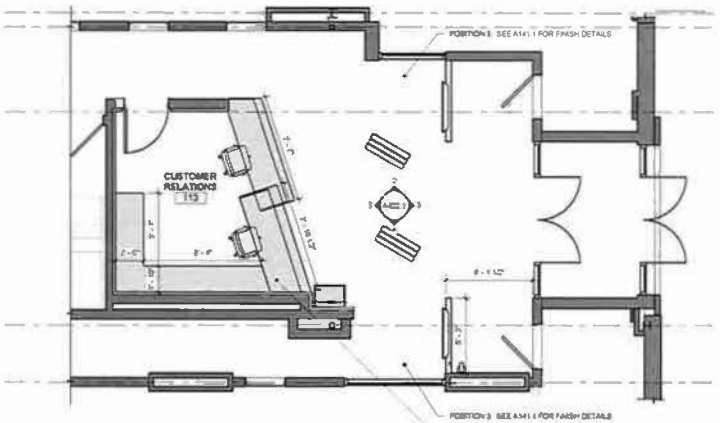
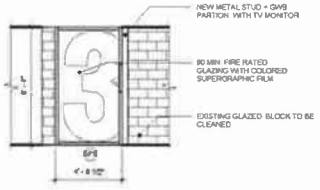
ENLARGED PLANS @ POSITIONS

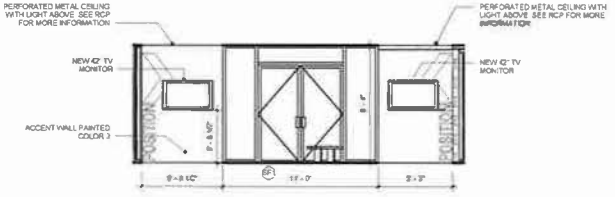
A401.1



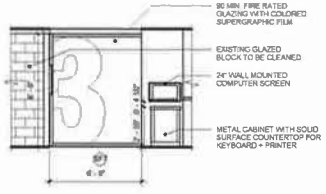
1 ENLARGED PLAN - LOBBY
1/4" = 1'-0"



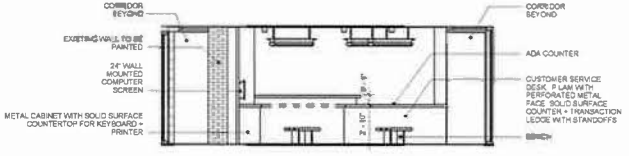
2 POSITION 3 CORRIDOR 103
1/4" = 1'-0"



3 LOBBY- EAST ELEVATION
1/4" = 1'-0"



4 POSITION 3 CORRIDOR 102
1/4" = 1'-0"



5 LOBBY - WEST ELEVATION
1/4" = 1'-0"

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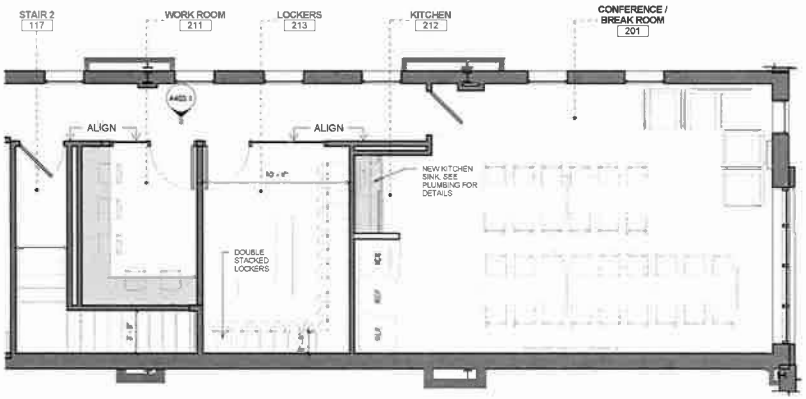
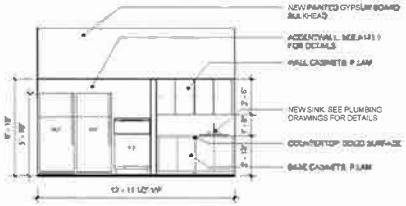
ENLARGED PLANS @ LOBBY

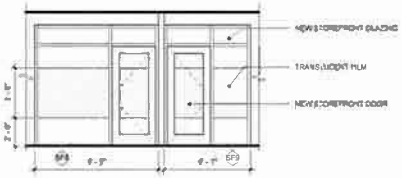
A402.1



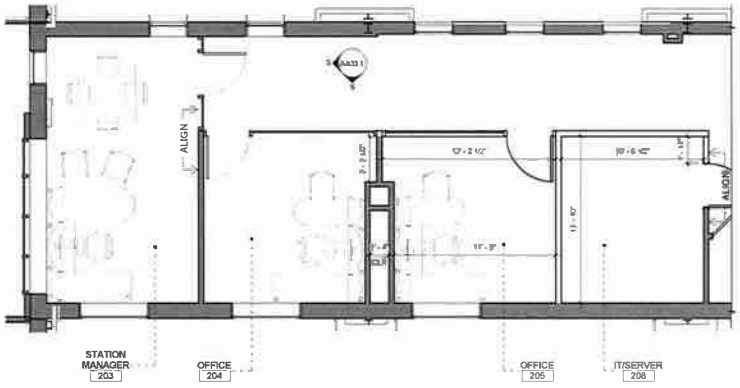
1 CONFERENCE/BREAK ROOM, LOCKER ROOM + WORK ROOM
1/4" = 1'-0"



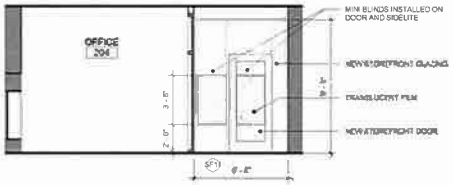
2 INTERIOR ELEVATION KITCHEN
1/4" = 1'-0"



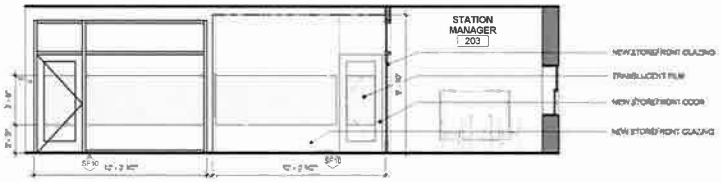
3 INTERIOR ELEVATION WORK ROOM AND LOCKERS
1/4" = 1'-0"



4 CONFERENCE ROOM + OFFICES
1/4" = 1'-0"



5 INTERIOR ELEVATION OFFICES WEST
1/4" = 1'-0"



6 INTERIOR ELEVATION OFFICES SOUTH
1/4" = 1'-0"

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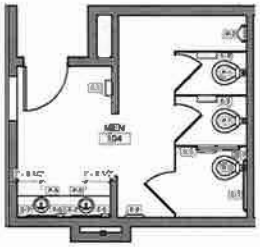
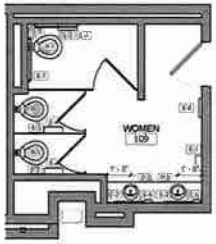
ENLARGED PLANS @ SECOND FLOOR

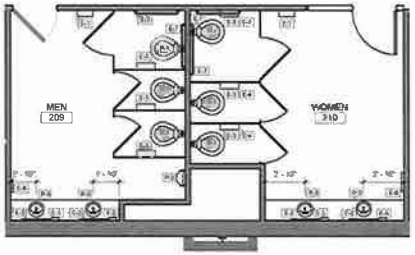
A403.1



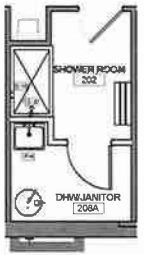
1 TOILET PLAN - LEVEL 1 MEN
1/4" = 1'-0"



2 TOILET PLAN - LEVEL 1 WOMEN
1/4" = 1'-0"

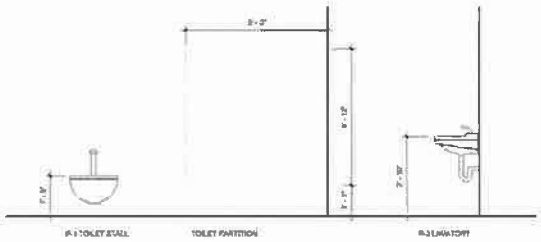


3 TOILET PLANS - LEVEL 2
1/4" = 1'-0"



4 SHOWER ROOM PLAN- LEVEL 2
1/4" = 1'-0"

TYPICAL MOUNTING HEIGHTS

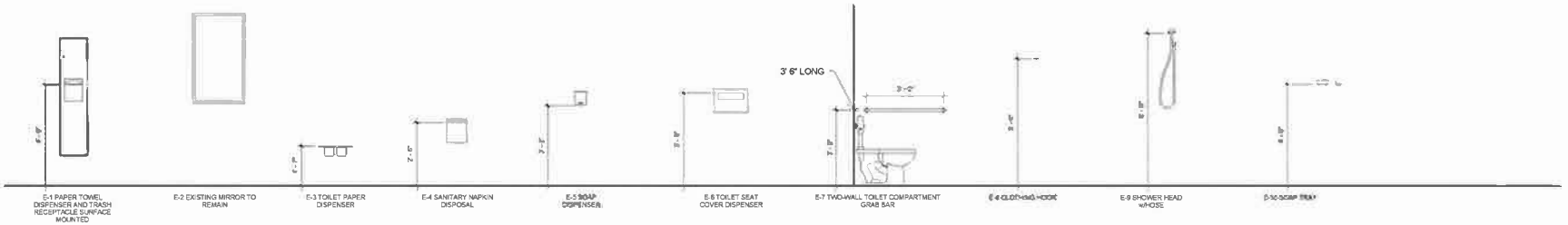


TOILET FIXTURE SCHEDULE

NO	DESCRIPTION	MFR	MODEL
F-1	WATER CLOSET	AMERICAN STANDARD	[illegible]
F-2	URINAL	AMERICAN STANDARD	[illegible]
F-3	LAVATORY	AMERICAN STANDARD	[illegible]
F-4	UTILITY SINK		

ACCESSORIES SCHEDULE

NO	DESCRIPTION	MFR	MODEL
E-1	PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	-
E-2	EXISTING MIRROR TO REMAIN		
E-3	TOILET PAPER DISPENSER W/SHELF	BOBRICK	B-2480
E-4	SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED	BOBRICK	B-270
E-5	SOAP DISPENSER, SURFACE MOUNTED	BOBRICK	818615
E-6	TOILET SEAT COVER DISPENSER	BOBRICK	B-4221
E-7	TWO-WALL TOILET COMPARTMENT GRAB BAR	BOBRICK	B-6897
E-8	CLOTHING HOOKS	BOBRICK	B-2116
E-9	SHOWER HEAD W/HOSE		
E-10	SOAP TRAY	BOBRICK	B-6807
E-11	TOILET PARTITIONS, FLOOR MOUNTED BAKED ENAMEL	BRADLEY	BAKED ENAMEL - [illegible]



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DISTRICT OF COLUMBIA REGISTERED ARCHITECT No. 7543

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ENLARGED PLANS @ BATHROOM

A404.1

DOOR TYPES

GENERAL NOTES:
1 SILENCERS ON ALL DOORS
2 V.I.F. ALL EXISTING OPENINGS PRIOR TO ORDERING + INSTALLATION

(A) EXTERIOR DOORS (DBL) ALUMINUM STOREFRONT SYSTEM

(B) INTERIOR DOORS ALUMINUM STOREFRONT SYSTEM

(C) INTERIOR DOORS HM DOOR + FRAME

(D) INTERIOR DOORS HM DOOR + FRAME WITH GLASS LITE

(E) INTERIOR DOORS ALUM DOOR AND FRAME FULL GLASS LITE

DOOR HARDWARE SCHEDULE

HARDWARE GROUP NO. 1 (STOREFRONT DOUBLE DOORS)

6	EA	HW HINGE	
1	EA	DEADBOLT LOCKSET	
2	EA	FSIC CORE	COORDINATE KEYING WITH DGS
1	EA	CONCEALED CLOSER	
1	SET	SEALS	
2	EA	DOOR PULLS	
1	EA	THRESHOLD	

HARDWARE GROUP NO. 2 (BATHROOM DOORS)

3	EA	HW HINGE	4.5 X 4.5
1	EA	PUSH PLATE	IVES 8200
1	EA	PULL	IVES 8302
1	EA	THRESHOLD	

HARDWARE GROUP NO. 3 (NEW HARDWARE ON EXISTING STEEL DOORS)

1	EA	INTEGRATED WIR DOOR ACCESS	SIMILAR TO CORBIN RUSSWIN ACCESS 800 W1
1	EA	DOOR LOCK MAGNET	COMPATABLE WITH INTEGRATED DOOR ACCESS

HARDWARE GROUP NO. 4 (STOREFRONT DOORS)

3	EA	HINGES
1	EA	LATCH + PASSAGE SET
1	EA	LOCK + CORE
1	EA	THRESHOLD
1	EA	ASTRAGAL

HARDWARE GROUP NO. 5 (SHOWER ROOM, IT SERVER ROOM DOORS)

3	EA	HINGES
1	EA	LATCH + PASSAGE SET
1	EA	LOCK + CORE
1	EA	THRESHOLD
1	EA	ASTRAGAL

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DISTRICT OF COLUMBIA
RICHARD BOGUSTER
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REGISTERED
ARCHITECT

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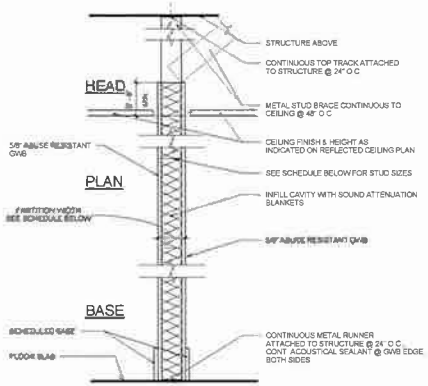
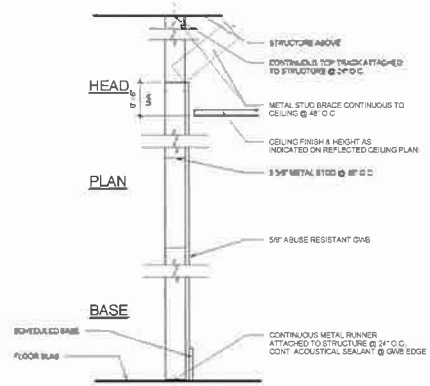
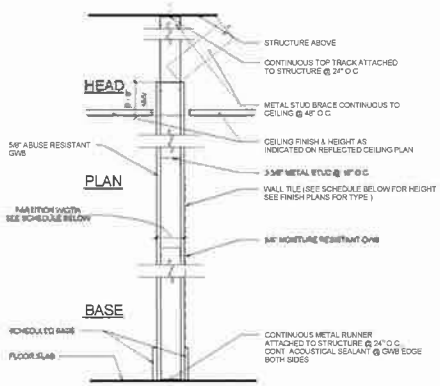
DOOR SCHEDULES

A801.1

PARTITION TYPES







PARTIAL HEIGHT PARTITION

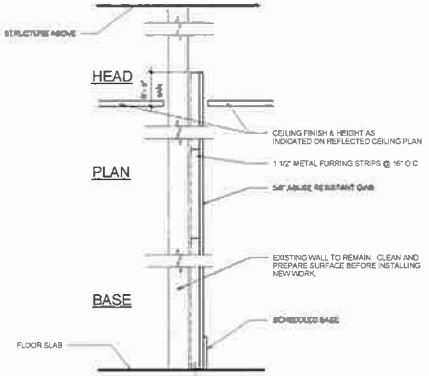
TYPE	PART. WIDTH	MAX. HEIGHT	STUD SIZE	MAX. STUD SPACING O.C.	SOUND BATT. INSUL.	FIRE RATING	UL RATING	REMARKS
P1	4 3/8"	17'-6"	3 5/8"	24"	YES	NONE	NONE	GWB BOTH FACES
P1A	MATCH EXISTING	12'-6"		24"	YES	NONE	NONE	GWB BOTH FACES

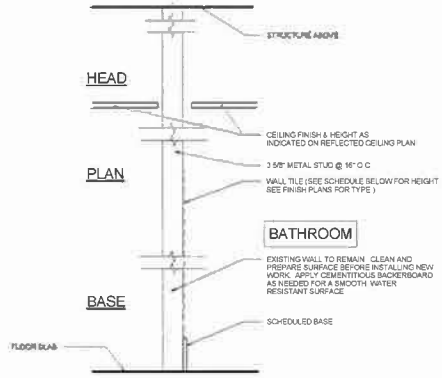
PARTIAL HEIGHT PARTITION

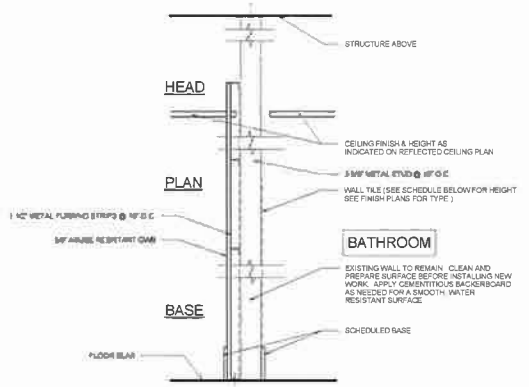
TYPE	PART. WIDTH	MAX. HEIGHT	STUD SIZE	MAX. STUD SPACING O.C.	SOUND BATT. INSUL.	FIRE RATING	UL RATING	REMARKS
P2	4 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	GWB ON ONE SIDE

PARTIAL HEIGHT PARTITION

TYPE	PART. WIDTH	MAX. HEIGHT	STUD SIZE	MAX. STUD SPACING O.C.	SOUND BATT. INSUL.	FIRE RATING	UL RATING	REMARKS
P3	4 3/4"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	WALL TILE ONE SIDE 48" AFF.
P3A	4 3/4"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	WALL TILE ONE SIDE 5" ABOVE CEILING
P3B	MATCH EXISTING	12'-6"		24"	NONE	NONE	NONE	WALL TILE ONE SIDE 5" ABOVE CEILING







PARTIAL HEIGHT FURRING WIDTH PARTITION

TYPE	PART. WIDTH	MAX. HEIGHT	STUD SIZE	MAX. STUD SPACING O.C.	SOUND BATT. INSUL.	FIRE RATING	UL RATING	REMARKS
F1	2 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	GWB ON ONE SIDE

PARTIAL HEIGHT FURRING WIDTH PARTITION

TYPE	PART. WIDTH	MAX. HEIGHT	STUD SIZE	MAX. STUD SPACING O.C.	SOUND BATT. INSUL.	FIRE RATING	UL RATING	REMARKS
F2	2 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	WALL TILE ONE SIDE UP TO 48"
F2A	2 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	WALL TILE ONE SIDE 5" ABOVE CEILING
F3	2 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	WALL TILE BOTH SIDES UP TO 48"
F3A	2 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	WALL TILE BOTH SIDES 5" ABOVE CEILING

PARTIAL HEIGHT FURRING WIDTH PARTITION

TYPE	PART. WIDTH	MAX. HEIGHT	STUD SIZE	MAX. STUD SPACING O.C.	SOUND BATT. INSUL.	FIRE RATING	UL RATING	REMARKS
F4	2 1/8"	17'-6"	3 5/8"	24"	NONE	NONE	NONE	GWB OR ONE SIDE WALL TILE 5" ABOVE CEILING ON OTHER SIDE

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PARTITION TYPES

A802.1

DIVISION 1 - GENERAL REQUIREMENTS

01 41 00 REGULATORY REQUIREMENTS

A The Work shall comply with applicable codes, ordinances, rules, regulations, ordinances, laws, orders, approvals, etc., that are required by public authorities. In the event of conflict, the most stringent requirements shall govern. Requirements include but are not necessarily limited to the currently applicable editions or publications of the following:
1 ICC International Building Code (IBC) 2006 Edition
2 ICC International Existing Building Code (IEBC) 2006 Edition
3 National Fire Protection Association
4 American National Standards Institute
5 American with Disabilities Act Accessibility Guidelines

B Install building standard fire extinguishers and [illegible] where required by applicable codes. Coordinate final locations with Architect.

01 23 00 ALTERNATES AND UNIT PRICES

A The Contractor shall provide pricing for all alternates indicated in the bid form.

B The Contractor shall provide Unit Pricing for items identified in the bid form.

C The Owner reserves the right to reduce or increase the total Scope of Work by accepting any of the Alternates or added/deleted Unit Price Items.

01 25 00 SUBSTITUTIONS

A The Contractor's bid shall be based on providing all specified items. Substitutions shall be considered only under the following circumstances:
1 The specified item is accompanied by the words "equal to". References to makes, brands, models, etc. is to establish type and quality desired.
2 The item is shown to have a prohibitively long lead time.
3 An item of equal appearance and equal or greater quality to the specified item can be provided at substantial savings to the Owner.

B Substitutions shall be considered by the Architect for acceptance under the following procedure:
1 The Contractor shall make all requests for substitutions within seven (7) calendar days of contract award.
2 The Architect requires seven (7) calendar days for review of the Contractor's request for substitution.
3 The Contractor's request for substitutions shall include product information and samples as deemed necessary by the Architect of both the specified item and proposed substitution. Characteristics of both products shall be clearly identified for the Architect's evaluation.

01 29 00 MEASUREMENT AND PAYMENT

A Prior to commencing with the Work, the Contractor shall submit to the Architect the following information:
1 A Schedule of Values indicating the components of Work listed in sufficient detail to the satisfaction of the Architect and the Owner to serve as a basis for computing values for Applications for Payments during construction.
2 A construction schedule for the Work in bar chart form. This schedule will be used as the basis for evaluating progress of the Work and Applications for Payments.

B The above schedule will be used as the basis for evaluating progress of the Work and Applications for Payments.

C Applications for Payment shall use AIA Document G702. Applications are to be notarized and bear the signature of an authorized officer.

D Only approved Change Orders are to be included on Applications for Payment.

01 31 00 COORDINATION

A Cooperation with Base Building and other Building Occupants:
1 [illegible]
2 Refer to ADDJ 1 for further explanation of Scope of Work requirements, and operational requirements.
3 The Contractor shall be required to meet all Owner requirements for construction.
4 [illegible]
5 The Contractor shall review the base building Contract Documents and shall comply with base building requirements [illegible].
6 Prior to drilling and penetrations, the Contractor shall do the following:
a [illegible]
b [illegible]
c [illegible]

B Coordination with Owner - Supplied Items:
1 [illegible]
2 [illegible]
3 [illegible]
4 Any ambiguity or need for clarification regarding scope of Work related to Owner-supplied items is to be reviewed with the Architect prior to commencing with the Work.
5 Telephone and data work shall be coordinated by the Contractor with Owner's representative.
6 Security System work shall be coordinated by the Contractor with Owner's representative.

C Cut and fit components for alteration of existing work and installation of new work. Patch disturbed areas to match adjacent materials and finishes.

D Prior to construction, the Contractor shall verify that no conflicts exist in location of any mechanical, telephone, electrical, plumbing and sprinkler equipment (to include piping, duct work, structural member and conduit) and that required clearances for installation and maintenance of above equipment are provided. Elements in conflict shall be determined and reviewed with Architect for resolution prior to construction.

E Contractor shall order and schedule delivery of materials in ample time to avoid delays in construction. If an item is found to be unavailable or have a long lead time, the Contractor shall notify Architect within seven (7) days of contract award.

[illegible]

4 Fiberboard:
a Recycled content
1 Structural: Minimum 80 percent recycled content.
2 Non-Structural: Minimum 100 percent post-consumer recycled content.

5 Cellulose Honeycomb Panels: Panels shall be made of Kraft paper.
a Recycled content: Minimum 100 percent post-consumer recycled content.

6 Particleboard: Compressed wood fibers with phenol formaldehyde resin binder.

06 20 00 FINISH CARPENTRY

A Submittals
1 Submit shop drawings and hardware catalog cuts of all millwork hardware for review by the Architect in accordance with the requirements of the Contract Documents. Shop drawings shall show the design and dimensions, and clearly indicate in large scale the construction of the various components, reinforcements and other pertinent data and information as required for construction. Any variation from the drawings must be clearly noted as a variation from the requirements. Fabrication of millwork shall not proceed until shop drawings have been approved by the Architect.
2 The contractor shall submit a minimum of three (3) 12"x12" samples of all millwork finishes (including stone and metal) for approval. The Architect shall retain two (2) samples of finishes for record and return a minimum of one sample to Contractor. In circumstances as appropriate, size of samples may be adjusted if requested in writing by Contractor and approved by Architect prior to submission. Finishing of millwork shall not proceed until samples have been approved.
3 The Contractor shall provide the Architect with anticipated delivery date for all millwork. The Contractor shall continue to monitor in writing the anticipated delivery dates until all finish materials have been received.
4 When Forest Stewardship (FSC) certified wood is required, the Contractor shall provide written verification of the use of such wood to the Architect.

B VERIFICATION OF EXISTING CONDITIONS
1 Before proceeding with the millwork, the Contractor is to obtain field measurements, verify dimensions, and provide shop drawings and details to ensure an accurate fit. Any variance found in the field must be brought to the attention of the Architect prior to fabrication. It is the responsibility of the Contractor to coordinate with the millwork subcontractor any revisions or clarifications issued by the Architect.
2 The contractor shall provide field layout of all work and report any discrepancies to the Architect.

C EXECUTION OF THE WORK
1 [illegible]
2 [illegible]
3 [illegible]
4 [illegible] All exposed [illegible] shall be shown on shop drawings and approved by the Architect.
5 For millwork indicating plastic laminate, exterior finished surfaces, provide black melamine as the interior cabinet and drawer surface finish (unless otherwise noted in the Drawings and details).
6 Install millwork to be plumb, level, true and straight with no distortions. Shim as required using concealed shims.
7 Scribe and cut Work to fit adjoining Work and refinish cut surfaces or repair damaged finish at cuts. Provide clear sealant at all joints.
8 Anchor millwork to built-in blocking or directly attached to substrate. Secure to grounds, stripping and blocking with counter-sunk, concealed fasteners and blind nailing, as required for a complete installation.
9 The Contractor shall be responsible for making certain that millwork items are not delivered until areas are sufficiently dry so that the millwork will not be damaged by excessive changes in the moisture content. All delivered units shall match the final approved shop drawings and samples. Units which are marred, chipped or otherwise damaged shall be repaired or replaced as determined by the Architect. Units shall be protected during the shipment and installation. After installation of units in their proper location, all protection shall be removed and all surfaces thoroughly cleaned to the complete satisfaction of the Architect. Surfaces shall then be recovered and protected.
10 [illegible] if millwork cannot be [illegible] to the satisfaction of the Architect.
11 All [illegible] Grade lumber to meet AWI requirements of Premium Grade.

12 35 30 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07 21 00 THERMAL INSULATION

07 84 13 PENETRATION FIRESTOPPING

DIVISION 8 - DOORS AND WINDOWS

08 11 13 HOLLOW METAL DOORS AND FRAMES

A SUBMITTALS
1 Shop Drawings
a Submit shop drawings that show elevations of each door design, door construction details, and methods of assembling sections, hardware locations, and installation methods, dimensions, and shapes of materials, anchorage and fastening methods, door frame types and details, wall opening construction details, and finish requirements.
b Indicate location of each unit in Project.
c Shop drawings submittal shall be coordinated with shop drawings submission of related portions of Work, such as:
i Wood Doors
ii Hardware

B QUALITY ASSURANCE
1 Qualifications
a Single Source Responsibility
i [illegible]
ii [illegible]

C HOLLOW METAL FRAMES
1 [illegible]
a Gauge: 16 gauge
b Frames over 4'-0" (1200 mm) wide: 14 gauge

D FINISHES
1 Shop Priming
a Doors and frames shall be [illegible] and coated on [illegible] surfaces with a [illegible] primer suitable as a base for finish paints.
b Apply primer [illegible]. Allow to fully cure before shipment.

E FRAME TOLERANCES
1 Squareness: +/-1/16" (1.5mm)
a [illegible]
2 Alignment: +/- 1/16" (1.5mm)
a Measured on jambs on a horizontal line parallel to plane of wall.
3 Twist: +/- 1/16" (1.5mm)
a Measured at face corners of jambs on parallel lines perpendicular to plane of wall.
4 Plumbness: +/- 1/16" (1.5mm)
a Measured on jambs at floor.

F DOOR CLEARANCES SUBJECT TO +/- 1/32" [illegible] TOLERANCE
1 Head and Jambs: 1/8" (3mm)
2 [illegible]
a [illegible]
b [illegible]
c [illegible] more than 1/4" (6mm) above threshold.

G ADJUSTMENTS
1 Prime Coat Touch-up
a [illegible]
b [illegible]
2 FINAL ADJUSTMENTS
a Check and re-adjust operating finish hardware just prior to final inspection and after painting hinges if hinges are indicated to be painted.
b Remove and replace defective work.

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SPECIFICATIONS

A901.1

DIVISION 8 - DOORS AND WINDOWS (CONTINUED)

[illegible]

A SUBMITTALS

Product Data
Technical Information Submit latest edition of manufacturer's product data providing product descriptions, technical data, Underwriters Laboratories, Inc. listings and installation instructions

Shop Drawings
1 Include plans, elevations and details of product showing component dimensions, framing opening requirements, dimensions, tolerances, and attachment to structure
2 Provide templates for the location of embeds and anchor locations required for any adjoining work (if applicable).

Samples
1 Two 8-inch by 10-inch samples for glass
2 Sample of frame
3 Verification of sample selected finish

Glazing Schedule Use same designations indicated on drawings for glazed openings in preparing a schedule listing glass types and thicknesses for each size opening and location

Warranties
1 Submit manufacturer's warranty
2 Certificates of compliance from glass and glazing materials manufacturers attesting that glass and Glazing materials furnished for project comply with requirements
3 Separate certification will not be required for glazing materials bearing manufacturer's permanent label designating type and thickness of glass, provided labels represent a quality control program involving a recognized certification agency or independent testing laboratory acceptable to authority having jurisdiction

B QUALITY ASSURANCE

Testing Agency Qualifications Qualifications according to
1 International Accreditation Service for a Type A Third Party Inspection Body (Field Services ICC-ES Third-Party Inspections Standard Operating Procedures 00-BL-S0400 and S0401)
2 International Accreditation Service for Testing Body-Building Materials and Systems

Fire Testing
1) ASTM Standards E 119
2) CPSC Standards 16 CFR 1201
3) NFPA Standards 251, 252, 257
4) UL Standards 9, 10B, 10C, 1784, UL Subject 63
5) BS 476, Part 22 1987
6) EN 1634-1
7) CAN Standards S 101, S 104, S 106

Installer Qualifications An experienced installer who has completed glazing similar in material design and extent to that indicated for this Project, whose work has resulted in glass installations with a record of successful in-service performance and who employs glass installers for this Project who are certified under the National Glass Association Glazier Certification Program as Level 2 (Senior Glaziers) or Level 3 (Master Glaziers)

Source Limitations for Glazing Accessories Obtain glazing accessories from one source for each product and installation method indicated

Listings and Labels - Fire Rated Assemblies Under current follow up service by Underwriters Laboratories® maintaining a current listing or certification Label assemblies accordance with limits of manufacturer's listing

C PROJECT CONDITIONS

Obtain field measurements prior to fabrication of frame units If field measurements will not be available in a timely manner coordinate planned measurements with the work of other sections Note whether field or planned dimensions were used in the creation of the shop drawings

Coordinate the work of this section with others effected including but not limited to other interior components and door hardware beyond that provided by this section

D WARRANTY

When warranties are required verify with Owner's counsel that special warranties stated in this Article are not less than remedies available to Owner under prevailing local laws Coordinate with Division 1 Section "Product Requirements"

[illegible]

E ACCEPTABLE MANUFACTURERS/PRODUCTS

Manufacturer Glazing Material "Pilkington Pyrostop®" fire-rated glazing as manufactured by the Pilkington Group and distributed by Technical Glass Products 8107 Bracken Place SE Snoqualmie WA 98065 (800-426-0279) fax (800-451-9857) e-mail sales@fireglass.com web site http://www.fireglass.com

Frame System "Fireframes® Aluminum Series" fire-rated frame system as manufactured and supplied by Technical Glass Products 8107 Bracken Place SE Snoqualmie WA 98065 (800-426-0279) fax (800-451-9857) e-mail sales@fireglass.com web site http://www.fireglass.com

F PERFORMANCE REQUIREMENTS

System Description
Steel fire-rated glazed wall and/or window system [illegible]
Face widths available
1) 2"
2) Custom extruded aluminum cover caps
3) Custom stainless steel cover caps

[illegible]

Delegated design For the performance requirements listed below requiring structural design provide data, calculations and drawings signed and sealed by an engineer licensed in the state [province] where the project is located

Design Requirements
Design and size the system to withstand structural forces placed upon it without damage or permanent set when tested in accordance with ASTM E330 using load 1.5 times the design wind loads and of 10 seconds in duration at +/- 10 PSF

G MATERIALS - GLASS

Fire Rated Glazing Composed of multiple sheets of Pilkington Optiwhite™ high visible light transmission glass laminated with an intumescent interlayer

[illegible] ANSI Z97.1 and CPSC 16CFR1201 [illegible]

Properties Interior Glazing
Property
Fire Rating 120 minute
Manufacturer's designation 120-106
Glazing type IGU
Nominal Thickness 2-1/4" (57mm)
Weight in lbs/sf 22.9
Daylight Transmission 75%
Sound Transmission Coefficient 46dB

Logo Each piece of fire-rated glazing shall be labeled with a permanent logo including name of product, manufacture testing laboratory (UL), fire rating period safety glazing standards and date of manufacture

Glazing Accessories Manufacturer's standard compression gaskets standoff spacers, setting blocks and other accessories necessary for a complete installation

H MATERIALS—ALUMINUM FRAMES

Aluminum Framing System (120 min.)

Steel Frame — The steel framing members are made of two halves nom 1.9 in wide (48.3 mm) with a nom minimum depth of 1.38 in (35 mm) with lengths cut according to glazing size.

Aluminum Trim — Supplied with the steel framing members Nom 2 in (50.8 mm) wide with a nom depth of 1.54 in (39 mm) with lengths cut according to glazing size

Stainless Steel Standoffs — Supplied with the steel framing members Nom 5/16 in (8 mm) diameter with a nom minimum depth of 1 1/8 in (28 mm) with depth adjusted to match Pilkington Pyrostop® Panel thickness.

Stainless Steel Moment and Connecting Braces — Supplied with the steel framing members. Nom 3/8 in (10 mm) thick with a nom minimum depth of 1 1/8 in (28 mm) with depth adjusted to match Pilkington Pyrostop® Panel thickness

Framing Member Fasteners — Supplied with the steel framing members Screws are M6 x 16mm Button Head Socket Cap Screws for frame assembly and #6 x 1" Pan Head Sheet Metal Screws for door installation

Glazing Gasket — Supplied with the steel framing members Nom 3/4 in (19 mm) by 3/16 in (4.5 mm) black applied to the steel framing members to cushion and seal the glazing material when installed

I INSTALLATION

General Install frame system plumb, level, and true to line without warp or rack of frames with manufacturer's prescribed tolerances and installation instructions Provide support and anchor in place

Install fire window by a specialty contractor with appropriate experience qualifications, and in strict accordance with the approved shop drawings Employ experienced mechanics familiar with this type of specialized work Firmly pack perimeter of framing system to rough opening with mineral wool fire stop insulation or appropriately rated intumescent sealant

Install glazing in strict accordance with fire resistant glazing material manufacturer's specifications. Field cutting or tampering is not permissible

[illegible]

Install plumb and true Limit out of plumb or true to 1/8 inch in 10'-0" in any dimension

REPAIR AND TOUCH UP

1 Powder Coated Finishes
2 Limited to minor repair of small scratches Use only manufacturer's recommended products.
3 Such repairs shall match original finish for quality of material and view
4 Repairs and touch-up not visible from a distance of 5 feet Owner and Architect to approve
5 Remove and replace glass that is broken, chipped, cracked, abraded, or damaged

PROTECTION AND CLEANING
Protect glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface Remove nonpermanent labels and clean surfaces.
Do not clean with astringent cleaners Use a clean "grit free" cloth and a small amount of mild soap and water or mild detergent
Do not use any of the following
a Steam jets
b Abrasives
c Strong acidic or alkaline detergents, or surface-reactive agents
d Detergents not recommended in writing by the manufacturer
e Do not use any detergent above 77 degrees F
f Organic solvents including but not limited to those containing ester, ketones alcohols aromatic compounds, glycol ether, or halogenated hydrocarbons
g Metal or hard parts of cleaning equipment must not touch the glass surface

Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter If, despite such protection, contaminating substances do come into contact with glass remove them immediately as recommended by glass manufacturer.
Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion Wash glass as recommended by glass manufacturer

[illegible]

08 71 00 DOOR HARDWARE

REFER TO DRAWINGS FOR LIST OF DOOR HARDWARE APPLICABLE TO THIS PROJECT

DIVISION 9 - FINISHES

[illegible]

A SUBMITTALS
1 The Contractor shall submit a minimum of three (3) 12"x12" square samples of each schedule finish for review by the Architect The Architect shall retain two (2) samples of finishes for record and return a minimum of one sample to the Contractor
2 The Contractor shall advise the Architect of locations of changes in dye lots, batches or similar color shifts

B QUALITY ASSURANCE
1 Before proceeding with procurement of finishes, the Contractor shall field verify dimensions to assure that sufficient quantities of materials are ordered to complete the work
2 The Contractor shall refer to the Drawings for specific locations of finishes. Should the Contractor find any discrepancies, omissions, ambiguities or conflicts on the plans, the Contractor shall bring the item (s) to the attention of the Architect for direction before ordering materials of proceeding with any work in question
3 Finishes to be installed in strict accordance with the manufacturer's specifications and instructions and in a manner consistent with the highest quality standards of workmanship
4 Where there is a question as to the acceptable level of quality for the installation of any materials, the Architect shall act as mediator
5 Upon receipt from the manufacturer, inspect materials for defects, flaws, shipping damage, correct color and pattern Prior to beginning work, damaged or wrong materials shall be returned to the manufacturer for immediate replacement to prevent delays in the completion of the work
6 Compliance with the manufacturer's requirements for handling, storage, installation and protection is the exclusive responsibility of the Contractor
7 Finishes shall extend over, under and/or or behind any item of built-in millwork, equipment, mirrors etc, as indicated on the drawings

09 29 00 GYPSUM BOARD

A GENERAL
1 The Contractor shall notify Architect of date for partition layout. Layout shall be approved by Architect prior to construction
2 All gypsum board installation shall be done by a qualified installer with experience in commercial applications similar in scope to this project.
3 Gypsum board installation shall conform to ASTM C840, the recommendations of the Gypsum Association, the specific recommendations of the manufacturer, and the requirements of the UL Fire Resistance Directory (at fire rated partitions)
4 At areas where existing partitions are indicated to remain, repair and prepare existing gypsum board surface to accept new finish Quality of repaired and prepared surface of existing partition shall be equal to that of newly constructed partitions
5 In damp areas, provide water resistant gypsum board
6 At partitions in shower areas schedule to receive ceramic tile
a [illegible]
b [illegible]
c [illegible]

B [illegible]

B METAL FRAMING
1 Installation of metal framing for interior gypsum board shall conform to ASTM C754
2 Metal stud gauge for partitions shall be 25 gauge minimum unless noted otherwise Metal studs are fire rated partitions shall be 20 gauge minimum
3 At partitions scheduled to receive ceramic tile metal studs shall be 3 5/8" 20 gauge minimum spaced at 16" on center maximum
4 Metal stud framing shall conform to ASTM C754 as follows

Stud Depth	GWB layers each side	Max height* L/240 @ 5lbs sf	Studspacing on center
2.5"	one	11'8"	16"
2.5"	one	10'8"	24"
2.5"	two	12'7"	24"
3 5/8"	one	15'5"	16"
3 5/8"	one	13'8"	24"
3 5/8"	two	15'5"	24"

* The use of these tables shall be limited to applications involving simply supported conditions Where studs are braced at or below maximum stud height (by suspended ceiling or separate bracing), the overall height may be increased by 50%

5 Metal runners shall correspond in size and gauge to metal studs. Metal runners shall be continuous and attachment shall be at 24" on center unless noted otherwise.
6 Metal furring shall be spaced at 24" on center unless noted otherwise

C Fire Rated Gypsum Board Partitions
1 Fire rated partitions shall conform to UL design number indicated Refer to UL Fire Resistance Directory - Volume 1 (latest edition) for additional information
2 All Mechanical, Electrical, and Plumbing penetrations in sound rated partitions shall be sealed at their perimeter with approved fire rated sealer.

D Sound Rated Partitions
1 Sound rated partitions shall conform to ASTM E497, Standard Practice for Installing Sound-Isolating Lightweight Partitions
2 All Mechanical, Electrical, and Plumbing penetrations in sound rated partitions shall be sealed at their perimeter with approved acoustical sealer

E [illegible]
1 [illegible]
2 [illegible]
3 [illegible]
4 [illegible]
5 Provide "fast mask" type metal edge trim at all conditions where gypsum board meets dissimilar materials, unless noted otherwise
6 Alignment of door heads and other critical horizontal elements shall be maintained at a constant level relative to the ceiling plane, and shall not follow variation on the floor plane
7 Partition types above door are to be same as the adjacent partitions unless noted otherwise
8 Align face of partitions with face of adjacent column unless noted otherwise
9 Locate edge of doors 4" from adjacent perpendicular partition, unless noted otherwise
10 Provide bracing to structure above at doors located in ceiling high partitions
11 Provide additional studs as required to achieve outlet groupings
12 Coordinate return air openings above ceilings in slab to slab partitions with Mechanical Drawings. Identify proposed return air opening locations in field for Architects approval prior to installation
13 Contractor shall locate items requiring access so as to avoid the requirement of access panels in gypsum board walls and ceilings Where access panels must be installed in gypsum board walls and ceilings due to existing base building services, Contractor shall provide and install flush gypsum board frame type access panels. Identify proposed access panel location in field for Architects approval prior to installation
14 In areas scheduled to have ceiling open to structure and where existing gypsum board or plaster bulkheads and column enclosures are scheduled to remain, extend and finish gypsum board or plaster to underside of structure

F Blocking
1 Wood blocking shall be fire retardant treated (FRT). Install wood blocking as required in partitions at wall hung shelving, cabinets, artwork, toilet partitions and accessories, etc. Verify blocking requirements with millwork subcontractor and review with the Architect

09 30 00 TILE

A ACCESSORIES
1 Adhesives Water-resistant organic ANSI A136.1
a Toxicity/IEQ Comply with applicable regulations regarding toxic and hazardous materials, GS-36 for Commercial Adhesive, South Coast Air Quality Management District Rule 1168
2 Sealants
a Toxicity/IEQ Comply with applicable regulations regarding toxic and hazardous materials, Bay Area Air Quality Management District Reg 8 Rule 51 and as specified
3 Prepared Grouts
a Toxicity/IEQ Cement based, petroleum-free and plastic-free grout ANSI A118.4

09 51 23 ACOUSTICAL CEILINGS

A Submittals
1 Submit a minimum of three samples of the following
a Acoustical ceiling panels 6"x6" minimum
b Suspension system components 12" in length

B Quality Assurance
1 To the greatest extent possible, materials including exposed wall moldings, suspension systems and accessories shall be products of a single manufacturer or items standard with manufacturer of acoustical ceiling panel units

C Materials
1 Lay-in ceiling
a Grid CompOnents - ASTM C635 Suspension System
i Tee USG FineLine 1/8" DXFF White
ii Wall Molding USG Shadow Molding ¼" White
b Acoustical Ceiling Panels
i Size 24" x 24"
ii Thickness 3/4"
iii Edge Style FLB
iv Color White
v Product USG Mars Clima Plus
2 High-performance lay-in ceiling
a Grid CompOnents - ASTM C635 Suspension System
i Tee USG FineLine 1/8" DXFF White
ii Fascia USG Compasso 2 ½" White
b Acoustical Ceiling Panels
i Size 48" x 48"
ii Thickness 1"
iii Edge Style FLB
iv Color White
v Product USG Halcyon Clima Plus

D Installation
1 Grid System
a Install grid system in compliance with ASTM C636
b Install grid system in a true, even plane and in straight courses as indicated on Drawings and accepted shop drawings
c Coordinate and fit ceiling components to grilles, lighting fixtures, and other related items In determining location and spacing of hanger and primary runners take into consideration weight of grilles light fixtures etc that are to be installed in conjunction with acoustical ceilings
d Provide stabilizer bars, clips, splices and edge moldings needed for a complete installation
e Hang grid system independent of walls columns ducts pipes and conduit Where carrying members are spliced avoid visible displacement of face plane of adjacent members
f Where ducts or other equipment prevent regular spacing of hanger, reinforce nearest effected hangers and related carrying channels to span extra distance
g Do not support component on main runner or cross runners if weight causes total dead load to exceed maximum deflection limitations Support fixture loads by supplementary hangers located within 6" (150 mm) of each corner, or support components independently
h Do not eccentrically load system or produce rotation of runners
2 Moldings and Trim
a Install wall moldings at intersection of suspended ceiling and vertical surfaces using longest practical lengths Provide moldings at junction with other interruptions and as needed to cover edges of acoustical ceiling panels
b Attach moldings and trim with screws spaced not more than 16" (400 mm) on center and within 3" 975 mm) of ends of each piece being installed
c Moldings and trip shall be level with suspension system an within tolerance specified for suspension system
d Miter corners an align butt joints where wall moldings intersect to form tight, hairline joints
e Face riveting of moldings and trim shall not be acceptable
3 Tolerances
a [illegible]
b [illegible]
c [illegible] loads

E Adjusting and Cleaning
1 Follow grid system manufacturer's recommendations for methods and materials to clean and touch up exposed components
2 Replace components which are discolored or damaged in any way in a manner which results in grid system showing no evidence of replacement work

09 65 00 RESILIENT FLOORING

A RUBBER TRANSITIONAL MOLDINGS AND TRIM
1 Color TBD
2 Tile Reducer Strip
a Johnsonite - Tile Reducer Strip
b Flexco - Reducer Strip
c Mercer - Tile Reducer
d Roppe - Reducer Strip
3 Joiner Strip
a Johnsonite - Tile & Carpet Joiner
b Flexco - Carpet-to-Tile Adapter
c Mercer - Tile-Carpet Joiner
d Roppe - Tile/Carpet Joiner

B ACCESSORIES
1 Primers
a Toxicity/IEQ Water-based clear of types as approved by resilient flooring manufacturer for specific material and substrates encountered
2 Adhesives
a Toxicity/IEQ Comply with applicable regulations regarding toxic and hazardous materials, GS-36 for Commercial Adhesive South Coast Air Quality Management District Rule 1168 and as specified
3 Substrates Acceptable substrates include the following
a Particleboard As specified in Section 06 16 00 - Sheathing
b Fiberboard As specified in Section 06 16 00 - Sheathing
c Cork Product
i Biobased Content Minimum 26 percent
d Cement-fiber board Portland cement sand recycled cellulose
i Recycled Content Minimum 10 percent post-consumer recycled content or minimum 40 percent pre-consumer recycled content at contractor's option

09 72 00 WALL COVERING

A SUBMITTALS
1 Product data Unless otherwise [illegible] under work of this Section
a Recycled Content
i Indicate recycled content indicate percentage of pre-consumer and post consumer recycled content per unit of product
ii Indicate relative dollar value of recycled content product to total dollar value of product included in project
iii If recycled content product is part of an assembly indicate the percentage of recycled content product in the assembly by weight.
iv If recycled content product is part of an assembly indicate relative dollar value of recycled content product to total dollar value of assembly
b Local/Regional Materials.
i Sourcing location(s) Indicate location of extraction harvesting and recovery indicate distance between extraction harvesting and recovery and the project site
ii Manufacturing location(s) Indicate location of manufacturing facility indicate distance between manufacturing facility and the project site
iii Product Value Indicate dollar value of product containing local/regional materials Include materials cost only
iv Product Component(s) Value Where product components are sourced or manufactured in separate locations provide location information for each component Indicate the percentage by weight of each component per unit of product
c VOC data
i Adhesives
2 Submit manufacturer's product data for adhesives Indicate VOC limits of the product Submit MSDS highlighting VOC limits
3 [illegible]
4 Submit manufacturer's certification that products comply with SCAQMD Rule 1168 in areas where exposure to freeze/thaw conditions and direct exposure to moisture will not occur In areas where freeze/thaw conditions do exist or direct exposure to moisture can occur, submit manufacturer's certification that products comply with Bay Area AQMD Reg 8 Rule 51 for containers larger than 16 oz and with California Air Resources Board (CARB) for containers 16 oz or less
a Biobased materials
i Indicate type of biobased material in product.
ii Indicate the percentage of biobased content per unit of product
iii Indicate relative dollar value of biobased content product to total dollar value of product included in project.
5 Submit environmental data in accordance with Table 1 of ASTM E2129 for products provided under work of this Section

B MATERIALS
1 Polyethylene
a [illegible]
2 Fabric
a Recycled Content Minimum 10 percent post-consumer recycled content or minimum 40 percent pre-consumer recycled content at contractor's option
b Biobased content Minimum 75 percent biobased wallcovering
i Sisal
ii Cork
iii Flax
3 Cellulose
a Recycled Content Minimum [10] percent post-consumer recycled content or minimum [40] percent pre-consumer recycled content at contractor's option

C ACCESORIES
1 Adhesive
a Toxicity/IEQ Comply with applicable regulations regarding toxic and hazardous materials GS-36 for Commercial Adhesive South Coast Air Quality Management District Rule 1168 [illegible]

D SITE ENVIRONMENTAL PROCEDURES
1 Indoor Air Quality Provide temporary ventilation as specified in Section 01 57 19 - Indoor Air Quality (IAQ) Management.
2 Waste Management. As specified in Section 01 74 19 - Construction Waste Management and as follows
a [illegible]

09 91 00 PAINTING

A SUBMITTALS
1 [illegible] schedule

B PRODUCTS
1 All primers and paints for gypsum wallboard and wood products shall qualify as "zero VOC" having 5 grams/liter or less VOCs
2 Acceptable Products
a Benjamin Moore & Co Pristine Eco-Spec (www.benjaminmoore.com)
b Duron Paints & Wall-coverings Genesis Odor-Free (www.duron.com)
c ICI Dulux Paints Glidden Devoe Lifemaster 2000 (www.icipaintsstores.com)
d The Sherwin Williams Company HealthSpec Low Odor Coating System (www.sherwinwilliams.com)
3 See finish schedule for paint colors and finishes

C EXECUTION
1 General
a Prior to paint application the Contractor shall schedule a review of final paint color locations with the Architect in the field
b See finish plan and interior elevations for specific locations of paint colors and finishes.
c Where paints of two different types or colors abut the seam shall be on the inside corner only
d Final coat of paint shall be roll applied at all GWB surfaces
2 Preparation
a Remove blistered peeling and scaling paint or chalk deposits to sound substrates
b Completely remove sealants or caulking
c Dull glossy surfaces
d At metal surfaces remove rust, oil, grease and other contaminants harmful to painting Sand, clean and spot prime
e At GWB surface, repair surface defects with joint compound, fill flush and sand smooth Clean surfaces of dust grease and dirt
f At wood surface sand smooth and remove dust Countersink nails and fill nail holes cracks and open joints with putty or wood filler
3 Application (unless noted otherwise)
a At GWB surfaces
i One (1) primer coat Primer sealer
ii Two (2) finish coats* Eggshell enamel finish @ walls flat @ ceilings
b At interior wood product surfaces to be painted
i One (1) primer coat Primer sealer
ii Two (2) finish coats* Semi-gloss enamel
c At interior metal door frame surfaces to be painted
i Two (2) finish coats* Semi-gloss enamel
ii *Or as many coats as necessary to completely cover surface
4 Clean-up
a The Contractor shall [illegible] into the space

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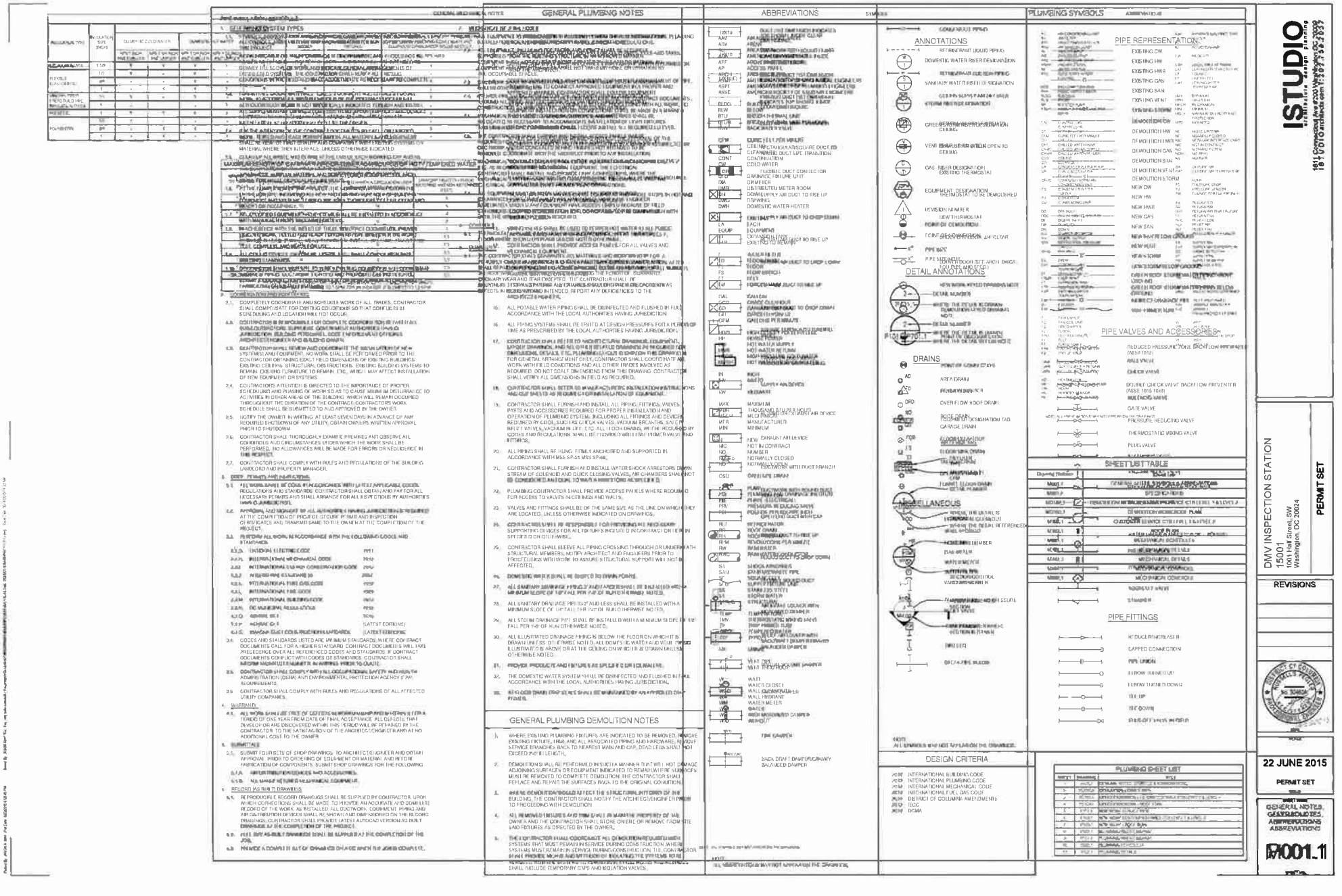
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ABBREVIATIONS
PLUMBING SYMBOLS
ANNOTATIONS
DETAIL ANNOTATIONS
DRAINS
MISCELLANEOUS
PIPE REPRESENTATION
PIPE VALVES AND ACCESSORIES
SHEET LIST TABLE
PIPE FITTINGS
GENERAL PLUMBING DEMOLITION NOTES
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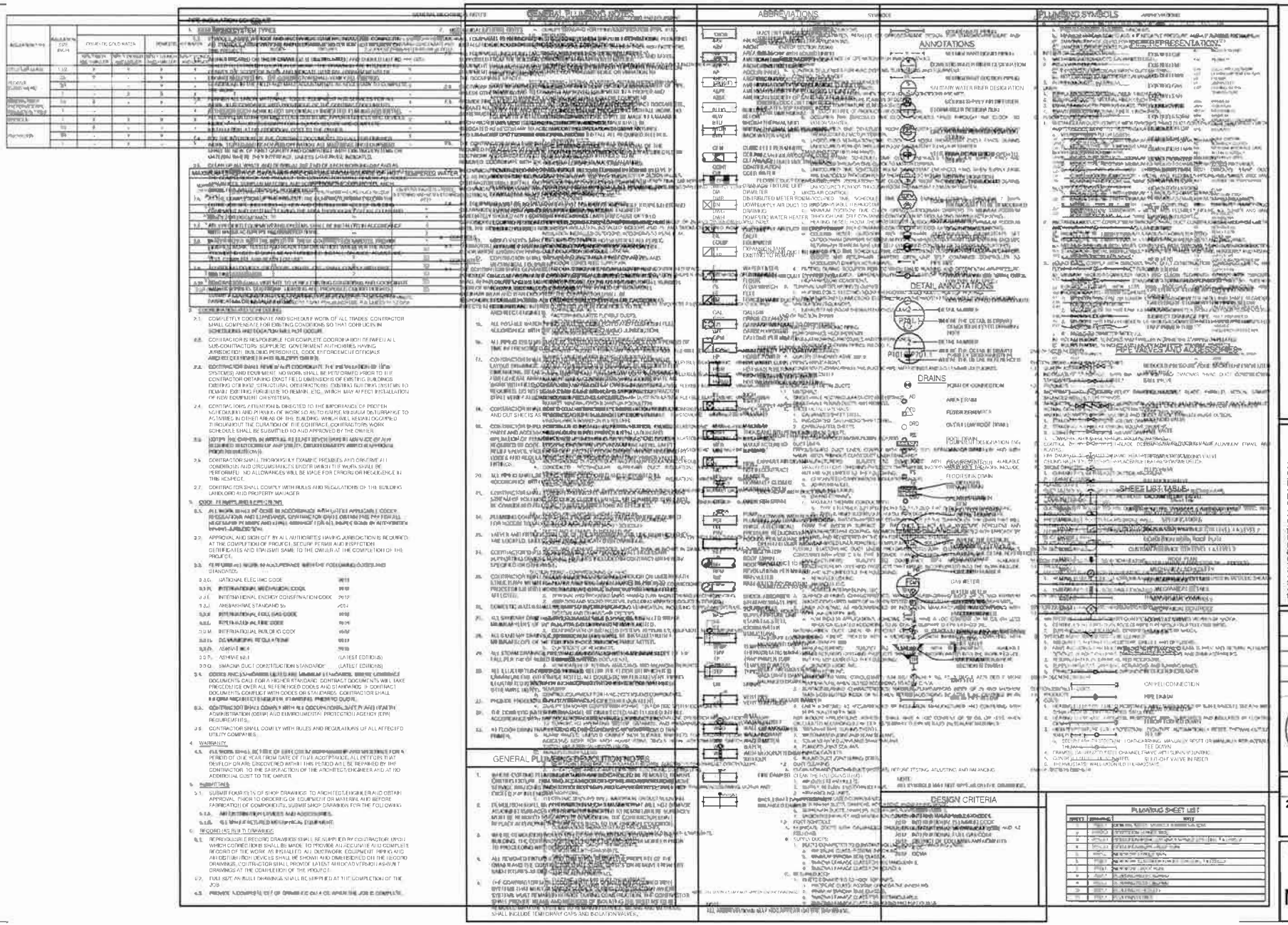
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PIPE INSULATION SCHEDULE

INSULATION TYPE		PIPING SYSTEM TYPES						
[illegible]	[illegible]	[illegible]	[illegible]	DOMESTIC HOT WATER		[illegible]	[illegible]	[illegible]
						ALL PIPE SIZES	ALL PIPE SIZES	ALL PIPE SIZES

1 DEMOLITION WORK CUSTOMER SERVICE CENTER - LEVEL 1
SCALE: [illegible]

2 DEMOLITION WORK CUSTOMER SERVICE CENTER - LEVEL 2
SCALE: [illegible]

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE, FIXTURES, ETC TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
5. BEFORE POURING CONCRETE FLOORS INSTALL ALL REQUIRED SLEEVES.
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF [illegible] FINISHED FLOOR.
11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
16. ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
17. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS, EQUIPMENT LAYOUT DRAWINGS AND ALL OTHER RELATED DRAWINGS AS REQUIRED FOR DIMENSIONS, DETAILS, ETC. PLUMBING LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL COORDINATE ALL WORK WITH FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED AS REQUIRED. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AS REQUIRED.
18. [illegible]
19. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM, INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.
20. ALL PIPING SHALL BE HUNG, FIRMLY ANCHORED AND SUPPORTED IN ACCORDANCE WITH MSS SP-58 MSS SP-69.
21. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWN STREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
22. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS.
23. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
24. [illegible]
25. [illegible]
26. [illegible]
27. [illegible]
28. [illegible]
29. [illegible]
30. [illegible]
31. [illegible]
32. [illegible]
33. ALL FLOOR DRAIN TRAP SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER.

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED [illegible]
2. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. ALL REMOVED FIXTURES [illegible] SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERING
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
[illegible]	[illegible]
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HPCW	HIGH PRESSURE COLD WATER
HWSH	HOT WATER STORAGE HEATER
IN	INCH
[illegible]	[illegible]
KW	KILOWATT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
NO.	NUMBER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OSD	OPEN SITE DRAIN
P	PUMP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
REF	REFRIGERATOR
RD	ROOF DRAIN
RH	ROOF HYDRANT
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
RWC	RAIN WATER CONDUCTOR
[illegible]	[illegible]
W	WATT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE:
ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING SYMBOLS

ANNOTATIONS

- DOMESTIC WATER RISER DESIGNATION
- SANITARY WASTE RISER DESIGNATION
- STORM RISER DESIGNATION
- OVERFLOW STORM RISER DESIGNATION
- VENT RISER DESIGNATION
- GAS RISER DESIGNATION
- EQUIPMENT DESIGNATION
- REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION
- PIPE UP
- PIPE DOWN

DETAIL ANNOTATIONS

- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- WHERE THE DETAIL REFERENCED

DRAINS

- AD AREA DRAIN
- FD FLOOR DRAIN
- ORD OVERFLOW ROOF DRAIN
- RD ROOF DRAIN
- GD GARAGE DRAIN
- FCO FLOOR CLEAN OUT
- FS FLOOR SINK DRAIN
- TD TRENCH DRAIN
- OSD OPEN SITE DRAIN
- FUNNEL FLOOR DRAIN

MISCELLANEOUS

- HORIZONTAL CLEANOUT
- WALL HYDRANT
- HOSE BIBB
- GAS METER
- WATER METER
- WATER FILTER
- VACUUM BREAKER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- TRAP PRIMER
- [illegible]
- [illegible]

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

GENERAL NOTES

PIPE REPRESENTATION: [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

DEMOLITION KEY NOTES

1. [illegible]
2. ALL EXISTING [illegible] SHALL BE DEMOLISHED AND REMOVED [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. EXISTING EXHAUST [illegible] NEW WORK PLAN.

VALVES AND ACCESSORIES

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE 1013)
- BALL VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE BACKFLOW PREVENTER (ASSE 1015 1048)
- SOLENOID VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- PLUG VALVE
- BALANCING VALVE
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTER [illegible]
- BACKWATER VALVE
- PUMP
- WATER HAMMER ARRESTOR (W - PDI SIZE)
- PRESSURE GAUGE
- THERMOMETER GAUGE
- SOLENOID VALVE
- STRAINER

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN
- SHUT-OFF VALVE IN RISER

DESIGN CRITERIA

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL PLUMBING CODE
- [illegible] INTERNATIONAL MECHANICAL CODE
- [illegible] INTERNATIONAL FUEL GAS CODE
- [illegible] DISTRICT OF COLUMBIA AMENDMENTS
- [illegible] IECC
- [illegible] DCMA

PLUMBING SHEET LIST

SHEET #	[illegible]	TITLE
[illegible]	[illegible]	[illegible]

KEY PLAN

ISTUDIO
architecture design planning
1811 Connecticut Ave #200 Washington DC 20009
istudioarchitects.com T:202.798.2037

DMV INSPECTION STATION
15001
1001 Half Street, SW
Washington, DC 20024

PERMIT SET

REVISIONS

22 JUNE 2015
PERMIT SET

GENERAL NOTES, DEMOLITION, ABBREVIATIONS, SERVICE CTR

MD0021

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]
11. MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES, SET AT 105 DEGREES F.
12. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL [illegible]
13. [illegible]
14. [illegible]
15. [illegible] ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
16. [illegible]
17. [illegible]
18. [illegible]
19. [illegible]
20. ALL PIPING SHALL BE HUNG, FIRMLY ANCHORED AND SUPPORTED IN ACCORDANCE WITH MSS SP-58 MSS SP-69.
21. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWN STREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
22. [illegible]
23. [illegible]
24. [illegible]
25. [illegible]
26. [illegible]
27. [illegible]
28. [illegible]
29. [illegible]
30. [illegible] OTHERWISE NOTED.
31. PROVIDE PRODUCTS AND FIXTURES AS SPECIFIED OR EQUIVALENT.
32. [illegible] WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
33. [illegible]

GENERAL PLUMBING DEMOLITION NOTES

1. [illegible]
2. [illegible] IN SUCH A MANNER THAT WILL NOT DAMAGE [illegible]
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE [illegible] SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV	[illegible]
ARV	[illegible]
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AHCI	ARCHITECT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERING
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACKWATER VALVE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUTS
CONT	CONTINUATION
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DMR	[illegible]
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
E	EXISTING
EA	EACH
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
F	[illegible]
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
FM	[illegible]
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HPCW	HIGH PRESSURE COLD WATER
HWSH	HOT WATER STORAGE HEATER
IN	INCH
INV	INVERT
KW	KILOWATT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OSD	OPEN SITE DRAIN
P	PUMP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
REF	REFRIGERATOR
RD	ROOF DRAIN
RH	ROOF HYDRANT
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
RWC	RAIN WATER CONDUCTOR
SA	SHOCK ABSORBER
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
ST	STORM WATER
STRUC	STRUCTURAL
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VENT PIPE
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE:
ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING SYMBOLS

GENERAL NOTES

[illegible]

DEMOLITION KEY NOTES

[illegible]

ANNOTATIONS

- DOMESTIC WATER RISER DESIGNATION
- SANITARY WASTE RISER DESIGNATION
- STORM RISER DESIGNATION
- GREEN STORM RISER DESIGNATION
- VENT RISER DESIGNATION
- GAS RISER DESIGNATION
- EQUIPMENT DESIGNATION
- REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION
- PIPE SIZE
- PIPE SIZE/NOTE

DETAIL ANNOTATIONS

- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- WHERE THE DETAIL REFERENCED

DRAINS

- AD — AREA DRAIN
- FD — FLOOR DRAIN
- ORD — OVER FLOW ROOF DRAIN
- RD — ROOF DRAIN
- GD — GARAGE DRAIN
- FCO — FLOOR CLEAN OUT
- FS — FLOOR SINK DRAIN
- TD — TRENCH DRAIN
- OSD — OPEN SITE DRAIN
- FUNNEL FLOOR DRAIN

MISCELLANEOUS

- HCO — HORIZONTAL CLEANOUT
- WH — WALL HYDRANT
- HB — HOSE BIB
- GM — GAS METER
- WATER METER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- TRAP PRIMER

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

PIPE VALVES AND ACCESSORIES

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE 1013)
- BALL VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE BACKFLOW PREVENTER (ASSE 1015 1048)
- SOLENOID VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- PLUG VALVE
- BALANCING VALVE
- BACK WATER VALVE
- PUMP
- WATER HAMMER ARRESTOR (A – PDI SIZE)
- PRESSURE GAUGE
- THERMOMETER GAUGE
- STRAINER

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN

DESIGN CRITERIA

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL PLUMBING CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2012 DISTRICT OF COLUMBIA AMENDMENTS
- 2012 IFCC
- 2009 DCMA

PIPE INSULATION SCHEDULE

INSULATION TYPE	INSULATION R/IN	DOMESTIC COLD WATER		DOMESTIC HOT WATER		STORM WATER PIPING	OVERFLOW DRAIN	EXPOSED DRAIN AND SUPPLIES FOR ADA FIXTURES	[illegible]
		[illegible]	[illegible]	1/2" THROUGH 1" AND SMALLER	1-1/2" INCH AND LARGER				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FLEXIBLE ELASTOMERIC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM LENGTH OF CW & HWR PIPE OR TUBE FROM SOURCE OF HOT / TEMPERED WATER

NOMINAL PIPE SIZE (INCH)	SYSTEM WITHOUT A CIRCULATION LOOP OR HEAT TRACED LINE (FEET)	SYSTEM WITH A CIRCULATION LOOP OR HEAT TRACED LINE (FEET)	LAVATORY FAUCETS - PUBLIC (METERING AND NON-METERING) (FEET)
1/4	[illegible]	[illegible]	[illegible]
5/16	[illegible]	[illegible]	[illegible]
3/8	[illegible]	[illegible]	[illegible]
1/2	[illegible]	[illegible]	[illegible]
5/8	[illegible]	[illegible]	[illegible]
3/4	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]
1-1/4	[illegible]	[illegible]	[illegible]
1-1/2	[illegible]	[illegible]	[illegible]
2 OR LARGER	[illegible]	[illegible]	[illegible]

* THE FLOW RATE FOR 1/4 INCH SIZE PIPE OR TUBE IS LIMITED TO [illegible]

1 / MD103.1 DEMOLITION WORK ROOF PLAN

SCALE: [illegible]

KEY PLAN

ISTUDIO architecture design planning
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ISTUDIOarchitects.com T:202.758.2037

DMV INSPECTION STATION
15001
1001 Half Street, SW
Washington, DC 20024

PERMIT SET

REVISIONS

22 JUNE 2015

PERMIT SET

GENERAL NOTES, SYMBOLS, ABBREVIATIONS PLAN

MD0031

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REVISIONS

22 JUNE 2015
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GENERAL NOTES, ABBREVIATIONS SERVICE CTR

M002.1

PIPE INSULATION SCHEDULE

PIPING SYSTEM TYPES

NEW WORK CUSTOMER SERVICE CENTER - LEVEL 1

NEW WORK CUSTOMER SERVICE CENTER - LEVEL 2

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. [illegible]
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE FIXTURES, ETC TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT [illegible]

16. ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.

18. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
19. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM, INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.

21. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWN STREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
22. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS.
23. VALVES AND FITTINGS SHALL BE OF [illegible] ARE LOCATED, UNLESS OTHERWISE [illegible]

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BLW	BELOW
DIJ	[illegible]
E	[illegible]
EA	[illegible]
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HPCW	HIGH PRESSURE COLD WATER
KW	KILOWATT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OSD	OPEN SITE DRAIN
P	PUMP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH

PLUMBING SYMBOLS

ANNOTATIONS

- DOMESTIC WATER RISER DESIGNATION
- SANITARY WATER RISER DESIGNATION
- STORM RISER DESIGNATION

DETAIL ANNOTATIONS

DRAINS

- AD AREA DRAIN
- FD FLOOR DRAIN
- ORD OVERFLOW ROOF DRAIN
- RD ROOF DRAIN
- GD GARAGE DRAIN
- FCO FLOOR CLEANOUT
- FS FLOOR SINK DRAIN
- TD TRENCH DRAIN
- OSD OPEN SITE DRAIN
- FUNNEL FLOOR DRAIN

MISCELLANEOUS

- HCO HORIZONTAL CLEANOUT

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

GENERAL NOTES

PIPE REPRESENTATION

KEY NOTES

1. CONTRACTOR TO REUSE EXISTING THERMOSTATS AND SHALL FIELD COORDINATE RELOCATION OF THERMOSTATS WITH NEW WALL LOCATIONS.
2. CONTRACTOR TO CHECK AND RE-BALANCE ALL VOLUME DAMPER TO THE NEW CFMS SHOWN ON THE DRAWING (TYPICAL).

NEW SAN
NEW VENT

PIPE VALVES AND ACCESSORIES

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE 1013)
- BALL VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- BALANCING VALVE
- BACK WATER VALVE
- PRESSURE GAUGE

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- SHUT-OFF VALVE IN RISER

DESIGN CRITERIA

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2012 DISTRICT OF COLUMBIA AMENDMENTS
- 2012 IECC
- 2012 DCMA

PLUMBING SHEET LIST

KEY PLAN

ISTUDIO

architecture design planning

1811 Connecticut Ave #200 Washington DC 20009
ISTUDIOarchitects.com T:202.797.3037

PIPE INSULATION SCHEDULE

PIPING SYSTEM TYPES

INSULATION TYPE	DOMESTIC COLD WATER	DOMESTIC HOT WATER	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM LENGTH OF CW & HW PIPE FIXTURE FROM SOURCE OF HOT / TEMPERED WATER

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. [illegible]
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE FIXTURES, ETC TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURERS DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]
11. MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES. SET AT 105 DEGREES F.
12. [illegible]
13. [illegible]
14. [illegible]
15. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
16. [illegible]
17. [illegible]
18. [illegible]
19. [illegible]
20. [illegible] ACCORDANCE WITH MSS SP-58 MSS SP-69.
21. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWN STREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
22. [illegible]
23. [illegible]
24. [illegible] IN CONTRACT OR HEREIN [illegible]
25. [illegible]
26. DOMESTIC WATER SHALL BE SLOPED TO DRAIN POINTS.
27. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A [illegible]
28. [illegible]
29. [illegible]
30. [illegible] OTHERWISE NOTED.
31. PROVIDE PRODUCTS AND FIXTURES AS SPECIFIED OR EQUIVALENT.
32. [illegible]
33. [illegible]

GENERAL PLUMBING DEMOLITION NOTES

1. [illegible]
2. [illegible]
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. [illegible] OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. [illegible] SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUTS
CONT	CONTINUATION
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DMR	DISTRIBUTED METER ROOM
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
E	EXISTING
EA	EACH
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
F	WATER FILTER
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
FM	FORCED MAIN
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
KW	KILOWATT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OSD	OPEN SITE DRAIN
P	PUMP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
REF	REFRIGERATOR
RD	ROOF DRAIN
RH	ROOF HYDRANT
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
RWC	RAIN WATER CONDUCTOR
SA	SHOCK ABSORBER
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
ST	STORM WATER
STRUC	STRUCTURAL
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VENT PIPE
VTR	VENT THRU ROOF
W	WATT
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING SYMBOLS

ANNOTATIONS

- GAS RISER DESIGNATION
- REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION

DETAIL ANNOTATIONS

- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- WHERE THE DETAIL IS DRAWN
- WHERE THE DETAIL REFERENCED

DRAINS

- AD — AREA DRAIN
- FD — FLOOR DRAIN
- ORD — OVER FLOW ROOF DRAIN
- RD — ROOF DRAIN
- GD — GARAGE DRAIN
- FCO — FLOOR CLEAN OUT
- FS — FLOOR SINK DRAIN
- TD — TRENCH DRAIN
- OSD — OPEN SITE DRAIN
- FUNNEL FLOOR DRAIN

MISCELLANEOUS

- HCO — HORIZONTAL CLEANOUT
- TRAP PRIMER

GENERAL NOTES

[illegible]

NEW GAS

KEY NOTES

[illegible]

- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- BALANCING VALVE
- BACK WATER VALVE
- PUMP
- PRESSURE GAUGE
- THERMOMETER GAUGE

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN
- SHUT-OFF VALVE IN RISER

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

DESIGN CRITERIA

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL PLUMBING CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2012 DISTRICT OF COLUMBIA AMENDMENTS
- 2012 IECC
- 2012 DCMA

PLUMBING SHEET LIST

[illegible]

KEY PLAN

1 ROOF PLAN (M103.1)

DMV INSPECTION STATION
15001
1001 Half Street, SW
Washington, DC 20024

PERMIT SET

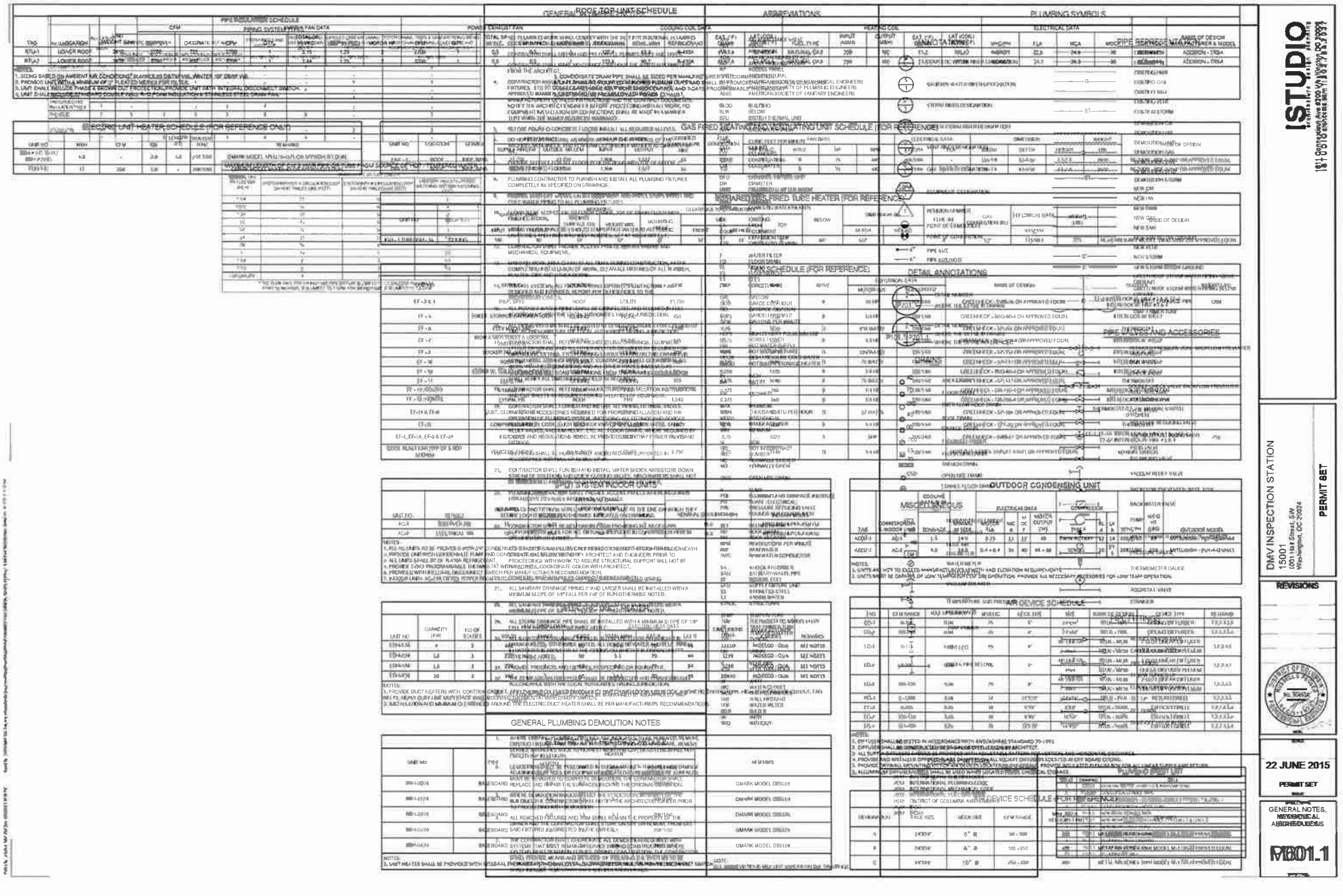
REVISIONS

22 JUNE 2015

PERMIT SET

GENERAL NOTES, [illegible] ABBREVIATIONS

M003.1



ABBREVIATIONS

EAT (EF)	ENTERING AIR TEMPERATURE (EXHAUST FAN)
LAT (CUH)	LEAVING AIR TEMPERATURE (UNIT HEATER)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
DWG	DRAWING
EF	EXHAUST FAN
EXIST	EXISTING
FD	FLOOR DRAIN
FLR	FLOOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
MAU	MAKE-UP AIR UNIT
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
RA	RETURN AIR
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SP	STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VIF	VERIFY IN FIELD
WC	WATER COLUMN
WP	WEATHERPROOF

PLUMBING SYMBOLS

ELECTRICAL DATA

PIPE REPRESENTATION

NAME OF DESIGN

DETAIL ANNOTATIONS

PIPE VALVES AND ACCESSORIES

ROOF TOP UNIT SCHEDULE

GAS FIRED HEATING AND VENTILATING UNIT SCHEDULE (FOR REFERENCE)

INFRARED GAS FIRED TUBE HEATER (FOR REFERENCE)

ELECTRIC UNIT HEATER SCHEDULE (FOR REFERENCE ONLY)

FAN SCHEDULE (FOR REFERENCE)

SPLIT SYSTEM INDOOR UNITS

OUTDOOR CONDENSING UNIT

AIR DEVICE SCHEDULE

AIR DEVICE SCHEDULE (FOR THIS PROJECT)

GENERAL PLUMBING DEMOLITION NOTES

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22 JUNE 2015

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GENERAL NOTES, MECHANICAL ABBREVIATIONS

M001.1

GENERAL PLUMBING NOTES

8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETELY AS SPECIFIED ON DRAWINGS.
10. FINISHED FLOOR.
11. MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES. SET AT 105 DEGREES F.
12. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.
17. CONTRACTOR SHALL REFER TO [illegible] AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
20. ALL PIPING SHALL BE HUNG, FIRMLY ANCHORED AND SUPPORTED IN ACCORDANCE WITH MSS SP-58 MSS SP-69.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
27. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
28. ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN OTHERWISE NOTED.

GENERAL PLUMBING DEMOLITION NOTES

[illegible] DUCT FOR EASY SERVICE. (HANDLE IS [illegible]) REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.

ABBREVIATIONS

AAV	[illegible]
ARV	[illegible]
AD	[illegible]
ASME	[illegible]
ASPE	[illegible]
ASSE	[illegible]
BLDG	BUILDING
BLW	[illegible]
BTU	[illegible]
BTUH	[illegible]
BWV	[illegible]
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUTS
CONT	[illegible]
CW	[illegible]
E	EXISTING
EA	EACH
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
F	WATER FILTER
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
GPM	GALLONS PER MINUTE
IN	INCH
INV	INVERT
KW	KILOWATT
N	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OSD	OPEN SITE DRAIN
P	PUMP
SS	STAINLESS STEEL
ST	STORM WATER
STRUC	STRUCTURAL
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TYP	TYPICAL
V	[illegible]
VTR	[illegible]
W	[illegible]
WC	[illegible]
WCO	[illegible]
WH	WALL HYDRANT
WM	[illegible]
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING SYMBOLS

ANNOTATIONS

REVISION NUMBER

DETAIL ANNOTATIONS

DETAIL NUMBER

WHERE THE DETAIL IS DRAWN

WHERE THE DETAIL RECONNECTIONS FOR DUCTS SHALL BE 3" JOINT OR DUCTMATE. SLEEVE TO DUCT.

DRAINS

AREA DRAIN
FLOOR DRAIN
OVERFLOW ROOF DRAIN

MISCELLANEOUS

RELIEF VALVE
TRAP PRIMER
DIRT LEG
BREAK PIPE BELOW

PIPE REPRESENTATION

NEW STORM BELOW GROUND
GREEN ROOF STORM WATER PIPING BELOW GROUND

PIPE VALVES AND ACCESSORIES

PIPE FITTINGS

REDUCER/INCREASER
CAPPED CONNECTION
PIPE UNION
ELBOW TURNED UP
ELBOW TURNED DOWN

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

DESIGN CRITERIA

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 DISTRICT OF COLUMBIA AMENDMENTS
2012 ICC
2012 DCMA

Details

3 — M701.1 VOLUME DAMPER
SCALE: NOT TO SCALE

NOTES:
2. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION AND SEAL TO EFFECT VAPOR BARRIER.

CONDENSATE DRAIN TRAP
SCALE: NOT TO SCALE

WALL MOUNTED FIRE DAMPER

ROOF TOP UNIT (RTU)

10 — M701.1 CONNECTIONS BETWEEN MAIN DUCT AND AIR DEVICES
SCALE: NOT TO SCALE

NOTES:
1. TYPICAL CONNECTION BETWEEN DUCT AND CEILING OR SLOT DIFFUSERS AND SINGLE OR DOUBLE SIDED SADDLE BOOT LIGHT FIXTURES AS SHOW ON PLANS OR INDICATED IN SCHEDULE.
2. ONLY ONE 90° TURN ALLOWED IN FLEX DUCT WITH R/D > 1.5. DUCT MUST BE PROPERLY SUPPORTED TO PREVENT SAGGING.
3. IF ADDITIONAL 90° TURNS ARE REQUIRED TO CONNECT OUTLET TO DIFFUSER, EXTEND TAP AND PROVIDE EXTERNALLY INSULATED STOVE PIPE ELBOWS AS REQUIRED.

5 — M701.1 TYPICAL DUCT HANGERS & SUPPORTS
SCALE: NOT TO SCALE

2 — M701.1 FIRE DAMPER AT FLOOR
SCALE: NOT TO SCALE

11 — M701.1 OUTSIDE DUCT SUPPORT
SCALE: NOT TO SCALE

8 — M701.1 SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER
SCALE: NOT TO SCALE

TYPICAL DUCT BRANCH DETAIL
SCALE: NOT TO SCALE

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

3 — M701.1 FLEXIBLE RECTANGULAR CONNECTION
SCALE: NOT TO SCALE

PLUMBING SHEET LIST

ISTUDIO architecture design planning
1811 Connecticut Ave #200 Washington, DC 20009
ISTUDIOarchitects.com | 202.797.2037

DMV INSPECTION STATION
15001
1001 Half Street, SW
Washington, DC 20024

PERMIT SET

REVISIONS

22 JUNE 2015
PERMIT SET

GENERAL NOTES, SYMBOLS, ABBREVIATIONS

P001.1

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architecture design planning

1811 Connecticut Ave #200 Washington DC 20009 | istudio.com | 202.797.8.2037

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION
2. [illegible]
3. [illegible]
4. [illegible]
5. BEFORE POURING CONCRETE FLOORS INSTALL ALL REQUIRED SLEEVES.
6. DO NOT CUT STRUCTURAL [illegible]
7. [illegible] WITH TOP OF SLEEVE 2" [illegible]
8. [illegible]
9. [illegible]
10. FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
11. [illegible]
12. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.
13. [illegible]
14. [illegible] DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
15. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
16. ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
17. [illegible]
18. [illegible]
19. [illegible]
20. [illegible]
21. [illegible]
22. [illegible] PROVIDE ACCESS PANELS WHERE REQUIRED [illegible]
23. [illegible]
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
25. [illegible]
26. [illegible]
27. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
28. ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
29. ALL STORM DRAINAGE PIPE SHALL [illegible] FALL PER 1'-0" OF RUN OTHERWISE NOTED.
30. ALL ILLUSTRATED DRAINAGE PIPING IS BELOW THE FLOOR ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED. ALL DOMESTIC WATER AND VENT PIPING ILLUSTRATED IS ABOVE OR AT THE CEILING ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED.
31. [illegible]
32. [illegible]
33. AT FLOOR DRAIN TRAP SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER.

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION. THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. [illegible]

ABBREVIATIONS

CAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
GPM	GALLONS PER MINUTE
REF	REFRIGERATOR
RD	ROOF DRAIN
RH	ROOF HYDRANT
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
	RAIN WATER CONDUCTOR
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
ST	STORM WATER
STRUC	STRUCTURAL

PLUMBING SYMBOLS

ANNOTATIONS

VENT RISER DESIGNATION

GAS RISER DESIGNATION

REVISION NUMBER

POINT OF DEMOLITION

POINT OF CONNECTION

DETAIL ANNOTATIONS

DRAINS

AD	
FD	FLOOR DRAIN
ORD	OVER FLOW ROOF DRAIN
RD	ROOF DRAIN
GD	GARAGE DRAIN
FCO	FLOOR CLEAN OUT

MISCELLANEOUS

CO	HORIZONTAL CLEANOUT
WH	WATER HYDRANT
HB	HOSE BIB
GM	GAS METER
	VACUUM BREAKER
	TEMPERATURE AND PRESSURE RELIEF VALVE
	TRAP PRIMER

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

LAY-IN AND SLOT TYPE CEILING DIFFUSERS DETAIL

PIPE VALVES AND ACCESSORIES

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

CHECK VALVE

GATE VALVE

VIBRATION ISOLATION WITH NEOPRENE PAD

PIPE FITTINGS

ELECTRIC DUCT HEATER

CONCENTRIC VENT ROOF

CEILING MOUNTED EXHAUST FAN

DESIGN CRITERIA

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FUEL GAS CODE
2013 DISTRICT OF COLUMBIA [illegible]
NEC
OSHA

PIPE INSULATION SCHEDULE

[illegible]

MAXIMUM LENGTH OF CW & HWR PIPE OR TUBE FROM SOURCE OF HOT / TEMPERED WATER

[illegible]

NO INSULATION

STRAIGHT SECTION FLEXIBLE DUCT SUPPORT

ROOF TOP UNIT

TURNING VANES

DMV INSPECTION STATION
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1001 Half Street, SW
Washington, DC 20024

PERMIT SET

REVISIONS

22 JUNE 2015

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GENERAL NOTES, MECHANICAL ABBREVIATIONS

M002.1

PIPE INSULATION SCHEDULE

[illegible]

EXHAUST FAN CONTROL DIAGRAM (CONTINUOUS OPERATION)

[illegible]

NOT TO SCALE

EXHAUST FAN SHALL BE ENERGIZED WHEN SPACE TEMPERATURE REACHES 85°F AND SHALL CYCLE TO MAINTAIN THIS TEMPERATURE SETTING. DAMPERS SHALL CLOSE WHEN FANS ARE DE-ENERGIZED. TSTAT SHALL BE MOUNTED AWAY FROM ANY [illegible]

EXHAUST FAN CONTROL DIAGRAM (THERMOSTAT CONTROLLED)

CONTRACTOR SHALL COORDINATE COMPLETE CONTROLS INTEGRATION WITH EQUIPMENT MANUFACTURERS PRIOR TO EQUIPMENT BEING RELEASED. DIAGRAM IS SINGLE LINE AND DOES NOT REPRESENT ACTUAL NUMBER OF POINTS OR THE NUMBER OF CONDUCTORS. CONTRACTOR IS THE CONTROLS INTEGRATOR AND SHALL SUPPLY ALL PARTS, LABOR, PROGRAMS, AND INTELLECTUAL PROPERTY WHICH MAY NOT HAVE BEEN SUPPLIED BY THE MANUFACTURER.

NOT TO SCALE

EXHAUST FAN SHALL BE ENERGIZED WITH WALL SWITCH ON AND OFF POSITION, DAMPERS SHALL CLOSE WHEN FAN DE-ENERGIZES.

EXHAUST FAN CONTROL DIAGRAM (WALL SWITCH)

CONTRACTOR SHALL COORDINATE COMPLETE CONTROLS INTEGRATION WITH EQUIPMENT MANUFACTURERS PRIOR TO EQUIPMENT BEING RELEASED. DIAGRAM IS SINGLE LINE AND DOES NOT REPRESENT ACTUAL NUMBER OF POINTS OR THE NUMBER OF CONDUCTORS. CONTRACTOR IS THE CONTROLS INTEGRATOR AND SHALL SUPPLY ALL PARTS, LABOR, PROGRAMS, AND INTELLECTUAL PROPERTY WHICH MAY NOT HAVE BEEN SUPPLIED BY THE MANUFACTURER.

NOT TO SCALE

[illegible]

ELECTRIC DUCT HEATER

CONTRACTOR SHALL COORDINATE COMPLETE CONTROLS INTEGRATION WITH EQUIPMENT MANUFACTURERS PRIOR TO EQUIPMENT BEING RELEASED. DIAGRAM IS SINGLE LINE AND DOES NOT REPRESENT ACTUAL NUMBER OF POINTS OR THE NUMBER OF CONDUCTORS. CONTRACTOR IS THE CONTROLS INTEGRATOR AND SHALL SUPPLY ALL PARTS, LABOR, PROGRAMS, AND INTELLECTUAL PROPERTY WHICH MAY NOT HAVE BEEN SUPPLIED BY THE MANUFACTURER.

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. [illegible]
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. [illegible]
5. BEFORE POURING CONCRETE FLOORS INSTALL ALL REQUIRED SLEEVES.
6. [illegible]
7. PROVIDE SLEEVES FOR ALL FLOOR PENETRATIONS WITH TOP OF SLEEVE [illegible] ABOVE FINISHED FLOOR.
8. [illegible] COMPLETELY AS SPECIFIED ON DRAWINGS.
9. [illegible]
10. FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS, TOP OF [illegible] FINISHED FLOOR.
11. [illegible]
12. [illegible]
13. [illegible]
14. [illegible]
15. [illegible]
16. ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
17. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS, EQUIPMENT LAYOUT DRAWINGS, AND ALL OTHER RELATED DRAWINGS AS REQUIRED FOR DIMENSIONS, DETAILS, ETC. PLUMBING LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL COORDINATE ALL WORK WITH FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED AS REQUIRED. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AS REQUIRED.
18. CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
19. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM. (INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.
20. [illegible]
21. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWN STREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
22. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED FOR ACCESS TO VALVES IN CEILINGS AND WALLS.
23. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT DRAWINGS SPECIFIED OR OTHERWISE.
25. CONTRACTOR SHALL SLEEVE ALL PIPING CROSSING THROUGH OR UNDERNEATH STRUCTURAL MEMBERS, NOTIFY ARCHITECT AND ENGINEERS PRIOR TO PROCEEDINGS WITH WORK TO ASSURE STRUCTURAL SUPPORT WILL NOT BE AFFECTED.
26. DOMESTIC WATER SHALL BE SLOPED TO DRAIN POINTS.
27. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
28. [illegible]
29. ALL STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
30. [illegible] OTHERWISE NOTED.
31. [illegible]
32. THE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
33. AT FLOOR DRAIN TRAP SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER.

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
[illegible]	[illegible]
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
F	WATER FILTER
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
FM	FORCED MAIN
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
[illegible]	[illegible]
MBH	THOUSAND BTU PER HOUR
[illegible]	[illegible]
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
V	[illegible]
VTR	[illegible] THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE:
ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

ROOF TOP UNITS (RTU) CONTROL DIAGRAM

[illegible]

4. HEATING MODE [illegible]
5. ECONOMIZER [illegible]
6. THE [illegible]
7. FILTER [illegible]
8. EMERGENCY [illegible]

PLUMBING SYMBOLS

ANNOTATIONS

DETAIL ANNOTATIONS

	NEW GAS
	NEW SAN
	NEW SAN BELOW GROUND
	NEW VENT
	NEW STORM
	NEW STORM BELOW GROUND
	[illegible] GROUND
	GREEN ROOF STORM WATER PIPING BELOW GROUND
	INDIRECT DRAINAGE PIPE
	TRAP PRIMER TUBE

PIPE VALVES AND ACCESSORIES

	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	CHECK VALVE
	PUMP
	[illegible]
	PRESSURE GAUGE
	THERMOMETER GAUGE
	[illegible]
	STRAINER

PIPE FITTINGS

	REDUCER/INCREASER
	CAPPED CONNECTION
	PIPE UNION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE UP
	TEE DOWN
	[illegible]

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

GENERAL REQUIREMENTS

[illegible]

DESIGN CRITERIA

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL PLUMBING CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2012 DISTRICT OF COLUMBIA [illegible]
- 2012 IECC
- 2012 DCMA

PLUMBING SHEET LIST

[illegible]

ISTUDIO
architecture design planning
1811 Connecticut Ave #300 Washington DC 20009
[illegible]

DMV INSPECTION STATION
15001
1001 Half Street, SW
Washington, DC 20024

PERMIT SET

REVISIONS

22 JUNE 2015

PERMIT SET

GENERAL NOTES, [illegible] ABBREVIATIONS

P801.1

PIPE INSULATION SCHEDULE

INSULATION TYPE	PIPING SYSTEM TYPES							
	DOMESTIC COLD WATER		DOMESTIC HOT WATER		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM LENGTH OF CW & HW PIPE OR TUBE FROM SOURCE OF HOT / TEMPERED WATER

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. [illegible]
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT [illegible] FROM THE ARCHITECT.
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible] ABOVE FINISHED FLOOR.
8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL [illegible] COMPLETELY AS SPECIFIED ON DRAWINGS.
9. PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND [illegible] COLD WATER PIPING TO ALL PLUMBING FIXTURES.
10. [illegible] FINISHED FLOOR.
11. [illegible]
12. CONTRACTOR SHALL PROVIDE ACCESS [illegible] MECHANICAL EQUIPMENT.
13. [illegible]
14. TEST ALL SYSTEMS. ALL [illegible] DESIGNED AND INTENDED. REPORT ANY [illegible] ARCHITECT/ENGINEER.
15. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
16. ALL PIPING SYSTEMS SHALL BE [illegible]
17. [illegible]
18. [illegible]
19. [illegible] RELIEF VALVES, VACUUM RELIEF, ETC. [illegible] CODES AND REGULATIONS SHALL BE [illegible]
20. [illegible]
21. [illegible]
22. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS [illegible] FOR ACCESS TO VALVES IN CEILINGS AND WALLS.
23. [illegible]
24. [illegible]
25. [illegible]
26. DOMESTIC WATER SHALL BE SLOPED TO DRAIN POINTS.
27. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED [illegible] MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
28. ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
29. [illegible]
30. [illegible] ILLUSTRATED IS ABOVE OR AT THE CEILING ON WHICH [illegible] OTHERWISE NOTED.
31. [illegible]
32. THE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
33. [illegible]

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. [illegible] OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
5. [illegible] SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV [illegible]
HDPE HIGH DENSITY POLYETHYLENE
HP HORSE POWER
VTR VENT THRU ROOF
W WASTE
WTR WATER
W/O WITHOUT

NOTE:
ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

ROOF TOP UNITS (RTU-1) CONTROL DIAGRAM

PLUMBING SYMBOLS

ANNOTATIONS
DOMESTIC WATER RISER DESIGNATION
DETAIL ANNOTATIONS

MISCELLANEOUS
HOSE BIB
WATER METER
VACUUM BREAKER
TEMPERATURE AND PRESSURE

PIPE REPRESENTATION
DEMOLITION CW
DEMOLITION GAS
DEMOLITION STORM
TRAP PRIMER LINE

PIPE VALVES AND ACCESSORIES
REDUCED PRESSURE ZONE BACKFLOW PREVENTER
CHECK VALVE
AQUASTAT VALVE

PIPE FITTINGS
REDUCER/INCREASER
CAPPED CONNECTION
PIPE UNION
ELBOW TURNED UP
ELBOW TURNED DOWN
TEE UP
TEE DOWN
SHUT-OFF VALVE IN RISER

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

DESIGN CRITERIA

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 DISTRICT OF COLUMBIA AMENDMENTS
2012 IECC
2012 DCMA

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Washington, DC 20024

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REVISIONS

22 JUNE 2015
PERMIT SET

GENERAL NOTES, [illegible] ABBREVIATIONS

P-001.1

PIPE INSULATION SCHEDULE

PIPING SYSTEM TYPES

INSULATION TYPE	INSULATION SIZE (INCH)	DOMESTIC COLD WATER		DOMESTIC HOT WATER		STORMWATER AND OVERFLOW	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MAXIMUM LENGTH OF CW & HWR PIPE OR TUBE FROM SOURCE OF HOT / TEMPERED WATER

NOMINAL PIPE SIZE (INCH)	SYSTEM WITHOUT A CIRCULATION LOOP OR HEAT TRACED LINE (FEET)	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

GENERAL PLUMBING NOTES

1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING CODE AND THE AUTHORITY HAVING JURISDICTION.
2. [illegible]
3. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
4. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE, FIXTURES, ETC TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURERS DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURERS WARRANTY.
5. [illegible]
6. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER, AND PERFORM CUTTING IN A MANNER AS DIRECTED BY A/E.
7. PROVIDE SLEEVES FOR ALL FLOOR PENETRATIONS WITH TOP OF SLEEVE 2" ABOVE FINISHED FLOOR.
8. [illegible] COMPLETELY AS SPECIFIED ON DRAWINGS.
9. PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND ANGLE STOPS IN HOT AND COLD WATER PIPING TO ALL PLUMBING FIXTURES.
10. FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS, TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
11. MIXING VALVES SHALL BE USED TO TEMPER HOT WATER AT ALL PUBLIC LAVATORIES AND HAND WASHING FACILITIES, SET AT 105 DEGREES F.
12. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.
13. MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATION OF WORK, CLEAN ALL FIXTURES OF ALL RUBBISH [illegible]
14. [illegible] DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
15. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
16. ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
17. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS, EQUIPMENT LAYOUT DRAWINGS, AND ALL OTHER RELATED DRAWINGS AS REQUIRED FOR DIMENSIONS, DETAILS, ETC. PLUMBING LAYOUT SHOWN ON THIS DRAWING IS FOR GENERAL ARRANGEMENT ONLY. CONTRACTOR SHALL COORDINATE ALL WORK WITH FIELD CONDITIONS AND ALL OTHER TRADES INVOLVED AS REQUIRED. DO NOT SCALE DIMENSIONS FROM THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AS REQUIRED.
18. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND CUT SHEETS AS REQUIRED FOR INSTALLATION OF EQUIPMENT.
19. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING, FITTINGS, VALVES, PARTS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION AND OPERATION OF PLUMBING SYSTEM, INCLUDING ALL FITTINGS AND DEVICES REQUIRED BY CODE, SUCH AS CHECK VALVES, VACUUM BREAKERS, SAFETY RELIEF VALVES, VACUUM RELIEF, ETC. ALL FLOOR DRAINS, WHERE REQUIRED BY CODES AND REGULATIONS, SHALL BE PROVIDED WITH TRAP PRIMER VALVE AND FITTINGS.
20. ALL PIPING SHALL BE [illegible] AND SUPPORTED IN ACCORDANCE [illegible]
21. CONTRACTOR SHALL FURNISH AND INSTALL WATER SHOCK ARRESTORS DOWNSTREAM OF SOLENOID AND QUICK CLOSING VALVES. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
22. PLUMBING CONTRACTOR SHALL PROVIDE ACCESS PANELS [illegible]
23. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED UNLESS OTHERWISE INDICATED ON DRAWINGS.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
25. CONTRACTOR SHALL SLEEVE ALL PIPING CROSSING THROUGH OR UNDERNEATH STRUCTURAL MEMBERS. NOTIFY ARCHITECT AND ENGINEERS PRIOR TO PROCEEDINGS WITH WORK TO ASSURE STRUCTURAL SUPPORT WILL NOT BE AFFECTED.
26. DOMESTIC WATER PIPING SHALL BE SLOPED TO DRAIN POINTS.
27. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
28. [illegible]
29. ALL STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN OTHERWISE NOTED.
30. ALL ILLUSTRATED DRAINAGE PIPING IS BELOW THE FLOOR ON WHICH IT IS DRAWN UNLESS OTHERWISE NOTED. ALL DOMESTIC WATER AND VENT PIPING ILLUSTRATED IS ABOVE OR AT THE CEILING ON WHICH IT IS DRAWN UNLESS [illegible]
31. PROVIDE PRODUCTS AND FIXTURES AS SPECIFIED OR [illegible]
32. THE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED AND FLUSHED IN FULL ACCORDANCE WITH THE LOCAL AUTHORITIES HAVING JURISDICTION.
33. AT FLOOR DRAIN TRAP SEALS SHALL BE MAINTAINED BY AN APPROVED TRAP PRIMER.

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE [illegible]
3. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
4. ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE [illegible]
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUTS
CONT	CONTINUATION
CW	COLD WATER
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DMR	DISTRIBUTED METER ROOM
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
E	EXISTING
EA	EACH
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
F	WATER FILTER
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
FM	FORCED MAIN
GAL	GALLON
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GH	GARDEN HYDRANT
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HPCW	HIGH PRESSURE COLD WATER
HWSH	HOT WATER STORAGE/HEATER
IN	INCH
INV	INVERT
KW	KILOWATT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OSD	OPEN SITE DRAIN
P	PUMP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
REF	REFRIGERATOR
RD	ROOF DRAIN
RH	ROOF HYDRANT
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
RWC	RAIN WATER CONDUCTOR
SA	SHOCK ABSORBER
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
ST	STORM WATER
STRUC	STRUCTURAL
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VENT PIPE
VTR	VENT THRU ROOF
W	WATT
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WM	WATER METER
WTR	WATER
W	WITH
W/O	WITHOUT

NOTE:
ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING SYMBOLS

ANNOTATIONS

- DOMESTIC WATER RISER DESIGNATION
- SANITARY WASTE RISER DESIGNATION
- STORM RISER DESIGNATION
- GREEN ROOF STORM RISER DESIGNATION
- VENT RISER DESIGNATION
- GAS RISER DESIGNATION
- EQUIPMENT DESIGNATION
- REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION
- PIPE SIZE
- PIPE SIZE/NOTE

DETAIL ANNOTATIONS

- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- DETAIL NUMBER
- WHERE THE DETAIL IS DRAWN
- WHERE THE DETAIL REFERENCED

DRAINS

- AD AREA DRAIN
- FD FLOOR DRAIN
- ORD OVER FLOW ROOF DRAIN
- RD ROOF DRAIN
- GD GARAGE DRAIN
- FCO FLOOR CLEAN OUT
- FS FLOOR SINK DRAIN
- TD TRENCH DRAIN
- OSD OPEN SITE DRAIN
- FUNNEL FLOOR DRAIN

MISCELLANEOUS

- HCO HORIZONTAL CLEANOUT
- WH WALL HYDRANT
- HB HOSE BIB
- GM GAS METER
- WATER METER
- WATER HEATER
- VACCUM BREAKER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- TP TRAP PRIMER
- DIRT LEG
- [illegible]

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

PIPE REPRESENTATION

- EXISTING CW
- EXISTING HW
- EXISTING HWR
- EXISTING GAS
- EXISTING SAN
- EXISTING VENT
- EXISTING STORM
- DEMOLITION CW
- DEMOLITION HW
- DEMOLITION HWR
- DEMOLITION GAS
- DEMOLITION SAN
- DEMOLITION VENT
- DEMOLITION STORM
- NEW CW
- NEW HW
- NEW HWR
- NEW GAS
- NEW SAN
- NEW SAN BELOW GROUND
- NEW VENT
- NEW STORM
- NEW STORM BELOW GROUND
- GREEN ROOF STORM WATER PIPING ABOVE GROUND
- GREEN ROOF STORM WATER PIPING BELOW GROUND
- INDIRECT DRAINAGE PIPE
- TRAP PRIMER TUBE

PIPE VALVES AND ACCESSORIES

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE 1013)
- BALL VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE BACKFLOW PREVENTER (ASSE 1015 1048)
- SOLENOID VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- PLUG VALVE
- BALANCING VALVE
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTER (ASSE 1024)
- BACK WATER VALVE
- PUMP
- WATER HAMMER ARRESTOR (W – PDI SIZE)
- PRESSURE GAUGE
- THERMOMETER
- AQUASTAT VALVE
- STRAINER

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN
- [illegible]

DESIGN CRITERIA

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL PLUMBING CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2012 INTERNATIONAL FUEL GAS CODE
- 2013 DISTRICT OF COLUMBIA AMENDMENTS
- 2012 IECC
- 2012 DCMA

PLUMBING SHEET LIST

[illegible]	[illegible]	[illegible]

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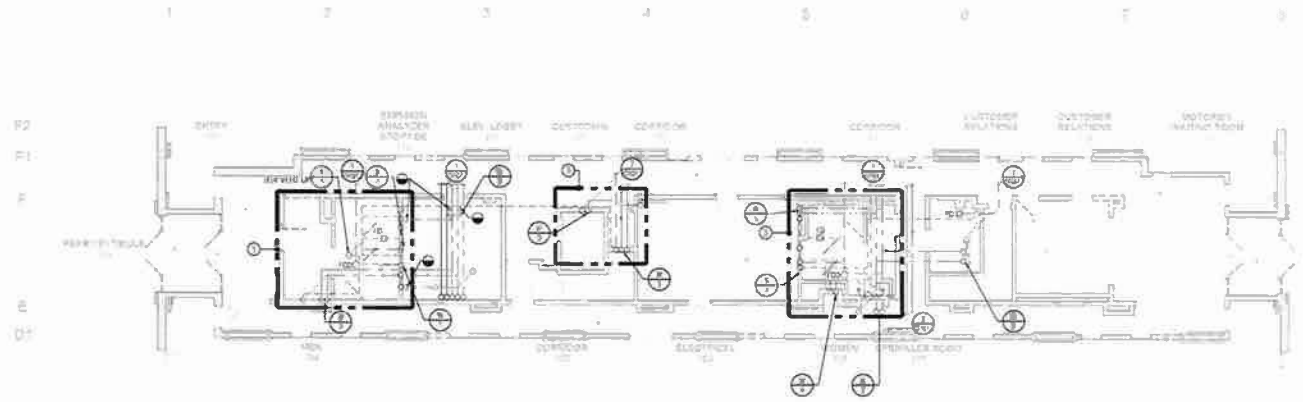
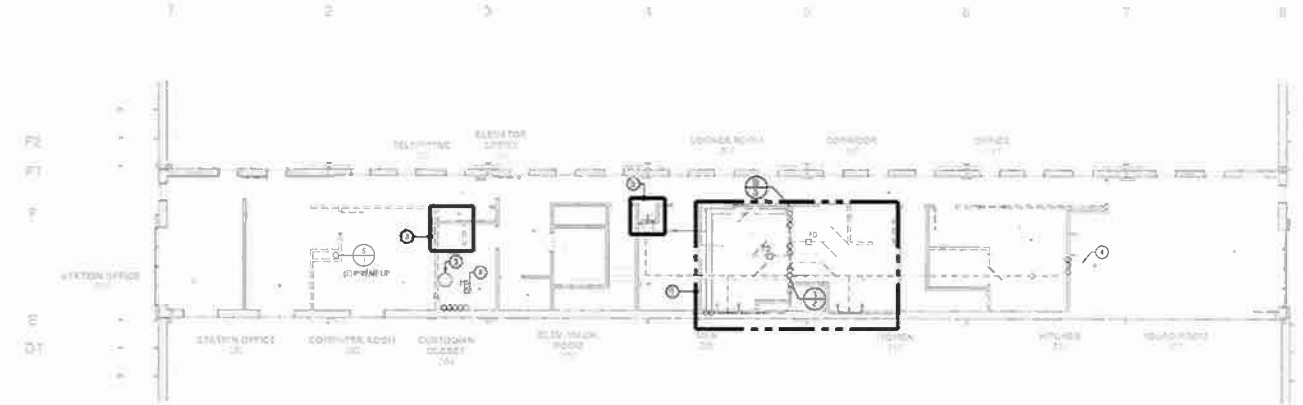
GENERAL NOTES, SYMBOLS & ABBREVIATIONS

P001.1



1 PD102.1 DEMOLITION WORK CUSTOMER SERVICE CENTER - LEVEL 1
SCALE: 1/8" = 1'-0"



8 PD102.1 DEMOLITION WORK CUSTOMER SERVICE CENTER - LEVEL 2
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. PRIOR TO ANY PLUMBING PIPING OR EQUIPMENT REMOVAL/DEMOLITION CONTRACTOR SHALL ANALYZE AND INSPECT FOR PRESENCE OF HAZARDOUS MATERIALS. ANY HAZARDOUS MATERIALS SHALL BE DOCUMENTED, AND THE OWNER/ARCHITECT NOTIFIED. ALL HAZARDOUS WASTE DISPOSALS SHALL COMPLY WITH STATE AND LOCAL REGULATIONS.
2. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL DEMOLITION INCIDENTAL TO OR REQUIRED FOR NEW AND RENOVATED CONSTRUCTION WHETHER OR NOT SPECIFICALLY NOTED AND INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   2.a. [illegible]
   3. [illegible]
4. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO THE PROCEEDING WITH DEMOLITION.
5. [illegible] NOTED OF THE FOLLOWING DRAWINGS. REMOVE ALL PIPING NOT REQUIRED FOR RENOVATION AND CAP AT NEAREST VALVE OR MAIN LINE. REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM [illegible]

DEMOLITION KEY NOTES

1. EXISTING PLUMBING FIXTURE TO BE REPLACED WITH NEW IN THIS AREA. REFER TO NEW WORK PLANS AND PLUMBING FIXTURE SCHEDULE FOR DETAILS.
2. REMOVE EXISTING PLUMBING FIXTURE IN THIS AREA, CUT AND CAP ASSOCIATED PIPING BACK TO WALL, SLAB, CEILING. COORDINATE WITH ARCHITECT/OWNER FOR DISPOSAL OR STORAGE OF FIXTURE.
3. EXISTING DOMESTIC WATER HEATER AND ASSOCIATED PIPING TO BE REMOVED.
4. EXISTING KITCHEN SINK TO RELOCATE AND REPLACED WITH NEW. REFER TO NEW WORK PLANS AND PLUMBING FIXTURE SCHEDULE FOR DETAILS.
5. [illegible]

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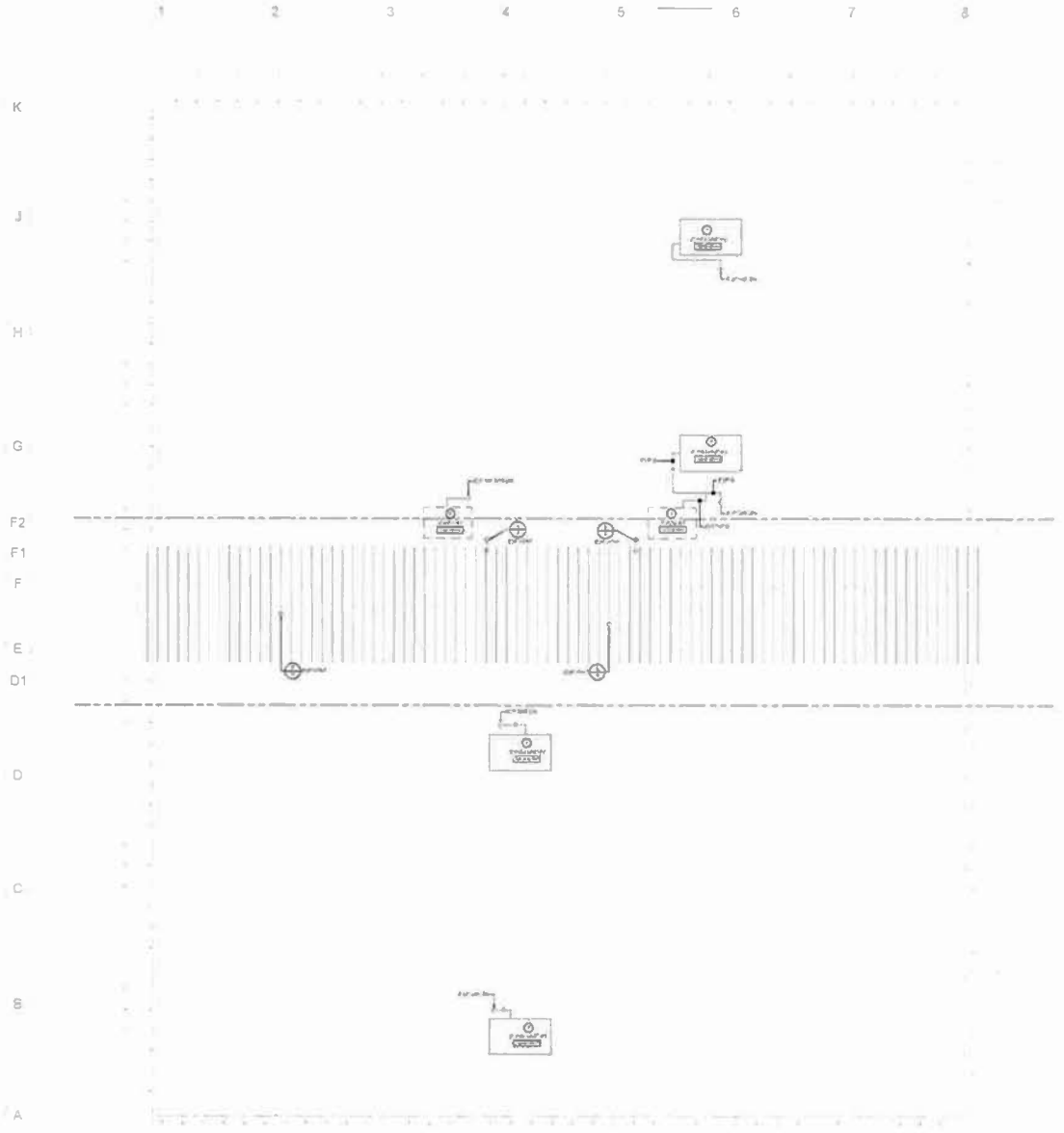
DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 1 & LEVEL 2

PD102.1



1 PD103.1 DEMOLITION WORK - ROOF PLAN

SCALE: 3/32" = 1'-0"

GENERAL PLUMBING DEMOLITION NOTES

1. PRIOR TO ANY PLUMBING PIPING OR EQUIPMENT REMOVAL OR DEMOLITION CONTRACTOR SHALL ANALYZE AND INSPECT FOR PRESENCE OF HAZARDOUS MATERIALS. ANY HAZARDOUS MATERIALS SHALL BE DOCUMENTED AND THE OWNER AND ARCHITECT NOTIFIED. ALL HAZARDOUS WASTE DISPOSALS SHALL COMPLY WITH STATE AND LOCAL REGULATIONS.
2. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL DEMOLITION INCIDENTAL TO OR IN CLUDED FOR NEW AND RENOVATED CONSTRUCTION WHETHER OR NOT SPECIFICALLY NOTED AND INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - .1 REMOVAL OF PLUMBING FIXTURES (PIPE, SUPPLIES, TRAPS, CLEANOUTS, DRAINS, WATER HEATERS, PUMPS, VALVES, RELATED PIPING, ETC.) THAT MIGHT REASONABLY BE REQUIRED TO BE REMOVED IN PREPARATION FOR INSTALLATION OF NEW CONSTRUCTION, SPECIFIED FIXTURES OR OTHER EQUIPMENT REQUIRING PLUMBING.
3. DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN.
4. WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY PRIOR TO THE PROCEEDING WITH DEMOLITION.
5. THE PLUMBING CONTRACTOR SHALL REMOVE IF THE EXISTING FIXTURES AS NOTED OF THE FOLLOWING DRAWINGS, NEEDLY ALL PIPING NOT REQUIRED FOR RENOVATION AND CAP AT NEAREST VALVE OR MAIN LINE REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE OFF SITE SAID FIXTURES AS DIRECTED BY THE OWNER/ARCHITECT.

DEMOLITION PLAN NOTES

1. SEE MECHANICAL PLANS FOR DETAILS ON DEMOLITION OF EXISTING ROOF TOP UNIT. EXISTING GAS PIPING TO REMAIN. SEE MECH. ROOF PLANS FOR DETAILS.
2. EXISTING RTU # 3 REMOVE FROM UNIT (HSK) AND ASSOCIATED GAS PIPING TO REMAIN

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DEMOLITION WORK - ROOF PLAN

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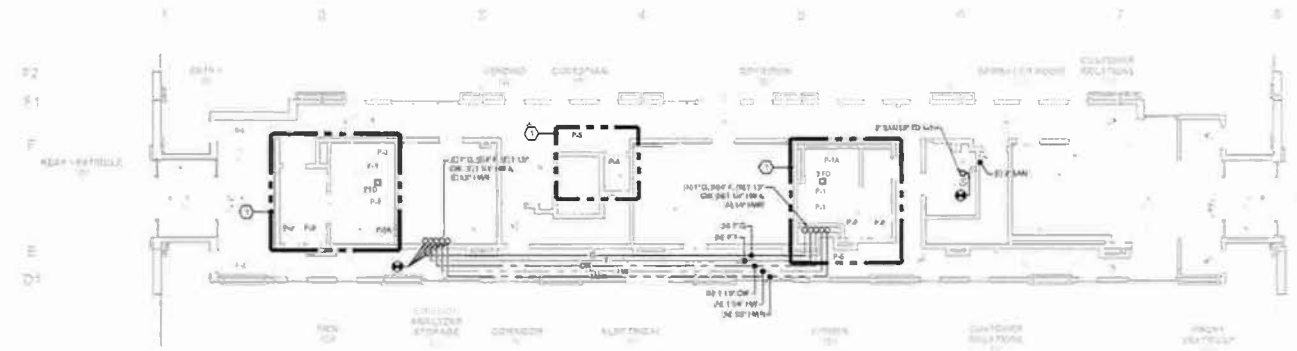
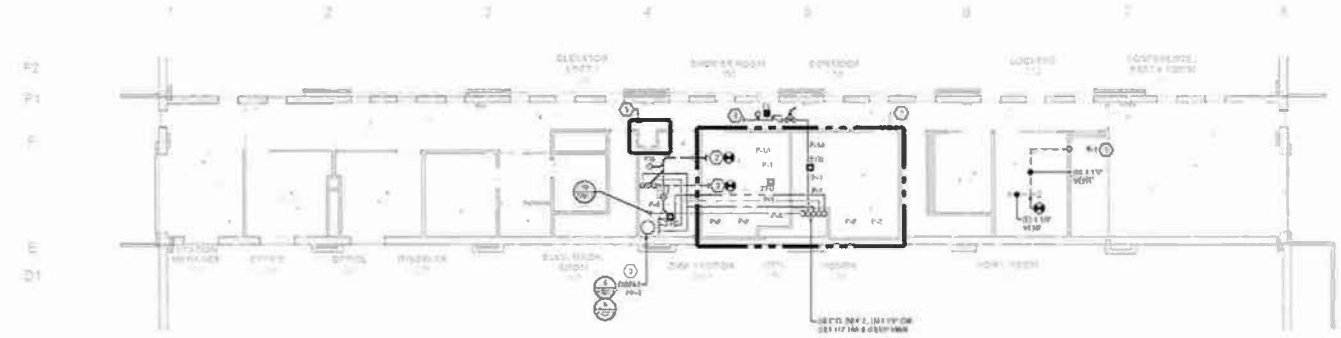
KEY PLAN



1 P102.1 NEW WORK CUSTOMER SERVICE CTR - LEVEL 1
SCALE: 1/8" = 1'-0"



2 P102.1 NEW WORK CUSTOMER SERVICE CTR - LEVEL 2
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. PRIOR TO START OF WORK CONTRACTOR SHALL TRACE AND LOCATE ALL EXISTING SANITARY, STORM, DOMESTIC CW & HW PIPING IN AREA OF WORK, AND AVOID EXTENSIVE DEMOLITION OR DAMAGE TO CEILINGS SLABS AND WALLS.
2. CONTRACTOR IS RESPONSIBLE FOR PATCHING AROUND NEW WORK INSTALLATION, EXCAVATION AND DEMOLITION AREA. ALL PATCHING AND FINISHING WORK SHALL BE COORDINATED WITH ARCHITECT).
3. PRIOR TO START OF PLUMBING WORK, ALL INTENDED STORM AND SANITARY PIPING TO BE REUSED SHALL BE FIELD VERIFIED (LOCATION AND SIZE). ALL BELOW SLAB REUSED PIPING SHALL BE SNAKED AND VIDEO AUGER TO ANALYZE PIPING AND CHECK FOR DAMAGE AND CLOGS. ALL DAMAGED PIPING SHALL BE REPLACED AND CLOGS CLEARED). CONTRACTOR SHALL PROVIDE WRITTEN REPORT TO ENGINEERS ARCHITECT OF PIPING ANALYSIS).
4. COORDINATE WITH CIVIL ENGINEER FOR INSPECTION OF BUILDING STORM AND SANITARY DRAIN FROM BUILDING TO STREET MAIN.
5. CONTRACTOR IS RESPONSIBLE FOR PATCHING AROUND NEW WORK INSTALLATION, EXCAVATION AND DEMOLITION AREA. ALL PATCHING AND FINISHING WORK SHALL BE COORDINATED WITH ARCHITECT).
6. REFER TO ARCHITECTURAL PLANS FOR EXACT PLUMBING FIXTURE LAYOUT.
7. CONTRACTOR SHALL SANITIZE DOMESTIC SYSTEM AFTER PIPING WORK IS COMPLETE AND PRIOR TO OCCUPANCY IN ACCORDANCE TO IPC 2606.
8. ALL SANITARY AND STORM PIPING SHALL BE TESTED WITH PIPE FILL METHOD UPON MAJOR COMPLETION OF PIPING INSTALLATION.
9. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM BUILDING AREA DAILY.
10. CONTRACTOR SHALL INSPECT, TEST AND REPLACE ALL NON-FUNCTIONAL PLUMBING FIXTURE INTENDED TO REMAIN IF APPLICABLE.

SHEET KEY NOTES

1. [illegible] PLUMBING FIXTURE PER PLUMBING FIXTURE SCHEDULE.
2. CONNECT TO (E) SANI & (E) VENT PIPES IN RESTROOM MEP 209. CONTRACTOR TO FIELD VERIFY THE SIZE AND LOCATION OF THE EXISTING PIPES.
3. INSTALL NEW DOMESTIC WATER HEATER WITH THERMOSTATIC MIXING VALVE (TMV - ASSE 1017) AND RECIRCULATION PUMP.
4. CONNECT TO (E) HEATING SYSTEM.
5. (N) [illegible] PLUMBING FIXTURES TO REMAIN.

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CUSTOMER SERVICE CTR LEVEL 1 & LEVEL 2

P102.1

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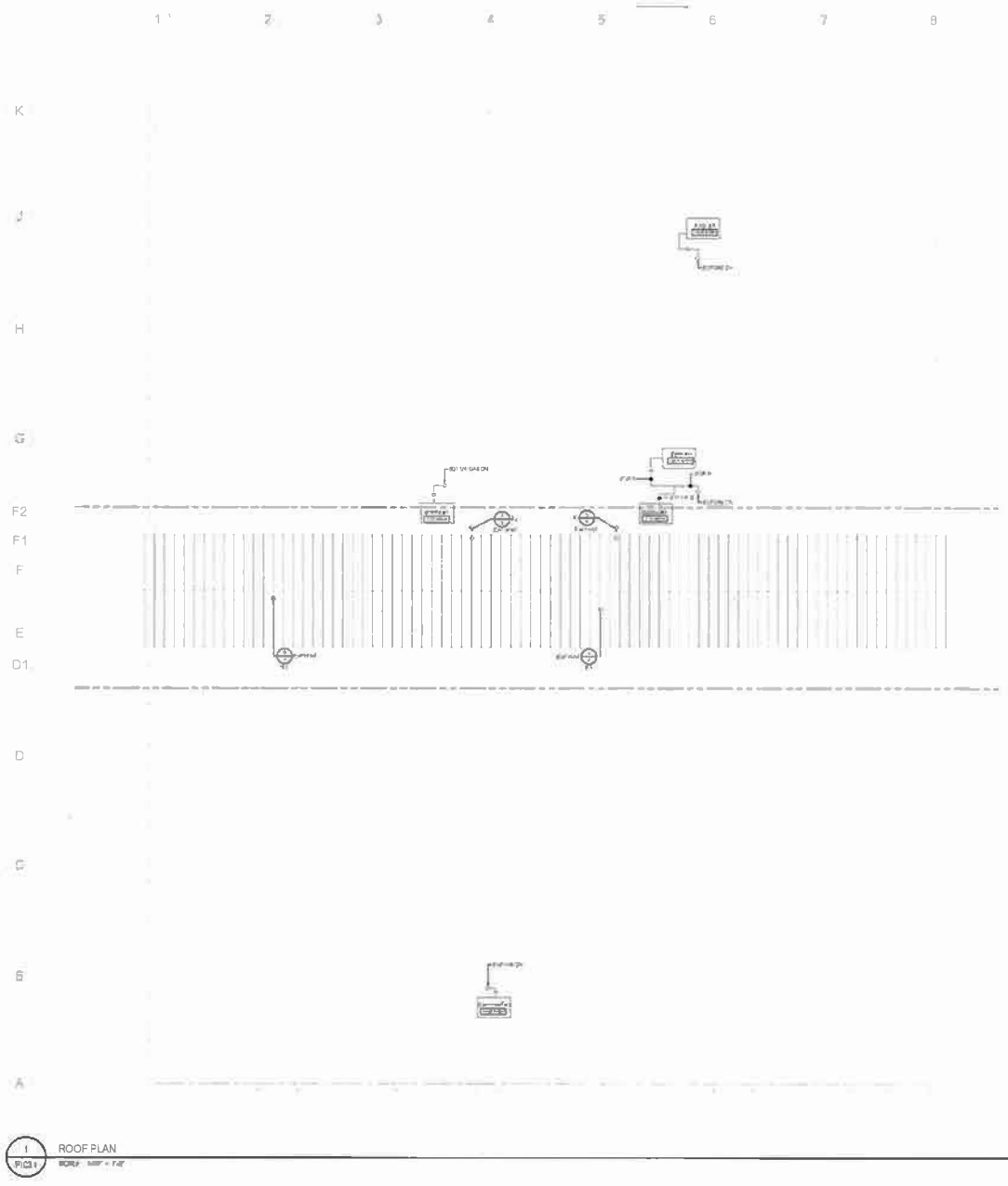

1 ROOF PLAN
P103.1 SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. PRIOR TO START OF WORK CONTRACTOR SHALL TRACE AND LOCATE ALL EXISTING SANITARY, STORM, DOMESTIC CW & HW PIPING IN AREA OF WORK, AND AVOID EXTENSIVE DEMOLITION OR DAMAGE TO CEILINGS SLABS AND WALLS.
2. CONTRACTOR IS RESPONSIBLE FOR PATCHING AROUND NEW WORK INSTALLATION, EXCAVATION AND DEMOLITION AREA. ALL PATCHING AND FINISHING WORK SHALL BE COORDINATED WITH ARCHITECT.
3. PRIOR TO START OF PLUMBING WORK ALL INTENDED STORM AND SANITARY PIPING TO BE REUSED SHALL BE FIELD VERIFIED (LOCATION AND SIZE). ALL BELOW SLAB REUSED PIPING SHALL BE SNAKED AND VIDEO AUGER TO ANALYZE PIPING AND CHECK FOR DAMAGE AND CLOGS. ALL DAMAGED PIPING SHALL BE REPLACED AND CLOGS CLEARED. CONTRACTOR SHALL PROVIDE WRITTEN REPORT TO ENGINEER AND ARCHITECT OF PIPING AND CLOGS.
4. COORDINATE WITH CIVIL ENGINEER FOR INSPECTION OF BUILDING STORM AND SANITARY DRAIN FROM BUILDING TO STREET MAIN.
5. CONTRACTOR IS RESPONSIBLE FOR PATCHING AROUND NEW WORK INSTALLATION, EXCAVATION AND DEMOLITION AREA. ALL PATCHING AND FINISHING WORK SHALL BE COORDINATED WITH ARCHITECT.
6. REFER TO ARCHITECTURAL PLANS FOR EXACT PLUMBING FIXTURE LAYOUT.
7. CONTRACTOR SHALL SANITIZE DOMESTIC SYSTEM AFTER PIPING WORK IS COMPLETE AND PRIOR TO OCCUPANCY IN ACCORDANCE TO IPC 2006.
8. ALL SANITARY AND STORM PIPING SHALL BE TESTED WITH PIPE FILL METHOD UPON MAJOR COMPLETION OF PIPING INSTALLATION.
9. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM BUILDING AND DRAINS.
10. CONTRACTOR SHALL INSPECT, TEST AND REPLACE ALL NONFUNCTIONAL PLUMBING FIXTURE INTENDED TO REMAIN IF APPLICABLE.

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ROOF PLAN

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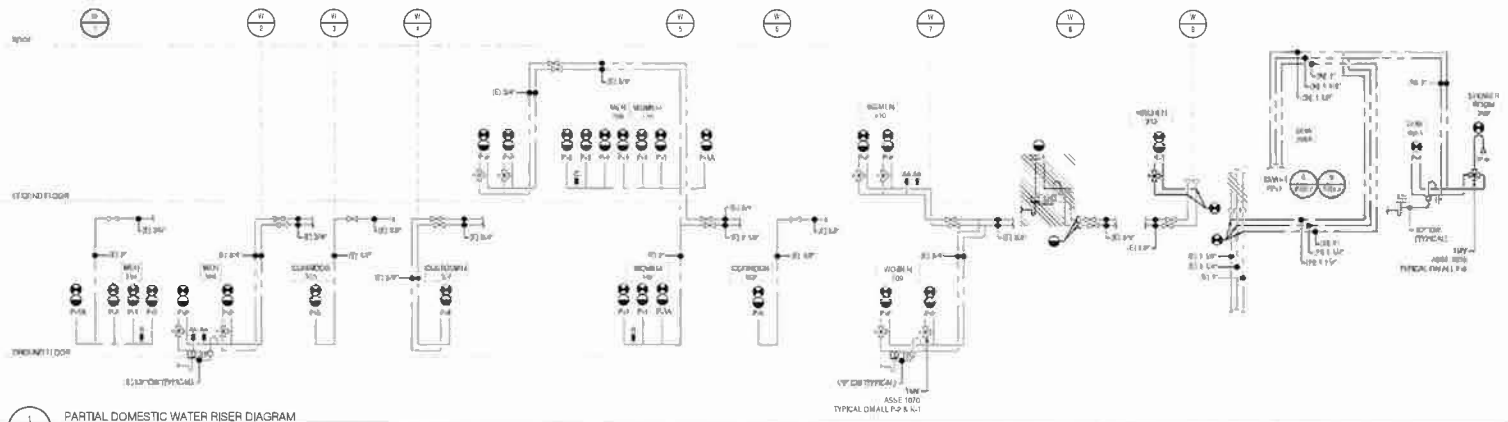
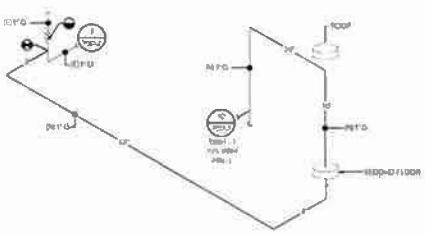
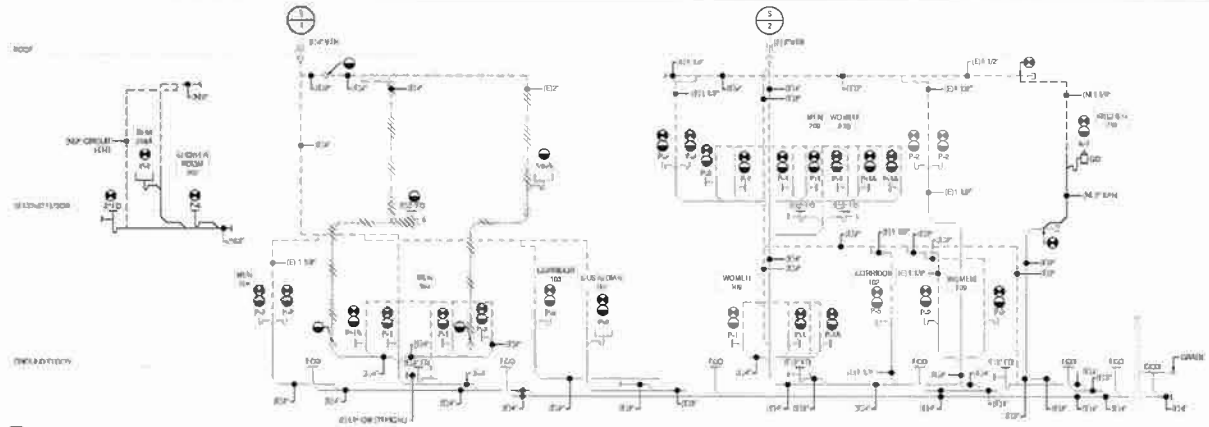


1 P501.1 PARTIAL DOMESTIC WATER RISER DIAGRAM
SCALE: NOT TO SCALE



3 P501.1 PARTIAL GAS RISER DIAGRAM - CUSTOMER SERVICE CTR
SCALE: NOT TO SCALE



2 P501.1 PERTIAL SANITARY RISER DIAGRAM
SCALE: NOT TO SCALE

NATURAL GAS EQUIPMENT DEMAND

ID	NATURE	QUANTITY	EXISTING EQUIPMENT MBH/H RATING TO REMAIN	EXISTING EQUIPMENT MBH/H RATING TO REPLACE	EXISTING EQUIPMENT MBH/H RATING TO REMOVE	NEW EQUIPMENT MBH/H RATING	PIPE SIZE CONNECTION	REQUIRED INLET PRESSURE	PRESSURE	GAS SERVICE	EQUIPMENT LOCATION
(E) WATER HEATER	DOMESTIC WATER HEATER	1	-	-	199	-	-	-	EXISTING TO REMAIN	2 PSI	CUSTODIAN CLOSET SECOND FLOOR
[illegible]	DOMESTIC WATER HEATER	1	-	-	-	[illegible]	-	[illegible]	[illegible] WITH VENT LIMITER PRV-1	2 PSI	DMV 208A SECOND FLOOR
	TOTAL DEMAND		0	0	199	125					
					TOTAL LOAD	125					

* EXPOSED TO ELEMENT NO VENTING REQUIRED

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PLUMBING RISER DIAGRAM

P501.1

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	ADA	MANUFACTURER	MODEL	FAUCET/VALVE	LEED FOR RESIDENTIAL (BASE LINE MAX. FLOW REQUIREMENT GPM / GPF / GPC	DESIGN BASE FIXTURE FLOW GPM / GPF / GPC	DESCRIPTION	MOUNTING	NOTES	PLUMBING FIXTURE ROUGH-IN				
											CW	HW 120 DEG	HW 140 DEG	WASTE	VENT
P-1	WATER CLOSET	NO	AMERICAN STANDARD	AFWALL 4325.128	INCLUDED IN PACKAGE	1.6 GPF	1.28 GPF	WHITE, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 1.28 GPF EXPOSED, SENSOR OPERATED, BATTERY POWERED FLUSH VALVE	WALL MOUNTED	WALL MOUNTED 15" FROM FINISHED FLOOR TO TOP OF RIM FOR STANDARD INSTALLATION	1"			4"	2"
P-1A	WATER CLOSET	YES	AMERICAN STANDARD	AFWALL 4325.128	INCLUDED IN PACKAGE	1.6 GPF	1.28 GPF	WHITE, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 1.28 GPF EXPOSED, SENSOR OPERATED, BATTERY POWERED FLUSH VALVE	WALL MOUNTED	WALL MOUNTED 16 1/2" FROM FINISHED FLOOR TO TOP OF RIM FOR ADA INSTALLATION	1"			4"	2"
P-2	LAVATORY	YES	AMERICAN STANDARD	OVALYN 0496.221	CHICAGO FAUCETS 802.VEZ805.665CP	0.25 GPC	0.25 GPC	WHITE VITROUS CHINA, OVAL UNDERMOUNT SINK, DECK MOUNTED HOT AND COLD WATER METERING FAUCET WITH MAX FLOW RATE OF 0.25 GPC. COORDINATE LAVATORY HOLES WITH FAUCET SELECTION	WALL MOUNTED	TOP OF FRONT RIM MOUNTED 34" ABOVE FINISHED FLOOR FOR ADA INSTALLATION PROVIDE 4" CENTERS TOP OF FRONT RIM MOUNTED 34" ABOVE FINISHED FLOOR FOR ADA INSTALLATION PROVIDE 4" CENTERS	1/2"	1/2"		2"	1 1/2"
P-3	URINAL	YES	AMERICAN STANDARD	WISHBROOK #6590.525	INCLUDED IN PACKAGE	1.0 GPF	1.0 GPF	WATERCONSERVING URINAL, CONCEALED TYPE, FLUSH VALVE OPERATED BY INFRARED SENSOR (@ 1.0 GPF)	WALL MOUNTED	COORDINATE WITH ARCHITECTURAL PLANS FOR ADA INSTALLATION	3/4"			2"	1 1/2"
P-4	SERVICE SINK	-	AMERICAN STANDARD	AKRON # 7095.004	CHICAGO VALUE# 897-RCT	N/A	2.2 GPM	WALL MOUNTED SERVICE SINK, WALL MOUNTED FAUCET WITH ACCESSORIES	WALL MOUNTED	-	1/2"	1/2"	-	3"	2"
P-5	DRINKING FOUNTAIN	YES	HALSEY TAYLOR	HTV 4Q		N/A		WALL MOUNTED REFRIGERATED BARRIER FREE DUAL NON-OVERFLOW VANDAL RESISTANT BOTTLE FILLER	WALL MOUNTED		1/2"			2"	1 1/2"
P-6	SHOWER	NO	POWERS	P605.BF			2.5 GPM	CHROME PLATED FACEPLATE WITH COLOUR GRAPHIC INSERT FOR TEMPERATURE INDICATION MAX FLOW RATE OF 2.5 GPM	FLOOR	-	3/4"	3/4"	-	3"	2"
P-7	KITCHEN SINK		KOHLER	K-6667	CHICAGO FAUCETS 527-ABCP/ABCP	-		18 GAUGE STAINLESS STEEL UNDER MOUNT KITCHEN SINK, DECK MOUNTED PEX CENTER HOT AND COLD WATER SINK FAUCET WITH MAX FLOW RATE OF 2.2 GPM	UNDER COUNT	-	1/2"	1/2"	-	2"	1 1/2"
FP	TRAP PRIMER		MIFAB	M-500				PRESSURE DROP ACTIVATED TRAP SEAL PRIMER	WALL CAVITY/CHASE						
GD	GARBAGE DISPOSAL	-	IN SINK ERATOR	BADGER 5XP	-	-		3/4 HP GARBAGE DISPOSAL	-	INSTALL DIRECTLY ON DRAIN LINE OF KITCHEN SINK	-	-	-	-	-
HB	HOSE BIBB/WASH	-	WOODFORD	Y10-CC	-	-	-	-	WALL/FLOOR	DIRECT WASTE CONNECTION TO FLOOR DRAIN SIZE IS EQUAL TO PIPE SIZE PROVIDE TRAP SEAL PRIMER TO FLOOR DRAIN	1/2"	-	-	-	-

DOMESTIC WATER HEATER SCHEDULE

ID	DESCRIPTION	LOCATION	QUANTITY	TYPE	TOTAL AVAILABLE CAPACITY	STORAGE CAP	RECOVERY AT 100°F	DOMESTIC DEMAND CAPACITY	MBH	VENT	ELEVATION	GAS CONN	EFFICIENCY	ELECTRICAL MCA	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	BASIS OF DESIGN	REMARKS	EXPANSION TANK
[illegible]	[illegible]	DHW 208A	1	GAS	[illegible]	[illegible]	[illegible]	40	[illegible]	-	0	1.0"	96%	-	-	-	-	[illegible]	[illegible]	[illegible]

HOT WATER PIPE LENGTH TABLE

SYSTEM	PIPE DIAMETER				
	1/2"	3/4"	1"	1 1/4"	1 1/2"
[illegible]HW	24	125	102	[illegible]	[illegible]
[illegible]HW	225	0	0	0	0
TOTAL [illegible]	249	125	102	113	0
[illegible]	0	0	0	0	0
[illegible]	0	0	0	0	0
TOTAL [illegible]	0	0	0	0	0
Pipe Length used for 3" Hazing	[illegible]	125	[illegible]	[illegible]	0

NOTE: HOT WATER CIRCULATING PUMPS ARE SELECTED (FLOW AND TDH) USING ESTIMATE PIPING LENGTH AS SHOWN IN TABLE. ALL FIELD DISCREPANCY FROM NOTED WILL REQUIRED REVISITING DOMESTIC HOT WATER EXPANSION TANK SIZING SEE SCHEDULE FOR SELECTION

PUMP SCHEDULE

ID	LOCATION	SERVICE	TYPE	PUMP			PUMP SIZE		ELECTRICAL REQUIREMENTS							ELECTRICITY POWERED	REMARKS	BASIS OF DESIGN
				GPM	TOTAL HD (FT)	MIN EFF %	SUCT.	DISCH.	HP	RPM	KW	V	PH	HZ				
[illegible]	DHW 208A	[illegible]DPRE CIRCULATION	INLINE	4.6	[illegible]	-	1/2"	1/2"	-	2500	[illegible]	[illegible]	1	60		NO	PROVIDE AUTOMATIC VALVES AND ACCESSORIES	[illegible]

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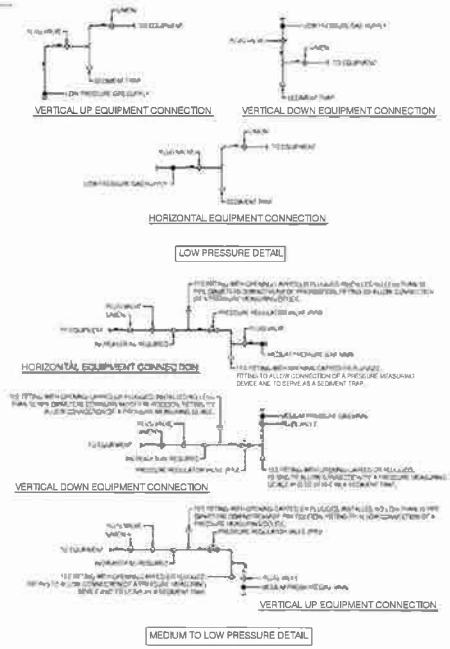
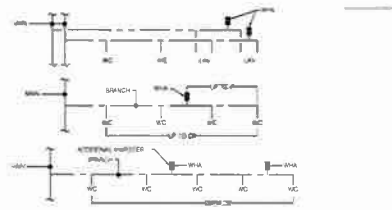
PLUMBING SCHEDULES

P601.1

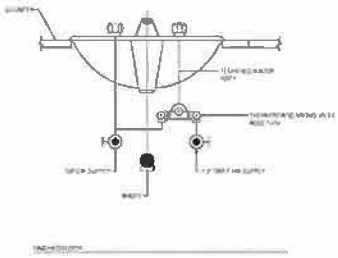


10 P701.1 GAS EQUIPMENT CONNECTION DETAIL
SCALE: NOT TO SCALE



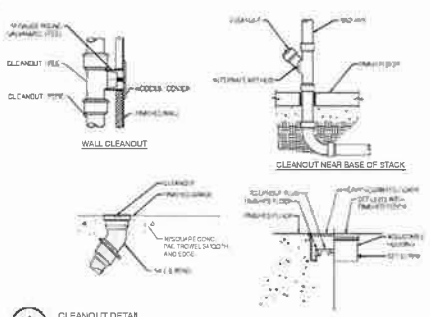
NOTE:
1. WATER HAMMER ARRESTERS SHALL BE INSTALLED ON ALL BRANCH PIPING SERVING PLUMBING FIXTURES, QUICK-CLOSING VALVES, EQUIPMENT, OR WALL HYDRANTS/HOSE BIBS.
2. BRANCH PIPES WITH A DEVELOPED LENGTH OF 2½ OR LESS MAY HAVE ARRESTERS REDUCED BY ONE SIZE.
3. BRANCH PIPES WITH A DEVELOPED LENGTH OF 10 OR GREATER MAY HAVE ARRESTERS REDUCED BY ONE SIZE.
4. STOP VALVE AND WATER HAMMER ARRESTERS SHALL BE ACCESSIBLE THROUGH A SINGLE ACCESS DOOR.
5. SEE FLOOR PLANS/RISER DIAGRAMS FOR CONTINUATION.
6. WHEN WORKING WATER PRESSURE EXCEEDS 85 PSI USE NEXT LARGEST SIZE.
7. MAXIMUM PIPING LENGTH CONVERT BY ONE ARRESTER SHALL BE 20 LINEAR FEET.

7 P701.1 WATER HAMMER ARRESTER DETAIL
SCALE: NOT TO SCALE

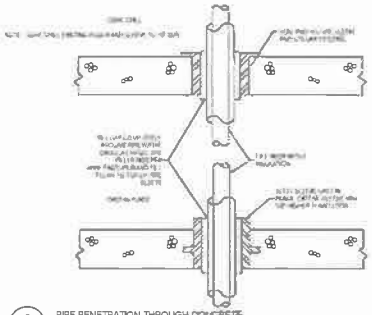


8 P701.1 LOCAL MIXING VALVE DETAIL
SCALE: NOT TO SCALE

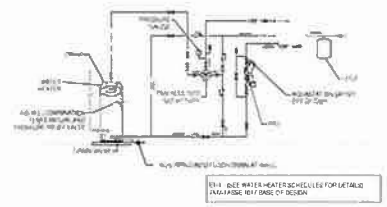
9 P701.1 HEAT TRAP LOOP DETAIL
SCALE: NOT TO SCALE



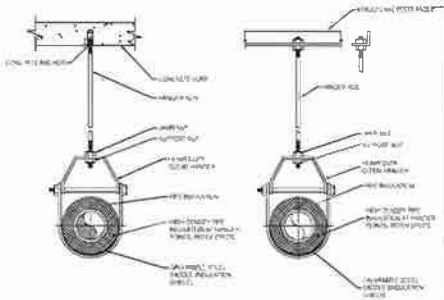
6 P701.1 CLEANOUT DETAIL
SCALE: NOT TO SCALE



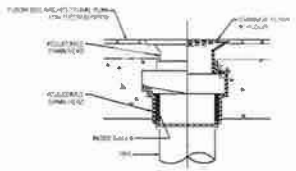
5 P701.1 PIPE PENETRATION THROUGH CONCRETE
SCALE: NOT TO SCALE



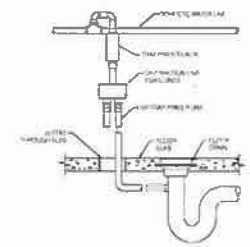
8 P701.1 DOMESTIC WATER HEATER DETAIL (DWH-2)
SCALE: NOT TO SCALE



1 P701.1 PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



2 P701.1 FLOOR DRAIN DETAIL
SCALE: NOT TO SCALE



THE PRIMING VALVE IS AUTOMATICALLY ACTIVATED WHEN IT SENSES A PRESSURE DROP OF 5 TO 10 PSI (±). THE TRAP PRIMER MUST BE INSTALLED ON COLD WATER LINES OF 1 1/2" DIAMETER OR LESS.

3 P701.1 PRIMER TRAP DETAIL
SCALE: NOT TO SCALE

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22 JUNE 2015
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PLUMBING DETAILS

P701.1

ELECTRICAL GENERAL NOTES

1. [illegible] CODES, ETC.
   A. LOCAL CODES AND ORDINANCES
   B. THE EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70 (NEC)) IN EFFECT.
2. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
3. [illegible]
4. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. COORDINATE ELECTRICAL EQUIPMENT LOCATION AND INSTALLATION WITH EQUIPMENT BEING SERVED. PROVIDE ALL POWER AND TELECOMMUNICATION FINAL CONNECTIONS TO THE SYSTEM FURNITURE AS REQUIRED.
5. ALL EQUIPMENT SUCH AS RELAYS, SWITCHES, PANELS, AND OTHER APPURTENANCES SHALL HAVE IDENTIFICATION PLATES OF BLACK LAMINATED PLASTIC WITH 1/2" WHITE LETTERS. ALL JUNCTION BOXES IN CEILING CAN BE MARKED WITH BLACK PERMANENT MARKER ON COVER PLATES AS PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
6. ALL CONDUCTORS SHALL BE IDENTIFIED. ALL WIRING DEVICES SHALL BE USED WITH TYPED LABEL ON THE COVER PLATE IDENTIFYING THE PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
7. [illegible]
8. ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
9. [illegible]
10. [illegible] CONCEALMENT OF NEW CONSTRUCTION. ALL WORK BEHIND FINISHED SURFACES SHALL BE INSPECTED BY THE OWNERS REPRESENTATIVE.
11. [illegible] CONSTRUCTION AND PRIOR TO COMPLETION OF CONSTRUCTION TO ALLOW SUFFICIENT TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
12. CONTROL WIRING SHALL BE TAGGED [illegible]
13. IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE OR IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
14. [illegible] MATERIALS, SERVICES, APPARATUS, AND DRAWINGS IN ADDITION TO CONTRACT DOCUMENTS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, INDICATED AND/OR SPECIFIED, PROVIDE ALL ELECTRICAL EQUIPMENT WITH ALL NECESSARY ASSOCIATED ACCESSORIES AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM AT NO [illegible]
15. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT, AND SPACE CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDANT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. HE SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT HIM FROM INSTALLING HIS EQUIPMENT IN THE MANNER SPECIFIED OR AS SHOWN IN CONTRACT DOCUMENTS TEN BUSINESS DAYS PRIOR TO SUBMISSION OF BIDS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY EFFECT HIS WORK.
16. [illegible] CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
17. [illegible]
18. ALL MATERIALS AND WORK SHALL BE ACCORDING TO BASE BUILDING SPECIFICATIONS UNLESS OTHERWISE NOTED.
19. ALL CONDUCTORS SHALL BE COPPER. MINIMUM SIZE SHALL BE # 12 AWG. CONDUCTOR # 10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS # 8 AWG AND LARGER SHALL BE STRANDED. CONDUCTOR SHALL HAVE THHN/THWN INSULATION OR AS NOTED.
20. NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. PROVIDE ALL WIRE NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLAN OR NOT.
21. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, ELEVATION, MOUNTING HEIGHTS AND DETAILS OF ALL LIGHT FIXTURES AND DEVICES. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
22. [illegible]
23. CONTRACTOR SHALL PROVIDE A 4" HIGH HOUSEKEEPING CONCRETE PAD FOR ALL FLOOR MOUNTED TRANSFORMERS. MINIMUM OF PAD SIZE SHALL BE BASED ON EQUIPMENT SIZE PLUS 2" EACH SIDE. PROVIDE ALL NECESSARY STRUCTURAL SUPPORT FOR CEILING MOUNTED TRANSFORMERS.
24. [illegible] SYSTEM PER LOCAL CODES AND IN ACCORDANCE WITH BASE BUILDING SPECIFICATIONS. COORDINATE INSTALLATION WITH THE BUILDING ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY COMPONENTS, INCLUDING CABLES, CONDUIT, CONTROL MODULES, FIRE ALARM DEVICES. A NEW EXTENDER BOOSTER PANEL AND OR MAKE ANY MODIFICATIONS NECESSARY TO THE EXISTING FIRE ALARM CONTROL PANEL. PROVIDE POWER SUPPLY TO NEW EXTENDER PANEL AS REQUIRED. CONTRACTOR TO PROVIDE AN ALTERNATE PRICE IN BID DOCUMENT TO POTENTIALLY ADD A NEW EXTENDER PANEL OR TO REPLACE THE EXISTING ONE AS LISTED ALONG WITH ANY OTHER ACCESSORY DEVICES WHICH WOULD BE REQUIRED FOR THE SYSTEM TO BE COMPLETELY OPERATIONAL. ALL WIRING SHALL BE IN 3/4" EMT OR FIRE CABLE CAN BE USED WITH BUILDING OWNER APPROVAL.
25. [illegible]
26. GANG ALL SWITCHES SHOWN TO BE INSTALLED AT SAME LOCATION UNDER A SINGLE COVER PLATE. PROVIDE BARRIERS SWITCH BOX AS REQUIRED TO SEPARATE 120V CIRCUITS FROM 277V CIRCUITS AND 277V CIRCUITS OF DIFFERENT PHASE.
27. PROVIDE PLASTER RING WITH PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR ALL TELEPHONE, DATA, FAX, MODEM, CATV, CARD READER, ETC. OUTLETS INSTALLED IN HOLLOW PARTITIONS. PROVIDE 3/4" EMPTY CONDUIT AND PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR THESE OUTLETS INSTALLED IN AN INSULATED PARTITION. PROVIDE P.E.C. WITH 2 STRINGS FOR COMBINATION DATA/TEL OUTLET.
28. MAINTAIN INTEGRITY OF THE FIRE RATED CONSTRUCTION WHERE CONDUITS PASS THROUGH WALLS AND FLOORS.
29. [illegible]
30. TYPE MC CABLE MAY BE USED IN LIEU OF EMT FOR BRANCH CIRCUITS, IN DRYWALL PARTITION AND IN CEILING PLENUM WHERE IS ALLOWED BY NEC AND THE BUILDING OWNER. (MC CABLE FOR ISOLATED CIRCUIT SHALL HAVE TWO (2) SEPARATE GROUNDING CONDUCTORS).
31. CONTRACTORS SCOPE OF WORK INCLUDES TRACING ALL EXISTING CIRCUITS IN THE CONSTRUCTION AREA BACK TO SOURCE. IF REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AFFECTS ANY EXISTING CIRCUITS, CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS, WIRING, CONDUIT, ETC. REQUIRED TO RECONNECT EXISTING TO REMAIN ELECTRICAL EQUIPMENT BACK TO SOURCE.
32. [illegible]
33. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS OF SYSTEMS FURNITURE WHIPS. JUNCTION BOXES SERVING SYSTEM FURNITURE SHALL REMAIN ACCESSIBLE.
34. [illegible]
35. CONTRACTOR SHALL PROVIDE 50% STEP DIM BALLASTS IN ALL LIGHTING FIXTURES WITH TWO LEVELS OF SWITCHING ARE INDICATED.
36. ALL EXISTING AND NEW PANELS IMPACTED BY THIS PROJECT SHALL BE PROVIDED WITH NEW UPDATED TYPEWRITTEN PANEL SCHEDULES INDICATING THE FINAL ROOM NUMBER AND THE EQUIPMENT OR DEVICES SERVED BY THE CIRCUIT. CONTRACTOR TO BE BALANCE THE NEW LOADS ON ALL THREE PHASES FOR EACH PANELBOARD WHERE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS SPECIFICATIONS.
37. INSTALLATION OF EQUIPMENT, COMPONENTS AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF EQUIPMENT MANUFACTURER.
38. DELIVER PRODUCTS TO PROJECT SITE IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS, AND OTHER INFORMATION NEEDED FOR DISTINCT IDENTIFICATION. ADEQUATELY PACKAGED AND PROTECTED TO PREVENT DAMAGE DURING SHIPMENT, STORAGE, AND HANDLING. PROTECT STORED EQUIPMENT AND MATERIALS FROM DAMAGE. COMPLY WITH MANUFACTURERS RIGGING AND MOVING INSTRUCTIONS FOR UNLOADING EQUIPMENT AND MOVING INTO FINAL LOCATION.
39. CONTRACTOR TO COORDINATE ELECTRICAL WORK TO AVOID INTERFERENCE BETWEEN ALL OTHER TRADES.
   A. DETERMINE INTERFERENCE BEFORE WORK IS FABRICATED OR INSTALLED. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL DETAILS OF WORK AND WORKING CONDITIONS AND COORDINATE WORK DURING PRELIMINARY STAGES TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND NO REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.
   B. WHERE JOB CONDITIONS REQUIRE REASONABLE DEVIATIONS FROM CONTRACT DOCUMENTS, MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER AFTER OBTAINING APPROVAL OF ARCHITECT.
   C. PROVIDE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL, AND TESTING OF ELECTRICAL EQUIPMENT. APPROVED DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY.
   D. KEEP CONDUITS, WIREWAYS AND SIMILAR ITEMS AS CLOSE AS POSSIBLE TO CEILING, WALLS AND COLUMNS IN ORDER TO TAKE UP MINIMUM AMOUNT OF SPACE.
   E. PROVIDE OFFSETS, FITTINGS AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH REQUIREMENTS OF COORDINATION WITHOUT ADDITIONAL EXPENSE TO OWNER.
   F. PROVIDE ACCESS TO AND CLEARANCES AROUND EQUIPMENT AS REQUIRED BY THE N.E.C.
40. [illegible] SUPPORTED BY THE CEILING FRAMING MEMBERS PROVIDED THE SUSPENDED CEILING IS INSTALLED IN ACCORDANCE WITH NEC.
41. [illegible]
42. TESTING:
   A. TEST AND ADJUST EQUIPMENT AND SYSTEMS INSTALLED AND DEMONSTRATE PROPER OPERATION TO OWNERS REPRESENTATIVE. NO EQUIPMENT SHALL BE TESTED OR OPERATED FOR ANY PURPOSE UNTIL IT HAS BEEN FULLY PREPARED FOR OPERATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
   B. SHOW BY DEMONSTRATION IN SERVICE, THAT ALL CIRCUITS AND DEVICES ARE IN GOOD OPERATING CONDITION. EACH PIECE OF EQUIPMENT AND COMPONENT OF THE ELECTRICAL SYSTEM SHALL FUNCTION NOT LESS THAN FIVE TIMES IN COURSE OF THE ACCEPTANCE TESTS.
43. PROVIDE ALL NEW PANELS AND TRANSFORMERS WITH COPPER BUSBARS AND WINDINGS UNLESS BASE BUILDING STANDARDS DIFFER.
44. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL, PLUMBING AND OTHER TRADES TO PROVIDE ALL EQUIPMENT ASSOCIATED WITH THEIR RESPECTIVE TRADES WITH NECESSARY WIRING AND CONDUIT INFRASTRUCTURE FOR ALL SENSORS AND CONTROL SYSTEMS AS REQUIRED.

120V BRANCH CIRCUIT WIRING CONDUCTOR SIZE

DEPENDING ON BRANCH CIRCUIT RUN LENGTH FROM PANELBOARD TO THE LAST DEVICE ON THE BRANCH CIRCUIT, THE CONTRACTOR SHALL INCREASE THE BRANCH CIRCUIT WIRE SIZE AS PER THE TABLE BELOW. MAXIMUM #10 WIRE SHALL BE USED FOR GENERAL RECEPTACLE CIRCUIT WIRING.

LENGTH (FEET)	VOLTAGE (V)	AMPACITY (A)	WIRE SIZE (AWG)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	# 10

ELECTRICAL GENERAL DEMOLITION NOTES

I. GENERAL

A. BEFORE SUBMITTING BID, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY/EXAMINE THE EXACT EXTENT OF EXISTING CONDITIONS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY EFFECT HIS WORK.

B. THE GENERAL EXTENT OF EXISTING ELECTRICAL WORK TO BE DISMANTLED AND REMOVED OR RELOCATED IS INDICATED ON THE DRAWINGS.

C. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED OR RELOCATED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS, HANGERS, WIRING, CABLING, CONDUIT, BOXES, DEVICES AND ALL OTHER ITEMS RELATED TO EQUIPMENT AND MATERIALS WHICH ARE INDICATED TO BE REMOVED OR RELOCATED. REMOVE ALL WIRING/CONDUIT BACK TO THE SOURCE IN EXISTING CIRCUITS WHICH ARE BEING DEMOLISHED, UNLESS SPECIFICALLY INDICATED. NO EQUIPMENT MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.

D. ABANDONED ALL CONDUITS WHICH ARE CONCEALED IN CONCRETE WALLS OR SLABS AND REMOVE ALL WIRING/CABLES FROM ABANDONED CONDUITS.

II. DISPOSAL OF DEMOLITION

A. [illegible] CONTRACTOR SHALL NOTIFY BUILDING OWNER PRIOR TO DISPOSAL OF ALL DEMOLISHED MATERIALS TO ALLOW THE OWNER TO SALVAGE ANY USABLE MATERIALS. AFTER INSPECTING FROM THE OWNER'S REPRESENTATIVE ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE WITH DISPOSAL IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND REGULATIONS.

III. PROTECTION

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

IV. TERMINATION AND PATCHING

A. DISCONNECT EXISTING TO BE REMOVED OR EXISTING TO BE RELOCATED CONDUIT, WIRING, CABLING, AND EQUIPMENT FROM EXISTING TO REMAIN POINT INDICATED. IF NOT INDICATED ON THE PLANS, VERIFY WITH THE DESIGN ENGINEERS OR BUILDING OWNER'S REPRESENTATIVE PRIOR TO DISCONNECTION.

B. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING REMOVAL OR RELOCATION OF ELECTRICAL WORK, PATCH THE CUT OR DAMAGED AREAS TO MATCH ADJACENT CONSTRUCTION.

C. THE CONTINUITY OF ALL EXISTING CONDUITS AND FEEDERS SERVICING AREAS TO REMAIN SHALL BE MAINTAINED. MODIFY THE EXISTING CIRCUITS IF REQUIRED IN ORDER TO MAINTAIN [illegible]

ELECTRICAL SYMBOL LIST

(STANDARD SYMBOLS ONLY. ALL SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)

- [illegible]
- [illegible]
- [illegible]
- WALL-MOUNTED DUPLEX OR QUAD RECEPTACLE, 20A/125V/2P/3W (GROUNDED) NEMA 5-20R, MOUNTED @ 18" AFF, UON. OUTLETS MAY HAVE THE FOLLOWING SUBSCRIPTS:
  - DED — RECEPTACLE ON DEDICATED CIRCUIT
  - DW — DISHWASHER
  - EM — [illegible]
  - GFI — GROUND FAULT INTERRUPTER
  - WP — WEATHER PROOF OUTLET WITH PROTECTIVE COVER
- [illegible]
- [illegible] TRIANGLE ON FACE) 20A/125V/2P/3W (GROUNDED) NEMA 5-20R, MOUNTED @ 18" AFF, UNLESS OTHERWISE NOTED. GFI — INDICATES GROUND FAULT INTERRUPTER
- [illegible]
- [illegible] @ 18" AFF, QUANTITY OF OUTLETS AS SHOWN ON PLAN. PROVIDE JUNCTION BOX AT ONE END OF WIREMOLD FOR POWER CONNECTION AND WIRE ALL RECEPTACLES AS REQUIRED. [illegible] CUTOUTS AND JACKS AT WIREMOLD SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AFTER COORDINATION WITH COMMUNICATION VENDOR. WIREMOLD FINISH TO BE SELECTED BY ARCHITECT.
- [illegible]
- FLUSH MOUNTED ADA COMPLIANT COMBINATION DUPLEX/QUADRUPLEX POWER AND TELE-DATA-AV POKE THRU OUTLET. REFER TO TECHNOLOGY PATHWAY DRAWINGS FOR TELE-DATA-AV OUTLET REQUIREMENTS. COORDINATE POKE THRU FINISH, EXACT LOCATION [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- DUAL SWITCH (WITH 50% STEP DIMMING BALLASTS)
- [illegible]
- KEY OPERATED SWITCH
- [illegible]
- [illegible]
- [illegible]
- LIMIT SWITCH
- WALL/CEILING MOUNTED OCCUPANCY SENSOR SWITCH (DUAL TECHNOLOGY SENSOR). PROVIDE TIME SETTING FOR 15 MINUTES OR AS DIRECTED BY ARCHITECT AND OWNER. 2 — INDICATES A BI-LEVEL SWITCH
- [illegible]
- POWER PACK, UNIVERSAL VOLTAGE, (WHEN NOT SHOWN ON DRAWING IS INCLUDED WITH THE OCCUPANCY SENSORS)
- 120/208V ELECTRICAL PANEL
- [illegible]
- [illegible] 2 #12+1 #12G+1 #12G-3/4"C. EACH CIRCUIT HOMERUN SHALL BE [illegible] NEUTRAL
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- WALL MOUNTED CARD READER, MOUNTED @48" AFF, UON
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- ROOM CONTROLLER X - DENOTE NUMBER OF RELAYS (1 TO 3 MAXIMUM) 0-10V DIMMING WITH DIGITAL LINK. BASIS OF DESIGN: WATTSTOPPER LMRC-210 SERIES, OR EQUAL

ELECTRICAL SYMBOL LIST

FIRE ALARM SYMBOL LIST

- CEILING/WALL MOUNTED FIRE ALARM HEAT DETECTOR
- INFRARED BEAM DETECTOR (REFLECTOR/TRANSMITTER-RECEIVER)
- [illegible]
- WALL MOUNTED FIRE ALARM SYSTEM MANUAL PULL STATION AT 48" AFF
- CEILING/WALL MOUNTED FIRE ALARM SMOKE DETECTOR. DEVICES MAY HAVE THE FOLLOWING SUBSCRIPTS:
  - EL — DEVICE DEDICATED FOR ELEVATOR RECALL FUNCTION
  - R/T — BEAM SMOKE DETECTOR TRANSMITTER/RECEIVER
  - [illegible]
- [illegible]
- CEILING/WALL MOUNTED FIRE ALARM COMBINATION AUDIO (HORN)/VISUAL DEVICE, ADA COMPLIANT. NUMBER DENOTES CANDELA INTENSITY RATING. MINIMUM 15cd. MOUNTING HEIGHT FROM 80" UP TO A MAXIMUM OF 96" AFF
- CEILING/WALL MOUNTED FIRE ALARM VISUAL DEVICE (STROBE), ADA COMPLIANT. NUMBER DENOTES CANDELA INTENSITY RATING. MINIMUM 15cd. MOUNTING HEIGHT [illegible]
- CEILING/WALL MOUNTED FIRE ALARM AUDIO (SPEAKER) DEVICE. MOUNTING HEIGHT NOT LESS THAN 90" AFF AND 6" BELOW FINISHED CEILING
- FAAP — FIRE ALARM GRAPHIC ANNUNCIATOR PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FATC — FIRE ALARM TERMINAL CABINET

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS

A	AMPERE	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
		MDP	MAIN DISTRIBUTION PANEL
BRK	BREAKER		
		N	NEW
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NF	NON FUSED
CP	CONDENSATE PUMP	NL	NIGHT LIGHT FIXTURE ON A TIMER
		NTS	NOT TO SCALE
D	EXISTING TO BE DEMOLISHED		
DISCSW	DISCONNECT SWITCH	P	POLE
DP	DISTRIBUTION PANEL	PH	PHASE
DWG	[illegible]	PNL	PANEL
		PSRH	PROJECT STANDARD RECEPTACLE HEIGHT
E, EX	[illegible]	PSSH	PROJECT STANDARD SWITCH HEIGHT
EC	[illegible]		
EM	[illegible]	R	RELOCATED AT NEW LOCATION
EMT	[illegible]	RR	REMOVE AND RELOCATE
EW	[illegible]		
EWH	[illegible]	S/N	SOLID NEUTRAL
		SM	MOTOR THERMAL SWITCH
FAAP	[illegible]		CONTROL
FACP	[illegible]	SWBD	SWITCHBOARD
FATC	[illegible]		
FLA	[illegible]	TEL	TELEPHONE
		TXFMR	TRANSFORMER
G, GND	[illegible]	TYP	TYPICAL
GFI	[illegible]		
GND	[illegible]	UH	[illegible]
		UON	[illegible]
HP	[illegible]		
		V	[illegible]
IG	[illegible]		
IGH	[illegible]	W	[illegible]
		WP	[illegible]
KVA	[illegible]		
KW	[illegible]		

SHEET LIST

DRAWING NUMBER	SHEET TITLE
E001.1	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	ROOF PLAN
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
E501.1	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

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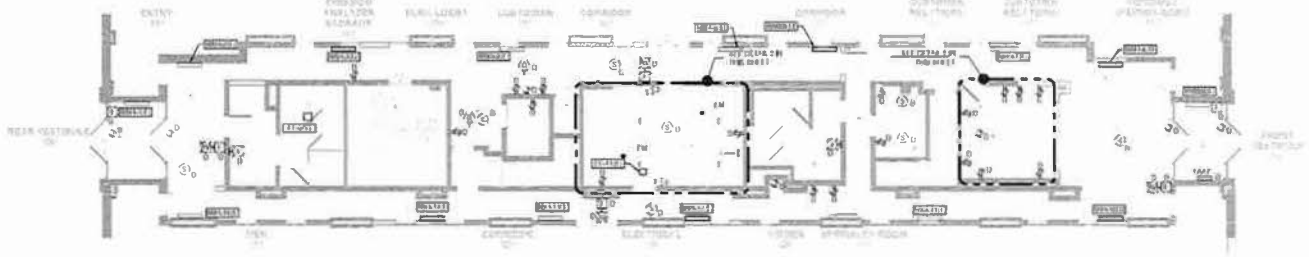
22 JUNE 2015

PERMIT SET

GENERAL NOTES, SYMBOLS & ABBREVIATIONS

E001.1



1 ED102.1 DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 1 - POWER

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

2 ED102.1 DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 1 - LIGHTING

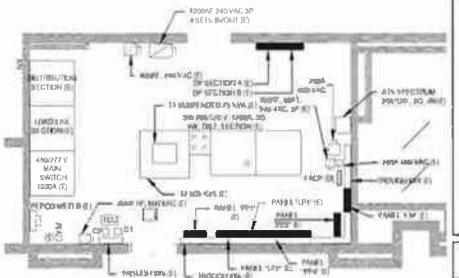
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E601 FOR THE PARTIAL POWER RISER DIAGRAM.
2. ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES AND EITHER WITH SUBSCRIPT "D" OR WITHOUT ANY SUBSCRIPT INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
3. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR EQUIPMENT BEING DEMOLISHED. REMOVE ASSOCIATED DEVICES AND FEEDERS BACK TO SOURCE OF SUPPLY.
4. ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
5. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.
6. COORDINATE WITH ARCHITECT AND BUILDING ENGINEER FOR ALL LIGHT FIXTURES, EXIT SIGNS AND DEVICES BEING DEMOLISHED WHICH ARE TO BE RETURNED TO BUILDING OWNER FOR STORAGE.
7. UNLESS OTHERWISE NOTED: REMOVE ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, CONDUITS, WIRING/CABLES SHOWN OR NOT SHOWN ON THE DEMOLISHED WALLS THROUGHOUT THE AREA OF WORK INCLUDING ALL FIRE ALARM VISUAL DEVICES (STROBE), SWITCHES, TELEPHONE/DATA, RECEPTACLES (WALL/CEILING/FLOOR). REMOVE ALL WIRING, CONDUIT BACK TO SOURCE OF SUPPLY. CUT BACK CAP, ABANDON ALL CONCEALED EXISTING CONDUITS WHICH ARE LOCATED IN CONCRETE WALL OR CEILING/FLOOR SLAB. REMOVE ALL WIRING FROM ANY ABANDONED CONDUITS BACK TO THE SOURCE OF SUPPLY.
8. DEMOLITION OF ANY FIRE ALARM DEVICE SHALL CLEAR ONLY AFTER THE NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED AND APPROVED. UNTIL NEW FIRE ALARM DEVICES ARE INSTALLED, ALL FIRE ALARM DEVICES SHALL REMAIN ACTIVE AND OPERATIONAL.

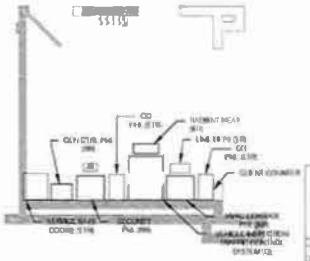
SHEET KEY NOTES

1. —



3 ED102.1 ENLARGED ELECTRICAL ROOM

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



4 ED102.1 ENLARGED CUSTOMERS RELATIONS ROOM

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

KEY PLAN

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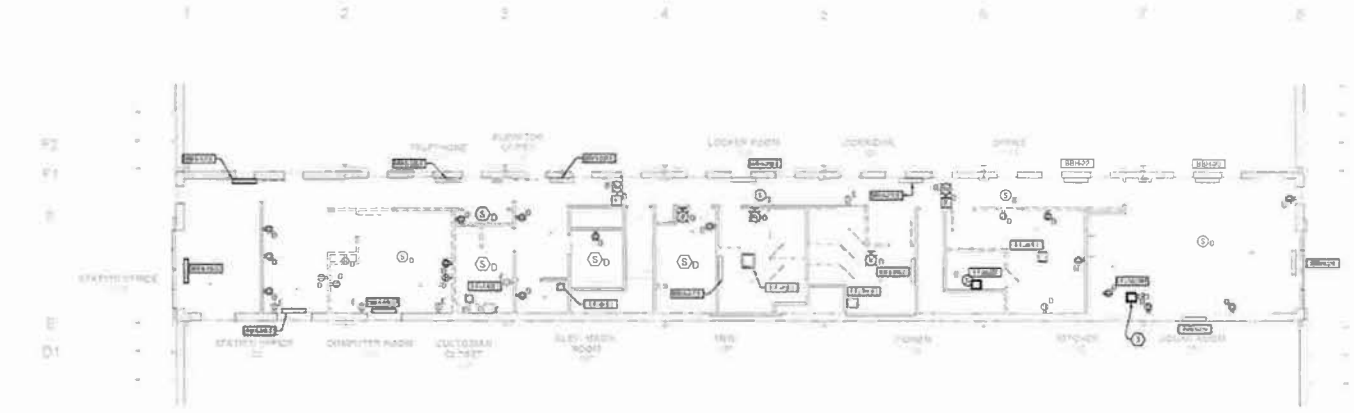
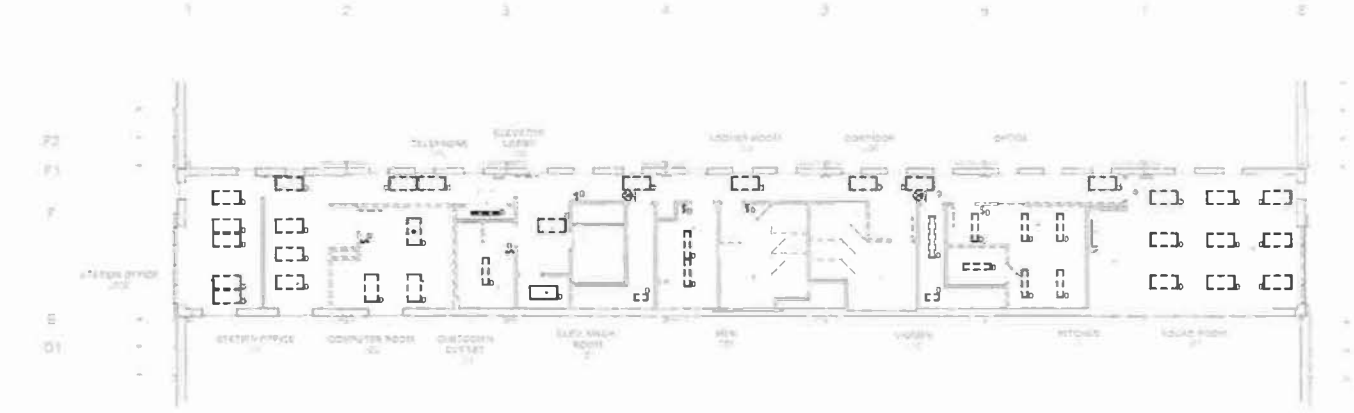
DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 1

ED102.1



1 ED103.1 DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 2 - POWER

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



2 ED103.1 DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 2 - LIGHTING

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

GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E501 FOR THE PARTIAL POWER RISER DIAGRAM.
2. ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES AND EITHER WITH SUBSCRIPT 'D' OR WITHOUT ANY SUBSCRIPT INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
3. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR EQUIPMENT BEING DEMOLISHED, REMOVE ASSOCIATED DEVICES AND FEEDERS BACK TO SOURCE OF SUPPLY.
4. ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
5. THE CONTINUITY OF ALL EXISTING CIRCUITS IS TO MAINTAINED BE MAINTAINED.
6. COORDINATE WITH ARCHITECT AND BUILDING ENGINEER FOR ALL LIGHT FIXTURES, EXIT SIGNS AND DEVICES BEING DEMOLISHED WHICH ARE TO BE RETURNED TO BUILDING OWNER FOR STORAGE.
7. UNLESS OTHERWISE NOTED, REMOVE ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, CONDUITS, WIRING/ROXES SHOWN OR NOT SHOWN ON THE DEMOLISHED WALLS THROUGHOUT THE AREA OF WORK INCLUDING ALL FIRE ALARM VISUAL DEVICES (STROBE), SWITCHES, TELEPHONE/DATA RECEPTACLES (WALL/CEILING/FLOOR), REMOVE ALL WIRING, CONDUIT BACK TO SOURCE OF SUPPLY, CUT BACK CAP, ABANDON ALL CONCEALED EXISTING CONDUITS WHICH ARE LOCATED IN CONCRETE WALL OR CEILING/FLOOR SLAB, REMOVE ALL WIRING FROM ANY ABANDONED CONDUITS BACK TO THE SOURCE OF SUPPLY.
8. REMOVE ALL MANUAL TOGGLE SWITCHES THROUGHOUT THE AREA. U.O.H.
9. DEMOLITION OF ANY FIRE ALARM DEVICE SHALL START ONLY AFTER THE NEW FIRE ALARM SYSTEM WILL BE INSTALLED, TESTED AND APPROVED UNTIL NEW FIRE ALARM BECOMES OPERATIONAL. ALL FIRE ALARM DEVICES SHALL BE MAINTAINED ACTIVE IN THE BUILDING.

KEY NOTES

1. REMOVE & RELOCATE EXISTING MECHANICAL EQUIPMENT, CONTRACTOR TO FIELD TRACE, INTERCEPT AND SPLICE THE EXIST. WIRING IN A NEW JUNCTION BOX OR PULL BOX, EXTEND EXISTING BRANCH CIRCUIT WIRING SERVING MECHANICAL EQUIPMENT, UTILIZING NEW SAME SIZE CONDUCTORS AND CONDUIT AS EXISTING AND RECONNECT BACK TO THE ORIGINAL CIRCUIT BREAKER. REFER TO DRAWING E102.1 FOR THE NEW LOCATION OF THE RELOCATED EQUIPMENT.

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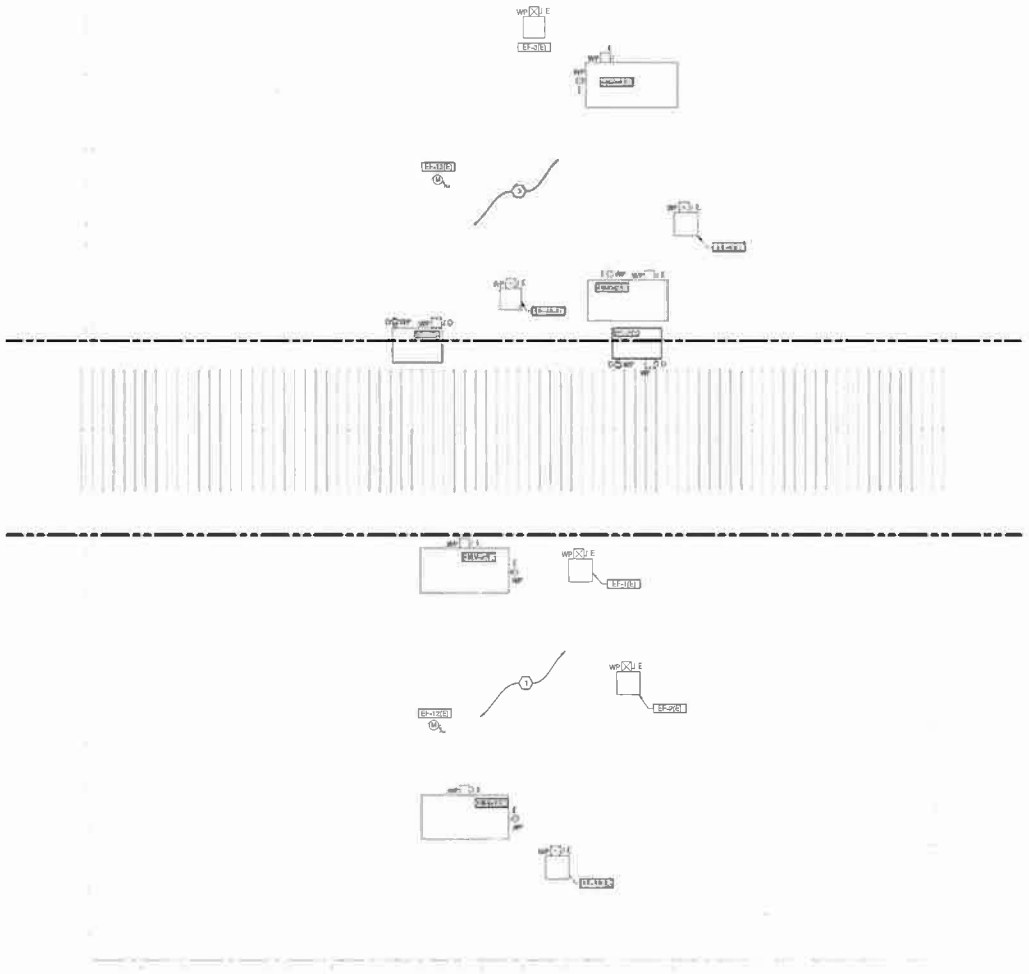
DEMOLITION WORK CUSTOMER SERVICE CTR LEVEL 2

ED103.1



1 ED104.1 DEMOLITION WORK - ROOF PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, GENERAL DEMOLITION NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWINGS E601 FOR THE PARTIAL POWER RISER DIAGRAM.
2. ALL ELECTRICAL DEVICES SHOWN ON THE DEMOLITION PLANS WITH DASHED LINES AND EITHER WITH SUBSCRIPT "D" OR WITHOUT ANY SUBSCRIPT INDICATE AN EXISTING DEVICE TO BE DEMOLISHED.
3. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR EQUIPMENT BEING DEMOLISHED. REMOVE ASSOCIATED DEVICES AND FEEDERS BACK TO SOURCE OF SUPPLY.
4. ALL EXISTING DEVICES TO REMAIN SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
5. COORDINATE WITH ARCHITECT AND BUILDING ENGINEER FOR ALL LIGHT FIXTURES, EXIT SIGNS AND DEVICES BEING DEMOLISHED WHICH ARE TO BE RETURNED TO BUILDING OWNER FOR STORAGE.

DEMOLITION KEY NOTES

1. ELECTRICAL WORK ON ROOF EQUIPMENT TO BE COORDINATED WITH MECHANICAL. DE-ENERGIZE MECHANICAL EQUIPMENT FROM POWER SOURCE. REMOVE CONDUITS, WIRING AND ASSOCIATED DISCONNECTED SWITCHES AND CONTROLS BACK TO SOURCE.

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SCALE

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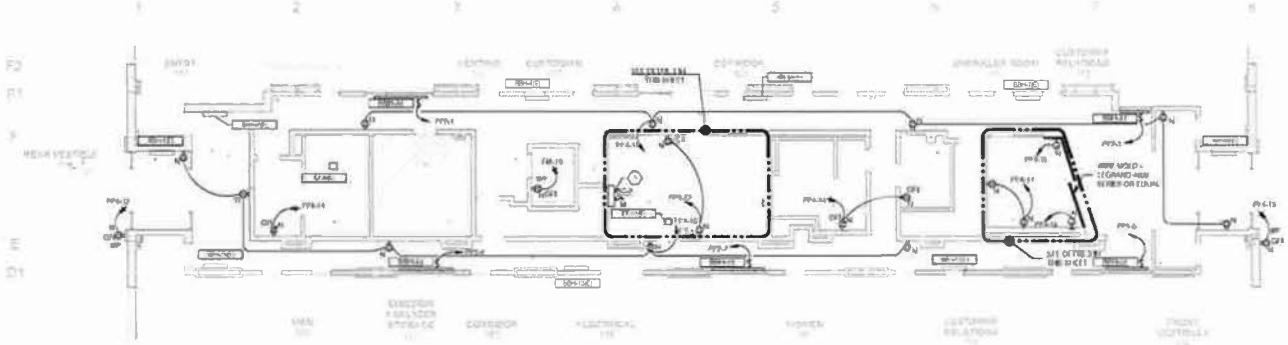
DRAWING
DEMOLITION WORK - ROOF PLAN

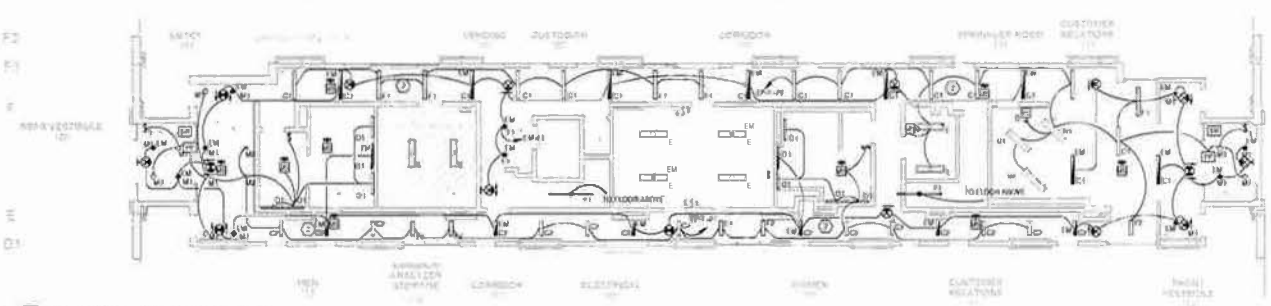
ED104.1

KEY PLAN



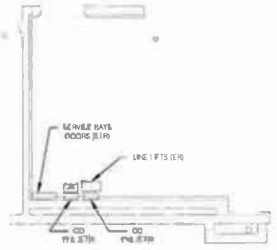
1 E102.1 NEW WORK PLAN - LEVEL 1 POWER

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



2 E102.1 NEW WORK PLAN - LEVEL 1 LIGHTING

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



4 E102.1 ENLARGED CUSTOMERS RELATIONS ROOM

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

LIGHTING GENERAL NOTES

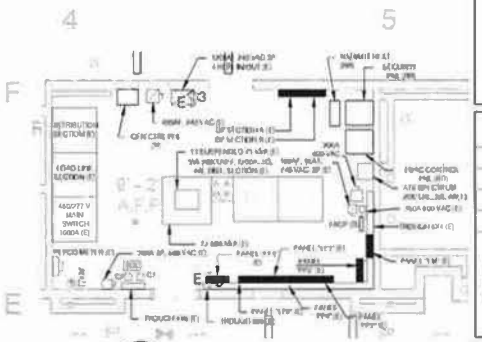
1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS, & DETAILS FOR EXACT LOCATION OF ELECTRICAL FIXTURE AND DEVICES.
3. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURE SO AS TO RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURE. REMBHED, DAMAGED OR UNSATISFACTORY FIXTURE SHALL BE REPLACED IN A SATISFACTORY MANNER.
4. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED. PROVIDE NEW BRANCH CIRCUIT WIRING AS SHOWN TO ACCOMMODATE FOR NEW CONSTRUCTION.
5. ALL REUSED CIRCUIT NUMBERS SHOWN ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH WITH THE ACTUAL CIRCUIT FOR THAT LOCATION. EXACT CIRCUIT NUMBERS SHOULD BE VERIFIED BY CONTRACTOR DURING CONSTRUCTION.
6. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL DEVICES EITHER SHOWN WITH A SUBSCRIPT LETTER IN OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED.
7. CLEAN/RELAMP/REBALLAST, IF REQUIRED, ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES TO REMAIN IN THE CONTRACT AREA. CONTRACTOR SHALL ENSURE THAT ALL REUSED FIXTURES SHALL BE IN GOOD WORKING CONDITION.

POWER GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS. REFER TO DRAWING E601 FOR PARTIAL POWER RISER DIAGRAM.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
3. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS.
4. ALL OUTLETS ON THE SAME ROOM CIRCUIT SHALL BE OF THE SAME COLOR.
5. ALL RECEPTACLES, TELECOMMUNICATION OUTLETS WITH ASSOCIATED WIRING, SHALL BE FLUSH MOUNTED. SURFACE MOUNTED OUTLETS, CONDUIT, RACEWAYS, ETC TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
6. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED. PROVIDE NEW BRANCH CIRCUIT WIRING AS SHOWN TO ACCOMMODATE FOR NEW CONSTRUCTION.
7. ALL REUSED CIRCUIT NUMBERS SHOWN ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH WITH THE ACTUAL CIRCUIT FOR THAT LOCATION. EXACT CIRCUIT NUMBERS SHOULD BE VERIFIED BY CONTRACTOR DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL DEVICES EITHER SHOWN WITH A SUBSCRIPT LETTER IN OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED.
9. CONTRACTOR TO TRACE ALL CIRCUITS AND IDENTIFY ALL LOADS BEFORE DISCONNECTING THEM FROM PANEL SCHEDULE. LEADS EXISTING TO REMAIN SHALL BE IDENTIFY ON PANEL SCHEDULES

KEY NOTES

1. POWER UP TO TOUCH-FREE OPENING OUTDOOR UNIT.
2. OCCUPANCY SENSORS TO BE CONFIGURED FOR 30 MINUTES OF NORMAL BUSINESS HOURS, DURING THE NORMAL BUSINESS HOURS (7:00AM - 5:00PM) THE TIME CLOCK WILL SEND A SIGNAL TO HOLD ON THE CORRIDOR LIGHTS. EMERGENCY LIGHTS SHALL BE CONTINUOUS ON AS NIGHT LIGHTS.



3 E102.1 ENLARGED ELECTRICAL ROOM

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

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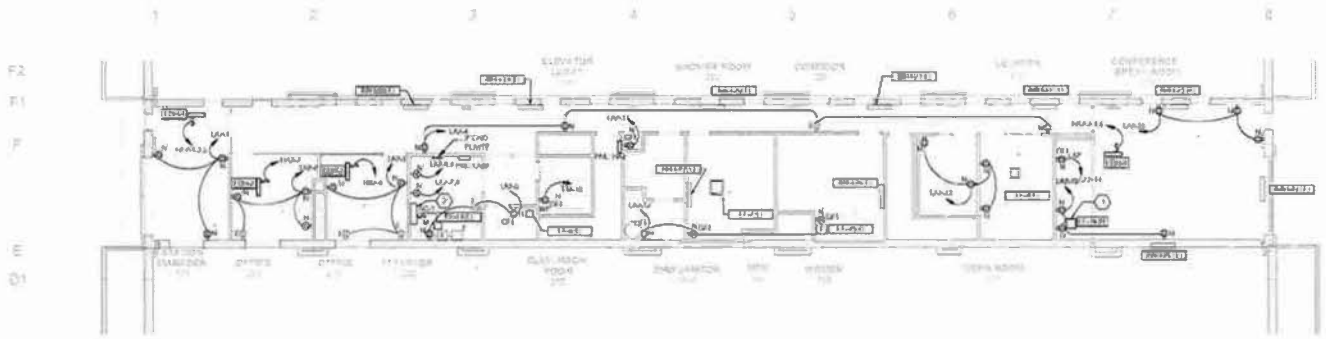
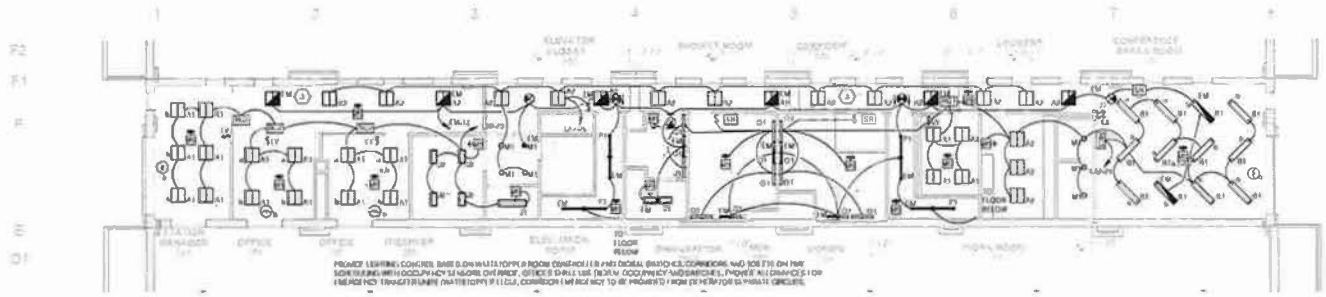
CUSTOMER SERVICE CTR LEVEL 1

E102.1



1 E103.1 NEW WORK PLAN - LEVEL 2 POWER

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



2 E103.1 NEW WORK PLAN - LEVEL 2 LIGHTING

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

LIGHTING GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS & DETAILS FOR EXACT LOCATION OF ELECTRICAL FIXTURE AND DEVICES.
3. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURE SO AS TO RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURE. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURE SHALL BE REPLACED IN A SATISFACTORY MANNER.
4. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED. PROVIDE NEW BRANCH CIRCUIT WIRING AS SHOWN TO ACCOMMODATE FOR NEW CONSTRUCTION.
5. ALL REUSED CIRCUIT NUMBERS SHOWN ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH WITH THE ACTUAL CIRCUIT FOR THAT LOCATION. EXACT CIRCUIT NUMBERS SHOULD BE VERIFIED BY CONTRACTOR DURING CONSTRUCTION.
6. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL DEVICES EITHER SHOWN WITH A SUBSCRIPT LETTER "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED.
7. CLEAN/RELAMP (REBALLAST, IF REQUIRED) ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES TO REMAIN IN THE CONTRACT AREA. CONTRACTOR SHALL ENSURE THAT ALL REUSED FIXTURES SHALL BE IN GOOD WORKING CONDITION.

POWER GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS. REFER TO DRAWING E501 FOR PARTIAL POWER RISER DIAGRAM.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
3. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS.
4. ALL OUTLETS ON EMERGENCY CIRCUITS SHALL BE RED IN COLOR.
5. ALL RECEPTACLES, TELECOMMUNICATION OUTLETS WITH ASSOCIATED WIRING SHALL BE FLUSH MOUNTED, SURFACE MOUNTED OUTLETS, CONDUIT, RACEWAYS, ETC TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
6. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED. PROVIDE NEW BRANCH CIRCUIT WIRING AS SHOWN TO ACCOMMODATE FOR NEW CONSTRUCTION.
7. ALL REUSED CIRCUIT NUMBERS SHOWN ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH WITH THE ACTUAL CIRCUIT FOR THAT LOCATION. EXACT CIRCUIT NUMBERS SHOULD BE VERIFIED BY CONTRACTOR DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL DEVICES EITHER SHOWN WITH A SUBSCRIPT LETTER "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED.
9. CONTRACTOR TO TRACE ALL CIRCUITS AND REMOVE ALL LOADS BEFORE DISCONNECTING THEM FROM PANEL SCHEDULE. LOADS EXISTING TO REMAIN SHALL BE IDENTIFY ON PANEL SCHEDULES.

KEY NOTES

1. CONTRACTOR TO EXTEND EXISTING BRANCH CIRCUIT WIRING AND ITS ASSOCIATED CONTROL/DEVICES WIRING SERVING MECHANICAL EQUIPMENT, UTILIZING NEW SAME SIZE CONDUCTORS AND CONDUIT AS EXISTING AND RECONNECT BACK TO THE ORIGINAL CIRCUIT BREAKER. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF THE RELOCATED EQUIPMENT.
2. PROVIDE 2 HANDLED CORRIDOR SPOTLIGHTS OUTDOOR UNIT.
3. DOCUMENTS SHOWN WILL TAKE CONTROL OVER CORRIDOR LIGHTING AFTER THE NORMAL BUSINESS HOURS. DURING THE NORMAL BUSINESS HOURS, IT WILL FOLLOW THE TIME CLOCK WILL SEND A DEMAND SIGNAL TO THE LIGHTS ON IN THE CORRIDOR. THE SIGNAL LIGHTS IN THE CORRIDOR SHALL BE CONTINUOUS ON AS NIGHT LIGHTS.

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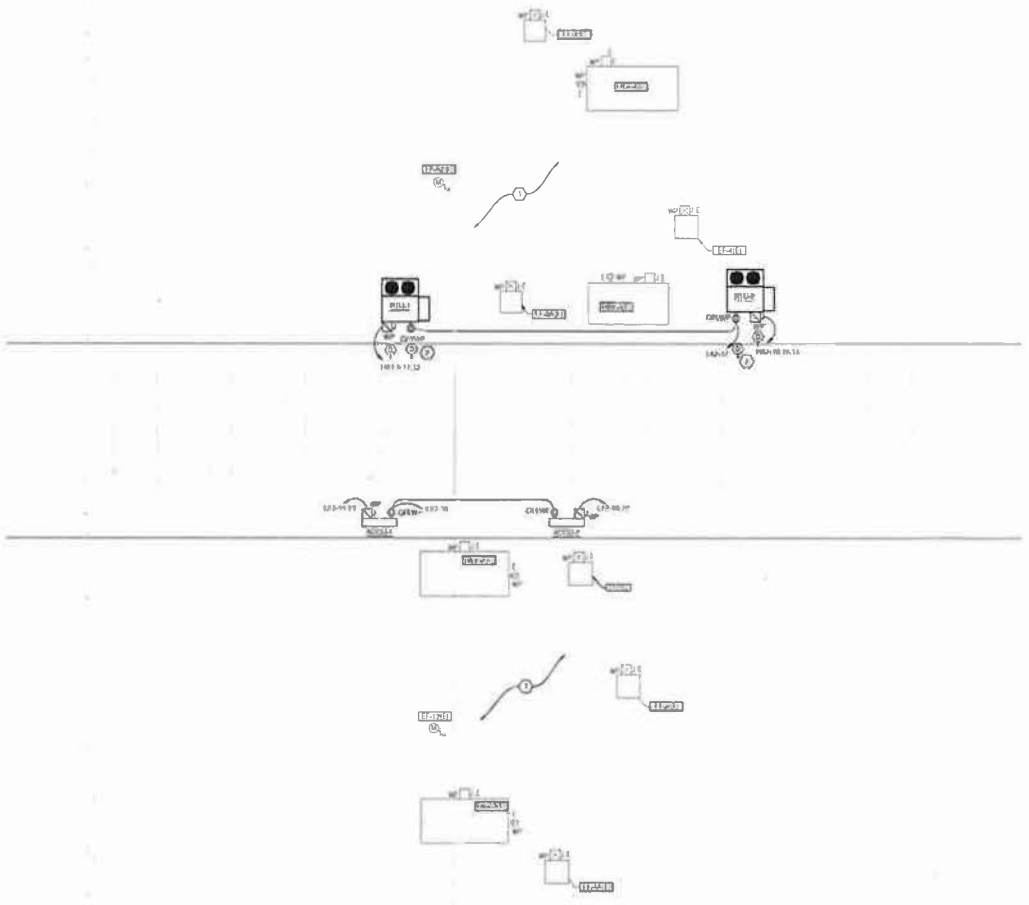
CUSTOMER SERVICE
QTR LEVEL 2

E103.1



1 E104.1 ROOF PLAN
SCALE: 3/32" = 1'-0"

POWER GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS. REFER TO DRAWING E501 FOR PARTIAL POWER RISER DIAGRAM.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
3. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS.
4. [illegible]
5. ALL RECEPTACLES, TELECOMMUNICATION OUTLETS WITH ASSOCIATED WIRING SHALL BE FLUSH MOUNTED. SURFACE MOUNTED OUTLETS CONDUIT, RACEWAYS, ETC TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
6. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED. PROVIDE NEW BRANCH CIRCUIT WIRING AS SHOWN TO ACCOMMODATE FOR NEW CONSTRUCTION.
7. ALL REUSED CIRCUIT NUMBERS SHOWN ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH WITH THE ACTUAL CIRCUIT FOR THAT LOCATION. EXACT CIRCUIT NUMBERS SHOULD BE VERIFIED BY CONTRACTOR DURING CONSTRUCTION.
8. [illegible]
ELECTRICAL DEVICES EITHER SHOWN WITH A SUBSCRIPT LETTER 'N' OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED.

KEY NOTES

1. ELECTRICAL WORK ON ROOF EQUIPMENT TO BE COORDINATED WITH MECHANICAL.
2. COORDINATE DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. CONNECT DUCT SMOKE DETECTORS TO FIRE ALARM CONTROL PANEL.

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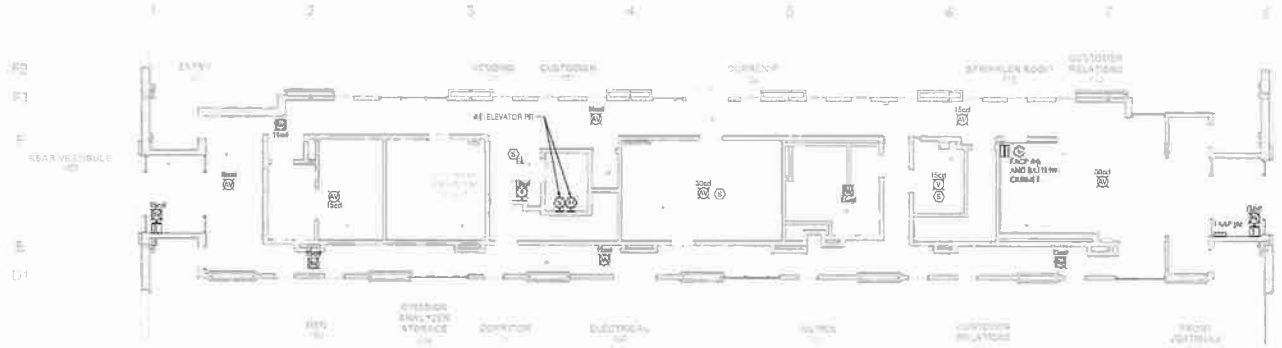
ROOF PLAN

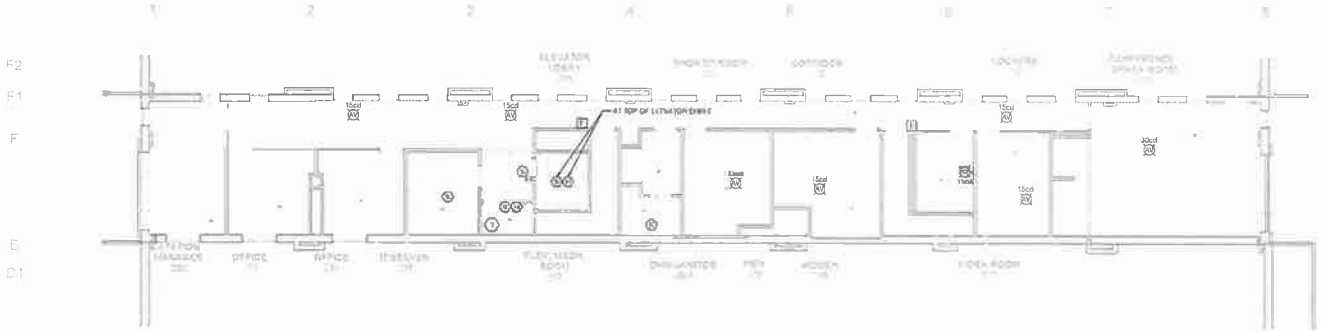
E104.1

KEY PLAN



1 E302.1 NEW WORK CUSTOMER SERVICE CENTER LEVEL 1 - FIRE ALARM

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



2 E302.1 NEW WORK CUSTOMER SERVICE CENTER LEVEL 2 - FIRE ALARM

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

GENERAL NOTES

1. REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES AND ABBREVIATIONS.
2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF DUCT SMOKE DETECTORS AND FIRE DAMPERS AND FIRE PROTECTION DRAWINGS FOR EXACT LOCATION OF FLOW AND TAMPER SWITCHES.
3. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS AND DETAILS PRIOR TO INSTALLATION OF ALL FIRE ALARM DEVICES. COORDINATE WITH THE ARCHITECT IN CASE OF A CONFLICT.
4. CONTRACTOR TO INSTALL ALL REQUIRED ELECTRICALR RELAYS FOR ELEVATOR RECALL SYSTEM TO MAINTAIN COMPATIBILITY WITH NEW FIRE ALARM CONTROL PANEL. WHEN THE NEW FIRE ALARM CONTROL PANEL BECOMES OPERATIONAL (INSTALLED, TESTED AND APPROVED), THE OLD RELAYS SHALL BE REMOVED.
5. CONTRACTOR TO ADD ANY REQUIRED EXTENSION PANEL TO PROVIDE REQUIRED POWER TO FIRE ALARM DEVICES LOCATED IN THIS PHASE, AS WELL AS FOR PHASE II. THE VOLTAGE DROP AND BATTER CALCULATION SHALL BE SUBMITTED AS SHOP DRAWINGS BY CONTRACTOR AS MENTION IN THE SPECIFICATIONS

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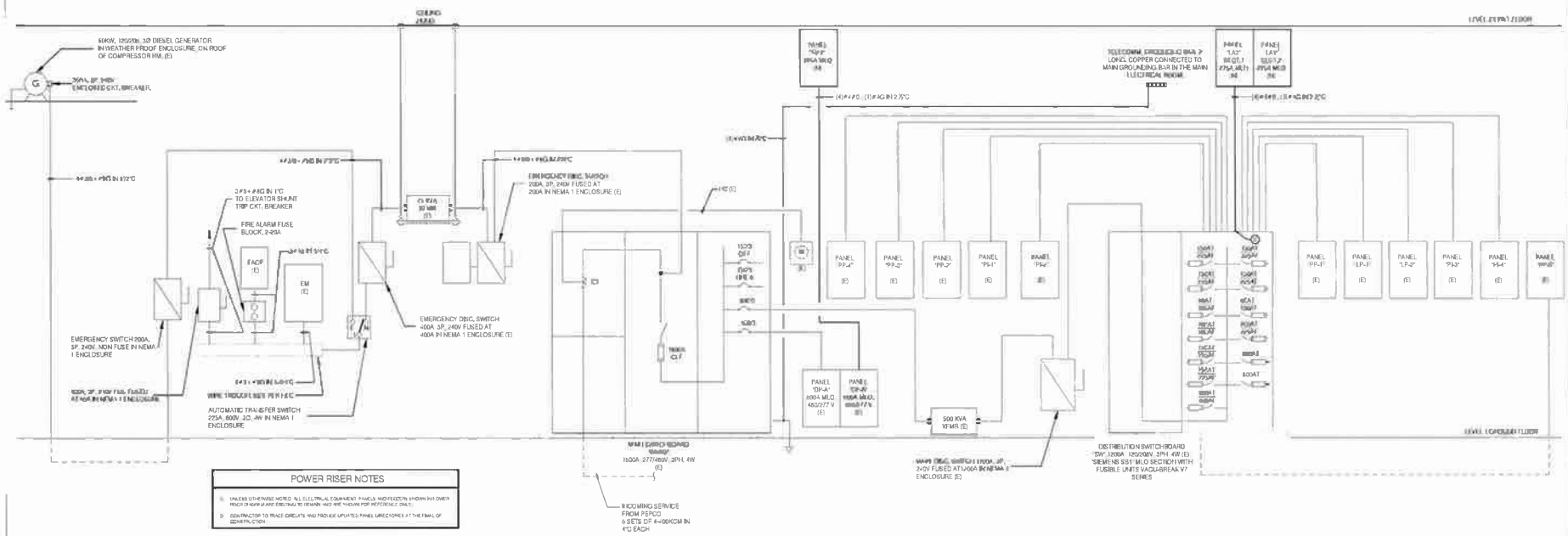
CUSTOMER SERVICE CENTER LEVEL 1 & LEVEL 2

E302.1

CUSTOMER SERVICE CENTER

KEY PLAN



POWER RISER NOTES

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, PANELS AND FEEDERS SHOWN IN POWER RISER DIAGRAM ARE EXISTING TO REMAIN AND ARE SHOWN FOR REFERENCE ONLY.
2. CONTRACTOR TO TRACE CIRCUITS AND PROVIDE UPDATED PANEL DIRECTORIES AT THE FINAL OF CONSTRUCTION.

KEY NOTES

1. [illegible]

SWITCHBOARD SCHEDULE (E)

[illegible]

CIRCUIT NUMBER	SERVING	CIRCUIT BREAKER FRAME	CIRCUIT BREAKER TRIP	CIRCUIT BREAKER A.I.C.	CONDUIT	CONDUCTORS	REMARKS
1.	PANEL PP-1	[illegible]	[illegible]	[illegible]	2	[illegible]	
2.	PANEL PP-2						
3.	PANEL PP-3						
4.	PANEL PP-4						
5.	RTU - 1 (DEMO)	100	[illegible]		1	[illegible]	
6.	RTU - 2 (DEMO)						
7.	PANEL PP-5		100		1 1/4	[illegible]	
8.	PANEL PP-6	[illegible]	[illegible]		[illegible]	[illegible]	
9.	PANEL LP-1		[illegible]				
10.	PANEL LP-2						
11.	PANEL PP-2						
12.	PANEL PP-3						
13.	PANEL PP-4	[illegible]	[illegible]		4	[illegible]	

1 / E501 ELECTRICAL POWER RISER DIAGRAM

SCALE: NTS

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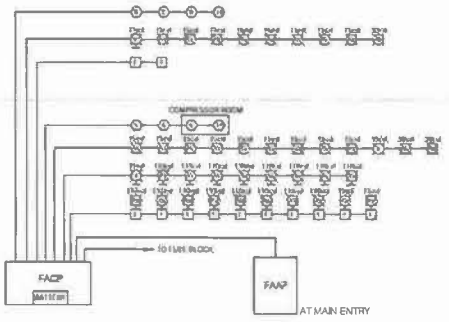
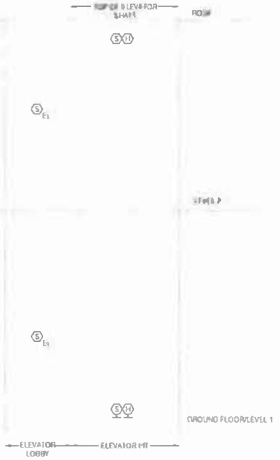
POWER RISER DIAGRAM

E501.1





1 E502.1 FIRE ALARM RISER DIAGRAM

SCALE: NOT TO SCALE

GENERAL NOTES

1. REFER TO DRAWING E502 FOR FIRE ALARM ANNUNCIATOR PANEL DETAIL AND FIRE ALARM OPERATION MATRIX.
2. REFER TO FLOOR PLANS FOR EXACT FIRE ALARM DEVICE QUANTITY AND LOCATIONS.
3. [illegible]

FIRE ALARM NOTES

1. [illegible] SHOP DRAWINGS OF THE PROPOSED FIRE ALARM SYSTEM TO THE LOCAL FIRE MARSHAL (A.H.J.) FOR APPROVAL PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW:
   - PRODUCT DATA SHEETS & EQUIPMENT DESCRIPTION.
   - COMPONENTS WIRING DIAGRAMS.
   - [illegible]
   - OPERATING INSTRUCTIONS & MAINTENANCE MANUAL DETAILING COMPONENT & GENERAL SYSTEM OPERATING DESCRIPTION.
   - [illegible]
   - DETAIL OF ANNUNCIATOR PANEL.

   ANY REVISIONS AND/OR ADDITIONS REQUIRED BY LOCAL JURISDICTION PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
2. THIS RISER DIAGRAM IS OFFERED AS THE CONCEPTUAL SYSTEM ARCHITECTURE AND DOES NOT CONTAIN ALL OF THE INFORMATION NEEDED TO INSTALL THE SYSTEM. IT IS INTENDED TO BE USED AS A GUIDE. THE SYSTEM MUST MEET THE SPECIFICATIONS REQUIREMENTS. THE AUDIO-VISUAL DEVICES MUST BE DESIGNED AND INSTALLED TO MEET NFPA 72 REQUIREMENTS AND ADA REQUIREMENTS.
3. FACP WILL BE HOUSED IN A LOCKED ENCLOSURE WITH A GLASS DOOR DESIGNED FOR EASY VIEWING OF THE ALPHANUMERIC DISPLAY, OTHER THAN THE OUTSIDE DOOR KEY, NO ADDITIONAL KEY WILL BE REQUIRED TO UTILIZE SYSTEM ACKNOWLEDGE, SILENT PROGRAMMING FUNCTIONS SHOULD BE PROTECTED FROM ACCIDENTAL ACTIVATION BY BYPASS AND RESET FUNCTIONS AND THE USE OF A PASSWORD SYSTEM.
4. [illegible] FACP MANUAL EXCEPTION: STATIONS KING-FISHER RADIO TRANSMITTER ENCLOSURES SHOULD UTILIZE THE STANDARD KING-FISHER KEY. REMOTE MICROPHONE ENCLOSURE WILL BE KEYED DIFFERENTLY.
5. THE FIRE ALARM SYSTEM SHALL BE CONNECTED AND IN-SERVICE 14 CALENDAR DAYS PRIOR TO THE FINAL ACCEPTANCE TEST. ALL DEVICES SHALL BE FIELD TESTED PRIOR TO THE FINAL TEST PER NFPA STANDARDS. ONE SET OF AS-BUILTS AND THE R/ TRANSMITTER/ANTENNA INSTALLATION CERTIFICATION SHALL BE PROVIDED ON THE DAY OF THE ACCEPTANCE TEST. AN UPDATED PRINTOUT OF FIRE ALARM DEVICES, DEVICE STATUS AND LOCATION OF DEVICES WILL ALSO BE NEEDED. ALL FIRE ALARM ENCLOSURES MUST BE CLEARED OF EXCESSIVE DEBRIS, DIRT AND DUST, PAINT OVER SPRAY, UNUSED PARTS AND WIRING. ALL DEVICES AND FACILITY MUST BE CLEAN AND DUST FREE AND SHALL BE INSTALLED BEFORE THE ACCEPTANCE TEST IS CONDUCTED.
6. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF ALL FIRE ALARM DEVICES AND FIRE PROTECTION DRAWINGS FOR SPRINKLER FIRE PROTECTION DEVICES.
7. [illegible]
8. REFER TO ARCHITECTURAL DRAWINGS, ELEVATIONS AND DETAILS PRIOR TO INSTALLATION OF ALL ELECTRICAL DEVICES. COORDINATE WITH THE ARCHITECT IF REQUIRED DURING CONSTRUCTION.

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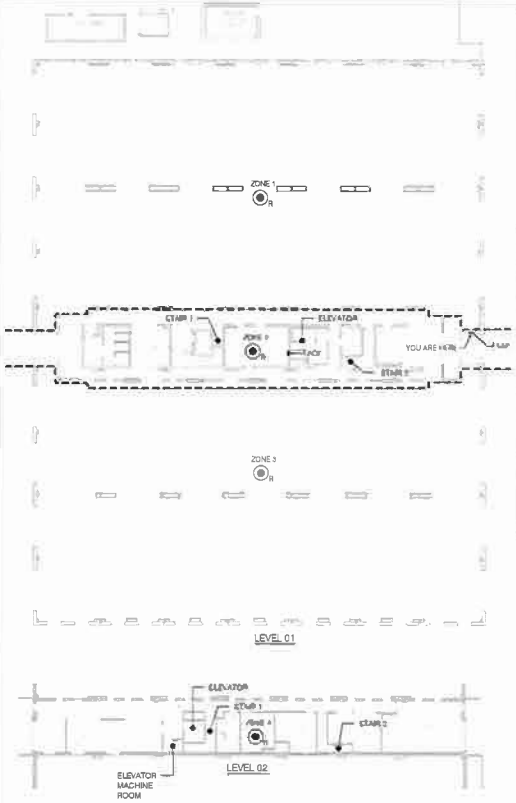
FIRE ALARM RISER DIAGRAM

E502.1



SYSTEMS INPUT	SYSTEMS OUTPUT: GENERAL EVACUATION ALARM	OUTPUT TO FIRE ALARM SYSTEM	AUDIBLE & VISUAL ALARM SIGNAL AT FACP	AUDIBLE & VISUAL SUPERVISORY SIGNAL AT FACP	OUTPUT SIGNAL TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL	OUTPUT SIGNAL FOR ELEVATOR POWER SHUTDOWN	
AREA ROOM SMOKE DETECTOR	●	●	●				
DUCT SMOKE DETECTOR				●			
WATER FLOW SWITCH	●	●	●				
MONITOR SWITCH (VALVE TAMPER)				●			
MANUAL PULL STATION	●	●	●				
SMOKE DETECTOR AT ELEVATOR LOBBY	●	●	●		●		
ELEVATOR SHAFT SMOKE DETECTOR	●	●	●		●		
ELEVATOR SHAFT HEAT DETECTOR		●	●			●	

FIRE ALARM OPERATIONAL MATRIX

UNDER FIRE CONDITION - ELEVATOR EMERGENCY OPERATION SHALL BE AS FOLLOWS

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

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

C. ELEVATOR SHAFT HEAT DETECTORS SHALL DISCONNECT POWER TO ELEVATOR MOTOR WITHIN THAT SHAFT AND ANNUNCIATE TROUBLE AT ANNUNCIATOR PANEL.

D. ELEVATOR MACHINE ROOM HEAT DETECTOR SHALL DISCONNECT POWER TO ELEVATOR AND ANNUNCIATE TROUBLE AT ANNUNCIATOR PANEL.

E. ELEVATOR MACHINE ROOM SPRINKLER FLOW SWITCH SHALL SOUND GENERAL ALARM, ANNUNCIATE APPROPRIATE LAMPS AT ANNUNCIATOR PANEL AND DISCONNECT ELEVATOR POWER.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- MH MOUNTING HEIGHT

ANNUNCIATOR

- R RED LAMP
- G GREEN LAMP
- A AMBER LAMP
- PUSH BUTTON
- KEY SWITCH

ALARM DEVICES

- R MANUAL PULL STATION
- R SMOKE DETECTOR
- R HEAT DETECTOR
- A TAMPER SWITCH
- R SPRINKLER FLOW SWITCH
- A STANDPIPE FLOW
- R ELEVATOR LOBBY SMOKE DETECTOR
- R ELEVATOR CONTROL CLOSET
- R ELEVATOR CONTROL CLOSET SMOKE DETECTOR
- A STAIR 1
- A STAIR 2
- R SPARE

FLOORS

- R LEVEL 01
- R LEVEL 02
- R SPARE

SYSTEM CONTROL

- G POWER ON
- A SYSTEM TROUBLE
- G GENERATOR RUN
- A SPARE

EMERGENCY GENERATOR

- ON
- AUTO
- G RUNNING
- R OFF
- EPO

SYSTEM CONTROL

- LAMP TEST
- TROUBLE BUZZER
- TROUBLE SILENCE
- RESET SWITCH
- ALARM SIGNAL DEACTIVATION
- SUPERVISORY SYSTEM SILENCE

N

FIRE ALARM ANNUNCIATOR PANEL

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FIRE ALARM ANNUNCIATOR PANEL DIAGRAM

E503.1

COMcheck Software Version 4.0.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: [illegible]
Project Title: [illegible]
Project Type: [illegible]

Construction Site: 15001, 1001 HALF STREET, SW, WASHINGTON, AL 20024
Owner/Agent: ISTUDIO, ARCHITECTURE DESIGN PLANNING, 1611 CONNECTICUT AVE #200, WASHINGTON, AL 20009, 202 758 2037
Designer/Contractor: SETTY & ASSOCIATES, 5185 MACARTHUR BLVD NW, SUITE #220, WASHINGTON, AL 20016, 202 393 1521

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Workshop	33681	1.60	54219
		Total Allowed Watts =	54219

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
[illegible]				
LED 1: L1: HIGH BAY LIGHT: Other	1	84	238	19992
LED 2: M1/M2: RECESSED DOWNLIGHT: Other	1	27	14	369
LED 3: J1/J2: UTILITY SPACES LIGHTING FIXTURE: Other	1	2	41	82
LED 4: C1: RECESSED LED SLOT: Other	1	17	19	326
LED 5: C2: RECESSED LED SLOT: Other	1	19	10	144
LED 6: A1: 2X2 RECESSED LAY IN LED: Other	1	15	28	504
LED 7: A2: 2X2 RECESSED LAY IN LED: Other	1	19	24	456
[illegible]	1	4	23	92
LED 9: B1: PENDANT MOUNTED LED: Other	1	12	17	204
LED 10: G1: UTILITY SPACES LIGHTING FIXTURE: Other	1	17	32	384
Linear Fluorescent 1: P1: FLUORESCENT 8FT: Other: Electronic	1	6	32	192
LED 11: F1: 4FT LED LINEAR: Other	1	6	26	125
LED 12: F2: 2FT LED LINEAR: Other	1	5	13	65
LED 13: N1: 4FT PENDANT: Other	1	3	47	141
			Total Proposed Watts =	23096

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.0 and to comply with the mandatory requirements listed in the Inspection Checklist.

Project Title: DMV INSPECTION STATIONS — Report date: 06/22/15
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COMcheck Software Version 4.0.0
Inspection Checklist

Energy Code: 2012 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

2012 IECC	Plan Review	Complies?	Comments/Assumptions
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

2012 IECC	Final Inspection	Complies?	Comments/Assumptions
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

UNIT MARK	UNIT DESCRIPTION	VOLTAGE / PHASE	HP	LOAD KW	FLA	MCA	MOCP	UNIT DISC. SW	INDIVIDUAL STARTER	FEEDER	REMARKS
AC-1	INDOOR AIR CONDITIONING UNIT	120/1	-	0.03	0.33	1	15	SM	-	2 #12 + 1 #12G - 3/4" C	POWERED THROUGH OUTDOOR UNIT
AC-2	INDOOR AIR CONDITIONING UNIT	120/1	-	[illegible]	[illegible]	[illegible]	15	SM	-	2 #12 + 1 #12G - 3/4" C	POWERED THROUGH OUTDOOR UNIT
ACCU-1	OUTDOOR CONDENSING UNIT	208/1	-	-	0.35	[illegible]	20	30/20	-	2 #12 + 1 #12G - 3/4" C	PROVIDE NEMA 3R DISC. SWITCH
ACCU-2	OUTDOOR CONDENSING UNIT	208/1	-	-	[illegible]	25	40	50/40	-	2 #8 + 1 #10G - 1" C	PROVIDE NEMA 3R DISC. SWITCH
RTU-1	ROOF TOP UNIT	480/3	-	-	22.6	24.8	30	60/30	-	3 #10 + 1 #10G - 3/4" C	PROVIDE NEMA 3R DISC. SWITCH
RTU-2	ROOF TOP UNIT	480/3	-	-	24.1	28.3	30	60/30	-	3 #10 + 1 #10G - 3/4" C	PROVIDE NEMA 3R DISC. SWITCH
EDH-1	ELECTRIC DUCT HEATER	480/3	-	4	4.8	-	15	SM	-	3 #12 + 1 #12G - 3/4" C	
EDH-2 & 3	ELECTRIC DUCT HEATER	277/1	-	1.5	5.4	-	15	SM	-	[illegible]	
EDH-4	ELECTRIC DUCT HEATER	480/3	-	10	12	-	20	SM	-	3 #12 + 1 #12G - 3/4" C	
[illegible]	ELECTRIC UNIT HEATER	208/1	-	2	9.6	-	20	SM	-	2 #12 + 1 #12G - 3/4" C	
EUH-31	ELECTRIC UNIT HEATER	208/1	-	1	4.8	-	20	SM	-	2 #12 + 1 #12G - 3/4" C	
EUH-32	ELECTRIC UNIT HEATER	208/1	-	1.5	7.2	-	20	SM	-	2 #12 + 1 #12G - 3/4" C	

NOTES:
1. ALL OUTDOOR DISCONNECT SWITCHES SHALL BE NEMA 3R ENCLOSURE TYPE UNLESS OTHERWISE NOTED.
2. ALL FUSE SIZE FOR EQUIPMENT DISCONNECT SWITCH SHALL BE BASED ON EQUIPMENT'S NAME PLATE AS PER EQUIPMENT MANUFACTURER RECOMMENDATION.

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTAGE	REMARKS
A1		2x2 RECESSED LAY IN LED HIGH-EFFICIENCY MODULE 0-10V 10% DIMMING DRIVER, GRID MOUNTED	FOCAL POINT	FEOL-22-AL-2500LH-35K-1C-UNV-LD1-G-WH, OR EQUAL	LED 28W [illegible]	120	
A2		2x2 RECESSED LAY IN LED MODULE, NON-DIMMING, GRID MOUNTED	FOCAL POINT	FEOL-22-AL-2000L-35K-1C-UNV-SD5-G-WH, OR EQUAL	LED 24W SYSTEM, 83 LPW	120	
B1		[illegible] 0-10V, 10% DIMMING DRIVER, [illegible] 1000 LUMENS [illegible]	LITECONTROL	P-ID-L12-04-SOF-STD-35K-24-D10-CWA-D10-CWO-120-LK, OR EQUAL	LED [illegible] UPLIGHT, 12W DOWNLIGHT	120	
C1		RECESSED LED SLOT, HIGH EFFICIENCY LENS, NON-DIMMING LED DRIVER, 480 LUMEN/FT, 4.8W/FT DELIVERED	STARFIRE LIGHTING	VL4-LP835-S-48-F-1, OR EQUAL	LED 19.2W	120	COORDINATE CEILING FLANGES AND OTHER ACCESSORIES WITH CEILING PROVIDER AND WITH ARCHITECT
C2		RECESSED LED SLOT, HIGH EFFICIENCY LENS, NON-DIMMING LED DRIVER, 480 LUMEN/FT, 4.8W/FT DELIVERED	STARFIRE LIGHTING	VL4-LP835-S-24-F-1, OR EQUAL	LED 9.6W	120	
F1		SURFACE LED LENSED STRIP, NON-DIMMING LED [illegible] LUMEN, 25W, 4FT LONG	HE WILLIAMS	75L-4-LED-PH20/835-A-2125-EDD-PH-UNV, OR EQUAL	LED 25W	120	
F2		SURFACE LED LENSED STRIP, NON DIMMING LED 1000 LUMEN, 13W, 2FT LONG	HE WILLIAMS	75L-2-LED-PH10/835-A-2125-EDD-PH-UNV, OR EQUAL	LED 13W	120	
G1		INDUSTRIAL CANOPY, LED LAMP, 80+ CRI, 25000-27500LM, BEAM ANGLE TBD	LEDWATTS	LW-HB250W, OR EQUAL, OR EQUAL	LED LAMP, POWER TBD	120	
H1		[illegible]	LUMIERE	MONACO 8000A CF57, OR EQUAL	CFL 57W	120	SHALL FIT WITHIN EXISTING SPACE
J1/J2		[illegible]	LITHONIA LIGHTING	[illegible]	[illegible] 23W [illegible]	[illegible]	[illegible]
K1		[illegible]	[illegible] COOPER LIGHTING	N2S8-426-71 EM1	(2) FLUORESCENT T5 28W	120	
L1		[illegible]	[illegible]	JHBL-12000LM-GL-WD-120-GZ10-40K-70CRI-[illegible]	236W LED	120	PHASE I OF CONSTRUCTION
M1		RECESSED DOWNLIGHT, 4" SQUARE, LED LAMP	PRESCOLITE	LF4SQLEDG4-4SQLEDSG4-35K-XX-WT-BX, OR EQUAL	[illegible]	120	COORDINATE FINISHES COLORS WITH ARCHITECT. COORDINATE MOUNTING ACCESSORIES WITH SITE CONDITIONS
M2		RECESSED DOWNLIGHT, 4" SQUARE, WALL WASH, LED LAMP	PRESCOLITE	LF4SQLEDG4-WW-4SQLEDSG4-35K-XX-WT-BX, OR EQUAL	[illegible]	120	COORDINATE FINISHES COLORS WITH ARCHITECT. COORDINATE MOUNTING ACCESSORIES WITH SITE CONDITIONS
N1		PENDANT MOUNTED, 4' LONG, DIRECT/INDIRECT OUTPUT LED LAMPS, 0-10V, 10% DIMMING DRIVER, 2350 LUMENS, 3500K	TECH LIGHTING	700LSJORN-X-LED-3500K, OR EQUAL	LED 47W	120	[illegible] MOUNTING ACCESSORIES WITH SITE CONDITIONS. PREFERRED 3500K LED, OR 3000K AS [illegible]
O1		[illegible]	LIGHTOLIER	PTST-2, LENGTH RUN AS SHOWN ON DRAWINGS, END PLATE SET PER FIXTURE RUN	[illegible] 3500K	120	COORDINATE MOUNTING ACCESSORIES WITH SITE CONDITIONS
P1		SURFACE MOUNTED, 6"X6", (1) T8 32W FLUORESCENT LAMPS PER 4FT SECTION, DELIVERED AS 8FT SECTION	LIGHTOLIER	SO6-1-8-D-[illegible], OR EQUAL	[illegible] 3500K	120	COORDINATE MOUNTING ACCESSORIES WITH SITE CONDITIONS
X		EXIT SIGN FIXTURE	SURE LITES	CX-7-X-X-SD-R-X-X	1W LED	120	CONNECT ON SWITCHED. PROVIDE ACCESSORIES FOR INSTALLATION AND PICTOGRAMS AS REQUIRED. SINGLE OR DUAL-FACE AS SHOWN ON DRAWINGS

NOTES:
1. PROVIDE FIXTURES WITH ALL NECESSARY ACCESSORIES TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
2. COORDINATE WITH ARCHITECT FOR ALL FIXTURE FINISHES, LENS ACCESSORIES, CEILING TYPE AND MOUNTING REQUIREMENTS.
3. ALL EMERGENCY LIGHT FIXTURES SHALL [illegible] EMERGENCY LIGHTING SHALL BE [illegible] GENERATOR POWER
4. ALL DIMMER SWITCHES MUST BE COMPATIBLE WITH DIMMABLE BALLASTS. CONTRACTOR TO ENSURE ALL SWITCHES ARE RATED TO ACCOMMODATE THE LOAD REQUIREMENTS OF ASSOCIATED LIGHTING CIRCUIT
5. UNLESS OTHERWISE NOTED, ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH [illegible] LAMPS.
6. UNLESS OTHERWISE NOTED, ALL LIGHT FIXTURES INDICATED ON PLANS AS TO BE CONTROLLED WITH [illegible] SHALL BE PROVIDED WITH [illegible] BALLASTS AND DIMMERS
7. COORDINATE WITH ARCHITECT [illegible] FOR EACH LOCATION AND MOUNTING REQUIREMENTS FOR ALL [illegible] FIXTURES.
8. ALL APPLICABLE LIGHT FIXTURES, SWITCHES, BALLASTS AND ASSOCIATED ACCESSORIES MUST BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM SERVING THE SPACE.

EMERGENCY LIGHTING LEGEND

2012 IECC	Final Inspection	Complies?	Comments/Assumptions
C405.2.1 [illegible]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.3 [illegible]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [illegible]	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2 [illegible]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2 [illegible]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[illegible]	[illegible]	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: DMV INSPECTION STATIONS — Report date: 06/22/15
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LIGHTING FIXTURE SCHEDULE NOTES

1. ALL LIGHTING FIXTURES SHALL BE PROVIDED COMPLETELY WITH ALL LAMPS, WIRE, CONTROLLER AND SECURELY ATTACHED TO SUPPORTS.
2. WHERE BOTH NARRATIVE AND/OR PICTORIAL FIXTURE DESCRIPTION ARE PROVIDED THE WRITTEN DESCRIPTION SHALL TAKE PRECEDENCE AND PREVAIL.
3. ALL FIXTURES AND WORKMANSHIP SHALL BE GUARANTEED FREE OF DEFECTS AND FULLY OPERATIONAL FOR A MINIMUM OF ONE YEAR AFTER THE ACCEPTANCE OF THE PROJECT BY THE OWNER. FIXTURES OR WORKMANSHIP (EXCLUDING LAMPS) FOUND TO BE DEFECTIVE DURING THE WARRANTY PERIOD WILL BE EITHER FIXED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
4. LOCATION OF THE FIXTURES ARE SHOWN DIAGRAMMATICALLY. VERIFY EXACT LOCATION AND SPACING WITH PLANS AND THE ARCHITECTS AT THE SITE DURING INSTALLATION IF REQUIRED. NOTIFY THE ARCHITECT ABOUT FIELD CONDITIONS AT VARIANCE WITH CONTRACT DOCUMENTS [illegible]
5. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN CONTRACT AREAS SO AS TO RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES SHALL BE REPLACED IN A SATISFACTORY MANNER.
6. REFER TO ARCHITECTURAL PLANS, ELEVATIONS FOR EXACT FIXTURES MOUNTING REQUIREMENTS (WALL OR CEILING) PRIOR TO INSTALLATION.

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ELECTRICAL SCHEDULES

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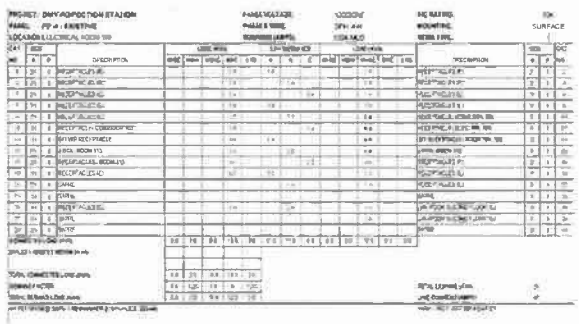

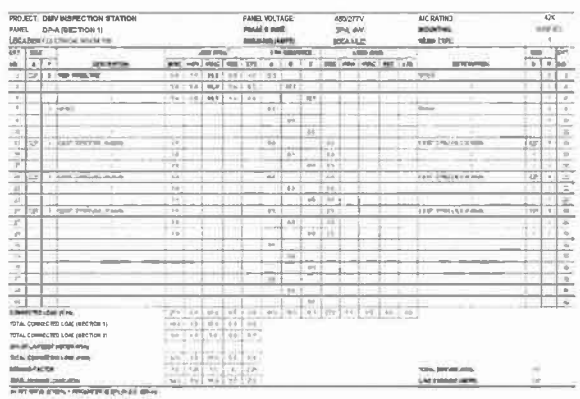

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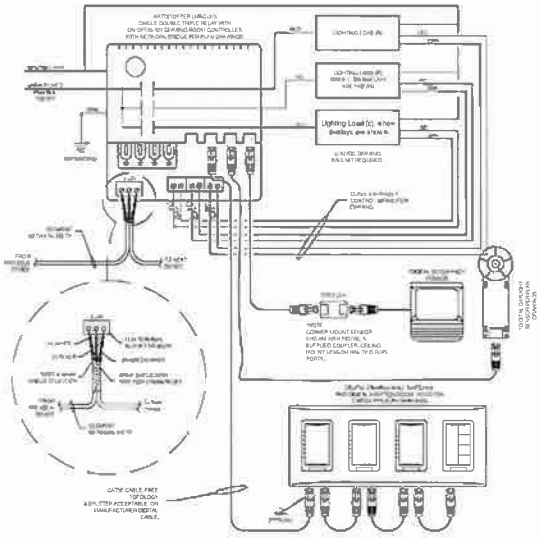
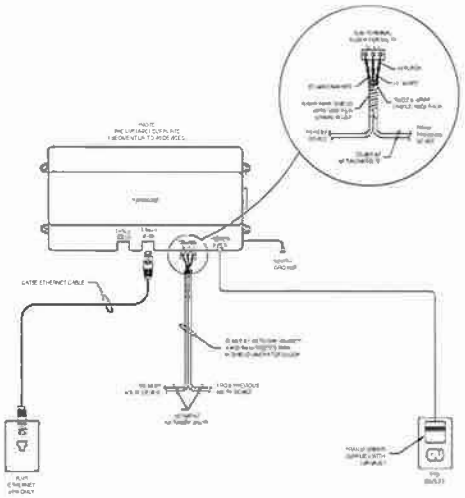
SHEET NAME
ELECTRICAL PANEL SCHEDULES

E602.1



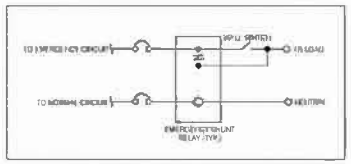
5 E701 TYPICAL WIRING FOR ROOM CONTROLLER WITH 0-10V DIMMING
SCALE: NTS



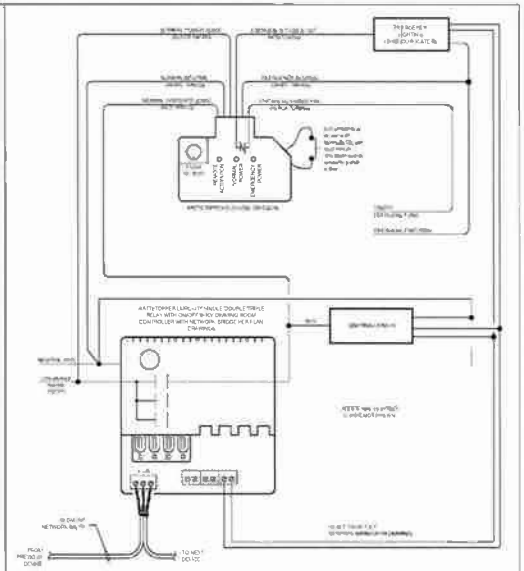
GENERAL NOTES

FOR FULL OPERATIONAL DETAILS, ADJUSTMENTS AND MORE FEATURES OF THE PRODUCT, SEE THE DLM SYSTEM INSTALLATION GUIDE AT www.wattstopper.com

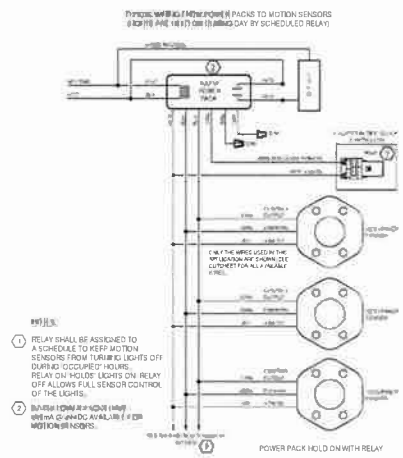
3 E701 DIGITAL LIGHTING MANAGEMENT - ETHERNET INTERFACE
SCALE: NTS



4 E701 EMERGENCY SHUNT RELAY WIRING DIAGRAM
SCALE: NTS



1 E701 TYPICAL WIRING FOR EMERGENCY SHUNT RELAY WITH DIMMING
SCALE: NTS



NOTES:

1. RELAY SHALL BE ASSIGNED TO A SCHEDULE TO KEEP MOTION SENSORS FROM TURNING LIGHTS OFF DURING 'OCCUPIED' HOURS. RELAY ON 'HOLDS' LIGHTS ON. RELAY OFF ALLOWS FULL SENSOR CONTROL OF THE LIGHTS.
2. [illegible] MOTION SENSORS.

POWER PACK HOLD ON WITH RELAY

2 E701 TYPICAL WIRING FROM POWER PACKS TO MOTION SENSORS
SCALE: NTS

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ELECTRICAL - TYPICAL WIRING DIAGRAMS

E701.1

Symbol	Description
X (box)	FLOOR BOX MOUNTED TELECOM OUTLET
X (circle)	POKE THROUGH MOUNTED TELECOM OUTLET
X (circle)	CEILING MOUNTED TELECOM OUTLET
X	WALL MOUNTED TELECOM OUTLET
P	1 CAT 6 VOICE
D	[illegible]
DD	[illegible]
Q	[illegible]
A1	[illegible]
A	[illegible]
AV	[illegible]
W	[illegible]
VC	VOLUME CONTROLLER
SP	INTERCOM CEILING SPEAKER
HS	INTERCOM HORN SPEAKER
D	INTRUSION DETECTION DOOR CONTACT
M	INTRUSION DETECTION MOTION DETECTOR
W	INTRUSION DETECTION WIDE AREA MOTION DETECTOR
SP	INTRUSION DETECTION SECURITY PANEL
KP	INTRUSION DETECTION KEYPAD
AI	AIPHONE INTERIOR STATION
AE	AIPHONE EXTERIOR STATION
	FIXED CCTV CAMERA
	PTZ CCTV CAMERA

(1) TECHNOLOGY SYMBOLS
NO SCALE

1.–25. [illegible]

(2) TECHNOLOGY GENERAL NOTES
NO SCALE

1. ALL IN-SCOPE SPACES SHALL HAVE EXISTING LOW VOLTAGE CABLES REMOVED.
2. CABLES SHALL NOT BE LEFT IN SPACES OR PATHWAYS THAT ARE NOT CONNECTED TO DEVICES.
3. SOME EXISTING DEVICES SHALL REMAIN AND BE REUSED. CONTRACTOR SHALL VERIFY DEVICES TO REMAIN AND PRESERVE DEVICES FOR REINSTALLATION AND REUSE.
4. COORDINTE WITH OWNER FOR DEVICES TO REMAIN.
5. SYSTEMS SHALL NOT BE DEMOLISHED UNTIL THE NEW SYSTEM IS IN PLACE AND READY FOR ACTIVATION.
6. ANY EQUIPMENT BEING REMOVED MUST BE VERIFIED BY THE OWNER PRIOR TO REMOVAL AND THEN GIVEN TO THE OWNER.

(4) TECHNOLOGY DEMO NOTES
NO SCALE

1. ALL EXISTING LOW VOLTAGE CABLES SHALL BE REMOVED WHETHER CONNECTED TO A DEVICE OR NOT. DEVICES SHALL ALL RECEIVE NEW CABLING.
2. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LOW VOLTAGE PATHWAYS INCLUDING BUT NOT LIMITED TOO CONDUITS, BOXES, JUNCTION BOXES, SLEEVES, CHASES, RACEWAYS, CABLE TRAYS AND J-HOOKS TO PROPERLY SUPPORT THE LOW VOLTAGE INFRASTRUCTURE.
3. CABLES SHALL BE SUPPORTED BY J-HOOKS NO MORE THAN 5' APART THROUGHOUT THE ENTIRE AREA OF NEW WORK AND RENOVATION. PROVIDE AN INSTALL J-HOOKS IN APPROPRIATE QUANTITY TO SUPPORT THE ANTICIPATED CABLE LOW VOLTAGE CABLE LOAD.
4. PROVIDE AND INSTALL A COMPLETE TELECOM GROUNDING AND BONDING SYSTEM INCLUDING ALL TGBS, TMGBS, BONDING CONDUCTORS, LUGS, NUTS, CABLES AND CONNECTORS. BOND TO THE MAIN GROUNDING SYSTEM IN THE BUILDING.
5. PROVIDE A COMPLETE NEW DATA NETWORK INFRASTRUCTURE INCLUDING ALL CABLING, PATHWAYS, TERMINATION EQUIPMENT, CROSS-CONNECTS, RACKS, CABINETS, CABLE MANAGERS, POWER STRIPS, PATCH PANELS AND ASSOCIATED COMPONENTS. OWNER SHALL PROVIDE ACTIVE DATA AND TELEPHONE ELECTRONICS. EXISTING DATA NETWORK SHALL REMAIN ACTIVE UNTIL THE NEW DATA NETWORK IS COMPLETELY INSTALLED AND READY FOR ACTIVATION.
6. PROVIDE AND INSTALL A COMPLETE TELEPHONE INFRASTRUCTURE SYSTEM INCLUDING ALL CABLING, PATHWAYS, TERMINATIONS AND ASSOCIATED COMPONENTS. EXISTING TELEPHONE SYSTEM SHALL REMAIN ACTIVE UNTIL THE NEW TELEPHONE SYSTEM IS COMPLETELY INSTALLED AND READY FOR ACTIVATION.
7. PROVIDE AND INSTALL A COMPLTE CATV SYSTEM INCLUDING AMPS, TAPS, SPLITTERS, RG-11 TRUNK CABLE, RG-6 DROP CABLES, F CONNECTORS AND ASSOCAITED COMPONENTS FOR A COMPLETE SYSTEM.
8. PROVIDE AND INSTALL A COMPLETE NEW PUBLIC ADDRESS SYSTEM INCLUDING ALL CABLING, PATHWAYS, TERMINATION DEVICES, END USER DEVICES, HANDSETS, SPEAKERS, ADDITIONAL HEADEND ELECTRONICS AND ASSOCIATED COMPONENTS. THE SYSTEM MUST BE INTERCONNECTED TO THE TELEPHONE SYSTEM AT THE FACILITY.
9. PROVIDE AND INSTALL A COMPLETE NEW INTRUSION DETECTION SYSTEM INCLUDING ALL MOTION DETECTORS, DOOR CONTACTS, KEYPADS, PANELS, BATTERY BACKUP UNITS, CABLES AND ASSOCIATED COMPONENTS FOR A COMPLETE AND ACTIVE SYSTEM.
10. PROVIDE AND INSTALL A NEW IP CCTV INFRASTRUCTURE SYSTEM THAT REUSES THE OWNER'S CAMERAS. PROVIDE AN INSTALL ALL CAMERAS, LENSES, MOUNTS, HOUSINGS, STRUCTURED CABLING AND ASSOCIATED COMPONENTS.
11. PROVIDE A WIRELESS SITE SURVEY DURING CONSTRUCTION TO ACCURATELY LOCATE WAPS. A MINIMUM OF 1 Gbps SHALL BE ACHIEVED THROUGHOUT THE FACILITY. PROVIDE UP TO 4 ADDITIONAL DATA DROPS FROM WHAT IS SHOWN ON THE TECHNOLOGY PLANS IF NECESSARY FOR ADDITIONAL WAPS.
12. TWO CATEGORY 6 CABLE DROPS SHALL BE USED FOR EACH WIRELESS ACCESS POINT.
13. ALL CATEGORY 6 CABLE DROPS FOR WIRELESS SHALL BE ORANGE IN COLOR.
14. ALL CATEGORY 6 CABLES IN THE DESIGNATED LOCATIONS SHALL BE TERMINATED ON CAT 6 KEYSTONE STYLE JACK (RJ45 NOT ACCEPTABLE).
15. IF THE TERMINATION IS IN THE AREA WHERE THERE IS A DROP-DOWN CEILING OF NOT MORE THAN 12 FT HIGH, THE JACK DOES NOT NEED TO BE MOUNTED ON A WALL BUT REQUIRES A SURFACE MOUNT BOX (EXAMPLES-PANDUIT CBX2WHAY, HELLERMANN TYTON SMBDUAL-W OR SIMILAR PRODUCT LINE.
16. IF THE TERMINATION IS IN THE AREA WHERE THERE IS NO DROP DOWN CEILING OR IF THE HEIGHT OF THE CEILING IS MORE THAN 12 FT, THE WAP TERMINATION POINT SHALL BE MOUNTED ON A WALL (EXACT LOCATION PER DESIGN SPECIFICS).
17. SURFACE MOUNT BOX WITH CAT 6 KEYSTONE STYLE JACKS WITH PRINTED LABEL AND A WRITTEN LABEL.
18. THE SURFACE MOUNT BOX SHALL BE MOUNTED 8FT ABOVE GROUND.
19. THE SURFACE MOUNT BOX SHALL BE AROUND THE FOLLOWING DIMENSIONS (4.9"H X 3.25"W X 1.8"D).
20. FIRE ALARM AND BAS SYSTEMS ARE NOT PART OF THIS SCOPE OF WORK.

(5) TECHNOLOGY SCOPE NOTES
NO SCALE

ITEM NO.	DESCRIPTION	QTY.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

CATALOG NO.	FINISH	DESCRIPTION	BUSBAR PATTERN	QTY.
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

(3) TECHNOLOGY GROUNDING SYSTEM
N.T.S.

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SYMBOLS AND NOTES

T000.1

1. INDICATED PATHWAYS SHALL REMAIN TO BEDDING FLOOR POINT OF DEMARCATION FOR SERVICE PROVIDERS.
2. COORDINATE WITH OWNER FOR INCOMING SERVICES.
3. PROVIDE ADDITIONAL PATHWAYS AS DEEMED SIMILAR TO EXISTING PATHWAYS WHERE REQUIRED DUE TO EXISTING BUILDING CONSTRAINTS.
4. BEDDING FLOOR ROOM SHALL SERVE AS THE POINT OF DEMARCATION.

1 SITE PLAN
1/16" = 1'-0"

KEY PLAN

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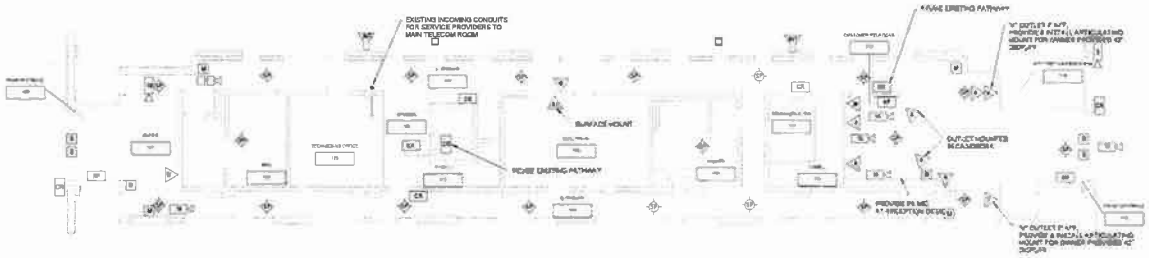
SITE PLAN

T100.1



FIRST FLOOR - LEVEL 1 CUSTOMER SERVICE CENTER
1/8" = 1'-0"

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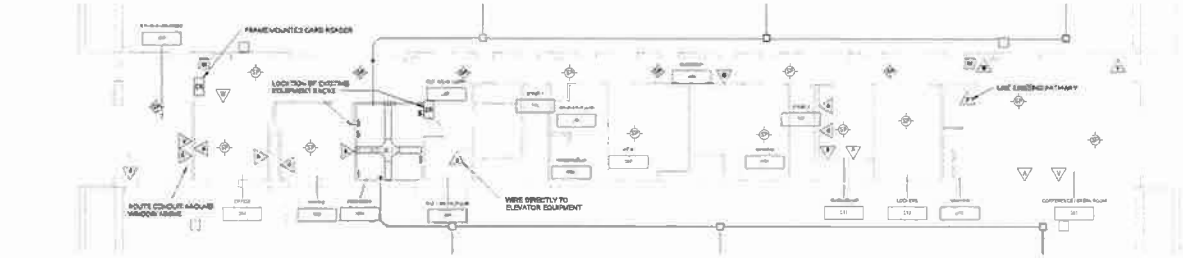
CUSTOMER SERVICE CTR LEVEL 1

T103.1



SECOND FLOOR - LEVEL 2 CUSTOMER SERVICE CENTER
1/8" = 1'-0"

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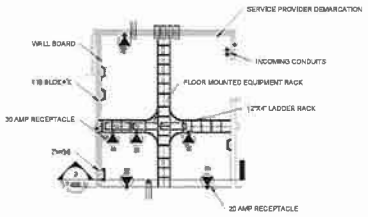
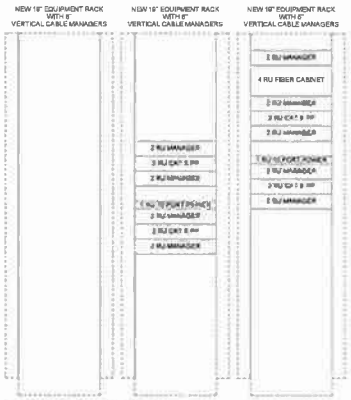
CUSTOMER SERVICE CTR LEVEL 2

T104.1

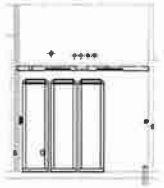


1 MDF

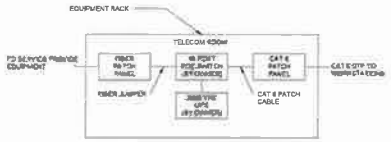


2 TELECOM ROOM RACK ELEVATION

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY 4" CONDUIT FOR LOW VOLTAGE SYSTEMS.
2. ALL EXISTING LOW VOLTAGE CABLING SHALL BE REMOVED DURING DEMOLITION AND SHALL BE CONNECTED TO A DEVICE OR BE REMOVED AND RECYCLED. PASSIVE COMPONENTS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGERS, TERMINATIONS, CROSS-CONNECTS, 110 BLOCKS, 66 BLOCKS, MOUNTING BRACKETS, BRACKETS TO EXISTING AND SOME EQUIPMENT MAY BE REMOVED, DATA AND VIDEO INFRASTRUCTURE.
3. CABLES SHALL BE PROPERLY SUPPORTED USING CONDUITS, CABLE TRAY AND J-HOOKS SECURED TO BAR JOISTS, LOW VOLTAGE CABLES WHERE REQUIRED, PROVIDE AND INSTALL NEW J-HOOKS TO SUPPORT CABLES ON 5'-0" CENTERS.
4. ACTIVE COMPONENTS SHALL BE PROVIDED BY OWNER. THESE INCLUDE SWITCHES, ROUTERS, UPS EQUIPMENT WITH RACKS AND MOUNTINGS. WORK MUST BE COORDINATED WITH OWNER AT TIME OF CONSTRUCTION.
5. NEW HORIZONTAL CAT 6 DATA CABLE SHALL BE RUN FROM WORKSTATIONS TO NEW CAT 6 PATCH PANELS. PROVIDE 20% SPARE CAPACITY.
6. NEW HORIZONTAL CAT 6 TELEPHONE CABLES SHALL BE RUN FROM WORKSTATIONS TO CAT 6 PATCH PANELS. PROVIDE 20% SPARE CAPACITY.
7. NEW ETHERNET DATA CABLES SHALL BE RUN FROM WORKSTATIONS TO WITH DATA TERMINATIONS AND MDF.
8. ALL 66 TDM CABLES AND FIBER RUNS/PULLS MUST BE INCLUDED WITH THIS SCOPE OF WORK FOR BOTH ENDS OF CABLES.
9. NEW BREAKER CABLING SHALL BE RUN AND TERMINATED IN WALL MOUNTED CROSS-CONNECTS AND PUNCH BLOCKS IN A SIMILAR method TO EXISTING BLOCK AND CABINET EQUIPMENT.
10. 10' OF CABLES SHALL SHALL BE LEFT IN THE TELECOM ROOM AND 2' SHALL BE LEFT AT THE CEILING ABOVE EACH OUTLET.
11. WIRELESS EQUIPMENT AND CONDUIT BOLLARDS SHALL BE PROVIDED BY OWNER. COORDINATE INFRASTRUCTURE WORK WITH OWNER EQUIPMENT AT THE TIME OF CONSTRUCTION.
12. CABLES SHALL BE NEATLY AND LOOSELY BUNDLED USING VELCRO STRAPS. ZIP TIES ARE NOT ACCEPTABLE.
13. WIRES SHALL NOT BE INSTALLED IN WAYS THAT PUT WIRES WITH HIGH VOLTAGE CABLES, AND A MINIMUM OF 6" SEPARATION MUST BE MAINTAINED.

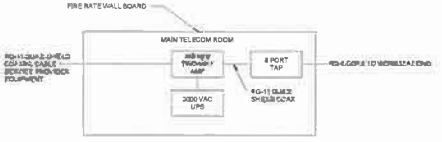


3 TELECOM ROOM SECTION



1. PROVIDE AN INSTALL NEW BACKBONE FIBER FROM THE SERVICE PROVIDE EQUIPMENT TO OWNER'S PREMISE EQUIPMENT.
2. PROVIDE AND INSTALL NEW EQUIPMENT RACKS.
3. PROVIDE AND INSTALL NEW FIBER AND COPPER PATCH PANELS.
4. PROVIDE AND INSTALL NEW CAT 6 PATCH PANELS.
5. PROVIDE AND INSTALL NEW HORIZONTAL CAT 6 UTP CABLE AND PATCH CORDS FOR BOTH ENDS OF THE CABLE.
6. INSTALL WITH 3' OF CABLE SLACK AT THE WORKSTATION END AND 10' OF SLACK AT THE RACK.

4 DATA & VOIP CONNECTION DIAGRAM



1. PROVIDE AND INSTALL NEW BACKBONE RG-11 QUAD SHIELD COAX TO CATV HEADEND.
2. PROVIDE AND INSTALL NEW TAP AND BIDIRECTIONAL AMP.
3. PROVIDE AND INSTALL NEW DROP RG-6 QUAD SHIELD COAXIAL CABLE AND PATCH CORD FOR THE END MOTATION OF THE CABLE.

5 CATV LINE DIAGRAM

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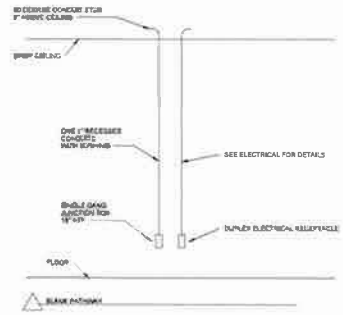
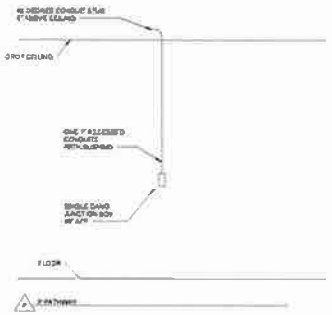
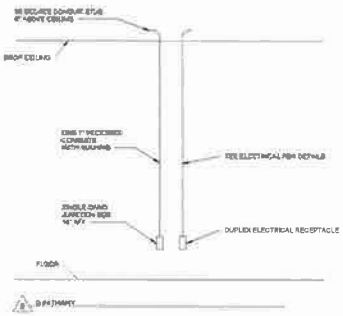
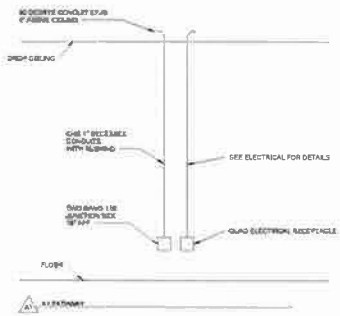
TELECOM ROOM

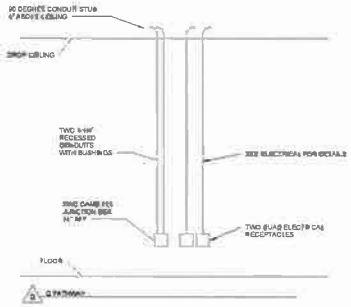
T400.1

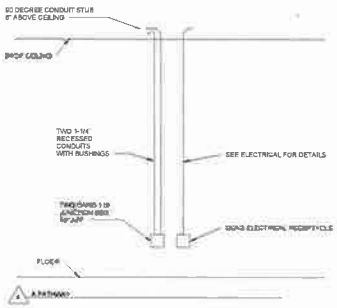


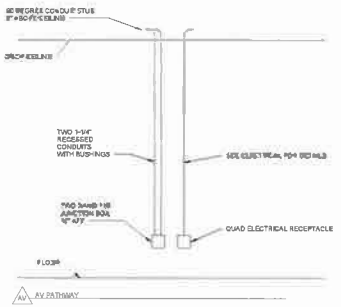


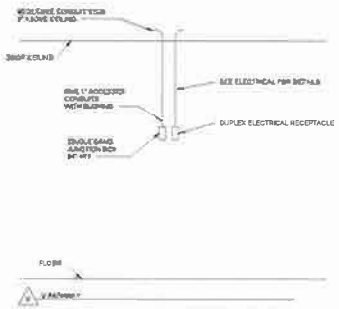


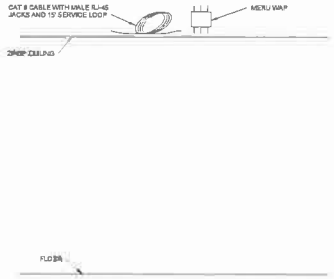


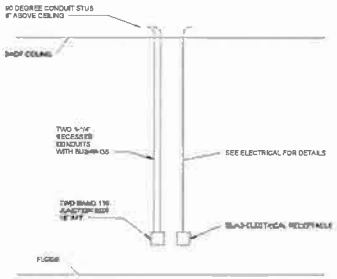


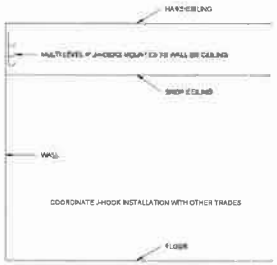












TYPICAL J-HOOK INSTALLATION FOR CABLE DISTRIBUTION

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE PATHWAYS.
2. ELECTRICAL AND LOW VOLTAGE OUTLETS SHALL BE LOCATED APPROXIMATELY 6" APART.
3. SINGLE GANG BOXES SHALL BE A MINIMUM OF 2-1/4" DEEP X 4" TALL.
4. DOUBLE GANG BOXES SHALL BE SIMILAR TO GARVIN INDUSTRIES 2-1/8" DEEP X 4-11/16" SQUARE WITH FOUR 1/2" KNOCKOUTS.

1 TECHNOLOGY PATHWAYS
SCALE: NTS

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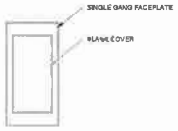
PATHWAY DETAILS

T401.1



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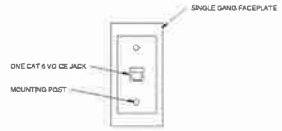

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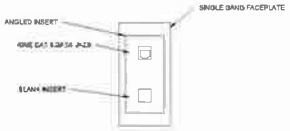

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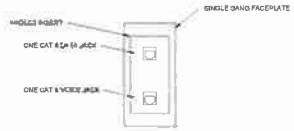

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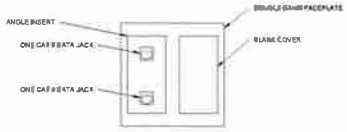

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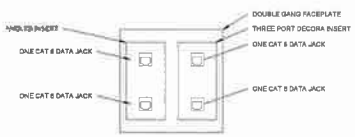

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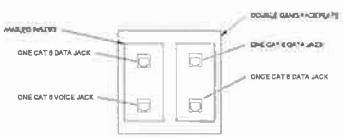

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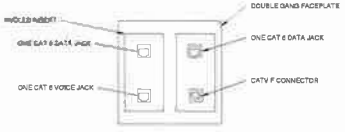
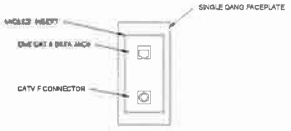


AV FACEPLATE



V FACEPLATE

1. SEE DCNET WIRELESS STANDARDS.
2. 15' OF CABLES SLACK SHALL BE PROVIDED AT W LOCATIONS.
3. CABLES SHALL BE TERMINATED AND TESTED.

W FACEPLATE

1. FACEPLATES MUST USE ANGLED CONNECTORS TO MAINTAIN CAT 6 BEND RADIUS REQUIREMENTS WHERE REQUIRED.
2. ALL PORTS IN FACEPLATES MUST BE CLEARLY LABELED.
3. PATCH CABLES ARE REQUIRED FOR BOTH ENDS OF CABLES.
4. PROVIDE PLATES AND BLANKS FOR ANY OPEN JUNCTION BOX.
5. ALL PORTS SHALL BE FILLED.

1 TECHNOLOGY FACEPLATES
N.T.S.

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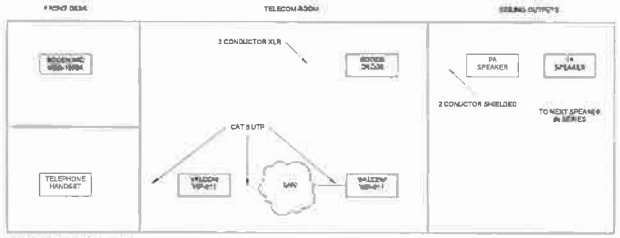
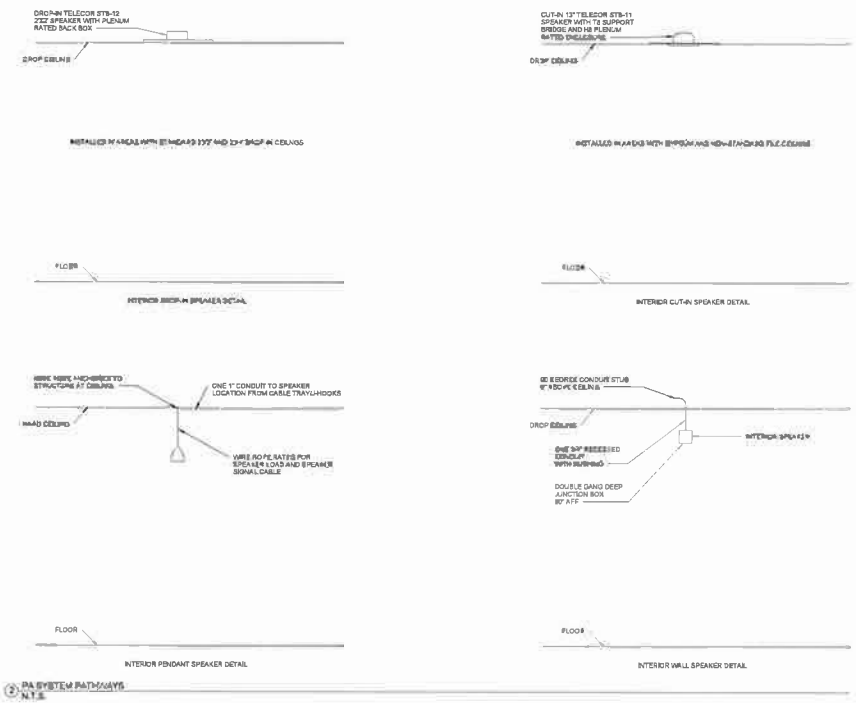
FACEPLATES

T402.1



1 PA SYSTEM LINE DIAGRAM
N.T.S.



2 PA SYSTEM PATHWAYS
N.T.S.

NOTES:

1. PROVIDE AND INSTALL ALL REQUIRED PATHWAYS, CABLING, RACK EQUIPMENT, MICS, ELECTRONICS AND SPEAKERS FOR THE PUBLIC ADDRESS SYSTEM AS DESCRIBED IN THE TECHNOLOGY DRAWINGS.
2. ELECTRONICS FOR THE PUBLIC ADDRESS SYSTEM SHALL BE PROVIDED, INSTALLED AND TESTED AND BE SHOWN TO BE FREE FROM DEFECT.
3. HEADEND EQUIPMENT SHALL BE LOCATED IN THE SERVER ROOM.
4. THE PA SYSTEM SHALL OVERRIDE ALL LOCAL SOUND SYSTEMS. PROVIDE AND INSTALL NECESSARY SHUNT DEVICES AND WIRING.
5. THE PA SYSTEM SHALL BE INTERCONNECTED TO THE TELEPHONE SYSTEM AT THE FACILITY. TELEPHONE HANDSETS SHALL HAVE THE ABILITY TO PROVIDE PUBLIC ADDRESS ANNOUNCEMENTS THROUGH THE PUBLIC ADDRESS SYSTEM.
6. ALL CABLES SHALL BE RUN IN RIGID METALLIC CONDUIT RUN BEHIND SURFACES WHERE POSSIBLE.
7. ALL CABLES SHALL BE LABELED AT BOTH ENDS WITH IDENTIFICATION, SIGNAL STRENGTH AND CABLE LENGTH.
8. SOUND SHALL BE ADJUSTED, VERIFIED AND DEMONSTRATED AS PART OF SYSTEM INSTALLATION.
9. SEE RELATED SPECIFICATION SECTION FOR EQUIPMENT AND INSTALLATION DETAILS.

3 PA SYSTEM NOTES
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PA SYSTEM DETAILS

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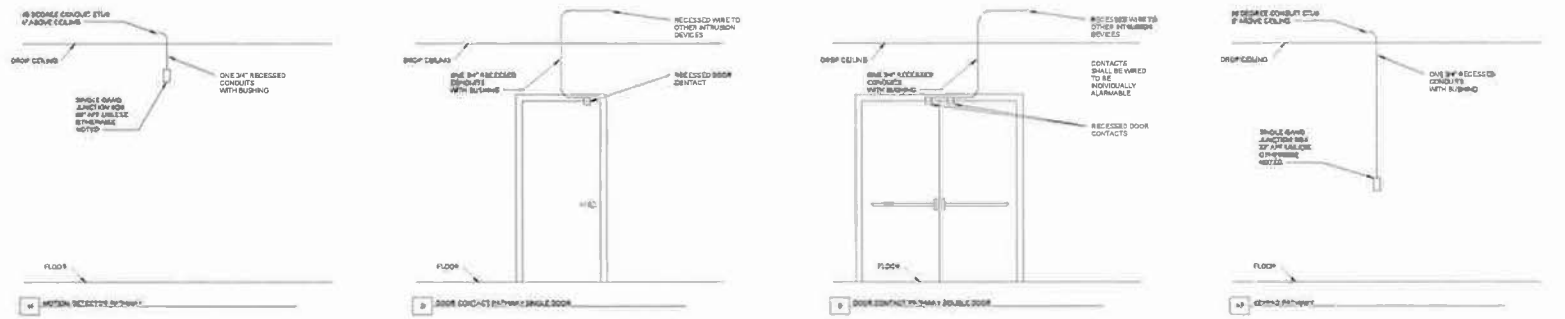
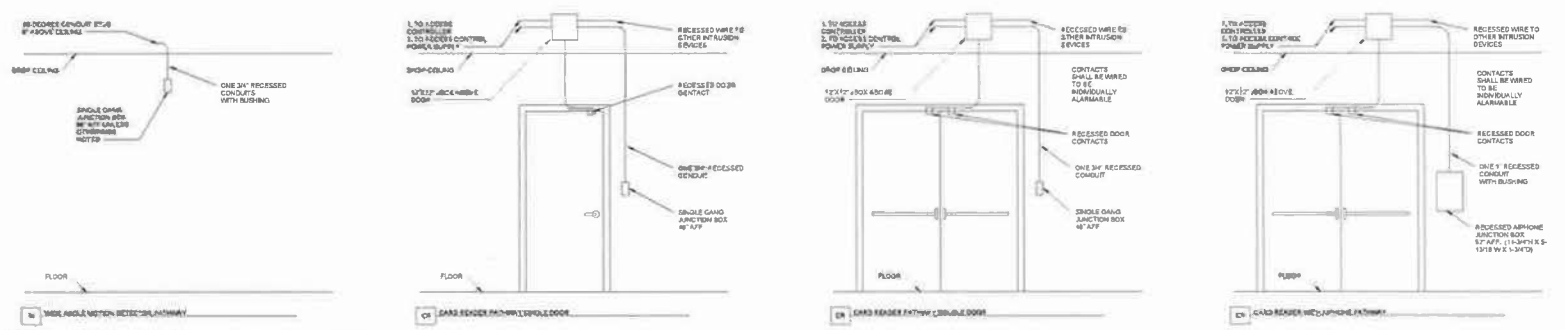
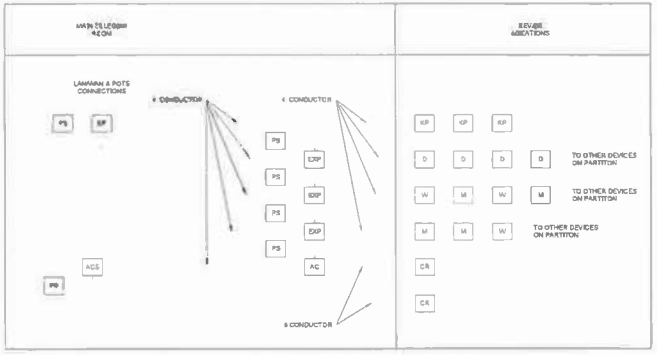




1 ACCESS AND INTRUSION PATHWAYS
N.T.S.



2 ACCESS AND INTRUSION LINE DIAGRAM
3/4" = 1'-0"

INTRUSION SYSTEM NOTES

1. THE INTRUSION DETECTION SYSTEM MUST FUNCTION WITH THE ACCESS CONTROL SYSTEM.
2. THE INTRUSION DETECTION SYSTEM MUST MEET THE REQUIREMENT OF THE PERSONNEL SECURITY DIVISION OF DC GOVERNMENT. ALL WORK MUST BE COORDINATED WITH PSD.
3. DEVICES SHALL NOT BE IMPEDED BY INTRUSION OR ACCESS EQUIPMENT AND SHALL BE ACCOMPLISHED BY THE DOOR HARDWARE.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS FOR THE INTRUSION DETECTION SYSTEM.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER CIRCUITS AND RECEPTACLES FOR THE SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.
6. THE INTRUSION LINE DIAGRAM IS PROVIDED AS A TYPICAL SYSTEM WIRING SCHEME. EXACT WIRING MAY BE DIFFERENT. NOT ALL CONNECTIONS ARE SHOWN BUT MUST BE INCLUDED IN THIS SCOPE OF WORK.
7. THE INTRUSION SYSTEM SHALL INCLUDE DOOR CONTACTS, MOTION DETECTORS, KEYPAD, EXPANSION MODULES, POWER SUPPLIES, BATTERY BACKUP, SECURITY PANELS, CABLES, CONNECTORS, MOUNTS AND ASSOCIATED COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. THE SYSTEM SHALL BE CAPABLE OF BEING MONITORED LOCALLY AND REMOTELY. THE SYSTEM SHALL BE CONNECTED TO POTS LINES. IP CAMERAS CONNECTIONS AND TO BATTERY BACKUP FOR OPERATION IN THE EVENT OF A POWER FAILURE. PROVIDE A PROPERLY SIZED BATTERY BACKUP FOR THE SYSTEM.
9. ALL CABLING SHALL BE PLENUM RATED.
10. ALL CABLE SHALL BE COLOR CODED AND PROPERLY LABELED ON EACH END OF THE CABLE.
11. ALL CABLE LENGTHS SHALL BE BASED ON DISTANCE AND LOAD CALCULATIONS. PROVIDE DISTANCE AND LOAD CALCULATIONS BASED ON THE EXACT LOCATION AND WIRING PATH OF DEVICES.
12. ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
13. ALL PANELS, IP, AND EXPANSION MODULES (EXP) SHALL BE INSTALLED WITHIN SECURITY JUNCTION BOXES. JUNCTION BOXES SHALL BE COLOR CODED.
14. NO MORE THAN TEN DEVICES PER POWER SUPPLY.
15. MOTION DETECTORS SHALL BE WIRED, RECEIVING MOUNTED FOR NORMAL MOUNTING ADJUSTMENTS.
16. DOOR CONTACTS SHALL BE RECESSED UNLESS OTHERWISE NOTED.
17. DOUBLE DOORS SHALL BE WIRED AS A SINGLE ZONE.
18. INSTALLATION MUST BE COORDINATED WITH THE OWNER, ARCHITECT, ELECTRICAL CONTRACTOR AND DOOR HARDWARE CONTRACTOR PRIOR TO INSTALLATION.
19. SUBMITTALS AND SHOP DRAWINGS MUST INCLUDE EXACT PRODUCT DATA SUCH AS MODEL NUMBERS, SYSTEM CONNECTIONS, WIRING DIAGRAMS AND DEVICE LOCATIONS.
20. SYSTEM PROGRAMMING AND PARTITIONS MUST BE REVIEWED WITH SHOP DRAWINGS AND SUBMITTAL INFORMATION.
21. AS-BUILT DOCUMENTATION SHALL BE SUBMITTED IN ELECTRONIC AUTOCAD (.DWG) AND PDF FORMAT AND SHALL INCLUDE ALL SYSTEM REVISIONS.

ACCESS CONTROL SYSTEM NOTES

1. THE INTRUSION DETECTION SYSTEM MUST FUNCTION WITH THE ACCESS CONTROL SYSTEM.
2. THE ACCESS CONTROL SYSTEM IS OWNED BY DC DMV AND MUST BE COORDINATED WITH THEIR STANDARDS.
3. DEVICES SHALL NOT BE IMPEDED BY ACCESS EQUIPMENT AND SHALL BE ACCOMPLISHED BY THE DOOR HARDWARE.
4. THE ACCESS CONTROL SYSTEM MUST FUNCTION WITH DOOR DOOR HARDWARE AND DEVICES INCLUDING ADA OPERATORS, CLOSERS, AND DEVICES.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS FOR THE ACCESS CONTROL SYSTEMS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER CIRCUITS AND RECEPTACLES FOR SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.
7. THE ACCESS CONTROL LINE DIAGRAM REPRESENTS A TYPICAL SYSTEM WIRING SCHEME. EXACT WIRING MAY BE DIFFERENT. NOT ALL CONNECTIONS ARE SHOWN BUT MUST BE INCLUDED IN THIS SCOPE OF WORK.
8. THE ACCESS CONTROL SYSTEM SHALL INCLUDE AND BE LENEL OR APPROVED EQUAL ACCESS CONTROL PANELS, ACCESS CONTROL DEVICES, WIRING, EXPANSION MODULES, POWER SUPPLIES, BATTERY BACKUP, CONNECTIONS, MOUNTS AND ASSOCIATED COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
9. THE SYSTEM SHALL BE CAPABLE OF BEING MONITORED LOCALLY AND REMOTELY. THE SYSTEM SHALL BE CONNECTED TO POTS LINES, BY LAN/WAN CONNECTIONS AND TO BE STICKY BACKUP FOR OPERATION IN THE EVENT OF A POWER FAILURE. PROVIDE A PROPERLY SIZED BATTERY BACKUP FOR THE SYSTEM.
10. ALL CABLING SHALL BE PLENUM RATED.
11. ALL CABLING SHALL BE COLOR CODED AND PROPERLY LABELED ON EACH END OF THE CABLE.
12. ALL CABLE LENGTHS SHALL BE BASED ON DISTANCE AND LOAD CALCULATIONS. PROVIDE DISTANCE AND LOAD CALCULATIONS BASED ON THE EXACT LOCATION AND WIRING PATH OF DEVICES.
13. ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
14. INSTALLATION MUST BE COORDINATED WITH THE OWNER, ARCHITECT, ELECTRICAL CONTRACTOR AND DOOR AND FRAME CONTRACTOR PRIOR TO INSTALLATION.
15. SUBMITTALS AND SHOP DRAWINGS MUST INCLUDE EXACT PRODUCT DATA SUCH AS MODEL NUMBERS, SYSTEM CONNECTIONS, WIRING DIAGRAMS AND DEVICE LOCATIONS.
16. AS-BUILT DOCUMENTATION SHALL BE SUBMITTED IN ELECTRONIC AUTOCAD (.DWG) AND PDF FORMAT AND SHALL INCLUDE ALL SYSTEM REVISIONS.

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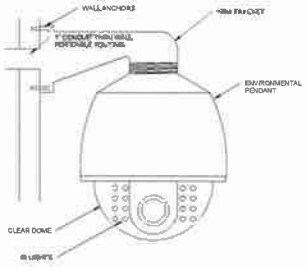
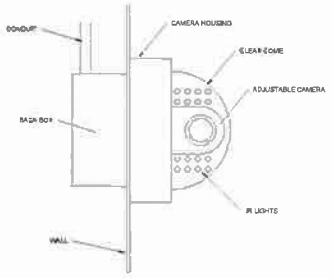
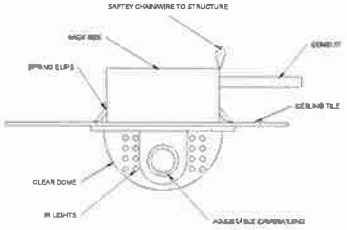
ACCESS CONTROL AND INTRUSION DETECTION SYSTEM
T404.1



IP DOME CAMERA DETAIL

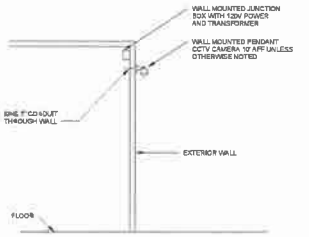


IN-WALL FIXED IR CAMERA DETAIL

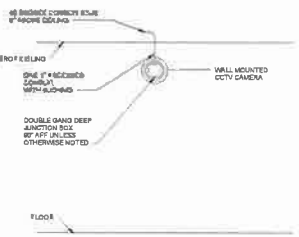


IN-CEILING FIXED IR CAMERA DETAIL

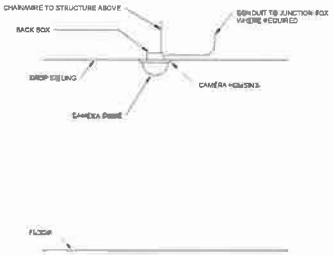
CCTV CAMERA SCHEDULE			
Camera Number	Camera Type	Mounting	Mounting Height
1	Fixed		
2	Fixed		
3	Fixed		
4	Fixed		
5	Fixed		
6	Fixed		
7	Fixed		
8	Fixed		
9	Fixed		
10	Fixed		
11	Fixed		
12	Fixed		
13	Fixed		
14	Fixed		
15	Fixed		
16	Fixed		
17	Fixed		
18	Fixed		
19	Fixed		
20	Fixed		
21	Fixed		
22	Fixed		
23	Fixed		
24	Fixed		
25	Fixed		
26	Fixed		
27	Fixed		
28	Fixed		
29	Fixed		
30	Fixed		
31	Fixed		
32	Fixed		
33	Fixed		
34	Fixed		
35	Fixed		
36	Fixed		
37	Fixed		
38	Fixed		
39	Fixed		
40	Fixed		
41	Fixed		
42	Fixed		
43	Fixed		



EXTERIOR PENDANT CCTV CAMERA PATHWAY DETAIL

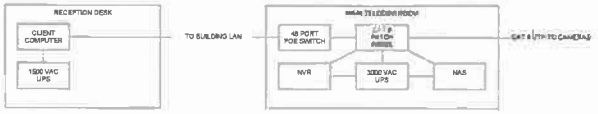


IN-WALL CCTV CAMERA PATHWAY DETAIL



CEILING CCTV CAMERA PATHWAY DETAIL

3 CCTV PATHWAYS
6" = 1'-0"



2 CCTV LINE DIAGRAM
N.T.S.

1. CAMERA SCHEDULE INCLUDES ALL CAMERAS AT THE FACILITY FOR PHASE 1 AND PHASE 2
2. EXISTING CAMERAS SHALL BE REMOVED DURING DEMOLITION AND REINSTALLED DURING CONSTRUCTION
3. ALL NEW CAMERA CABLING SHALL BE CONCEALED IN CONDUIT.
4. NEW CAT 6 UTP STRUCTURED CABLING SHALL MEET THE PERFORMANCE OF OTHER STRUCTURED CABLING AT THE FACILITY.
5. NEW CAT 6 UTP STRUCTURED CABLING SHALL BE INSTALLED FROM THE MAIN TELECOM ROOM TO CAMERA LOCATIONS IN SPACES WITH DAMAGE POTENTIAL
6. NEW CAT 6 UTP STRUCTURED CABLING SHALL BE TERMINATED ON RACK MOUNTED CAT 6 PATCH PANELS RESERVED FOR CCTV EQUIPMENT.
7. NEW CAT 6 UTP STRUCTURED CABLING SHALL BE A DEDICATED COLOR FROM OTHER SYSTEMS.
8. NEW CAT 6 UTP STRUCTURED CABLING SHALL BE CONNECTED TO EXISTING CAMERA CHANNELS.
9. CAMERA FIELD OF VIEW SHALL BE VERIFIED PRIOR TO INSTALLATION AND CLIENT MAY ALTER AND FINE TUNE THE PROPER VIEW.
10. CAMERAS SHALL BE COMPLETELY INSTALLED, ADJUSTED AND ACTIVE.
11. CONNECTION TO OWNER MAINTAINED NON-UPS EQUIPMENT, RECORDS AND OTHER ACTIVE EQUIPMENT WITHIN THE MAIN TELECOM ROOM SHALL BE COORDINATED WITH THE OWNER AT THE TIME OF CONSTRUCTION AND INSTALLATION.
12. OWNER PROVIDED CCTV INVESTIGATIONS SHALL BE INSTALLED AND ACTIVE. COORDINATE WITH OWNER FOR SPECIFIC LOCATIONS AROUND THE FACILITY.
13. ALL CABLES SHALL BE CLEARLY LABELLED EACH END AND SHALL INCLUDE THE CABLE'S ORIGIN AND DESTINATION.
14. ALL CABLES SHALL BE RUN IN CABLE TRAY OR CONCEALED WITHIN WALLS AND CEILING CAVITIES.
15. HORIZONTAL CABLES UNDER 90 METERS SHALL BE CAT 6 UTP WITH RJ-45 PLUGS AT THE CAMERA END AND A TERMINATION WALL PLATE.
16. HORIZONTAL CABLES OVER 90 METERS SHALL BE FIBER WITH RJ-45 PLUGS AND COPPER FOR POWER DISTRIBUTION WITH AN ASSOCIATED MEDIA CONVERTER AT THE CAMERA.
17. EXACT CAMERA MOUNT MUST BE COORDINATED IN THE FIELD PRIOR TO INSTALLATION AND PREVIOUS FIELD OF VIEW HEIGHTS SHOWN ARE FROM THE ASSOCIATED INTERIOR FLOOR LEVEL.
18. THE INSTALLATION SHALL BE COORDINATED WITH THE OWNER, ELECTRICIAN AND LOW VOLTAGE CONTRACTOR PRIOR TO WORK BEGINNING.
19. PROVIDE COMPLETE SHOP DRAWINGS AND EQUIPMENT SUBMITTALS WHICH CLEARLY IDENTIFY EACH SPECIFIC PIECE OF EQUIPMENT, CABLE ROUTE, EQUIPMENT LOCATION AND SYSTEM INTERCONNECTIONS.
20. PROVIDE COMPLETE AS-BUILT DRAWINGS WHEN THE INSTALLATION IS CONSIDERED COMPLETE. THESE MUST BE STAMPED BY A PE WITH COMPLETE TEST RESULTS PROVIDED. AS-BUILTS MUST INCLUDE DEVICE LOCATIONS, EQUIPMENT INTERCONNECTIONS, WIRING DIAGRAMS AND PIECE-WISE SYSTEM TESTS. PROVIDE IN HARDCOPY AND SCANNED .PDF FILE FORMAT.

1 CCTV NOTES
N.T.S.

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CCTV SYSTEM

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SECTION 27 0500 - TELECOM PATHWAYS AND SPACES
PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES
1. THIS SECTION INCLUDES THE MINIMUM REQUIREMENTS FOR THE EQUIPMENT AND CABLE INSTALLATIONS IN COMMUNICATION EQUIPMENT ROOMS AND RELATED PATHWAYS.
2. INCLUDED IN THIS SECTION ARE THE MINIMUM COMPOSITION REQUIREMENTS AND INSTALLATION METHODS FOR THE FOLLOWING:
a. DISTRIBUTION RACKS
b. LADDER RACK
c. J-HOOKS
d. CONDUITS AND BACK BOXES
e. GROUNDING DEVICES

[illegible]

END OF SECTION

(1) 270500 NO SCALE

SECTION 27 1000 - TELECOM CABLING
PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES
1. LOCAL AREA NETWORK (LAN) CABLING SYSTEM
2. HORIZONTAL CABLING SYSTEM
1.2 REFERENCES
A. COMPLY WITH APPLICABLE REQUIREMENTS IN LOCAL, STATE AND FEDERAL CODES, TIA/EIA STANDARDS AND BICSI METHODOLOGY.
1.3 SYSTEM DESCRIPTION
A. DESIGN REQUIREMENTS
1. ALL WIRING SHALL BE PLENUM RATED
2. ALL WIRING INCLUDING COPPER AND FIBER OPTIC EMPLOYS A STAR TOPOLOGY.
3. NETWORK CABLES ROUTED FROM DISTRIBUTION RACKS THROUGHOUT BUILDING IN CORRIDOR CEILING IF AVAILABLE, OR OTHER LOCATION AS SHOWN ON T-DRAWINGS. DROP TO OUTLET INSTALLED IN CONDUIT AND WALL BOX, OR SURFACE MOUNTED RACEWAY TO COMMUNICATIONS OUTLET IN OFFICES, OR OTHER LOCATIONS INDICATED ON T-DRAWINGS.
4. PERMANENTLY IDENTIFY AND LABEL ALL CABLES AND TERMINATION DEVICES AT DISTRIBUTION RACK/CABINET AND WORKSTATION IN ACCORDANCE WITH ANSI TIA/EIA-606 STANDARD OR AS AGREED BY ARCHITECT AND OWNER.
5. REMOVE AND REPLACE ANY CABLES FAILING TO MEET END-TO-END TESTING REQUIREMENTS. DO NOT ABANDON CABLE IN PLACE. ALL CABLE SHALL BE TERMINATED AT BOTH ENDS UNLESS NOTED IN T-DRAWINGS.
1.4 SUBMITTALS
A. PRODUCT DATA
1. SPECIFIC PARTS AND EQUIPMENT MODELS MUST BE HIGHLIGHTED OR LISTED. SUBMITTALS NOTE MEETING THESE CRITERIA SHALL BE REJECTED FOR RESUBMITTAL.
2. COMMUNICATIONS OUTLETS, FACEPLATES AND ACCESSORIES
3. COPPER CABLE, PATCH CABLES AND TERMINATION DEVICES
4. TEST REPORTS
a. SAMPLE OF EACH NETWORK CABLING TEST REPORT – FIBER OPTIC, COAX AND UTP. SUBMIT COMPLETE SAMPLE TEST DATA AND REPORTS WITH EXACT LABELS USED ON CABLES, PATCH PANELS AND FACEPLATES.
1.5 WARRANTY
A. A FIFTEEN (15) YEAR EXTENDED PRODUCT WARRANTY AND SYSTEMS ASSURANCE WARRANTY FOR THIS WIRING SYSTEM SHALL BE PROVIDED BY THE MANUFACTURER.
B. SYSTEM CERTIFICATION: UPON SUCCESSFUL COMPLETION OF THE INSTALLATION AND SUBSEQUENT INSPECTION, THE OWNER SHALL BE PROVIDED WITH A NUMBERED CERTIFICATE, FROM THE MANUFACTURING COMPANY, REGISTERING THE INSTALLATION.
PART 2 - PRODUCTS
2.1 COMPONENTS
1. COPPER TWISTED PAIR DATA CABLES
a. 100 OHM CATEGORY 6A UNSHIELDED TWISTED PAIR CABLE (UTP)
2. ADDITIONAL BALANCED, TWISTED-PAIR CABLING COMPONENTS
a. CAT 6 PATCH CABLES
b. FACTORY TERMINATED AND TESTED UTP PATCH CABLES AT WORKSTATION AND EQUIPMENT CROSS-CONNECT MEETING REQUIREMENTS OF ANSI/TIA/EIA-568-B FOR PATCH CABLE TESTING.
c. PROVIDE QUANTITY 2 FOR EACH COMPUTER OUTLET, OF SUFFICIENT LENGTH TO REACH WORKSTATION FROM COMMUNICATION OUTLET AND FOR MANAGEABILITY AT THE EQUIPMENT RACK.
d. DATA OUTLETS: MODULAR CONSTRUCTION WITH MULTIPLE INSERTS AVAILABLE TO SUPPORT DIFFERENT MEDIUMS CONNECTORS AND BLANK INSERTS AS SHOWN ON T-DRAWINGS FOR EACH OUTLET WITH CONNECTORS MEETING CATEGORY 6A REQUIREMENTS AND WIRING PER TIA/EIA-568. REFER TO DRAWINGS FOR TYPE OF OUTLET REQUIRED AT EACH LOCATION. PROVIDE MOUNTING HARDWARE AND CONFIGURATION WITH PROPER BENDING RADIUS FOR ALL INSTALLED CABLING. NOTIFY ARCHITECT WHERE PATHWAYS DO NOT SUPPORT PROPER BENDING RADIUS PRIOR TO INSTALLATION. PROVIDE (VERIFY WITH ARCHITECT PRIOR TO INSTALLATION)
(1) BLUE MODULAR JACKS FOR DATA PORTS
(2) GREEN MODULAR JACKS FOR WIRELESS
(3) WHITE MODULAR JACKS FOR TELEPHONE PORTS
e. [illegible] WHERE SHOWN ON T-DRAWINGS AND IN [illegible] FACEPLATES EQUIPPED FOR 6 MODULAR INSERTS UNLESS [illegible] FACEPLATES EQUIPPED FOR 12 MODULAR INSERTS UNLESS SPECIFIED OTHERWISE ON T-DRAWINGS. PROVIDE SUFFICIENT BLANK COVERS FOR ALL UNUSED PORTS. PROVIDE DUST COVERS FOR ALL TERMINATIONS.
f. PROVIDE FACEPLATES WITH ANGLED, RECESSED INSERTS FOR ALL FLUSH-MOUNTED BOXES.
g. WHERE REQUIRED DUE TO BACK BOX CONFIGURATION OR OTHERWISE SPECIFIED, PROVIDE TELECOMMUNICATIONS OUTLETS MOUNTED ON DECORA MODULE FRAMES WITH COVER PLATE MATCHING EXISTING OR OTHER ELECTRICAL OUTLETS IN COLOR-MATCHING HIGH-IMPACT NYLON OR STAINLESS STEEL.
h. CATEGORY 6A UTP CABLE (BLUE, WHITE AND GREEN)
i. JACK MODULES
j. BLANK MODULE
k. MODULAR PATCH PANEL – CATEGORY 6A COMPLIANT
l. FACEPLATES (SINGLE, DOUBLE)
m. PATCH CABLES
B. FIBER COMPONENTS
1. FIBER PATCH PANELS AND WIRE MANAGEMENT COMPONENTS
a. RACK MOUNTED FIBER OPTIC CONNECTOR HOUSINGS AND PATCH PANELS
b. MANUFACTURERS – FOR CONVENIENCE, DETAILS AND SPECIFICATIONS BASED ON
c. CONNECTOR PANELS
d. PROVIDE INDUSTRY STANDARD SINGLE FIBER AND SMALL FORM FACTOR MULTI-FIBER ADAPTERS, INCLUDING SC-DUPLEX, ST-, FC-, AND MT-RJ CONNECTORS.
2. OPTICAL FIBER CABLES: USED AS BACKBONE CABLE, CONNECTING ALL TELECOMMUNICATIONS ROOMS. TRUNK CABLE FOR [illegible] ROOM TO TELECOM UTILITY COMPANY INTERFACE AND TRUNK CABLE [illegible] SYSTEM. PROVIDE CABLES WITH ACTUAL FIBER TYPE AND [illegible]
a. [illegible]
b. [illegible] ULTRA RATED TO 10 GBPS, PLENUM RATED FIBER OPTIC CABLE WITH [illegible] BUFFER, OM4
C. COAXIAL CABLE
1. BLONDER TONGUE 860 BI-DIRECTIONAL AMPLIFIER
2. BLONDER TONGUE 1000 MHZ TAP
3. BLONDER TONGUE SXRS 1000 MHZ SPLITTER
4. RG-11 QUAD SHIELD COAXIAL CABLE
5. RG-6 QUAD SHIELD COAXIAL CABLE
6. WALL OUTLET F CONNECTOR
PART 3 - EXECUTION
3.1 EXAMINATION
A. SITE VERIFICATION OF CONDITIONS
1. EXAMINE CONDITIONS UNDER WHICH TELECOMMUNICATIONS CABLING AND EQUIPMENT AND RELATED COMPONENTS ARE TO BE INSTALLED IN COORDINATION WITH INSTALLER OF MATERIALS AND COMPONENTS SPECIFIED IN THIS SECTION AND NOTIFY AFFECTED PRIME CONTRACTORS AND ARCHITECT IN WRITING OF ANY CONDITIONS DETRIMENTAL TO PROPER AND TIMELY INSTALLATION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED TO ENSURE A SAFE AND TIMELY INSTALLATION.
3.2 INSTALLATION
A. PROVIDE AND INSTALL ALL COMPONENTS NECESSARY TO INSTALL COMPLETE TELECOMMUNICATIONS CABLING AND EQUIPMENT SYSTEMS, INCLUDING (BUT IS NOT LIMITED TO) CONNECTORS, PATCH CABLES, TERMINATORS, ETC.
B. SECURE ALL HORIZONTAL CABLES WITHIN CEILING CAVITIES TO BUILDING STRUCTURE.
1. LOOSELY BUNDLE ALL CABLES AND SUPPORT FROM STRUCTURE AT UNEQUAL INTERVALS FROM 5 TO 8 FEET WITH SPRING STEEL FASTENERS AND CABLE CLIP RATED FOR USE WITH HIGH PERFORMANCE CABLES (SIMILAR TO CADDY SERIES "CABLECAT" OR APPROVED ALTERNATE MOUNTING METHODS) INCLUDING PLACEMENT IN CABLE TRAY AS INDICATED ON DRAWINGS.
2. DO NOT VIOLATE MANUFACTURER'S RECOMMENDED LOADINGS. LEAVE 30% CAPACITY FOR FUTURE USE OF PATHWAY.
3. VERIFY ALL HORIZONTAL CABLE RUN LENGTHS PRIOR TO INSTALLATION. RE-DISTRIBUTE HORIZONTAL CABLING TO MAINTAIN DISTANCE REQUIREMENTS AND MAINTAIN PATHWAY ROUTE ACCESSIBILITY.
4. PROVIDE EACH CABLE AS CONTINUOUS SECTION FROM POINT OF ORIGIN TO POINT OF DESTINATION. FIELD SPLICES OR MECHANICAL COUPLING USED FOR INSTALLATION NOT ACCEPTABLE.
5. INSTALL CABLES IN CONDUIT IN ALL UNFINISHED, EXPOSED AREAS AS SHOWN IN ARCHITECTURAL ROOF PLANS AND/OR T-DRAWINGS UNLESS ALTERNATE PATHWAYS ARE NOTED.
6. VELCRO STRAPS SHALL BE USED TO BUNDLE CABLES. DO NOT SECURE CABLES WITH PERMANENT CABLE TIES. DO NOT TIGHTEN CABLE BUNDLES IN SUCH A WAY AS TO CAUSE JACKET DEFORMATION OR DAMAGE.
7. PROVIDE A MINIMUM OF 3' OF CABLE SLACK AT WORKSTATION AND 10' TELECOM ROOMS UNLESS NOTED OTHERWISE.
8. PROVIDE A 15-FOOT SERVICE LOOP IN ALL FIBER OPTICAL CABLES TO PERMIT FUTURE CABLE SPLICE AND REPAIR AT ALL BUILDING ENTRANCE POINTS AND TERMINATION POINTS.
9. PLACE CABLES IN COMPLIANCE WITH TIA/EIA-568 B STANDARDS AND BICSI RECOMMENDED METHODS.
10. RE-TERMINATE AND RE-TEST ANY CABLES OR PAIRS OF CABLES FAILING END-TO-END TESTING REQUIREMENTS. REPLACE ANY FAULTY CABLES/PAIRS OR TERMINATION DEVICES. REMOVE ALL DEFECTIVE CABLES COMPLETELY FROM PATHWAYS.
C. PERMANENTLY IDENTIFY ALL SYSTEM COMPONENTS FOLLOWING TIA/EIA-606A "ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE" WITH IDENTIFICATION FORMAT.
D. IDENTIFICATION: PROVIDE PERMANENT IDENTIFICATION LABELS FOR OUTLETS, FACEPLATES, PATCH PANELS, ACCESS PANELS, VIDEO DISTRIBUTION EQUIPMENT LOCATIONS (INCLUDING SPLITTERS IN CEILING), AND ENTRANCE FACILITIES.
3.3 AS-BUILTS
A. CONTRACTOR SHALL SUPPLY COMPLETE AS-BUILTS IN HARDCOPY AND ELECTRONIC AUTOCAD 2014 FORMAT.
B. AS-BUILTS SHALL INCLUDE ALL DEVICE LOCATIONS, FACEPLATE CONFIGURATIONS, CABLE ROUTING, CABLE LABELING AND OTHER RELEVANT INFORMATION.
3.4 ACCEPTANCE
A. [illegible]
3.5 SCHEDULES
A. [illegible]
END OF SECTION

(2) 271000 NO SCALE

SECTION 27 500 PUBLIC ADDRESS SYSTEM
PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES
1. PA SYSTEM
1.2 SYSTEM DESCRIPTION
A. DESIGN REQUIREMENTS
1. PUBLIC ADDRESS SYSTEM SHALL INCLUDE CONNECTION TO THE TELEPHONE SYSTEM AND PROVIDE ONE-WAY COMMUNICATION TO LOCATIONS WITH ASSOCIATED SPEAKERS. SYSTEM SHALL OVERRIDE ALL OTHER LOCAL SOUND SYSTEMS. SYSTEM SHALL INCLUDE MICROPHONES, WIRING, GATEWAYS, AMPLIFIERS, MIXERS AND SPEAKERS NECESSARY FOR A COMPLETE SYSTEM.
B. PERFORMANCE REQUIREMENTS
1. COMPLY WITH APPLICABLE REQUIREMENTS IN LOCAL, STATE AND FEDERAL CODES, TIA/EIA STANDARDS AND BICSI METHODOLOGY.
1.3 SUBMITTALS

[illegible]

3.2 INSTALLATION
A. PROVIDE AND INSTALL ALL COMPONENTS NECESSARY TO INSTALL COMPLETE AV CABLING AND SOUND ENHANCEMENT EQUIPMENT SYSTEMS, INCLUDING (BUT IS NOT LIMITED TO) CONNECTORS, ELECTRONICS, TERMINATORS, PASS-THRUS, CABLES ETC.
1. CABLE RUNS SHALL BE FACTORY TERMINATED. SPLICING OF ANY CABLE IS PROHIBITED.
2. SECURE ALL CABLES WITHIN CEILING CAVITIES TO BUILDING STRUCTURE.
3. DO NOT VIOLATE MANUFACTURER'S RECOMMENDED LOADINGS. LEAVE 30% CAPACITY FOR FUTURE USE OF PATHWAY.
4. VERIFY ALL HORIZONTAL CABLE RUN LENGTHS PRIOR TO INSTALLATION. ENSURE CABLES DO NOT EXCEED DISTANCES THAT WOULD DEGRADE THE SIGNAL TRANSMISSION REQUIREMENTS.
5. DO NOT SUPPORT CABLES FROM CEILING GRID T-BARS, GRID WIRE SUPPORTS OR BRIDLE RINGS. DO NOT ALLOW CABLES TO TOUCH CEILING GRID.
6. INSTALL CABLES IN EMT IN ALL UNFINISHED OR EXPOSED AREAS.
7. DO NOT SECURE CABLES WITH PERMANENT CABLE TIES. DO NOT TIGHTEN CABLE BUNDLES IN SUCH A WAY AS TO CAUSE JACKET DEFORMATION OR DAMAGE.
8. PLACE CABLES IN COMPLIANCE WITH TIA/EIA-568 B STANDARDS AND BICSI RECOMMENDED METHODS.
9. TIGHT 90-DEGREE BENDS ARE UNACCEPTABLE, AND USE OF PLASTIC "CINCH-TYPE" TIE-WRAPS ARE NOT PERMITTED IN ORDER TO PREVENT DAMAGE TO CABLE JACKET AND COMPROMISE THE CABLE'S ELECTRICAL OR OPTICAL CHARACTERISTICS.
10. [illegible]
B. [illegible]
C. [illegible]
1. IDENTIFICATION: PROVIDE PERMANENT IDENTIFICATION LABELS FOR OUTLETS, FACEPLATES AND CABLES.
2. EACH INDIVIDUAL CABLE SHALL BE LABELED ON BOTH ENDS OF CABLE TERMINATIONS REGARDLESS OF CABLE INTENDED USE. LABELS MUST BE MACHINE PRINTED WITH PERMANENT BLACK INK ON LAMINATED WHITE LABEL MATERIAL. CONTRACTORS MUST CHECK WITH APPROPRIATE SCHOOL DISTRICT PERSONNEL FOR APPROPRIATE LABELING SCHEME. THE INTENDED FORMAT AND LABELING MATERIAL MUST BE APPROVED BY THE OWNER BEFORE LABELING BEGINS.
3.3 AS-BUILTS
A. AS-BUILTS SHALL BE PROVIDED BY THE CONTRACTOR IN HARDCOPY AND ELECTRONIC CAD FORMAT PRIOR TO PROJECT COMPLETION AND INSPECTION.
B. AS-BUILTS BY CONTRACTOR MUST INCLUDE PARTS LISTS AND WIRING DIAGRAMS THAT CLEARLY INDICATE ALL EQUIPMENT LOCATIONS, WIRING AND CONNECTIONS.
C. OWNER'S MANUALS SHALL BE SUPPLIED AS PART OF THE AS-BUILT DOCUMENTATION.
3.4 DEMONSTRATION AND TRAINING
A. ALL ASPECTS OF THE SYSTEMS MUST BE DEMONSTRATED FOR THE OWNER AT THE TIME OF TRAINING.
C. TRAINING SHALL BE VIDEO AND AUDIO RECORDED FOR THE OWNER AND TURNED OVER TO THE OWNER AT ACCEPTANCE.
3.5 ACCEPTANCE
A. CONTRACTORS WORK SHALL BE CONSIDERED COMPLETE AFTER THE FOLLOWING CONDITIONS HAVE BEEN MET:
1. AS-BUILT DOCUMENTATION HAS BEEN PROVIDED AND APPROVED.
2. CABLE INSTALLATION IS COMPLETE AND ALL CABLE RUNS HAVE BEEN TESTED AND DOCUMENTED TO BE INSTALLED ACCORDING TO SPECIFICATIONS AND DRAWINGS.
3. EQUIPMENT INSTALLATION IS COMPLETE AND ALL FUNCTIONS HAVE BEEN TESTED AND DOCUMENTED TO FUNCTION AS DESIGNED AND PER THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL PUNCH LIST ITEMS HAVE BEEN RECONCILED.
5. ALL DISTURBED CEILING PANELS, FIRE STOPPING MATERIALS, COVERS, ETC., HAVE BEEN PROPERLY REINSTALLED.
6. ALL MATERIALS AND TRASH HAVE BEEN REMOVED FROM THE SITE.
7. A 1-YEAR INSTALLERS WARRANTY HAS BEEN GIVEN TO A TECHNOLOGY REPRESENTATIVE.
8. SUBMIT MANUFACTURERS EXTENDED WARRANTY APPLICATION.
END OF SECTION

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SECTION 28 1000 - ACCESS AND INTRUSION SYSTEMS
PART 1 - GENERAL
1.1 REQUIREMENTS
A. THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO THE WORK SPECIFIED IN THIS SECTION.
B. INFORMATION [illegible] INTEGRATION. [illegible] BOARD. A FLOOR PLAN [illegible]
C. VENDORS MUST BE RS2 LEVEL 3 PARTNERS.
D. ALL SECURITY EQUIPMENT WILL CONNECT TO THE CITYWIDE ENTERPRISE SECURITY SYSTEM – RS2 ACCESS IT!
E. ALL INSTALLATION AND SERVICE TECHNICIANS MUST BE FACTORY TRAINED AND ALL PERSONNEL RESPONSIBLE FOR SYSTEM DEPLOYMENT MUST BE CERTIFIED BY APPLICABLE MANUFACTURER. A CURRENT COPY OF EACH OF THESE CERTIFICATIONS MUST BE PROVIDED WITH THE BID RESPONSE.
F. CONTRACTOR MUST PROVIDE CURRENT CERTIFICATIONS FOR SALES AND ENGINEERING TRAINING FOR RS2 ACCESS IT!.
G. THE VENDOR WILL FLASH ALL HID MULTI-CLASS READERS TO "PROX PRIORITY" MODE USING VENDOR-PROVIDED CONFIGURATION CARD 2000-04-03-000013 PRIOR TO ACCEPTANCE TESTING BY PSD.
H. ACCESS CONTROL SYSTEM DEVICE PROGRAMMING WILL BE COORDINATED WITH XT SYSTEMS INTEGRATION. XT WILL PERFORM ACS PROGRAMMING. BIDS SHOULD NOT INCLUDE SYSTEM PROGRAMMING BUT MAY INCLUDE TECHNICIAN TIME TO COORDINATE AND TEST PROGRAMMING PERFORMED BY OTHERS.
1. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROGRAMMING ALL OTHER SYSTEM DEVICES INCLUDING, BUT NOT LIMITED TO: INTRUSION DETECTION SYSTEM AND EQUIPMENT.
I. ALL DEVICE LOCATIONS ARE SHOWN ON THE SECURITY LAYOUTS AND SHOULD BE CONFIRMED PRIOR TO INSTALLATION DURING A PRE-INSTALLATION WALKTHROUGH WITH PSD.
J. ANY EQUIPMENT NECESSARY TO THE INSTALLATION OF THE LISTED ITEMS SHOULD BE INCLUDED IN THIS WORK.
1. THE OWNER EXPECTS A TURNKEY SYSTEM WITHOUT ADDITIONAL EQUIPMENT NEEDED TO FULFILL THE SCOPE OF WORK.
2. INFRASTRUCTURE ITEMS, SUCH AS POWER AND LAN CONNECTIVITY, THAT MUST BE FURNISHED BY OTHERS PRIOR TO INSTALLATION MUST BE SPECIFIED IN THE BID.
K. SUBSTITUTIONS TO THE PSD STANDARD EQUIPMENT ARE NOT PERMITTED, EXCEPT WHERE AN ITEM IS NO LONGER MANUFACTURED OR WHERE FIELD CONDITIONS PROHIBIT IT'S INSTALLATION. ANY SUBSTITUTION MUST BE APPROVED BY PSD AND INCLUDE A REASON FOR THE SUBSTITUTION AND ASSOCIATED CUT SHEET.
1.2 SUMMARY
A. PROVIDE A COMPLETE AND FULLY OPERATIONAL ACCESS CONTROL AND INTRUSION DETECTION SYSTEM AS DESCRIBED HEREIN AND THE CONTRACT DRAWINGS.
1.3 SYSTEM DESCRIPTION
A. DESIGN REQUIREMENTS
1. THE ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS SHALL CONSIST OF THE FOLLOWING
a. BASE PANEL
b. EXPANSION MODULES
c. KEYPADS
d. ANNUNCIATORS
e. MOTION DETECTORS
f. DOOR CONTACTS
g. COMMUNICATION MODULES
h. PCS
i. SOFTWARE
B. PERFORMANCE REQUIREMENTS
1. THE INTRUSION DETECTION SYSTEM WILL ALERT AND RECORD MOVEMENT THROUGHOUT THE FACILITY THAT IS BOTH AUTHORIZED AND UNAUTHORIZED.
2. THE SYSTEMS WILL BE CAPABLE OF COMMUNICATING ONSITE AS WELL AS TO REMOTE LOCATIONS.
3. THE SYSTEMS SHALL BE CONTROLLABLE IN CASE OF EMERGENCY SITUATION.
4. ALL SYSTEMS SHALL OPERATE ON DEDICATED CIRCUITS WITH ASSOCIATED CABLING IN EMT.
1.4 SUBMITTALS
A. PRODUCT DATA CATALOG SHEETS WITH SPECIFIC DEVICES HIGHLIGHTED.
B. SHOP DRAWINGS WITH A DETAILED RISER DETAIL SHALL BE PROVIDED. DEVICE LOCATIONS AS WELL AS CABLE PATHS WILL ALSO BE PROVIDED.
C. QUALITY ASSURANCE/CONTROLS SUBMITTALS
1. DESIGN DATA FOR THE SYSTEM SHALL BE SUBMITTED WITH THE PROPOSED SUBMITTALS.
2. UPON COMPLETION OF THE INSTALLATION, TEST REPORTS SHALL BE SUBMITTED TO VERIFY THAT THE SYSTEM IS FULLY OPERATIONAL AND FUNCTIONING PROPERLY.
3. CERTIFICATES OF DESIGNER AND INSTALLER SHALL BE SUBMITTED WITH JOB SUBMITTALS.
4. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED AND INCORPORATED IN THE DESIGN OF THE SYSTEM.
D. AS BUILT DRAWINGS MUST BE SUPPLIED TO THE OWNER AND INCLUDE FULL SYSTEM LAYOUT FOR EACH SYSTEM.
E. OWNER'S MANUALS AND OPERATION MANUALS COMPLETE WITH ALL CODES AND PASSWORDS NECESSARY TO CONTROL AND MAINTAIN THE SYSTEM MUST BE SUPPLIED PRIOR TO COMPLETION.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. THE ACCESS CONTROL SYSTEM SHALL BE RS2
B. THE INTRUSION DETECTION SYSTEM SHALL BE DMP
C. THE VIDEO ENTRY PHONE SYSTEM SHALL BE AIPHONE
2.2 EQUIPMENT
A. ACCESS CONTROL EQUIPMENT
1. SECURITY CONTROL PANEL
a. RS2 EP-1502
2. [illegible]

[illegible]

PART 3 - EXECUTION
3.1 EXAMINATION
[illegible]
3.2 INSTALLATION
[illegible]
1.3 ADJUSTING
A. DEVICES SHALL BE ADJUSTED/CALIBRATED ONCE SYSTEM IS OPERATIONAL TO ENSURE PROPER AND FULL FUNCTIONALITY OF THE SYSTEM.
1.4 AS-BUILTS
A. AS-BUILT DOCUMENTS SHALL BE PROVIDED IN HARDCOPY AND ELECTRONIC CAD FORMAT AND MUST CLEARLY SHOW ALL DEVICES EQUIPMENT AND CABLES.
1.5 DEMONSTRATION
A. FURNISH TO THE OWNER'S DESIGNATED REPRESENTATIVE EIGHT (8) HOURS OF ON-THE-JOB TECHNICAL SERVICE INSTRUCTIONS IN THE OPERATING, MAINTENANCE, AND TROUBLESHOOTING OF THE SYSTEM.
END OF SECTION

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SECTION 28 2000 - CCTV EQUIPMENT
PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES
1. LOCAL AREA NETWORK (LAN) CABLING SYSTEM FOR CCTV
2. HORIZONTAL CABLING SYSTEM
1.2 REFERENCES
A. COMPLY WITH APPLICABLE REQUIREMENTS IN LOCAL, STATE AND FEDERAL CODES, TIA/EIA STANDARDS, AND BICSI METHODOLOGY.
1.3 SYSTEM DESCRIPTION
A. DESIGN REQUIREMENTS
1. ALL WIRING SHALL BE PLENUM RATED
2. ALL WIRING INCLUDING COPPER AND FIBER OPTIC EMPLOYS A STAR TOPOLOGY.
3. NETWORK CABLES ROUTED FROM DISTRIBUTION RACKS THROUGHOUT BUILDING IN CORRIDOR CEILING IF AVAILABLE, OR OTHER LOCATION AS SHOWN ON T-DRAWINGS. DROP TO CAMERA INSTALLED IN CONDUIT AND WALL BOX, OR SURFACE MOUNTED RACEWAY TO COMMUNICATIONS OUTLET IN OFFICES, OR OTHER LOCATIONS INDICATED ON T-DRAWINGS.
4. PERMANENTLY IDENTIFY AND LABEL ALL CABLES AND TERMINATION DEVICES AT DISTRIBUTION RACK/CABINET AND WORKSTATION IN ACCORDANCE WITH ANSI TIA/EIA-606 STANDARD OR AS AGREED BY ARCHITECT AND OWNER.
5. REMOVE AND REPLACE ANY CABLES FAILING TO MEET END-TO-END TESTING REQUIREMENTS. DO NOT ABANDON CABLE IN PLACE. ALL CABLE SHALL BE TERMINATED AT BOTH ENDS, UNLESS NOTED IN T-DRAWINGS.
1.4 SUBMITTALS
A. PRODUCT DATA
1. SPECIFIC PARTS AND EQUIPMENT MODELS MUST BE HIGHLIGHTED OR LISTED. SUBMITTALS NOTE MEETING THESE CRITERIA SHALL BE REJECTED FOR RESUBMITTAL.
2. ACCESSORIES.
3. COPPER CABLE, PATCH CABLES AND TERMINATION DEVICES
4. TEST REPORTS
a. SAMPLE OF EACH NETWORK CABLING TEST REPORT – FIBER OPTIC, COAX, AND UTP. SUBMIT COMPLETE SAMPLE TEST DATA AND REPORTS WITH EXACT LABELS USED ON CABLES, PATCH PANELS AND FACEPLATES.
1.5 WARRANTY
A. A FIFTEEN (15) YEAR EXTENDED PRODUCT WARRANTY AND SYSTEMS ASSURANCE WARRANTY FOR THIS WIRING SYSTEM SHALL BE PROVIDED BY THE MANUFACTURER.
B. SYSTEM CERTIFICATION: UPON SUCCESSFUL COMPLETION OF THE INSTALLATION AND SUBSEQUENT INSPECTION, THE OWNER SHALL BE PROVIDED WITH A NUMBERED CERTIFICATE, FROM THE MANUFACTURING COMPANY, REGISTERING THE INSTALLATION.
PART 2 - PRODUCTS
2.1 COMPONENTS
1. COPPER TWISTED PAIR DATA CABLES
a. 100 OHM CATEGORY 6/6A UNSHIELDED TWISTED PAIR CABLE (UTP)
2. ADDITIONAL BALANCED TWISTED-PAIR CABLING COMPONENTS
a. CAT 6 PATCH CABLES
b. FACTORY TERMINATED AND TESTED UTP PATCH CABLES AT WORKSTATION AND EQUIPMENT CROSS-CONNECT MEETING REQUIREMENTS OF ANSI/TIA/EIA-568-B FOR PATCH CABLE TESTING.
c. PROVIDE QUANTITY 2 FOR EACH COMPUTER OUTLET OF SUFFICIENT LENGTH TO REACH WORKSTATION FROM
3. CAT 6 PATCH PANELS
PART 3 - EXECUTION
3.1 EXAMINATION
A. SITE VERIFICATION OF CONDITIONS
1. EXAMINE CONDITIONS UNDER WHICH TELECOMMUNICATIONS CABLING AND EQUIPMENT AND RELATED COMPONENTS ARE TO BE INSTALLED IN COORDINATION WITH INSTALLER OF MATERIALS AND COMPONENTS SPECIFIED IN THIS SECTION AND NOTIFY AFFECTED PRIME CONTRACTORS AND ARCHITECT IN WRITING OF ANY CONDITIONS DETRIMENTAL TO PROPER AND TIMELY INSTALLATION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED TO ENSURE A SAFE AND TIMELY INSTALLATION.
3.2 INSTALLATION
[illegible]
3.3 LABELS
[illegible]
3.4 ACCEPTANCE
[illegible]
END OF SECTION

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