ARLINGTON COUNTY, VIRGINIA

2100 Clarendon Boulevard, Arlington, VA 22201

ARLINGTON
VIRGINIA

Approved: 10/27/2017

10/27/2017

PERMIT SUMMARY

ADDITIONAL INFORMATION

Permit Holder	
Contractor	
Type of Work	Commercial Alteration
Brief Description of Work	INTERIOR ALTERATION- TENANT EXPANSION
Code Cycle	2012

PLANS APPROVED BY

Area of Approval	Reviewer Name	Date
Environmental Services	Gary Mann	10/19/2017
ISD - Commercial Building	Eric Rice-Johnston	10/20/2017
ISD - Mechanical	Christopher M. Martin	10/20/2017
ISD - Plumbing	Christopher M. Martin	10/20/2017
Zoning	Liliana Rios	10/24/2017
ISD - Electrical	Craig Williams	10/27/2017

PLANS APPROVED AS NOTED BY THE FOLLOWING COMMENTS

Department	Sheet	Reviewer	Comment
CPHD Permit Tech		DPAULETTI	This submission is being rejected for the following reason:

ARLINGTON COUNTY, VIRGINIA

2100 Clarendon Boulevard, Arlington, VA 22201

ARLINGTON VIRGINIA

Approved: 10/27/2017

			Complete and upload the Accessibility Compliance Form. If you have any questions, call 703-228-3800
ISD - Commercial Building		ACOOK1	927/2017: Revision is rejected because only the comment letter was uploaded, no revised sheets were provided.
ISD - Commercial Building	10.12.17_Insight Global_Written Permit Responses	ERICE-JOHNSTON	10.12.17 Written Permit Responses 20 October 2017 Item #1: This drawing has been replaced into the permit drawing set. Thank you. Item #3: This comment remains open. The item is "Approved As Noted" as the specific change had not been made to the drawing. In this instance, the second required exit from the affected space (10th Floor) must be up the tenant staircase to the 11th floor, and the exit signs must reflect this condition.
ISD - Commercial Building	A5-4 - GLAZING ELEVATIONS @ SECTIONS	ERICE-JOHNSTON	A5-4 Glazing Elevations 9 October 2017 No elevation is noted for Offices #1108, #1109, #1117. Are these office walls expected to be similar to #1105, #1106, #1116? Verify.
ISD - Commercial Building	E110 - 10th Floor Lighting Plan	ERICE-JOHNSTON	E110 - 10th Floor Lighting Plan 9 August 2017 Rotate the exit sign as necessary to direct occupants up the internal stairway to the secondary exit. VCC §1011.1; §1015.1;

NEW PLAN SHEETS OR REVISIONS THAT WERE UPLOADED FOR THIS ACTIVE REVISION

10.12.17_Insight Global_Written Permit Responses - Comment Response Letter - (CTBO-3890-A)

A1-0 - COVER SHEET - Architectural - (CTBO-3890-A)

A3-2-11 - 11TH FLOOR CONSTRUCTION PLAN - Architectural - (CTBO-3890-A)

A3-3-11 - 11TH FLOOR POWER-SIGNAL PLAN - Architectural - (CTBO-3890-A)

ARLINGTON COUNTY, VIRGINIA

2100 Clarendon Boulevard, Arlington, VA 22201

ARLINGTON
VIRGINIA

Approved: 10/27/2017

A4-1-11 - 11TH FLOOR REFLECTED CEILING PLAN - Architectural - (CTBO-3890-A)

A4-2-11 - 11TH FLOOR FINISH PLAN - Architectural - (CTBO-3890-A)

A5-3 - MILLWORK SECTIONS - Architectural - (CTBO-3890-A)

A5-4 - GLAZING ELEVATIONS @ SECTIONS - Architectural - (CTBO-3890-A)

A6-1 - PARTITION TYPES - Architectural - (CTBO-3890-A)

A8-1 - DOOR DETAILS & SCHEDULES - Architectural - (CTBO-3890-A)

ADA Form - Forms and Letters - (CTBO-3890-A)

Asbestos Form - Forms and Letters - (CTBO-3890-A)

E111 - 11th Floor Lighting Plan - Electrical - (CTBO-3890-A)

E211 - 11th Floor Power Plan - Electrical - (CTBO-3890-A)

E601 - Riser Diagram and Schedule Sheet - Electrical - (CTBO-3890-A)

M211 - 11th Floor New Work Plan - Mechanical - (CTBO-3890-A)

Summary of Revisions - Forms and Letters - (CTBO-3890-A)

ARLINGTON
VIRGINIA

Approved: 10/27/2017

October 12, 2017

Plans Review Division
Arlington County
2100 Clarendon Boulevard
Arlington, Virginia 22201

Re: Insight Global
Revisions to Permit
Permit Number: EPlan #CTBO-3890 & B1701636

Dear Mr. Rice-Johnston:

The following is a written response to the Architectural review comments dated August 9, 2017:

1. *"Sheet A3-2-10 – 10th Floor Construction Plan appears to be missing."*

Response: The 10th Floor Construction Plan is not included as it is not part of the revision scope of work.

2. *"A5-4 Glazing Elevations 9 October 2017 No elevation is noted for Offices #1108, #1109, #1117. Are these office walls expected to be similar to #1105, #1106, #1116? Verify.."*

Response: Yes, Offices #1105, #1106 and #1116 are the mirror image of Offices #1108, #1109 and #1117. There is an elevation marker above Offices #1105, #1106 and #1116 that refer to an elevation #9 on sheet A5-4, which was included in the last submission. There is also an elevation marker above Offices #1108, #1109 and #1117 that also refer to elevation #9 on sheet A5-4 and is marked as OPP (Opposite).

3. *"E110 – 10th Floor Lighting Plan 9 August 2017 Rotate the exit sign as necessary to direct occupants up the internal stairway to the secondary exit. VCC 1011.1; 1015.1."*

Response: E110 was previously approved in the original submission and the 10th Floor is not part of the current revision scope of work.

If any additional information is necessary on any of these issues please let us know.

Thank you.

Anne Brown

Anne Brown
MORGAN GICK MCBEATH & ASSOCIATES, PC

GHT LIMITED
CONSULTING ENGINEERS

1110 North Glebe Road, Ste 300
Arlington, Virginia 22201

P 703.243.1200
F 703.276.1376

ARLINGTON VIRGINIA
Approved: 10/27/2017

August 10, 2017

Eric Rice-Johnston
Commercial Building Plan Reviewer
Arlington County
2100 Clarendon Boulevard
Arlington, VA 22201

RE: 1001 19th Street – Insight Global
Permit Comment Response
GHT project # 18808728
Permit # B1701636
Project ID # CTBO-3890

Dear Eric:

GHT acknowledges receipt of the permit comments for the above referenced project and have the following responses for electrical item:

1. E110 – 10th Floor Lighting Plan – Modify the exit signs as necessary to show occupants that the internal stairway serves as a required egress route.

   GHT Response: Exit signs modified on sheet E110 to comply.

Please contact me should you have any questions on this project.

Very truly yours,

GHT Limited

Laura Morder, PE
Associate

INSIGHT GLOBAL

OWNER:

BROOKFIELD OFFICE PROPERTIES, INC.

750 9TH STREET, NW
SUITE 700
WASHINGTON, DC 20001
(202) 467-7719
FAX (202) 467-7930
JIM BOURASSA

ARCHITECT:

MORGAN GICK McBEATH ASSOC., PC

131 GREAT FALLS STREET
FALLS CHURCH, VA. 22046
(703) 538 - 7100
FAX (703) 538 - 7112
ANNE BROWN

MEP:

GHT LIMITED

1110 N. GLEBE ROAD
SUITE 300
ARLINGTON, VA 22201
(703) 243 - 1200
LAURA MORDER

GENERAL CONTRACTOR:

TBD

XXXX STREET NAME
CITY, STATE ZIP
CODE
(XXX) XXX - XXXX
FAX (XXX) XXX -

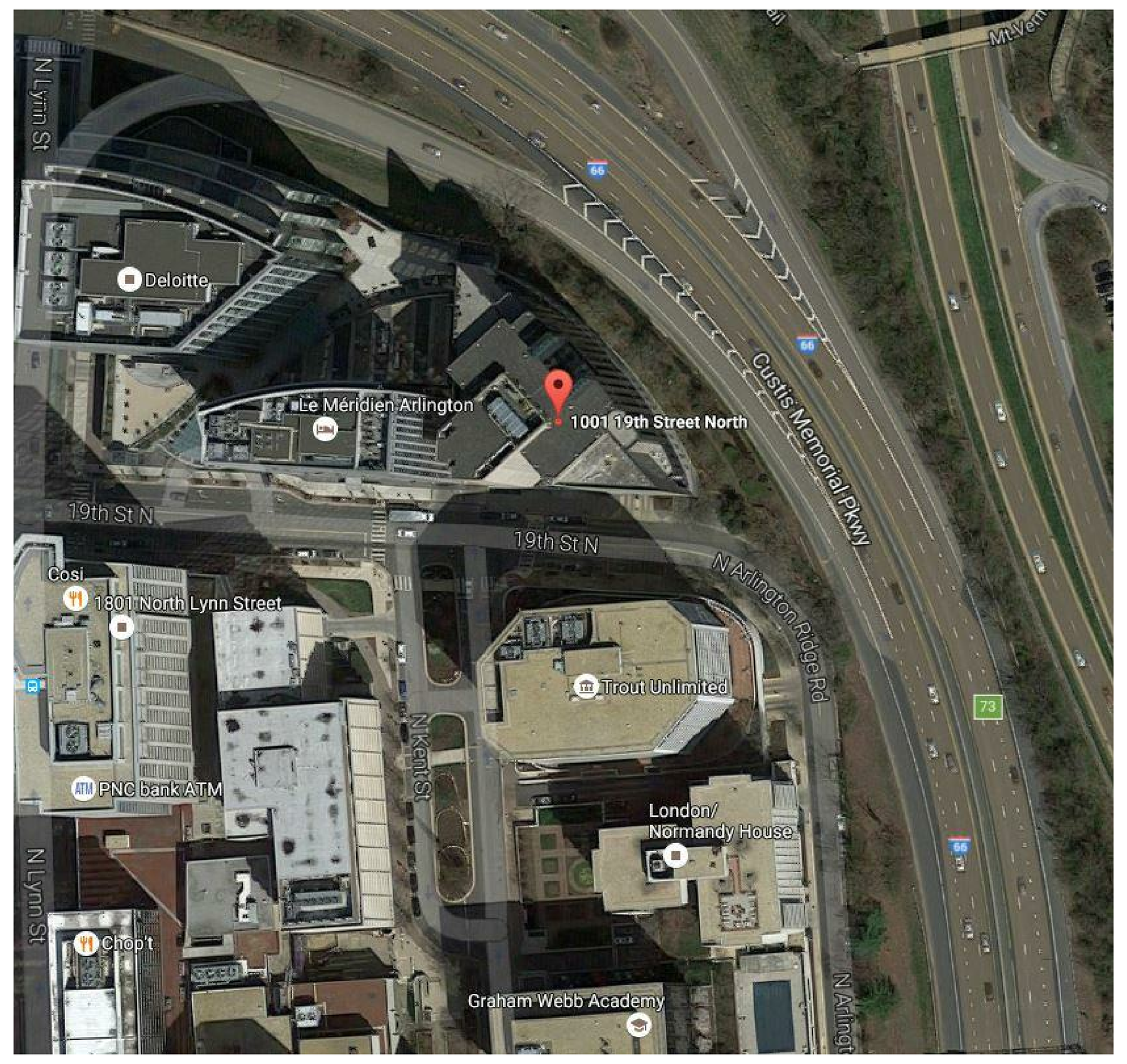
DIRECTIVE LETTER #2: SEPTEMBER 21, 2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

GENERAL SYMBOLS LEGEND

ROOM NAME XXX	ROOM NAME / NUMBER TAG				SECTION TARGET
1 A101	ELEVATION TARGET				GRID LINE
XXXX	DOOR NUMBER TAG				DATUM/ HT. AFF
X	PARTITION TYPE TAG			1	KEY NOTE TAG
1 A101	DETAIL TARGET			X1	WINDOW NUMBER TAG
	EARTH		WOOD FRAMING		ACOUSTICAL TILE
	GRANULAR FILL		FINISHED WOOD		BATT INSULATION
	CONCRETE		SHIMS/BLOCKING		RIGID INSULATION
	BRICK		ALUMINUM		GYPSUM
	CMU		STEEL		SEALANT BACKER ROD
	STONE (CUT OR CAST)		GENERIC HATCH		FIBROUS FIRE SAFING
	EIFS		PLYWOOD		CERAMIC TILE

VICINITY MAP / KEY PLAN



ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE	EA	EACH	INSUL	INSULATION	PT	POINT
ADD	ADDENDUM	ELEC	ELECTRIC	INT	INTERIOR	PSI	POUNDS PER SQUARE INCH
ADDN	ADDITION	EWC	ELECTRIC WATER COOLER	INV	INVERT	PSF	POUNDS PER SQUARE FEET
AFF	ABOVE FINISHED FLOOR	ELEV	ELEVATION	JAN	JANITOR	PC	PRECAST
AGG	AGGREGATE	EQ	EQUAL	JT	JOINT	PL	PROPERTY LINE
A/C	AIR CONDITIONING	EQUIP	EQUIPMENT	JST	JOIST	RAD	RADIUS
AL	ALUMINUM	EXH	EXHAUST	KP	KICK PLATE	REF	REFRIGERATOR
ALT	ALTERNATE	EXP	EXPANSION	KO	KNOCK OUT	REQD	REQUIRED
AB	ANCHOR BOLT	EJ	EXPANSION JOINT	LAM	LAMINATED	REV	REVISION
ARCH	ARCHITECT	EXIST	EXISTING	LAV	LAVATORY	R	RISER, RISERS
BSMT	BASEMENT	EXT	EXTERIOR	LG	LENGTH	RD	ROOF DRAIN
BM	BENCHMARK	FT	FEET	LT	LIGHT	RFG	ROOFING
BLKG	BLOCKING	FIN	FINISH	LWC	LIGHT WEIGHT CONCRETE	RM	ROOM
BD	BOARD	FIXT	FIXTURE	LVR	LOUVER	SECT	SECTION
BTM	BOTTOM	FL	FLASHING	MO	MASONRY OPENING	SHT	SHEET
BLDG	BUILDING	FLR	FLOOR	MATL	MATERIAL	SDG	SIDING
CAB	CABINET	FD	FLOOR DRAIN	MFR	MANUFACTURER	SIM	SIMILAR
CPT	CARPET	FLUOR	FLUORESCENT	MAX	MAXIMUM	SLDG	SLIDING
CIP	CAST IN PLACE	FTG	FOOTING	MECH	MECHANICAL	SPEC	SPECIFICATION
CLG	CEILING	FND	FOUNDATION	MTL	METAL	SPL	SPLASH
CEM	CEMENT	FR	FRAME	MEZZ	MEZZANINE	SQ	SQUARE
CL	CENTER LINE	FE	FIRE EXTINGUISHER	MW	MICROWAVE	STD	STANDARD
CER	CERAMIC	FHC	FIRE HOSE CABINET	MIN	MINIMUM	SS	STAINLESS STEEL
CT	CERAMIC TILE	GA	GAUGE	MLDG	MOULDING	STRUC	STRUCTURE
CHAN	CHANNEL	GALV	GALVANIZED	MR	MOISTURE RESISTANT	SUSP	SUSPENDED
CLR	CLEAR	GC	GENERAL CONTRACTOR	MTD	MOUNTED	SV	SMOKE VENT
CO	CLEAN OUT	GL	GLASS	MULL	MULLION	TOC	TOP OF CURB
COFF	COFFEE MAKER	G	GRAM	NOM	NOMINAL	TOW	TOP OF WALL
COL	COLUMN	GR	GROUND, GRADE	NIC	NOT IN CONTRACT	TYP	TYPICAL
CONF	CONFERENCE	GFI	GROUND FAULT INTERRUPTER	NTS	NOT TO SCALE	UON	UNLESS OTHERWISE NOTED
CONC	CONCRETE	GYP	GYPSUM	NO	NUMBER	VERT	VERTICAL
CONN	CONNECTION	GWB	GYPSUM WALL BOARD	OC	ON CENTER	VIF	VERIFY IN FIELD
CONST	CONSTRUCTION	HC	HANDICAP	OPG	OPENING	VEST	VESTIBULE
CJ	CONTROL JOINT CONSTRUCTION JOINT	HR	HAND RAIL	OA	OVERALL	VCT	VINYL COMPOSITE TILE
CONT	CONTINUOUS	HDN	HARDENER	OD	OUTSIDE DIAMETER	VCP	VITREOUS CLAY PIPE
CORG	CORRUGATED	HDWR	HARDWARE	OFD	OVERFLOW DRAIN	WWM	WELDED WIRE MESH
CTR	COUNTER	HDWD	HARDWOOD	PG	PAGE	WC	WATER CLOSET
CMU	CONCRETE MASONRY UNIT	HTR	HEATER	PR	PAIR	WH	WATER HEATER
DP	DAMP PROOFING	HT	HEIGHT	PTD	PAINTED	W/	WITH
DB	DECIBEL	HP	HIGH POINT	PNL	PANEL	W/O	WITHOUT
DIAG	DIAGONAL	HM	HOLLOW METAL	PTN	PARTITION	WB	WOOD BLOCKING
DIA	DIAMETER	HORIZ	HORIZONTAL	PL	PLATE	WD	WOOD
DIM	DIMENSION	HB	HOSE BIBB	PLAM	PLASTIC LAMINATE	WDO	WINDOW
DISP	DISPENSER	HW	HOT WATER	PLMB	PLUMBING		
DS	DOWNSPOUT	ICE	ICE MACHINE	PLYWD	PLYWOOD		
DWG	DRAWING	IN	INCH				
		ID	INSIDE DIAMETER				

SCOPE OF WORK

THE SCOPE OF WORK REPRESENTED ON THESE DRAWINGS HAS BEEN PROVIDED IN ORDER TO CONSTRUCT SUITES FOR A NEW TENANT. THE TENANT IS TAKING ALL OF THE 11TH FLOOR AND A PORTION OF THE 10TH FLOOR. THE 10TH FLOOR SUITE IS APPROXIMATELY 3,227 SQUARE FEET AND THE 11TH FLOOR IS 16,585 SQUARE FEET. THE WORK INCLUDES NEW INTERIOR PARTITIONS, ELECTRICAL, CEILING AND LIGHTING, PLUMBING FIXTURES, FINISHES AND MODIFICATIONS TO THE EXISTING MECHANICAL SYSTEMS. GC TO FURNISH LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES FOR WORK AS INDICATED OR INFERRED BY THE DOCUMENTS TO COMPLETE TO DESIGN INTENT. GC SHALL COMPLETELY COORDINATE WORK AND SHALL ASSUME THE BURDEN OF ADDITIONAL COST IF SEQUENCING RESULTS IN WORK HAVING TO BE REMOVED OR IF HIS COSTS INCREASE BECAUSE OF POOR SEQUENCING OF WORK. CONTRACTOR RESPONSIBLE FOR INCIDENTAL LOCAL JURISDICTION'S INTERPRETATIONS OF INTERNATIONAL BUILDING CODE.

CODE & BUILDING DATA

ARLINGTON COUNTY RELEVANT CODE INFORMATION

ARLINGTON COUNTY ZONING
2012 INTERNATIONAL BUILDING CODE
2009 ICC/ANSI A117.1
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FUEL GAS CODE
2011 NATIONAL ELECTRIC CODE (NFPA 70)
2012 INTERNATIONAL FIRE CODE
2010 NFPA 72 & 2010 NFPA 13
2012 INTERNATIONAL PROPERTY MAINTENANCE CODE

GENERAL BUILDING DATA:

SUBMITTER: MORGAN GICK McBEATH & ASSOCIATES
131 GREAT FALLS STREET
FALLS CHURCH, VIRGINIA 22046

BUILDING ADDRESS: POTOMAC TOWERS
1001 19TH STREET
ARLINGTON, VA 22209

BUILDING SQUARE FOOT CALCULATION (SEE NOTE 2):

10TH FLOOR	19,484 SF
11TH FLOOR	19,484 SF
TOTAL GROSS	38,968 SF

AREA OF WORK SQUARE FOOT CALCULATION (SEE NOTE 2):

SUITE 1000	3,237 SF
SUITE 1100	16,585 SF
TOTAL GROSS	19,822 SF

USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3-4):

USE GROUP: B-BUSINESS
MIXED USE (302.3): SEPERATED/ NONSEPERATED
HIGH RISE CODE (403.1): YES
FLOORS: B-BUSINESS

TYPES OF CONSTRUCTION (CHAPTER 6):

CONSTRUCTION TYPE: TYPE IIB

FIRE RESISTANCE RATING REQUIREMENTS (TABLE 601):

BUILDING ELEMENT:	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HOUR	EXISTING
EXTERIOR BEARING WALLS	0 HOUR	EXISTING
INTERIOR BEARING WALLS	0 HOUR	EXISTING
EXTERIOR NONBEARING PARTITIONS	0 HOUR	EXISTING
INTERIOR NONBEARING PARTITIONS	0 HOUR	EXISTING
FLOOR CONSTRUCTION	0 HOUR	EXISTING
ROOF CONSTRUCTION	0 HOUR	EXISTING

INTERIOR FINISHES (CHAPTER 8):

INTERIOR WALL AND CEILING FINISH REQUIREMENT (TABLE 803.9):

INTERIOR SPACE:	FINISH CLASS
VERTICAL EXISTS AND EXIT PASSAGEWAYS	CLASS B
EXIT ACCESS CORRIDORS AND OTHER EXITWAYS	CLASS B
ROOMS AND ENCLOSED SPACES	CLASS C

CLASS A: FLAMESPREAD 0-25 SMOKE DEVELOPED 0-450
CLASS B: FLAMESPREAD 26-75 SMOKE DEVELOPED 0-450
CLASS C: FLAMESPREAD 76-200SMOKE DEVELOPED 0-450

FIRE PROTECTION SYSTEMS (CHAPTER 9):

FIRE SUPPRESSION: FULLY SPRINKLERED, NFPA 13 (903.3.1.1)
MONITORED FIRE ALARM: SIGNAL, NFPA 72 (903.4.1)/ALARM (903.4.2)

MEANS OF EGRESS (CHAPTER 10):

OCCUPANT LOAD (TABLE 1004.1.1) 1 PER 100 SF

SUITE 1000:		
BUSINESS	2,414 SF X 1/100	= 24.14 OCCUPANTS
CONFERENCE	800 SF X 1/15	= 53.33 OCCUPANTS
STORAGE	23 SF X 1/300	= .08 OCCUPANTS
	TOTAL OCCUPANT LOAD	= 78 OCCUPANTS

SUITE 1100:		
BUSINESS	16,350 SF X 1/100	= 163.50 OCCUPANTS
STORAGE	235 SF X 1/300	= .78 OCCUPANTS
	TOTAL OCCUPANT LOAD	= 165 OCCUPANTS

MEANS OF EGRESS - CONTINUED (CHAPTER 10)

EGRESS WIDTH PER OCCUPANT SERVED (TABLE 1005.1)

STAIRWAYS	REQUIRED	PROVIDED
SUITE 1000	.3 @ 78 OCCUPANTS = 23.4"	2 @ 36" = 72"
SUITE 1100	.3 @ 165 OCCUPANTS = 49.5"	2 @ 36" = 72"

EGRESS	REQUIRED	PROVIDED
SUITE 1000	.2 @ 78 OCCUPANTS = 15.6"	3 @ 32" = 96"
SUITE 1100	.2 @ 165 OCCUPANTS = 33"	2 @ 32" = 64"

CORRIDOR FIRE-RESISTANCE RATING (TABLE 1016.1):

	REQUIRED	PROVIDED
SUITE 1000	0 HOUR	0 HOUR
SUITE 1100	0 HOUR	0 HOUR

MINIMUM NUMBER OF EXITS (FIGURE 1018.1)

	REQUIRED	PROVIDED
SUITE 1000	2 EXITS	2 EXITS
SUITE 1100	2 EXITS	2 EXITS

MINIMUM NUMBER OF PLUMBING FACILITIES (TABLE 2902.1)

PLUMBING SYSTEMS (CHAPTER 29)

POTOMAC TOWERS 10TH & 11TH FLOORS PLUMBING FIXTURE WORKSHEET

OCCUPANT LOAD

Floor	Business	Assembly	Storage	Other	Other	Other	Total
10TH & 11TH	195.00	0.00	0.00	0.00	0.00	0.00	195.00
Total	195.00	0.00	0.00	0.00	0.00	0.00	195.00

TOTAL BUILDING FIXTURES REQUIRED

	Men	Women	M WC	W WC	M Lav	W Lav	DF
Business Occupants	(/2)	(/2)	(-50 /50 +2)	(-50 /50 +2)	(-80 /80 +2)	(-80 /80 +2)	(/100)
195.00	97.50	97.50	2.95	2.95	2.22	2.22	1.95
Assembly Occupants	(/2)	(/2)	(/125)	(/65)	(/200)	(/200)	(/500)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Occupants	(/2)	(/2)	(/100)	(/100)	(/100)	(/100)	(/1000)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Occupants	(/2)	(/2)	(???)	(???)	(???)	(???)	(???)
0.00	0.00	0.00					
Total Required			2.95	2.95	2.22	2.22	1.95

FIXTURES PER FLOOR

			M WC	W WC	M Lav	W Lav	DF
7th-20th, Typ.	195.00 / 195.00	1.000	2.95	2.95	2.22	2.22	1.95
		Provided:	3	4	3	3	2

NOTES:

1. NOTE THAT THIS IS A IIB CONSTRUCTION TYPE BUILDING. COMBUSTIBLE MATERIALS, SUCH AS BLOCKING (PLYWOOD), ARE TO BE TREATED SO AS TO BE FLAME RETARDANE AS APPROVED BY THE LOCAL JURISDICTION. CONTRACTOR SHALL INCLUDE IN BID PROVISION FOR COSTS ASSOCIATED WITH THIS NOTE.

2. THE GROSS BUILDING AREA SHOWN IS CALCULATED AS DEFINED IN IBC SECTION 1002, DEFINITIONS FOR GROSS FLOOR AREA. OTHER AREA CALCULATIONS FOR LEASING OR CIVIL REQUIREMENTS ARE TO BE CALCULATED SEPARATELY BY OTHER DEFINING AGENCIES SUCH AS BOMA OR THE LOCAL ZONING CODE.

SHEET INDEX

GENERAL NOTES

GENERAL NOTES

1. THESE DOCUMENTS INDICATE THE DESIGN INTENT OF THE CONSTRUCTIONPROJECT IN ORDER TO ESTABLISH STANDARDS FOR QUALITY AND/OR PERFORMANCE.
2. THE CONTRACTOR SHALL INVESTIGATE THE JOBSITE AND COMPARE THE CONTRACT DOCUMENTS WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL INCLUDE IN HIS COST WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND THAT IS REQUIRED OR REASONABLY IMPLIED TO ACHIEVE THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW WORK, OF ANY OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK INCLUDING THE COORDINATION WITH STRUCTURAL AND MEP RELATED WORK.
3. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A COMPLETE JOB IN EVERY RESPECT THAT ALLOWS FOR THE FULL USE OF THE COMPLETED FACILITY AND CONSISTENT WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLETE UTILITY CONNECTIONS FOR WATER, SEWER, RAIN WATER LEADERS, DRAINS, POWER (WITH TRANSFORMING TO ACHIEVE APPROPRIATE AND NECESSARY VOLTAGE AND AMPERAGE), GROUNDS, NATURAL OR LP GAS, VENTS, VENTILATION, SMOKE EVACUATION, AND BLOCKING, BRIDGING, STRUCTURAL SUPPORTS, ETC. TO ALLOW FOR THE COMPLETE WORKING OF NOTED OR INFERRED EQUIPMENT.
4. REASONABLY INFERRED CONDITIONS NOT OTHERWISE INDICATED IN THESE CONSTRUCTION DOCUMENTS SHALL BE INTERPRETED AS HAVING THE SAME MEANING AS THOSE MOST SIMILARLY DETAILED AND MORE FULLY DEFINED ELSEWHERE WITHIN THESE DOCUMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF CLARIFICATIONS ARE REQUIRED. CONTRACTOR SHALL BE LIABLE IF INAPPROPRIATE INTERPRETATIONS CONFLICT WITH OTHER ELEMENTS OF THE WORK.
5. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS INDICATED WITH THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF MATERIALS, FABRICATION OR CONSTRUCTION. CONTRACTOR SHALL BE LIABLE FOR RESTOCKING CHARGES, REPLACEMENT COSTS AND FOR DELAYS IF HE FAILS TO COMPLY WITH THIS PROVISION.
6. THE CONTRACTOR, UPON AWARDING CONTRACTS TO SUBCONTRACTORS, SHALL SUBMIT TO THE ARCHITECT AND THE OWNER A LIST OF ITEMS AND THEIR DELIVERY SCHEDULES. THE CONTRACTOR, PRIOR TO ORDERING AN ITEM, SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT AND OWNER OF ANY ITEM WHICH MAY CAUSE THE PROJECT TO BE DELAYED BECAUSE OF LONG LEAD TIME IN OBTAINING.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACHIEVING SUBSTANTIAL COMPLETION REGARDLESS OF DELIVERY DATES FOR MATERIALS AND EQUIP.
8. THE ARCHITECT HAS NOT CONDUCTED NOR INTENDS TO CONDUCT ANY INVESTIGATION AS TO THE PRESENCE OF HAZARDOUS MATERIALS, INCLUDING ASBESTOS, WITHIN THE CONFINES OF THIS PROJECT. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR THE IDENTIFICATION, THE REMOVAL OR ANY EFFECTS FROM THE PRESENCE OF THESE MATERIALS.
9. THE GENERAL AND SPECIAL CONDITIONS AIA DOCUMENT A-201 AND DIVISION 1 OF THE SPECIFICATIONS SHALL GOVERN WORK TO THE EXTENT THAT THEY APPLY. THE DRAWINGS AND THE SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE BINDING AS IF CALLED FOR BY BOTH.
10. THE CONTRACTOR SHALL ISSUE COMPLETE SETS OF CONTRACT DOCUMENTS TO EACH OF THE SUBCONTRACTORS FOR COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE OF
11. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. CONTRACTOR SHALL PROVIDE COPIES OF TRANSACTIONS TO OWNER AND NOTIFY ARCHITECT OF ANY VARIANCE WITH CODES IN FORCE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REGULATIONS OF ANY AND ALL PUBLIC AUTHORITIES (FEDERAL, STATE, AND LOCAL) HAVING AUTHORITY OVER THE PROJECT.
12. THE CONTRACTOR SHALL PROVIDE AND PAY FOR ANY MATERIALS, LABOR, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, WAREHOUSING, TRANSPORTATION AND DELIVERY COSTS, HOISTING, REMOVAL OF TRASH AND DEBRIS, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK.
13. WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. REFERENCES TO THE CONTRACTOR SHALL INCLUDE THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS
14. THE ARCHITECT AND OWNER SHALL NOT BE RESPONSIBLE FOR THE ERRORS, OMISSIONS OR DELAYS RESULTING FROM THE CONTRACTOR'S PERFORMANCE.

GENERAL NOTES (CONTINUED)

15. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
17. OTHER CONTRACTORS AND THEIR SUBCONTRACTORS MAY BE WORKING ON THE PREMISES SIMULTANEOUS WITH THE DURATION OF THIS CONTRACT. NO ACTION SHALL BE TAKEN ON THE PART OF THIS CONTRACTOR OR ANY SUBCONTRACTOR TO IMPEDE THE ACCESS OR OPERATION OF ANY OTHER CONTRACTOR ON THE PREMISES, EITHER UNION OR NON-UNION.
18. WORK SHALL BE DONE DURING NORMAL WORKING HOURS. CONTRACTOR SHALL SCHEDULE AND PERFORM WORK SO AS NOT TO UNREASONABLY DISTURB ANY TENANT IN THE BUILDING AND SHALL BE RESPONSIBLE FOR ANY OVERTIME COSTS INCURRED THEREBY.
19. THE CONTRACTOR SHALL COORDINATE AND WORK WITH BUILDING OWNER REGARDING HEAT, WATER, ELECTRICITY, DELIVERIES, ACCESS, ELEVATOR AVAILABILITY, STAGING, NOISE CONTROL, TRASH AND DEBRIS REMOVAL, HOISTING, AND ANY OTHER UTILITIES OR OWNER'S RULES AND REGULATIONS CONCERNING THE PROJECT SITE. CONTRACTOR SHALL COORDINATE USE OF RESTROOM FACILITIES FOR HIS EMPLOYEES WITH THE OWNER.
20. THE CONTRACTOR SHALL PROCURE MATERIALS SO AS NOT TO DELAY SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL NOTIFY ARCHITECT WITHIN 5 DAYS OF EXECUTION OF CONTRACT OF ANY MATERIAL DELIVERY WHICH WOULD DELAY COMPLETION OF CONTRACT.
21. THE CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND INSTALLATION OF ITEMS FURNISHED BY THE OWNER AND BY OTHERS. FOR THE PURPOSES OF THIS CONTRACT, THE FOLLOWING DEFINITIONS APPLY:
OF-OI = OWNER FURNISHED-OWNER INSTALLED
OF-CI = OWNER FURNISHED-CONTRACTOR INSTALLED
CF-CI = CONTRACTOR FURNISHED-CONTRACTOR INSTALLED
CF-OI = CONTRACTOR FURNISHED-OWNER INSTALLED
22. THE CONTRACTOR SHALL COORDINATE AND WORK WITH TRADES ON THE PROJECT NOT UNDER CONTRACT TO THE CONTRACTOR (I.E. TELEPHONE, DATA LINES, FIRE ALARM, ETC.). ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN SUCH TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
23. UNLESS OTHERWISE NOTED WHEN DRAWINGS ARE IN CONFLICT, ENLARGED PLANS AND DETAILS GOVERN. HOWEVER, THE ARCHITECT SHALL MAKE THE FINAL DETERMINATION IN THESE MATTERS.
24. SUBMIT FOR ARCHITECT'S REVIEW ABOVE BUILDING STANDARD SAMPLES AND LITERATURE. SUBMIT FOR ARCHITECT'S CONSIDERATION SAMPLES AND PRODUCT LITERATURE AND OTHER PERTINENT DATA OF ANY PROPOSED SUBSTITUTIONS. ANY SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO IMPLEMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESEARCH AND QUALIFY THAT THE PERFORMANCE AND CONSTRUCTION SPECIFICATIONS MEET THOSE OF THE ORIGINALLY SPECIFIED ITEM PRIOR TO SUBMISSION FOR APPROVAL. CONTRACTOR SHALL BE LIABLE FOR MATERIALS THAT ARE NOT AVAILABLE DUE TO UNTIMELY ORDERING AND FOR THE COORDINATION OF SUBSTITUTIONS WITH OTHER TRADES AND DISCIPLINES.
25. SHOP DRAWINGS AS REQUIRED, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION. SUBMIT FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION OR PURCHASE, SHOP DRAWINGS OR SAMPLES FOR MILLWORK, CUSTOM METALWORK, CUSTOM CASEGOODS, AND OTHER ITEMS AS REQUESTED BY ARCHITECT
26. PERFORM WORK AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP.
27. GYPSUM WALLBOARD AND METAL STUD CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS AND INSTRUCTIONS PUBLISHED BY U.S. GYPSUM COMPANY GYPSUM CONSTRUCTION HANDBOOK, LATEST EDITION. CONSTRUCTION JOINTS MUST OCCUR AT A MAXIMUM OF 30 FEET ON CENTER. PROVIDE DEFLECTION JOINTS AT PARTITIONS CONTINUING TO UNDERSIDE OF ROOF DECK.
28. FINISH CARPENTRY AND MILLWORK SHALL BE DONE IN ACCORDANCE WITH THE ARCHITECTURAL WOODWORKS INSTITUTE (AWI) STANDARDS FOR SELECTION OF MATERIALS, HARDWARE, FABRICATION, WORKMANSHIP AND FINISHING.

GENERAL NOTES (CONTINUED)

29. CHANGES IN THE WORK SHALL BE ONLY ALLOWED WITH ONE OF THE FOLLOWING WRITTEN DIRECTIVES: 1) ARCHITECT'S DIRECTIVE FOR MINOR CHANGES IN WORK, 2) CONSTRUCTION CHANGE DIRECTIVE FROM THE ARCHITECT, OR 3) CHANGE ORDER ISSUED BY ARCHITECT. CHANGES MUST FOLLOW MODIFICATION PROCEDURES NOTED IN AIA A201 - ARTICLE 7. CHANGES REQUIRING A CHANGE IN COST OR TIME, MUST BE EXPLICITLY NOTED AT TIME OF DISCUSSION IN FIELD, NOTIFICATION OF ARCHITECT OR AT JOB PROGRESS MEETING AND FOLLOWED WITHIN TWO WORKING DAYS BY WRITTEN CONFIRMATION. IF CHANGE IS AGREED TO WITHOUT EXPLICIT REFERENCE TO CHANGE IN COST OR TIME, A SUBSEQUENT CHANGE ORDER MAY BE JUSTIFIABLY REJECTED.
30. THE CONTRACTOR SHALL EXAMINE SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES OR MILLWORK PRIOR TO INSTALLATION. START OF INSTALLATION SHALL IMPLY ACCEPTANCE OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS AGAINST IMPROPER PERFORMANCE OF INSTALLED MATERIAL. ADVISE ARCHITECT OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH AND PLUMB WITHIN INDUSTRY STANDARDS PRIOR TO START OF CONSTRUCTION.
31. THE CONTRACTOR SHALL INSTALL AND MAINTAIN NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT OCCUPANTS AND EXISTING WORK AND FINISHES TO REMAIN. REPAIR AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTION AT NO ADDITIONAL CHARGE TO OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH MAY OCCUR DURING EITHER THE DEMOLITION OR CONSTRUCTION PHASE TO THE EXISTING BUILDING, CONTRACTOR SHALL REPAIR SAME IMMEDIATELY TO MATCH ADJACENT SURFACES IN GOOD CONDITION.
32. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCES OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
33. THE CONTRACTOR SHALL MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES AND LIFE SAFETY SYSTEMS IN WORKING ORDER.
34. EXIT DOORS, EGRESS DOORS, AND OTHER DOORS REQUIRED FOR MEANS OF EGRESS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
35. VERIFY KEYING REQUIREMENTS OF LOCKS WITH OWNER.
36. 24 HOURS PRIOR TO OCCUPANCY OF ANY PHASE, THOROUGHLY CLEAN SURFACES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIAL AND EQUIPMENT. VACUUM OR MOP FLOORS AND CLEAN WINDOWS. THE CONTRACTOR, AT THE COMPLETION OF THIS PROJECT, SHALL CLEAN THE ENTIRE TENANT SPACE AND LEAVE IT IN ACCEPTABLE CONDITION.
37. SUBSTANTIAL COMPLETION SHALL BE THE DATE ON WHICH THE PREMISES ARE AVAILABLE FOR OCCUPANCY FROM THE CONTRACTOR AND SHALL BE AS DEFINED IN AIA DOCUMENT A201. ADDITIONAL TOUCHUP OR MINOR INSTALLATION WORK MAY BE INCOMPLETE.
38. WARRANT TO THE OWNER THAT MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED, AND WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND CONFORMS WITH THE CONTRACT DOCUMENTS.
39. FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROMPTLY CORRECT WORK FOUND NOT TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BEAR COSTS OF CORRECTIONS.
40. UNLESS OTHERWISE NOTED, FASTENERS AND ATTACHMENTS SHALL BE FULLY CONCEALED FROM VIEW.
41. THE ARCHITECT'S SEAL, AFFIXED TO THESE CONTRACT DOCUMENTS, SHALL CERTIFY TO THE BEST OF OUR KNOWLEDGE THAT THESE DRAWINGS MEET THE APPLICABLE STATE AND LOCAL CODES. IF ANY PORTION OF THESE DOCUMENTS IS FOUND TO BE IN CONFLICT WITH STATE OR LOCAL CODES, THE ARCHITECT SHALL BE NOTIFIED OF CONFLICTS IN WRITING BY THE CONTRACTOR.
42. THE ARCHITECT HAS MADE HIS BEST EFFORTS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1992. IF ANY PORTION OF THIS WORK IS FOUND TO BE IN CONFLICT WITH ADA COMPLIANCE, THE ARCHITECT SHALL BE NOTIFIED OF CONFLICTS IN WRITING BY THE CONTRACTOR IMMEDIATELY.
43. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING THE OWNER A COMPLETE SET OF AS-BUILT OR RECORD DOCUMENTS.
44. PROVISIONS OF THE AIA A201 - GENERAL CONDITIONS APPLY TO THIS CONTRACT BY REFERENCE UNLESS SPECIFICALLY MODIFIED IN WRITING BY THE ARCHITECT OR OWNER.

BUILDING CODE COMPLIANCE

1. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, LOCAL AUTHORITY REGULATIONS AND LOCAL CODE OFFICIAL'S DIRECTIVES.
2. THE CONTRACTOR SHALL PROVIDE APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM WITH CENTRAL STATION MONITORING (IF REQUIRED).
3. PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE PROTECTED WITH APPROPRIATE FIRE DAMPERS, FIRE SAFING OR FIRE DOORS AS REQUIRED BY LOCAL CODE OFFICIALS. THE INTEGRITY OF APPROPRIATE FIRE SEPARATIONS SHALL BE MAINTAINED DURING AND AFTER THE SCOPE OF WORK OF THIS CONTRACT IS COMPLETED.
4. HARDWARE SCHEDULED FOR INSTALLATION ON DOORS AND FRAMES WHICH REQUIRE A FIRE-RATED LABEL SHALL COMPLY WITH CODE REQUIREMENTS GOVERNING HARDWARE TYPE AND INSTALLATION METHODS FOR RATED ASSEMBLIES. PANIC HARDWARE WILL BE USED WHERE APPLICABLE. FREE ACCESS TO EXITWAYS SHALL BE MAINTAINED.
5. PROVIDE EMERGENCY LIGHTING WITH A MINIMUM VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL THROUGHOUT.

PARTITION NOTES

1. CLEAR (CLR) DIMENSIONS MUST BE HELD. DIMENSIONS NOTED AS CLEAR OR CRITICAL SHALL BE MEASURED FROM FINISHED FACE TO FINISHED FACE.
2. DRAWING DIMENSIONS ARE TO THE FINISHED FACE OF WALL SURFACE UNLESS NOTED OTHERWISE.
3. MAKE NO MECHANICAL ATTACHMENTS TO EXTERIOR STOREFRONT OR WINDOW WALL MULLIONS IN ANY WAY.
4. PROVIDE 3/4" EXTERIOR GRADE FIRE RETARDANT PLYWOOD FOR ELECTRICAL AND TELEPHONE PANELS IN EQUIPMENT ROOMS AS REQUIRED.
5. CONSTRUCT PARTITIONS AND CEILINGS PER MANUFACTURER'S RECOMMENDATIONS WITH DEFLECTIONS NOT TO EXCEED 1/240 OF THE SPAN. PROVIDE FIRE RATINGS AS REQUIRED BY CODE - SEE IBC AND LOCAL CODE MODIFICATIONS FOR SPECIAL FIRE STOPPING REQUIREMENTS.
6. INSTALL BLOCKING OR GROUNDS AT PARTITIONS TO RECEIVE HANGING CABINETRY OR SHELVING.
7. INSTALL CEMENT BOARD SUBSTRATE WHERE CERAMIC TILE IS INDICATED.
8. INSTALL STEEL FRAMING FOR PARTITIONS TO COMPLY WITH ASTM C-754 AND THE GYPSUM CONSTRUCTION HANDBOOK BY U.S. GYPSUM, LATEST EDITION.
9. INSTALL AND FINISH GYPSUM BOARD TO COMPLY WITH ASTM C-840, GA-216 BY GYPSUM ASSOCIATION AND GYPSUM CONSTRUCTION HANDBOOK BY U.S. GYPSUM, LATEST EDITION. PREPARE SURFACE AS REQUIRED FOR FINAL SURFACE FINISH AS RECOMMENDED BY GYPSUM CONSTRUCTION HANDBOOK.
10. PROVIDE FIRE RESISTANCE RATED PARTITION ASSEMBLIES IDENTICAL TO U.L. DESIGNATIONS (UNDERWRITERS LABORATORY) SHOWN IN THE FIRE RESISTANCE DIRECTORY OR LISTED BY OTHER TESTING AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

MILLWORK NOTES

1. MILLWORK AND CASEWORK SHALL COMPLY WITH ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM. LATEST EDITION, CUSTOM GRADE UNLESS OTHERWISE NOTED.
2. INSTALL FIRE RETARDANT TREATED WOOD PRODUCTS WHERE REQUIRED TO COMPLY WITH BUILDING CODE.
3. COORDINATE INSTALLATION OF IN-WALL STEEL ANCHORAGE, GROUNDS, AND MISCELLANEOUS BLOCKING WITH OTHER TRADES FOR PRECISE LOCATION.
4. THE MILLWORK CONTRACTOR SHALL OBTAIN AND VERIFY FIELD MEASUREMENTS AND CONDITIONS AFFECTING HIS WORK AND SHALL BE RESPONSIBLE FOR DETAILS AND DIMENSIONS ASSURING PRECISION AND PROPER ASSEMBLY OF MILLWORK PRODUCTS.
5. COORDINATE ITEMS TO INSURE DELIVERY TO THE PROPER LOCATION AND VERIFY THAT FREIGHT ELEVATOR CAN ACCOMMODATE DELIVERY OF THESE ITEMS (AS REQUIRED).
6. SET WORK PLUMB, LEVEL AND SQUARE, SCRIBED TIGHTLY AND ACCURATELY TO ADJACENT SURFACES, SECURELY ANCHORED IN POSITION INDICATED ON DRAWINGS TO HIGHEST QUALITY STANDARD.
7. LAMINATE EDGES OF COUNTER TOPS AND EDGES OF DOORS PRIOR TO FACING COUNTER TOPS OR DOORS.

MILLWORK NOTES (CONTINUED)

8. COORDINATE EXACT PLACEMENT OF PLUMBING AND ELECTRICAL FIXTURES, SWITCHES, AND OUTLETS TO BE INSTALLED WITHIN THE MILLWORK.
9. REPAIR, REPLACE OR OTHERWISE MAKE GOOD TO SATISFACTION OF ARCHITECT DAMAGE INCURRED TO MILLWORK DURING CONSTRUCTION.
10. ADJUST DOORS, DRAWERS AND HARDWARE FOR PROPER OPERATION AND CLEAN SURFACES, INSIDE AND OUT.
11. COMPLY WITH MILLWORK MANUFACTURERS AND INSTALLERS RECOMMENDED OPTIMUM TEMPERATURE AND HUMIDITY CONDITIONS FOR STORAGE AND INSTALLATION OF MILLWORK.
12. COMPLY WITH ARCHITECTURAL WOODWORK QUALITY STANDARDS, GUIDE SPECIFICATIONS AND QUALITY CERTIFICATION PROGRAM, SECTION 1500 FACTOR FINISHING SYSTEMS FOR FINISHES NOTED.

FINISH NOTES

1. INSPECT MATERIALS FOR DEFECTS, FLAWS, SHIPPING DAMAGE, CORRECT COLOR AND PATTERN, INFORM ARCHITECT OF ANY DEFECTIVE MATERIALS AND COORDINATE WITH THE MANUFACTURER FOR AN ACCURATE SHIPPING DATE FOR THE REPLACEMENT MATERIAL.
2. FLOOR COVERINGS SHALL BE REPAIRED IN RENOVATION WORK TO MATCH ADJACENT SURFACES. FLOOR COVERING IN CLOSET(S) SHALL MATCH ADJACENT ROOM UNLESS OTHERWISE NOTED.
3. VCT SHALL BE INSTALLED WITH THE PATTERN GRAIN ALTERNATING IN A CHECKERBOARD CONFIGURATION UNLESS OTHERWISE NOTED.
4. INSTALL VINYL COVE BASE FOR RESILIENT TILE FLOOR AREAS UNLESS OTHERWISE NOTED. ARCHITECT SHALL CHOOSE COLOR.
5. INSTALL RUBBER TRANSITION STRIP AT POINTS WHERE CARPET AND RESILIENT TILE FLOORING MEET. RUBBER STRIP COLOR TO MATCH BASE COLOR UNLESS OTHERWISE NOTED.
6. DIRECT GLUE CARPET UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROPRIATELY LEVEL AND SMOOTH CONCRETE OR OTHER SUBSTRATE TO MEET THE CARPET INDUSTRY'S STANDARDS PRIOR TO INSTALLATION.
7. CARPET SHALL BE INSTALLED IN SAME DIRECTION.
8. SEAM CARPET AT DOORS ON CENTERLINE OF DOORS.

PAINTED SURFACES

1. PAINTED FINISH METAL AND WOOD TRIM SHALL BE SEMI-GLOSS ALKYD ENAMEL, COLOR TO MATCH ADJACENT WALL, UNLESS OTHERWISE NOTED. OTHER SURFACES SHALL BE LATEX, FLAT FINISH. PAINTED FINISHES WITHIN BATHROOMS AND KITCHEN/GALLEYS SHALL BE SEMI-GLOSS ALKYD ENAMEL.
2. PREPARE FOR AND APPLY PAINT IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE, ONE COAT PRIME AND 2 FINISH COATS MINIMUM APPLICATION. FOLLOW INDUSTRY STANDARDS FOR SURFACE PREPARATION AND APPLICATION ENVIRONMENT (TEMPERATURE AND HUMIDITY).

WALLCOVERING

1. INTERIOR FINISH MATERIALS SHALL COMPLY WITH LOCAL CODES. WHEN REQUIRED BY BUILDING OFFICIALS, APPLY FLAME PROOFING TO FABRIC WALLCOVERINGS.
2. WALLCOVERINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE APPLICATION, INCLUDING TEMPERATURE AND DUST CONTROL. WALLCOVERING REQUIRING BACKING SHALL BE SO PROVIDED. APPLY WALL PRIMER PRIOR TO APPLYING ADHESIVE FOLLOWING MANUFACTURER'S INSTRUCTION.
3. INSTALL SEAMS PLUMB AND NOT LESS THAN 6 INCHES FROM CORNERS; HORIZONTAL SEAMS NOT PERMITTED.
4. REMOVE EXCESS ADHESIVE PROMPTLY, REPLACE PANELS WHICH CANNOT BE COMPLETELY CLEANED.
5. INSTALLATION OF PATTERNED FABRIC WALLCOVERING SHALL BE MATCHED AT EDGE TO ADJACENT FABRIC PANEL.
6. REMOVE SWITCH PLATES AND SURFACE MOUNTED FIXTURES TO PERMIT WALLCOVERING INSTALLATION AND REINSTALL UPON COMPLETION.
7. WALLCOVERING SHALL BE FROM CONSISTENT DYE LOTS.
8. NO SUBSTITUTION OF ANY SPECIFIED WALLCOVERING OR FINISH MAY BE MADE WITHOUT PRIOR APPROVAL OF ARCHITECT.

TILE

1. INSTALL TILE IN ACCORDANCE WITH TILE COUNCIL OF AMERICA HANDBOOK FOR CERAMIC TILE INSTALLATION METHODS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SUBSTRATE (I.E. WATER RESISTANT GYPSUM BOARD, WONDERBOARD, ETC.).

TELEPHONE/DATA/ELECTRICAL/ILLUMINATION

1. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL CODES.
2. IN MEP DESIGN-BUILD PROJECTS, MECHANICAL AND ELECTRICAL ENGINEERING DRAWINGS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR COORDINATING VARIOUS TRADES. CONTRACTOR SHALL CONTROL INSTALLATION SEQUENCE OF VARIOUS ITEMS TO ACCOMMODATE DIMENSIONAL REQUIREMENTS OF TOTAL ASSEMBLY INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, DATA, TELEPHONE AND SPRINKLER PIPING AND EQUIPMENT.
3. ANY DISCREPANCY BETWEEN THE ARCHITECTURAL , MECHANICAL, ELECTRICAL AND PLUMBING ENGINEER'S OR OTHER CONSULTANT'S DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION. WORK INSTALLED IN CONFLICT WITH THE ARCHITECT'S DRAWINGS OR CREATING CONFLICTS BECAUSE OF INSUFFICIENT COORDINATION OF WORK SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND SHALL NOT IMPACT SCHEDULE.
4. REFER TO ENGINEERING DRAWINGS FOR CIRCUITING AND SPECIFICATIONS. MECHANICAL AND ELECTRICAL ENGINEER'S DWGS DO NOT SPECIFY LOCATIONS OF FIXTURES, OUTLETS OR EQUIPMENT - REFER TO ARCHITECT'S DRAWINGS.
5. SEPARATE JUNCTION BOXES BY ONE STUD WHERE TELEPHONE AND ELECTRICAL OUTLETS APPEAR BACK TO BACK.
6. OUTLETS, SWITCHES AND JUNCTION BOXES LOCATED IN ACOUSTICAL PARTITIONS SHALL RECEIVE EQUIVALENT INSULATION BEHIND BOXES.
7. WHERE WALL MOUNTED OUTLETS ARE INDICATED SIDE BY SIDE, THE MAXIMUM SEPARATION SHALL BE 6" CL-TO-CL, UNLESS OTHERWISE NOTED.
8. GANG ELECTRICAL OUTLETS AND SWITCHES WHERE POSSIBLE.
9. WALL MOUNTED TELEPHONE, ELECTRICAL AND DATA OUTLETS SHALL BE INSTALLED AT +18" ABOVE FINISHED FLOOR , UNLESS OTHERWISE NOTED.
10. INSTALL LIGHT SWITCHES AT +42" AFF AND WITHIN 8" OF DOOR FRAME, UNLESS OTHERWISE NOTED. FOLLOW ADA REGULATIONS IN ALL APPLICABLE CIRCUMSTANCES.
11. THERMOSTATS SHALL BE INSTALLED AT +60" INCHES AFF ADJACENT TO LIGHT SWITCHES, UNLESS OTHERWISE NOTED.
12. INCANDESCENT LIGHT FIXTURES TO BE ON DIMMERS,UNLESS OTHERWISE NOTED.
13. WHERE LIGHTS AND SWITCHES ARE NOT NOTED WITH A LOWER CASE LETTER DESIGNATION, THE SWITCHES ARE TO BE CONNECTED ONLY TO THOSE LIGHT FIXTURES WITHIN THAT SPECIFIC ROOM.
14. FLOOR MOUNTED OUTLETS ARE DIMENSIONED FROM THE CENTERLINE OF THE OUTLET TO THE FINISHED FACE OF THE PARTITION AND/OR COLUMN UNLESS OTHERWISE NOTED.
15. ELECTRICAL ITEMS INDICATED IN OR ON CABINETRY SHALL BE SUPPLIED, INSTALLED AND COORDINATED BY THE CONTRACTOR.
16. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS FOR FLOOR OR WALL OUTLETS TO FURNITURE SYSTEM POWER PANELS, WHERE APPLICABLE FOLLOWING MANUFACTURER'S STANDARDS FOR INSTALLATION AND APPLICABLE CODES.
17. TELEPHONE AND DATA OUTLETS SHALL BE A 2-GANG OUTLET BOX WITH A SINGLE GANG DRYWALL RING, AND A PULL STRING WITH RING FOR WIRING. WIRING OR CABLING SHALL BE BY OTHERS UNLESS NOTED OTHERWISE.
18. THE SIZE OF NEW TELEPHONE AND DATA LINE CONDUITS SHALL BE PER SUPPLIER'S SPECIFICATIONS. VERIFY REQUIREMENTS WITH OWNER.
19. INSTALL BUILDING STANDARD COVER PLATES FOR OUTLETS AND SWITCHES.
20. EXHAUST FANS SHALL BE SILENT RUNNING AND SHALL HAVE A MINIMUM 8'-0" LONG DUCT BETWEEN THE RETURN GRILLE AND THE FAN MOTOR. DUCT SHALL BE LINED WITH 1" THICK FIBERGLASS LINER. DO NOT LOCATE FAN MOTOR ABOVE CEILING OF ROOM SERVED BY FAN; LOCATE MOTOR ABOVE CORRIDOR OR OPEN AREA CEILINGS. PROVIDE SPARK PROOF MOTORS OR EXPLOSION PROOF MOTORS FOR LOCATIONS INVOLVING FLAMMABLE MATERIALS (BATTERY CHARGING ROOM, ETC.).
21. ACCESS PANELS AS REQUIRED SHALL BE INSTALLED FLUSH IN CEILING AND FINISHED TO MATCH THE ADJACENT CEILING FINISH. LOCATIONS OF ACCESS PANELS ARE TO BE REVIEWED WITH THE ARCHITECT.

131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

ARLINGTON VIRGINIA Approved: 10/27/2017

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT REVISIONS	07.20.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA WILLIAM H. McBEATH Lic. No. 011211 ARCHITECT

JOB NUMBER	11096-014

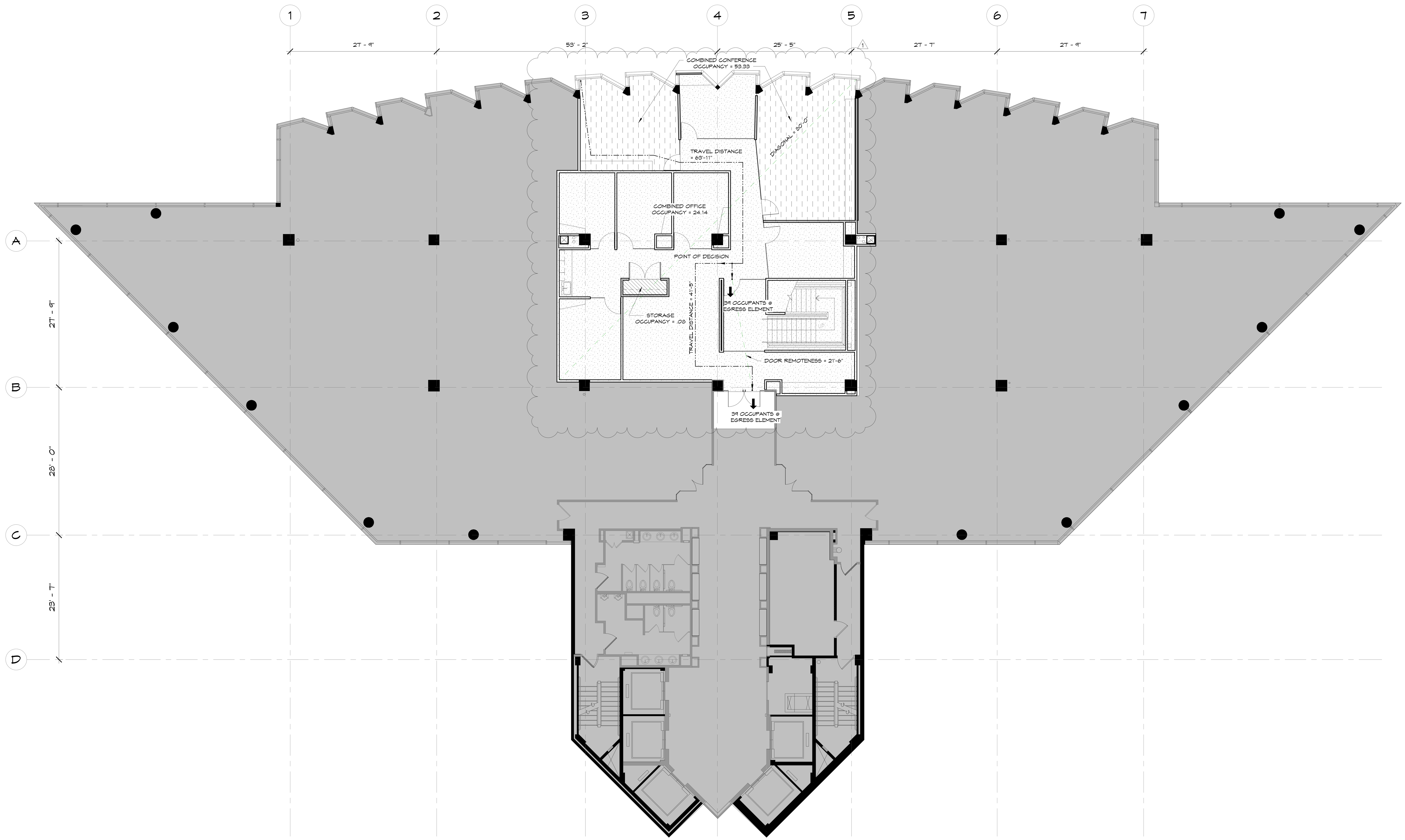
PROJECT NOTES

TA1.1

7/24/2017 3:55:28 PM

OCCUPANCY LEGEND

░	BUSINESS OCCUPANCY
┆	CONFERENCE OCCUPANCY
▨	STORAGE OCCUPANCY
N.I.C.	NOT IN CONTRACT



1 10TH FLOOR EGRESS PLAN
1/8" = 1'-0"

PLAN NORTH

131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

ARLINGTON VIRGINIA
Approved: 10/27/2017

INSIGHT GLOBAL

1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
1	PERMIT REVISIONS	07.20.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

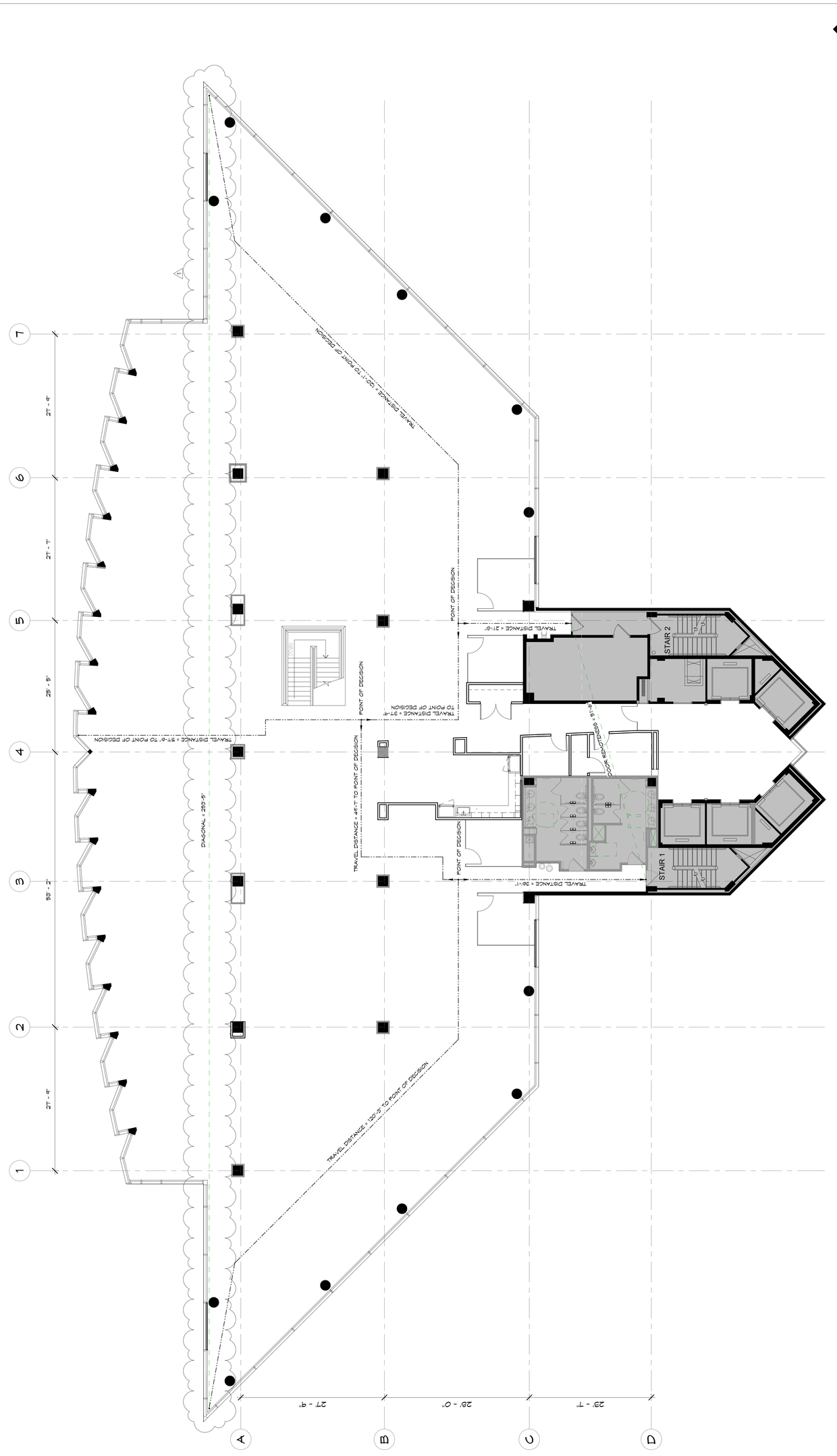
COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
ARCHITECT

JOB NUMBER	11096-014

10TH FLOOR EGRESS PLAN

TA3.0-10

7/24/2017 3:55:32 PM



1 11TH FLR EGRESS PLAN
1/8" = 1'-0"

PLAN NORTH

11TH FLR EGRESS PLAN

JOB NUMBER 11086-014

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. MARATH
ARCHITECT
No. 012121

NO.	DESCRIPTION	DATE
1	PERMIT REVISIONS	07.20.17
	BID SET	07.21.17
	PERMIT SET	08.28.17
	OWNER REVIEW	09.27.17

SUBMISSIONS / REVISIONS

INSIGHT GLOBAL

1001 19th STREET
ARLINGTON, VA 22209

MORGAN GICK MUSEATH
Architecture | Interiors | Planning
Arlington, VA 22046
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

TA3.0-11

7/24/2017 3:55:34 PM

DEMOLITION NOTES

1	NO DEMOLITION WORK IS REQUIRED ON THIS FLOOR

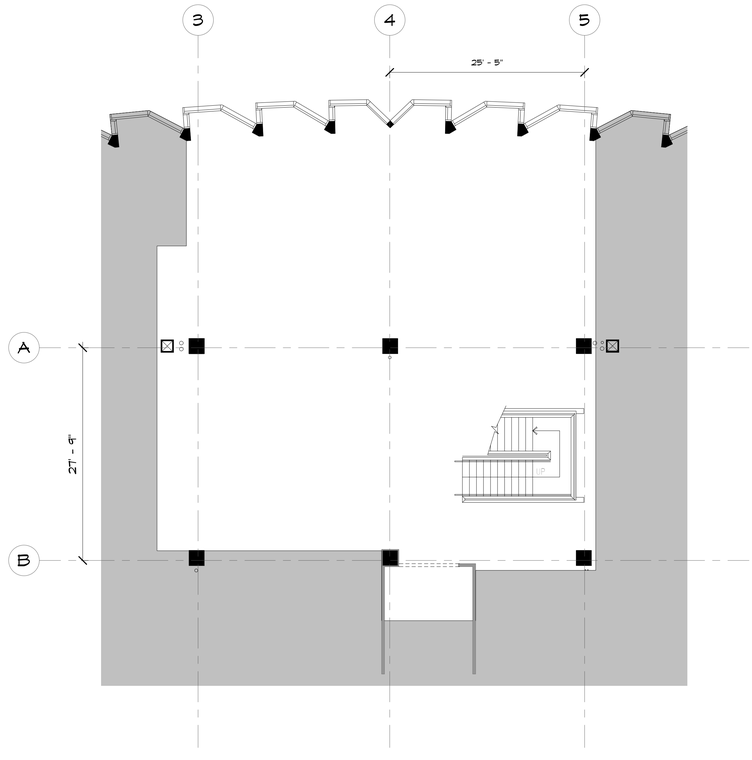
DEMOLITION LEGEND

EXISTING PARTITION TO REMAIN

LINE OF EXISTING BULKHEAD ABOVE

EXISTING DOOR

N.I.C. NOT IN CONTRACT



1 10TH FLOOR DEMOLITION PLAN
1/8" = 1'-0"

PLAN NORTH

MORGAN GICK McBEATH
ARLINGTON
Approved: 10/18/2017
VIRGINIA 22046
WWW.MORGANGICK.COM
123 GREAT FALLS STREET FALLS CHURCH
703.538.7100 703.538.7112 FAX

INSIGHT GLOBAL

1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	PERMIT SET - 06.28.17	06.28.17
	OWNER REVIEW	06.27.17

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Lic. No. 011211
ARCHITECT

JOB NUMBER	11096-014

10TH FLOOR DEMOLITION PLAN

TA3.1-10

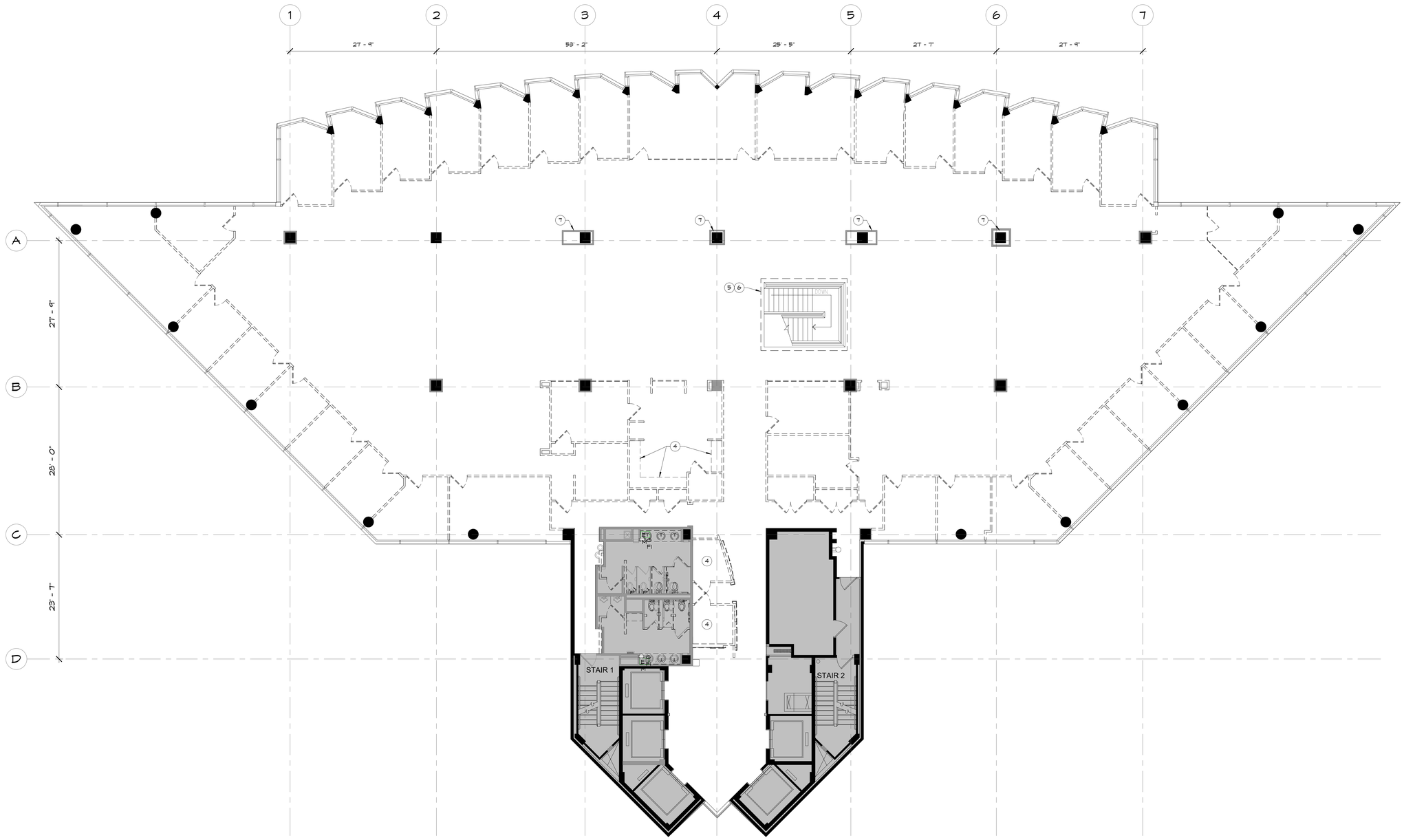
6/27/2017 1:27:03 PM

DEMOLITION NOTES

1	CONTRACTOR TO DEMOLISH ALL PARTITIONS SHOWN AS DASHED, TERMINATE ALL ELECTRICAL CONDUITS AND RE-ALLOCATE AS NOTED IN ELECTRICAL DOCUMENTS AND PER ENGINEERING DOCUMENTS, SALVAGE AND RECYCLE METAL STUDS, REPURPOSE IF IN GOOD CONDITION
2	RECYCLE ALL CARPET; CONTACT JEFF MITNITSKY AT INTERFACE (404) 784-7757, JEFF.MITNITSKY@INTERFACE.COM FOR RECYCLING
3	ALL DATA CABLING TO BE REVIEWED BY LOCAL IT TEAM FOR RE-USE AND RE-UTILIZATION, ALL UNUTILIZED DATA CABLING TO BE REMOVED
4	DEMOLISH EXISTING MILLWORK AND ANY ASSOCIATED PLUMBING
5	REMOVE HANDRAIL AND BASE WOOD VENEER OF EXISTING GLASS RAILING SYSTEM ONLY, PREP FOR NEW NO-1 HANDRAIL AND BASE INSTALLATION
6	GLASS SMOKESCREEN AROUND PERIMETER OF STAIR OPENING ON 10TH FLOOR TO BE REMOVED
7	EXISTING COLUMN FURR-OUT TO REMAIN
8	CONTRACTOR TO DEMOLISH EXISTING DRYWALL CEILING, LIGHT FIXTURES, EXIT SIGNS, SPEAKERS AND ALL OTHER CEILING MOUNTED DEVICES; LIGHTS, SIGNS, ETC, TO BE TURNED OVER TO THE BUILDING OWNER

DEMOLITION LEGEND

- EXISTING PARTITION TO REMAIN
- PARTITION TO BE DEMOLISHED
- EXISTING DOOR
- DOOR AND FRAME TO BE REMOVED AND SAVED FOR RE-USE
- N.I.C. — NOT IN CONTRACT



1 11TH FLR DEMOLITION PLAN
1/8" = 1'-0"

PLAN NORTH

MORGAN GICK McBEATH
Approved: 10/17/2017
121 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL

1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	PERMIT SET - 06.28.17	06.28.17
	OWNER REVIEW	06.27.17

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Lic. No. 011211
ARCHITECT

JOB NUMBER	11096-014

11TH FLOOR DEMOLITION PLAN

TA3.1-11

6/27/2017 1:27:12 PM

CONSTRUCTION NOTES

1	CONTRACTOR TO ALIGN NEW PARTITION WITH OPENING OF SLAB ABOVE, EXTEND NEW 42"+1 BASE OF GLASS RAILING SYSTEM TO PLUG GAP BETWEEN NEW PARTITION AND STAIR AS REQUIRED
2	TENANT PROVIDED ARTWORK TO BE INSTALLED BY THE CONTRACTOR AT COMPLETION OF PROJECT (11 PIECES TOTAL), CONFIRM OTHER LOCATIONS WITH TENANT
3	CONTRACTOR TO PROVIDE AND INSTALL 3/4" THK FIRE RETARDANT, PAINT GRADE AT SIDE OF COAT CLOSET FOR IT SWITCH, MOUNT ABOVE ADA HEIGHT SHELF
4	CONTRACTOR TO PROVIDE COAT ROD AND SHELF, HALF OF COAT ROD/SHELF TO BE MOUNTED AT 60" A.F.F. AND THE REMAINING HALF TO BE INSTALLED AT ADA HEIGHT OF 48" A.F.F., REFER TO SECTION 13/TA5.2 FOR ADDITIONAL INFORMATION

CONSTRUCTION LEGEND

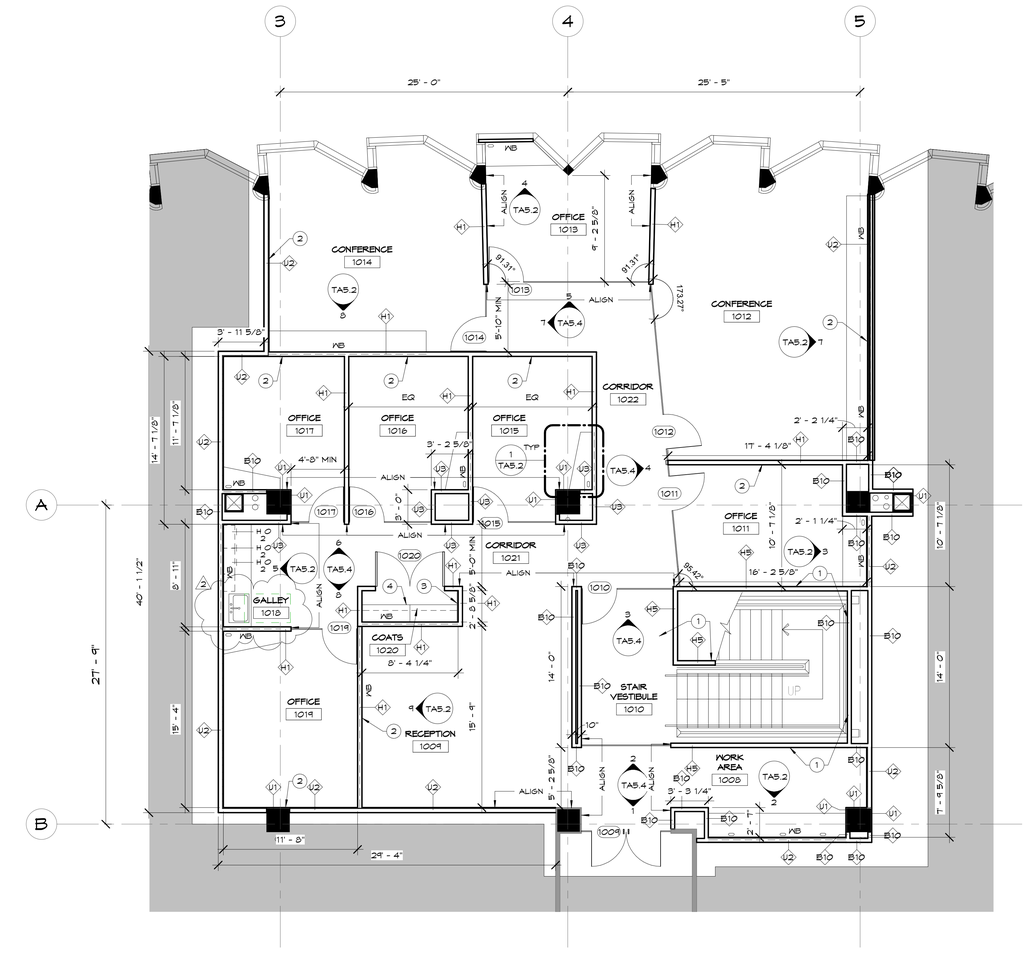
- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR
- NEW DOOR
- WALL TYPES, REFER TO SHEET TA6.1
- INTERIOR ELEVATION TARGETS (1 / A101)
- DETAIL TARGET (1 / A101)

ROOM NAME / XXX — ROOM IDENTIFICATION

XXXX — DOOR NUMBER

WB — INDICATES F.R. WOOD OR METAL BLOCKING WITHIN WALL

N.I.C. — NOT IN CONTRACT



1 10TH FLOOR CONSTRUCTION PLAN
3/16" = 1'-0"

PLAN NORTH

MGMA
RENOVATION
Approved: 10/18/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
2	PERMIT REVISIONS #2	08.10.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB
SEALS	

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH IV
LICENSED
ARCHITECT

JOB NUMBER	11096-014

10TH FLOOR CONSTRUCTION PLAN

TA3.2-10

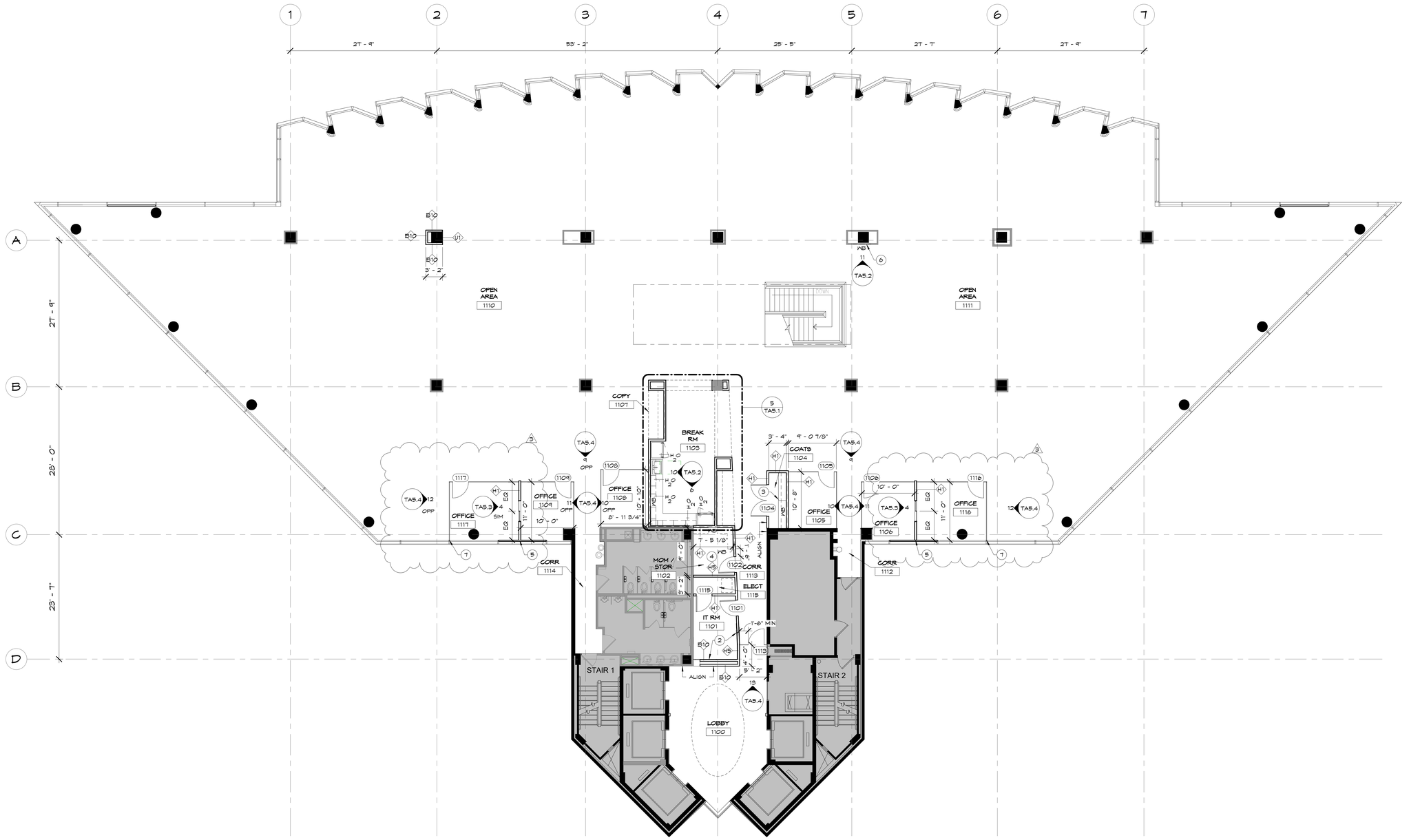
8/10/2017 6:12:06 PM

CONSTRUCTION NOTES

1	NOTE NOT USED
2	CONTRACTOR TO PROVIE AND INSTALL 3/4" THK FIRE RETARDANT, PAINT GRADE PLYWOOD FROM TOP OF BASE TO UNDER SIDE OF CEILING, TYPICAL AT WALLS INDICATED
3	CONTRACTOR TO PROVIDE COAT ROD AND SHELF, HALF OF COAT ROD/SHELF TO BE MOUNTED AT 80" A.F.F. AND THE REMAINING HALF TO BE INSTALLED AT ADA HEIGHT OF 48" A.F.F., REFER TO SECTION 13/TA5.2 FOR ADDITIONAL INFORMATION
4	CONTRACTOR TO PROVIDE FIVE (5) 3/4"THK X 13"D ADJUSTABLE DURAFLAKE SHELVES ON HEAVY DUTY METAL STANDARDS AND BRACKETS, STANDARDS TO BE 36" O.C. MAXIMUM. SHELF FINISH TO BE WHITE MELAMINE. PROVIDE FIRE RETARDANT BLOCKING IN WALL AS REQUIRED, REFER TO SECTION 13/TA5.2 FOR ADDITIONAL INFORMATION
5	CONTRACTOR TO PROVIDE MULLION MATE AGAINST GLASS, REFER TO DETAIL 14/TA6.1
6	OWNER PROVIDED TV AND MOUNTING BRACKET, CONTRACTOR TO INSTALL MOUNTING BRACKET AND LAMINATE KEYBOARD LEDGE, PROVIDE WOOD BLOCKING AS REQUIRED
7	CONTRACTOR TO CENTER GLASS ON WINDOW MULLION, REFER TO DETAIL 15/TA6.1

CONSTRUCTION LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR
- NEW DOOR
- WALL TYPES, REFER TO SHEET TA6.1
- INTERIOR ELEVATION TARGETS (1 / A101)
- DETAIL TARGET (1 / A101)
- ROOM NAME / XXX — ROOM IDENTIFICATION
- XXXX — DOOR NUMBER
- WB — INDICATES F.R. WOOD OR METAL BLOCKING WITHIN WALL
- N.I.C. — NOT IN CONTRACT



1 11TH FLR CONSTRUCTION PLAN
1/8" = 1'-0"

PLAN NORTH

MGMA
RENOVATION CONSULTING
Approved: 10/18/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Lic. No. 012311
ARCHITECT

JOB NUMBER	11096-014

11TH FLOOR CONSTRUCTION PLAN

TA3.2-11

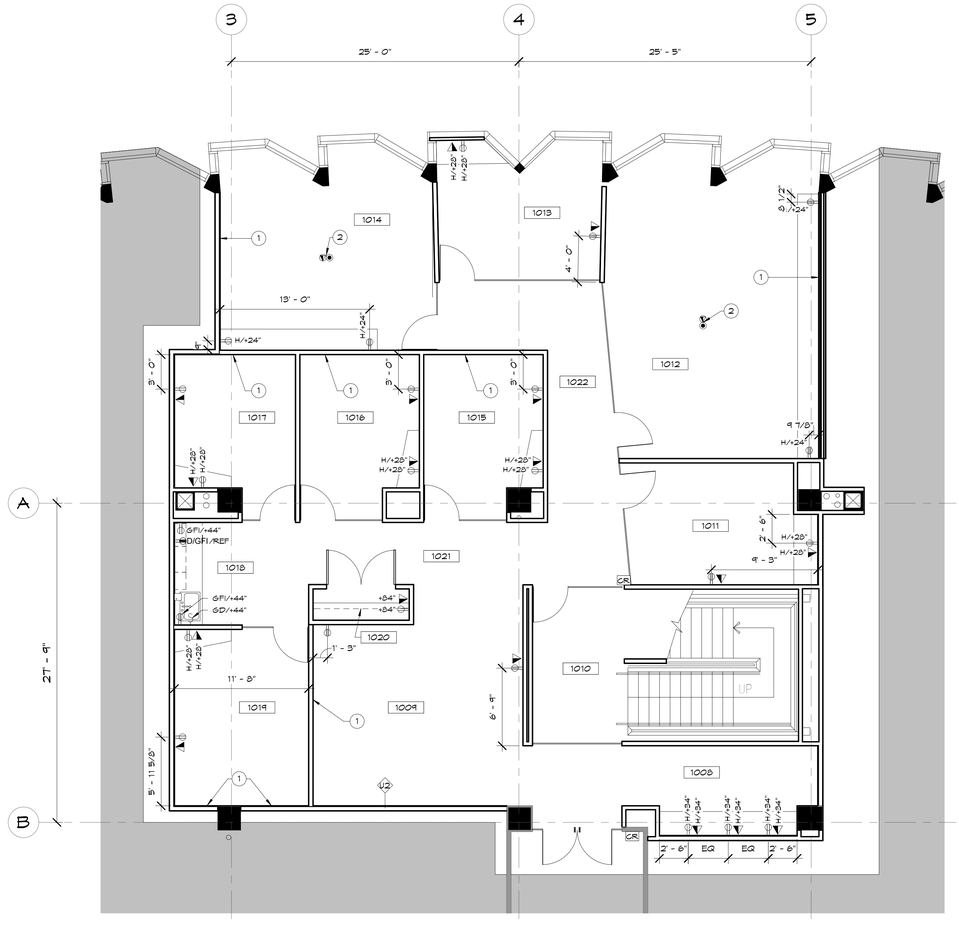
9/22/2017 6:54:46 AM

POWER/SIGNAL NOTES

1	NO HVAC, POWER, DATA OR FIRE ALARM DEVICES ON THIS WALL EXCEPT THOSE NOTED ON THIS DRAWING
2	CONTRACTOR TO COORDINATE EXACT LOCATION OF FLOOR CORE/BOX WITH TENANT'S FURNITURE VENDOR

POWER/SIGNAL LEGEND

H	POWER AND PHONE/DATA RECEPTACLES TO BE INSTALLED HORIZONTALLY, U.O.N.
	DUPLEX RECEPTACLE FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.
GFI	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE FLUSH MTD., VERTICALLY @ 18" A.F.F., U.O.N.
D	DEDICATED RECEPTACLES FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N. ON SINGLE CIRCUIT
	DUPLEX FLOOR CORE FLUSH MOUNTED BY WIREMOLD LEGRAND, RC3ATCGY (GRAY)
	TELE/DATA JACK @ FLOOR CORE FLUSH MOUNTED, BY WIREMOLD LEGRAND, RC3ATCGY (GRAY)
	DATA/TELE JACK FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.
CR	J-BOX FOR CARD READER MOUNTED @ 48" A.F.F., PROVIDE 3/4" CONDUIT TO 6" ABOVE THE CEILING
J	JUNCTION BOX @ 18" A.F.F. UNLESS OTHERWISE NOTED
GD	SWITCH FOR GARBAGE DISPOSAL, MOUNTED @ 44" A.F.F.
REF	UNDER COUNTER REFRIGERATOR, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR



1 10TH FLOOR POWER/SIGNAL PLAN
3/16" = 1'-0"

PLAN NORTH

MORGAN GICK McBEATH & Associates
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

Approved: 10/13/2017

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	PERMIT SET - 06.28.17	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Reg. No. 011211
ARCHITECT

JOB NUMBER	11096-014

10TH FLOOR POWER/SIGNAL PLAN

TA3.3-10

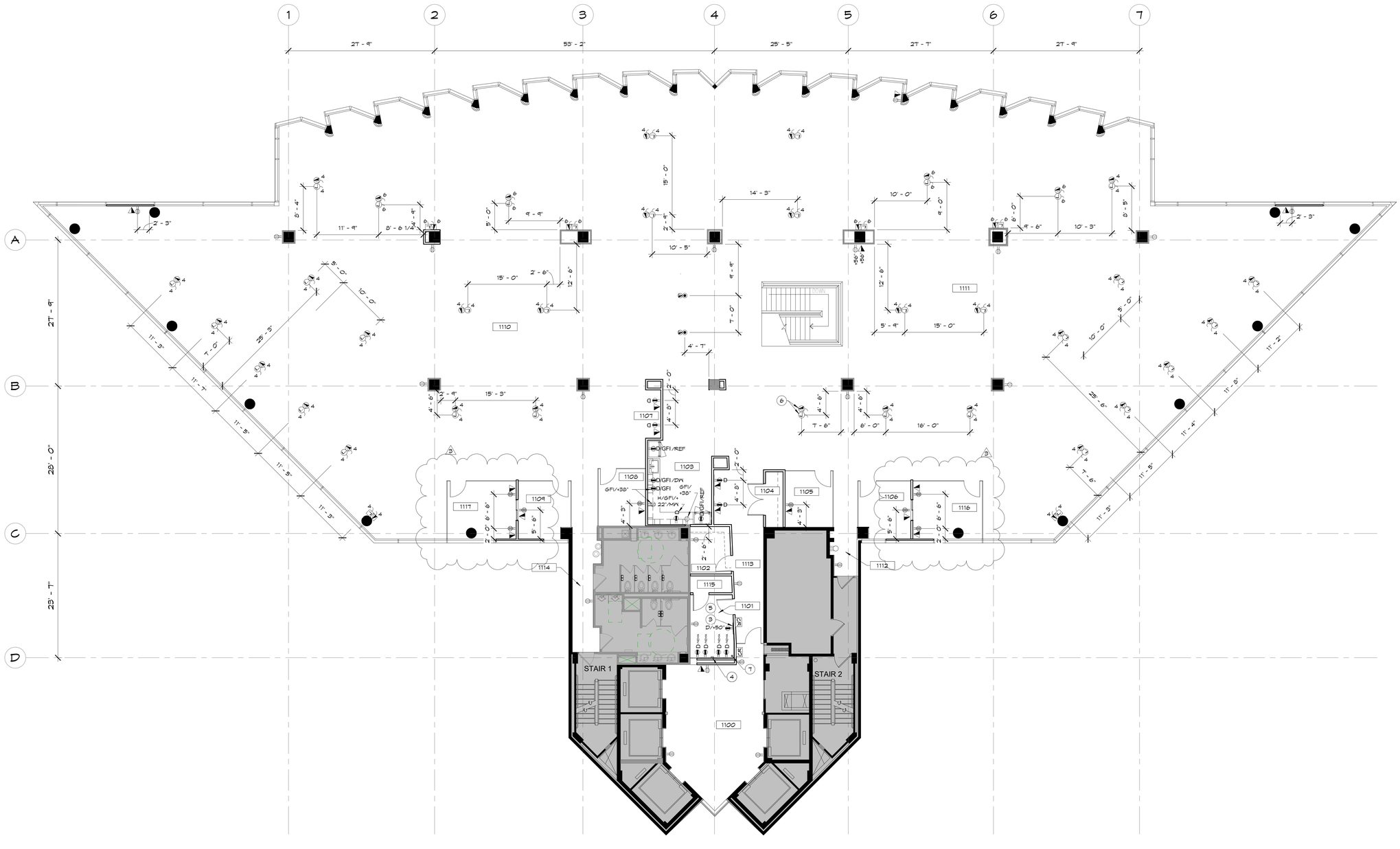
6/27/2017 1:27:27 PM

POWER/SIGNAL NOTES

1	CONTRACTOR TO COORDINATE FINAL LOCATION OF FLOOR BOX WITH TENANT'S FURNITURE VENDOR
2	EACH WORKSTATION TO HAVE (1) CAT 6 PLENUM RATED DATA CABLE FOR ALL COMMUNICATIONS, TENANT PROVIDED
3	SECURITY PANEL, MOUNTED @ 50" A.F.F.
4	GROUND BAR FOR IT SERVICE TECHICIANS TO BE INSTALLED 10" BELOW THE ACOUSTICAL CEILING GRID
5	CONTRACTOR TO PROVIDE 2" CONDUIT RUNNING FROM IT ROOM TO BUIDLING'S TELECOM ROOM
6	CONTRACTOR TO PROVIDE BLANK COVER PLATE FOR FUTURE USE
7	CONTRACTOR TO PROVIDE 4" DIA FLOOR CORE WITH SLEEVE FOR CAT 6 CABLING TO WORKSTATIONS

POWER/SIGNAL LEGEND

H	POWER AND PHONE/DATA RECEPTACLES TO BE INSTALLED HORIZONTALLY, U.O.N.	T	DATA/TELE JACK FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.	⌀	4" DIA FLOOR CORE FOR CAT 6 CABLING
GFI	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE FLUSH MTD., HORIZONTALLY @ 18" A.F.F., U.O.N.	CR	J-BOX FOR CARD READER MOUNTED @ 48" A.F.F., PROVIDE 3/4" CONDUIT TO 6" ABOVE THE CEILING
D	DEDICATED RECEPTACLES FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N. ON SINGLE CIRCUIT	J	JUNCTION BOX @ 18" A.F.F. UNLESS OTHERWISE NOTED
D/NEMA	DEDICATED 20 AMP, NEMA 5-20R RECEPTACLES FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N. ON SINGLE CIRCUIT	SD	SWITCH FOR GARBAGE DISPOSAL, MOUNTED @ 44" A.F.F.
	QUADRUPLEX RECEPTACLE FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.	REF	UNDER COUNTER REFRIGERATOR, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	DUPLEX FLOOR CORE FLUSH MOUNTED BY WIREMOLD LEGRAND, RCSATCGY (GRAY)	DW	DISHWASHER, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	TELE/DATA JACK @ FLOOR CORE FLUSH MOUNTED, BY WIREMOLD LEGRAND, RCSATCGY (GRAY)	GD	GARBAGE DISPOSAL, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	JUNCTION BOX MOUNTED FLUSH WITH WALL/COLUMN U.O.N. WITH ELECTRICAL WHIP FOR SYSTEMS FURNITURE	MW	MICROWAVE, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	JUNCTION BOX MOUNTED FLUSH WITH WALL/COLUMN U.O.N. WITH PHONE/DATA WHIP FOR SYSTEMS FURNITURE		
	4" DIA ELECTRICAL FLOOR BOX WITH "PIG-TAIL", BY WIREMOLD LEGRAND, 4FFATCGY (GRAY), # INDICATES NUMBER OF WORKSTATIONS SERVED, SEE POWER/SIGNAL NOTE #1		
	4" DIA DATA AND/OR VOICE CABLING FLOOR BOX, BY WIREMOLD LEGRAND, AFFATCGY (GRAY), # INDICATES NUMBER OF WORKSTATIONS SERVED, SEE POWER/SIGNAL NOTES #1 AND #2		



1 11TH FLR POWER/SIGNAL PLAN
1/8" = 1'-0"

PLAN NORTH

MORGAN GICK McBEATH
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

RENOVATION
Approved: 10/17/2017

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB
SEALS	

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
LICENSE 011731
ARCHITECT

JOB NUMBER	11096-014

11TH FLOOR POWER/SIGNAL PLAN

TA3.3-11

9/22/2017 6:54:48 AM

REFLECTED CEILING NOTES

1	ALL LIGHTING TO HAVE DUAL TECH OCCUPANCY SENSORS, EXCEPT RECEPTION AND CONFERENCE, IF REQUIRED TO HAVE MOTION SENSORS, SET SENDORS TO LONGEST SETTING
2	CONTRACTOR TO COORDINATE FIXTURE LOCATIONS WITH 8" OPENINGS IN WOOD SLAT CEILING

REFLECTED CEILING LEGEND

2'X2' CEILING TILE
MFR: ARMSTRONG
TILE: OPTIMA
EDGE: SQUARE LAY-IN, #3251
COLOR: WHITE
GRID: SILHOUETTE 9/16" WITH 1/8" REVEAL
COLOR: WHITE

A — 2' X 2' LED LIGHT FIXTURE
MFR: PHILIPS / LEDALITE
MODEL: PUREFX, 9422-D2-ST-L-B-36-S
LAMP: 3500K

B1 — 4" SQ RECESSED LED DOWN LIGHT FIXTURE
MFR: SPECTRUM LIGHTING, INC.
MODEL: SGE4SQLEDDS-20L-35K-DS10
LAMP: 3500K
TRIM: CA0244OS-MW

B2 — 4" SQ RECESSED LED WALL WASH LIGHT FIXTURE
MFR: SPECTRUM LIGHTING, INC.
MODEL: SGW4SQLEDDS-20L-35K-DS10
LAMP: 3500K
FRAME KIT: CA0294OS-MW

D — UNDER CABINET TASK LIGHTING
MFR: FEELUX
MODEL: FLUSTIX NDV SERIES, NDV40K-ST-STD-S-5FT-HW-NDM
LAMP: LED, CONTINUOUS

F1-SM F2-MED F3-LG — ROUND PENDANT LIGHT FIXTURE
MFR: DESIGN WITHIN REACH
MODEL: RANDOM LIGHT (SMALL, MEDIUM & LARGE SIZES), WHITE
LAMP: 60W, 120V, A19, E26

G — 4" DIA RECESSED LED DOWN LIGHT FIXTURE
MFR: EATON (COOPER LIGHTING)
MODEL: LDA4A-20-4-35
LAMP: 3500K, 90 CRI
TRIM: 4LA1-LI-WF

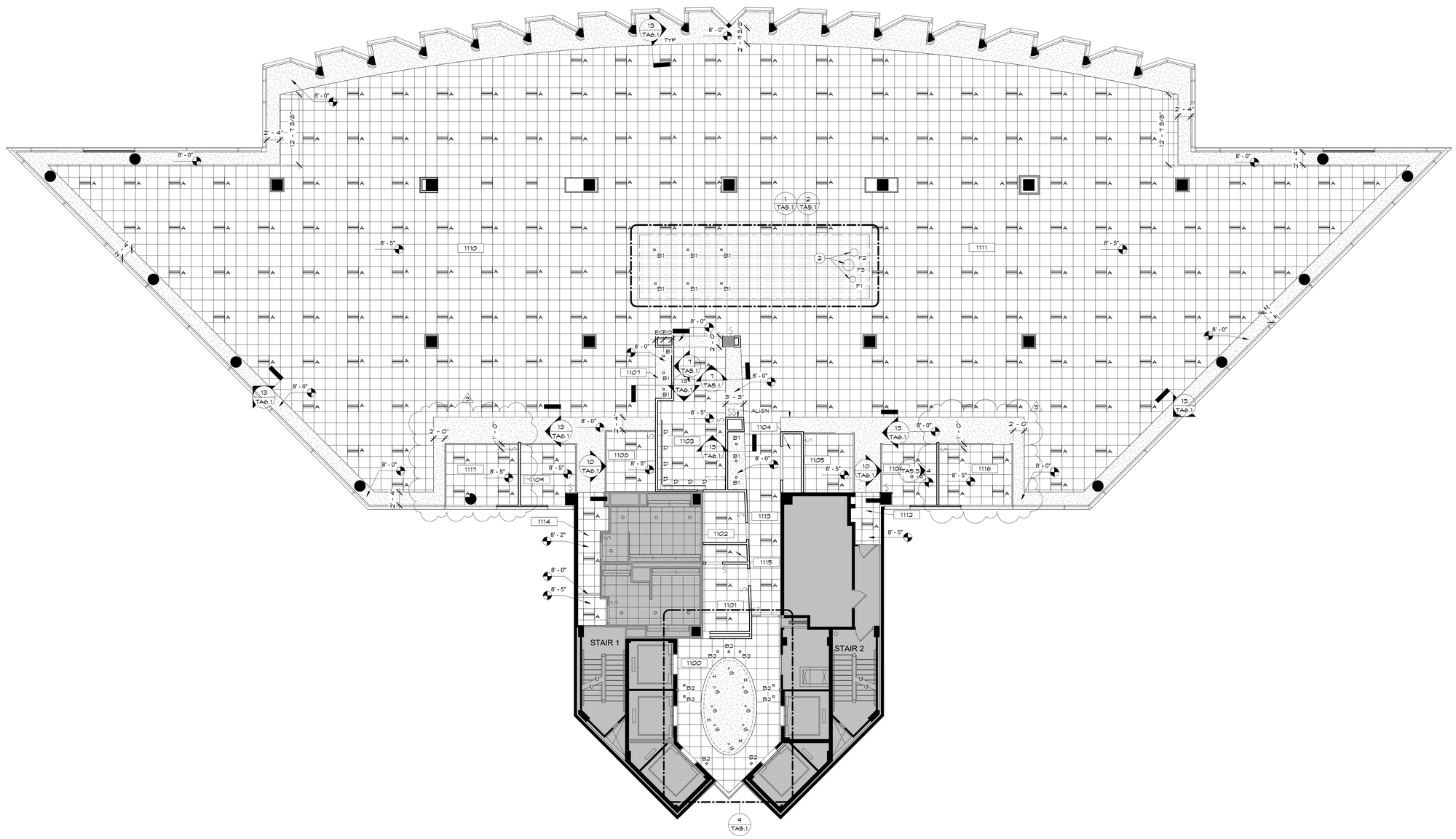
H — LED COVE LIGHT FIXTURE
MFR: OPTOLUM INC.
MODEL: NOOK - NK-120-H-35
LAMP: CRI 90+, 3500K

MOTION SENSOR LIGHT SWITCH MOUNTED @ 48" A.F.F.

EXIT LIGHT W/ BATTERY BACK-UP (QUANTITY & LOCATION SHALL BE DETERMINED IN ACCORDANCE WITH APPLICABLE CODES)

NEW DRYWALL CEILING/BULKHEAD, IP-1

WOOD SLAT CEILING BELOW NEW ACOUSTICAL CEILING GRID, REFER TO ENLARGED PLAN 1/TA5.1 FOR ADDITIONAL INFORMATION



1 11TH FLR REFLECTED CEILING
1/8" = 1'-0"

PLAN NORTH

MGMA
RUNNING ON DESIGN
Approved: 10/03/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
2	PERMIT REVISIONS #2	08.10.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH IV
Lic No. 0401021
ARCHITECT

JOB NUMBER 11096-014

11TH FLOOR REFLECTED CEILING PLAN

TA4.1-11

9/22/2017 6:54:51 AM

GENERAL FINISH NOTES

1	ALL PARTITIONS SHALL BE PAINTED IP-1, U.O.N.
2	BASE TO BE VNB-1 AT ALL IP-1 PARTITIONS, VNB-2 AT IP-2 PARTITIONS AND VNB-3 AT IP-3 PARTITIONS
3	CARPET IS A TILE PRODUCET, NON-ADHESIVE INSTALLATION APPLICATION; FREE LAY-IN WITH TACK STRIPS PROVIDED BY MANUFACTURER, ASHLAR INSTALL METHOD, TYPICAL
4	ALL DOOR FRAMES SHALL MATCH ADJACENT WALL COLOR, TYPICAL

FINISH NOTES

1	CONTRACTOR TO PAINT ALL EXPOSED SURFACES OF DRYWALL BULKHEAD IP-1
2	CONTRACTOR TO CONTACT INTERFACE FLOR FOR TEMPLATE FOR ELLIPTICAL CARPET PATTERN, IF REQUIRED
3	CONTRACTOR TO START CARPET INSTALL METHOD AT CENTERLINE OF DOOR
4	CONTRACTOR TO PROVIDE NEW MD-1 HANDRAIL AND BASE FOR ENTIRE GLASS RAILING SYSTEM, NEW HANDRAIL TO HAVE SAME PROFILE AS PREVIOUS, TYPICAL
5	EXISTING STAIR TREADS AND RISERS TO BE CPT-3, PROVIDE VNB-3 STAIR NOSING, TYPICAL

FINISH LEGEND

CPT-2
SEE FINISH SCHEDULE & LEGEND, TAB.1

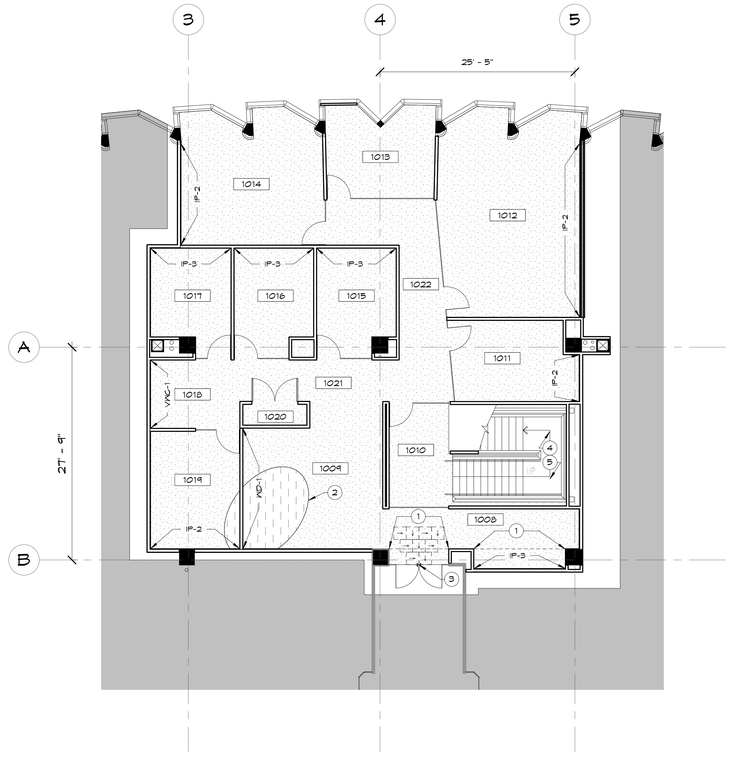
CPT-3
SEE FINISH SCHEDULE & LEGEND, TAB.1

EXISTING FINISH TO REMAIN

CONTRACTOR TO REFER TO THRESHOLD TYPES ON THIS SHEET

N.I.C. NOT IN CONTRACT

XX-X LOCATION OF SPECIAL FINISH OR ACCENT PAINT COLOR, SEE FINISH SCHEDULE & LEGEND, TAB.1



1 10TH FLOOR FINISH PLAN
1/8" = 1'-0"

PLAN NORTH

MGMA
RENOVATION
Approved: 10/18/2017
VIRGINIA 22046
WWW.MORGANGICK.COM
123 GREAT FALLS STREET FALLS CHURCH
703.538.7100 703.538.7112 FAX

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	PERMIT SET - 06.28.17	06.28.17
	OWNER REVIEW	06.27.17

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Reg. No. 011211
ARCHITECT

JOB NUMBER	11096-014

10TH FLOOR FINISH PLAN

TA4.2-10

6/27/2017 1:27:59 PM

GENERAL FINISH NOTES

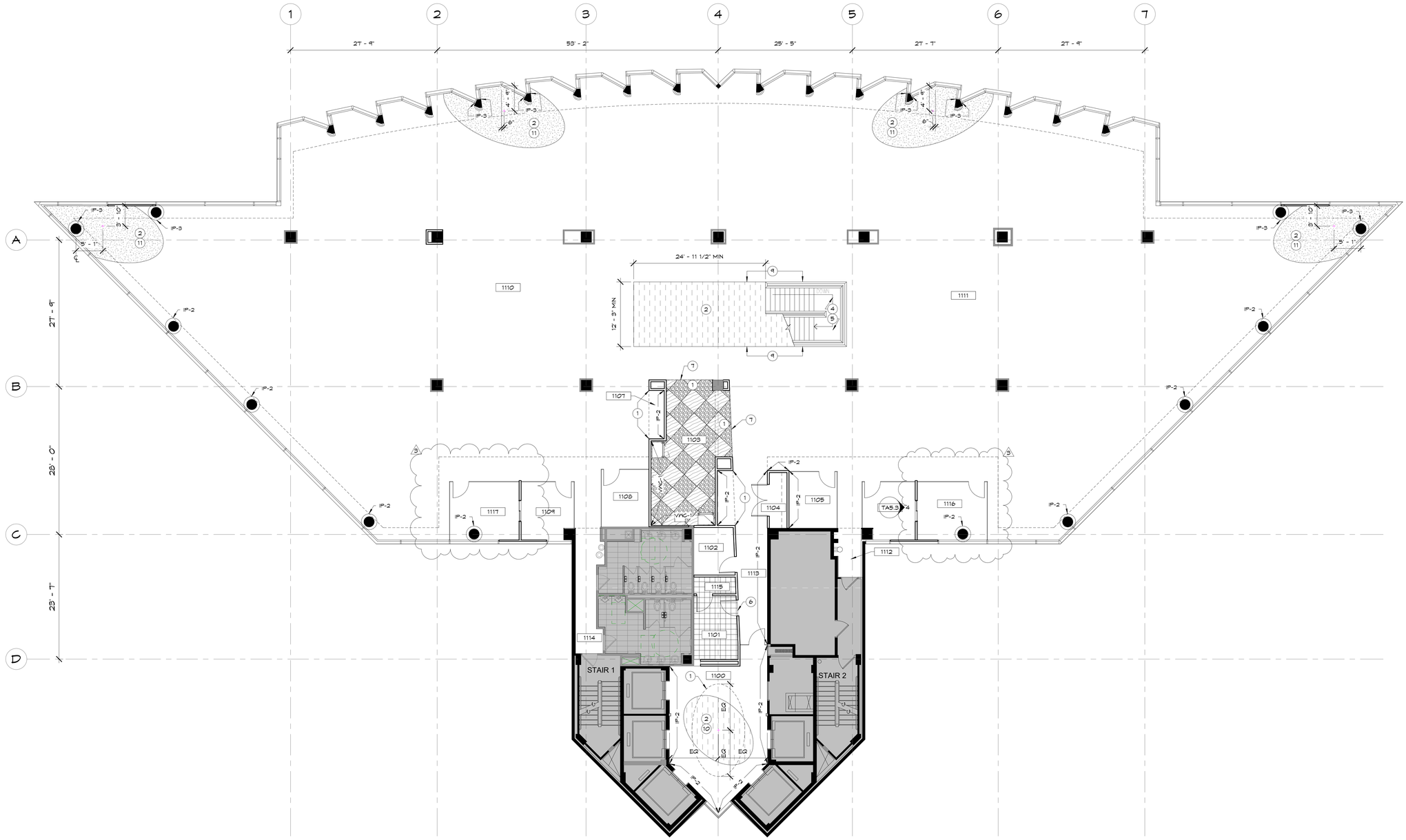
1	ALL PARTITIONS SHALL BE PAINTED IP-1, U.O.N.
2	BASE TO BE VNB-1 AT ALL IP-1 PARTITIONS, VNB-2 AT IP-2 PARTITIONS AND VNB-3 AT IP-3 PARTITIONS
3	CARPET IS A TILE PRODUCET, NON-ADHESIVE INSTALLATION APPLICATION; FREE LAY-IN WITH TACK STRIPS PROVIDED BY MANUFACTURER, ASHLAR INSTALL METHOD, TYPICAL
4	ALL DOOR FRAMES SHALL MATCH ADJACENT WALL COLOR, TYPICAL

FINISH NOTES

1	CONTRACTOR TO PAINT ALL EXPOSED SURFACES OF DRYWALL BULKHEAD IP-1
2	CONTRACTOR TO CONTACT INTERFACE FLOR FOR TEMPLATE FOR ELLIPTICAL CARPET PATTERN, IF REQUIRED
3	CONTRACTOR TO START CARPET INSTALL METHOD AT CENTERLINE OF DOOR
4	CONTRACTOR TO PROVIDE NEA KD-1 HANDRAIL AND BASE FOR ENTIRE GLASS RAILING SYSTEM, NEA HANDRAIL TO HAVE SAME PROFILE AS PREVIOUS, TYPICAL
5	EXISTING STAIR TREADS AND RISERS TO BE CPT-3, PROVIDE VNB-3 STAIR NOSING, TYPICAL
6	CONTRACTOR TO PROVIDE JOHNSONITE 55R-XX-B PROFILE REDUCER STRIP AT TRANSITION
7	CONTRACTOR TO PROVIDE ZINC TRANSITION STRIP BETWEEN LINOLEUM AND CARPET TILE
8	CONTRACTOR TO ALTERNATE LVT-1 AND LVT-2 FOR CHECKERBOARD PATTERN (100CM X 100CM)
9	CARPET EDGE TO BE ALIGNED WITH OUTSIDE FACE OF RAILING
10	ELLISPE IS 15'-6" X 10'-4" AND ROTATED AT 45 DEGREES, DIMENSIONS ARE TO CENTER POINT OF ELLISPE AND DRYWALL CEILING ABOVE
11	ELLISPE IS 24'-0" X 12'-0" AND ROTATED AT 20 DEGREES, DIMENSIONS ARE TO CENTER POINT OF ELLISPE

FINISH LEGEND

- CPT-1 — SEE FINISH SCHEDULE & LEGEND, TAB.1
- CPT-2 — SEE FINISH SCHEDULE & LEGEND, TAB.1
- CPT-3 — SEE FINISH SCHEDULE & LEGEND, TAB.1
- LVT-1 — SEE FINISH SCHEDULE & LEGEND, TAB.1
- LVT-2 — SEE FINISH SCHEDULE & LEGEND, TAB.1
- VCT-1 — SEE FINISH SCHEDULE & LEGEND, TAB.1
- CONTRACTOR TO REFER TO THRESHOLD TYPES ON THIS SHEET
- XX-X — LOCATION OF SPECIAL FINISH OR ACCENT PAINT COLOR, SEE FINISH SCHEDULE & LEGEND, TAB.1
- N.I.C. — NOT IN CONTRACT



1 11TH FLR FINISH PLAN
1/8" = 1'-0"

PLAN NORTH

MGMA
RECEIVED
2017 JUL 31 P 2:02
Approved: 10/19/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

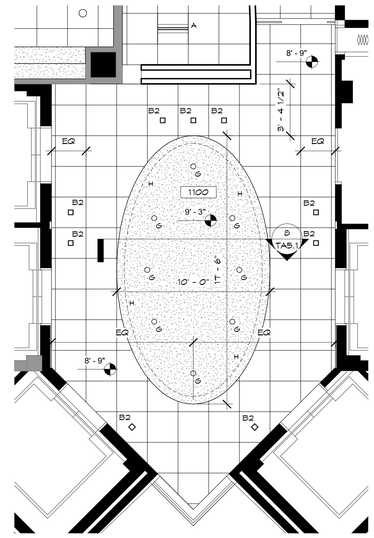
COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Lic. No. 011231
ARCHITECT

JOB NUMBER	11096-014

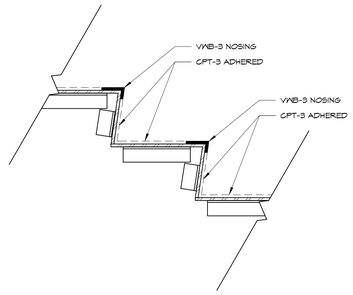
11TH FLOOR FINISH PLAN

TA4.2-11

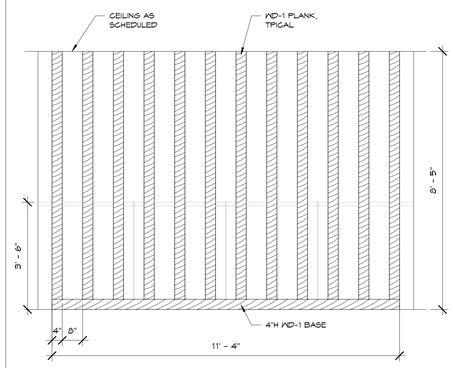
9/22/2017 6:54:53 AM



9 ENLARGED RCP @ LOBBY 1100
1/4" = 1'-0"



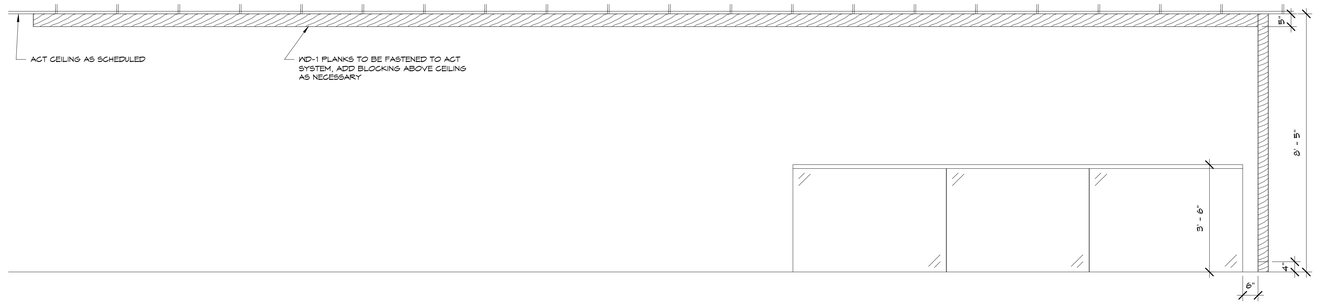
6 DETAIL @ STAIR TREAD, TYPICAL
NTS



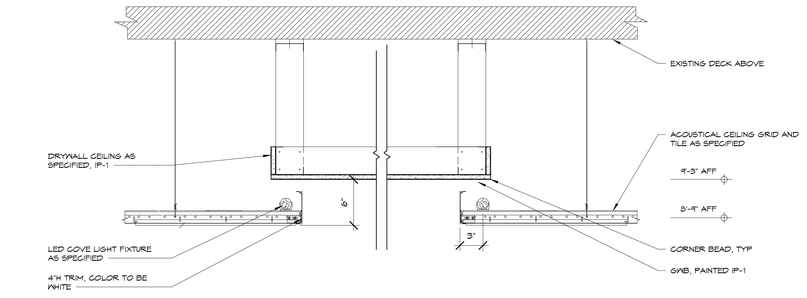
4 ELEVATION @ VERTICAL WOOD SLATS
1/2" = 1'-0"

ENLARGED PLAN NOTES

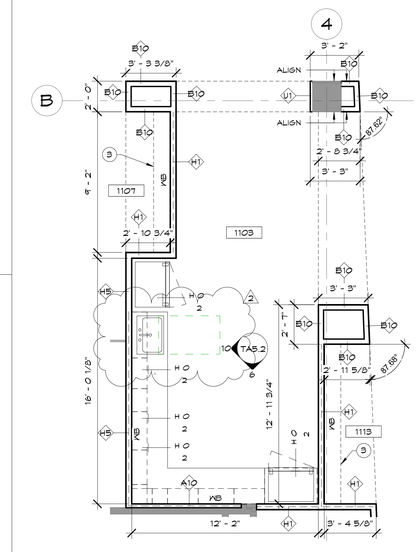
1	CONTRACTOR TO SECURE BASE TO SLAB ALONG ENTIRE FRAME
2	EQUAL SPACES ACROSS DIMENSION
3	PROVIDE TWO (2) 3/4"THK X 13"D ADJUSTABLE DURAFLAKE SHELVES ON HEAVY DUTY METAL STANDARDS AND BRACKETS, STANDARDS TO BE 36" O.C. MAXIMUM, SHELF FINISH TO BE WHITE MELAMINE, PROVIDE FIRE RETARDANT BLOCKING WALL AS REQUIRED, REFER TO SECTION 12/TA5.2 FOR ADDITIONAL INFORMATION



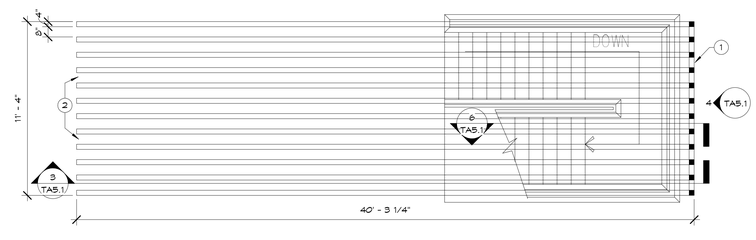
3 SECTION @ WOOD SLATS
1/2" = 1'-0"



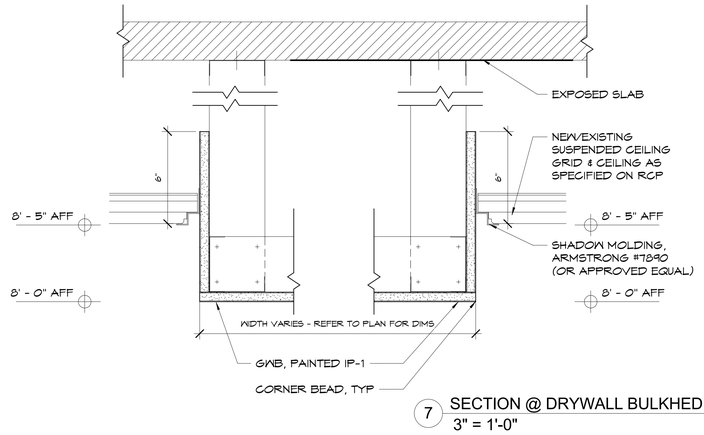
8 SECTION @ LOBBY CEILING & LIGHTING COVE
1 1/2" = 1'-0"



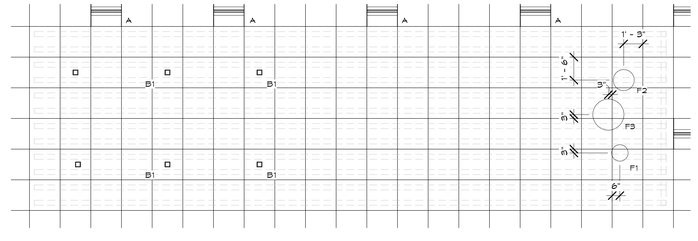
5 ENLARGED PLAN @ BREAK ROOM
1/4" = 1'-0"



2 ENLARGED PLAN @ WOOD SLAT CEILING
1/4" = 1'-0"



7 SECTION @ DRYWALL BULKHED
3" = 1'-0"



1 ENLARGED PLAN @ ACT & WOOD SLAT CEILING
1/4" = 1'-0"

MGMA
RENOVATION
Approved: 10/10/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
2	PERMIT REVISIONS #2	08.10.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB
SEALS	

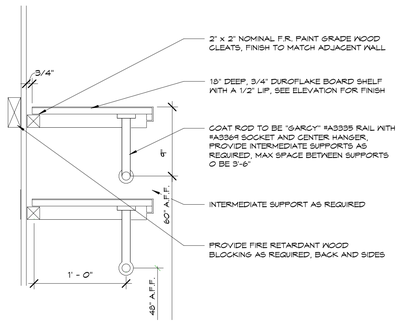
COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
ARCHITECT

JOB NUMBER	11096-014

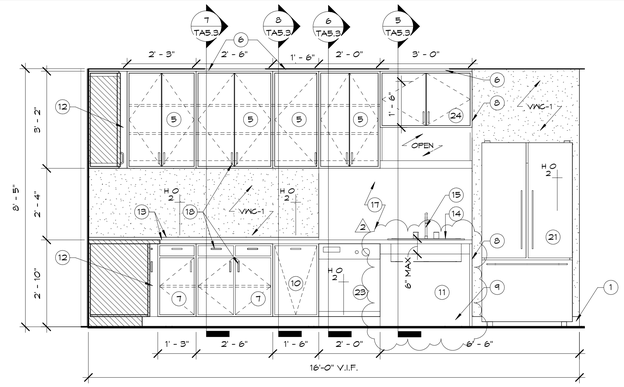
ENLARGED PLANS & DECORATIVE CEILINGS

TA5.1

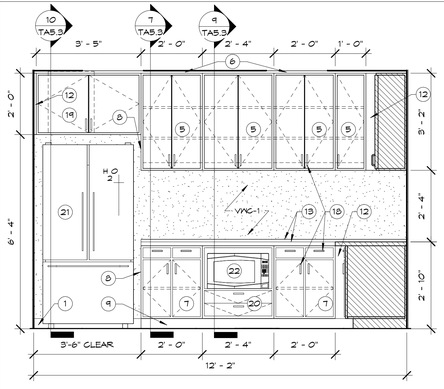
8/10/2017 6:11:25 PM



14 SECTION @ COAT ROD & SHELF
1 1/2" = 1'-0"

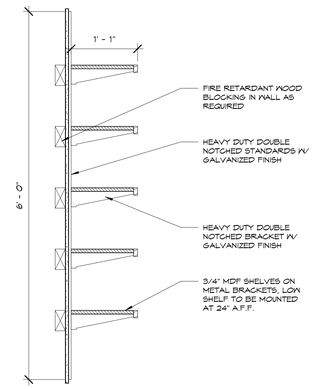


10 WEST ELEVATION @ BREAK RM #1103
1/2" = 1'-0"

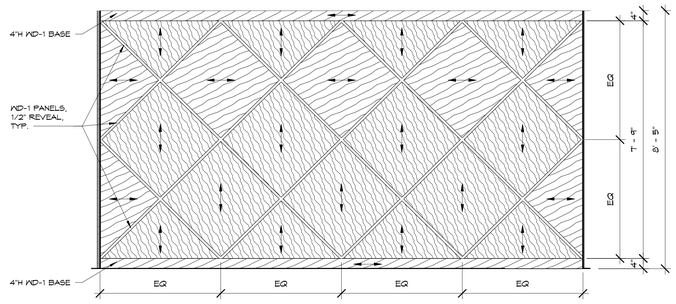


6 SOUTH ELEVATION @ BREAK RM #1103
1/2" = 1'-0"

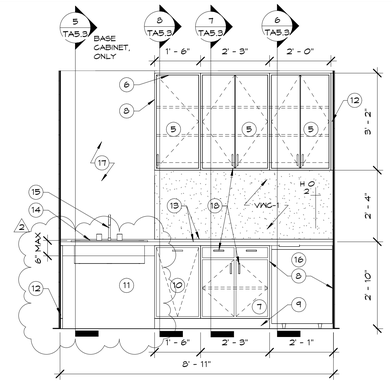
MILLWORK NOTES	
1	VINYL BASE AS SCHEDULED
2	DRYWALL BULKHEAD, PAINTED IP-1
3	WOOD VENEER COUNTER TOP, WD-1
4	WOOD VENEER SUPPORT PANEL, WD-1
5	1'H PLASTIC LAMINATE OVERHEAD CABINET WITH (2) ADJUSTABLE SHELFS AND LIGHT VALANCE, PL-1
6	PLASTIC LAMINATE VALANCE, PL-1
7	PLASTIC LAMINATE BASE CABINET WITH DRAWERS AND ADJUSTABLE SHELF, PL-1
8	PLASTIC LAMINATE FINISHED END PANEL, PL-1
9	PLASTIC LAMINATE TOEKICK, PL-1
10	PLASTIC LAMINATE BASE CABINET FOR TRASH, PL-1
11	PLASTIC LAMINATE SINK BASE CABINET WITHOUT DOORS, GC TO PROVIDE FINISHED INSIDE AND BACK PANELS, PL-1
12	PLASTIC LAMINATE FILLER PANEL, PL-1
13	PLASTIC LAMINATE 28"D COUNTER TOP WITH 1"H BACKSPLASH, PL-2
14	ADA COMPLIANT STAINLESS STEEL SINK, 25"W X 21"D
15	ADA COMPLIANT FAUCET AS MANUFACTURED BY KOHLER, STYLE: SIMPLICE, MODEL: #K-3971-CP
16	UNDER COUNTER REFRIGERATOR WITH GLASS DOOR AS MANUFACTURED BY U-LINE, MODEL: ADA24RGL, FINISH: STAINLESS STEEL
17	FULL HEIGHT PLASTIC LAMINATE BACKSPLASH, PL-2
18	DOOR/DRAWER PULLS TO BE HAFFELE, STYLE: LAGO DI COMO; FINISH: POLISHED CHROME; SIZE: 128MM CTC, TYPICAL
19	PLASTIC LAMINATE OVERHEAD CABINET FOR WATER HEATER, PL-1
20	PLASTIC LAMINATE BASE CABINET FOR MICROWAVE AND WITH (2) BOTTOM DRAWERS, PL-1
21	25 CU FT, STANDARD DEPTH FRENCH DOOR REFRIGERATOR WITH INTERIOR DISPENSE AS MANUFACTURED BY KITCHENAID, MODEL #KRFF305ESS, STAINLESS STEEL FINISH
22	COUNTER TOP MICROWAVE AS MANUFACTURED BY DACOR, MODEL TO BE "DISTINCTIVE" #DMW2430S, STAINLESS STEEL FINISH
23	ADA COMPLIANT BUILT-IN DISHWASHER WITH HIDDEN CONTROLS AS MANUFACTURED BY GE, MODEL #SLDT675BDSS, STAINLESS STEEL FINISH
24	PLASTIC LAMINATE OVERHEAD CABINET WITH (1) ADJUSTABLE SHELF AND (1) OPEN SHELF AND LIGHT VALANCE, PL-1
25	PLASTIC LAMINATE COUNTER TOP, PL-1
26	PLASTIC LAMINATE SUPPORT PANEL, PL-1



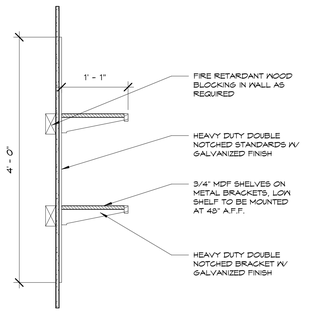
13 SECTION @ (5) ADJUSTABLE SHELVES
1" = 1'-0"



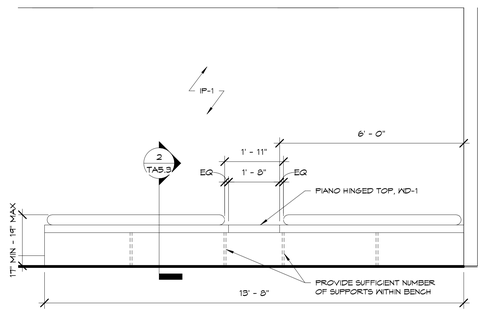
9 ELEVATION @ RECEPTION #1009
1/2" = 1'-0"



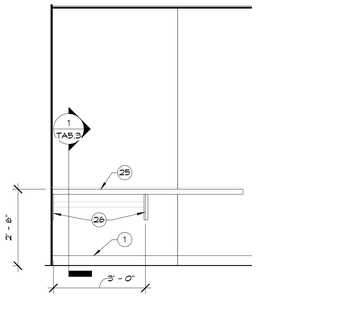
5 ELEVATION @ GALLEY #1018
1/2" = 1'-0"



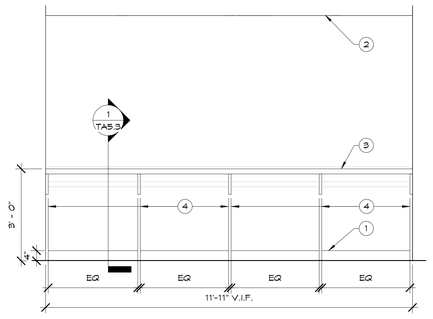
12 SECTION @ (2) ADJUSTABLE SHELVES
1" = 1'-0"



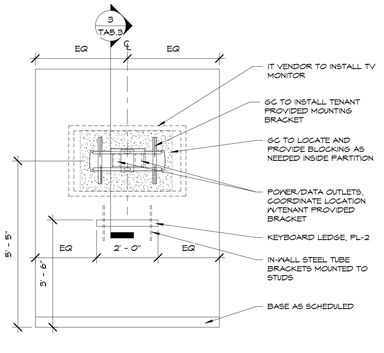
8 ELEVATION @ CONFERENCE #1014
1/2" = 1'-0"



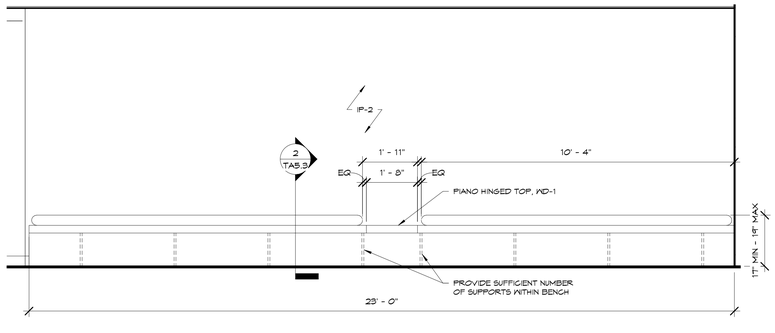
4 ELEVATION @ INTERVIEW #1013
1/2" = 1'-0"



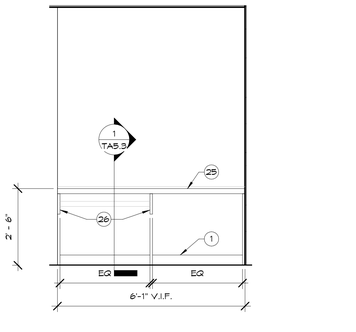
2 ELEVATION @ WORK AREA #1008
1/2" = 1'-0"



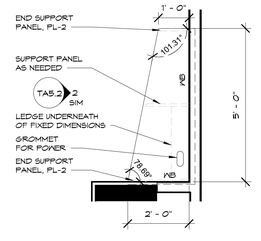
11 ELEVATION @ TV MONITOR
1/2" = 1'-0"



7 ELEVATION @ CONFERENCE #1012
1/2" = 1'-0"



3 ELEVATION @ INTERVIEW #1011
1/2" = 1'-0"



1 ENLARGED PLAN @ INTERVIEW COUNTER
1/2" = 1'-0"

MGMA
RESTON, VIRGINIA
Approved: 10/10/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.532.7100 703.532.7172 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
2	PERMIT REVISIONS #2	08.10.17
1	PERMIT REVISIONS	07.20.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB
SEALS	

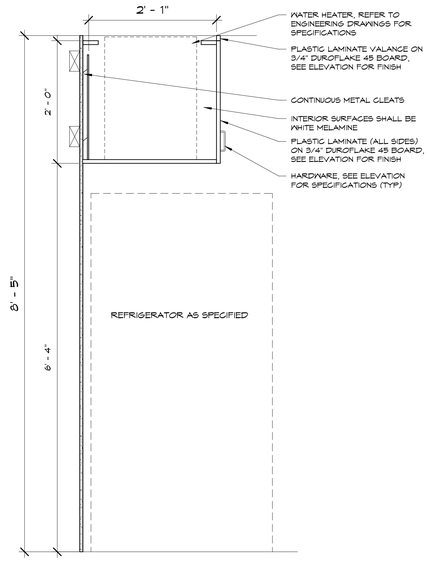
COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Lic. No. 011211
ARCHITECT

JOB NUMBER	11096-014

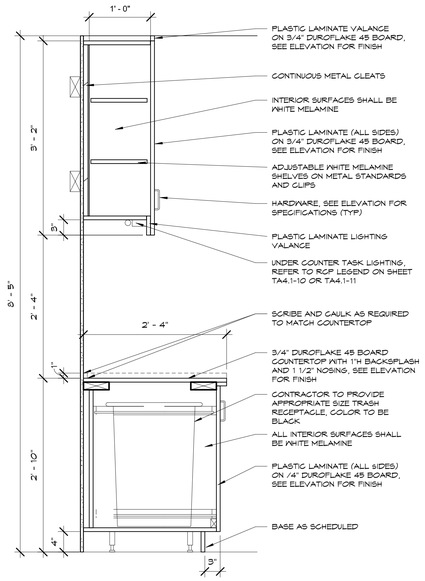
MILLWORK ELEVATIONS & SECTIONS

TA5.2

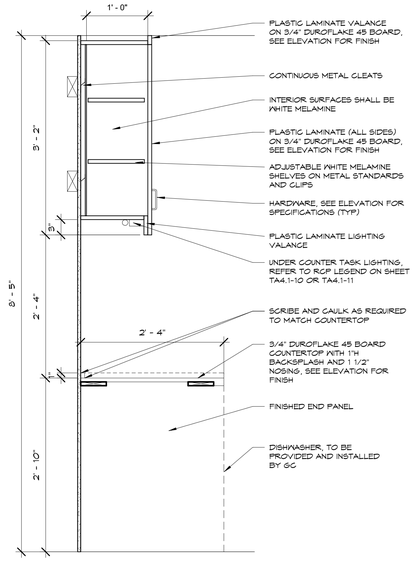
8/10/2017 5:50:44 PM



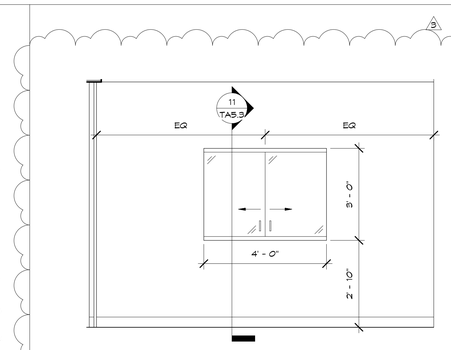
10 SECTION @ WATER HEATER OVERHD CABINET
1" = 1'-0"



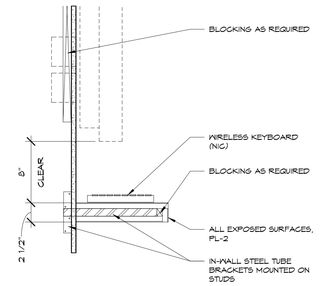
8 SECTION @ OVERHD & TRASH BASE CABINET
1" = 1'-0"



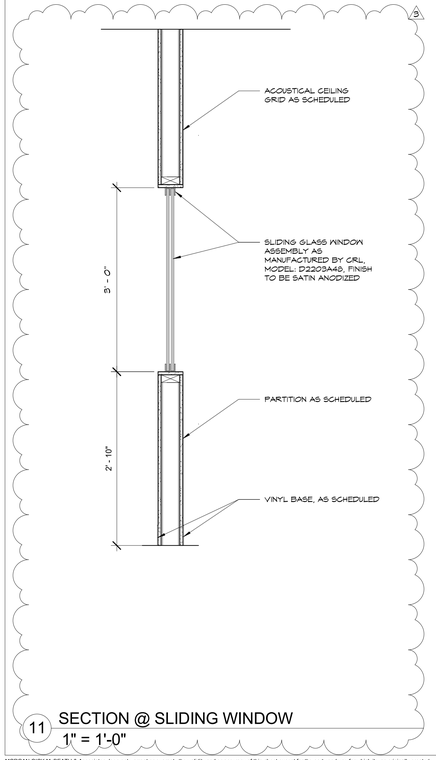
6 SECTION @ OVERHD & APPLIANCE BASE CABINET
1" = 1'-0"



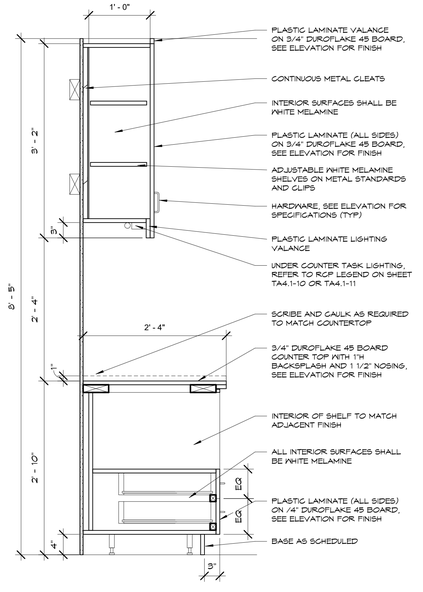
4 ELEVATION @ SLIDING WINDOW
1/2" = 1'-0"



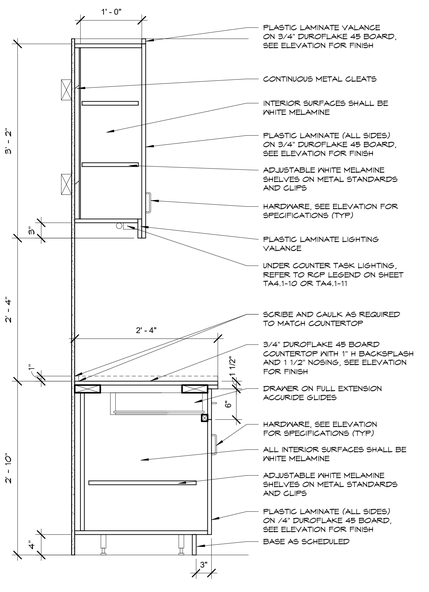
3 SECTION @ KEYBOARD LEDGE
1 1/2" = 1'-0"



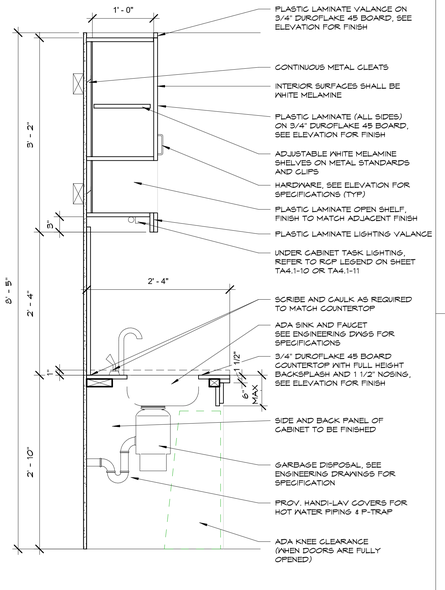
11 SECTION @ SLIDING WINDOW
1" = 1'-0"



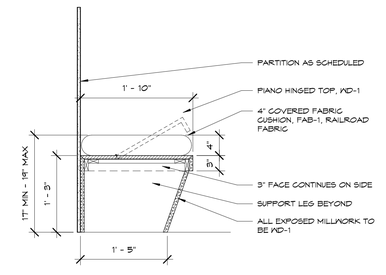
9 SECTION @ OVERHD & MICROWAVE BASE CABINET
1" = 1'-0"



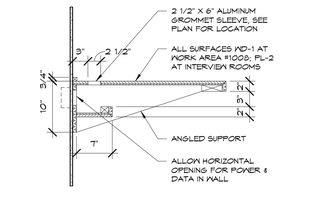
7 SECTION @ MILLWORK OVERHD & BASE CABINET
1" = 1'-0"



5 SECTION @ MILLWORK CABINET & SINK W/ GD
1" = 1'-0"



2 SECTION @ BENCH
1" = 1'-0"



1 SECTION @ COUNTER/LEDGE
1" = 1'-0"

MORGAN GICK
RUNNING IN DESIGN
Approved: 10/10/2017
MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7700 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
2	PERMIT REVISIONS #2	08.10.17
1	PERMIT REVISIONS	07.20.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
LICENSE NO. 019311
ARCHITECT

JOB NUMBER	11096-014

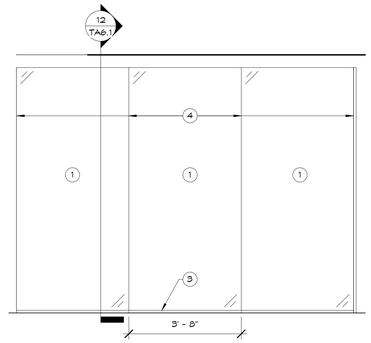
MILLWORK SECTIONS

TA5.3

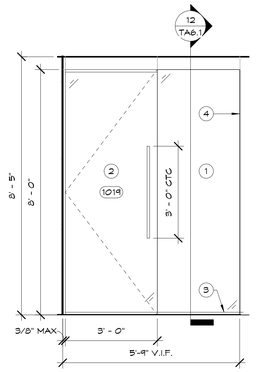
9/22/2017 6:54:54 AM

GLAZING NOTES

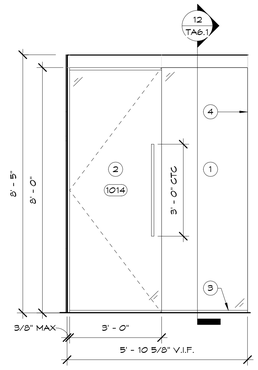
1	1/2" THK CLEAR TEMPERED GLASS PANEL, 1/8" MAX GAP
2	1/2" THK CLEAR TEMPERED GLASS DOOR WITH 1" TOP AND BOTTOM RAILS
3	1"H ALUMINUM CHANNEL, WITH GREY/SILVER COLORED GASKETS (NOT BLACK), TYPICAL
4	CONTRACTOR TO PROVIDE CLEAR SILICONE CAULK AT GLASS BUTT JOINTS, TYPICAL
5	VINYL BASE AS SCHEDULED
6	CONTINUOUS 18" BAND: ORACAL SERIES #3810 FROSTED GLASS CAST, #090 SILVER GRAY, INSIDE SURFACE
7	"GLOBAL" TEXT = 3/8" THICK LETTERS, ORACAL SERIES 8300 TRANSPARENT CAL - #078 DARK GRAY, INSIDE SURFACE
8	"INSIGHT" TEXT AND SPROSH = 3/8" THICK LETTERS, ORACAL SERIES 8300 TRANSPARENT CAL - #030 DARK RED, INSIDE SURFACE



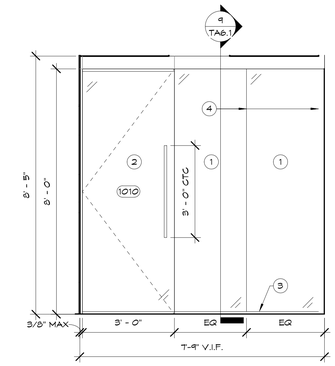
12 ELEVATION @ OFFICE #1106
1/2" = 1'-0"



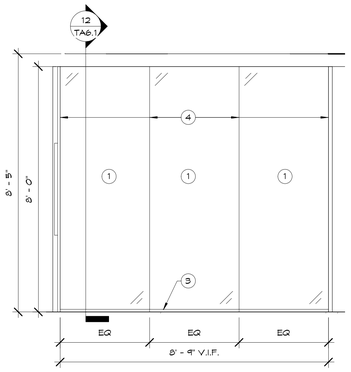
8 ELEVATION @ INTERVIEW #1019
1/2" = 1'-0"



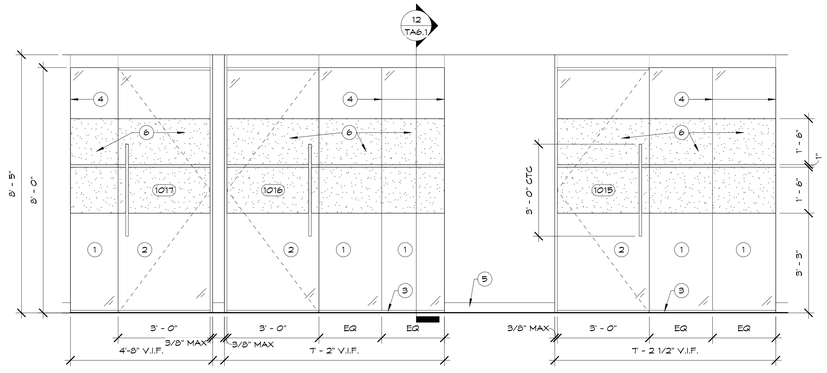
7 WEST ELEVATION @ CORRIDOR #1022
1/2" = 1'-0"



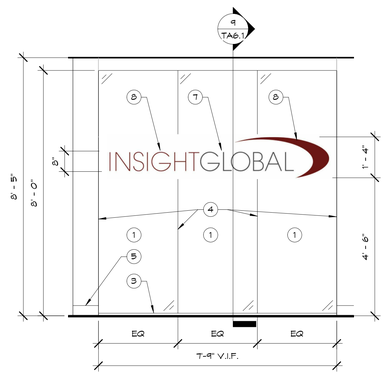
3 NORTH ELEVATION @ STAIR VESTIBULE #1010
1/2" = 1'-0"



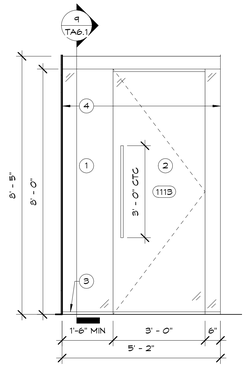
11 EAST ELEVATION @ CORRIDOR #1112
1/2" = 1'-0"



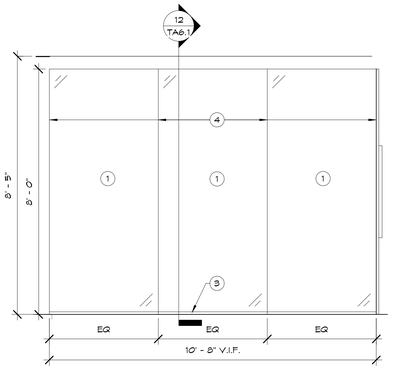
6 NORTH ELEVATION @ CORRIDOR #1021
1/2" = 1'-0"



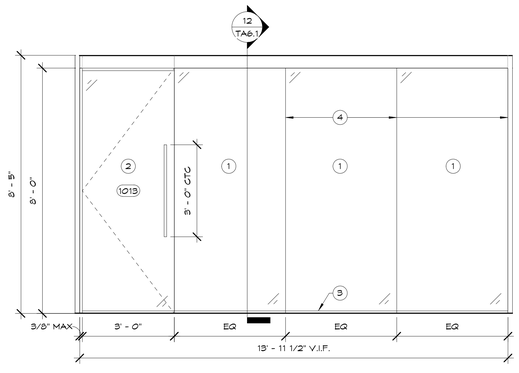
2 ELEVATION @ STAIR VESTIBULE #1010
1/2" = 1'-0"



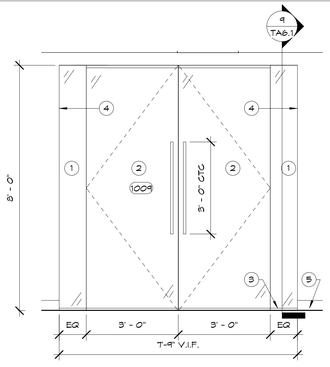
13 ELEVATION @ SUITE ENTRY DOOR #1113
1/2" = 1'-0"



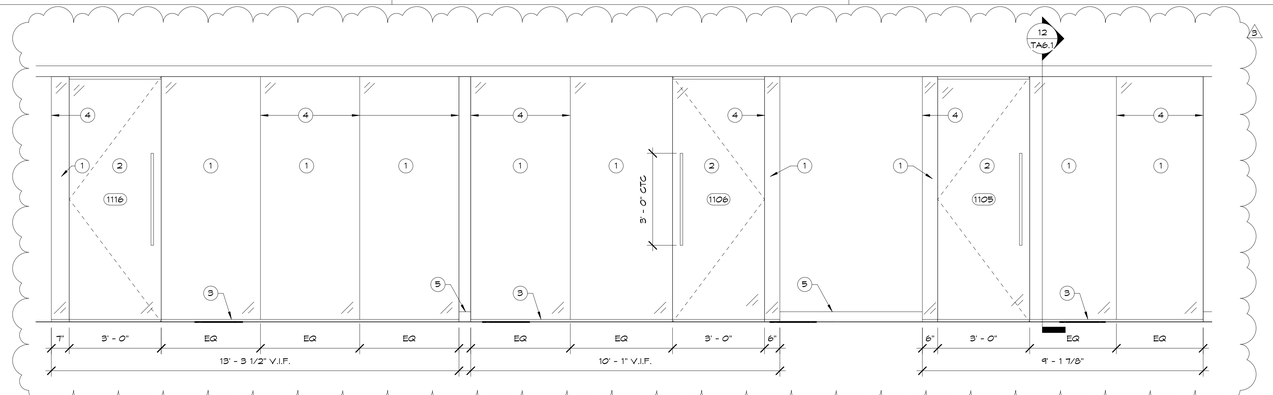
10 WEST ELEVATION @ CORRIDOR #1112
1/2" = 1'-0"



5 NORTH ELEVATION @ CORRIDOR #1022
1/2" = 1'-0"

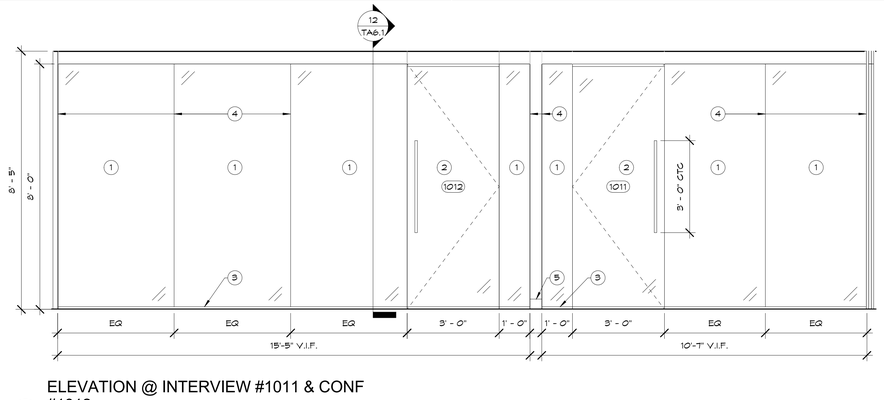


1 ELEVATION @ SUITE ENTRY DOORS #1009
1/2" = 1'-0"



VERIFY: Elevation @ Offices #1108, #1109 & #1117 similar?

9 ELEVATION @ OFFICES #1105 & #1106
1/2" = 1'-0"



4 ELEVATION @ INTERVIEW #1011 & CONF #1012
1/2" = 1'-0"

MGMA
RICHMOND
Approved: 10/17/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

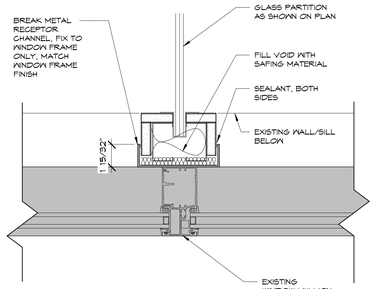
COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
LICENSED
ARCHITECT

JOB NUMBER 11096-014

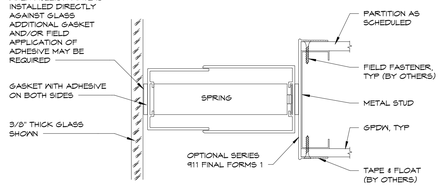
GLAZING ELEVATIONS & SECTIONS

TA5.4

9/22/2017 6:54:55 AM

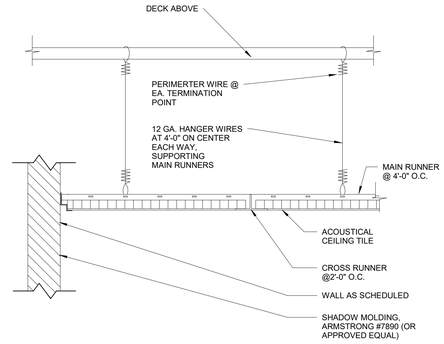


15 PARTITION @ EXISTING WINDOW MULLION
3" = 1'-0"

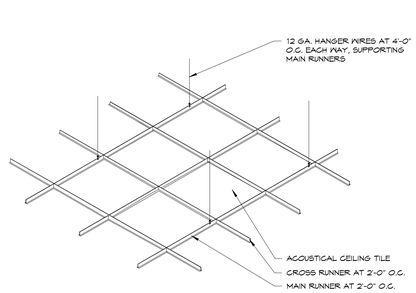


*MULLION MATE CAN BE INSTALLED AGAINST 1/8" THICK GLASS. INSTALL THE GASKET AGAINST THE GLASS SIDE FIRST, BEING CAREFUL TO ONLY LET THE GASKET COME IN CONTACT WITH THE GLASS DURING INSTALLATION.

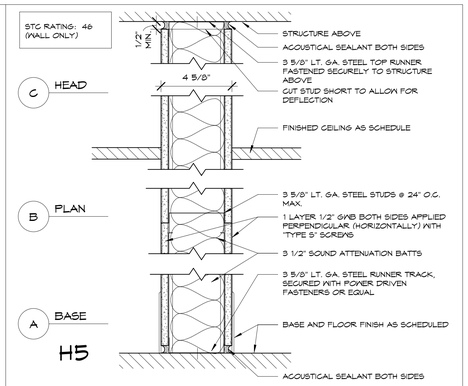
14 DETAIL @ DRYWALL PARTITION & GLASS WINDOW
6" = 1'-0"



11 SECTION @ ACOUSTICAL CEILING GRID
1 1/2" = 1'-0"



8 DETAIL @ ACOUSTICAL CEILING GRID
1/2" = 1'-0"



4 PARTITION DETAIL H5
3" = 1'-0"

PARTITION NOTES

1) ALL STUDS SHALL BE SPACED NO GREATER THAN 24 INCHES ON CENTER. TIGHTER SPACING SHALL BE PROVIDED BASED ON STUD LIMITS AND PROPOSED HEIGHT OR AS DETERMINED BY THE LIGHT GAGE ENGINEER.

2) MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE INSTALLED AT ALL WET LOCATIONS INCLUDING, WATER CLOSETS, SINKS, DRINKING FOUNTAINS, ETC., EXCEPT AS STATED IN NOTE 4.

3) MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE INSTALLED AT THE PERIMETER OF ALL WINDOWS FROM SILL TO FINISH FLOOR AND 2'-0" MINIMUM BEYOND THE HEAD AND JAMB.

4) CEMENT BACKER BOARD SHALL BE INSTALLED BEHIND ALL TILED WALLS AND IN HIGH HUMIDITY LOCATIONS SUCH AS SHOWERS, STEAMROOMS, ETC. STEEL STUDS WHERE CEMENT BOARD IS REQUIRED SHALL BE 20GA MIN. AND 16" O.C. MIN. USE ONLY COMPATIBLE FASTENERS AND ACCESSORIES WHERE CEMENT BOARD IS REQUIRED.

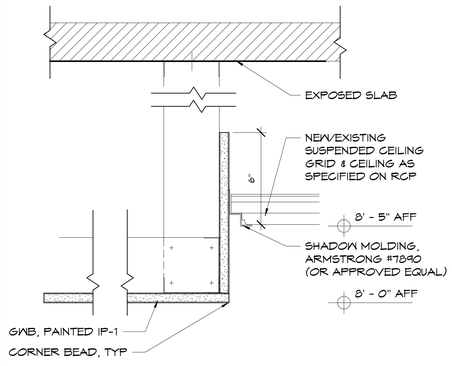
5) PROVIDE CONTROL JOINTS AT 30 FEET MAXIMUM ON CENTER IN ALL PARTITIONS. STUD FRAMING AND WALL BOARD SHOULD BE BROKEN AT ALL CONTROL JOINTS. JOINTS SHALL BE SPACED TO INTERSECT WITH, COLUMN LINES, DOORS, AND OTHER AREAS OF HIGH STRESS WHERE POSSIBLE. WHERE A CONTROL JOINT INTERSECTS A DOOR, TWO JOINTS SHALL BE PROVIDED AT EACH CORNER. THE ARCHITECT SHOULD BE NOTIFIED WHERE A JOINT CONFLICTS WITH AN ARCHITECTURAL REVEAL PATTERN.

6) RATED PARTITIONS, BARRIERS, WALLS ETC. TO BE CONSTRUCTED ACCORDING TO THE TESTED ASSEMBLY LISTED. SEE TESTING AGENCY DESIGN FOR MORE DETAILED REQUIREMENTS. ALL RATED ASSEMBLIES TO BE MARKED AS SUCH ABOVE CEILINGS AND ON THE INSIDE OF ALL RATED CEILING ACCESS DOORS. PROVIDE SIGNAGE WITH 1" HIGH MIN. LETTERING STATING TYPE OF ASSEMBLY AND RATING. PLACE SIGN AT 8 FEET ON CENTER, MAX.

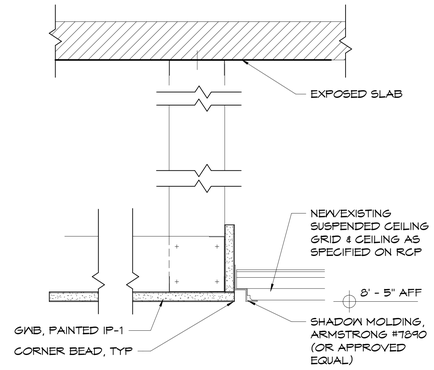
7) SOUND TRANSMISSION CLASS (STC) RATINGS SHOWN ARE APPROXIMATE VALUES FOR GENERAL REFERENCE ONLY. ACCOUSTICAL BATTS CONCEALED WITHIN WALLS TO HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450. PENETRATIONS IN WALLS CONTAINING ACCOUSTICAL BATTS TO BE THOROUGHLY SEALED INCLUDING BUT NOT LIMITED TO ALL OUTLET BOXES, DUCTS, PIPING ETC.

8) SEE STRUCTURAL DRAWINGS WHERE APPLICABLE FOR ADDITIONAL SUPPORT AND REINFORCING REQUIREMENTS FOR ALL CMU PARTITIONS.

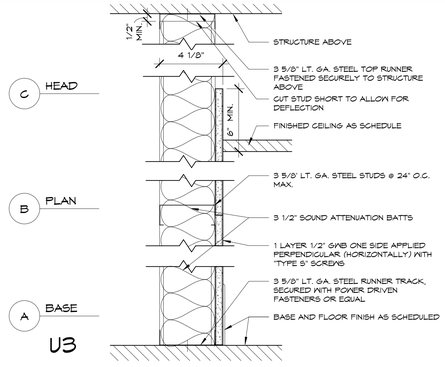
9) IN SOME CASES A 2 HOUR RATED TEST DESIGN IS USED FOR A 1 HOUR RATED WALL WHERE A LESSER RATED TEST IS NOT AVAILABLE. IN THIS CASE THE WALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TESTED ASSEMBLY BUT SHALL BE LISTED AS A 1 HOUR WALL. ALL PENETRATIONS, JOINTS, ETC. IN SUCH WALL SHALL BE TREATED AS IF IN A 1 HOUR WALL.



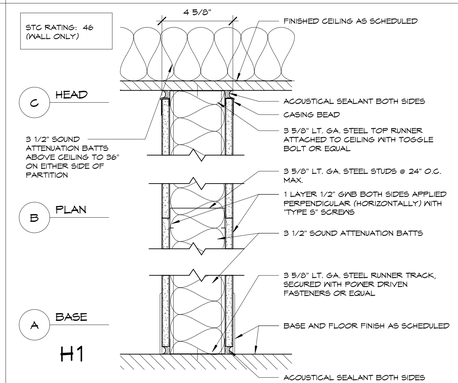
13 SECTION @ PERIMETER DRYWALL BULKHEAD
3" = 1'-0"



10 SECTION @ ACT/GYP BD CLG TRANSITION
3" = 1'-0"



7 PARTITION DETAIL U3
3" = 1'-0"



3 PARTITION DETAIL H1
3" = 1'-0"

PARTITION LIMITING HEIGHTS

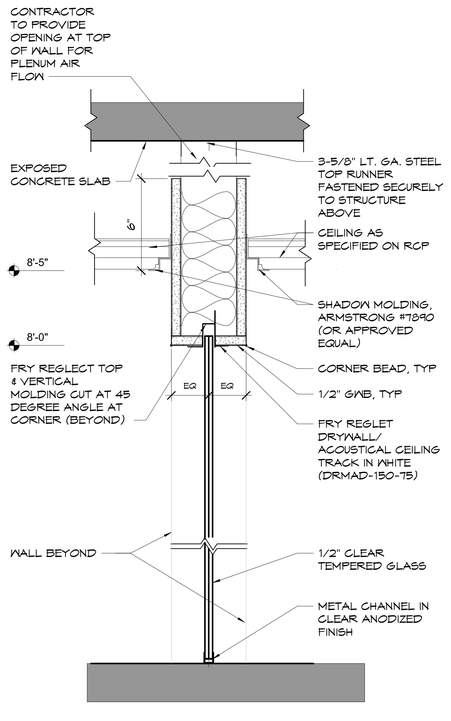
	DEPTH	WIND LOAD (lb/sq.ft.)	SPACING	5 PSF 12"	5 PSF 16"	5 PSF 24"	7.5 PSF 12"	7.5 PSF 16"	7.5 PSF 24"	10 PSF 12"	10 PSF 16"	10 PSF 24"
COMPOSITE	2 1/2	25 (18)	L/120	15'-1"	13'-3"	11'-10"	12'-4"	10'-10"	9'-8"	10'-4"	9'-5"	8'-5"
			L/240	11'-11"	11'-3"	10'-7"	10'-5"	9'-10"	9'-5"	9'-6"	8'-11"	8'-5"
			L/360	10'-5"	9'-10"	9'-3"	9'-1"	8'-7"	8'-1"	N/A	N/A	N/A
		22 (27)	L/120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20 (30)	L/120	16'-0"	15'-4"	13'-4"	14'-7"	13'-4"	11'-1"	13'-2"	12'-1"	10'-4"
			L/240	13'-2"	12'-1"	10'-4"	11'-6"	10'-6"	9'-4"	10'-5"	9'-6"	8'-6"
			L/360	11'-6"	10'-6"	9'-4"	10'-0"	9'-2"	8'-1"	9'-1"	8'-4"	7'-4"
	3 5/8	25 (18)	L/120	17'-5"	15'-4"	13'-4"	14'-3"	12'-5"	11'-0"	12'-5"	10'-8"	9'-5"
			L/240	15'-4"	14'-4"	13'-5"	13'-3"	12'-5"	11'-0"	12'-0"	10'-8"	9'-5"
			L/360	13'-3"	12'-4"	11'-7"	11'-7"	10'-10"	10'-1"	10'-5"	9'-8"	9'-1"
		22 (27)	L/120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20 (30)	L/120	21'-8"	18'-11"	17'-4"	18'-11"	17'-5"	15'-6"	17'-1"	15'-5"	14'-0"
			L/240	17'-1"	15'-5"	14'-0"	14'-10"	13'-7"	12'-0"	13'-5"	12'-3"	10'-10"
			L/360	14'-10"	13'-7"	12'-0"	12'-10"	11'-8"	10'-5"	11'-5"	10'-7"	9'-4"
	6	25 (18)	L/120	22'-4"	19'-4"	16'-4"	18'-7"	16'-2"	13'-5"	16'-2"	14'-0"	11'-5"
			L/240	22'-1"	19'-4"	16'-4"	18'-7"	16'-2"	13'-5"	16'-2"	14'-0"	11'-5"
			L/360	19'-4"	17'-11"	16'-4"	16'-4"	15'-7"	13'-5"	15'-0"	13'-10"	11'-5"
		22 (27)	L/120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		20 (30)	L/120	32'-1"	28'-2"	28'-1"	28'-0"	24'-4"	20'-6"	24'-7"	21'-5"	17'-4"
			L/240	25'-6"	23'-2"	20'-3"	22'-3"	20'-3"	17'-0"	20'-3"	18'-4"	16'-0"
			L/360	22'-3"	20'-3"	17'-5"	19'-5"	17'-8"	15'-5"	17'-6"	15'-10"	13'-5"
NON-COMPOSITE	DEPTH	WIND LOAD (lb/sq.ft.)	SPACING	5 PSF 12"	5 PSF 16"	5 PSF 24"	7.5 PSF 12"	7.5 PSF 16"	7.5 PSF 24"	10 PSF 12"	10 PSF 16"	10 PSF 24"
	2 1/2	25 (18)	L/120	13'-3"	12'-0"	10'-2"	11'-7"	10'-2"	8'-4"	10'-2"	8'-10"	7'-2"
			L/240	10'-6"	9'-6"	8'-4"	9'-2"	8'-4"	7'-3"	8'-4"	7'-7"	6'-7"
			L/360	9'-2"	8'-4"	7'-3"	8'-0"	7'-3"	6'-4"	7'-3"	6'-7"	5'-9"
		22 (27)	L/120	15'-6"	14'-1"	12'-4"	13'-7"	12'-4"	10'-4"	12'-4"	10'-11"	8'-11"
			L/240	12'-4"	11'-2"	9'-8"	10'-8"	9'-8"	8'-6"	9'-8"	8'-10"	7'-8"
			L/360	10'-8"	9'-8"	8'-6"	9'-5"	8'-6"	7'-5"	8'-6"	7'-8"	6'-8"
		20 (30)	L/120	18'-1"	14'-7"	12'-8"	14'-0"	12'-8"	11'-0"	12'-8"	11'-7"	9'-6"
			L/240	12'-8"	11'-7"	10'-1"	11'-1"	10'-1"	8'-10"	10'-1"	9'-2"	8'-0"
			L/360	11'-1"	10'-1"	8'-10"	9'-8"	8'-10"	7'-8"	8'-10"	8'-0"	7'-0"
	3 5/8	25 (18)	L/120	17'-3"	15'-1"	12'-4"	13'-10"	12'-1"	10'-1"	12'-4"	10'-9"	8'-8"
			L/240	13'-8"	12'-5"	10'-10"	11'-11"	10'-10"	9'-6"	10'-10"	9'-10"	8'-7"
			L/360	11'-11"	10'-10"	9'-6"	10'-5"	9'-6"	8'-3"	9'-6"	8'-7"	7'-6"
		22 (27)	L/120	20'-1"	18'-3"	15'-11"	17'-7"	15'-11"	13'-1"	15'-11"	13'-10"	11'-4"
			L/240	15'-11"	14'-6"	12'-0"	13'-11"	12'-5"	11'-0"	12'-5"	11'-6"	10'-0"
			L/360	13'-11"	12'-5"	11'-0"	12'-2"	11'-2"	9'-8"	11'-0"	10'-0"	8'-4"
		20 (30)	L/120	20'-9"	18'-11"	16'-8"	18'-2"	16'-8"	13'-11"	16'-8"	14'-8"	12'-1"
			L/240	16'-6"	15'-0"	13'-1"	14'-5"	13'-1"	11'-5"	13'-1"	11'-11"	10'-5"
			L/360	14'-5"	13'-1"	11'-5"	12'-7"	11'-5"	10'-0"	11'-5"	10'-5"	9'-1"
	6	25 (18)	L/120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			L/360	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		22 (27)	L/120	31'-4"	26'-4"	21'-11"	25'-4"	21'-11"	17'-11"	21'-11"	18'-0"	15'-6"
			L/240	24'-5"	22'-4"	19'-6"	21'-6"	19'-6"	17'-1"	19'-6"	17'-9"	15'-6"
			L/360	21'-6"	19'-6"	17'-1"	18'-9"	17'-1"	14'-11"	17'-1"	15'-6"	13'-6"
		20 (30)	L/120	32'-0"	29'-1"	24'-1"	27'-8"	24'-1"	19'-8"	24'-1"	20'-9"	17'-0"
			L/240	25'-5"	23'-1"	20'-2"	22'-2"	20'-2"	17'-7"	20'-2"	18'-4"	16'-0"
			L/360	22'-2"	20'-2"	17'-7"	19'-5"	17'-7"	15'-5"	17'-7"	16'-0"	14'-0"

NOTES:

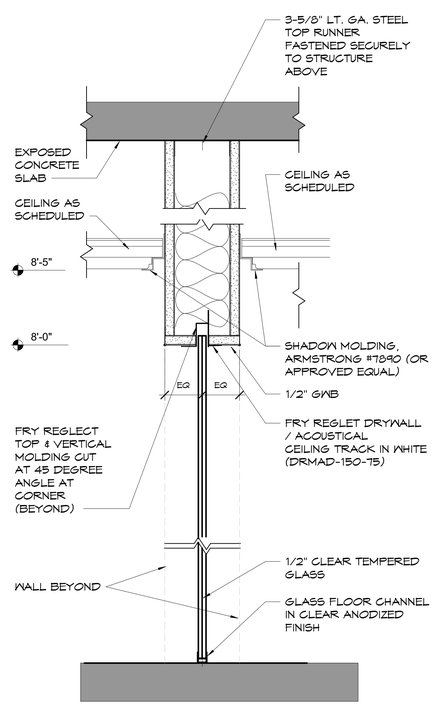
1) THIS TABLE IS PROVIDED AS A GENERAL GUIDELINE. ACTUAL LIMITING HEIGHTS FOR PROJECT SPECIFIC CONDITIONS SHOULD BE DETERMINED BY THE CONTRACTOR OR THE CONTRACTOR'S ENGINEER.

2) COMPOSITE LIMITING HEIGHTS ARE BASED ON THE CONTRIBUTION OF FULL HEIGHT 1/2" GWB ON BOTH SIDES OF STUDS.

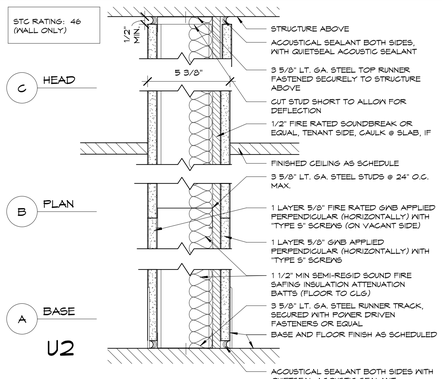
3) LIMITING HEIGHTS ARE BASED ON SIMPLY SUPPORTED SYSTEMS. APPLICATIONS SUPPORTING HANDRAILS, MILLWORK ETC. SHALL BE DETERMINED BY OTHER MEANS.



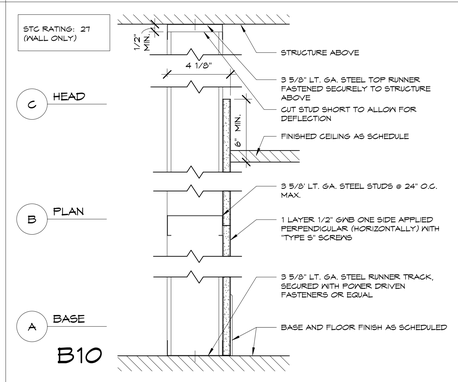
12 SECTION @ OFFICE GLASS PANELS
3" = 1'-0"



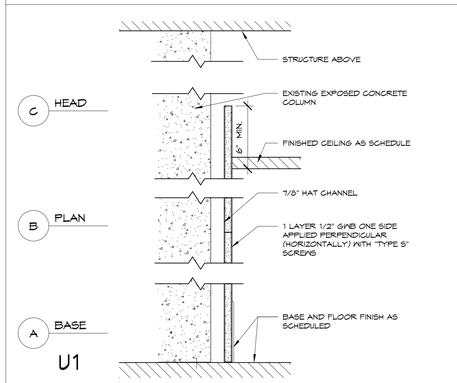
9 SECTION @ GLASS PANELS
3" = 1'-0"



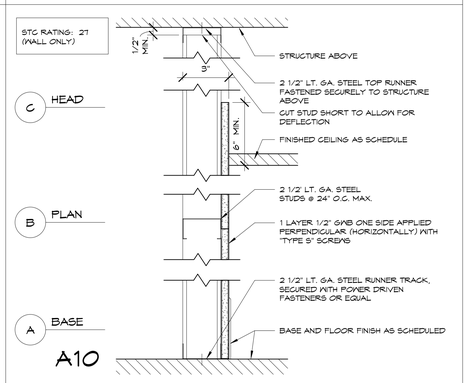
6 PARTITION DETAIL U2
3" = 1'-0"



2 PARTITION DETAIL B10
3" = 1'-0"



5 PARTITION DETAIL U1
3" = 1'-0"



1 PARTITION DETAIL A10
3" = 1'-0"

MCGM
MORGAN GICK McBEATH & ASSOCIATES
Approved: 10/5/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.532.7100 703.532.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM E. McBEATH
Lic. No. 012211
ARCHITECT

JOB NUMBER	11096-014

PARTITION TYPES

TA6.1

9/22/2017 6:54:55 AM

INTERIOR FINISH REQUIREMENTS (IBC 2012 803.9)

USE GROUP	EXIT ENCLOSURES & EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
A-1, A-2	B	B	C
A-3, A-4, A-5	B	B	C
B, E, M, R-1	B	C	C
R-4	B	C	C
F	C	C	C
H	B	B	C
I-1	B	C	C
I-2	B	B	B
I-3	A	A	C
I-4	B	B	B
R-2	C	C	C
R-3	C	C	C
S	C	C	C
U	NO RESTRICTIONS		

CLASSIFICATION:
- CLASS A: FLAME SPREAD 0-25
- CLASS B: FLAME SPREAD 26-75
- CLASS C: FLAME SPREAD 76-200

ROOM FINISH SCHEDULE

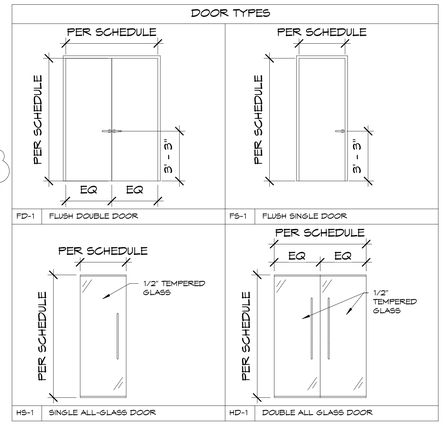
ROOM	ROOM NAME	FLOOR	BASE	WALL NORTH MATERIAL	WALL NORTH COLOR	WALL EAST MATERIAL	WALL EAST COLOR	WALL SOUTH MATERIAL	WALL SOUTH COLOR	WALL WEST MATERIAL	WALL WEST COLOR	CEILING MATERIAL	CEILING HEIGHT	REMARKS
1008	WORK AREA	CPT-2	VNB-1, VNB-3	GWB / GLASS	IP-1	-	-	GWB / GLASS	IP-1, IP-3	GWB	IP-1	ACT-1, GWB	VARIES	SEE NOTE #1
1009	RECEPTION	CPT-2, CPT-3	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	WD-1	ACT-1	8'-5"	SEE NOTES #1 & #2
1010	STAIR VESTIBULE	CPT-2, CPT-3	VNB-1	GWB / GLASS	IP-1	GWB	IP-1	GWB / GLASS	IP-1	-	IP-1	ACT-1	8'-5"	SEE NOTE #2
1011	OFFICE	CPT-2	VNB-1, VNB-2	GWB	IP-1	GWB	IP-1, IP-2	GWB	IP-1	GWB / GLASS	IP-1	ACT-1	8'-5"	
1012	CONFERENCE	CPT-2	VNB-1, VNB-2	GWB	IP-1	GWB	IP-1, IP-2	GWB	IP-1	GWB / GLASS	IP-1	ACT-1	8'-5"	
1013	OFFICE	CPT-2	VNB-1	GWB	IP-1	GWB	IP-1	GWB / GLASS	IP-1	GWB	IP-1	ACT-1	8'-5"	
1014	CONFERENCE	CPT-2	VNB-1, VNB-2	GWB	IP-1	GWB / GLASS	IP-1	GWB	IP-1	GWB	IP-1, IP-2	ACT-1	8'-5"	SEE NOTE #1
1015	OFFICE	CPT-2	VNB-1, VNB-3	GWB	IP-3	GWB	IP-1	GWB / GLASS	IP-1	GWB	IP-1	ACT-1	8'-5"	SEE NOTE #1
1016	OFFICE	CPT-2	VNB-1, VNB-3	GWB	IP-3	GWB	IP-1	GWB / GLASS	IP-1	GWB	IP-1	ACT-1	8'-5"	SEE NOTE #1
1017	OFFICE	CPT-2	VNB-1, VNB-3	GWB	IP-3	GWB	IP-1	GWB / GLASS	IP-1	GWB	IP-1	ACT-1	8'-5"	SEE NOTE #1
1018	GALLEY	CPT-2	VNB-1	GWB / GLASS	IP-1	GWB	IP-1	GWB / GLASS	IP-1	GWB	PL-2, VNC-1	ACT-1	8'-5"	SEE NOTE #3
1019	OFFICE	CPT-2, CPT-3	VNB-1, VNB-2	GWB / GLASS	IP-1	GWB	IP-1	GWB	IP-2	GWB	IP-1	ACT-1	8'-5"	SEE NOTES #1 & #2
1020	COATS	CPT-2	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	SEE NOTE #2
1021	CORRIDOR	CPT-2	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1022	CORRIDOR	CPT-2	VNB-1	GWB / GLASS	IP-1	GLASS	IP-1	GWB / GLASS	IP-1	GWB / GLASS	IP-1	ACT-1	8'-5"	
1100	LOBBY	CPT-1, CPT-2	VNB-1, VNB-2	GWB / GLASS	IP-1	GWB	IP-2	GWB	IP-2	GWB	IP-2	ACT-1, GWB	VARIES	SEE NOTES #1 & #2
1101	IT RM	VCT-1	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1102	MDM / STOR	CPT-1	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1103	BREAK RM	LVT-1, LVT-2	VNB-1	GWB	IP-1	GWB	IP-1	GWB	VNC-1	GWB	PL-2, VNC-1	ACT-1	8'-5"	SEE NOTE #3
1104	COATS	CPT-1	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1105	OFFICE	CPT-1	VNB-1	GLASS	IP-1	GLASS	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1106	OFFICE	CPT-1	VNB-1	GLASS	IP-1	GWB	IP-1	GWB	IP-1	GWB / GLASS	IP-1	ACT-1	8'-5"	
1107	COPY	CPT-1	VNB-1, VNB-2	GWB	IP-1	GWB	IP-2	GWB	IP-1	-	-	GWB	8'-0"	SEE NOTE #1
1108	OFFICE	CPT-1	VNB-1	GLASS	IP-1	GWB	IP-1	GWB	IP-1	GLASS	IP-1	ACT-1	8'-5"	
1109	OFFICE	CPT-1	VNB-1	GLASS	IP-1	GWB / GLASS	IP-1	GWB / GLASS	IP-1	GLASS	IP-1	ACT-1	8'-5"	
1110	OPEN AREA	CPT-1, CPT-2	VNB-1, VNB-2, VNB-3	GWB / GLASS	IP-1, IP-3	GWB / GLASS	IP-1	GWB / GLASS	IP-1, IP-2	GWB / GLASS	IP-1, IP-2, IP-3	ACT-1, GWB	VARIES	SEE NOTES #1 & #2
1111	OPEN AREA	CPT-1, CPT-2	VNB-1, VNB-2, VNB-3	GWB / GLASS	IP-1, IP-3	GWB / GLASS	IP-1, IP-2, IP-3	GWB / GLASS	IP-1, IP-2	GWB / GLASS	IP-1	ACT-1, GWB	VARIES	SEE NOTES #1 & #2
1112	CORR	CPT-1	VNB-1	-	-	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1113	CORR	CPT-1	VNB-1, VNB-2	-	-	GWB	IP-2	GLASS	IP-1	GWB	IP-1	ACT-1, GWB	VARIES	SEE NOTE #1
1114	CORR	CPT-1	VNB-1	-	-	GWB / GLASS	IP-1	GWB	IP-1	GWB / GLASS	IP-1	ACT-1	VARIES	
1115	ELECT	VCT-1	VNB-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	GWB	IP-1	ACT-1	8'-5"	
1116	OFFICE	CPT-1	VNB-1	GLASS	IP-1	GLASS	IP-1	GWB / GLASS	IP-1, IP-2	GWB	IP-1	ACT-1	8'-5"	SEE NOTE #1
1117	OFFICE	CPT-1	VNB-1	GLASS	IP-1	GWB	IP-1	GWB / GLASS	IP-1, IP-2	GLASS	IP-1	ACT-1	8'-5"	SEE NOTE #1

NOTES:
1. CONTRACTOR TO REFER TO FINISH PLANS ON SHEETS TA4.2-10 AND TA4.2-11 FOR EXACT LOCATION OF ACCENT PAINT COLORS.
2. CONTRACTOR TO REFER TO FINISH PLANS ON SHEETS TA4.2-10 AND TA4.2-11 FOR LOCATION OF ACCENT CARPET DESIGNS.
3. CONTRACTOR TO REFER TO MILLWORK ELEVATIONS ON SHEET TA5.2 FOR LOCATION OF ACCENT WALL MATERIALS.

DOOR SCHEDULE

DOOR	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE	HDWR	COMMENTS
1009	RECEPTION	6' - 0"	8' - 0"	HD-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		905	
1010	STAIR VESTIBULE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		904	
1011	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1012	CONFERENCE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1013	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1014	CONFERENCE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1015	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1016	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1017	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1018	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1020	CORRIDOR	6' - 0"	8' - 0"	FD-1	SCND	WD-1	HM	IP-1	3C/TA5.1	3B/TA5.1	3A/TA5.1		903	
1101	IT RM	3' - 0"	8' - 0"	FS-1	SCND	WD-1	HM	IP-1	3C/TA5.1	3B/TA5.1	3A/TA5.1		901	
1102	MDM / STOR	3' - 0"	8' - 0"	FS-1	SCND	WD-1	HM	IP-1	3C/TA5.1	3B/TA5.1	3A/TA5.1		900	
1104	CORR	6' - 0"	8' - 0"	FD-1	SCND	WD-1	HM	IP-2	3C/TA5.1	3B/TA5.1	3A/TA5.1		903	
1105	OPEN AREA	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1106	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1108	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1109	OPEN AREA	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1115	LOBBY	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		904	
1115	ELECT	3' - 0"	8' - 0"	FS-1	SCND	WD-1	HM	IP-1	3C/TA5.1	3B/TA5.1	3A/TA5.1		903	
1116	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	
1117	OFFICE	3' - 0"	8' - 0"	HS-1	GLASS	-	-	-	2C/TA5.1	2B/TA5.1	2A/TA5.1		906	

DOOR TYPES



FD-1	FLUSH DOUBLE DOOR	FS-1	FLUSH SINGLE DOOR
HS-1	SINGLE ALL-GLASS DOOR	HD-1	DOUBLE ALL GLASS DOOR

HARDWARE SCHEDULE

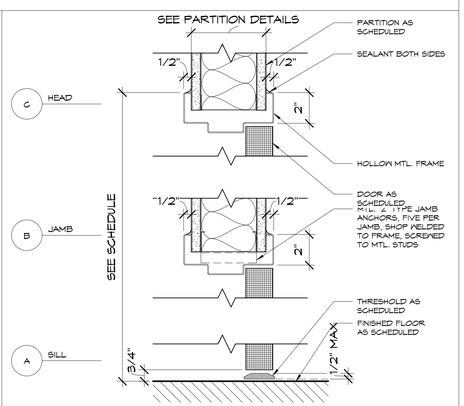
#	ITEM	QTY	MANUFACTURER	MODEL NO.	FINISH	REMARKS
900	HINGES	4	MCKINNEY	TA2314	US32D	
	LEVER LOCKSET	1	SCHLAGE	ATHENS ND40S	626	PRIVACY (ANSI F76)
	CLOSER	1	LCN	4040T	ALUMINUM	
	FLOOR STOP	1	HAGAR	241 F	US26D	
	SILENCERS	3	HAGAR	307D	GREY	
901	HINGES	4	MCKINNEY	TA2314	US32D	
	LEVER LOCKSET	1	SCHLAGE	ATHENS ND80RD	626	STOREROOM (ANSI F86)
	ELECTRIC STRIKE	1	LOCKNETICS	4110	626	FAIL SECURE
	CLOSER	1	LCN	4040T	ALUMINUM	
	FLOOR STOP	1	HAGAR	241 F	US26D	
	SILENCERS	3	HAGAR	307D	GREY	
902	HINGES	4	MCKINNEY	TA2314	US32D	
	LEVER LOCKSET	1	SCHLAGE	ATHENS ND80RD	626	STOREROOM (ANSI F86)
	CLOSER	1	LCN	4040T-3038HB	ALUMINUM	WITH HOLD OPEN
	FLOOR STOP	1	HAGAR	241 F	US26D	
	SILENCERS	3	HAGAR	307D	GREY	
903	HINGES	8	MCKINNEY	TA2314	US32D	
	LEVER	4	SCHLAGE	ATHENS ND170	626	DUMMY TRIM
	ROLLER LATCH	2	HAGAR	318D	US26D	HEAD MTD
	FLOOR STOP	2	HAGAR	241 F	US26D	
904	TOP RAIL	1	CR LAWRENCE	9P25PS12G	-	POLISHED STAINLESS
	BOTTOM RAIL	1	CR LAWRENCE	9P25PS12G	-	POLISHED STAINLESS
	CONCEALED CLOSER	1	DORMA	RTS88	-	
	PUSH PULLS	2	ROCKWOOD	RM3301	US32D	BACK TO BACK
	MAG LOCK	1	LOCKNETICS	6FT300DSC-HD	-	FAIL SAFE
	EXIT PACKAGE	1	SECURITRON	XM1N	-	
905	TOP RAIL	2	CR LAWRENCE	9P25PS12G	-	POLISHED STAINLESS
	BOTTOM RAIL	2	CR LAWRENCE	9P25PS12G	-	POLISHED STAINLESS
	STOP PATCH	1	DORMA	PT-70	SS 700	
	CONCEALED CLOSER	2	DORMA	RTS88	-	
	PUSH PULLS	4	ROCKWOOD	RM3301	US32D	BACK TO BACK
	MAG LOCK	2	LOCKNETICS	6FT300DBRD	-	FAIL SAFE
	EXIT PACKAGE	1	SECURITRON	XM1N	-	
906	TOP RAIL	1	CR LAWRENCE	9P25PS12G	-	POLISHED STAINLESS
	BOTTOM RAIL	1	CR LAWRENCE	9P25PS12G	-	POLISHED STAINLESS
	STOP PATCH	1	DORMA	PT-80	SS 700	
	CONCEALED CLOSER	1	DORMA	RTS88	-	WITH HOLD OPEN
	PUSH PULLS	2	ROCKWOOD	RM3301	US32D	BACK TO BACK

NOTES:
1. DOOR HARDWARE IS TO BE ADA ACCESSIBLE.
2. INTERIOR PUSH BAR CONTAINS ELECTRONIC SWITCH WHIGH WHEN PUSHED RELEASES MAGANETC LOCK.
3. IBC SECTION **1008.1.9.9 ELECTROMAGNETICALLY LOCKED EGRESS DOORS.** DOORS IN THE *MEANS OF EGRESS* IN BUILDINGS WITH AN OCCUPANCY IN GROUP A, B, E, M, R-1 OR R-2, AND DOORS TO TENANT SPACES IN GROUP A, B, E, M, R-1 OR R-2, SHALL BE PERMITTED TO BE ELECTROMAGNETICALLY LOCKED IF EQUIPPED WITH LISTED HARDWARE THAT INCORPORATES A BUILT-IN SWITCH AND MEET THE REQUIREMENTS BELOW:
   1. THE LISTED HARDWARE THAT IS AFFIXED TO THE DOOR LEAF HAS AN OBVIOUS METHOD OF OPERATION THAT IS READILY OPERATED UNDER ALL LIGHTING CONDITIONS.
   2. THE LISTED HARDWARE IS CAPABLE OF BEING OPERATED WITH ONE HAND.
   3. OPERATION OF THE LISTED HARDWARE DIRECTLY INTERRUPTS THE POWER TO THE ELECTROMAGNETIC LOCK AND UNLOCKS THE DOOR IMMEDIATELY.
   4. LOSS OF POWER TO THE LISTED HARDWARE AUTOMATICALLY UNLOCKS THE DOOR.
   5. WHERE PANIC OR *FIRE EXIT HARDWARE* IS REQUIRED BY SECTION 1008.1.10, OPERATION OF THE LISTED PANIC OR *FIRE EXIT HARDWARE* ALSO RELEASES THE ELECTROMAGNETIC LOCK.
4. PROVIDE 4 HINGES FOR ALL DOOR LEAFS OVER 7'-0" HIGH AND WIDER THAN 3'-0".
5. WHERE APPLICABLE, PROVIDE A POLISHED CHROME FINISH FOR ALL DOOR HARDWARE.

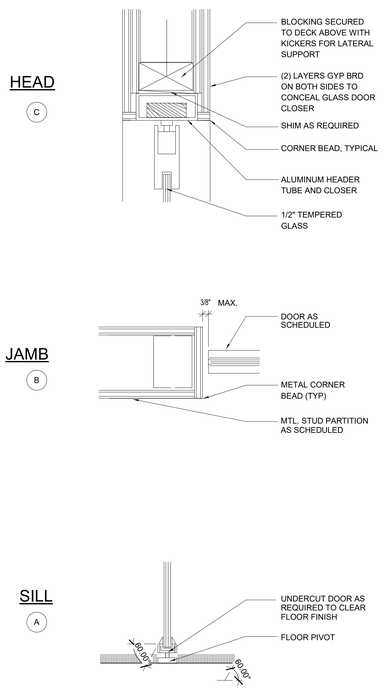
FINISH SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	STYLE	NUMBER	COLOR	REMARKS
FAB-1	FABRIC	MAHARAM	EXCHANGE	466027-011	PUNCH	BENCH SEATING
PL-1	PLASTIC LAMINATE	WILSONART	TEXTURED GLOSS	4860K-07	SILVER ALCHEMY	BASE & OVERHEAD CABINETS
PL-2	PLASTIC LAMINATE	FORMICA	COLOR CORE, MATTE	-	NEW WHITE	COUNTER TOP & BACKSPLASH
VNC-1	VINYL WALLGOVERING	KOROSEAL	ANDROMEDA	AM121-10	MILKY WAY	54" WIDE
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	OPTIMA	3251	WHITE	SILHOUETTE GRID, 9/16" WITH 1/8" REVEAL
LVT-1	LUXURY VINYL TILE	INTERFACE	NATURAL STONES	2103009-2871174	WHITE TRAVERTINE	50CM X 50CM
LVT-2	LUXURY VINYL TILE	INTERFACE	TEXTURED STONED, LEVEL SET	A00302	COOL POLISHED CEMENT	50CM X 50CM
VCT-1	ARMSTRONG	MICRATIONS BBT W/BIOSTRIDE	-	T3505	-	12" X 12", QUARTER TURN INSTALL METHOD
VNB-1	VINYL WALL BASE	ROPPE	4"H COVE/STRAIGHT	170	WHITE	STRAIGHT @ CPT & COVE @ VCT/LVT
VNB-2	VINYL WALL BASE	ROPPE	4"H COVE/STRAIGHT	175	SLATE	STRAIGHT @ CPT & COVE @ VCT/LVT
VNB-3	VINYL WALL BASE	ROPPE	4"H COVE/STRAIGHT	P186	RED	STRAIGHT @ CPT & COVE @ VCT/LVT
CPT-1	CARPET TILE	INTERFACE FLOR	THE STANDARD	1467302500-4557	VELLUM	ASHLAR INSTALL METHOD, SEE NOTE #1
CPT-2	CARPET TILE	INTERFACE FLOR	TO SCALE	1465202500-7775	DRAWINGS	ASHLAR INSTALL METHOD, SEE NOTE #1
CPT-3	CARPET TILE	INTERFACE FLOR	SYNCOPATION	1240202500-6480	FLAME	ASHLAR INSTALL METHOD, SEE NOTE #1
IP-1	INTERIOR PAINT	BENJAMIN MOORE	EGGSHELL	OC-25	CLOUD COVER	GENERAL WALL COLOR
IP-2	INTERIOR PAINT	BENJAMIN MOORE	EGGSHELL	AC-26	OZARK SHADOWS	ACCENT WALL COLOR
IP-3	INTERIOR PAINT	BENJAMIN MOORE	EGGSHELL	2081-10	BURNT PEANUT RED	ACCENT WALL COLOR
WD-1	WOOD VENEER	-	QUARTERED FIGURED ASH		CLEAR FINISH	ACCENT WALL @ 10TH FLR RECEPTION

NOTES:
1. CONTRACTOR TO CONTACT INTERFACE FLOR REPRESENTATIVE JEFF MITNITSKY @ (404) 784-7757 OR JEFF.MITNITSKY@INTERFACE.COM.

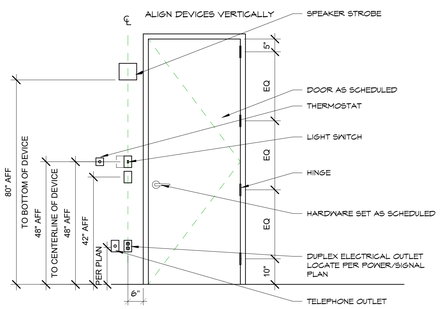


3 TYPICAL INTERIOR DOOR HEAD-JAMB-SILL
3" = 1'-0"



2 SECTION @ GLASS DOOR HEAD/JAMB/SILL
3" = 1'-0"

NOTE: LOCATE ELECTRICAL AND TELEPHONE WALL OUTLETS AT NEAREST STUD FROM SCALED LOCATION ON PLAN, U.N.O.



1 8'-0" DEVICE MOUNTING HEIGHTS
1/2" = 1'-0"

MGMA
RICHMOND
Approved: 10/19/2017
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.532.7700 703.532.7112 FAX WWW.MORGANGICK.COM

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE #2	09.21.17
	CONSTRUCTION SET	09.07.17
2	PERMIT REVISIONS #2	08.10.17
1	PERMIT REVISIONS	07.20.17
	BID SET	07.21.17
	PERMIT SET	06.28.17
	OWNER REVIEW	06.27.17
NO.	DESCRIPTION	DATE

PRINCIPAL	WHM
SR. PROJ. ARCH.	ASB
PROJ. ARCH.	ASB

SEALS

COMMONWEALTH OF VIRGINIA
WILLIAM H. McBEATH
Lic. No. 012211
ARCHITECT

JOB NUMBER	11096-014

DOOR DETAILS & SCHEDULES

TA8.1

9/22/2017 6:54:55 AM

ARLINGTON VIRGINIA

Arlington County, Virginia
Department of Community Planning, Housing and Development
Inspection Services Division

ACCESSIBILITY COMPLIANCE FORM APPLIES TO ALTERATIONS AND ADDITIONS EXCEPT ONE & TWO FAMILY DWELLING

ARLINGTON VIRGINIA

Approved: 10/27/2017

Arlington County, Va./Applications/ISD/AH/01-001/09-08

A. Customer's Information

Important: Applicant to complete all non-shaded areas and mark or circle where applicable.

Important: Occupancy is contingent upon an accurate assessment of the space and compliance with the requirements of the 2012 Virginia Construction Code (VCC), the 2012 Virginia Rehabilitation Code (VRC), and the 2009 ICC/ANSI A117.

"Arlington County ISD Inspectors will determine FINAL compliance acceptance."

Project Name	INSIGHT GLOBAL		
Project address	Number and Street: 1001 19th STREET N	Suite: 10th & 11th FLOORS	On site phone number if available:

B. Level of Compliance:

Note that the level of compliance fields is intended for the Owner or the Designer to fill. Failure to comply with this requirement would result in the delay of the review process. Please read CAREFULLY and check the box that applies.

☒ **1.** The accessible route, from the accessible parking to the altered space, including the restrooms and drinking fountains serving that space, is in full compliance with the accessibility requirements of the VCC.

If this box (1) is checked, sufficient details must be included or attached to the set to show the compliance.

☐ **2.** Alteration is not to a primary function area.

☐ **3.** Improvements to the accessible route will provide full compliance with the accessibility requirements of the VCC and will include upgrading of the following items:

_____

_____

_____

☐ **4.** The cost of providing a fully compliant route exceeds 20% of the cost of the proposed alterations; including mechanical, electrical and plumbing costs (see VRC sections 410.6 and 410.7). Accordingly compliance will only be provided up to the 20% limit and will include upgrading the following items: (the accessible route includes any restrooms and drinking fountains that serve the primary function area.)

Estimated cost of Alterations: $ | Estimated cost of improving accessibility: $

_____

_____

_____

_____

Certification

I hereby certify as the Designer/ Owner of the above mentioned project, that I have the authority to make the foregoing application, that the application is correct, and that the construction documents and the accessible route will conform to the Current adopted Virginia Uniform Statewide Building Code.

Name (print)	Specify identity	Signature	Date
WILLIAM H McBEATH	ARCHITECT		06/29/17

ARLINGTON
VIRGINIA

DEPARTMENT of COMMUNITY PLANNING, HOUSING and DEVELOPMENT
Inspection Services Division

2100 Clarendon Blvd., Suite 800, Arlington, VA. 22201
Tel 703-228-3800 Fax 703-228-7046 www.arlingtonva.us

ARLINGTON
VIRGINIA

Approved: 10/27/2017

ASBESTOS INSPECTION AND AWARENESS FORM

Effective July 1, 1993, the Virginia Uniform Statewide Building Code requires that all buildings to be renovated or demolished shall be inspected for the presence of asbestos-containing materials, and subject to exemptions, appropriate response actions shall be undertaken. The following form is to be completed by all applicants for Building Permits for renovation or demolition. A completed form will contain one box checked below and must be signed by the owner or authorized agent of the owner(s).

Owner(s): BFP POTOMAC TOWER CO. LLC

Address: 1001 19th ST NORTH SUITE 700 ARLINGTON, VA 22209

Address where work is to be performed: 1001 19th ST NORTH
ARLINGTON, VA 22209

Certification

AS AN OWNER, OR AN OWNER'S AGENT, OF THE ABOVE BUILDING, I HEREBY CERTIFY THAT:

☐ The above building is a single family dwelling, or is a residential housing building containing four or fewer units, and is exempt from asbestos inspection requirements. (NOTE: This exemption does not apply if the proposed renovation or demolition is for commercial or public development purposes); or

☐ The combined amount of regulated asbestos-containing material involved in the renovation or demolition is less than 260 linear feet on pipes, or less than 160 square feet on other facility components, or less than thirty-five cubic feet off facility components where length or area could not be measured previously, and is exempt from asbestos inspection requirements.

☒ This building is exempt from asbestos certification requirements because the original building permit was issued after January 1, 1985.

If NONE of the boxes above has been checked, and if the building permit application is for repair or replacement of roofing, floorcovering, or siding materials and the use is not a school, asbestos inspection requirements may be satisfied by checking one of the two following boxes:

☐ The materials to be repaired or replaced are assumed to contain asbestos and that appropriate response actions will be accomplished by a licensed asbestos contractor or a licensed RFS contractor; or

☐ An inspection of the materials to be removed was accomplished by an RFS inspector and analysis of the sample showed no asbestos to be present.

ARLINGTON
VIRGINIA

Approved: 10/27/2017

IF NONE OF THE FIVE (5) BOXES ON THE FRONT PAGE HAVE BEEN CHECKED, ONE OF THE REMAINING TWO BOXES HEREUNDER MUST BE CHECKED IN ORDER TO COMPLETE THIS FORM:

☐ The affected area of the above building to be renovated or demolished has been inspected for the presence of asbestos by an individual licensed to perform such inspections and that no asbestos-containing materials were found; or

☐ Asbestos-containing materials in the affected area of the above building to be renovated or demolished will be subject to appropriate response actions in accordance with all applicable laws relating to asbestos abatement.

In accordance with S36-99.7, I further certify that the abatement area will not be reoccupied until any required response actions have been completed and final clearances have been measured and found to be within regulated tolerances.

Printed Name: NICOLE WARE

Telephone number(s): 202.467.7724

Signature of Owner or Owner's Agent: Nicole L Ware

Date: 6/28/2017

ARLINGTON
VIRGINIA

Approved: 10/27/2017

July 24, 2017

Plans Review Division
Arlington County
2100 Clarendon Boulevard
Arlington, Virginia 22201

Re: Insight Global
Revisions to Permit
Permit Number: B1701636

Dear Mr. Rice-Johnston and Mr. Martin:

The following is a written response to the Architectural review comments dated July 19, 2017:

1. *"A1.1 Project Notes - 18 July 2017 Means of Egress: Please also reflect that half the occupant load from the 10th floor suite will be using the exit access stairway to exit through the 11th floor suite. VCC 1014.2."*

Response: TA3.2-10, half the occupants have been noted as exiting through the stairwell to the 11th floor.

2. *"A1.1 Project Notes - 18 July 2017: Please update the applicable edition of the International Fire Code."*

Response: A1.1 Project Notes, the International Fire Code year has been updated.

3. *"A3-0-11 11 Floor Egress Plan - 18 July 2017: Please note that the maximum diagonal (diameter of smallest circumscribed circle around the space being considered) is somewhat longer than the diagonal shown on the drawing. VCC 1015.2.1."*

Response: TA3.0-11, the diagonal for the floor has been revised to the furthest points.

4. *"A3-3-10 10th Floor Power Signal Plan – 18 July 2017: The sink in Pantry [1018] is not accessible as shown. See sheet A5-3, Detail 5. 2009 ANSI A117.1 606.2; 305.3; 306 – Provide a forward approach. The space underneath the sink shall provide knee and toe clearances. Forward approach requires the removal of the cupboard doors under the sink – As an alternate, a parallel approach may be provided, with the prescribed clear space centered on the sink."*

Response: TA5.3, Detail #5: the ADA knee clearance has been shown for the pantry sinks for the 10th and 11th floors. When the doors are fully open, a wheelchaired person will be able to use a forward approach to reach the sink.

5. *"A3-3-11 11th Floor Power Signal Plan – 18 July 2017: The sink in Pantry [1018] is not accessible as shown. See sheet A5-3, Detail 5. 2009 ANSI A117.1 606.2; 305.3; 306 – Provide*

a forward approach. The space underneath the sink shall provide knee and toe clearances. Forward approach requires the removal of the cupboard doors under the sink – As an alternate, a parallel approach may be provided, with the prescribed clear space centered on the sink. Please ensure the refrigerator will not project beyond the front of the counter."

Response: TA5.3, Detail #5: the ADA knee clearance has been shown for the pantry sinks for the 10th and 11th floors. When the doors are fully open, a wheelchaired person will be able to use a forward approach to reach the sink.

6. *"A5-3 Millwork Sections – 18 July 2017: Detail 2, Section @ Bench; The height of the seating surface shall be between 17" and 19" above the floor. 2009 ANSI A117.1 903."*

Response: TA5.2, elevations #7 & #8 and TA5.3, detail #2: the height of the bench has been revised so the top of the bench is 17" Min to 19" Max.

7. *"A8-1 Door Details & Schedules – 18 July 2017: Please add the door which leads from the Elevator Lobby [1100] on the 11th floor into the Door Schedule. Show how emergency egress will be provided to both stairways at all times; do not simply indicate "this condition to be shown on the security vendor's permit submittal." VCC 1021.2."*

Response: The Lobby door from the elevator area to the tenant suite is labeled 1113 and is included in the Door Schedule. The name of the door has been revised from CORR to LOBBY. The door is controlled by a mag lock and when the building falls into alarm, the door will be released and fall into FAIL SAFE mode. Any person within the Lobby will be able to gain access to the stairwells.

8. *"Review Date: 7/10/17 Sheet A5-3: Detail 5 shows ADA doors installed in the sink base. I forward approach is to achieved on the 10th floor knee and toes clearance complying with ANSI section 306 shall be provided. The doors shall be removed. A parallel approach complying with section 305 centered on the sink is permitted. ANSI 606.2 exception #1."*

Response: *"A3-3-10 10th Floor Power Signal Plan – 18 July 2017: The sink in Pantry [1018] is not accessible as shown. See sheet A5-3, Detail 5. 2009 ANSI A117.1 606.2; 305.3; 306 – Provide a forward approach. The space underneath the sink shall provide knee and toe clearances. Forward approach requires the removal of the cupboard doors under the sink – As an alternate, a parallel approach may be provided, with the prescribed clear space centered on the sink."*

If any additional information is necessary on any of these issues please let us know.

Thank you.

Anne Brown

Anne Brown
MORGAN GICK MCBEATH & ASSOCIATES, PC

ELECTRICAL GENERAL NOTES

1. SCOPE

   A. THE WORK TO BE DONE SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENTS AND SERVICES REQUIRED TO CONSTRUCT, INSTALL AND MODIFY COMPLETE AND OPERATIVE, THE ELECTRICAL SYSTEMS AS HEREIN SPECIFIED AND AS SHOWN ON THESE DRAWINGS. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING ELECTRICAL WORK AND PROVIDE AND INSTALL ALL NECESSARY ANCHORS, SLEEVES, HANGERS, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES.

2. GENERAL CONDITIONS

   A. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
   B. DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND OUTLETS, LOCATIONS OF SWITCHES, PANELBOARDS, CONDUIT AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AT NO EXTRA COST.
   C. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS TO FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THOSE DESIGNS AFFECTING HIS WORK. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER TRADES.
   D. ALL ELECTRICAL MATERIALS SHALL BE NEW, EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING TO BE REUSED, AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC. (UL). DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND ENGINEER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS.
   E. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE AND SHALL BE PERFORMED IN ACCORDANCE WITH ALL BUILDING RULES AND REGULATIONS AS PROVIDED BY THE BUILDING OWNER.
   F. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
   G. WHERE CONDUITS, WIREWAYS, AND OTHER ELECTRICAL RACEWAYS PASS THROUGH FIRE RATED PARTITIONS OR SLABS, INSTALL A UL LISTED FIRE STOP OF ROCKWOOL FIBER OR SILICON FOAM SEALANT TO PROVIDE AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE AND SMOKE. APPROVED MANUFACTURERS: HILTI & 3M
   H. ALL CERTIFICATES OF APPROVAL SHALL BE IN TRIPLICATE, DELIVERED TO THE ENGINEER, AND BECOME THE PROPERTY OF THE OWNER.
   I. VERIFY ALL EQUIPMENT REQUIREMENTS BEFORE INSTALLING CONDUIT OR CONDUCTORS FROM POWER SOURCE TO EQUIPMENT TERMINATION.
   J. X-RAY SLAB IN AREA OF PENETRATION PRIOR TO CORE DRILLING AND COORDINATE WITH EQUIPMENT IN CEILING SPACE BELOW TO CHECK FOR OBSTRUCTIONS. IN ADDITION, REVIEW SLAB PENETRATIONS WITH STRUCTURAL ENGINEER RETAINED BY THE CONTRACTOR IN ORDER TO INSURE THAT THE STRUCTURE'S INTEGRITY IS MAINTAINED. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER FOR ANY ADDITIONAL REQUIREMENTS OR IF GROUND PENETRATING RADAR (GPR) IS AN ACCEPTABLE ALTERNATE TO X-RAY.
   K. ENGINEER'S CONSTRUCTION PHASE SERVICES ARE INTENDED TO BENEFIT THE CLIENT ONLY. SERVICES RENDERED BY ENGINEER DO NOT RELIEVE CONTRACTOR FROM OBLIGATIONS UNDER THE CONSTRUCTION DOCUMENTS. ENGINEER DOES NOT HAVE AUTHORITY TO SUPERVISE, DIRECT OR CONTROL CONTRACTOR, AND IS NOT RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION OR FOR SAFETY PROGRAMS OR PRECAUTIONS DURING CONSTRUCTION. NOR IS ENGINEER RESPONSIBLE FOR CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR APPLICABLE LAWS OR CODES.
   L. ENGINEER WILL CONSIDER CONTRACTOR SUBSTITUTIONS IF THEY ARE CLEARLY DELINEATED AS SUCH. ENGINEER CANNOT BE RESPONSIBLE FOR IDENTIFYING ALL SUBSTITUTIONS OR DEVIATIONS FROM THE CONTRACT DOCUMENTS, UNLESS SPECIFICALLY NOTED AS SUCH IN WRITING. CONTRACTOR SHALL MAKE SURE THAT SUBSTITUTED EQUIPMENT MEETS ELECTRICAL REQUIREMENTS AS WELL PHYSICAL REQUIREMENTS OF SPECIFIED EQUIPMENT.

3. WIRING METHODS

   A. ALL CONDUCTORS SHALL BE COPPER, CONFORMING TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STRANDED FOR NO. 8 AWG AND LARGER, SOLID FOR NO. 10 AWG AND SMALLER. THE USE OF ALUMINUM CONDUCTORS FOR ANY PURPOSE SHALL NOT BE ACCEPTABLE.
   B. ALL NEW LUGS & CONNECTORS SHALL RATED FOR 75 DEGREE CENTIGRADE. WHERE EXISTING EQUIPMENT IS REUSED AND REFED, REPLACE ANY EXISTING 60 DEGREE CENTIGRADE LUGS WITH NEW 75 DEGREE CENTIGRADE LUGS.
   C. MINIMUM SIZE CONDUCTOR SHALL BE NO. 12 AWG. CONDUCTORS SHALL BE THERMOPLASTIC TYPE THHN/THWN. ALL WIRE AMPACITIES SHALL BE LIMITED TO THE 75 DEGREES CENTIGRADE COLUMN OF TABLE 310-16 OF THE NEC.
   D. ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ALL FLEXIBLE CABLE, AC OR MC ETC, SHALL BE COLOR CODED ON THE EXTERIOR OF THE METAL CLADDING.
   E. GROUNDING OF THE ENTIRE ELECTRICAL SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND AS INDICATED ON DRAWINGS.
   F. ALL WIRING SHALL BE INSTALLED IN CONDUIT (E.M.T. OR FLEXIBLE METAL CONDUIT). MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN CEILINGS AND/OR WALLS UNLESS SPECIFICALLY NOTED OTHERWISE. CHANNEL EXISTING WALLS WHERE REQUIRED. WHERE WIRING RUNS ARE EXPOSED DUE TO THE LACK OF A NEW FINISHED CEILING, E.M.T. SHALL BE USED. INSTALL ALL CONDUITS IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.
   G. TYPE MC OR AC CABLE MAY BE USED IN LIEU OF EMT IN CONCEALED SPACES WHERE PERMITTED BY CODES AND BUILDING OWNER.
   H. ALL VOICE, DATA, SECURITY, AV AND TV OUTLETS SHALL BE PROVIDED WITH PLASTER RING AND NYLON PULL STRING UP TO CEILING PLENUM ABOVE, IN HOLLOW SLAB TO CEILING WALLS. IN WALLS THAT ARE SLAB TO SLAB OR INSULATED, PROVIDE A 1900 BOX WITH A SINGLE GANG PLASTER RING, EXTEND A 1-INCH CONDUIT UP TO CEILING PLENUM FROM 1900 BOX AND INSTALL A NYLON PULL STRING.
   I. PROVIDE MINIMUM NO. 10 AWG CONDUCTOR SIZE IN BRANCH CIRCUIT RUNS OVER 75 FEET AND N0. 8 AWG IN BRANCH CIRCUIT OVER 120 FEET IN LENGTH FOR 120V CIRCUITS.
   J. ALL RACEWAYS SHALL BE CONCEALED. WHERE RACEWAYS CANNOT BE CONCEALED, IT SHALL BE INSTALLED AT ARCHITECT'S DIRECTION.
   K. PROVIDE ACCESS PANELS WHERE REQUIRED FOR PROPER ACCESS TO JUNCTION BOXES, PULL BOXES, TAP BOXES, ETC. WHERE EXISTING JUNCTION BOXES ARE LOCATED ABOVE NEW DRYWALL CEILING AREAS THESE SHALL BE RELOCATED TO ABOVE ACCESSIBLE CEILING FOR CODE REQUIRED ACCESS. ACCESS PANELS ARE ALLOWED, ONLY IF APPROVED BY THE ARCHITECT. FOR BID PURPOSES, ASSUME JUNCTION BOX RELOCATION MUST OCCUR. SEE ARCHITECTURAL PLANS FOR SPECIFICATIONS OF ACCESS PANELS.
   L. ALL CONNECTORS AND/OR COUPLERS SHALL BE STEEL. CAST FITTINGS ARE NOT ACCEPTABLE.
   M. SEPARATE CONDUCTORS PER NATIONAL ELECTRICAL CODE AND PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH THREE PHASE CONDUCTORS IF MORE THAN THREE PHASE CONDUCTORS ARE INSTALLED IN A SINGLE PIPE.
   N. PROVIDE AND INSTALL TYPE, HCF OR MCIG CABLE FOR ALL BRANCH CIRCUIT WIRING SERVING ISOLATED GROUND TYPE RECEPTACLES (IG). THE CONTRACTOR SHALL ENSURE THAT THE ISOLATED GROUND CONDUCTOR IS A MINIMUM NO. 12 AWG COPPER CONDUCTOR AND THAT A SEPARATE EQUIPMENT GROUND PATH IS PROVIDED (UL LISTED). THE ISOLATED GROUND AND EQUIPMENT GROUND MAY NOT BE COMBINED.
   O. ALL CONDUITS AND CABLES LOCATED OUTSIDE OF TENANT SPACE THAT ARE PART OF THIS CONSTRUCTION SHALL BE LABELED AT THE TERMINATION (SOURCE) AND JUST OUTSIDE OF THE TENANT SPACE. THIS LABELING SHALL INDICATE SOURCE.
   P. ALL JUNCTION BOXES ABOVE CEILINGS SHALL BE MARKED WITH PANEL & CIRCUIT DESIGNATION FOR CIRCUITS CONTAINED WITHIN.

4. WIRING DEVICES

   A. ALL WIRING DEVICES SHALL BE PROVIDED AS LOCATED ON THE ARCHITECTURAL PLANS AND AS IDENTIFIED IN THE SYMBOL LIST.
   B. ALL OUTLET BOXES SHALL BE GALVANIZED STEEL, AT LEAST 1 - 1/2 INCH DEEP AND OF SUFFICIENT SIZE TO ACCOMMODATE THE WIRING DEVICES AND/OR WIRING TO BE INSTALLED.
   C. OUTLET BOXES FOR WIRING DEVICES IN FINISHED WALLS SHALL BE ONE PIECE STANDARD GANG TYPE OF SIZE TO ACCOMMODATE NUMBER OF DEVICES NOTED. BOXES SHALL HAVE PLASTIC COVERS TO BRING BOX OPENING FLUSH WITH FINISHED WALL OR NOT MORE THAN 1/4 INCH IN BACK OF SAME.
   D. WIRING DEVICES OF THE SAME OR SIMILAR TYPE SHOWN ADJACENT TO EACH OTHER ON THE DRAWINGS SHALL BE INSTALLED IN A MULTI-GANGED OUTLET BOX AND UNDER A COMMON COVERPLATE. REFER TO ALL APPLICABLE NOTES.
   E. PROVIDE THE FOLLOWING TYPE OF DEVICES FOR THE PROJECT:
      NOTE: FINAL SELECTION OF DEVICE AND COVERPLATE COLOR SHALL BE BY ARCHITECT.

      1) DUPLEX RECEPTACLES 2P, 3W, 20A, 125V; P&S CAT. NO. 26352.
      2) ISOLATED GROUND DUPLEX RECEPTACLES 2P, 3W, 20A, 125V; P&S CAT. NO. IG26362 (ORANGE).
      3) DUPLEX RECEPTACLES 2P, 3W, 20A, 125V; GROUND FAULT CIRCUIT INTERRUPTER; P&S CAT. NO. 2091-S.
      4) FLUSH FLOOR POKE-THRU WITH DUPLEX RECEPTACLE 2P, 3W, 20A, 125V AND SPACE FOR (4) CATEGORY 5 JACKS: WIREMOLD RC3 SERIES.
      5) FLUSH FLOOR POKE-THRU WITH DOUBLE DUPLEX RECEPTACLE 2P, 3W, 20A, 125A AND SPACE FOR (4) CATEGORY 5 JACKS: WIREMOLD RC4 SERIES.
      6) FLUSH FLOOR BOX WITH FLIP LID AND RECESSED DEVICES; WALKER 6AT OR 8AT SERIES WITH DEVICES AS NOTED ON PLANS.
      7) FLUSH FLOOR BOX WITH FLIP LID AND RECESSED DEVICES; FURNITURE FEED 6ATCFF DEVICES AS NOTED ON PLANS.
      8) SINGLE-WAY FLUSH TUMBLER SWITCH (20A); P&S CAT. NO. 2621.
      9) THREE-WAY FLUSH TUMBLER SWITCH (20A); P&S CAT. NO. 2623.
      10) ALL COVER PLATES FOR DEVICES LISTED ABOVE SHALL BE THERMOPLASTIC UON.
      11) COVER PLATES AT WALL COVERING SHALL BE PAINTED TO MATCH, SEE ARCHITECTURAL FINISH PLANS.
      12) WALL MOUNTED OCCUPANCY SENSOR SWITCH SHALL BE DUAL TECHNOLOGY (PIR & ULTRASONIC); (SEE LIGHTING CONTROL LEGEND ON LIGHTING PLAN)
      13) CEILING MOUNTED OCCUPANCY/VACANCY SENSOR SHALL BE DUAL TECHNOLOGY (PIR & ULTRASONIC); (SEE LIGHTING CONTROL LEGEND ON LIGHTING PLAN)
      14) POWER PACK CONTROL SWITCH FOR CEILING OCCUPANCY SENSOR; (SEE LIGHTING CONTROL LEGEND ON LIGHTING PLAN).
      15) WALL MOUNTED OCCUPANCY/VACANCY SENSOR SENSOR SWITCH, 2 ZONES OF CONTROL; (SEE LIGHTING CONTROL LEGEND ON LIGHTING PLAN)

   F. ALL WIRING FOR DEVICES WITH ISOLATED GROUND TYPE OUTLETS SHALL HAVE THEIR CIRCUITING PROVIDED WITH A GREEN INSULATED GROUND CONDUCTOR FROM PANEL GROUND BUS TO EACH OUTLET IN BRANCH. THIS CONDUCTOR SHALL BE USED FOR THE ISOLATED GROUND ONLY. DO NOT USE FOR EQUIPMENT GROUND.
   G. PROVIDE AND INSTALL A SEPARATE NEUTRAL CONDUCTOR FOR EACH DIMMER AND GROUND FAULT INTERRUPTER RECEPTACLE.
   H. OCCUPANCY/VACANCY SENSORS SHALL BE SET TO TURN LIGHTING FIXTURES OFF AT 15 MINUTES.

5. CONDUCTOR INSTALLATION

   A. HOMERUNS TO THE PANELBOARD MAY BE RUN TOGETHER IN ONE CONDUIT, PROVIDED ALL CONNECTIONS ARE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE REQUIREMENTS AND THE MAXIMUM UNBALANCED CURRENT IN NEUTRAL DOES NOT EXCEED THE CAPACITY OF THE WIRE. NO MORE THAN THREE SINGLE PHASE CIRCUITS SERVED FROM DIFFERENT PHASES OR ONE THREE PHASE CIRCUIT SHALL BE INSTALLED IN ONE RACEWAY.
   B. CONDUCTORS SHALL BE CONTINUOUS (SPLICE FREE) FROM TERMINATION TO TERMINATION. PROVIDE PULLBOXES WHERE SPLICES ARE ABSOLUTELY NECESSARY; SPLICE IN READILY ACCESSIBLE PULL, JUNCTION OR OUTLET BOX.

6. MODIFICATIONS TO EXISTING PANELBOARDS

   A. PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSED SWITCHES AS REQUIRED. NEW EQUIPMENT SHALL MATCH EXISTING INSTALLED EQUIPMENT AND SHALL BE OF THE SAME MANUFACTURER AND TYPE AS SIMILAR EXISTING EQUIPMENT. INTERRUPT RATING OF EQUIPMENT SHALL BE THE SAME AS THAT OF EXISTING EQUIPMENT. PROVIDE NEW TYPED PANELBOARD DIRECTORY TO REFLECT CHANGES MADE TO PANELBOARD AND THE EXISTING TO REMAIN CIRCUITS. THE DIRECTORY SHALL INDICATE DEVICE SERVED AND SPECIFIC LOCATION OF DEVICE(S). SPECIFIC LOCATION SHALL INDICATE ROOM NUMBER AND TYPE OF ROOM (i.e. RECEPTACLES-OFFICES 514, 515 & 516). THE CONTRACTOR SHALL INSURE THAT COMPLIANCE WITH NEC 408.4 IS MET CLEARLY ON ALL PANELBOARD DIRECTORIES.

7. NEW PANELBOARDS

   A. ALL PANELBOARDS SHALL BE BOLT-ON TYPE CIRCUIT BREAKER WITH COPPER BUS AND FULL NEUTRAL UON.
   B. IN PANELBOARDS, "EQUIPPED SPACE" OR "SPACE" UNDER THIS CONTRACT IS DEFINED TO INCLUDE ALL NECESSARY BUS, DEVICE SUPPORTS AND CONNECTIONS FOR INSERTION OF A FUTURE DEVICE.
   C. PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THIS WORK. THE DIRECTORY SHALL INDICATE DEVICE SERVED AND SPECIFIC LOCATION OF DEVICE(S). SPECIFIC LOCATION SHALL INDICATE ROOM NUMBER AND TYPE OF ROOM (i.e. RECEPTACLES-OFFICES 514, 515 & 516). THE CONTRACTOR SHALL INSURE THAT COMPLIANCE WITH NEC 408.4 IS MET CLEARLY ON ALL PANELBOARD DIRECTORIES.

8. INTERRUPTION OF ELECTRICAL POWER

   A. COORDINATE ALL WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER WITH THE BUILDING OWNER AND SHALL OBTAIN WRITTEN PERMISSION FROM THE BUILDING OWNER PRIOR TO SHUTTING DOWN POWER TO ANY ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL ALSO PROVIDE NOTICE TO ALL OTHER TRADES OF ALL SCHEDULED INTERRUPTIONS OF POWER.

9. SITE VISIT

   A. PRIOR TO SUBMITTING HIS BID, VISIT THE SITE AND FAMILIARIZE YOURSELF WITH ALL EXISTING CONDITIONS. NOTIFY THE ARCHITECT AND/OR ENGINEER IN ADVANCE OF ANY CONDITION THAT EXISTS THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. FAILURE TO SURVEY THE SITE PRIOR TO BID AND START OF CONSTRUCTION WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO INSTALL DESIGN WITHIN THE CONFINES OF EXISTING CONDITIONS.

10. GUARANTEE

   A. LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE.
   B. DURING THE ONE YEAR GUARANTEE PERIOD, PROVIDE PROPER REPAIR AND ADJUSTMENTS OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC., INSTALLED AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.
   C. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.
   D. DEMONSTRATE OPERABILITY OF ALL SYSTEMS IN THIS DESIGN TO THE SATISFACTION OF THE TENANT, DESIGN TEAM, CM/PM & BUILDING ENGINEER AS NECESSARY AND REQUESTED.

11. RECORD DRAWINGS

   A. MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF WORK.

12. LIGHTING FIXTURES

   A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND FIXTURE ARRANGEMENT IN ALL AREAS.
   B. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS TO FINALIZE LIGHT FIXTURE SELECTIONS IN CONJUNCTION WITH CONTROLS SPECIFIED TO PROVIDE A FULLY FUNCTIONING SYSTEM PER LIGHTING CONTROL DESIGN AND SEQUENCE OF OPERATION, IF A SEQUENCE OF OPERATION IS PROVIDED. PROVIDE LIGHT FIXTURE SUBMITTAL PRIOR TO OR AT SAME TIME AS THE LIGHTING CONTROL SUBMITTAL.
   C. NOTIFY ARCHITECT OF ANY LIGHTING LAYOUT INTERFERENCE WITH EXISTING STRUCTURAL MEMBERS AND/OR MECHANICAL/SPRINKLER EQUIPMENT TO OBTAIN FINAL APPROVAL PRIOR TO INSTALLATION.
   D. ALL LUMINAIRES SHALL BE SUPPORTED IN ACCORDANCE WITH N.E.C. 410.30 & 410.36.

13. DEMOLITION NOTES

   A. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION WORK.
   B. MAINTAIN CONTINUITY OF ALL CIRCUITS AFFECTED BY DEMOLITION. INTEGRITY TO OTHER AREAS SHALL NOT BE DAMAGED.
   C. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXISTING LIGHTING FIXTURES TO REMAIN, NEW LIGHTING FIXTURES, LIGHTING FIXTURES TO BE RELOCATED, AND LIGHTING FIXTURES TO BE REMOVED.
   D. CLEAN, RELAMP AND REPAIR EXISTING LIGHTING FIXTURES THAT ARE TO BE RELOCATED.
   E. COORDINATE WITH ARCHITECT TO MATCH NEW LIGHTING FIXTURES WITH EXISTING LIGHTING FIXTURES.
   F. REMOVE ALL UNUSED WIRING BACK TO PANEL AND/OR EXISTING TO REMAIN FIXTURE, RECEPTACLE, ETC. AS APPLICABLE.
   G. DEMOLISH ALL RECEPTACLES, OUTLETS, FIRE ALARM DEVICES, SWITCHES, ETC. THAT ARE IN PARTITIONS AND/OR COLUMNS TO BE DEMOLISHED. REMOVE ALL WIRING BACK TO NEAREST REMAINING DEVICE.
   H. ALL RECEPTACLES, LIGHT FIXTURES, EXIT SIGNS, OUTLETS, ETC. SHOWN ON PLAN ARE NEW, UNLESS OTHERWISE NOTED. "E" INDICATES EXISTING TO REMAIN, "R" INDICATES RELOCATED AND "X" INDICATES TO BE DEMOLISHED.
   I. PATCH OVER AND PAINT TO MATCH EXISTING, ALL RECEPTACLES, FIRE ALARM DEVICES, OUTLETS, SWITCHES, ETC. THAT ARE TO BE DEMOLISHED OR RELOCATED.
   J. REMOVE ALL OBSOLETE INACTIVE OR OTHERWISE UNUSED DATA, VOICE, SECURITY AND AUDIO-VISUAL CABLING IN RACEWAYS AND ABOVE CEILINGS PER NEC 800.3.C.

14. COORDINATION AND PRICING OF ELECTRICAL SUPPORT SYSTEMS FOR LOW VOLTAGE CABLING SYSTEMS.

   A. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATION WITH ALL TRADES: AUDIO-VISUAL, SECURITY AND TELECOM/DATA. DRAWINGS FROM THESE TRADES HAVE BEEN INCLUDED AS PART OF THE OVERALL DESIGN PACKAGE (DRAWINGS PERFORMED BY OTHERS) AND SHALL BE USED FOR PRICING AND INSTALLATION OF ALL CONDUITS, CONDUIT SLEEVES, CORE DRILL, BACK BOXES, PULL BOXES, ETC REQUIRED THAT WILL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR FOR USE BY THE CABLING VENDORS IN THE INSTALLATION OF THE AV, SECURITY AND IT CABLING INFRASTRUCTURE.
   B. REFER TO AUDIO-VISUAL - SERIES DRAWINGS FOR ALL TV, AV JUNCTION BOXES, BACK BOXES REQUIREMENT, ASSOCIATED CONDUIT AND SIZES FROM BACK BOXES UP TO ACCESSIBLE CEILING SPACE AT ALL CONFERENCE AND TELEPRESENCE ROOMS, ETC INCLUDING FLOOR POKE-THRU DEVICE TYPES, RECESSED FLOOR BOX TYPE, QUANTITY AND LOCATION.
   C. REFER TO TELECOM/DATA - SERIES DRAWINGS FOR ALL CONDUIT, CONDUIT SLEEVES, CORE DRILLING FOR QUANTITY, SIZES AND CONDUIT ROUTING REQUIREMENT FOR THE ENTIRE PROJECT, INCLUDING CABLE TRAY AND INCOMING UNDERGROUND TELECOM SERVICES
   D. REFER TO SECURITY- SERIES DRAWINGS FOR ALL SECURITY CARD READER, INTRUSION MOTION DETECTOR, CAMERA, VIDEO INTERCOM, AND SECURITY PANEL LOCATION, BACK BOXES, JUNCTION BOXES, WIRE WAYS, CONDUIT REQUIREMENT AND CONDUIT ROUTING.

ELECTRICAL SYMBOLS LIST

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	CEILING OR WALL LED OR FLUORESCENT FIXTURE	AS NOTED
EM EM	CEILING OR WALL LED OR FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT	AS NOTED
	CEILING OR WALL FLUORESCENT FIXTURE	AS NOTED
	CEILING OR WALL FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT	AS NOTED
	CEILING OR WALL MOUNTED EXIT LIGHT ON EMERGENCY CIRCUIT - ARROWS INDICATE DIRECTION	AS NOTED
A A	LETTER NEXT TO LIGHT FIXTURE SYMBOL INDICATES TYPE OF LIGHTING FIXTURE	N/A
S	SINGLE POLE FLUSH TUMBLER SWITCH	42" AFF UON
3 S 4 S	THREE OR FOUR WAY FLUSH TUMBLER SWITCH	42" AFF UON
S_M	WALL MOUNTED OCCUPANCY/VACANCY SENSOR SWITCH.	PER ARCHITECT PLANS
M S A S B	WALL MOUNTED, SINGLE GAUGE, OCCUPANCY SENSOR SWITCH WITH 2 ZONES OF CONTROL, (A AND B)	42" AFF UON
S_D	DIMMER SWITCH LUTRON NOVA T-STAR SERIES - PROVIDE DIMMER VOLTAGE TO MATCH FIXTURE CAPACITY CIRCUITED.	42" AFF UON
	EMERGENCY POWER OFF BUTTON	48" AFF UON
	WALL MOUNTED DUPLEX RECEPTACLE, 2P-3W-20A-125V	18" AFF UON
	WALL MOUNTED DOUBLE DUPLEX RECEPTACLE: 2P-3W-20A-125V	18" AFF UON
PC	WALL MOUNTED DUPLEX RECEPTACLE, 2P-3W-20A-125V FOR PERSONAL COMPUTER. SUBSCRIPT MAY BE "PC" OR "C" WALL MOUNTED DOUBLE DUPLEX RECEPTACLE 2P-3W-20A-125V	18" AFF UON
	ONE DUPLEX SHALL BE PROJECT STANDARD COLOR FOR CONVENIENCE AND ONE DUPLEX SHALL BE A CONTRASTING COLOR FOR PC	18" AFF UON
IG	WALL MOUNTED DUPLEX RECEPTACLE 2P-3W-20A-125V ISOLATED GROUND TYPE, ORANGE.	18" AFF UON
GFI	WALL MOUNTED GROUND FAULT INTERRUPTER RECEPTACLE 2P-3W-20A-125V	6" ABOVE COUNTER TOP
	SPECIAL RECEPTACLE - ALPHANUMERICS INDICATE- NEMA CONFIGURATION	18" AFF UON
	VOICE OUTLET	18" AFF UON
	DATA OUTLET	18" AFF UON
	COMBINATION DATA/ VOICE OUTLET.	18" AFF UON
	FLUSH FLOOR BOX WITH FLIP LID AND RECESSED RECEPTACLES AND OUTLETS.	N/A
	FLUSH FLOOR POKE THROUGH DEVICE	N/A
AV	AUDIO VISUAL DEVICE	PER ARCH/AV CONSULT.
TV	WALL MOUNTED CABLE TV OUTLET	18" AFF UON
J J	CEILING OR WALL MOUNTED JUNCTION BOX	AS NOTED
P P	BRANCH CIRCUIT PANELBOARD - ALPHANUMERICS INDICATES PANEL DESIGNATION	6'-6" TO TOP
3 1 P	BRANCH CIRCUIT HOMERUN TO PANELBOARD - NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS IN RUN. LETTERS & NUMBERS NEXT TO ARROWHEADS DESIGNATE PANELBOARD AND CIRCUIT NUMBERS	N/A
	INSULATED GROUND WIRE	N/A
	BRANCH CIRCUIT WIRING CONCEALED IN CEILING OR WALL - HOMERUNS 3/4" EC MINIMUM - TICK MARKS INDICATE NUMBER OF CONDUCTORS I.E. 3#12AWG CONDUCTORS WITH A SEPARATE UL LISTED EQUIPMENT GROUND PATH.	N/A
	HOMERUN TO SWITCH LOCATION	N/A
4 T 5	DRY TYPE TRANSFORMER - NUMERAL DENOTES SIZE (SEE SCHEDULE)	N/A
	MOTOR CONNECTION	N/A
	DISCONNECT SWITCH/STARTER DISCONNECT SWITCH X/Y/Z WHERE X IS NUMBER OF POLES, Y IS FRAME SIZE IN AMPERAGE AND Z IS FUSE SIZE IN AMPERAGE.	5'-0" AFF UON
	DISCONNECT SWITCH SUPPLIED WITH MECHANICAL EQUIPMENT	N/A
G	JUNCTION BOX FOR GARBAGE DISPOSAL WITH REMOTE SWITCH - LOCATE SWITCH 6" TO LEFT/RIGHT OF SINK	12" AFF UON
D	JUNCTION BOX FOR DISHWASHER WITH TOGGLE SWITCH	12" AFF UON
	DUCT HEATER WITH INTEGRAL DISCONNECT SWITCH	N/A
AC-1	MECHANICAL HVAC UNIT	N/A
OC	CEILING MOUNTED OCCUPANCY SENSOR (SET POINT CONTROLLING MIN. OF 1000 SF). WITH ASSOCIATED POWER SWITCH PACK.	AS NOTED
VS	CEILING MOUNTED WIRELESS PASSIVE INFRARED AND LUTRON XCT TECHNOLOGY SENSOR SWITCH (DEFAULT VACANCY SENSOR)	AS NOTED
OS	CEILING MOUNTED WIRELESS PASSIVE INFRARED AND LUTRON XCT TECHNOLOGY SENSOR SWITCH (DEFAULT OCCUPANCY SENSOR)	AS NOTED
PC	POWER SWITCH PACK CONTROL STATION FOR OCCUPANCY SENSORS.	42" AFF UON
CR	CARD READER	18" AFF UON
VD P	SYSTEM FURNITURE BASE FEEDS-ONE FOR POWER CONNECTION & ONE FOR VOICE/DATA	12" AFF UON
	GROUND BAR- REFER TO DETAIL ON DETAIL SHEET	42" AFF UON
S(X)	SWITCHBANK LOCATION	
A E-501	SECTION MARKER SHEET WHERE SECTION IS SHOWN	
1 E-501	DETAIL MARKER SHEET WHERE DETAIL IS SHOWN	

ELECTRICAL ABBREVIATIONS

3R	NEMA 3R RATED DEVICE
AFF	ABOVE FINISHED FLOOR
A	AMP
AWG	AMERICAN WIRE GAUGE
CB	CIRCUIT BREAKER
C	CONDUIT
D	DEDICATED
E	EXISTING
EC	EMPTY CONDUIT
EPO	EMERGENCY POWER OFF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FSS	FUSED SAFETY SWITCH
GAP	GRAPHIC ANNUNCIATOR PANEL
GFI	GROUND-FAULT INTERRUPTER
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KCM	KILO CIRCULAR MILS
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
N	NEW
NEC	NATIONAL ELECTRIC CODE
NFSS	NON-FUSED SAFETY SWITCH
PNL	PANEL
PC	PERSONAL COMPUTER
Ø,PH	PHASE
P	POLE
R	RELOCATED
REC.	RECEPTACLE
RM.	ROOM
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WP	WEATHERPROOF
X	DEMOLISH
XFMR	TRANSFORMER

NOTE:
THESE ARE STANDARD SYMBOLS AND ABBREVIATIONS, AND MAY NOT ALL APPEAR ON THE CONTRACT DRAWINGS.

ELECTRICAL DRAWING LIST

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

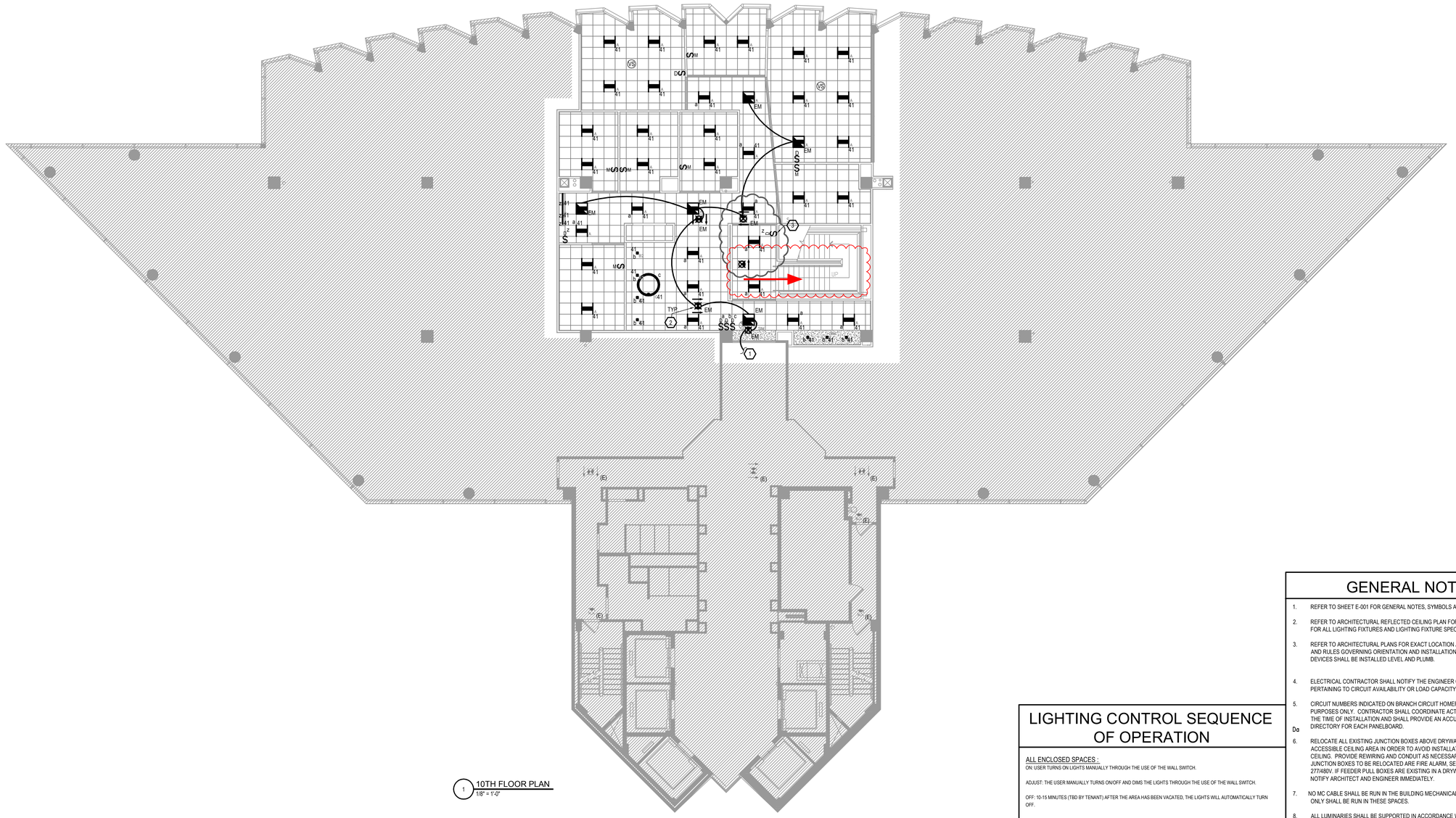
FILE NAME	
JOB NUMBER	11096-011

ELECTRICAL
COVER SHEET

E001

Plotted By: Shannon Strong | 6/28/17 | 2:17 PM

ARL: K:\90\18808728\E-Cover Sheet



1 10TH FLOOR PLAN
1/8" = 1'-0"

LIGHTING CONTROL SEQUENCE OF OPERATION

ALL ENCLOSED SPACES :
ON: USER TURNS ON LIGHTS MANUALLY THROUGH THE USE OF THE WALL SWITCH.

ADJUST: THE USER MANUALLY TURNS ON/OFF AND DIMS THE LIGHTS THROUGH THE USE OF THE WALL SWITCH.

OFF: 10-15 MINUTES (TBD BY TENANT) AFTER THE AREA HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.

OPEN AREAS:
ON/OFF: LIGHTS AUTOMATICALLY TURN ON AND OFF VIA OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH.

SWITCH LEGEND

SYMBOL	DESCRIPTION	CATALOG #
VS	CEILING MOUNTED WIRELESS PASSIVE INFRARED AND LUTRON XCT TECHNOLOGY SENSOR SWITCH (DEFAULT VACANCY SENSOR)	LRF2-OC2B-P-WH-WH OR LRF2-VC2B-P-WH-WH 434 MHz OCCUPANCY/ VACANCY SENSOR
Da Da SS	WALL MOUNTED LUTRON MAESTRO 6A-3W FLUORESCENT SPEC GRADE, NEUTRAL WIRE DIMMER 120-277V. (SWITCH LETTER DESIGNATION)	MRF2-F6ANS-DV-WH (NEUTRAL WIRES REQUIRED)
H S	WALL MOUNTED MULTI TECHNOLOGY PASSIVE INFRARED & ULTRASONIC SENSOR SWITCH	LUTRON MAESTRO MS-OPS6M2-PV-WH
S	WALL MOUNTED LUTRON MAESTRO WIRELESS COMMERCIAL SWITCHES WITH RADIO POWER SAVR SENSOR	MRF2-6ANS-277-WH (NEUTRAL WIRES REQUIRED

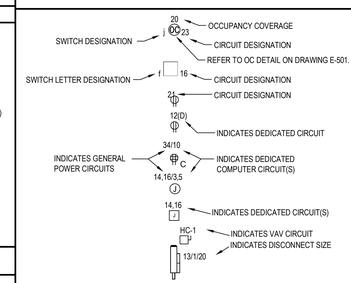
#KEY NOTES#

1. CONTRACTOR SHALL CONNECT 2 # 12 + # 12 G IN 3/4" C TO EXISTING 277V EMERGENCY CIRCUIT PREVIOUSLY SERVING THIS FLOOR. CONTRACTOR TO VERIFY THAT LOAD ON CIRCUIT, SHALL NOT EXCEED 12.8 AMPS.
2. ALL NEW EXIT LIGHT SIGNS SHALL MATCH BUILDING STANDARD WITH LED VERSION THAT MEETS 2012 IECC REQUIREMENT OF NO MORE THAN 5 WATTS PER FACE.
3. SWITCH TO CONTROL PENDANT FIXTURES IN STAIRWELL ON 11TH FLOOR. SEE SHEET E111 FOR FIXTURE LOCATION.

GENERAL NOTES

1. REFER TO SHEET E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATIONS FOR ALL LIGHTING FIXTURES AND LIGHTING FIXTURE SPECIFICATION.
3. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS AND RULES GOVERNING ORIENTATION AND INSTALLATION OF ALL DEVICES. ALL DEVICES SHALL BE INSTALLED LEVEL AND PLUMB.
4. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
5. CIRCUIT NUMBERS INDICATED ON BRANCH CIRCUIT HOMERUNS ARE FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL COORDINATE ACTUAL CIRCUIT NUMBERS AT THE TIME OF INSTALLATION AND SHALL PROVIDE AN ACCURATE, TYPED PANELBOARD DIRECTORY FOR EACH PANELBOARD.
6. RELOCATE ALL EXISTING JUNCTION BOXES ABOVE DRYWALL CEILING AREA TO ACCESSIBLE CEILING AREA IN ORDER TO AVOID INSTALLATION OF ACCESS PANELS IN CEILING. PROVIDE REWIRING AND CONDUIT AS NECESSARY FOR THIS WORK. TYPE OF JUNCTION BOXES TO BE RELOCATED ARE FIRE ALARM, SECURITY, 120/208V AND 277/480V. IF FEEDER PULL BOXES ARE EXISTING IN A DRYWALL CEILING SPACE, THEN NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY.
7. NO MC CABLE SHALL BE RUN IN THE BUILDING MECHANICAL / ELECTRICAL ROOM. EMT ONLY SHALL BE RUN IN THESE SPACES.
8. ALL LUMINARIES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC 410.30 + 410.36
9. ALL FLUORESCENT LIGHTING FIXTURES SHALL COMPLY WITH NEC 410.130 (G)

CIRCUIT LEGEND



CIRCUITING NOTE

1. ALL 277V LIGHTING CIRCUITS ON THIS FLOOR LIGHTING PLAN SHALL HOMERUN TO EXISTING PANEL HL-10 IN THE ELECTRICAL ROOM U.O.N.
2. SWITCH LIGHTS FIXTURES IN ENCLOSED SPACES, (I.E. OFFICE, CONFERENCE ROOM, ETC), AT THE LIGHT SWITCH SHOWN IN THAT SPACE.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112FAX WWW.MORGANMICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No.	18808728	PROJ. MGR.	LM
MECH.	SS	ELEC.	BT	PLUMB.	SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	PERMIT REVISION	08.10.17
	ISSUE FOR BID	07.21.17
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

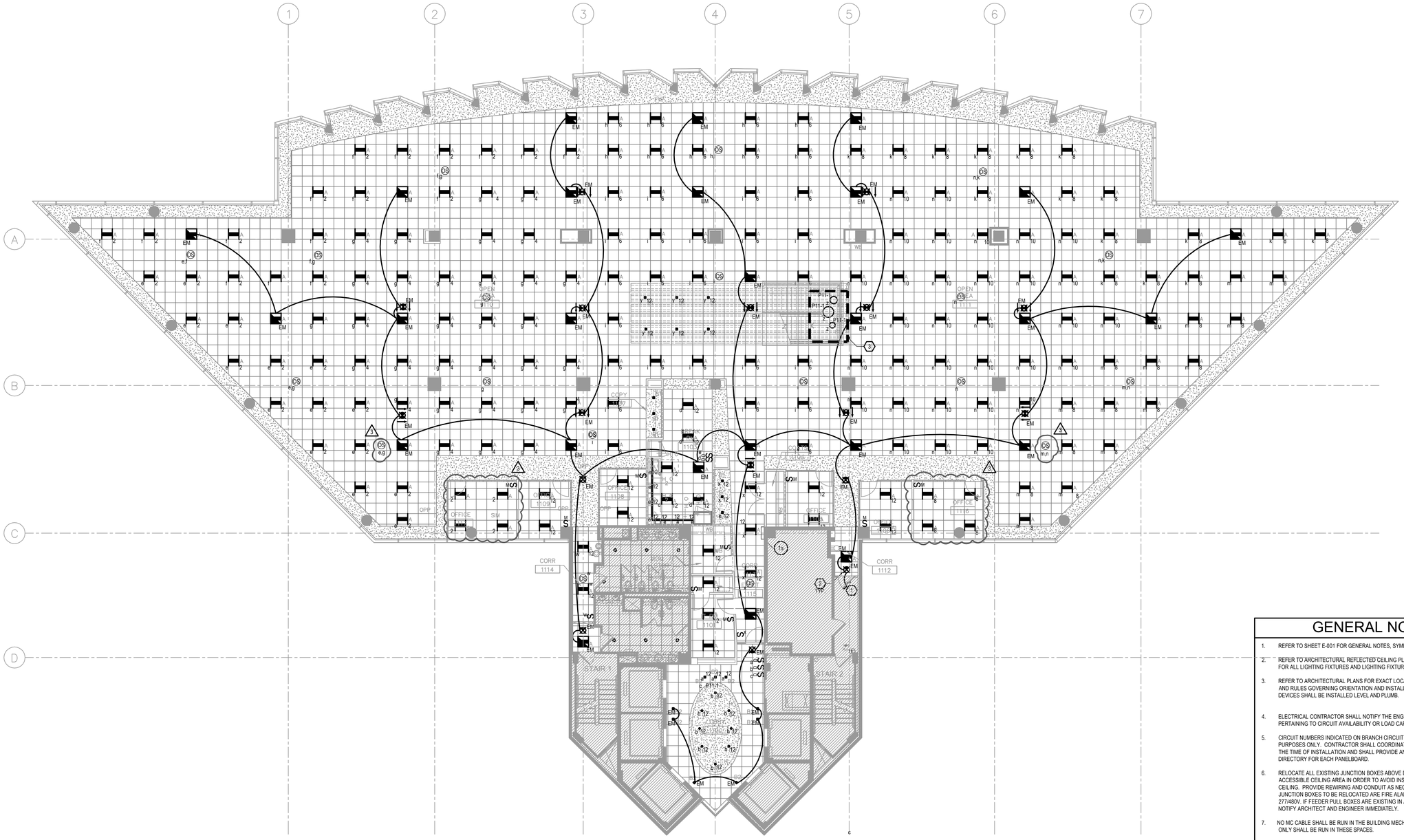
FILE NAME	
JOB NUMBER	11096-011

ELECTRICAL 10TH FLOOR LIGHTING PLAN

E110

Plotted By: Laura Morder | 8/11/17 | 7:35 AM

ARL: K:\SHARED\18808728\E-10th Floor Lighting Plan



1 11TH FLOOR PLAN
1/8" = 1'-0"

LIGHTING CONTROL SEQUENCE OF OPERATION

ALL ENCLOSED SPACES :
ON: USER TURNS ON LIGHTS MANUALLY THROUGH THE USE OF THE WALL SWITCH.

ADJUST: THE USER MANUALLY TURNS ON/OFF AND DIMS THE LIGHTS THROUGH THE USE OF THE WALL SWITCH.

OFF: 10-15 MINUTES (TBD BY TENANT) AFTER THE AREA HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF.

OPEN AREAS:
ON/OFF: LIGHTS AUTOMATICALLY TURN ON AND OFF VIA OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH.

(#) SWITCHBANK SCHEDULE (#)

	a	b	c	d	e	f	g	h	i	j	k	l	m	n	y	z
1a	S	S	S	S	S	S	S	S	S							

SWITCHBANK NOTES

1. ALL SWITCHES AND DIMMERS IN SWITCHBANK SHALL BE INSTALLED IN A MULTI-GANGED OUTLET BOX OF ADEQUATE SIZE UNDER A COMMON COVERPLATE.
2. PROVIDE BARRIERS IN SWITCHBANKS BETWEEN 120V AND 277V DEVICES.
3. ALL STANDARD SWITCHES AND DIMMER SWITCHES (SD) SHALL BE AS MANUFACTURED BY LUTRON AND SHALL BE THE DIVA COMMERCIAL SERIES, WHITE, GANGABLE WITH STANDARD PADDLE/ROCKER SWITCHES.

SWITCH LEGEND

SYMBOL	DESCRIPTION	CATALOG #
OS	CEILING MOUNTED WIRELESS PASSIVE INFRARED AND LUTRON XCT TECHNOLOGY SENSOR SWITCH (DEFAULT OCCUPANCY SENSOR)	LRF2-OC2B-P-WH-WH OR LRF2-VC2B-P-WH-WH 434 MHz OCCUPANCY/ VACANCY SENSOR
Da, Db SS	SWITCH LETTER DESIGNATION WALL MOUNTED LUTRON MAESTRO 6A-3W FLUORESCENT SPEC GRADE, NEUTRAL WIRE DIMMER 120-277V.	MRF2-F6ANS-DV-WH (NEUTRAL WIRES REQUIRED)
M S	WALL MOUNTED MULTI TECHNOLOGY PASSIVE INFRARED & ULTRASONIC SENSOR SWITCH	LUTRON MAESTRO MS-OPS6M2-PV-WH
S	WALL MOUNTED LUTRON MAESTRO WIRELESS COMMERCIAL SWITCHES WITH RADIO POWER SAVR SENSOR	MRF2-6ANS-277-WH (NEUTRAL WIRES REQUIRED

(#) KEY NOTES (#)

1. CONTRACTOR SHALL CONNECT 2 # 12 + # 12 G IN 3/4" C TO EXISTING 277V EMERGENCY CIRCUIT PREVIOUSLY SERVING THIS FLOOR. CONTRACTOR TO VERIFY THAT LOAD ON CIRCUIT, SHALL NOT EXCEED 12.8 AMPS.
2. ALL NEW EXIT LIGHT SIGNS SHALL MATCH BUILDING STANDARD WITH LED VERSION THAT MEETS 2012 IECC REQUIREMENT OF NO MORE THAN 5 WATTS PER FACE.
3. FIXTURES TO BE CONTROLLED BY SWITCH ON 10TH FLOOR. SEE SHEET E110.

GENERAL NOTES

1. REFER TO SHEET E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATIONS FOR ALL LIGHTING FIXTURES AND LIGHTING FIXTURE SPECIFICATION.
3. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS AND RULES GOVERNING ORIENTATION AND INSTALLATION OF ALL DEVICES. ALL DEVICES SHALL BE INSTALLED LEVEL AND PLUMB.
4. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
5. CIRCUIT NUMBERS INDICATED ON BRANCH CIRCUIT HOMERUNS ARE FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL COORDINATE ACTUAL CIRCUIT NUMBERS AT THE TIME OF INSTALLATION AND SHALL PROVIDE AN ACCURATE, TYPED PANELBOARD DIRECTORY FOR EACH PANELBOARD.
6. RELOCATE ALL EXISTING JUNCTION BOXES ABOVE DRYWALL CEILING AREA TO ACCESSIBLE CEILING AREA IN ORDER TO AVOID INSTALLATION OF ACCESS PANELS IN CEILING. PROVIDE REWIRING AND CONDUIT AS NECESSARY FOR THIS WORK. TYPE OF JUNCTION BOXES TO BE RELOCATED ARE FIRE ALARM, SECURITY, 120/208V AND 277/480V. IF FEEDER PULL BOXES ARE EXISTING IN A DRYWALL CEILING SPACE, THEN NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY.
7. NO MC CABLE SHALL BE RUN IN THE BUILDING MECHANICAL / ELECTRICAL ROOM. EMT ONLY SHALL BE RUN IN THESE SPACES.
8. ALL LUMINARIES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC 410.30 + 410.36
9. ALL FLUORESCENT LIGHTING FIXTURES SHALL COMPLY WITH NEC 410.130 (G)

CIRCUIT LEGEND

- SWITCH DESIGNATION — 20 / 23 — OCCUPANCY COVERAGE; CIRCUIT DESIGNATION; REFER TO OC DETAIL ON DRAWING E-501.
- SWITCH LETTER DESIGNATION — f / 16 — CIRCUIT DESIGNATION
- 21 — CIRCUIT DESIGNATION
- 12(D) — INDICATES DEDICATED CIRCUIT
- INDICATES GENERAL POWER CIRCUITS — 34/10 — C — INDICATES DEDICATED COMPUTER CIRCUIT(S); 14,16/3,5
- 14,16 — INDICATES DEDICATED CIRCUIT(S)
- HC-1 — INDICATES VAV CIRCUIT; INDICATES DISCONNECT SIZE; 13/1/20

CIRCUITING NOTE

1. ALL 277V LIGHTING CIRCUITS ON THIS FLOOR LIGHTING PLAN SHALL HOMERUN TO EXISTING PANEL HL10 IN THE ELECTRICAL ROOM U.O.N.
2. ALL 120V LIGHTING CIRCUITS ON THIS FLOOR LIGHTING PLAN SHALL HOMERUN TO EXISTING PANEL P11 IN THE ELECTRICAL ROOM U.O.N.
3. SWITCH LIGHTS FIXTURES IN ENCLOSED SPACES, (I.E. OFFICE, CONFERENCE ROOM, ETC), AT THE LIGHT SWITCH SHOWN IN THAT SPACE.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7102FAX WWW.MORGANMICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808726 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
NO.	DESCRIPTION	DATE
2	DIRECTIVE # 2	09.21.17
	FOR CONSTRUCTION	09.07.17
	PERMIT REVISION	08.10.17
	ISSUE FOR BID	07.21.17
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

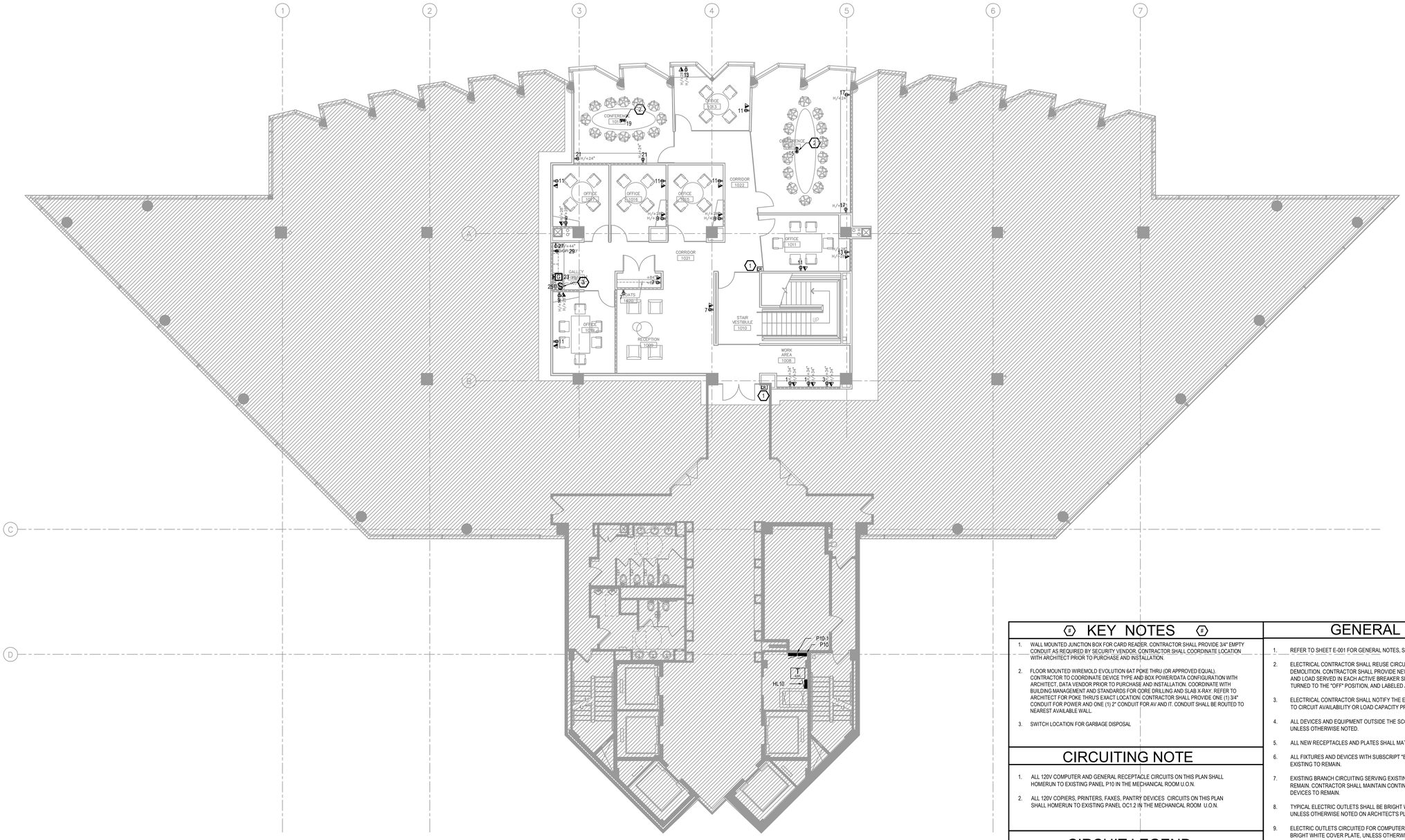
FILE NAME	
JOB NUMBER	11096-011

ELECTRICAL 11TH FLOOR LIGHTING PLAN

E111

Plotted By: Shannon Strong | 9/21/17 | 2:27 PM

ARL: X:\GV\18808726\E-11th Floor Lighting Plan



1 10TH FLOOR PLAN
1/8" = 1'-0"

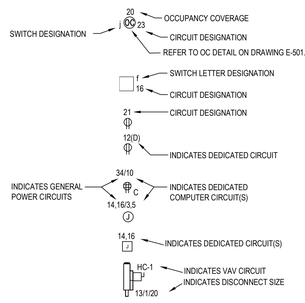
KEY NOTES

1. WALL MOUNTED JUNCTION BOX FOR CARD READER. CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT AS REQUIRED BY SECURITY VENDOR. CONTRACTOR SHALL COORDINATE LOCATION WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
2. FLOOR MOUNTED WIREMOLD EVOLUTION 6AT POKE THRU (OR APPROVED EQUAL). CONTRACTOR TO COORDINATE DEVICE TYPE AND BOX POWER/DATA CONFIGURATION WITH ARCHITECT. DATA VENDOR PRIOR TO PURCHASE AND INSTALLATION. COORDINATE WITH BUILDING MANAGEMENT AND STANDARDS FOR CORE DRILLING AND SLAB X-RAY. REFER TO ARCHITECT FOR POKE THRU'S EXACT LOCATION. CONTRACTOR SHALL PROVIDE ONE (1) 3/4" CONDUIT FOR POWER AND ONE (1) 2" CONDUIT FOR AV AND IT. CONDUIT SHALL BE ROUTED TO NEAREST AVAILABLE WALL.
3. SWITCH LOCATION FOR GARBAGE DISPOSAL

CIRCUITING NOTE

1. ALL 120V COMPUTER AND GENERAL RECEPTACLE CIRCUITS ON THIS PLAN SHALL HOMERUN TO EXISTING PANEL P10 IN THE MECHANICAL ROOM U.O.N.
2. ALL 120V COPIERS, PRINTERS, FAXES, PANTRY DEVICES CIRCUITS ON THIS PLAN SHALL HOMERUN TO EXISTING PANEL OC1.2 IN THE MECHANICAL ROOM U.O.N.

CIRCUIT LEGEND



GENERAL NOTES

1. REFER TO SHEET E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. ELECTRICAL CONTRACTOR SHALL REUSE CIRCUIT BREAKERS MADE AVAILABLE DURING DEMOLITION. CONTRACTOR SHALL PROVIDE NEW, TYPED PANEL DIRECTORY WITH ROOM AND LOAD SERVED IN EACH ACTIVE BREAKER SPACE. ANY UNUSED BREAKER SHALL BE TURNED TO THE "OFF" POSITION, AND LABELED AS SPACE.
3. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
4. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
5. ALL NEW RECEPTACLES AND PLATES SHALL MATCH TENANT STANDARDS.
6. ALL FIXTURES AND DEVICES WITH SUBSCRIPT "E" OR "EX" ADJACENT TO THEM ARE EXISTING TO REMAIN.
7. EXISTING BRANCH CIRCUITING SERVING EXISTING RECEPTACLES TO REMAIN, SHALL REMAIN. CONTRACTOR SHALL MAINTAIN CONTINUITY OF ALL CIRCUITS SERVING EXISTING DEVICES TO REMAIN.
8. TYPICAL ELECTRIC OUTLETS SHALL BE BRIGHT WHITE RECEPTACLE AND COVER PLATE, UNLESS OTHERWISE NOTED ON ARCHITECT'S PLAN.
9. ELECTRIC OUTLETS CIRCUITED FOR COMPUTERS SHALL BE GREY RECEPTACLE AND BRIGHT WHITE COVER PLATE, UNLESS OTHERWISE NOTED ON ARCHITECT'S PLAN.
10. DEDICATED ELECTRIC & ISOLATED GROUND OUTLETS SHALL BE ORANGE RECEPTACLE AND BRIGHT WHITE COVER PLATE, UNLESS OTHERWISE NOTED ON ARCHITECT'S PLAN.
11. REFER TO ARCHITECT'S PLANS FOR OUTLET LOCATIONS, IDENTIFY DISCREPANCIES/CONFLICTS TO ARCHITECT FOR CLARIFICATION.
12. ADJACENT DEVICES (ELECTRIC AND TELE-DATA) SHALL BE CLUSTERED TIGHTLY TOGETHER (7" O.C. MAXIMUM).
13. ELECTRICAL CONTRACTOR SHALL REFER TO AV DRAWINGS FOR ADDITIONAL SCOPE OF ELECTRICAL WORK.
14. CONTRACTOR SHALL COORDINATE ALL A/V FLOOR BOXES, CONDUIT, MOUNTING HEIGHTS AND POWER LOCATIONS WITH A/V DRAWINGS PRIOR TO PURCHASE AND INSTALLATION.
15. WIRELESS ACCESS POINT, CONTRACTOR SHALL VERIFY LOCATION WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
16. RECEPTACLES LOCATED IN PANTRY'S SHALL BE GFI TYPE U.O.N.
17. ALL COMPUTER PC RECEPTACLES SHALL BE GREY U.O.N.
18. NO MC CABLE SHALL BE RUN IN THE BUILDING MECHANICAL / ELECTRICAL ROOM. EMT ONLY SHALL BE RUN IN THESE SPACES.

ARLINGTON
VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No.	1808728	PROJ. MGR.	LM
MECH.	SS	ELEC.	BT	PLUMB.	SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

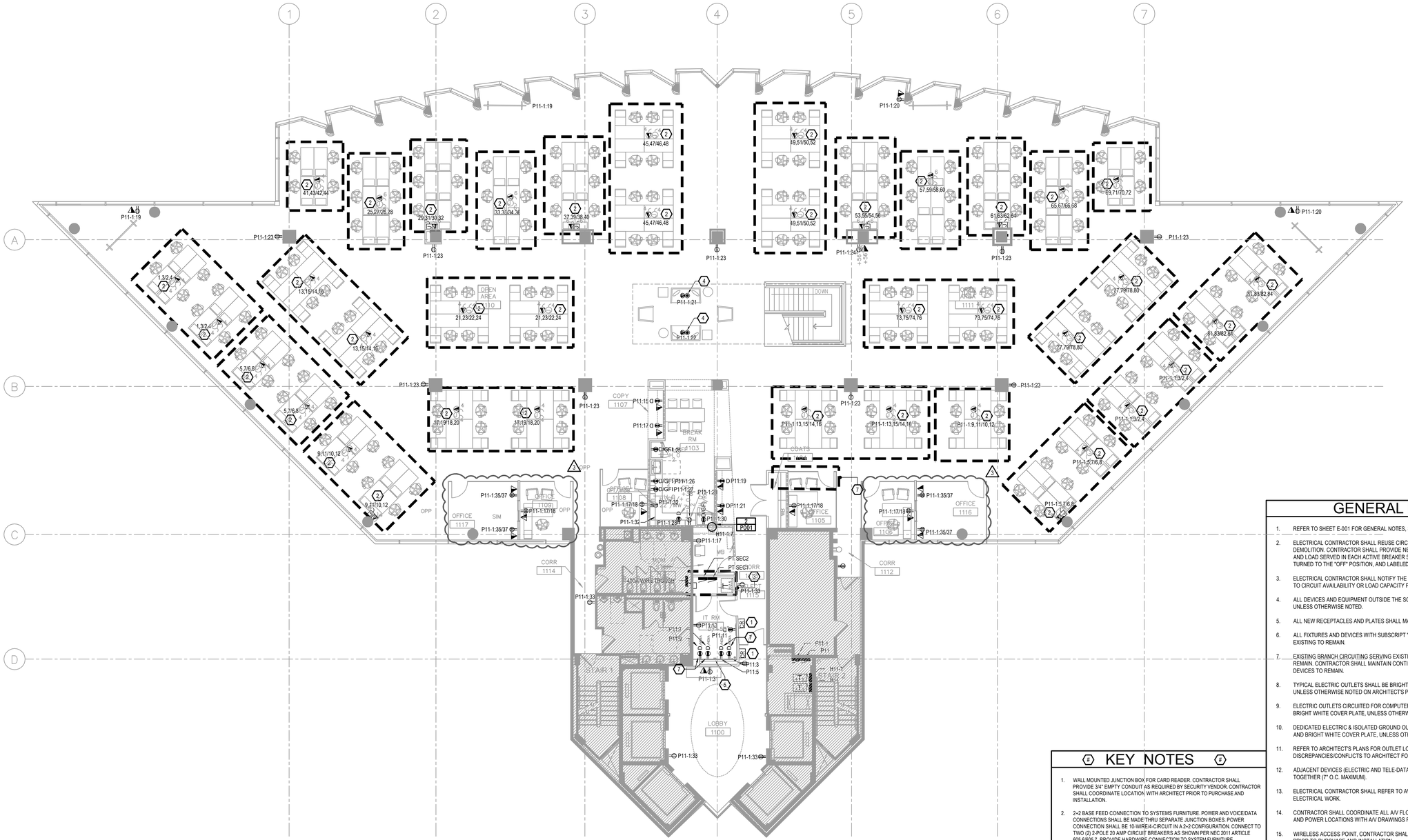
FILE NAME	
JOB NUMBER	11096-011

ELECTRICAL 10TH FLOOR POWER PLAN

E210

Plotted By: Shannon Strong | 6/28/17 | 2:16 PM

ARL: K:\90\1808728\E-10th Floor Power Plan



1 11TH FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET E-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. ELECTRICAL CONTRACTOR SHALL REUSE CIRCUIT BREAKERS MADE AVAILABLE DURING DEMOLITION. CONTRACTOR SHALL PROVIDE NEW, TYPED PANEL DIRECTORY WITH ROOM AND LOAD SERVED IN EACH ACTIVE BREAKER SPACE. ANY UNUSED BREAKER SHALL BE TURNED TO THE "OFF" POSITION, AND LABELED AS SPACE.
3. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
4. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
5. ALL NEW RECEPTACLES AND PLATES SHALL MATCH TENANT STANDARDS.
6. ALL FIXTURES AND DEVICES WITH SUBSCRIPT "E" OR "EX" ADJACENT TO THEM ARE EXISTING TO REMAIN.
7. EXISTING BRANCH CIRCUITING SERVING EXISTING RECEPTACLES TO REMAIN, SHALL REMAIN. CONTRACTOR SHALL MAINTAIN CONTINUITY OF ALL CIRCUITS SERVING EXISTING DEVICES TO REMAIN.
8. TYPICAL ELECTRIC OUTLETS SHALL BE BRIGHT WHITE RECEPTACLE AND COVER PLATE, UNLESS OTHERWISE NOTED ON ARCHITECT'S PLAN.
9. ELECTRIC OUTLETS CIRCUITED FOR COMPUTERS SHALL BE GREY RECEPTACLE AND BRIGHT WHITE COVER PLATE, UNLESS OTHERWISE NOTED ON ARCHITECT'S PLAN.
10. DEDICATED ELECTRIC & ISOLATED GROUND OUTLETS SHALL BE ORANGE RECEPTACLE AND BRIGHT WHITE COVER PLATE, UNLESS OTHERWISE NOTED ON ARCHITECT'S PLAN.
11. REFER TO ARCHITECT'S PLANS FOR OUTLET LOCATIONS, IDENTIFY DISCREPANCIES/CONFLICTS TO ARCHITECT FOR CLARIFICATION.
12. ADJACENT DEVICES (ELECTRIC AND TELE-DATA) SHALL BE CLUSTERED TIGHTLY TOGETHER (7" O.C. MAXIMUM).
13. ELECTRICAL CONTRACTOR SHALL REFER TO AV DRAWINGS FOR ADDITIONAL SCOPE OF ELECTRICAL WORK.
14. CONTRACTOR SHALL COORDINATE ALL A/V FLOOR BOXES, CONDUIT, MOUNTING HEIGHTS AND POWER LOCATIONS WITH A/V DRAWINGS PRIOR TO PURCHASE AND INSTALLATION.
15. WIRELESS ACCESS POINT, CONTRACTOR SHALL VERIFY LOCATION WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
16. RECEPTACLES LOCATED IN PANTRY'S SHALL BE GFI TYPE U.O.N.
17. ALL COMPUTER PC RECEPTACLES SHALL BE GREY U.O.N.
18. NO MC CABLE SHALL BE RUN IN THE BUILDING MECHANICAL / ELECTRICAL ROOM. EMT ONLY SHALL BE RUN IN THESE SPACES.

KEY NOTES

1. WALL MOUNTED JUNCTION BOX FOR CARD READER. CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT AS REQUIRED BY SECURITY VENDOR. CONTRACTOR SHALL COORDINATE LOCATION WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
2. 2+2 BASE FEED CONNECTION TO SYSTEMS FURNITURE. POWER AND VOICE/DATA CONNECTIONS SHALL BE MADE THRU SEPARATE JUNCTION BOXES. POWER CONNECTION SHALL BE 10-WIRE/4-CIRCUIT IN A 2+2 CONFIGURATION. CONNECT TO TWO (2) 2-POLE 20 AMP CIRCUIT BREAKERS AS SHOWN PER NEC 2011 ARTICLE 605.6/605.7. PROVIDE HARDWIRE CONNECTION TO SYSTEM FURNITURE MANUFACTURER SUPPLIED UL LISTED FURNITURE WHIPS. COORDINATE WITH SYSTEMS FURNITURE MANUFACTURER'S INSTALLATION REQUIREMENTS. VOICE/DATA JUNCTION BOX SHALL HAVE ONE 2" CONDUIT ROUTED TO ABOVE ACCESSIBLE CEILING IN TENANT SPACE FOR VOICE/DATA CABLING. 2+2 SYSTEMS FURNITURE FEED FOR UP TO 8 STATIONS. DESIGN ASSUMES 1 GENERAL AND 1 COMPUTER CIRCUIT AT EACH STATION. CONTRACTOR TO MAKE FINAL POWER CONNECTIONS ONCE SYSTEMS FURNITURE IS INSTALLED.
3. PROPOSED NEW LOCATION OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SHEET E-601.
4. FLOOR MOUNTED WIREMOLD EVOLUTION 6AT POKE THRU (OR APPROVED EQUAL). CONTRACTOR TO COORDINATE DEVICE TYPE AND BOX POWER/DATA CONFIGURATION WITH ARCHITECT, DATA VENDOR PRIOR TO PURCHASE AND INSTALLATION. COORDINATE WITH BUILDING MANAGEMENT AND STANDARDS FOR CORE DRILLING AND SLAB X-RAY. REFER TO ARCHITECT FOR POKE THRU'S EXACT LOCATION. CONTRACTOR SHALL PROVIDE ONE (1) 3/4" CONDUIT FOR POWER AND ONE (1) 2" CONDUIT FOR AV AND IT. CONDUIT SHALL BE ROUTED TO NEAREST AVAILABLE WALL.
5. GROUND BAR LOCATION. REFER TO SHEET E-501.
6. DEDICATED DUPLEX RECEPTACLE NEMA 5-20R FOR IT DEVICES. CONTRACTOR TO VERIFY NEMA CONFIGURATION OF RECEPTACLE PER MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION.
7. LOCATION OF EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED TO NEW ELECTRIC CLOSET 1115.

CIRCUITING NOTE

1. ALL 120V COMPUTER AND GENERAL RECEPTACLE CIRCUITS ON THIS PLAN SHALL HOMERUN TO EXISTING PANEL PT IN IT ROOM 1101 U.O.N.
2. ALL 120V COPIERS, PRINTERS, FAXES, PANTRY DEVICES CIRCUITS ON THIS PLAN SHALL HOMERUN TO EXISTING PANEL P11 IN THE ELECTRICAL ROOM U.O.N.

CIRCUIT LEGEND

SWITCH DESIGNATION — 20 / OS / 23
- OCCUPANCY COVERAGE
- CIRCUIT DESIGNATION
- REFER TO OC DETAIL ON DRAWING E-501.

SWITCH LETTER DESIGNATION — 1 / 16
- CIRCUIT DESIGNATION

21 — CIRCUIT DESIGNATION

12(D) — INDICATES DEDICATED CIRCUIT

INDICATES GENERAL POWER CIRCUITS — 34/10 / T C / 14,16/3,5 / J
- INDICATES DEDICATED COMPUTER CIRCUIT(S)

14,16 / J — INDICATES DEDICATED CIRCUIT(S)

HC-1 — INDICATES VAV CIRCUIT
13/1/20 — INDICATES DISCONNECT SIZE

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7102FAX WWW.MORGANMICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
1	DIRECTIVE # 2	09.21.17
	FOR CONSTRUCTION	09.07.17
	PERMIT REVISION	08.10.17
	ISSUE FOR BID	07.21.17
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME
JOB NUMBER 11096-011

ELECTRICAL 11TH FLOOR POWER PLAN

E211

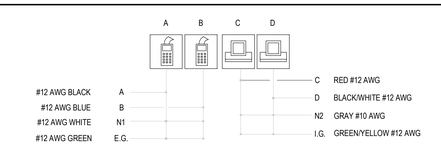
Plotted By: Shannon Strong | 9/21/17 | 2:28 PM

ARL: K:\96\18808728\E-11th Floor Power Plan

ARLINGTON VIRGINIA
Approved: 10/27/2017

LIGHTING FIXTURE SCHEDULE

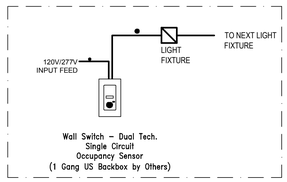
FIXTURE TYPE		MANUFACTURER	DESCRIPTION	CATALOG NO.	LAMPS NO.	LAMPS TYPE	VOLTS	BALLAST	MOUNTING	REMARKS
	A	PHILIPS LIGHTING	2'x2'	9422-D2-ST-L-B-36-S-1-2-E	1	45W LED	277V	0-10V DIMMING	-	-
	B1	SPECTRUM LIGHTING	4" RECESSED DOWNLIGHT	SGE4SQLEDD80S-20L-35-DS10-1-CA0244OS-MW	1	25W LED	277V	0-10V DIMMING	-	-
	B2	SPECTRUM LIGHTING	4" RECESSED DOWNLIGHT	SGE4SQLEDD80S-20L-35-DS10-1-CA0244OS-MW	1	25W LED	277V	0-10V DIMMING	-	-
	C	EUREKA LIGHTING	36" CIRCLE SUSPENSION LIGHT	SEE ARCHITECT SPECIFICATIONS	1	40W LED	277V	0-10V DIMMING	-	-
	D	FEELUX LIGHTING	4' LED SHELF LIGHT	SEE ARCHITECT SPECIFICATIONS	1	3.5W/FT	277V	0-10V DIMMING	-	-
	F1	DESIGN WITHIN REACH	DECORATIVE PENDANT	SEE ARCHITECT SPECIFICATIONS	1	60W INCANDESCENT	120V	-	-	-
	F2	DESIGN WITHIN REACH	DECORATIVE PENDANT	SEE ARCHITECT SPECIFICATIONS	1	60W INCANDESCENT	120V	-	-	-
	F3	DESIGN WITHIN REACH	DECORATIVE PENDANT	SEE ARCHITECT SPECIFICATIONS	1	60W INCANDESCENT	120V	-	-	-
	G	FIFTH LIGHT	4.5" LED ACCENT LIGHT	LDA4A-2R-9-36	1	45W LED	277V	0-10V DIMMING	-	-
	H	OPTOLUM	NOOK LED	SEE ARCHITECT SPECIFICATIONS	1	10.4W/FT LED	120V	0-10V DIMMING	-	-



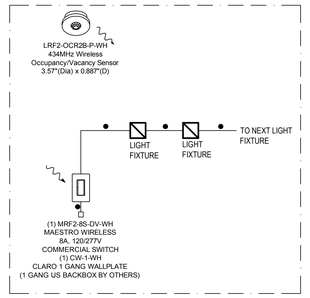
1 / E501 — 8 WIRE WHIP (2+2) CONNECTION DETAIL
SCALE : NONE

8 WIRE WHIP (2+2) CONNECTION DETAIL NOTES

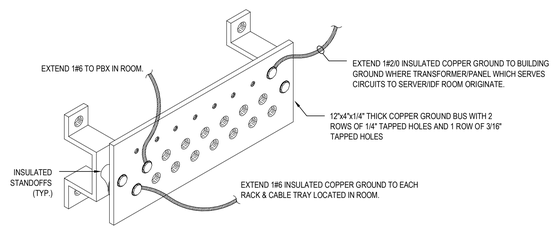
1. 2+2 - BASEFEED CONNECTION TO SYSTEMS FURNITURE. POWER AND VOICE/DATA CONNECTIONS SHALL BE MADE THROUGH SEPARATE JUNCTION BOXES. POWER CONNECTION SHALL BE 8-WIRE/4-CIRCUIT IN A 2+2 CONFIGURATION. CONNECT TO TWO (2) 2-POLE 20 AMP CIRCUIT BREAKERS AS SHOWN, PER NEC 2005 ARTICLE 605.6/605.7. PROVIDE HARDWIRE CONNECTION TO SYSTEMS FURNITURE MANUFACTURER SUPPLIED UL LISTED FURNITURE WHIPS. COORDINATE WITH SYSTEMS FURNITURE MANUFACTURER'S INSTALLATION REQUIREMENTS. VOICE/DATA JUNCTION BOX SHALL HAVE ONE 2"CONDUIT ROUTED TO ABOVE ACCESSIBLE CEILING IN TENANT SPACE FOR VOICE/DATA CABLING.
2. 2+2- SYSTEMS FURNITURE FEED FOR UP TO 8 STATIONS. DESIGN ASSUMES 2 GENERAL AND 1 COMPUTER CIRCUIT AT EACH STATION.



2 / E501 — LUTRON WALL SWITCH WITH OCCUPANCY SENSOR
SCALE: N.T.S.

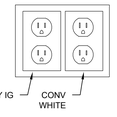


3 / E501 — LUTRON OCCUPANCY SENSOR WALL SWITCH DETAIL
SCALE: N.T.S.



4 / E501 — GROUND BAR DETAIL
SCALE : NONE

PROVIDE ONE DUPLEX RECEPTACLE FOR COMPUTER POWER (IG), MAX FOUR DUPLEX FOR PC CIRCUIT AND ONE DUPLEX FOR GENERAL USE POWER GANG UNDER ONE COMMON COVERPLATE. COMPUTER OUTLETS TO BE GREY OR AS DIRECTED. PROVIDE MAXIMUM 8 CONVENIENCE RECEPTACLES/CIRCUIT.



5 / E-501 — DOUBLE WIRED QUAD
SCALE : NONE

ELECTRICAL ENERGY CERTIFICATION FORM

ARLINGTON VIRGINIA

Project Name: Insight Global

Street Address: 1001 19th St. N Arlington, VA 22209

Building type or space activity: Office

Complete Section A or Section B based on the standard and applicability. To determine applicability, see the scoping provisions of Section 2 of ASHRAE standards or Section C401 of VECC (VECC is IECC with Virginia amendments). All provisions are mandatory unless noted as prescriptive. PROVIDE LIGHTING CALCULATIONS USING COMCHECK. Print the COMCHECK lighting calculations in the full size permit submission drawing set.

SECTION B
Based on Virginia Energy Conservation Code 2012

INTERIOR LIGHTING CONTROL

☒ Lighting within dwelling units contain 75% or more of high-efficiency lamps in the permanently installed luminaires, other than low voltage lighting, C405.1 Exception.

☒ Each area enclosed by ceiling-height partitions has at least one manual control for lighting serving that area. Control location complies with C405.2.1.1.

☒ Light reduction to at least 50% is accomplished per C405.2.1.2, except as exempted, by means of:
- ☒ Controlling of all luminaires or lamps;
- ☐ Dual switching of alternate rows of luminaires, alternate luminaires or alternate lamps;
- ☐ Switching of middle lamp of luminaires independently of the outer lamps; or
- ☐ Switching each luminaire or each lamp.

☒ Each area that is required to have a manual control has also additional control. The additional control functions on:
- ☐ An automatic time switch control device, (C405.2.2.1).
- ☒ An occupancy sensor, (C405.2.2.2).
- ☐ A daylight zone control, (C405.2.2.3).

☐ Specific application controls are per C405.2.3.

ENERGY CONSUMPTION

☐ Buildings having individual dwelling units are provided with provisions to determine the electrical energy consumed by each tenant by separately metering individual dwelling units, (C405.7).

LIGHTING (Prescriptive)

☒ Total connected lighting power calculated under C405.5.1 is not greater than the interior power calculated under C405.5.2, (C405.5).

☒ Total connected interior lighting power is the sum of all interior lighting equipment (in watts) per C405.5.1.1 through C405.5.1.4, (C405.5.1).

☒ The line-voltage lighting track and plug-in busway are per C405.5.1.4.

☒ The interior lighting power is calculated utilizing C405.5.2 and Table C405.5.2(1) or Table C405.5.2(2).

☐ All exterior lighting other than low-voltage landscape lighting complies with section C405.6.1 and C405.6.2.

EXTERIOR LIGHTING CONTROL

☐ Lighting designated for dusk-to-down operation is controlled by an astronomical time switch or a photosensor, (C405.2.4).

☐ Lighting not designated for dusk-to-dawn operation is controlled by a combination of a photosensor and a time switch, or an astronomical time switch, (C405.2.4).

☐ All time switches retain programming and time settings during loss of power for a period of at least 10 hours, (C405.2.4).

TANDEM WIRING

☐ Fluorescent luminaires equipped with one, three or odd-numbered lamp configurations, that are recess-mounted within 10-feet center-to-center of each other are tandem wired, (C405.3-1).

☐ Fluorescent luminaires equipped with one, three or any other odd-numbered lamp configuration, that are pendant or surface-mounted within 1-foot edge-to-edge of each other are tandem wired, (C405.3 - 2).

☐ Internally illuminated exist signs do not exceed 5-watts per face, (C405.4).

CERTIFICATION

I further hereby certify that the project referenced herein complies with all the applicable requirements of ANSI/ASHRAE/IESNA Standard 90.1, 2010 – or - 2012 VECC.

Name: _____

Address: _____

Occupation: _____ Date: _____

Virginia Registered Design Professional Seal, Signature & Date

COMcheck Software Version 4.0.6.1
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title:
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Office	19895	0.90	17906
		Total Allowed Watts =	17906

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)
1-Office				
A: A: Other:	1	252	43	10836
B1: B1: Other:	1	7	25	175
B2: B2: Other:	1	13	25	325
C: C: Other:	1	1	40	40
D: D: Other:	1	40	4	140
F1: F1: Incandescent 60W:	1	1	60	60
F2: F2: Incandescent 60W:	1	1	60	60
F3: F3: Incandescent 60W:	1	1	60	60
G: G: Other:	1	8	45	360
H: H: Other:	1	80	10	832
		Total Proposed Watts =		12888

Interior Lighting PASSES: Design 28% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design 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 4.0.6.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Report date: 06/21/17
Data filename: \\Arlington1\projects-amep\90\18808728\Excel\18808728 COMcheck.cck Page 1 of 6

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7162FAX WWW.MORGANBRICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME
JOB NUMBER 11096-011

ELECTRICAL DETAIL SHEET

E501

Plotted By: Shannon Strong | 6/28/17 | 2:17 PM

ARL: K:\90\18808728\E-Details

EXISTING PANELBOARD SCHEDULE — HL10

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
277/ 480	3	4	400	0	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	EX 45KVA XFMR	O	EX	EX	70A	3	0	A	0	3	60A	-	-	-	SPARE	2
3	SERVING P10	-	-	-			0	B	0			-	-	-		4
5		-	-	-			0	C	0			-	-	-		6
7	EX LOAD	M	EX	EX	60A	3	2500	A	2500	3	60A	EX	EX	M	EX LOAD	8
9		-	-	-			2500	B	2500			-	-	-		10
11		-	-	-			2500	C	2500			-	-	-		12
13	EX LOAD	M	EX	EX	60A	3	2500	A	2500	3	60A	EX	EX	M	EX LOAD	14
15		-	-	-			2500	B	2500			-	-	-		16
17		-	-	-			2500	C	2500			-	-	-		18
19	EX LOAD	M	EX	EX	20A	3	667	A	1500	3	20A	EX	EX	M	EX LOAD	20
21		-	-	-			667	B	1500			-	-	-		22
23		-	-	-			667	C	1500			-	-	-		24
25	SPARE	-	-	-	20A	1	0	A	2800	1	20A	EX	EX	L	EX LIGHTS	26
27	SPARE	-	-	-	20A	1	0	B	2500	1	20A	EX	EX	L	EX LIGHTS	28
29	EX LIGHTS	L	EX	EX	20A	1	1500	C	1500	1	20A	EX	EX	L	EX LIGHTS	30
31	SPARE	-	-	-	20A	1	0	A	2500	1	20A	EX	EX	L	EX LIGHTS	32
33	SPARE	-	-	-	20A	1	0	B	2500	1	20A	EX	EX	L	EX LIGHTS	34
35	SPARE	-	-	-	20A	1	0	C	1500	1	20A	EX	EX	L	EX LIGHTS	36
37	SPARE	-	-	-	20A	1	0	A	2500	1	20A	EX	EX	L	EX LIGHTS	38
39	NEW IWH	M	#8	1"	50A+	1	10000	B	2600	1	20A	EX	EX	L	EX LIGHTS	40
41	NEW LIGHTING	L	#12	3/4"	20A	1	2500	C	1000	1	20A	EX	EX	L	EX LIGHTS	42

	A	B	C	TOTAL
CONNECTED LOAD (VA)	19967	29767	20167	69901

TYPE	LOAD (VA)	SUBLOADS (VA) P10	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	23400	0	-	-	-	-	-	23400	125%	29250	
RECEPTACLES	0	6620	-	-	-	-	-	6620	*	6620	
MECH EQUIP	46501	0	-	-	-	-	-	46501	100%	46501	
KITCHEN EQ	0	0	-	-	-	-	-	0	100%	0	**
# OF KITCH EQ	0	0	-	-	-	-	-	0			
EXISTING	0	1500	-	-	-	-	-	1500	125%	1875	
OTHER	0	1000	-	-	-	-	-	1000	100%	1000	

CONNECTED TOTAL (VA) 79021 — 85246 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 95.05 — 102.54 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 79021
DEMAND AMPACITY (A) 95.05

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISTING PANELBOARD SCHEDULE — P10

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
120 208	3	4	225	0	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	1006 PRINTERS	R	-	-	20A	1	800	A	0	1	-	-	-	-	SPACE	2
3	1008 PRINTER	R	-	-	20A	1	400	B	0	1	20A	-	-	-	SPARE	4
5	EX	R	-	-	20A	E	1000	C	0	1	20A	-	-	-	SPARE	6
7	1009 GEN REC	R	-	-	20A	1	540	A	0	1	20A	-	-	-	SPARE	8
9	PC REC	R	-	-	20A	1	800	B	0	1	20A	-	-	-	SPARE	10
11	GEN REC	R	-	-	20A	1	1080	C	0	1	20A	-	-	-	SPARE	12
13	PC REC	R	-	-	20A	1	400	A	0	1	20A	-	-	-	SPARE	14
15	1012 CONF REC	R	-	-	20A	1	600	B	700	E	20A	EX	EX	-	EX	16
17	1012 GEN REC	R	-	-	20A	1	360	C	0	1	20A	-	-	-	SPARE	18
19	1014 CONF REC	R	-	-	20A	1	600	A	0	1	20A	-	-	-	SPARE	20
21	1014 GEN REC	R	-	-	20A	1	360	B	0	1	20A	-	-	-	SPARE	22
23	DISPOSAL	O	-	-	20A	1	1000	C	0	1	20A	-	-	-	SPARE	24
25	GALLEY REC	R	-	-	20A	1	500	A	0	1	20A	-	-	-	SPARE	26
27	GALLEY REC	R	-	-	20A	1	180	B	600	E	20A	EX	EX	-	EX	28
29	DISHWASHER	-	-	-	20A	1	1000	C	0	1	20A	-	-	-	SPARE	30
31	SPARE	-	-	-	30A	2	0	A	0	1	20A	-	-	-	SPARE	32
33		-	-	-			0	B	0	1	20A	-	-	-	SPARE	34
35	SPARE	-	-	-	20A	1	0	C	0	2	20A	-	-	-	SPARE	36
37	SPARE	-	-	-	20A	1	0	A	0			-	-	-		38
39	SPARE	-	-	-	20A	1	0	B	0	2	20A	-	-	-	SPARE	40
41	SPARE	-	-	-	20A	1	0	C	0			-	-	-		42

	A	B	C	TOTAL
CONNECTED LOAD (VA)	2840	3640	4440	10920

TYPE	LOAD (VA)	SUBLOADS (VA) P10-1	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	0	0	-	-	-	-	-	0	125%	0	
RECEPTACLES	6620	0	-	-	-	-	-	6620	*	6620	
MECH EQUIP	0	0	-	-	-	-	-	0	100%	0	
KITCHEN EQ	0	0	-	-	-	-	-	0	100%	0	**
# OF KITCH EQ	0	0	-	-	-	-	-	0			
EXISTING	0	1500	-	-	-	-	-	1500	125%	1875	
OTHER	1000	0	-	-	-	-	-	1000	100%	1000	

CONNECTED TOTAL (VA) 9120 — 9495 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 25.31 — 26.36 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 9120
DEMAND AMPACITY (A) 25.31

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISTING PANELBOARD SCHEDULE — P10-1

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
120 208	3	4	0	150	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	2
3	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	4
5	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	6
7	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	8
9	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	10
11	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	12
13	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	14
15	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	16
17	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	18
19	EX EM	E	EX	EX	20A	1	500	A	0	1	20A	-	-	-	SPARE	20
21	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	22
23	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	24
25	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	26
27	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	28
29	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	30
31	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	32
33	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	34
35	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	36
37	SPARE	-	-	-	100A	3	0	A	0	1	20A	-	-	-	SPARE	38
39		-	-	-			0	B	500	1	20A	EX	EX	E	EX EM	40
41		-	-	-			0	C	500	1	20A	EX	EX	E	EX EM	42

	A	B	C	TOTAL
CONNECTED LOAD (VA)	500	500	500	1500

TYPE	LOAD (VA)	SUBLOADS (VA) PNL	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	0	-	-	-	-	-	-	0	125%	0	
RECEPTACLES	0	-	-	-	-	-	-	0	*	0	
MECH EQUIP	0	-	-	-	-	-	-	0	100%	0	
KITCHEN EQ	0	-	-	-	-	-	-	0	100%	0	**
# OF KITCH EQ	0	-	-	-	-	-	-	0			
EXISTING	1500	-	-	-	-	-	-	1500	125%	1875	
OTHER	0	-	-	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 1500 — 1875 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 4.16 — 5.20 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 1500
DEMAND AMPACITY (A) 4.16

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISTING PANELBOARD SCHEDULE — HL11

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
277/ 480	3	4	400	0	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	EX 45KVA XFMR	O	EX	EX	70A	3	0	A	1550	1	20A	3/4"	#12	L	NEW LIGHTS	2
3	SERVING P11	-	-	-			0	B	1300	1	20A	3/4"	#12	L	NEW LIGHTS	4
5		-	-	-			0	C	1450	1	20A	3/4"	#12	L	NEW LIGHTS	6
7	EX LIGHTS	L	EX	EX	20A	1	2800	A	1500	1	20A	3/4"	#12	L	NEW LIGHTS	8
9	EX LIGHTS	L	EX	EX	20A	1	3000	B	1400	1	20A	3/4"	#12	L	NEW LIGHTS	10
11	EX LIGHTS	L	EX	EX	20A	1	3200	C	2000	1	20A	3/4"	#12	L	NEW LIGHTS	12
13	EX LIGHTS	L	EX	EX	20A	1	3200	A	2000	1	20A	EX	EX	-	EX LOAD	14
15	EX LIGHTS	L	EX	EX	20A	1	300	B	2500	1	20A	EX	EX	-	EX LOAD	16
17	EX LIGHTS	L	EX	EX	20A	1	300	C	2800	1	20A	EX	EX	-	EX LOAD	18
19	EX LOAD	M	EX	EX	100A	3	20000	A	1666	3	20A	EX	EX	-	EX LOAD	20
21		-	-	-			20000	B	1666			-	-	-		22
23		-	-	-			20000	C	1666			-	-	-		24
25	EX VAV	M	EX	EX	60A	3	12000	A	4000	3	60A	EX	EX	-	EX	26
27		-	-	-			12000	B	4000			-	-	-		28
29		-	-	-			12000	C	3430			-	-	-		30
31	EX LOAD	M	EX	EX	60A	3	3264	A	3430	3	60A	EX	EX	-	EX	32
33		-	-	-			3264	B	3430			-	-	-		34
35		-	-	-			3264	C	3430			-	-	-		36
37	EX LOAD	M	EX	EX	60A	3	4000	A	0	1	20A	EX	EX	-	EX	38
39		-	-	-			4000	B	0	1	20A	EX	EX	-	EX	40
41		-	-	-			4000	C	0	1	20A	EX	EX	-	EX	42

	A	B	C	TOTAL
CONNECTED LOAD (VA)	59410	56860	57540	173810

TYPE	LOAD (VA)	SUBLOADS (VA) H11-1	P11	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	22000	0	1000	-	-	-	-	23000	125%	28750	
RECEPTACLES	0	0	37180	-	-	-	-	37180	*	23590	
MECH EQUIP	117792	16000	0	-	-	-	-	133792	100%	133792	
KITCHEN EQ	0	0	4800	-	-	-	-	4800	70%	3360	**
# OF KITCH EQ	0	0	5	-	-	-	-	5			
EXISTING	0	0	6000	-	-	-	-	6000	125%	7500	
OTHER	0	0	0	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 204772 — 196992 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 246.30 — 236.94 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 189742
DEMAND AMPACITY (A) 228.22

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISTING PANELBOARD SCHEDULE — HL11-1

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
277/ 480	3	4	0	100	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	EX 45KVA XFMR	O	EX	EX	70A	3	0	A	0	1	20A	-	-	-	SPARE	2
3	SERVING P11-2	-	-	-			0	B	0	1	20A	-	-	-	SPARE	4
5		-	-	-			0	C	0	1	20A	-	-	-	SPARE	6
7	NEW DWH-1	M	#12	3/4"	20A	1	4000	A	4000	3	20A	EX	EX	M	EX	8
9	SPARE	-	-	-	20A	1	0	B	4000			-	-	-		10
11	SPARE	-	-	-	20A	1	0	C	4000			-	-	-		12
13	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	14
15	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	16
17	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	18
19	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	20
21	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	22
23	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	24
25	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	26
27	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	28
29	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	30

	A	B	C	TOTAL
CONNECTED LOAD (VA)	8000	4000	4000	16000

TYPE	LOAD (VA)	SUBLOADS (VA) P11-2	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	0	0	-	-	-	-	-	0	125%	0	
RECEPTACLES	0	0	-	-	-	-	-	0	*	0	
MECH EQUIP	16000	0	-	-	-	-	-	16000	100%	16000	
KITCHEN EQ	0	0	-	-	-	-	-	0	100%	0	**
# OF KITCH EQ	0	0	-	-	-	-	-	0			
EXISTING	0	0	-	-	-	-	-	0	125%	0	
OTHER	0	0	-	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 16000 — 16000 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 19.25 — 19.25 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 16000
DEMAND AMPACITY (A) 19.25

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISTING PANELBOARD SCHEDULE — P11

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
120 208	3	4	225	0	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	NEW LIGHTS	L	#12	3/4"	20A	1	1000	A	0	1	20A	-	-	-	SPARE	2
3	NEMA 5-20R	R	#12	3/4"	20A	1	1200	B	0	1	20A	-	-	-	SPARE	4
5	NEMA 5-20R	R	#12	3/4"	20A	1	1200	C	0	1	20A	-	-	-	SPARE	6
7	NEMA 5-20R	R	#12	3/4"	20A	1	1200	A	0	1	20A	-	-	-	SPARE	8
9	NEMA 5-20R	R	#12	3/4"	20A	1	1200	B	0	1	20A	-	-	-	SPARE	10
11	NEMA 5-20R	R	#12	3/4"	20A	1	1200	C	0	1	20A	-	-	-	SPARE	12
13	IT ROOM	R	#12	3/4"	20A	1	800	A	0	1	20A	-	-	-	SPARE	14
15	COPIER	R	#12	3/4"	20A	1	900	B	0	1	20A	-	-	-	SPARE	16
17	COPIER	R	#12	3/4"	20A	1	900	C	0	1	20A	-	-	-	SPARE	18
19	COPIER	R	#12	3/4"	20A	1	900	A	0	1	20A	-	-	-	SPARE	20
21	COPIER	R	#12	3/4"	20A	1	900	B	0	1	20A	-	-	-	SPARE	22
23	SPARE	-	-	-	20A	1	0	C	1000	3	30A	-	-	E	EX	24
25	EX	E	-	-	30A	3	1000	A	1000			-	-	-		26
27		-	-	-			1000	B	1000			-	-	-		28
29		-	-	-			1000	C	0	1	20A	-	-	-	SPARE	30
31	SPARE	-	-	-	20A	1	0	A	0	1	20A	-	-	-	SPARE	32
33	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	34
35	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	36
37	SPARE	-	-	-	60A	3	0	A	0	1	20A	-	-	-	SPARE	38
39		-	-	-			0	B	0	1	20A	-	-	-	SPARE	40
41		-	-	-			0	C	0	1	-	-	-	-	SPACE	42

	A	B	C	TOTAL
CONNECTED LOAD (VA)	5900	6200	5300	17400

TYPE	LOAD (VA)	SUBLOADS (VA) P11-1	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	1000	0	-	-	-	-	-	1000	125%	1250	
RECEPTACLES	10400	26780	-	-	-	-	-	37180	*	23590	
MECH EQUIP	0	0	-	-	-	-	-	0	100%	0	
KITCHEN EQ	0	4800	-	-	-	-	-	4800	70%	3360	**
# OF KITCH EQ	0	5	-	-	-	-	-	5			
EXISTING	6000	0	-	-	-	-	-	6000	125%	7500	
OTHER	0	0	-	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 48980 — 35700 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 135.95 — 99.09 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 33950
DEMAND AMPACITY (A) 94.24

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISTING PANELBOARD SCHEDULE — P11-1

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
120 208	3	4	0	150	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	2
3	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	4
5	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	6
7	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	8
9	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	10
11	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	12
13	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	14
15	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	16
17	GEN REC	R	#12	3/4"	20A	1	720	C	800	1	20A	3/4"	#12	R	PC REC	18
19	GEN REC	R	#12	3/4"	20A	1	800	A	800	1	20A	3/4"	#12	R	GEN REC	20
21	STAIR LOBBY 6AT	R	#12	3/4"	20A	1	360	B	360	1	20A	3/4"	#12	R	STAIR LOBBY 6AT	22
23	CORRIDOR REC	R	#12	3/4"	20A	1	1440	C	400	1	20A	3/4"	#12	R	TV REC	24
25	REFRIGERATOR	K	#12	3/4"	20A	1	1000	A	1000	1	20A	3/4"	#12	K	MICROWAVE	26
27	DISHWASHER	K	#12	3/4"	20A	1	800	B	1000	1	20A	3/4"	#12	K	MICROWAVE	28
29	PANTRY REC	R	#12	3/4"	20A	1	180	C	1000	1	20A	3/4"	#12	K	REFRIGERATOR	30
31	LOBBY TV REC	R	#12	3/4"	20A	1	400	A	360	1	20A	3/4"	#12	R	PANTRY REC	32
33	CONVENIENCE	R	#12	3/4"	20A	1	720	B	0	1	20A	-	-	-	SPARE	34
35	GEN REC	R	#12	3/4"	20A	1	720	C	0	1	20A	-	-	-	SPARE	36
37	PC REC	R	#12	3/4"	20A	1	800	A	0	1	20A	-	-	-	SPARE	38
39	SPARE	-	-	-	20A	1	0	B	0	1	20A	-	-	-	SPARE	40
41	SPARE	-	-	-	20A	1	0	C	0	1	20A	-	-	-	SPARE	42

3

	A	B	C	TOTAL
CONNECTED LOAD (VA)	11880	9960	9740	31580

TYPE	LOAD (VA)	SUBLOADS (VA) PNL	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	0	-	-	-	-	-	-	0	125%	0	
RECEPTACLES	26780	-	-	-	-	-	-	26780	*	18390	
MECH EQUIP	0	-	-	-	-	-	-	0	100%	0	
KITCHEN EQ	4800	-	-	-	-	-	-	4800	70%	3360	**
# OF KITCH EQ	5	-	-	-	-	-	-	5			
EXISTING	0	-	-	-	-	-	-	0	125%	0	
OTHER	0	-	-	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 31580 — 21750 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 87.66 — 60.37 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 21750
DEMAND AMPACITY (A) 60.37

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISITING PANELBOARD SCHEDULE — PT (SEC1)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
120 208	3	4	300	-	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
1	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	2
3	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	4
5	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	6
7	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	8
9	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	10
11	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	12
13	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	14
15	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	16
17	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	18
19	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	20
21	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	22
23	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	24
25	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	26
27	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	28
29	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	30
31	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	32
33	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	34
35	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	36
37	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	38
39	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	40
41	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	42

	A	B	C	TOTAL
CONNECTED LOAD (VA)	15680	15680	15680	47040

TYPE	LOAD (VA)	SUBLOADS (VA) SEC2	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	0	0	-	-	-	-	-	0	125%	0	
RECEPTACLES	47040	47040	-	-	-	-	-	94080	*	52040	
MECH EQUIP	0	0	-	-	-	-	-	0	100%	0	
KITCHEN EQ	0	0	-	-	-	-	-	0	100%	0	**
# OF KITCH EQ	0	0	-	-	-	-	-	0			
EXISTING	0	0	-	-	-	-	-	0	125%	0	
OTHER	0	0	-	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 94080 — 52040 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 261.14 — 144.45 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 52040
DEMAND AMPACITY (A) 144.45

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB

EXISITING PANELBOARD SCHEDULE — PT (SEC2)

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING	MANUFAC.	MDL #	DWG REF
120 208	3	4	300	-	-	-	-	-	E-??

TYPE LEGEND				REMARKS
L	LIGHTING	K	KITCHEN EQ	PROVIDE EQUIPMENT GROUND BUS
R	RECEPTACLES	E	EXISTING	PROVIDE FEED THRU AND/OR SUB FEED LUGS FOR MULTI-SECTION PANELS
M	MECH EQUIP	O	OTHER	-

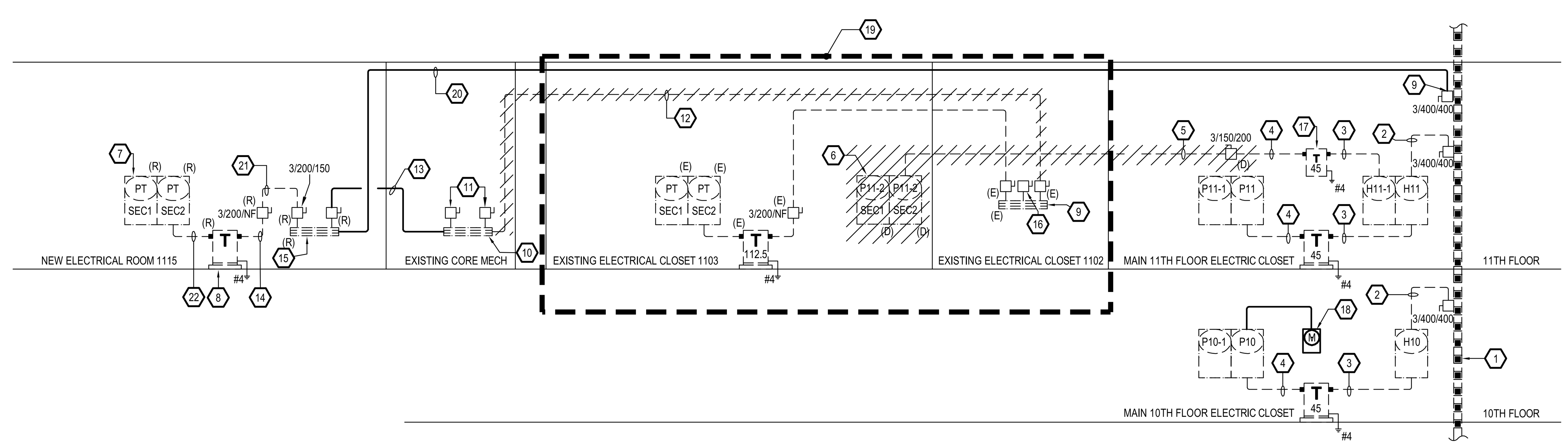
CKT. #	ITEM SERVED	TYPE	WIRE	CONDUIT	CKT. BRK TRIP	P	LOAD (VA)	PHASE	LOAD (VA)	P	CKT. BRK TRIP	CONDUIT	WIRE	TYPE	ITEM SERVED	CKT. #
43	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	44
45	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	46
47	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	48
49	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	50
51	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	52
53	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	54
55	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	56
57	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	58
59	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	60
61	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	62
63	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	64
65	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	66
67	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	68
69	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	70
71	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	72
73	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	74
75	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	76
77	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	78
79	GEN REC	R	#12	3/4"	20A	1	1440	A	800	1	20A	3/4"	#12	R	PC REC	80
81	GEN REC	R	#12	3/4"	20A	1	1440	B	800	1	20A	3/4"	#12	R	PC REC	82
83	GEN REC	R	#12	3/4"	20A	1	1440	C	800	1	20A	3/4"	#12	R	PC REC	84

	A	B	C	TOTAL
CONNECTED LOAD (VA)	15680	15680	15680	47040

TYPE	LOAD (VA)	SUBLOADS (VA) PNL	PNL	PNL	PNL	PNL	PNL	CONN LD(VA)	SIZING FACTOR	SIZING LD (VA)	
LIGHTING	0	-	-	-	-	-	-	0	125%	0	
RECEPTACLES	47040	-	-	-	-	-	-	47040	*	28520	
MECH EQUIP	0	-	-	-	-	-	-	0	100%	0	
KITCHEN EQ	0	-	-	-	-	-	-	0	100%	0	**
# OF KITCH EQ	0	-	-	-	-	-	-	0			
EXISTING	0	-	-	-	-	-	-	0	125%	0	
OTHER	0	-	-	-	-	-	-	0	100%	0	

CONNECTED TOTAL (VA) 47040 — 28520 SIZING TOTAL (VA)
CONNECTED AMPACITY (A) 130.57 — 79.16 SIZING AMPACITY (A)
DEMAND TOTAL (VA) 28520
DEMAND AMPACITY (A) 79.16

NOTES
* 1ST 10KVA @ 100%, REMAINING @ 50%
** SIZE. FAC. IN ACCORDANCE TO NEC 220-20
*** NON-SIMULTANEOUS LOAD
+ PROVIDE NEW CB
++ PROVIDE SHUNT TRIP CB



KEY NOTES

1. EXISTING 4000A, 277/480V, 3Ø, 4W BUS-DUCT.
2. EXISTING 2 SETS OF 4#3/0 + 1#2 GROUND IN 2" CONDUIT.
3. EXISTING 3#4 + 1#8 GROUND IN 1" CONDUIT.
4. EXISTING 4#1/0 + 1#6 GROUND IN 1-1/2" CONDUIT.
5. REMOVE EXISTING 5#2/0 + 1#6 GROUND IN 2-1/2" CONDUIT.
6. REMOVE EXISTING TWO SECTION PANEL P11-2. CONTRACTOR SHALL REMOVE RELATED FEEDER AND RETURN PANEL TO LANDLORD.
7. RELOCATE EXISTING TWO SECTION PANEL PT, 120/208V, 3Ø, 300A MCB TO NEW ELECTRICAL ROOM 1115. CONTRACTOR SHALL EXTEND RELATED FEEDER AND COORDINATE WITH IT ROOM DESIGNER ON PANEL LOCATION.
8. RELOCATE EXISTING 112.5 KVA TRANSFORMER TO NEW ELECTRICAL ROOM 1115.
9. REMOVE EXISTING 4#4/0 +1#2 GROUND IN 2-1/2" CONDUIT PREVIOUSLY SERVING WIRE TROUGH .
10. EXISTING WIRE TROUGH TO REMAIN.
11. EXISTING DISCONNECT SWITCHES FOR HVAC EQUIPMENT TO REMAIN.
12. REMOVE EXISTING 4#3/0 + 1#2 GROUND IN 2" CONDUIT.
13. NEW 4#3/0 + 1#2 GROUND IN 2" CONDUIT, CONNECT TO EXISTING FEEDER FROM RELOCATED DISCONNECT SWITCH..
14. NEW 3#2/0 + 1#6 GROUND IN 2-1/2" CONDUIT.
15. NEW 400A WIRE TROUGH NEW ELECTRIC ROOM 1115.
16. REMOVE EXISTING 2/100/60 DISCONNECT SERVING UPS.
17. LEAVE EXISTING 45 KVA TRANSFORMER AS SPARE.
18. NEW 100A, 3 PHASE QUADLOGIC METER. CONNECT SUB-METER TO THE 14 LOW VOLTAGE CIRCUITS SERVING TENANT SPACE.
19. ALL DEVICES NOT MARKED FOR DEMOLITION TO BE RELOCATED FROM EXISTING ELECTRICAL CLOSETS 1102 AND 1103, LOCATION INDICATED BY KEY NOTE #7 ON SHEET E-211, TO NEW ELECTRICAL ROOM 1115.
20. NEW 4#4/0 +1#2 GROUND IN 2-1/2" CONDUIT. CONNECT TO RELOCATED WIRE TROUGH
21. NEW 4#1/0 + 1#6 GROUND IN 1-1/2" CONDUIT.
22. 4#4/0 +1#2 GROUND IN 2-1/2" CONDUIT PREVIOUSLY SERVING WIRE TROUGH .

ARLINGTON VIRGINIA
Approved: 10/27/2017

131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
3	DIRECTIVE # 2	09.21.17
	FOR CONSTRUCTION	09.07.17
	PERMIT REVISION	08.10.17
	ISSUE FOR BID	07.21.17
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS
COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME	
JOB NUMBER	11096-011

ELECTRICAL RISER DIAGRAM AND SCHEDULE SHEET

E601

Plotted By: Shannon Strong | 9/21/17 | 2:28 PM

ARL: K:\90\18808728\E-Riser

GHT LIMITED
CONSULTING ENGINEERS

1110 North Glebe Road, Ste 300
Arlington, Virginia 22201

P 703.243.1200
F 703.276.1376

ARLINGTON VIRGINIA
Approved: 10/27/2017

July 20, 2017

Craig Williams
Electrical Plan Reviewer
Arlington County
2100 Clarendon Boulevard
Arlington, VA 22201

RE: 1001 19th Street – Insight Global
Permit Comment Response
GHT project # 18808728
Permit # B1701636
Project ID # CTBO-3890

Dear Craig:

GHT acknowledges receipt of the permit comments for the above referenced project and have the following responses for electrical items:

1. On the electrical riser diagram shown on sheet E601, note 8, under the 'Key Notes', references an existing 112.5kva transformer being relocated to new 'IT Room'. However, the electrical floor plan shown on sheet E211 shows the 112.5kva transformer located in 'Electrical Room 1115'. Please clarify. Section 109.3 of the Virginia Construction Code.

   GHT Response: Sheet E601 updated to reflect correct room name.

2. The electrical riser diagram shown on sheet E601, note 7, under 'Key Notes', indicates relocating panel board 'PT' to the new 'IT Room'. However, the electrical floor plan shown on sheet E211, shows this panel board being located in 'Electrical Room 1115'. Please clarify. Section 109.3 of the Virginia Construction Code.

   GHT Response: Sheet E601 updated to show correct room name.

3. Based on the lack of information provided, the above comments may not constitute a complete list of requested information. Additional design information is required for the county to review for code compliance. Section 109.3 of the Virginia Construction Code.

   GHT Response: Please notify engineer of any additional comments after second review.

4. As a follow up to the previous comment, the electrical riser diagram shown on sheet E601, does not show any area identified as an 'IT Room', with or without electrical equipment. Please clarify. Section 109.3 of the Virginia Construction Code.

   GHT Response: Sheet E601 updated to show correct room name.

Please contact me should you have any questions on this project.

Very truly yours,

GHT Limited

Laura Morder, PE
Associate

EXISTING FIRE ALARM SYSTEM GENERAL NOTES

1. CONTRACTOR SHALL INSTALL NEW OR RELOCATE EXISTING FIRE SYSTEM EQUIPMENT:
   A. FLOOR PLAN CORE AREAS FIRE ALARM DEVICES SHOWN DASHED AND/OR WITH SUBSCRIPT LETTER "E" INDICATES EXISTING EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
   B. TENANT AREA PLANS SHOW NEW EQUIPMENT LOCATIONS ONLY - ALL EXISTING FIRE ALARM EQUIPMENT IN THESE AREAS ARE TO BE RELOCATED UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE REQUIRED TO PUT THE FIRE ALARM SYSTEM INTO FIRST CLASS WORKING ORDER, IN THE AREA OR WORK INCLUDING THE FOLLOWING:
   A. ALL NEW FIRE SYSTEM EQUIPMENT IN TENANT AREAS.
   B. ALL EXISTING TO REMAIN PULL STATIONS, VISUAL ALARM DEVICES, AUDIBLE ALARM DEVICES AND SMOKE/HEAT DETECTORS SHALL BE TESTED AND PUT IN GOOD WORKING ORDER.
   C. ALL EXISTING AC UNIT DUCT SMOKE DETECTORS SHALL BE TESTED TO INSURE PROPER OPERATION FOR ALARM AND UNIT SHUT-DOWN.
3. CONTRACTOR SHALL VERIFY ENTIRE FIRE ALARM SYSTEM, INCLUDING ANNUNCIATION AND MAIN FIRE ALARM EQUIPMENT IS OPERATING IN GOOD WORKING CONDITION FOR ALL ALARM AND TROUBLE SIGNALS ASSOCIATED WITH THIS AREA.
4. CONTRACTOR SHALL PROTECT THE EXISTING BUILDING SMOKE/FIRE DETECTION SYSTEM AS REQUIRED TO PREVENT FALSE ALARMS DUE TO CONSTRUCTION.
5. ENTIRE BUILDING IS EQUIPPED WITH SPRINKLERS.
6. ALL FIRE ALARM EQUIPMENT SHALL REMAIN OPERATIONAL AND IN PLACE AS THE BUILD OUT OCCURS.
7. IF THE CONSTRUCTION REQUIRES INTERRUPTION OF THE BUILDING FIRE ALARM SYSTEM, OBTAIN WRITTEN PERMISSION FROM THE BUILDING OWNER PRIOR TO THE INTERRUPTION. THE CONTRACTOR SHALL FOLLOW ALL RULES AND REGULATIONS PROVIDED BY THE BUILDING OWNER AND ALL CODE REQUIREMENTS FOR A FIRE ALARM INTERRUPTION.
8. FINAL CONNECTION TO BUILDING FIRE ALARM SYSTEM SHALL BE PERFORMED BY BASE BUILDING OWNER RECOMMENDED FIRE ALARM CONTRACTOR BUT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR
9. CONTRACTOR SHALL PROVIDE A SEPARATE AND COMPLETE FIRE ALARM SHOP DRAWING PACKAGE TO THE AHJ AND OBTAIN APPROVAL PRIOR TO ANY WORKFIRE ALARM DEVICES INDICATED ARE INTENDED TO SHOW DESIGN INTENT ONLY. MODIFICATIONS TO EXISTING BASE BUILDING FIRE ALARM CONTROL PANEL, BATTERIES, ANNUNCIATOR PANEL, ETC., SHALL BE INDICATED WITHIN FIRE ALARM SUBMITTALS PREPARED BY MANUFACTURER.
10. MATCH NEW FIRE ALARM EQUIPMENT WITH EXISTING. PROVIDE RACEWAY AND CONDUCTOR TYPES, QUANTITIES AND SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11. CONNECT NEW FIRE ALARM STRIKING STATIONS, VISUAL ALARM DEVICES, AUDIBLE ALARM DEVICES, AND SMOKE/HEAT DETECTORS TO EXISTING FIRE ALARM EQUIPMENT ON FLOOR, REFER TO BASE BUILDING CONSTRUCTION DOCUMENTS FOR LOCATIONS OF EXISTING JUNCTION BOXES AND CONSTRUCTION METHODS.
12. CONTRACTOR SHALL PROVIDE NEW FIRE ALARM EQUIPMENT (PULL STATIONS, VISUAL ALARM DEVICES, AUDIBLE ALARM DEVICES AND SMOKE/HEAT DETECTORS, ETC.) TO MATCH EXISTING SYSTEMS REQUIREMENTS AND MAINTAIN SYSTEM UL LISTING.
13. ALL FIRE ALARM STROBE UNITS EITHER EXISTING OR NEW, OCCURRING IN AREA OF WORK SHALL CONFORM WITH THE AMERICANS WITH DISABILITIES ACT (ADA), UL, ANSI, AND NFPA STANDARDS. INSTALL UNITS WITH A MINIMUM 15 CANDELA AND MAXIMUM 110 CANDELA, AND SIMULTANEOUS FLASH RATE OF A MINIMUM OF 1 HZ TO A MAXIMUM OF 2 HZ. 15/75 CANDELA STROBES ARE NOT ACCEPTABLE. MOUNTING HEIGHT SHALL BE 80 INCHES AFF TO THE BOTTOM OF LENS OR 6 INCHES BELOW CEILING TO TOP OF LENS, WHICHEVER IS LOWER. REPLACE ALL EXISTING NON-COMPLIANT UNITS SHOWN ON PLAN WITH 15 CANDELA OR HIGHER STROBES AND VERIFY CIRCUIT CAPACITY INSTALL STROBES AS REQUIRED TO PROVIDE THE MINIMUM ILLUMINATION LEVEL REQUIRED BY THE STANDARDS REFERENCED ABOVE.
14. CONTRACTOR TO FIELD VERIFY EXISTING FIRE ALARM CONTROL PANEL AND DEVICE CIRCUIT AMPACITY FOR INSTALLATION OF ADA APPROVED FIRE STROBE UNITS.
15. THE CONTRACTOR SHALL REPLACE ALL EXISTING F.A. STROBE DEVICES WHICH ARE NOT ADA COMPLIANT AND PROVIDE NEW ADJUSTABLE SETTING ADA COMPLIANT STROBES. DO NOT REUSE EXISTING ADA STROBES WHICH DO NOT HAVE ADJUSTABLE SETTINGS UNLESS THE EXISTING ADA COMPLIANT STROBE FITS THE REQUIRED CANDELA RATING FOR THE NEW AREA BEING SERVED.
16. ALL RE-USED/ RELOCATED ADA STROBE DEVICES SHALL HAVE CANDELA RATINGS SET AND PROVIDED AS SHOWN ON THE DRAWINGS TO ACHIEVE COVERAGE FOR THE AREA SERVED. PROVIDE ADJUSTABLE CANDELA SETTINGS ON ALL NEW ADA COMPLIANT STROBE DEVICES.
17. CONTRACTOR SHALL RE-USE EXISTING FIRE ALARM DEVICES IF THE CANDELA RATINGS CAN BE ADJUSTED TO FIT NEW DESIGN AND IF THE EXISTING FIRE ALARM DEVICES CAN BE SYNCHRONIZED.
18. ALL FIRE ALARM STROBE DEVICES SHALL BE SYNCHRONIZED FOR SIMULTANEOUS FLASH WITH AREA OF WORK, AND ANY OTHER SPACES VISIBLE FROM THE AREA OF WORK.
19. CONTRACTOR SHALL REFER TO ARCHITECT FOR LOCATION OF SPEAKERS IN CEILINGS.
20. ALL CEILING MOUNTED AND WALL MOUNTED FIRE ALARM DEVICES ARE TO BE WHITE WITH RED LETTERING, EXCEPT FOR MANUAL STATIONS WHICH SHALL BE RED WITH WHITE LETTERING.
21. COORDINATE EXACT LOCATION OF ANY NEW FA CONTROL AND/OR FA GRAPHIC ANNUNCIATOR WITH TENANT AND DESIGN TEAM PRIOR TO ELECTRICAL ROUGH-IN.
22. COORDINATE ALL WORK WITH LOCAL AHJ.
23. PROVIDE SMOKE DETECTOR(S) MOUNTED IN RETURN TO AC FOR ALL UNITS 2,000 CFM OR MORE. SMOKE DETECTOR SHALL BE INTERCONNECTED TO AC UNIT AND BUILDING FIRE ALARM SYSTEM. UPON SMOKE DETECTOR SENSING SMOKE, AC UNIT SHALL BE DEACTIVATED AND AN ALARM SIGNAL SHALL BE SENT TO BUILDING FIRE ALARM SYSTEM.
24. SMOKE DETECTOR LOCATED AT CEILING TO CONTROL SMOKE DAMPER. INTERCONNECT SMOKE DETECTOR WITH BASE BUILDING FIRE ALARM SYSTEM FOR PROPER ALARM ACTIVATION, SUPERVISION AND ANNUNCIATION. INTERCONNECT SMOKE DETECTOR WITH SMOKE DAMPER RELAY TO CLOSE DAMPER UPON SENSING SMOKE. PROVIDE 120V, 1PH, 20A CONNECTION FROM BASE BUILDING EMERGENCY PANEL TO SMOKE DAMPER. PROVIDE ALL NECESSARY RELAYS FOR PROPER OPERATION OF SMOKE DAMPER.
25. FIRE SYSTEM SHALL CAUSE AUTOMATIC RELEASE OF ALL DOORS IN PROJECT WITH HOLD-OPEN HARDWARE AND ELECTRIC LOCKS UPON ANY SYSTEM ALARM.

ADD ALTERNATE NOTE

1. CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICE TO INSTALL ADDITIONAL BOOSTER PANEL WITH ALL NECESSARY INTERCONNECTIONS WITH BASE BUILDING FIRE ALARM SYSTEM AND NEW 120V, 1Ø, 20A EMERGENCY CIRCUIT TO SERVE BOOSTER PANEL.
2. CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICE TO PURCHASE AND INSTALL NEW FIRE ALARM DEVICES THAT ARE OUTSIDE THE OF AREA OF WORK BUT, ARE VISIBLE FROM THE AREA OF NEW WORK, THAT MUST BE SYNCHRONIZED FOR SIMULTANEOUS FLASH WITHIN AREA OF NEW WORK.

TENANT FIRE ALARM SYMBOLS LIST

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
H	AUTOMATIC HEAT DETECTOR	N/A
S	AUTOMATIC SMOKE DETECTOR - CEILING MOUNTED. "I" INDICATES IONIZATION AND "P" INDICATES PHOTOELECTRIC	N/A
S	AUTOMATIC DUCT MOUNTED SMOKE DETECTOR WITH AIR FLOW PROBE MOUNTED IN DUCTWORK - "S" INDICATES SUPPLY AND "R" INDICATES RETURN	N/A
F	FIRE ALARM MANUAL STATION	48" AFF UON
V V	FIRE ALARM ADA STROBE LIGHT - CEILING OR WALL MOUNTED SUBSCRIPT NDICATES CANDELA RATING	80" AFF UON
F F	COMBINATION AUDIO/VISUAL ADA STROBE DEVICE - FLUSH CEILING OR WALL MOUNT. SUBSCRIPT INDICATES CANDELA RATING	80" AFF UON
S S	FLUSH FIRE SYSTEM SPEAKER; FLUSH CEILING OR WALL MOUNT - COLOR WHITE	N/A
	FIREMEN'S PHONE - MOUNT IN FLUSH CABINET IN STAIRWAY WITH LABELING REQUIRED BY FIRE MARSHALL	54" AFF UON
J	JUNCTION BOX FOR TAMPER AND FLOW SWITCH - VERIFY EXACT LOCATION WITH SPRINKLER SYSTEM SUPPLIER	N/A
L	ELECTRIC DOOR LOCK - VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND HARDWARE SECTION OF SPECIFICATIONS.	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	N/A
FACP	FIRE ALARM CONTROL PANEL	N/A
A / FA-501	SECTION MARKER SHEET WHERE SECTION IS SHOWN	
1 / FA-501	DETAIL MARKER SHEET WHERE DETAIL IS SHOWN	

FIRE ALARM ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	KW	KILOWATT
AHJ	AUTHORITY HAVING JURISDICTION	M.C.B.	MAIN CIRCUIT BREAKER
A	AMP	M.H.	MOUNTING HEIGHT
C.B.	CIRCUIT BREAKER	M.L.O.	MAIN LUGS ONLY
C.	CONDUIT	N.E.C.	NATIONAL ELECTRIC CODE
D	DEDICATED	N.F.S.S.	NON-FUSED SAFETY SWITCH
EC	EMPTY CONDUIT	PNL	PANEL
EPO	EMERGENCY POWER OFF	PC	PERSONAL COMPUTER
E.W.C.	ELECTRIC WATER COOLER	Ø	PHASE
F.A.	FIRE ALARM	P	POLE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	REC.	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	RM.	ROOM
F.S.S.	FUSED SAFETY SWITCH	TYP.	TYPICAL
G.S.P.	GRAPHIC ANNUNCIATOR PANEL	U.O.N.	UNLESS OTHERWISE NOTED
G.F.I.	GROUND-FAULT INTERRUPTER	V	VOLT
HP	HORSEPOWER	W	WATT
H.W.HTR.	HOT WATER HEATER	WP.	WEATHERPROOF
I.G.	ISOLATED GROUND	XFMR	TRANSFORMER
J.B.	JUNCTION BOX		

NOTE:
THESE ARE STANDARD SYMBOLS AND ABBREVIATIONS, AND MAY NOT ALL APPEAR ON THE CONTRACT DRAWINGS.

FIRE ALARM DRAWING LIST

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANGRCK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

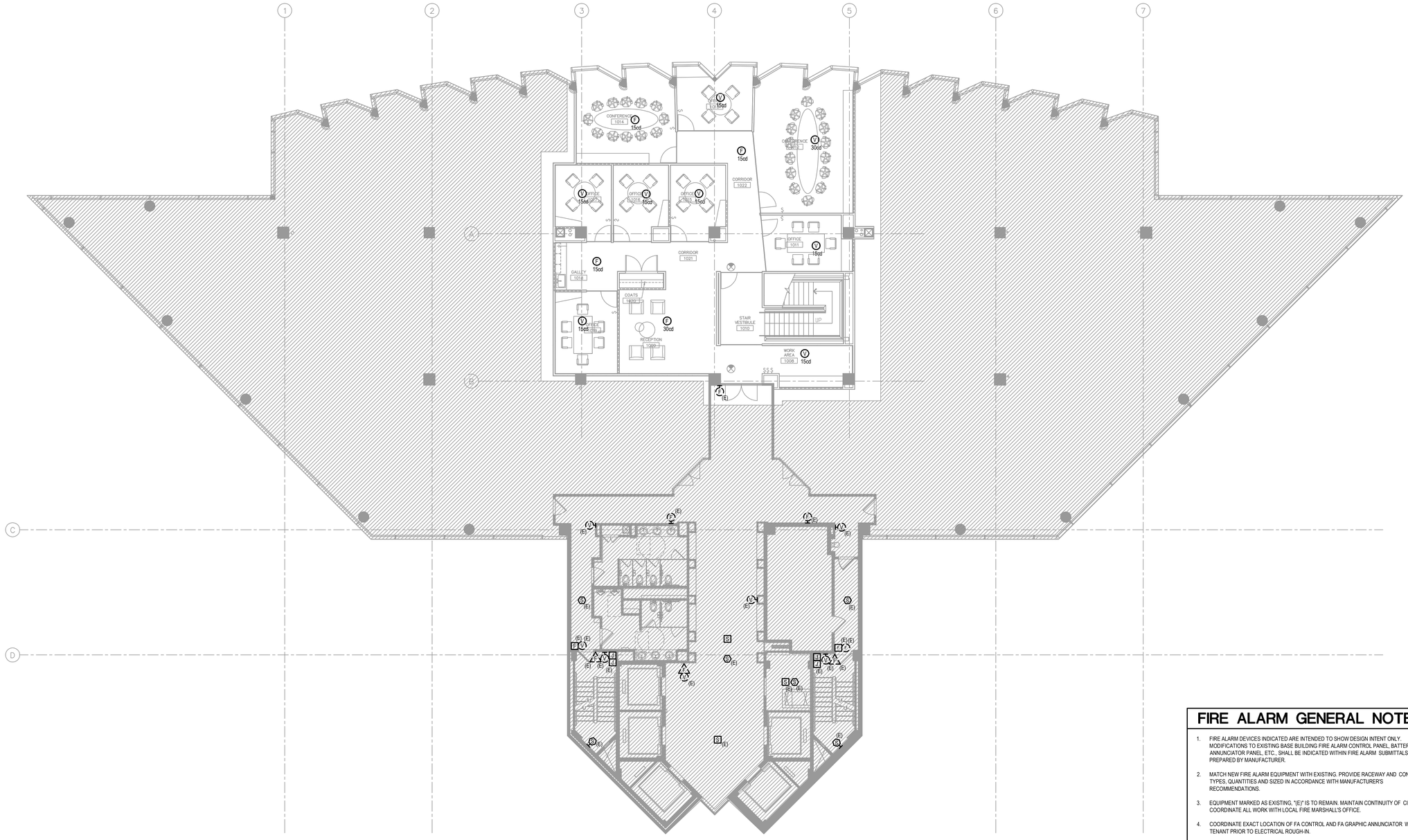
FILE NAME
JOB NUMBER 11096-011

FIRE ALARM COVER SHEET

F001

Plotted By: Shannon Strong | 6/29/17 | 2:20 PM

ARL: K:\90\18808728\F-Cover Sheet



1 10TH FLOOR PLAN
1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

1. FIRE ALARM DEVICES INDICATED ARE INTENDED TO SHOW DESIGN INTENT ONLY. MODIFICATIONS TO EXISTING BASE BUILDING FIRE ALARM CONTROL PANEL, BATTERIES, ANNUNCIATOR PANEL, ETC., SHALL BE INDICATED WITHIN FIRE ALARM SUBMITTALS PREPARED BY MANUFACTURER.
2. MATCH NEW FIRE ALARM EQUIPMENT WITH EXISTING. PROVIDE RACEWAY AND CONDUCTOR TYPES, QUANTITIES AND SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. EQUIPMENT MARKED AS EXISTING, "(E)" IS TO REMAIN. MAINTAIN CONTINUITY OF CIRCUIT COORDINATE ALL WORK WITH LOCAL FIRE MARSHALL'S OFFICE.
4. COORDINATE EXACT LOCATION OF FA CONTROL AND FA GRAPHIC ANNUNCIATOR WITH TENANT PRIOR TO ELECTRICAL ROUGH-IN.
5. ALL CEILING MOUNTED AND WALL MOUNTED FIRE ALARM DEVICES ARE TO BE WHITE WITH RED LETTERING.
6. CONTRACTOR SHALL REFER TO ARCHITECT FOR LOCATION OF SPEAKERS IN CEILINGS.
7. THE CONTRACTOR SHALL REPLACE ALL EXISTING F.A. STROBE DEVICES WHICH ARE NOT ADA COMPLIANT AND PROVIDE NEW ADJUSTABLE SETTING ADA COMPLIANT STROBES. DO NOT REUSE EXISTING ADA STROBES WHICH DO NOT HAVE ADJUSTABLE SETTINGS UNLESS THE EXISTING ADA COMPLIANT STROBE FITS THE REQUIRED CANDELA RATING FOR THE NEW AREA BEING SERVED.
8. ALL RE-USED/ RELOCATED ADA STROBE DEVICES SHALL HAVE CANDELA RATINGS SET AND PROVIDED AS SHOWN ON THE DRAWINGS TO ACHIEVE COVERAGE FOR THE AREA SERVED. PROVIDE ADJUSTABLE CANDELA SETTINGS ON ALL NEW ADA COMPLIANT STROBE DEVICES.
9. ALL NEW AND EXISTING FIRE ALARM STROBE DEVICES SHALL BE SYNCHRONIZED.
10. CONTRACTOR SHALL RE-USE EXISTING FIRE ALARM DEVICES IF THE CANDELA RATINGS CAN BE ADJUSTED TO FIT NEW DESIGN AND IF THE EXISTING FIRE ALARM DEVICES CAN BE SYNCHRONIZED.
11. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL DEVICES WITH ARCHITECT IN FIELD.
12. ALL NEW FIRE ALARM DEVICES MUST BE COMPATIBLE WITH BASE BUILDING SYSTEM.
13. CONTRACTOR MUST LABEL ALL NEW INSTALLATION WORK AT THE PANEL AND NEW WIRING.
14. CONTRACTOR MUST NOTIFY FINAL FIRE ALARM TIE-IN WITH BASE BUILDING FIRE ALARM INSTALLER.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANMICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728	PROJ. MGR. LM
MECH. SS ELEC. BT	PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

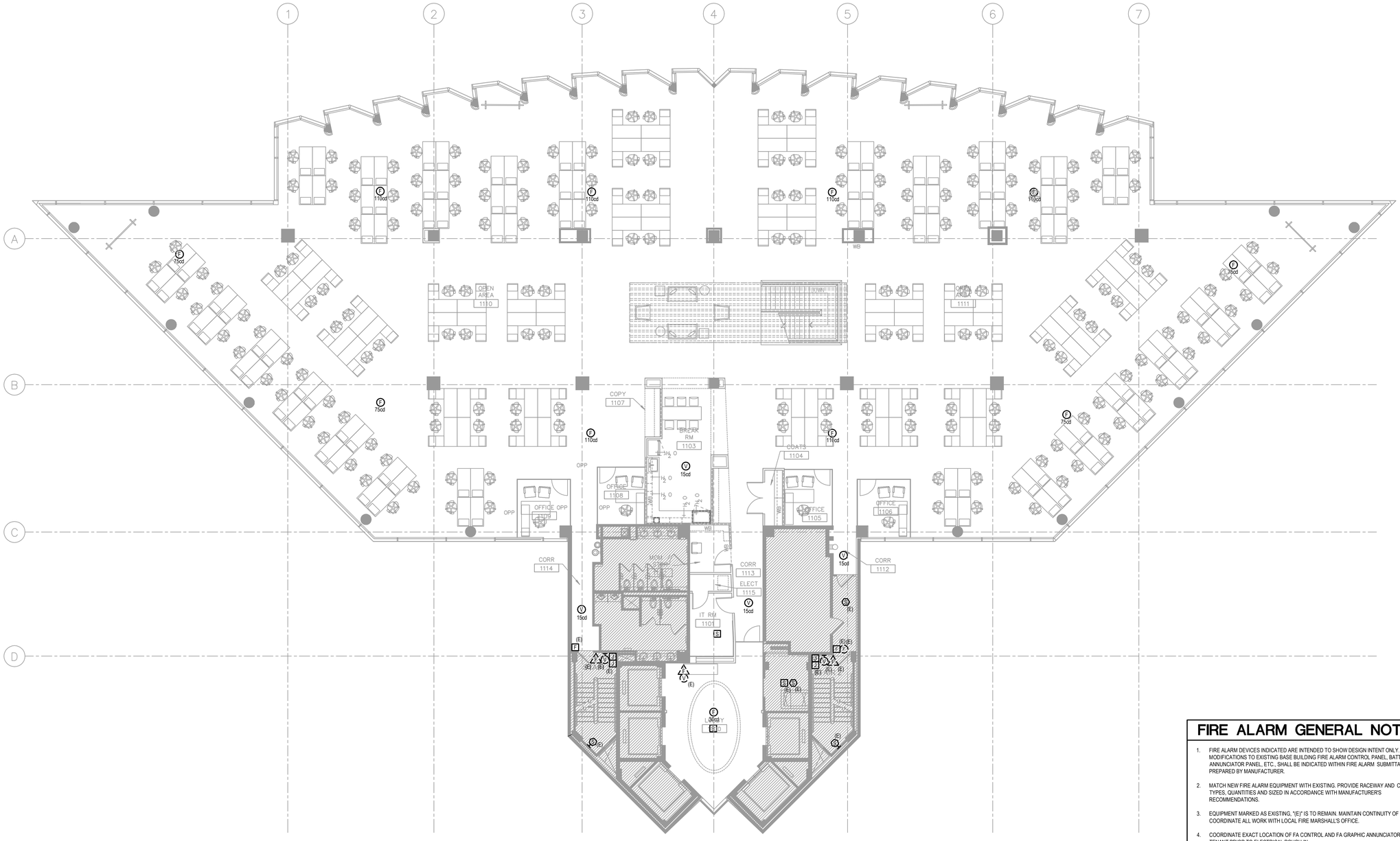
FILE NAME	
JOB NUMBER	11096-011

FIRE ALARM
10TH FLOOR PLAN

F110

Plotted By: Shannon Strong | 6/28/17 | 2:19 PM

ARL: K:\90\18808728\F - 10th Floor Plan



1 11TH FLOOR PLAN
1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

1. FIRE ALARM DEVICES INDICATED ARE INTENDED TO SHOW DESIGN INTENT ONLY. MODIFICATIONS TO EXISTING BASE BUILDING FIRE ALARM CONTROL PANEL, BATTERIES, ANNUNCIATOR PANEL, ETC., SHALL BE INDICATED WITHIN FIRE ALARM SUBMITTALS PREPARED BY MANUFACTURER.
2. MATCH NEW FIRE ALARM EQUIPMENT WITH EXISTING. PROVIDE RACEWAY AND CONDUCTOR TYPES, QUANTITIES AND SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. EQUIPMENT MARKED AS EXISTING, "(E)" IS TO REMAIN. MAINTAIN CONTINUITY OF CIRCUIT COORDINATE ALL WORK WITH LOCAL FIRE MARSHALL'S OFFICE.
4. COORDINATE EXACT LOCATION OF FA CONTROL AND FA GRAPHIC ANNUNCIATOR WITH TENANT PRIOR TO ELECTRICAL ROUGH-IN.
5. ALL CEILING MOUNTED AND WALL MOUNTED FIRE ALARM DEVICES ARE TO BE WHITE WITH RED LETTERING.
6. CONTRACTOR SHALL REFER TO ARCHITECT FOR LOCATION OF SPEAKERS IN CEILINGS.
7. THE CONTRACTOR SHALL REPLACE ALL EXISTING F.A. STROBE DEVICES WHICH ARE NOT ADA COMPLIANT AND PROVIDE NEW ADJUSTABLE SETTING ADA COMPLIANT STROBES. DO NOT REUSE EXISTING ADA STROBES WHICH DO NOT HAVE ADJUSTABLE SETTINGS UNLESS THE EXISTING ADA COMPLIANT STROBE FITS THE REQUIRED CANDELA RATING FOR THE NEW AREA BEING SERVED.
8. ALL RE-USED/ RELOCATED ADA STROBE DEVICES SHALL HAVE CANDELA RATINGS SET AND PROVIDED AS SHOWN ON THE DRAWINGS TO ACHIEVE COVERAGE FOR THE AREA SERVED. PROVIDE ADJUSTABLE CANDELA SETTINGS ON ALL NEW ADA COMPLIANT STROBE DEVICES.
9. ALL NEW AND EXISTING FIRE ALARM STROBE DEVICES SHALL BE SYNCHRONIZED.
10. CONTRACTOR SHALL RE-USE EXISTING FIRE ALARM DEVICES IF THE CANDELA RATINGS CAN BE ADJUSTED TO FIT NEW DESIGN AND IF THE EXISTING FIRE ALARM DEVICES CAN BE SYNCHRONIZED.
11. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL DEVICES WITH ARCHITECT IN FIELD.
12. ALL NEW FIRE ALARM DEVICES MUST BE COMPATIBLE WITH BASE BUILDING SYSTEM.
13. CONTRACTOR MUST LABEL ALL NEW INSTALLATION WORK AT THE PANEL AND NEW WIRING.
14. CONTRACTOR MUST NOTIFY FINAL FIRE ALARM TIE-IN WITH BASE BUILDING FIRE ALARM INSTALLER.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANMICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME	
JOB NUMBER	11096-011

FIRE ALARM
11TH FLOOR PLAN

F111

Plotted By: Shannon Strong | 6/28/17 | 2:19 PM

ARL: K:\96\18808728\F-11th Floor Plan

MECHANICAL GENERAL NOTES

1. PROVIDE WORK CONFORMING IN ALL RESPECTS TO THE LATEST APPLICABLE CODES OF THE AUTHORITIES HAVING JURISDICTION, AND ALL APPLICABLE RULES, REGULATIONS, LAWS AND ORDINANCES OF FEDERAL AND LOCAL AUTHORITIES. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH ACCEPTED INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. PROJECT IS DESIGNED IN ACCORDANCE WITH :
   VIRGINIA:
   - 2012 VIRGINIA USBC
   - 2012 INTERNATIONAL MECHANICAL CODE
   - 2012 INTERNATIONAL PLUMBING CODE
   - 2012 INTERNATIONAL ENERGY CONSERVATION CODE
   - 2012 INTERNATIONAL FUEL GAS CODE

2. THE SCOPE OF WORK INDICATED IN THESE DOCUMENTS SHALL INCLUDE FULLY FUNCTIONING MECHANICAL SYSTEMS, ADJUSTED, TESTED, AND READY FOR USE. PROVIDE ALL ITEMS NECESSARY TO COMPLETE THE SYSTEMS. EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, FIRE ALARM, PLUMBING AND TELECOM DRAWINGS TO BECOME FAMILIARIZED WITH ALL ASPECTS OF THOSE DESIGNS. COORDINATE WORK WITH THAT TO BE PERFORMED OR INSTALLED BY OTHERS, AND THAT AFFECTING MECHANICAL SYSTEMS, TO DETERMINE THE EXTENT OF MECHANICAL WORK REQUIRED.

3. THE ENGINEERS' CONSTRUCTION PHASE SERVICES ARE INTENDED TO BENEFIT THE CLIENT ONLY. SERVICES RENDERED BY THE ENGINEER DO NOT RELIEVE CONTRACTORS FROM OBLIGATIONS OF THE CONSTRUCTION DOCUMENTS. THE ENGINEER DOES NOT HAVE THE AUTHORITY TO SUPERVISE, DIRECT, OR CONTROL THE CONTRACTORS. THE ENGINEER IS NOT RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR FOR SAFETY PROGRAMS AND PRECAUTIONS DURING CONSTRUCTION. THE ENGINEER IS NOT RESPONSIBLE FOR CONTRACTORS' FAILURE TO PERFORM THE WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS OR APPLICABLE LAWS, CODES, OR REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

4. IN ADHERENCE WITH THE INTENT OF THESE CONTRACT DOCUMENTS, PROVIDE FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH, INSTALL, BALANCE, ADJUST, AND TEST, COMPLETE AND READY FOR USE".

5. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF SYSTEMS AND COMPONENTS. PROVIDE ALL ITEMS NECESSARY FOR A PROPERLY WORKING SYSTEM AT NO ADDITIONAL COST, EVEN IF NOT SPECIFICALLY MENTIONED HEREIN.

6. PRIOR TO SUBMITTING A BID, VISIT THE CONSTRUCTION SITE, BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT AND/OR ENGINEER OF ANY ITEMS THAT MAY AFFECT THE BID. PRIOR TO THE INSTALLATION, FABRICATION, REMOVAL, OR RELOCATION OF ANY WORK, REVIEW THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND FULLY COORDINATE ALL WORK WITH THE ARCHITECTURAL PLANS, BUILDING STRUCTURE, AND WORK OF OTHER TRADES. VERIFY EXISTING INVERTS PRIOR TO CONSTRUCTION. WHERE CONFLICTS OCCUR, OR IF CONNECTIONS THERETO CANNOT BE MADE, IMMEDIATELY NOTIFY THE ARCHITECT AND/OR ENGINEER, PRIOR TO MATERIAL FABRICATION OR INSTALLATION.

7. WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER, OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OR REQUIRED ACCESS/CLEARANCE SPACE OF OTHER TRADES, COORDINATE ADJUSTMENTS PRIOR TO INSTALLATION TO PROVIDE SATISFACTORY SPACE. FOR ANY WORK INSTALLED WITHOUT COORDINATION AND/OR CAUSING CONFLICTS, PROVIDE ALL NECESSARY CHANGES TO CORRECT THE CONDITIONS. THE CORRECTION WORK SHALL BE PERFORMED IN A MANNER ACCEPTABLE TO ARCHITECT AND ENGINEER AND SHALL BEAR NO ADDITIONAL COSTS.

8. LOCATE ALL EQUIPMENT REQUIRING SERVICING, OPERATIONAL, OR MAINTENANCE CLEARANCES IN A FULLY ACCESSIBLE POSITION. EQUIPMENT REQUIRING THESE CLEARANCES SHALL INCLUDE, BUT NOT BE LIMITED TO: DAMPERS, VALVES, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, DISCONNECTS, DRAIN PANS, ETC. IF EQUIPMENT IS CONCEALED, PROVIDE ACCESS DOORS TO MAINTAIN ACCESSIBILITY. MINOR DEVIATIONS FROM THE CONTRACT DOCUMENTS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY, AND ANY CHANGE FOR THAT PURPOSE SHALL BE ACCEPTABLE.

9. PROVIDE CUTTING, PATCHING, AND/OR CORE DRILLING OF EXISTING WALLS, FLOORS, OR STRUCTURAL MEMBERS AS REQUIRED FOR THE INSTALLATION OF NEW WORK. OBTAIN A STRUCTURAL ENGINEER'S REVIEW AND APPROVAL, AND INFORM THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING THIS WORK. UNLESS OTHERWISE DIRECTED BY THE STRUCTURAL ENGINEER AND PRIOR TO CORE DRILLING, PERFORM X-RAYS OF AREAS TO BE PENETRATED TO VERIFY THE SLAB IS FREE OF OBSTRUCTIONS, OR CONFIRM WITH THE BUILDING OWNER IF GROUND PENETRATING RADAR (GPR) IS AN ACCEPTABLE ALTERNATE TO X-RAY.

10. INSTALL ALL DUCTWORK AND HORIZONTAL PIPING AS HIGH AS POSSIBLE AND ABOVE THE FINISHED CEILING, UNLESS NOTED OTHERWISE. PROVIDE OFFSETS, AS REQUIRED, TO AVOID ALL OBSTRUCTIONS.

11. PERFORM ALL WORK IN ACCORDANCE WITH ALL BUILDING RULES AND REGULATIONS AS PROVIDED BY THE BUILDING OWNER. UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE, PERFORM ALL WORK REQUIRED IN OTHER TENANT SPACES OUTSIDE REGULAR BUSINESS HOURS AND ACCOMPLISH WORK AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

12. PROVIDE A TESTING, ADJUSTING, AND BALANCING (TAB) AGENCY TO PERFORM ALL TESTS AND ADJUSTMENTS NECESSARY TO ACCOMPLISH COMPLETE BALANCING OF THE HVAC SYSTEMS. THE TAB AGENCY SHALL PERFORM ALL TESTS AND MAKE ALL ADJUSTMENT NECESSARY TO ENSURE THAT WATER AND AIR SYSTEMS ARE BALANCED TO WITHIN +10%, -5% OF THE SPECIFIED QUANTITIES. THE TAB AGENCY SHALL SUBMIT REPORTS OF ALL WORK CONDUCTED FOR APPROVAL, INCLUDING SPECIFIED MINIMUM AND MAXIMUM AIR / WATER FLOW RATES IN ALL OPERATING MODES FOR ALL EQUIPMENT SERVING THE SCOPE-OF-WORK SPACE. THE REPORT SHALL CLEARLY REFLECT THE PERCENT DEVIATION FROM THE DESIGN VALUES. THE TAB AGENCY SHALL BE AN AABC MEMBER IN GOOD STANDING, OR A FIRM CERTIFIED BY NEBB.
    - A. PRIOR TO CONSTRUCTION, VERIFY AND RECORD ALL EXISTING AIR OUTLETS WITH RESPECTIVE CFM AIRFLOWS, WITHIN THE TENANT SPACE AND IN ALL ADJACENT SPACES AFFECTED BY THE ACCOMPLISHMENT OF THIS WORK. IN ADDITION TO PERFORMING THE WORK AS DIRECTED BY THE CONTRACT DOCUMENTS, REBALANCE EXISTING AIR OUTLETS TO ORIGINAL RECORDED AIR QUANTITIES, AS REQUIRED.
    - B. MAKE ALL NECESSARY ADJUSTMENTS, INCLUDING BUT NOT LIMITED TO CHANGING FAN SHEAVES FOR THE BASE BUILDING SYSTEM AND EQUIPMENT. FINAL BALANCING OF THE HVAC SYSTEMS SHALL ACHIEVE THE PERFORMANCE (AIR TEMPERATURE AND/OR QUANTITY, WATER QUANTITY, OUTSIDE AIR QUANTITY) INDICATED BY THE CONTRACT DOCUMENTS.

13. PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR ALL INSULATED AND NON-INSULATED PIPING, DUCTWORK, AND CONDUITS TO MAINTAIN THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION ASSEMBLY PENETRATED. THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED IN WALLS SHALL BE INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATION. THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED IN HORIZONTAL ASSEMBLIES SHALL BE INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING/T RATING OF NOT LESS THAN ONE (1) HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED. REFER TO ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR FIRE RATING OF NEW AND EXISTING WALLS AND HORIZONTAL ASSEMBLIES PENETRATED.

14. PROVIDE LABOR, MATERIALS, DEVICES AND RELATED ITEMS NECESSARY FOR ALL NEW AND RELOCATED HVAC EQUIPMENT TO MAINTAIN A COMPLETE BUILDING AUTOMATIC TEMPERATURE CONTROL AND/OR MANAGEMENT SYSTEM (BAS / BMS). FURNISH, INSTALL AND COMMISSION ALL TEMPERATURE CONTROLS, TIME MANAGEMENT AND ALARM MONITORING, AS SPECIFIED OR DESCRIBED IN THE CONTRACT DOCUMENTS, COMPLETELY INTEGRATED WITH THE EXISTING BAS / BMS. AS A MINIMUM, ALL NEW WORK SHALL EMULATE ALL EXISTING OPERATIONAL CONTROLS AND OPERATOR INTERFACES, AS ACCOMPLISHED THROUGHOUT THE EXISTING BASE BUILDING SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. ALL NEW MATERIALS, DEVICES AND RELATED ITEMS SHALL BE FULLY COMPATIBLE AND OF EQUAL QUALITY WITH THE EXISTING BAS / BMS EQUIPMENT. THE INSTALLER OF THE CONTROL SYSTEMS SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE AND SHALL INSTALL WORK WITH TRAINED MECHANICS. FURNISH NEW AND/OR REPROGRAM THE EXISTING BAS / BMS INTERFACE PROCESSING UNITS, SOFTWARE, GRAPHICS AND ADDRESSES, AS REQUIRED, FOR COMPLETE INTEGRATION WITH THE EXISTING BAS / BMS. FOR ALL NEW AND/OR RELOCATED WORK UNDER THIS CONTRACT, AND AFFECTED EXISTING EQUIPMENT AND SYSTEMS, SECURE AND INCLUDE THE SERVICES OF THE EXISTING BASE BUILDING CONTROLS CONTRACTOR. THE EXISTING CONTROLS CONTRACTOR SHALL PROVIDE THE COMPLETE INTEGRATION, PROGRAMMING, SOFTWARE ENHANCEMENTS, REVISED SYSTEMS GRAPHICS, ETC. NECESSARY TO EMULATE ALL EXISTING OPERATIONAL CONTROLS AND OPERATOR INTERFACES, AS ACCOMPLISHED THROUGHOUT THE EXISTING BASE BUILDING SYSTEM. THE COMPLETED WORK SHALL BE TRANSPARENT IN OPERATION AND OPERATIONAL INTERFACE FOR THE BUILDING OPERATING PERSONNEL.

15. DUCTWORK:
    - A. PROVIDE VARIABLE AIR VOLUME DUCTWORK FABRICATED OF ZINC-COATED SHEET STEEL SUITABLE FOR STATIC PRESSURE CLASS PRESCRIBED HEREIN WITH BOTTOM DUCT REINFORCING SPECIFIED IN SMACNA RECTANGULAR DUCT REINFORCEMENT TABLES. TRANSVERSE JOINTS MUST MEET THE SMACNA JOINT PERFORMANCE CRITERIA SPECIFIED IN ACCORDANCE WITH THE LATEST APPLICABLE SMACNA STANDARD. ALL DUCTWORK UPSTREAM OF VAV TERMINAL SHALL BE 3" PRESSURE CLASS CONSTRUCTION. ALL REMAINING DUCTWORK SHALL BE 2" PRESSURE CLASS CONSTRUCTION UNLESS NOTED OTHERWISE. FURNISH SEAL CLASS "A" ON 3" PRESSURE CLASS DUCTWORK AND SEAL CLASS "B" ON ALL REMAINING DUCTWORK.
    - B. RIGID ROUND AND ROUND FLEXIBLE DUCT SHALL BE INSTALLED WITH A MINIMUM CENTERLINE BENDING RADIUS OF 1.5 TIMES THE DUCT DIAMETER. SUPPORT RIGID ROUND AND ROUND FLEXIBLE DUCT IN ACCORDANCE WITH THE LATEST APPLICABLE SMACNA STANDARDS.
    - C. RIGID ROUND DUCT AND ROUND FLEXIBLE DUCT SHALL NOT BE CRUSHED OR FLATTENED. WHERE SPACE LIMITATIONS OR THE PRIMARY OR SECONDARY DUCT DIMENSIONS DO NOT PERMIT INSTALLATION OF THE RIGID ROUND DUCT, OR WOULD OTHERWISE REQUIRE CRUSHING ROUND FLEXIBLE DUCT RUNOUTS TO THE RESPECTIVE DIFFUSERS, CAV / VAV TERMINALS, ETC., PROVIDE INSULATED RIGID FLAT OVAL DUCTWORK WITH EQUIVALENT FREE AREA, INSULATED ROUND TO FLAT OVAL TRANSITION FITTINGS, AND HORIZONTAL / VERTICAL OFFSETS, AS REQUIRED, TO AVOID ALL OBSTRUCTIONS FOR A COMPLETE INSTALLATION.
    - D. ALL DUCTWORK SIZES SHOWN ARE SHEETMETAL SIZES. THE SIZES SHOWN ALREADY ACCOUNT FOR REQUIRED INTERNAL SOUND LINING, SO THE CONTRACTOR SHALL NOT INCREASE SHEET METAL DUCT SIZES TO ACCOUNT FOR ANY SOUND LINING.
    - E. TURNING VANES SHALL BE PROVIDED IN ALL 90 DEGREE ELBOWS. LOW PRESSURE DUCTWORK WHICH IS 31 INCHES OR GREATER IN WIDTH SHALL BE PROVIDED WITH DOUBLE THICKNESS TURNING VANES. FOR DUCTWORK BETWEEN 13 AND 30 INCHES IN WIDTH, TURNING VANES MAY BE SINGLE THICKNESS. DUCTWORK WHICH IS 12 INCHES OR LESS IN WIDTH SHALL BE PROVIDED WITH RADIUS ELBOWS IN LIEU OF MITERED ELBOWS WITH TURNING VANES.
    - F. ALL TAPS SHALL BE MOUNTED WITH SHEETMETAL SCREWS IN ADDITION TO DOUBLE SIDED STICKY FOAM BACKING TAPE. FLAT OVAL TAPS INTO NEW AND/OR EXISTING DUCTWORK SHALL BE USED TO ACCOMMODATE NEW FLEX DUCT CONNECTIONS IF REQUIRED.
    - G. PROVIDE VOLUME DAMPERS AT ALL CONSTANT AIR VOLUME DUCTWORK TAKEOFFS, ALL FLEXIBLE DUCT TAKEOFFS, AND ALL DUCT-MOUNTED SUPPLY AND EXHAUST GRILLES / REGISTERS. PROVIDE SHEETMETAL INCREASERS/REDUCERS AS REQUIRED TO MAKE FLEX DUCT CONNECTIONS TO DIFFUSERS OR TAPS INTO DUCTWORK. NO VOLUME DAMPERS SHALL BE LOCATED UPSTREAM OF CAV/VAV TERMINALS.
    - H. ALL UNUSED TAPS IN ANY EXISTING DUCT SHALL BE SEALED AND CAPPED AIRTIGHT.
    - I. ALL DUCTWORK SHALL CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.
    - J. COORDINATE FRAMING OF SLAB-TO-SLAB WALLS WITH EXISTING DUCTWORK. FRAMING SHALL NOT BE ATTACHED TO DUCTWORK.
    - K. IN LOCATIONS WHERE DUCTWORK PENETRATES SLAB-TO-SLAB PARTITIONS, RIGID DUCTWORK SHALL BE USED.
    - L. ANY MODIFICATIONS TO EXISTING DUCTWORK SHALL BE MADE WITH INSULATION COVERAGE OF THE SAME TYPE AS THE EXISTING. UNLESS NOTED OTHERWISE, NEW DUCTWORK SHALL BE COVERED WITH 1-1/2" THICK GLASS FIBER BLANKET WRAP INSULATION WITH VAPOR BARRIER.

16. FIRE/SMOKE DAMPERS:
    - A. ALL FIRE DAMPERS SHALL COMPLY WITH UL 555. FIRE DAMPERS SHALL BE CLASS "B " UNLESS OTHERWISE SPECIFIED.
    - B. ALL SMOKE DAMPERS SHALL COMPLY WITH UL 555S.
    - C. PROVIDE DUCT ACCESS DOOR FOR ALL FIRE AND SMOKE DAMPERS, SIZED AND LOCATED AS REQUIRED TO ALLOW FOR INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING COMPONENTS.

17. PIPING:
    - A. ALL UNUSED PIPING SHALL BE REMOVED BACK TO THE POINT OF CONNECTION TO ACTIVE STACKS, RISERS, OR MAINS AND CAPPED OR PLUGGED IN A CONCEALED LOCATION. PROVIDE SHUTOFF VALVES FOR ALL CAPPED SUPPLY AND RETURN PIPING AT TERMINATION POINTS.

18. EQUIPMENT:
    - A. COORDINATE THE FRAME TYPE, STYLE AND LOCATION OF ALL AIR DIFFUSERS, GRILLES, ETC., WITH ARCHITECTURAL FEATURES, CEILING GRID, AND LIGHTING FIXTURES TO ENSURE A SYMMETRIC AND/OR INTEGRAL PATTERN OF DESIGN AND CONSTRUCTION.
    - B. IN GENERAL, CEILING-MOUNTED EXHAUST FANS SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER AT THE FAN, AND A WALL-MOUNTED ON/OFF SWITCH IN THE ROOM TO BE SERVED. WALL SWITCHES SHALL MATCH ROOM LIGHT SWITCHES AS SELECTED BY THE ARCHITECT AND SHALL BE ENGRAVED TO INDICATE THEIR FUNCTION.
    - C. PROVIDE COMBINATION STARTER/FUSED DISCONNECTS FOR ALL MECHANICAL EQUIPMENT, UNLESS SPECIFICALLY NOTED OTHERWISE.
    - D. ALL THERMOSTATS/TEMPERATURE SENSORS SHALL BE INSTALLED 4'-0" AFF UNLESS NOTED OTHERWISE. THERMOSTATS/TEMPERATURE SENSORS LOCATED ON PERIMETER WALLS/COLUMNS SHALL BE PROVIDED WITH INSULATED SUB-BASES. EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECT AND FURNISHINGS.
    - E. FURNISH AND INSTALL THERMOSTATS/TEMPERATURE SENSORS IN LOCATIONS INDICATED ON THE DRAWINGS. THERMOSTATS/TEMPERATURE SENSORS SHALL NOT BE LOCATED ABOVE DIMMER SWITCHES OR OTHER HEAT-PRODUCING ELECTRICAL DEVICES. THERMOSTATS/TEMPERATURE SENSORS SHALL BE ALIGNED WITH TOP EDGE OF ADJACENT LIGHT SWITCH(ES), AND LOCATED IN CLOSE PROXIMITY TO DOOR JAMB, UNLESS OTHERWISE INDICATED ON PLANS OR ARCHITECTURAL ELEVATIONS.
    - F. COORDINATE THE LOCATION OF ALL NEW HVAC EQUIPMENT TO ENSURE THAT ALL REQUIRED SERVICE AREAS AROUND EQUIPMENT ARE FREE FROM PARTITION FRAMING, SPRINKLER PIPING, CONDUIT, OR OTHER IMPEDIMENTS. PROVIDE SPRINKLER MODIFICATIONS AS REQUIRED. WHERE PARTITION FRAMING MUST BE LOCATED WITHIN HVAC EQUIPMENT ELECTRICAL SERVICE AREAS, FRAME A FULL-SIZED OPENING IN THE PARTITION FRAMING FROM TOP OF CEILING TO UNDERSIDE OF BUILDING STRUCTURE. WHERE NEW TENANT PARTITIONS AND EQUIPMENT INFRINGE UPON CLEARANCES OF EXISTING HVAC EQUIPMENT, EXISTING EQUIPMENT SHALL BE RELOCATED AS REQUIRED.
    - G. FOR ALL NEW AND EXISTING HVAC EQUIPMENT LOCATED ABOVE NEW INACCESSIBLE CEILINGS, PROVIDE ACCESS PANEL(S) AS REQUIRED TO ALLOW FOR REGULAR MAINTENANCE AND REMOVAL OF EQUIPMENT FROM THE CEILING. PRIOR TO INSTALLATION, COORDINATE EXACT LOCATION, SIZE, AND TYPE OF ACCESS PANELS WITH ARCHITECT AND BUILDING ENGINEER.

21. PRE-CONSTRUCTION VERIFICATION:

    PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXAMINE THE EXISTING MECHANICAL SYSTEM AND TEST EXISTING-TO-REMAIN EQUIPMENT WITHIN THE SCOPE-OF-WORK AREAS. AT A MINIMUM, THE CONTRACTOR SHALL VERIFY THE ITEMS DESCRIBED IN THE LIST BELOW AND SHALL ISSUE A REPORT TO THE ARCHITECT / ENGINEER NOTING ANY DEFICIENCIES OR CONFLICTS. THE MECHANICAL WORK FURTHER DESCRIBED IN THESE DRAWINGS SHALL NOT PROCEED UNTIL THIS PRE-CONSTRUCTION REPORT IS APPROVED BY THE ARCHITECT / ENGINEER.
    - A. VERIFY PROPER OPERATION OF ALL EXISTING VAV TERMINAL UNITS SERVING THE SCOPE-OF-WORK SPACE. THIS SHALL INCLUDE CONFIRMATION THAT THE TERMINAL, PRIMARY AIR DAMPERS, AND ELECTRIC HEATERS ARE FUNCTIONING AS INTENDED. IN ADDITION, IF THERE IS A DISCREPANCY BETWEEN THE VAV BOX LAYOUT SHOWN ON THESE DRAWINGS AND THE EXISTING CONDITIONS IN THE FIELD, PLEASE NOTE THAT IN THIS REPORT .
    - B. CLOSELY INSPECT EXISTING DUCT MAINS FOR DUCT LEAKAGE AND DAMAGE TO INSULATION.
    - C. CONFIRM THAT THERE ARE VOLUME DAMPERS ON ALL EXISTING-TO-REMAIN DUCTS, AS REQUIRED TO ADEQUATELY BALANCE EXISTING-TO-REMAIN DIFFUSERS, AS NOTED ON THESE PLANS.
    - D. IDENTIFY ALL LOCATIONS WHERE NEW EQUIPMENT OR PARTITIONS WILL INFRINGE UPON THE REQUIRED CLEARANCES OR MEANS OF ACCESS OF EXISTING-TO-REMAIN MECHANICAL EQUIPMENT.

22. ENGINEER INSPECTION NOTIFICATION
    - A. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE ARCHITECT / ENGINEER TWO WEEKS PRIOR TO THE CEILING CLOSE-IN TO ALLOW ENGINEER TO PERFORM A PRE-CEILING CONCEALMENT INSPECTION OF A COMPLETED MECHANICAL SYSTEM.

23. GUARANTEE:
    - A. THE ENTIRE MECHANICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE LEFT IN PROPER WORKING ORDER AND ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE SHALL BE REPLACED WITHOUT CHARGE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE.
    - B. DURING THE YEAR GUARANTEE PERIOD, PROVIDE PROPER REPAIR AND ADJUSTMENTS OF ALL MECHANICAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC., AFFECTED AND INSTALLED UNDER THIS CONTRACT. PERFORM ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPERLY FUNCTIONING SYSTEMS.
    - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR, ANY DAMAGES CAUSED BY OR RESULTING FROM DEFECTS IN HIS WORK.

24. SHOP DRAWINGS AND SUBMITTALS:
    - A. PRIOR TO THE BEGINNING OF WORK, SUBMIT COORDINATED SHOP DRAWINGS AND MANUFACTURER CERTIFIED SUBMITTALS FOR ALL EQUIPMENT, DUCTWORK, ETC., FOR REVIEW BY THE ARCHITECT AND ENGINEER. ADDITIONALLY, FURNISH A DRAWING SHOWING THE DIMENSIONED LOCATION AND SIZE OF ALL SLAB PENETRATIONS, FOR OWNER'S APPROVAL.
    - B. MECHANICAL EQUIPMENT SUBMITTALS SHALL CONTAIN, AT A MINIMUM, DIMENSIONED DRAWINGS OF SUBMITTED EQUIPMENT, FAN/PUMP CURVES INDICATING OPERATING PERFORMANCE AT DESIGN CONDITIONS, COOLING/HEATING CAPACITIES AT DESIGN CONDITIONS, AIR/WATER FLOW RATES AT DESIGN CONDITIONS, ELECTRICAL CHARACTERISTICS, OPTIONS AND ACCESSORIES INCLUDED AND EXCLUDED.
    - C. AT A MINIMUM, EQUIPMENT SUBMITTALS FOR THE FOLLOWING SYSTEMS SHALL BE PROVIDED: AIR DISTRIBUTION DEVICES AND FANS.

25. CLOSE-OUT DOCUMENTS:
    - A. RECORD DRAWINGS: MAINTAIN AT THE SITE AND FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS, AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF WORK.
    - B. OPERATION & MAINTENANCE MANUALS: PROVIDE OWNER WITH A COPY OF EQUIPMENT SUBMITTALS AND MANUFACTURER'S OPERATION & MAINTENANCE MANUALS FOR ALL NEW EQUIPMENT PROVIDED UNDER THIS CONTRACT.

MECHANICAL SYMBOLS LIST

- 26x12 — NEW RECTANGULAR DUCT
- 10Ø — NEW ROUND DUCT
- NEW FLEX DUCT
- EXISTING RECTANGULAR DUCT
- DUCT TO BE DEMOLISHED
- DUCTWORK WITH 1" ACOUSTICAL SOUND LINING
- DUCTWORK WITH 2-HOUR FIRE RATED ENCLOSURE
- R — DUCT RISING UP
- D — DUCT DROPPING DOWN
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- TURNING VANES
- FLEXIBLE CONNECTION
- FD — FIRE DAMPER
- MOD — MOTORIZED DAMPER
- SFD — COMBINATION MOTORIZED SMOKE/FIRE DAMPER
- VD — VOLUME DAMPER
- SCREENED OPENING
- 24" x 24" RETURN GRILLE
- 24" x 24" SUPPLY DIFFUSER
- LINEAR DIFFUSER
- T — THERMOSTAT / TEMPERATURE SENSOR
- S — SMOKE DETECTOR
- —UC→ DOOR UNDER CUT (SEE ARCH.)
- —DL→ DOOR LOUVER (SEE ARCH.)
- OA / 1 — RISER DESIGNATIONS

CH	CHILLED WATER
CW	CONDENSER WATER
EA	GENERAL EXHAUST
D	CONDENSATE DRAIN
OA	OUTDOOR AIR
WE	WET STACK EXHAUST

F-# — EQUIPMENT DESIGNATIONS

AC	AIR CONDITIONING UNIT	ERU	ENERGY RECOVERY UNIT
AHU	AIR HANDLING UNIT	F	FAN
CH	CABINET HEATER	FCU	FAN COIL UNIT
CRAC	COMPUTER ROOM AC UNIT	HP	HEAT PUMP
CRAH	COMPUTER ROOM AIR HANDLING UNIT	P	PUMP
		RTU	ROOFTOP UNIT
CU	CONDENSING UNIT	UH	UNIT HEATER
DC	DRYCOOLER	WH	WALL HEATER
DH	DUCT HEATER		

- A / 600 — DESIGNATION; COOLING-ONLY VAV TERMINAL UNIT TAG; CFM
- A 4 / 600 / (R1) — DESIGNATION; ELECTRIC HEAT, KW; VAV TERMINAL UNIT W/ ELEC HEAT TAG; CFM; STATUS: (E)=EXISTING, (N)=NEW, (R1)=RELOCATED
- A / M-501 — SECTION MARKER; SHEET WHERE SECTION IS SHOWN
- 1 / M-501 — DETAIL MARKER; SHEET WHERE DETAIL IS SHOWN
- SHUT-OFF TYPE VAV TERMINAL UNIT
- ACCESS PANEL
- NEW TO EXISTING
- LIMIT OF DEMOLITION
- 1 — KEY NOTE TAG

MECHANICAL ABBREVIATIONS

ABV.	ABOVE	FD	FIRE DAMPER	OA	OUTDOOR AIR
A/C	AIR CONDITIONING	FL	FLOOR	PH	PHASE
ADJ	ADJUSTABLE	FLA	FULL LOAD AMPS	PPCD	PERFORATED PANEL CEILING DIFFUSER
AFF	ABOVE FINISHED FLOOR	FLEX	FLEXIBLE	PPM	PARTS PER MILLION
ARCH	ARCHITECTURAL	FPM	FEET PER MINUTE	PPRG	PERFORATED PANEL RETURN GRILLE
BHP	BRAKE HORSEPOWER	FT	FEET	PRESS	PRESSURE
BLDG	BUILDING	GWR	GLYCOL WATER RETURN	QTY	QUANTITY
BTU	BRITISH THERMAL UNIT	GWS	GLYCOL WATER SUPPLY	(R)	RELOCATED
CAP	CAPACITY	HP	HORSEPOWER	RA	RETURN AIR
CAV	CONSTANT AIR VOLUME	HR	HOUR	REFRIG	REFRIGERANT, REFRIGERATION
CD	CEILING DIFFUSER	HTG	HEATING	RLA	RUNNING LOAD AMPS
CFM	CUBIC FEET PER MINUTE	HZ	HERTZ	RTU	ROOFTOP UNIT
CHR, CWR	CHILLED, CONDENSER WATER RETURN	IN	INCH	SA	SUPPLY AIR
CHS, CWS	CHILLED, CONDENSER WATER SUPPLY	KW	KILOWATT	SENS	SENSIBLE
CG	CEILING GRILLE	LAT	LEAVING AIR TEMPERATURE	SFD	COMBINATION SMOKE/FIRE DAMPER
CO2	CARBON DIOXIDE	LB	POUND	SL	SOUND LINING
DN	DOWN	LWT	LEAVING WATER TEMPERATURE	SQ	SQUARE
D	CONDENSATE DRAIN	MAX	MAXIMUM	SR	SUPPLY REGISTER
DB	DRY BULB	MBH	1,000 BTU/HOUR	TDH	TOTAL DISCHARGE HEAD
DWG	DRAWING	MCA	MINIMUM CIRCUIT AMPS	TEMP	TEMPERATURE
EA	EACH	MFR	MANUFACTURER	TOT	TOTAL
EAT	ENTERING AIR TEMPERATURE	MIN	MINIMUM	TYP	TYPICAL
EFF	EFFICIENT	MOCP	MAXIMUM OVERCURRENT PROTECTION	UTR	UP THRU ROOF
ESP	EXTERNAL STATIC PRESSURE	MOD	MOTOR OPERATED DAMPER	V	VOLTS
EWT	ENTERING WATER TEMPERATURE	(N)	NEW	VAV	VARIABLE AIR VOLUME
EXH	EXHAUST	NC	NORMALLY IN CLOSED POSITION	VD	MANUAL VOLUME DAMPER
(E)	EXISTING	NO	NORMALLY IN OPEN POSITION, NUMBER	VEL	VELOCITY
FA	FACE AREA	NPSH	NET POSITIVE SUCTION HEAD	W/	WITH
		OA	OUTDOOR AIR	WB	WET BULB

NOTE:
THESE ARE STANDARD SYMBOLS AND ABBREVIATIONS, AND MAY NOT ALL APPEAR ON THE CONTRACT DRAWINGS.

MECHANICAL DRAWING LIST

PRICING NOTE:

THE LOCATIONS OF THE EXISTING TERMINAL UNITS SHOWN ON THESE PLANS HAVE BEEN APPROXIMATED BASED ON THE ORIGINAL DESIGN DRAWINGS AND FIELD SURVEY. ACTUAL UNIT LOCATIONS MAY DIFFER SLIGHTLY.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW EQUIPMENT AND PARTITIONS RELATIVE TO THE ACTUAL LOCATIONS OF THE EXISTING TERMINAL UNITS. WHERE NEW EQUIPMENT OR PARTITIONS WILL INFRINGE UPON THE REQUIRED CLEARANCES OR MEANS OF ACCESS FOR THE EXISTING TERMINAL UNITS, THOSE UNITS WILL NEED TO BE RELOCATED. UNIT ACCESS REQUIREMENTS SHALL BE CONFIRMED WITH THE BUILDING ENGINEER DURING THIS PROCESS.

THE CONTRACTOR SHALL INCLUDE IN THEIR BID A UNIT PRICE TO SHIFT ONE EXISTING TERMINAL UNIT APPROXIMATELY 5 FEET TO ACCOMMODATE THESE CLEARANCE / ACCESS REQUIREMENTS. THIS PRICE SHALL INCLUDE COSTS TO EXTEND AND RECONNECT ANY ASSOCIATED, DUCTWORK, PIPING, WIRING, CONTROLS, INSULATION, AND OTHER ACCESSORIES.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728		PROJ. MGR. LM	
MECH. SS	ELEC. BT	PLUMB. SK	

INSIGHT GLOBAL

1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

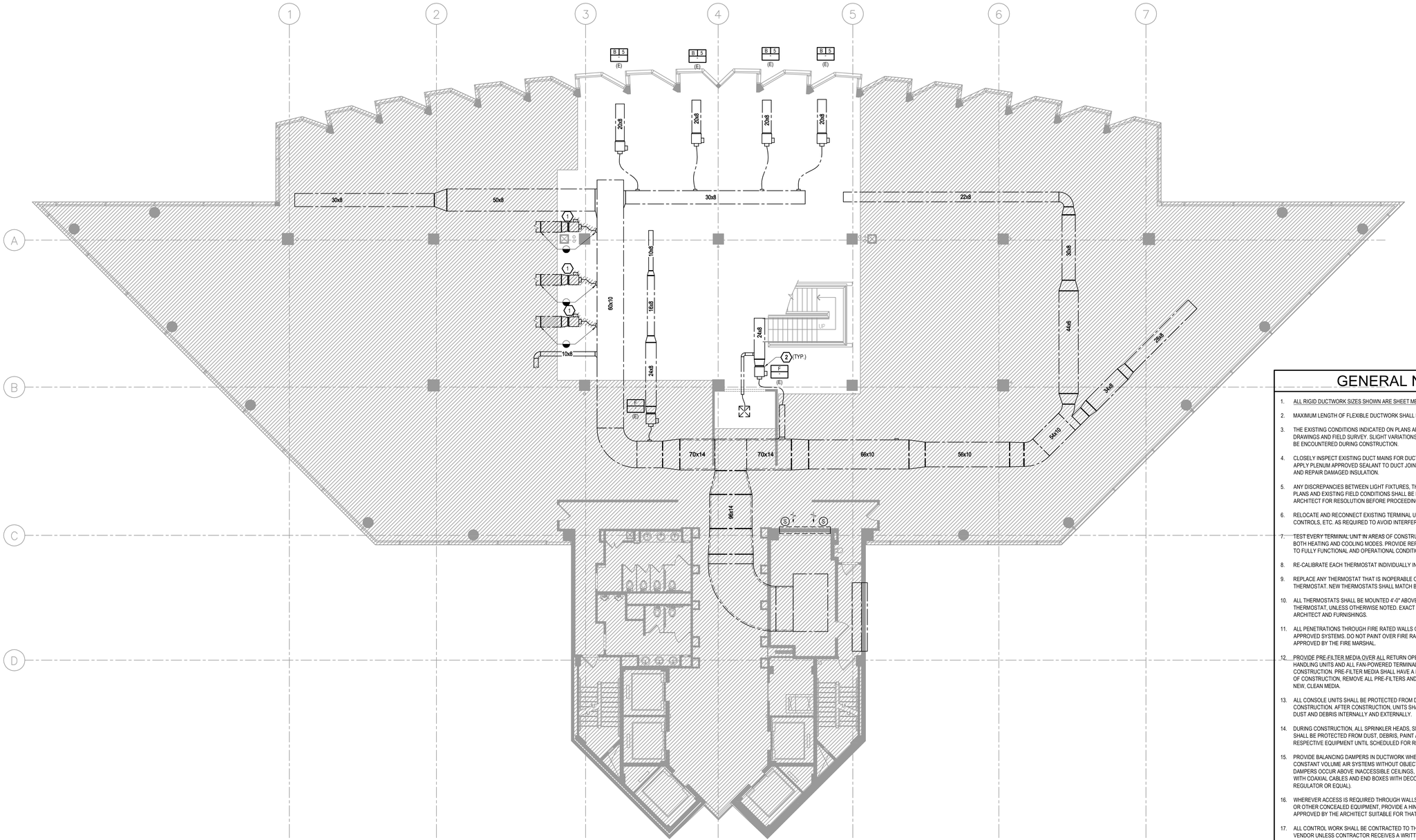
FILE NAME	
JOB NUMBER	11096-011

MECHANICAL COVER SHEET

M001

Plotted By: Shannon Strong | 6/28/17 | 2:22 PM

ARL: K:\90\18808728\M-Cover Sheet



1 10TH FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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

GENERAL NOTES:

1. ALL RIGID DUCTWORK SIZES SHOWN ARE SHEET METAL SIZES.
2. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 8'-0".
3. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON THE ORIGINAL DESIGN DRAWINGS AND FIELD SURVEY. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
4. CLOSELY INSPECT EXISTING DUCT MAINS FOR DUCT LEAKAGE AND DAMAGE TO INSULATION. APPLY PLENUM APPROVED SEALANT TO DUCT JOINTS AND SEAMS WHERE LEAKAGE OCCURS, AND REPAIR DAMAGED INSULATION.
5. ANY DISCREPANCIES BETWEEN LIGHT FIXTURES, THERMOSTATS, AND DIFFUSERS SHOWN ON PLANS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH INSTALLATION.
6. RELOCATE AND RECONNECT EXISTING TERMINAL UNITS AND ASSOCIATED DUCTWORK, CONTROLS, ETC. AS REQUIRED TO AVOID INTERFERENCE WITH NEW FULL HEIGHT PARTITIONS.
7. TEST EVERY TERMINAL UNIT IN AREAS OF CONSTRUCTION TO VERIFY PROPER OPERATION IN BOTH HEATING AND COOLING MODES. PROVIDE REPAIRS AS REQUIRED RETURNING ALL UNITS TO FULLY FUNCTIONAL AND OPERATIONAL CONDITION.
8. RE-CALIBRATE EACH THERMOSTAT INDIVIDUALLY IN AREAS OF CONSTRUCTION.
9. REPLACE ANY THERMOSTAT THAT IS INOPERABLE OR MISSING A COVER WITH A NEW THERMOSTAT. NEW THERMOSTATS SHALL MATCH BASE BUILDING STANDARD THERMOSTATS.
10. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE OF THERMOSTAT, UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT AND FURNISHINGS.
11. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE STOPPED WITH U.L. APPROVED SYSTEMS. DO NOT PAINT OVER FIRE RATED STAMP UNTIL INSPECTED AND APPROVED BY THE FIRE MARSHAL.
12. PROVIDE PRE-FILTER MEDIA OVER ALL RETURN OPENINGS TO MECHANICAL ROOM, ALL AIR HANDLING UNITS AND ALL FAN-POWERED TERMINAL UNITS SERVING AREA UNDER CONSTRUCTION. PRE-FILTER MEDIA SHALL HAVE A MINIMUM RATING OF MERV 8. AT THE END OF CONSTRUCTION, REMOVE ALL PRE-FILTERS AND REPLACE ANY PERMANENT FILTERS WITH NEW, CLEAN MEDIA.
13. ALL CONSOLE UNITS SHALL BE PROTECTED FROM DUST AND DAMAGE DURING CONSTRUCTION. AFTER CONSTRUCTION, UNITS SHALL BE THOROUGHLY CLEANED OF ALL DUST AND DEBRIS INTERNALLY AND EXTERNALLY.
14. DURING CONSTRUCTION, ALL SPRINKLER HEADS, SMOKE DETECTORS AND THERMOSTATS SHALL BE PROTECTED FROM DUST, DEBRIS, PAINT AND DAMAGE. ATTACH THERMOSTATS TO RESPECTIVE EQUIPMENT UNTIL SCHEDULED FOR RE-INSTALLATION.
15. PROVIDE BALANCING DAMPERS IN DUCTWORK WHERE REQUIRED TO EFFECTIVELY BALANCE CONSTANT VOLUME AIR SYSTEMS WITHOUT OBJECTIONABLE NOISE. WHERE BALANCING DAMPERS OCCUR ABOVE INACCESSIBLE CEILINGS, PROVIDE REMOTE DAMPER OPERATORS WITH COAXIAL CABLES AND END BOXES WITH DECORATIVE COVER PLATES (YOUNG REGULATOR OR EQUAL).
16. WHEREVER ACCESS IS REQUIRED THROUGH WALLS OR CEILINGS TO VALVES, FIRE DAMPERS, OR OTHER CONCEALED EQUIPMENT, PROVIDE A HINGED ACCESS DOOR AND FRAME TO BE APPROVED BY THE ARCHITECT SUITABLE FOR THAT SPECIFIC INSTALLATION.
17. ALL CONTROL WORK SHALL BE CONTRACTED TO THE ESTABLISHED BASE BUILDING CONTROL VENDOR UNLESS CONTRACTOR RECEIVES A WRITTEN VARIANCE FROM BUILDING OWNER, OR DULY AUTHORIZED REPRESENTATIVE. ALL NEW CONTROLS SHALL MATCH EXISTING.
18. ALL CONCEALED DUCTWORK, PIPING, AND CONTROLS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC. SHALL BE RELOCATED AND RECONNECTED AS REQUIRED.
19. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND ABOVE FINISHED CEILINGS, UNLESS OTHERWISE NOTED. PROVIDE OFFSETS AS REQUIRED AVOIDING ALL OBSTRUCTIONS.
20. CONSTRUCTION DEBRIS, EXCLUDING EQUIPMENT TO BE RETURNED TO BUILDING STOCK, SHALL BECOME PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PREMISES.

KEY NOTES:

1. RELOCATE EXISTING VAV TERMINAL UNIT AND ASSOCIATED THERMOSTAT TO LOCATION SHOWN ON NEW WORK PLANS.
2. EXISTING THERMOSTAT IS COILED AT VAV TERMINAL UNIT. RELOCATE AS SHOWN ON THE NEW WORK PLAN.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANMCK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 1808728	PROJ. MGR. LM
MECH. SS	ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

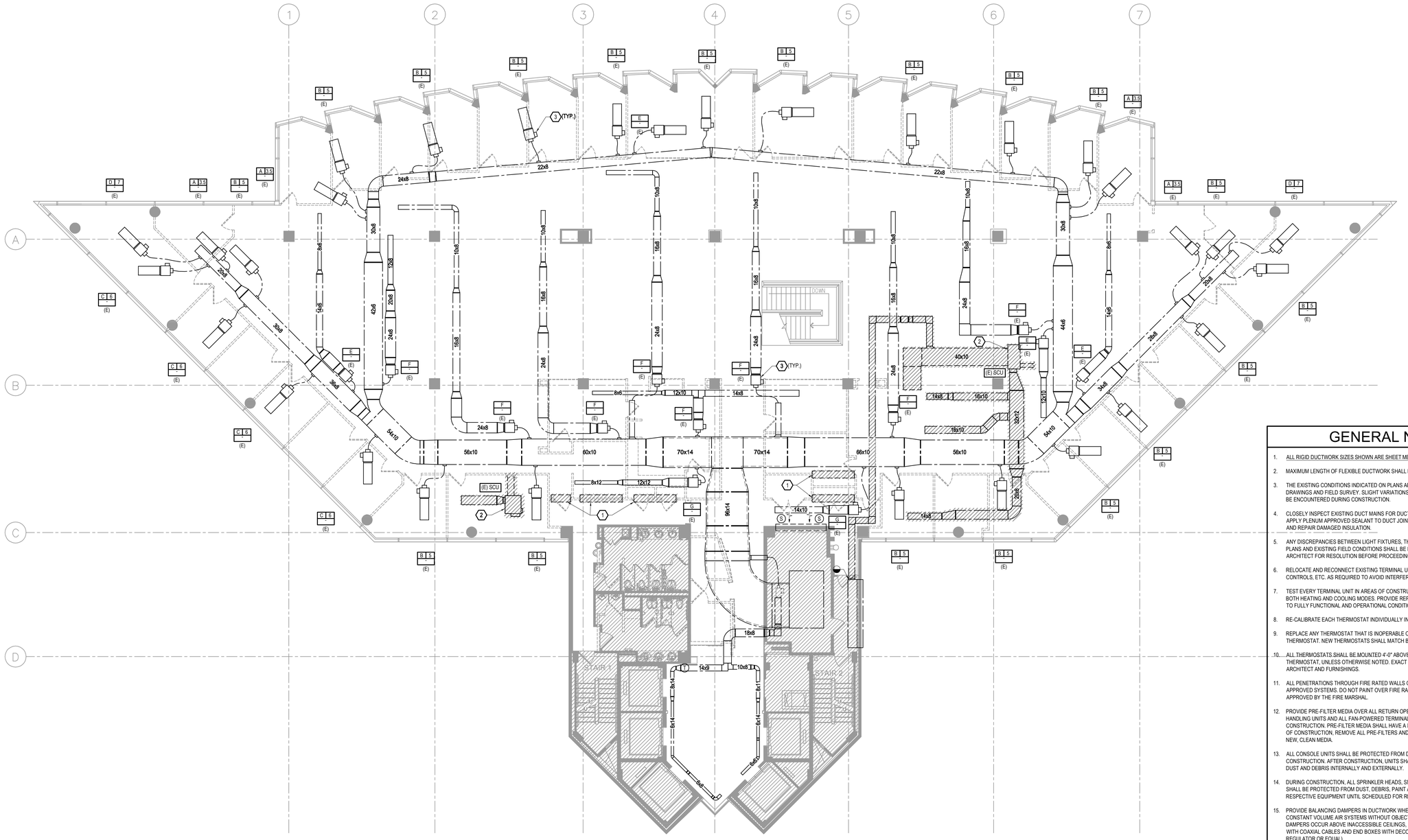
FILE NAME	
JOB NUMBER	11096-011

MECHANICAL 10TH FLOOR DEMOLITION PLAN

M110

Plotted By: Shannon Strong | 6/28/17 | 2:20 PM

ARL: K:\90\1808728\M-10th Floor Demolition Plan



1 11TH FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. ALL RIGID DUCTWORK SIZES SHOWN ARE SHEET METAL SIZES.
2. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 8'-0".
3. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON THE ORIGINAL DESIGN DRAWINGS AND FIELD SURVEY. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
4. CLOSELY INSPECT EXISTING DUCT MAINS FOR DUCT LEAKAGE AND DAMAGE TO INSULATION. APPLY PLENUM APPROVED SEALANT TO DUCT JOINTS AND SEAMS WHERE LEAKAGE OCCURS, AND REPAIR DAMAGED INSULATION.
5. ANY DISCREPANCIES BETWEEN LIGHT FIXTURES, THERMOSTATS, AND DIFFUSERS SHOWN ON PLANS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH INSTALLATION.
6. RELOCATE AND RECONNECT EXISTING TERMINAL UNITS AND ASSOCIATED DUCTWORK, CONTROLS, ETC. AS REQUIRED TO AVOID INTERFERENCE WITH NEW FULL HEIGHT PARTITIONS.
7. TEST EVERY TERMINAL UNIT IN AREAS OF CONSTRUCTION TO VERIFY PROPER OPERATION IN BOTH HEATING AND COOLING MODES. PROVIDE REPAIRS AS REQUIRED RETURNING ALL UNITS TO FULLY FUNCTIONAL AND OPERATIONAL CONDITION.
8. RE-CALIBRATE EACH THERMOSTAT INDIVIDUALLY IN AREAS OF CONSTRUCTION.
9. REPLACE ANY THERMOSTAT THAT IS INOPERABLE OR MISSING A COVER WITH A NEW THERMOSTAT. NEW THERMOSTATS SHALL MATCH BASE BUILDING STANDARD THERMOSTATS.
10. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE OF THERMOSTAT, UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT AND FURNISHINGS.
11. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE STOPPED WITH U.L. APPROVED SYSTEMS. DO NOT PAINT OVER FIRE RATED STAMP UNTIL INSPECTED AND APPROVED BY THE FIRE MARSHAL.
12. PROVIDE PRE-FILTER MEDIA OVER ALL RETURN OPENINGS TO MECHANICAL ROOM, ALL AIR HANDLING UNITS AND ALL FAN-POWERED TERMINAL UNITS SERVING AREA UNDER CONSTRUCTION. PRE-FILTER MEDIA SHALL HAVE A MINIMUM RATING OF MERV 8. AT THE END OF CONSTRUCTION, REMOVE ALL PRE-FILTERS AND REPLACE ANY PERMANENT FILTERS WITH NEW, CLEAN MEDIA.
13. ALL CONSOLE UNITS SHALL BE PROTECTED FROM DUST AND DAMAGE DURING CONSTRUCTION. AFTER CONSTRUCTION, UNITS SHALL BE THOROUGHLY CLEANED OF ALL DUST AND DEBRIS INTERNALLY AND EXTERNALLY.
14. DURING CONSTRUCTION, ALL SPRINKLER HEADS, SMOKE DETECTORS AND THERMOSTATS SHALL BE PROTECTED FROM DUST, DEBRIS, PAINT AND DAMAGE. ATTACH THERMOSTATS TO RESPECTIVE EQUIPMENT UNTIL SCHEDULED FOR RE-INSTALLATION.
15. PROVIDE BALANCING DAMPERS IN DUCTWORK WHERE REQUIRED TO EFFECTIVELY BALANCE CONSTANT VOLUME AIR SYSTEMS WITHOUT OBJECTIONABLE NOISE. WHERE BALANCING DAMPERS OCCUR ABOVE INACCESSIBLE CEILINGS, PROVIDE REMOTE DAMPER OPERATORS WITH COAXIAL CABLES AND END BOXES WITH DECORATIVE COVER PLATES (YOUNG REGULATOR OR EQUAL).
16. WHEREVER ACCESS IS REQUIRED THROUGH WALLS OR CEILINGS TO VALVES, FIRE DAMPERS, OR OTHER CONCEALED EQUIPMENT, PROVIDE A HINGED ACCESS DOOR AND FRAME TO BE APPROVED BY THE ARCHITECT SUITABLE FOR THAT SPECIFIC INSTALLATION.
17. ALL CONTROL WORK SHALL BE CONTRACTED TO THE ESTABLISHED BASE BUILDING CONTROL VENDOR UNLESS CONTRACTOR RECEIVES A WRITTEN VARIANCE FROM BUILDING OWNER, OR DULY AUTHORIZED REPRESENTATIVE. ALL NEW CONTROLS SHALL MATCH EXISTING.
18. ALL CONCEALED DUCTWORK, PIPING, AND CONTROLS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC. SHALL BE RELOCATED AND RECONNECTED AS REQUIRED.
19. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND ABOVE FINISHED CEILINGS, UNLESS OTHERWISE NOTED. PROVIDE OFFSETS AS REQUIRED AVOIDING ALL OBSTRUCTIONS.
20. CONSTRUCTION DEBRIS, EXCLUDING EQUIPMENT TO BE RETURNED TO BUILDING STOCK, SHALL BECOME PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PREMISES.

KEY NOTES:

1. REMOVE EXISTING TRANSFER DUCTS WITH WALL DEMOLITION.
2. REMOVE EXISTING SELF CONTAINED UNIT AND ALL ASSOCIATED CONTROLS, WIRING BACK TO SOURCE, DUCTWORK, FAN AND PIPING. REMOVE PIPING BACK TO MAIN AND CAP.
3. EXISTING THERMOSTAT IS COILED AT VAV TERMINAL UNIT. RELOCATE AS SHOWN ON THE NEW WORK PLAN.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET
703.538.7100
FALLS CHURCH
703.538.7102FAX
VIRGINIA 22046
WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200
www.ghtltd.com

PROJ. No. 1808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

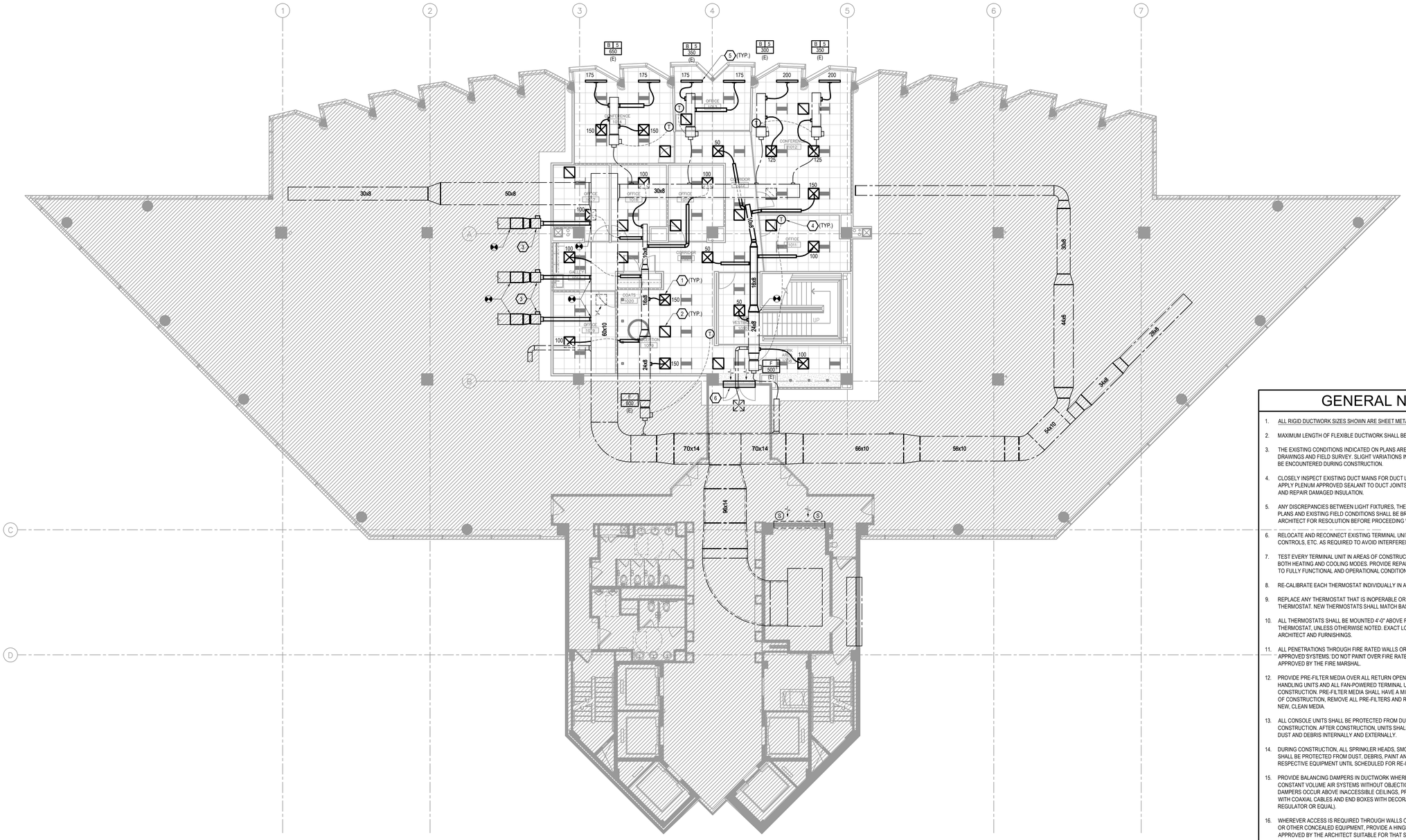
FILE NAME	
JOB NUMBER	11096-011

MECHANICAL 11TH FLOOR DEMOLITION PLAN

M111

Plotted By: Shannon Strong | 6/28/17 | 2:21 PM

ARL: K:\96\1808728\M-11th Floor Demolition Plan



1 10TH FLOOR NEW WORK PLAN
1/8" = 1'-0"

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

GENERAL NOTES:

1. ALL RIGID DUCTWORK SIZES SHOWN ARE SHEET METAL SIZES.
2. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 8'-0".
3. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON THE ORIGINAL DESIGN DRAWINGS AND FIELD SURVEY. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
4. CLOSELY INSPECT EXISTING DUCT MAINS FOR DUCT LEAKAGE AND DAMAGE TO INSULATION. APPLY PLENUM APPROVED SEALANT TO DUCT JOINTS AND SEAMS WHERE LEAKAGE OCCURS, AND REPAIR DAMAGED INSULATION.
5. ANY DISCREPANCIES BETWEEN LIGHT FIXTURES, THERMOSTATS, AND DIFFUSERS SHOWN ON PLANS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH INSTALLATION.
6. RELOCATE AND RECONNECT EXISTING TERMINAL UNITS AND ASSOCIATED DUCTWORK, CONTROLS, ETC. AS REQUIRED TO AVOID INTERFERENCE WITH NEW FULL HEIGHT PARTITIONS.
7. TEST EVERY TERMINAL UNIT IN AREAS OF CONSTRUCTION TO VERIFY PROPER OPERATION IN BOTH HEATING AND COOLING MODES. PROVIDE REPAIRS AS REQUIRED RETURNING ALL UNITS TO FULLY FUNCTIONAL AND OPERATIONAL CONDITION.
8. RE-CALIBRATE EACH THERMOSTAT INDIVIDUALLY IN AREAS OF CONSTRUCTION.
9. REPLACE ANY THERMOSTAT THAT IS INOPERABLE OR MISSING A COVER WITH A NEW THERMOSTAT. NEW THERMOSTATS SHALL MATCH BASE BUILDING STANDARD THERMOSTATS.
10. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE OF THERMOSTAT, UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT AND FURNISHINGS.
11. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE STOPPED WITH U.L. APPROVED SYSTEMS. DO NOT PAINT OVER FIRE RATED STAMP UNTIL INSPECTED AND APPROVED BY THE FIRE MARSHAL.
12. PROVIDE PRE-FILTER MEDIA OVER ALL RETURN OPENINGS TO MECHANICAL ROOM, ALL AIR HANDLING UNITS AND ALL FAN-POWERED TERMINAL UNITS SERVING AREA UNDER CONSTRUCTION. PRE-FILTER MEDIA SHALL HAVE A MINIMUM RATING OF MERV 8. AT THE END OF CONSTRUCTION, REMOVE ALL PRE-FILTERS AND REPLACE ANY PERMANENT FILTERS WITH NEW, CLEAN MEDIA.
13. ALL CONSOLE UNITS SHALL BE PROTECTED FROM DUST AND DAMAGE DURING CONSTRUCTION. AFTER CONSTRUCTION, UNITS SHALL BE THOROUGHLY CLEANED OF ALL DUST AND DEBRIS INTERNALLY AND EXTERNALLY.
14. DURING CONSTRUCTION, ALL SPRINKLER HEADS, SMOKE DETECTORS AND THERMOSTATS SHALL BE PROTECTED FROM DUST, DEBRIS, PAINT AND DAMAGE. ATTACH THERMOSTATS TO RESPECTIVE EQUIPMENT UNTIL SCHEDULED FOR RE-INSTALLATION.
15. PROVIDE BALANCING DAMPERS IN DUCTWORK WHERE REQUIRED TO EFFECTIVELY BALANCE CONSTANT VOLUME AIR SYSTEMS WITHOUT OBJECTIONABLE NOISE. WHERE BALANCING DAMPERS OCCUR ABOVE INACCESSIBLE CEILINGS, PROVIDE REMOTE DAMPER OPERATORS WITH COAXIAL CABLES AND END BOXES WITH DECORATIVE COVER PLATES (YOUNG REGULATOR OR EQUAL).
16. WHEREVER ACCESS IS REQUIRED THROUGH WALLS OR CEILINGS TO VALVES, FIRE DAMPERS, OR OTHER CONCEALED EQUIPMENT, PROVIDE A HINGED ACCESS DOOR AND FRAME TO BE APPROVED BY THE ARCHITECT SUITABLE FOR THAT SPECIFIC INSTALLATION.
17. ALL CONTROL WORK SHALL BE CONTRACTED TO THE ESTABLISHED BASE BUILDING CONTROL VENDOR UNLESS CONTRACTOR RECEIVES A WRITTEN VARIANCE FROM BUILDING OWNER, OR DULY AUTHORIZED REPRESENTATIVE. ALL NEW CONTROLS SHALL MATCH EXISTING.
18. ALL CONCEALED DUCTWORK, PIPING, AND CONTROLS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC. SHALL BE RELOCATED AND RECONNECTED AS REQUIRED.
19. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND ABOVE FINISHED CEILINGS, UNLESS OTHERWISE NOTED. PROVIDE OFFSETS AS REQUIRED AVOIDING ALL OBSTRUCTIONS.
20. CONSTRUCTION DEBRIS, EXCLUDING EQUIPMENT TO BE RETURNED TO BUILDING STOCK, SHALL BECOME PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PREMISES.

(#) KEY NOTES: (#)

1. PROVIDE NEW 2x2 PLAQUE FACE SUPPLY DIFFUSER.
2. PROVIDE NEW 2x2 PLAQUE FACE RETURN GRILLE.
3. RELOCATED VAV TERMINAL UNIT. COIL THERMOSTAT AT BOX FOR FUTURE TENANT USE.
4. RELOCATE THERMOSTAT AND EXTEND CONTROL WIRING AS REQUIRED.
5. PROVIDE 4'-0" LONG PLENUM SLOT DIFFUSER.
6. 72X18 TRANSFER OPENING WITH WIRE MESH SCREEN AT OPEN ENDS

ARLINGTON
VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7102FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 1808728	PROJ. MGR. LM
MECH. SS	ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

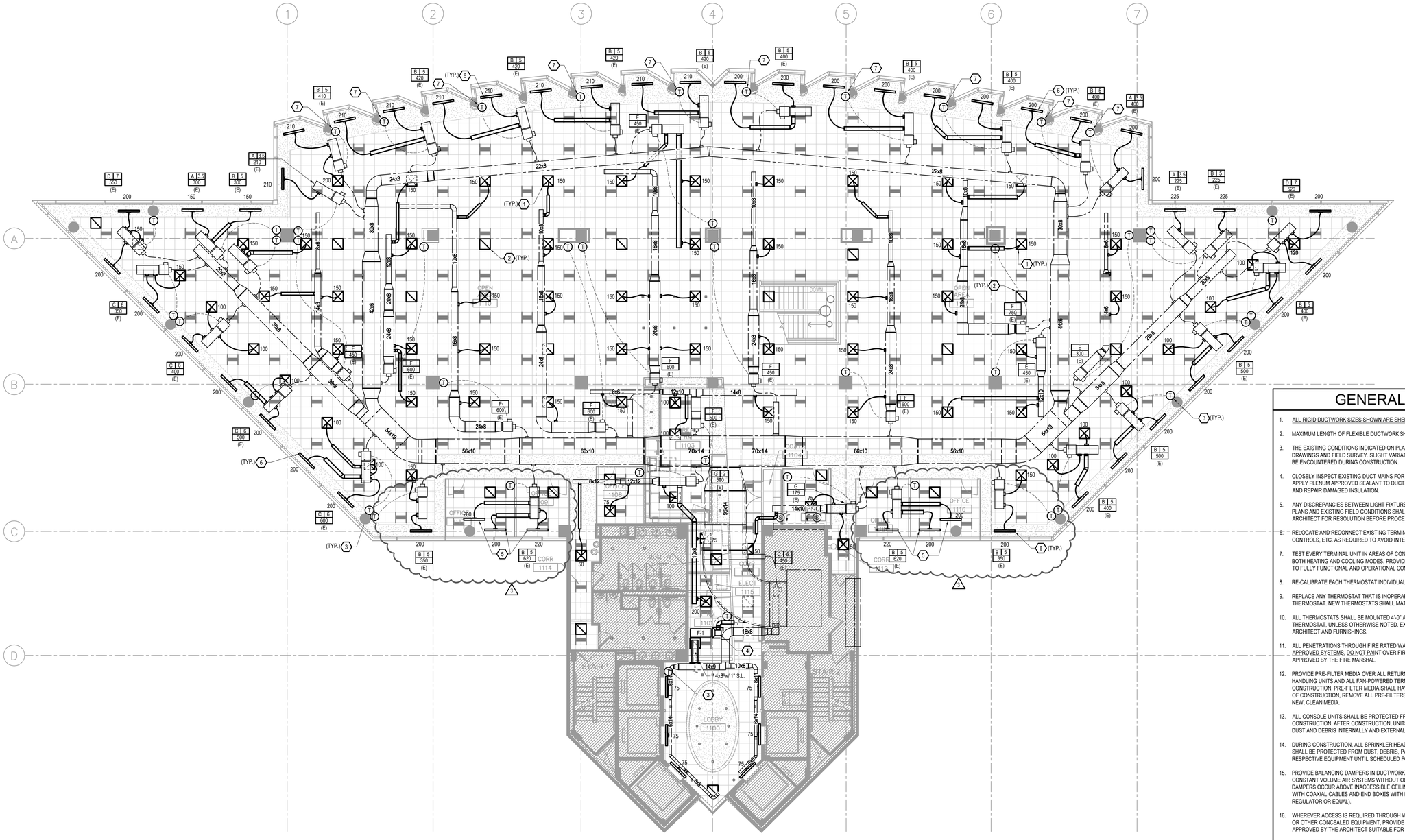
FILE NAME	
JOB NUMBER	11096-011

MECHANICAL 10TH FLOOR NEW WORK PLAN

M210

Plotted By: Shannon Strong | 6/28/17 | 2:21 PM

ARL: K:\90\1808728\M-10th Floor New Work Plan



1 11TH FLOOR NEW WORK PLAN
1/8" = 1'-0"

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

GENERAL NOTES:

1. ALL RIGID DUCTWORK SIZES SHOWN ARE SHEET METAL SIZES.
2. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 8'-0".
3. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON THE ORIGINAL DESIGN DRAWINGS AND FIELD SURVEY. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
4. CLOSELY INSPECT EXISTING DUCT MAINS FOR DUCT LEAKAGE AND DAMAGE TO INSULATION. APPLY PLENUM APPROVED SEALANT TO DUCT JOINTS AND SEAMS WHERE LEAKAGE OCCURS, AND REPAIR DAMAGED INSULATION.
5. ANY DISCREPANCIES BETWEEN LIGHT FIXTURES, THERMOSTATS, AND DIFFUSERS SHOWN ON PLANS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH INSTALLATION.
6. RELOCATE AND RECONNECT EXISTING TERMINAL UNITS AND ASSOCIATED DUCTWORK, CONTROLS, ETC. AS REQUIRED TO AVOID INTERFERENCE WITH NEW FULL HEIGHT PARTITIONS.
7. TEST EVERY TERMINAL UNIT IN AREAS OF CONSTRUCTION TO VERIFY PROPER OPERATION IN BOTH HEATING AND COOLING MODES. PROVIDE REPAIRS AS REQUIRED RETURNING ALL UNITS TO FULLY FUNCTIONAL AND OPERATIONAL CONDITION.
8. RE-CALIBRATE EACH THERMOSTAT INDIVIDUALLY IN AREAS OF CONSTRUCTION.
9. REPLACE ANY THERMOSTAT THAT IS INOPERABLE OR MISSING A COVER WITH A NEW THERMOSTAT. NEW THERMOSTATS SHALL MATCH BASE BUILDING STANDARD THERMOSTATS.
10. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE OF THERMOSTAT, UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE COORDINATED WITH ARCHITECT AND FURNISHINGS.
11. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE STOPPED WITH U.L. APPROVED SYSTEMS. DO NOT PAINT OVER FIRE RATED STAMP UNTIL INSPECTED AND APPROVED BY THE FIRE MARSHAL.
12. PROVIDE PRE-FILTER MEDIA OVER ALL RETURN OPENINGS TO MECHANICAL ROOM, ALL AIR HANDLING UNITS AND ALL FAN-POWERED TERMINAL UNITS SERVING AREA UNDER CONSTRUCTION. PRE-FILTER MEDIA SHALL HAVE A MINIMUM RATING OF MERV 8. AT THE END OF CONSTRUCTION, REMOVE ALL PRE-FILTERS AND REPLACE ANY PERMANENT FILTERS WITH NEW, CLEAN MEDIA.
13. ALL CONSOLE UNITS SHALL BE PROTECTED FROM DUST AND DAMAGE DURING CONSTRUCTION. AFTER CONSTRUCTION, UNITS SHALL BE THOROUGHLY CLEANED OF ALL DUST AND DEBRIS INTERNALLY AND EXTERNALLY.
14. DURING CONSTRUCTION, ALL SPRINKLER HEADS, SMOKE DETECTORS AND THERMOSTATS SHALL BE PROTECTED FROM DUST, DEBRIS, PAINT AND DAMAGE. ATTACH THERMOSTATS TO RESPECTIVE EQUIPMENT UNTIL SCHEDULED FOR RE-INSTALLATION.
15. PROVIDE BALANCING DAMPERS IN DUCTWORK WHERE REQUIRED TO EFFECTIVELY BALANCE CONSTANT VOLUME AIR SYSTEMS WITHOUT OBJECTIONABLE NOISE. WHERE BALANCING DAMPERS OCCUR ABOVE INACCESSIBLE CEILINGS, PROVIDE REMOTE DAMPER OPERATORS WITH COAXIAL CABLES AND END BOXES WITH DECORATIVE COVER PLATES (YOUNG REGULATOR OR EQUAL).
16. WHEREVER ACCESS IS REQUIRED THROUGH WALLS OR CEILINGS TO VALVES, FIRE DAMPERS, OR OTHER CONCEALED EQUIPMENT, PROVIDE A HINGED ACCESS DOOR AND FRAME TO BE APPROVED BY THE ARCHITECT SUITABLE FOR THAT SPECIFIC INSTALLATION.
17. ALL CONTROL WORK SHALL BE CONTRACTED TO THE ESTABLISHED BASE BUILDING CONTROL VENDOR UNLESS CONTRACTOR RECEIVES A WRITTEN VARIANCE FROM BUILDING OWNER, OR DULY AUTHORIZED REPRESENTATIVE. ALL NEW CONTROLS SHALL MATCH EXISTING.
18. ALL CONCEALED DUCTWORK, PIPING, AND CONTROLS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC. SHALL BE RELOCATED AND RECONNECTED AS REQUIRED.
19. ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND ABOVE FINISHED CEILINGS, UNLESS OTHERWISE NOTED. PROVIDE OFFSETS AS REQUIRED AVOIDING ALL OBSTRUCTIONS.
20. CONSTRUCTION DEBRIS, EXCLUDING EQUIPMENT TO BE RETURNED TO BUILDING STOCK, SHALL BECOME PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PREMISES.

(#) KEY NOTES: (#)

1. PROVIDE NEW 2x2 PLAQUE FACE SUPPLY DIFFUSER.
2. PROVIDE NEW 2x2 PLAQUE FACE RETURN GRILLE.
3. RELOCATE THERMOSTAT AND EXTEND CONTROL WIRING AS REQUIRED.
4. PROVIDE NEW CEILING HUNG CABINET EXHAUST FAN WITH WALL MOUNTED THERMOSTAT FOR CONTROL.
5. PROVIDE NEW 4'-0" LONG LINEAR PLENUM SLOT DIFFUSER.
6. PROVIDE 4'-0 ARCHITECTURAL LINEAR SLOT DIFFUSER.
7. RELOCATED THERMOSTAT AND EXTEND CONTROL WIRING AS REQUIRED. PROVIDE INSULATION BEHIND THERMOSTAT IN FUR-OUT.

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANMICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No.	1800828	PROJ. MGR.	LM
MECH.	SS	ELEC.	BT	PLUMB.	SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
1	DIRECTIVE # 2	09.21.17
	FOR CONSTRUCTION	09.07.17
	PERMIT REVISION	08.10.17
	ISSUE FOR BID	07.21.17
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

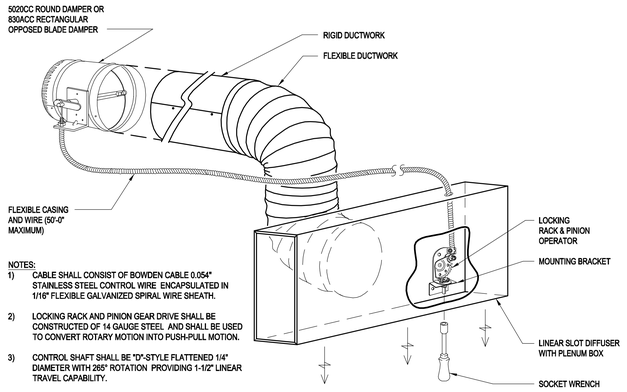
FILE NAME	
JOB NUMBER	11096-011

MECHANICAL 11TH FLOOR NEW WORK PLAN

M211

Plotted By: Shannon Strong | 9/21/17 | 2:29 PM

ARL: K:\96\1880828\Arl—11th Floor New Work Plan



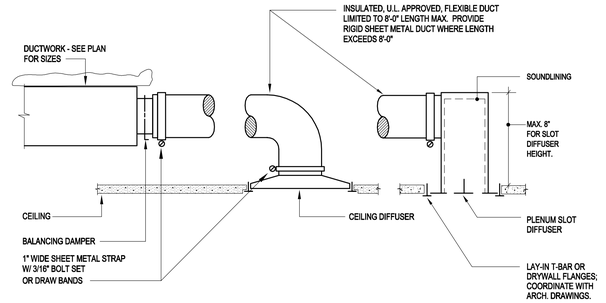
NOTES:

1) CABLE SHALL CONSIST OF BOWDEN CABLE 0.054" STAINLESS STEEL CONTROL WIRE ENCAPSULATED IN 1/16" FLEXIBLE GALVANIZED SPIRAL WIRE SHEATH.

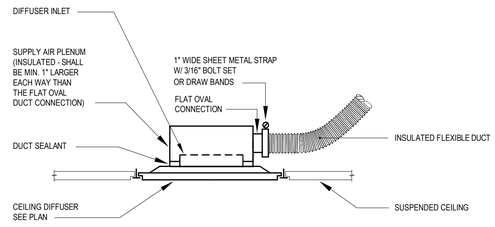
2) LOCKING RACK AND PINION GEAR DRIVE SHALL BE CONSTRUCTED OF 14 GAUGE STEEL AND SHALL BE USED TO CONVERT ROTARY MOTION INTO PUSH-PULL MOTION.

3) CONTROL SHAFT SHALL BE "D"-STYLE FLATTENED 1/4" DIAMETER WITH 265° ROTATION PROVIDING 1-1/2" LINEAR TRAVEL CAPABILITY.

1	REMOTE DAMPER OPERATOR DETAIL
M501	SCALE : NONE



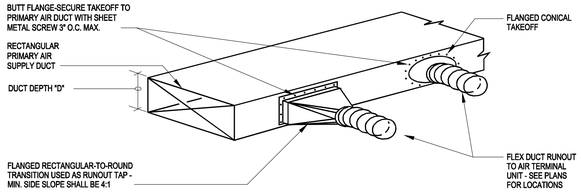
2	CEILING DIFFUSER CONNECTION DETAIL
M501	SCALE : NONE



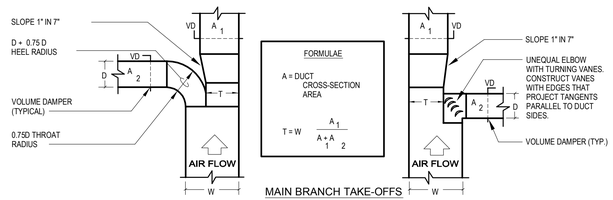
3	CEILING DIFFUSER CONNECTION ALTERNATE
M501	SCALE : NONE

(USE ONLY WHERE SPACE IS RESTRICTED)

TABLE OF TAKEOFF SIZES					
DUCT DEPTH	FLEX DUCT RUNOUT SIZES				
"D"	6"Ø	8"Ø	10"Ø	12"Ø	14"Ø
6"	12x4	18x4	24x4	NA	NA
8"	6"Øx7"Ø CONICAL	12x6	18x6	20x6	26x6
10"	6"Øx7"Ø CONICAL	8"Øx10"Ø CONICAL	14x8	20x8	26x8
12"	6"Øx7"Ø CONICAL	8"Øx10"Ø CONICAL	10"Øx12"Ø CONICAL	16x10	22x10
14"	6"Øx7"Ø CONICAL	8"Øx10"Ø CONICAL	10"Øx12"Ø CONICAL	14x12	20x12

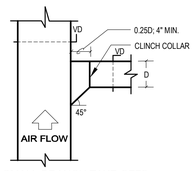


4	TYPICAL PRIMARY AIR DUCT TAKEOFF
M501	TO AIR TERMINAL UNIT
	SCALE : NONE

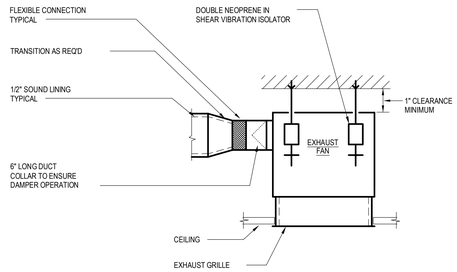


NOTES:

1. DETAILS APPLY TO ALL LOW PRESSURE CONSTANT VOLUME DUCT SYSTEMS AND SUB-SYSTEMS.
2. DETAILS APPLY TO ALL DUCTWORK DOWNSTREAM OF AIR TERMINAL UNITS.
3. FOR OTHER SPECIFIC LOCATIONS, REFER TO PLANS.



5	CONSTANT AIR VOLUME SYSTEM TAKE-OFF DETAIL
M501	(2" PRESSURE CLASS & LESS)
	SCALE : NONE



6	CEILING MOUNTED CABINET EXHAUST FAN DETAIL
M501	SCALE : NONE

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7172FAX WWW.MORGANGRICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No.	18808728	PROJ. MGR.	LM
MECH.	SS	ELEC.	BT	PLUMB.	SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME	
JOB NUMBER	11096-011

MECHANICAL
DETAIL SHEET

M501

10th Floor Ventilation Schedule

Room No.	Room Type	Area (SF)	Area-Based Rate	Occupant Density	# People	People-Based Rate	Area-Based OA CFM	People-Based OA CFM	Uncorrected OA CFM		Corrected OA CFM	Supply CFM	OA Fraction
		Az	Ra	#/1000 SF	Pz	Rp			Vbz	Ez	Voz	Vpz	Zp
1008	WORK AREA	178	0.06	5	1	5	11	5	16	1.0	16	100	0.16
1009	RECEPTION	319	0.06	30	10	5	19	50	69	1.0	69	300	0.23
1010	STAIR VESTIBULE	104	0.06	0	0	5	6	0	6	1.0	6	50	0.12
1011	OFFICE	166	0.06	5	1	5	10	5	15	1.0	15	100	0.15
1012	CONFERENCE	477	0.06	50	24	5	29	120	149	0.8	186	800	0.23
1013	OFFICE	162	0.06	5	1	5	10	5	15	0.8	18	350	0.05
1014	CONFERENCE	313	0.06	50	16	5	19	80	99	0.8	123	650	0.19
1015	OFFICE	139	0.06	5	1	5	8	5	13	1.0	13	100	0.13
1016	OFFICE	139	0.06	5	1	5	8	5	13	1.0	13	100	0.13
1017	OFFICE	133	0.06	5	1	5	8	5	13	1.0	13	100	0.13
1018	GALLEY	104	0.06	30	4	5	6	20	26	1.0	26	100	0.26
1019	OFFICE	179	0.06	5	1	5	11	5	16	1.0	16	100	0.16
1021	CORRIDOR	320	0.06	0	0	5	19	0	19	1.0	19	100	0.19
	OFFICE NIC	10608	0.06	5	54	5	636	270	906	0.8	1197	10608	0.11
	CONFERENCE NIC	1179	0.06	50	59	5	71	295	366	0.8	488	2594	0.19
	Totals	14,520			174		871	870	1,741		2,219	16,152	

Total Required OA 1962 CFM
% OA 12%

*Note: Area NIC is assumed to be 90% Office and 10% Conference.

System Population Ps 174

Base Building System Information
Total Supply Air (CFM) 16152
Total Outdoor Air (CFM) 2200
Outdoor Air Percentage 14%

Sum of Zone Populations Total Pz 174
Population Diversity D 1.00
Uncorrected OA Vou 1741
Max %OA Max Zp 0.26
Ventilation Efficiency Ev 0.89

11th Floor Ventilation Schedule

Room No.	Room Type	Area (SF)	Area-Based Rate	Occupant Density	# People	People-Based Rate	Area-Based OA CFM	People-Based OA CFM	Uncorrected OA CFM		Corrected OA CFM	Supply CFM	OA Fraction
		Az	Ra	#/1000 SF	Pz	Rp			Vbz	Ez	Voz	Vpz	Zp
1100	LOBBY	448	0.06	10	5	5	27	25	52	0.8	65	450	0.14
1101	IT ROOM	96	0.06	5	1	5	6	5	11	1.0	11	200	0.05
1102	MOM / STOR	99	0.06	5	1	5	6	5	11	1.0	11	75	0.15
1103	BREAK ROOM	301	0.06	30	6	5	18	30	48	1.0	48	300	0.16
1105	OFFICE	97	0.06	5	1	5	6	5	11	1.0	11	75	0.14
1106	OFFICE	105	0.06	5	1	5	6	5	11	0.8	14	200	0.07
1108	OFFICE	97	0.06	5	1	5	6	5	11	1.0	11	75	0.14
1109	OFFICE	106	0.06	5	1	5	6	5	11	0.8	14	220	0.06
1110-1	OPEN AREA	318	0.06	5	4	5	19	20	39	0.8	49	700	0.07
1110-2	OPEN AREA	862	0.06	5	18	5	52	90	142	0.8	177	1700	0.10
1110-3	OPEN AREA	357	0.06	5	4	5	21	20	41	0.8	52	700	0.07
1110-4	OPEN AREA	474	0.06	5	4	5	28	20	48	0.8	61	550	0.11
1110-5	OPEN AREA	1182	0.06	5	18	5	71	90	161	0.8	201	2300	0.09
1110-6	OPEN AREA	3764	0.06	5	38	5	226	190	416	1.0	416	3450	0.12
1111-1	OPEN AREA	317	0.06	5	4	5	19	20	39	0.8	49	620	0.08
1111-2	OPEN AREA	862	0.06	5	18	5	52	90	142	0.8	177	1700	0.10
1111-3	OPEN AREA	360	0.06	5	4	5	22	20	42	0.8	52	700	0.07
1111-4	OPEN AREA	474	0.06	5	4	5	28	20	48	0.8	61	650	0.09
1111-5	OPEN AREA	1182	0.06	5	18	5	71	90	161	0.8	201	2000	0.10
1111-6	OPEN AREA	4060	0.06	5	36	5	244	180	424	1.0	424	2550	0.17
1112	CORRIDOR	85	0.06	0	0	5	5	0	5	0.8	6	50	0.13
1113	CORRIDOR	224	0.06	0	0	5	13	0	13	1.0	13	50	0.27
1114	CORRIDOR	153	0.06	0	0	5	9	0	9	0.8	11	50	0.23
	Totals	16,023			187		961	935	1,896		2,135	19,365	

Total Required OA 2152 CFM
% OA 11%

System Population Ps 187

Base Building System Information
Total Supply Air (CFM) 19365
Total Outdoor Air (CFM) 2200
Outdoor Air Percentage 11%

Sum of Zone Populations Total Pz 187
Population Diversity D 1.00
Uncorrected OA Vou 1896
Max %OA Max Zp 0.27
Ventilation Efficiency Ev 0.88

EXISTING VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

DESIG.	CFM RANGE	INLET SIZE	MIN. INLET S.P.	HEATING				BASED ON MAGNAFLOW
				CFM	STEPS	HEATER KW	VOLTAGE	
A	40 - 400	6"Ø	0.25	240	2	3.5	480 / 3	ESVE-6
B	80 - 800	8"Ø	0.25	360	2	5.0	480 / 3	ESVE-8
C	120 - 1100	11x8"Ø	0.25	400	2	6.0	480 / 3	ESVE-10
D	120 - 1100	11x8"Ø	0.25	450	2	7.0	480 / 3	ESVE-10
E	80 - 800	8"Ø	0.25	-	-	-	-	ESVE-8
F	110 - 1100	11x8"Ø	0.25	-	-	-	-	ESVE-10
G	80 - 800	8"Ø	0.25	140	2	2.0	480 / 3	ESVE-8
H	110 - 1100	11x8"Ø	0.25	210	2	3.0	480 / 3	ESVE-10

** SCHEDULE PROVIDED FOR REFERENCE ONLY

FAN SCHEDULE

DESIG. F-	SERVICE	DESCRIPTION	CFM	E.S.P. "H_2O	ELEC. DATA V/Ø	HP OR WATTS	ACCESSORIES	BASIS OF DESIGN
F-1	LAN ROOM	C, CF, DD	250	0.125	120V / 1Ø	90 WATTS	D, SC, TC, VI	COOK GC-422
-	-	-	-	-	-	-	-	-

ABBREVIATIONS

AF	AIR FOIL	MB	MOUNTING BASE	THD	TOP HORIZONTAL DISCHARGE
BD	BELT DRIVE	MD	MOTORIZED DAMPER	UB	UP BLAST DISCHARGE
BG	BELT GUARD	OG	OUTLET WIRE GUARD	US	UTILITY SET
BS	BIRD SCREEN	OS	OUTLET SHUTTER	VI	VIBRATION ISOLATORS
C	CENTRIFUGAL	P	PROPELLER	WC	WALL CAP
CE	CENTRIFUGAL EXHAUSTER	PC	PREFABRICATED CURB	WP	WEATHERPROOF ENCLOSURE
CF	CEILING FAN	PRV	POWER ROOF VENTILATOR		
D	DISCONNECT SWITCH	SA	SUPPLY AIR		
DD	DIRECT DRIVE	SC	SPEED CONTROL		
GD	GRAVITY DAMPER	TA	TUBE AXIAL		
IG	INLET WIRE GUARD	TC	THERMOSTATICALLY CONTROLLED		
IL	IN LINE				

SEQUENCE OF OPERATION

FAN F-1:
FAN SHALL BE ENERGIZED AND CYCLE ON/OFF IN RESPONSE TO WALL MOUNTED THERMOSTAT. INITIAL TEMPERATURE SET POINT SHALL BE 75° F (ADJ.)

ARCHITECTURAL SLOT DIFFUSER SCHEDULE

DESIGN RANGE CFM	INLET NECK SIZE	ACTIVE PLENUM LENGTH	NUMBER OF SLOTS - SLOT WIDTH	MAX. NC	BASIS OF DESIGN:
200 - 230	8" Ø	4' - 0"	1 SLOT - 1.5 INCH	24	TITUS FL-15
0 - 85 (RETURN)	N/A	1' - 0"	1 SLOT - 1.5 INCH	24	TITUS FL-15

NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TOTAL EXACT DIFFUSER LENGTHS AND DIFFUSER OPTIONS (COLOR, FLANGE TYPE, ETC.) WITH ARCHITECT AND MANUFACTURER PRIOR TO ORDER AND INSTALLATION.
2. CONTINUOUS LINEAR SLOT DIFFUSER SHALL BE PROVIDED AND INSTALLED ONLY IN HARD CEILING APPLICATIONS.
3. PROVIDE INSULATED FACTORY PLENUM FOR ALL SUPPLY DIFFUSERS. FIELD FABRICATED PLENUMS WILL BE ACCEPTABLE ONLY IF FIELD CONDITIONS DICTATE THEIR NECESSITY.
5. PROVIDE CONTINUOUS LINEAR SLOT DIFFUSERS, HIGHTHROW WITH TITUS PLENUM (FL SERIES).
6. INACTIVE DIFFUSER SECTIONS SHALL BE PROVIDED WITH LIGHT SHIELDS AND REMAIN OPEN TO THE CEILING PLENUM U.O.N.
7. INACTIVE DIFFUSER SECTIONS SHALL MATCH SLOT QUANTITY AND WIDTH OF ADJACENT ACTIVE DIFFUSER SECTION U.O.N.
8. PROVIDE YOUNG REGULATORS FOR AIR BALANCING ON ALL DIFFUSERS IN HARD CEILINGS. ADJUSTMENT OF REGULATOR SHALL BE DONE THROUGH DIFFUSER OPENING. NO ACCESS PANELS IN HARD CEILING.
9. PROVIDE WITH MUD IN FINISH.

PLENUM SLOT DIFFUSER SCHEDULE

SUPPLY AIR CAPACITY CFM (MAX.)	PLENUM LENGTH	INLET DIAMETER	# OF SLOTS	SLOT WIDTH	N.C. LEVEL AT MAX. CFM	BASIS OF DESIGN
121 - 225	4'-0"	8"Ø	2	1"	20	TITUS TBDI-80
226 - 270	4'-0"	10"Ø	2	1"	17	TITUS TBDI-80
271 - 320	4'-0"	12"Ø	2	1"	18	TITUS TBDI-80

NOTES:
1. PROVIDE ADJUSTABLE, GASKET-TIPPED BLADE PLENUM SLOT DIFFUSER. PLENUM SHALL HAVE 1/2" INTERNAL SOUND LINING. MAXIMUM HEIGHT OF PLENUM IS 11-1/2 INCHES. PROVIDE PLENUMS WITH OVAL DUCT CONNECTIONS. FIELD-FABRICATED PLENUMS ARE NOT ACCEPTABLE.
2. ALL DIFFUSERS SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING GRID AS REQUIRED.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIFFUSER MOUNTING OPTIONS (CEILING GRID, DRYWALL, ETC.) W/ ARCHITECT AND MANUFACTURER PRIOR TO ORDERING AND INSTALLING.
4. ALL DIFFUSERS SHALL BE PROVIDED WITH TWO BLADES PER SLOT. CONTRACTOR SHALL ADJUST BOTH BLADES ON ONE SIDE OF THE DIFFUSER TO DIRECT AIRFLOW DOWNWARD ALONG THE PERIMETER WALL. BOTH BLADES ON THE OTHER SIDE OF THE DIFFUSER SHALL DIRECT AIRFLOW HORIZONTALLY ACROSS THE CEILING TOWARD THE INTERIOR OF THE SPACE.

PLAQUE FACED PANEL CEILING DIFFUSER NECK SCHEDULE

CFM RANGE	NECK SIZE	N.C. LEVEL AT MAX. CFM	BASIS OF DESIGN
0-120	6" Ø	35	TITUS OMNI
121-210	8" Ø	35	TITUS OMNI
211-320	10" Ø	35	TITUS OMNI
321-450	12" Ø	35	TITUS OMNI
451-550	14" Ø	35	TITUS OMNI

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINNA 22046
703.538.7100 703.538.7102FAX WWW.MORGANGRICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME
JOB NUMBER 11096-011

MECHANICAL SCHEDULE SHEET

M601

Plotted By: Shannon Strong | 6/28/17 | 2:23 PM

ARL: K:\90\18808728\M-Schedule Sheet

ARLINGTON
VIRGINIA
Approved: 10/27/2017

PLUMBING GENERAL NOTES

GENERAL:

1. MATERIALS, PRODUCTS, AND INSTALLATION SHALL BE SIMILAR TO EXISTING CONDITIONS AND SHALL BE IN COMPLIANCE WITH CURRENT CODE AND AUTHORITY REQUIREMENTS, UNLESS OTHERWISE SPECIFICALLY IDENTIFIED HEREIN.
2. ENGINEER'S CONSTRUCTION PHASE SERVICES ARE INTENDED TO BENEFIT THE CLIENT ONLY. SERVICES RENDERED BY ENGINEER DO NOT RELIEVE CONTRACTOR FROM OBLIGATIONS OF THE CONSTRUCTION DOCUMENTS. ENGINEER DOES NOT HAVE THE AUTHORITY TO SUPERVISE, DIRECT, OR CONTROL THE CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR FOR SAFETY PROGRAMS OR PRECAUTIONS DURING CONSTRUCTION. ENGINEER IS NOT RESPONSIBLE FOR CONTRACTOR'S FAILURE TO PERFORM THE WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS OR APPLICABLE LAWS, CODES, OR REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
3. NOTIFY THE ARCHITECT AND ENGINEER FIVE WORKING DAYS PRIOR TO CLOSE-IN OF FLOORS, CEILINGS, WALLS, AND TRENCHES TO PROVIDE ENGINEER OPPORTUNITY FOR VISUAL OBSERVATION OF CONCEALED INSTALLATIONS PRIOR TO CLOSE-IN. CONTRACTORS FAILURE TO PROVIDE REQUIRED NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR OF PROVIDING VISUAL OBSERVATION BY THE ENGINEER, INCLUDING REMOVING AND REPLACING OBSTRUCTIONS, COVERINGS, AND FINISHES AT NO ADDITIONAL COST.
4. ENGINEER MAY CONSIDER DEVIATIONS AND SUBSTITUTIONS WHEN SUBMITTED ITEM IS CLEARLY AND SPECIFICALLY IDENTIFIED IN SUBMITTAL. ENGINEER SHALL NOT BE RESPONSIBLE FOR SUBSTITUTIONS OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, NOT SPECIFICALLY IDENTIFIED AND SUBMITTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND PAYMENT FOR, PERMITS, TESTS, TAP FEES, CONNECTION FEES, AND ARRANGEMENTS FOR INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.
6. NOTIFY OWNER'S REPRESENTATIVE AT LEAST TWO WORKING DAYS PRIOR TO INTERRUPTION OF BUILDING UTILITIES, SERVICES, OR ACCESS. CONTRACTOR SHALL OBTAIN PRIOR WRITTEN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE.
7. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF SYSTEMS AND COMPONENTS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH THE WORK OF ALL TRADES/DIVISIONS PRIOR TO INSTALLATION.
8. THE WORD "PROVIDE" IDENTIFIES THE REQUIREMENT TO FURNISH AND INSTALL A COMPLETE SYSTEM WITH ALL COMPONENTS, ACCESSORIES, TESTS, AND ADJUSTED AS NECESSARY TO RENDER A FULLY OPERATIONAL AND COMPLETE WORKING SYSTEM. THE WORD "PIPING" IDENTIFIES PIPE, JOINTS, FITTINGS, VALVES, CONTROLS, INSULATION, ADAPTERS, SUPPORT, HANGERS, DEVICES, AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM AS REQUIRED BY CODE.
9. SUBMIT A SCALED DRAWING WITH DIMENSIONED LOCATION AND SIZE OF ALL STRUCTURAL SLAB, FLOOR, AND WALL PENETRATIONS BEARING THE REVIEW AND APPROVAL SEAL OF A STRUCTURAL REGISTERED PROFESSIONAL ENGINEER, PRIOR TO BEGINNING OF WORK.
9. PROVIDE CUTTING, PATCHING, AND/OR CORE DRILLING OF EXISTING WALLS, FLOORS, OR STRUCTURAL MEMBERS AS REQUIRED FOR THE INSTALLATION OF NEW WORK. OBTAIN A STRUCTURAL ENGINEER'S REVIEW AND APPROVAL, AND INFORM THE OWNER OR THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING THIS WORK. UNLESS OTHERWISE DIRECTED BY THE STRUCTURAL ENGINEER AND PRIOR TO CORE DRILLING, PERFORM X-RAYS OF AREAS TO BE PENETRATED TO VERIFY THE SLAB IS FREE OF OBSTRUCTIONS, OR CONFIRM WITH THE BUILDING OWNER IF GROUND PENETRATING RADAR (GPR) IS AN ACCEPTABLE ALTERNATE TO X-RAY.
10. FIRE SAFE (IN COMPLIANCE WITH AUTHORITY APPROVED UL LISTINGS) AND SEAL ALL PENETRATIONS WATERTIGHT, PRIOR TO CLOSE-IN. FAILURE TO DO SO WILL BE AT CONTRACTOR'S RISK AND EXPENSE SHOULD ANY DAMAGE OCCUR.
11. COORDINATE WORK WITH THE NEW WORK AND EXISTING CONDITIONS OF ALL TRADES, BOTH ABOVE CEILING AND BELOW FLOOR/GRADE. MINOR DEVIATIONS FROM DRAWINGS MAY BE REQUIRED FOR COORDINATION WITH NEW AND EXISTING CONDITIONS.
12. DAMAGES TO EXISTING CONDITIONS, EQUIPMENT, OR APPARATUS DURING THE EXECUTION OF THIS CONTRACT SHALL BE REPAIRED/REPLACED TO MATCH ORIGINAL CONDITION AT NO ADDITIONAL COST TO OWNER.
13. PENETRATIONS SHALL COMPLY WITH IBC 714.1. THROUGH PENETRATIONS OF SLABS AND FIRE RESISTANCE RATED NON-SLAB HORIZONTAL ASSEMBLIES, WALLS, PARTITIONS, AND SHAFT ENCLOSURES SHALL BE PROTECTED BY AND APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER. FIRESTOP SYSTEMS AT SLAB PENETRATIONS SHALL HAVE AN F RATING/ T RATING OF 2 HOURS. FIRESTOP SYSTEMS AT PENETRATIONS OF FIRE-RESISTANCE RATED NON-SLAB HORIZONTAL ASSEMBLIES, WALLS, PARTITIONS AND SHAFT ENCLOSURES SHALL HAVE AN F RATING OF NOT LESS THAN THAT OF THE ASSEMBLY PENETRATED.
14. PROVIDE DIELECTRIC PIPING UNIONS BETWEEN DISSIMILAR METALS.
15. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.
16. THOROUGHLY CLEAN WORK AREA DAILY AND REMOVE ALL TRASH AND DEBRIS FROM SITE AFTER COMPLETION OF THE CONTRACT.

DEMOLITION AND SALVAGE :

1. REMOVE EXISTING PIPING SYSTEMS NO LONGER REQUIRED FOR A NEW OR ACTIVE SYSTEM WITHIN THE AREA BEING MODIFIED. PROVIDE LABOR AND MATERIAL TO ACHIEVE SUCH ENDS. VISIT THE SITE AND EXAMINE CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BIDS. IDENTIFY TO THE ENGINEER OBSERVED FAULTS OR AMBIGUITY IN THE CONTRACT DOCUMENTS, AND PROVIDE OPPORTUNITY FOR RESOLUTION PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF BID CONSTITUTES THE CONTRACTOR'S ACKNOWLEDGMENT OF ACCEPTANCE OF THE CONTRACT DOCUMENTS AS AN ADEQUATE DEFINITION OF SCOPE OF WORK. CONTRACTOR'S EXTRA COST CLAIMS BASED ON INADEQUACY OF CONTRACT DOCUMENTS SHALL NOT BE CONSIDERED OR ACCEPTED.
2. WORK INDICATED TO BE DEMOLISHED, ON THESE PLANS, IS BASED ON DOCUMENTS REPRESENTATIVE OF EXISTING CONDITIONS MADE AVAILABLE TO THE ENGINEER, AND FIELD OBSERVATIONS WHERE MADE ACCESSIBLE TO THE ENGINEER. ADVISE THE ENGINEER OF DISCREPANCIES THAT AFFECT THE PROPOSED WORK, PRIOR TO BEGINNING THE WORK.
3. DEMOLITION REFUSE OF EXISTING SYSTEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, REMEDIATION, AND HAZARDOUS WASTE DISPOSAL REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS, PERMITS, FEES, AND MEANS NECESSARY FOR PROPER REMOVAL, CONTAINMENT, REMEDIATION, AND DISPOSAL OF MATERIALS.
4. SALVAGE SPECIFIC MATERIALS AND EQUIPMENT IDENTIFIED AND WHEN SO DIRECTED BY THE OWNER, ARCHITECT, ENGINEER, AND/OR CONTRACT DOCUMENTS.
5. COORDINATE DEMOLITION AND SALVAGE OF EXISTING SYSTEMS WITH NEW WORK AND EXISTING CONDITIONS OF ALL DIVISIONS. MINOR DEVIATIONS MAY BE REQUIRED FOR COORDINATION WITH NEW AND EXISTING CONDITIONS.
6. REMOVE ALL PLUMBING AND FIRE PROTECTION PIPING, EQUIPMENT, FIXTURES, AND APPURTENANCES NO LONGER REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. ELIMINATE PROHIBITED SANITARY DEAD-ENDS TO SATISFY CODE REQUIREMENTS. PLUG/CAP PIPE DEAD-ENDS BACK AT THE MAIN/RISER.
7. THE WORK INCLUDES REQUIRED AND NECESSARY MODIFICATIONS, EXTENSIONS, ADAPTERS, REPAIRS, CUTTING, PATCHING, AND INCIDENTAL WORK THERETO, AS REQUIRED TO MAINTAIN THE OPERATION AND USE OF THE EXISTING SYSTEMS AND PIPING TO REMAIN ACTIVE.
8. CONTRACTOR SHALL MAINTAIN THE FIRE INTEGRITY OF THE BUILDING. REPAIR/REPLACE EXISTING FIRE THROUGH-PENETRATIONS, NO LONGER REQUIRED, WHERE PIPING IS REMOVED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING AND/OR NEW CONDITIONS DURING THE EXECUTION OF THIS CONTRACT, AND SHALL REPAIR/REPLACE, SIMILAR, TO THE SATISFACTION OF THE ARCHITECT AND/OR OWNER.

PLUMBING:

1. PROVIDE WORK CONFORMING IN ALL RESPECTS TO THE LATEST APPLICABLE CODES OF THE AUTHORITIES HAVING JURISDICTION, AND ALL APPLICABLE RULES, REGULATIONS, LAWS AND ORDINANCES OF FEDERAL AND LOCAL AUTHORITIES. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH ACCEPTED INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS AND ROUGH-IN DIMENSIONS.
3. CONTRACTOR SHALL VERIFY EXISTING PIPE INVERT ELEVATIONS AND PIPING CONNECTIONS PRIOR TO CONSTRUCTION AND SHALL PROMPTLY NOTIFY ENGINEER IN THE EVENT OF A DISCREPANCY PRIOR TO ANY WORK.
4. SANITARY AND VENT PIPING SHALL BE:
   A. CAST IRON (ASTM-A-888), CISPI STANDARD 301, SERVICE WEIGHT, WITH CAST IRON FITTINGS AND HUBLESS JOISTS CONFIRMING TO CISPI STANDARD 310, HUBLESS GASKETS SHALL CONFORM TO ASTM STANDARD C-564.
   B. TYPE "DWV" COPPER WITH SOLDER DWV FITTINGS AND JOINTS.
   C. PVC PIPING SHALL NOT BE USED.
   D. PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF:
      1) 1/8" (1%) FOR PIPES 3-INCHES AND LARGER
      2) 1/4" (2%) FOR PIPES SMALLER THAN 3-INCHES
5. DOMESTIC WATER PIPING SHALL BE "TYPE - L" COPPER WITH SOLDERED JOISTS AND FITTINGS, INSULATED WITH 1/2" THICK GLASS FIBER INSULATION WITH A FLAME RETARDANT VAPOR BARRIER JACKET FOR 1-1/4" PIPE AND SMALLER. PROVIDE 1" THICK GLASS FIBER INSULATION WITH A FLAME RETARDANT VAPOR BARRIER JACKET FOR 1-1/2" PIPE AND LARGER. INSULATION SHALL BE CONTINUOUS THROUGH PIPE HANGERS AND PROVIDED WITH A GALVANIZED STEEL INSULATION SHIELD. HOT WATER PIPE AND HOT WATER RETURN PIPE SHALL BE INSULATED WITH 1" THICK GLASS FIBER INSULATION WITH FLAME RETARDANT VAPOR BARRIER JACKET AND CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT SQUARE X °F (1.53 W PER 25 MM/M SQUARE X K). R VALUE TO BE AT LEAST R-3.
6. WATER SUPPLY PIPE FOR APPLIANCES SHALL BE FLEXIBLE COPPER PIPE WITH SOLDERED JOISTS.
7. STORAGE TYPE WATER HEATERS SHALL BE PROVIDED WITH CODE APPROVED (24 GAUGE GALVANIZED STEEL) DRIP PANS, NOT LESS THAN 1-1/2" DEEP WITH 1" PAN DRAIN, SEPARATELY, EXTEND TEMPERATURE AND PRESSURE RELIEF VALVE DISCHARGE AND 1" DRAIN PAN DRAIN TO SPILL DIRECTLY OVER DRAIN RECEPTOR OR AS INDICATED ON DRAWING.
8. EXTENSIONS OF, AND NEW CONNECTIONS TO, EXISTING PIPING SYSTEMS SHALL BE MADE WITH MATERIALS OF SAME TYPE, RATING, AND COMPOSITION AS EXISTING PIPING, UNLESS OTHERWISE IDENTIFIED HEREIN.
9. VALVES AND PIPING ACCESSORIES SHALL BE LINE SIZE. PROVIDE 1/4 TURN SUPPLY STOP VALVES AT ALL NON-FLUSH VALVE TYPE FIXTURES. ALL VALVES AND FITTINGS SHALL BE NSF 61/ ANSI APPROVED FOR LOW LEAD OR LEAD FREE. BALL VALVES SHALL BE BRASS FULL PORT, 1/4 TURN WITH SOLDERED JOISTS.
10. PROVIDE (1) ONE TRAP PRIMER VALVE FOR EACH FLOOR DRAIN. CONNECT TO NEAREST COLD WATER SUPPLY SERVING A FIXTURE. MAINTAIN ACCESSIBILITY TO TRAP PRIMER VALVES.
11. PROVIDE CODE COMPLIANT (ASSE) BACKFLOW PREVENTER WITH SHUT OFF VALVES, UNION, AND ESCUTCHEON AT EACH EQUIPMENT CONNECTION THAT REQUIRES A POTABLE WATER CONNECTION.
12. CONTRACTOR IS PROHIBITED FROM USING LEAD-BASED SOLDER.
13. PURGE NEW OR REPAIR POTABLE WATER SYSTEMS OF DELETERIOUS MATTER AND DISINFECT PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE IN ACCORDANCE WITH THE HEALTH AUTHORITIES AND/OR BY AWWA C651.

FIRE PROTECTION:

1. THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM.
2. MODIFY THE EXISTING FIRE PROTECTION SYSTEMS, BRANCHES, RUNOUTS, HEADS, AND APPURTENANCES, AS REQUIRED TO ACCOMMODATE THE NEW LAYOUT, AS INDICATED ON THE ARCHITECTURAL DOCUMENTS, AND RENDER THE AREAS BEING MODIFIED AS "FULLY SPRINKLED" IN COMPLIANCE WITH NFPA-13, AND THE AUTHORITY HAVING JURISDICTION.
3. MODIFY EXISTING FIRE PROTECTION SYSTEMS, BACK TO THE SOURCE, AS REQUIRED TO PROVIDE THE HYDRAULIC DEMANDS OF THE NEW WORK AND SUPPLY PIPING IN COMPLIANCE WITH NFPA-13, AND THE AUTHORITY HAVING JURISDICTION. ALL NEW SPRINKLER PIPING SHALL BE COORDINATED WITH NEW AND EXISTING OBSTRUCTIONS, INCLUDING, BUT NOT LIMITED TO, CEILING ELEVATION CHANGES, PIPING, DUCTWORK, AIR DEVICES, LIGHTING, PROJECTION SCREENS, EQUIPMENT, AND STRUCTURAL MEMBERS.
4. COORDINATE WITH THE WORK OF ALL DIVISIONS.
5. OBTAIN AND COMPLY WITH ALL BUILDING OWNER'S FIRE PROTECTION STANDARDS AND INSURANCE REQUIREMENTS.
6. SHOP DRAWING SUBMITTALS SHALL BEAR THE "REVIEW COMMENTS" AND "APPROVAL SEAL" OF THE FIRE MARSHAL HAVING JURISDICTION.
7. PROVIDE INSTALLATION AND MATERIALS COMPLIANT WITH THE LATEST ADOPTED EDITION(S) OF NFPA AND REQUIREMENTS OF THE LOCAL FIRE MARSHAL. MATERIALS AND FINISHES SHALL EXACTLY MATCH THOSE OF THE EXISTING FINISHED CONDITIONS IN SIMILAR ADJACENT AREAS OR IN ACCORDANCE TO THE OWNER'S DIRECTION, UNLESS NOTED OTHERWISE HEREIN.
8. DO NOT INSTALL PIPING BENEATH AIR HANDLING DEVICES OR THAT INTERFERE WITH ANY TYPE OF ACCESS PANEL/DOOR. INSTALL PIPING AT LEAST 2-INCHES ABOVE LIGHT FIXTURES TO ALLOW FOR FUTURE RELOCATION OF LIGHT FIXTURES WITHOUT PIPING REMOVAL/MODIFICATIONS.
9. INSTALL SPRINKLER HEADS, IN CODE COMPLIANCE, WHERE SPECIFIC HEAD LOCATIONS HAVE BEEN IDENTIFIED BY THE ARCHITECT. NOTIFY ARCHITECT OF SPRINKLER HEAD LOCATIONS THAT ARE NON-COMPLIANT AND/OR DO NOT SATISFY DENSITY COVERAGE REQUIREMENTS, PRIOR TO DEVELOPMENT OF SPRINKLER PLANS.
10. SPRINKLER HEADS SHALL BE VICTAULIC CORP. FULLY CONCEALED, ADJUSTABLE. UNLESS OTHERWISE DIRECTED BY THE OWNER:
    1) FINISHED AREAS WITH WHITE FINISH, SHALL HAVE FLAT BRIGHT WHITE SPRINKLER HEAD COVER.
    2) FINISHED AREAS WITH OTHER FINISH, SHALL HAVE POLISHED CHROME SPRINKLER HEAD COVER.
    3) UNFINISHED AREAS SHALL HAVE, UPRIGHT BRASS SPRINKLER HEAD.
11. INSTALL SPRINKLER HEADS PER ARCHITECT'S DRAWINGS, SEE ARCHITECT'S REFLECTED CEILING PLAN FOR SPRINKLER HEAD LOCATIONS. WHERE SPRINKLER HEADS ARE NOT SHOWN ON DOCUMENTS, SPRINKLER HEADS SHALL BE IN THE "CENTER OF CEILING TILES" IN SMALLER ROOMS AND CENTERED ONE-WAY IN CEILING TILES OF OPEN AREAS. WHEN BUILDING STANDARDS, OR EXISTING CONDITIONS, REQUIRE SPRINKLER HEADS CENTERED IN CEILING TILES THROUGHOUT (IN BOTH DIRECTIONS), THE CONTRACTOR SHALL COMPLY, AND LOCATE HEADS WITHIN 1-INCH OF CENTER OF CEILING TILE IN BOTH DIRECTIONS.

FIXTURE CONNECTION SCHEDULE

DESCRIPTION	ITEM	WASTE	VENT	HW	CW	REMARKS
PANTRY SINK	SK1	1-1/2"	1-1/2"	1/2"	1/2"	1.8 GPM FAUCET WITH DISPOSER
REFRIGERATOR	REF	-	-	-	1/2"	PROVIDE WATER CONNECTION WITH BACKFLOW PREVENTER
COFFEE MAKER	CM	-	-	-	1/2"	PROVIDE WATER CONNECTION WITH BACKFLOW PREVENTER
DISHWASHER ENGERY STAR CERTIFIED	DW	5/8"	-	1/2"	-	PROVIDE HOT WATER CONNECTION WITH WATER HAMMER
COUNTERTOP WATER DISPENSER	WD	-	-	-	1/2"	PROVIDE WATER CONNECTION WITH BACKFLOW PREVENTER

NOTES:

1. WASTE LINE FROM DISHWASHER SHALL RISE UP AND BE SECURELY FASTENED TO UNDERSIDE OF COUNTER, THEN TURN DOWN AND CONNECT TO GARBAGE DISPOSAL PER IPC SECTION 802.1.6.
2. REFERENCE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE ROUGH-IN AND SPECIAL MOUNTING REQUIREMENTS.
3. PROVIDE ESCUTCHEONS ON ALL ROUGH-IN HOT WATER AND COLD WATER SUPPLIES TO PLUMBING FIXTURES, SPLIT HINGED TYPE ARE NOT ACCEPTABLE.
4. PROVIDE PRE FORMED INSULATION ON ALL HANDICAPPED (ADA) FIXTURES, P-TRAPS, ANGLE STOPS AND SUPPLY PIPES.
5. PROVIDE 1/4" FLEXIBLE COPPER PIPE FOR EACH APPLIANCE AFTER BACKFLOW PREVENTER, UNLESS NOTED OTHERWISE ON DRAWINGS. WATER CONNECTION SHALL BE MADE BY WAY OF SOLDERED "TEE" FITTINGS. NO PIERCE POINT FITTINGS ALLOWED FOR ANY REASONS.

PLUMBING FIXTURE SPECIFICATIONS

NOTES: 1. PROVIDE THE FOLLOWING FIXTURES AND ACCESSORIES OR AN APPROVED EQUAL.
2. REFERENCE ARCHITECTURAL DRAWING FOR ALL PLUMBING FIXTURES SPECIFICATIONS.

TP: TRAP PRIMER
A. MIFAB MODEL# M-500

OSD: OPEN SITE DRAIN
A. 3" X 2" COPPER REDUCING COUPLING WITH SOLDERED FITTINGS.

BFP1: BACKFLOW PREVENTER
A. WATTS SERIES LF7C MODEL. (ASSE 1024)

WF: WATER FILTER
A. AQUAPURE FILTER MODEL AP11T. PROVIDE MANUFACTURER RECOMMENDED REPLACEMENT CARTRIDGE.

WATER HAMMER
A. MIFAB MODEL# CL SERIES.

SK1: SINK WITH DISPOSER: PROVIDE SINGLE COMPARTMENT, 18 GAUGE STAINLESS STEEL, SELF RIMMING SINK WITH COMPATIBLE FAUCET.
A. SINK: ELKAY "LUSTERTONE" MODEL #LRAD-2521, WITH MR2 HOLES.
B. FAUCET: KOHLER MODEL #K-597-CP, 1.8 GPM FLOW WITH SWING SPOUT.
C. DISPOSER: IN-SINK-ERATOR EVOLUTION ESSENTIAL, 3/4 H.P.

PLUMBING SYMBOLS LIST

SAN	SANITARY WASTE PIPE	SAN.	
	VENT	V.	
	HOT WATER PIPE	HW	
	COLD WATER PIPE	CW	
F	FIRE PIPE	F	
	DOMESTIC HOT WATER RETURN PIPE	HWR	
	PIPING BELOW GRADE		
	PIPE BEING REMOVED		
	BACKFLOW PREVENTER	B.F.P.	
	SHUT-OFF VALVE		
	BALANCING VALVE	B.V.	
	MIXING VALVE	M.V.	
MTS	OS&Y VALVE WITH TAMPER SWITCH		
	DRAIN (TYPE AS INDICATED)		
# / #	DETAIL IDENTIFICATION		

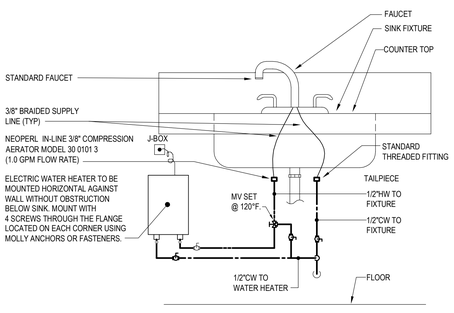
	GAS COCK
	WATER HAMMER "PDI SIZE"
	PIPE INCREASER
	PIPE SLEEVE
C.O.	CLEAN OUT C.O.
	PIPE TURNING DOWN
	PIPE TURNING UP
SAN	EXISTING SANITARY WASTE
	EXISTING VENT
	EXISTING HOT WATER PIPE
	EXISTING COLD WATER PIPE
	POINT OF CONNECTION (NEW TO EXISTING)
	TERMINATION OF DEMOLITION
#	SHEET NOTE DESIGNATION
P	SANITARY WASTE AND VENT STACK
W	DOMESTIC WATER RISER STACK

PLUMBING ABBREVIATIONS

ABV.	ABOVE	F.D.	FLOOR DRAIN	M.S.	MOP SINK
A.D.	AREA DRAIN	F.S.	FLOOR SINK	M.V.	MIXING VALVE
B.F.P.	BACKFLOW PREVENTOR	F.M.	FORCED MAIN	O.S.&Y.	OPEN SCREW AND YOKE
BLW.	BELOW	F.F.D.	FUNNEL FLOOR DRAIN	O.S.D.	OPEN SITE DRAIN
C.M.	COFFEE MAKER	G.P.H.	GALLONS PER HOUR	LB.	POUNDS
CLG.	CEILING	G.P.M.	GALLONS PER MINUTE	P.S.I.	POUNDS PER SQUARE INCH
C.O.	CLEANOUT	HTR.	HEATER	P.&T.	PRESSURE AND TEMPERATURE
C.W.	COLD WATER	H.B.	HOSE BIBB	REF.	REFRIGERATOR
°F	DEGREES FAHRENHEIT	H.W.	HOT WATER	SAN.	SANITARY
D.F.U.	DRAINAGE FIXTURE UNITS	H.W.R.	HOT WATER RETURN	SHR.	SHOWER
D.F.	DRINKING FOUNTAIN	LAV., L.	LAVATORY	SK.	SINK
DN.	DOWN			SP.	SPRINKLER
DWH.	DOMESTIC WATER HEATER			SD.	STORM DRAIN
E.W.C.	ELECTRIC WATER COOLER			T.P.	TRAP PRIMER
ELEC.	ELECTRICAL			TYP.	TYPICAL
E.T.P	ELECTRIC TRAP PRIMER			UR.	URINAL
(E)	EXIST(ING)			V.	VENT
F.	FIRE			W.C.	WATER CLOSET
FLR.	FLOOR			W/	WITH

NOTE:
THESE ARE STANDARD SYMBOLS AND ABBREVIATIONS, AND MAY NOT ALL APPEAR ON THE CONTRACT DRAWINGS.

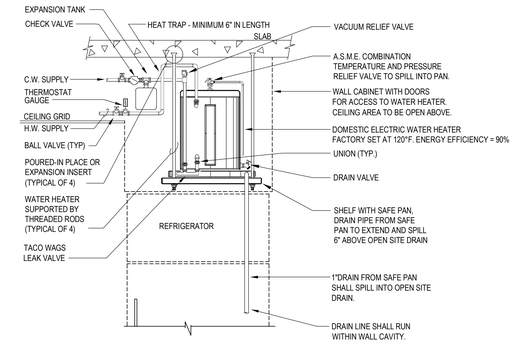
PLUMBING DRAWING LIST



INSTANTANEOUS WATER HEATER SCHEDULE							
EQUIP ID	TEMP. RISE°F		ELECTRIC				BASIS OF DESIGN
	0.75 GPM	1.0 GPM	KW	VOLTS	AMPS	PHASE	
IWH	91°	68°	10	277	50	1	EEMAX MODEL EX100T-FS 120°F
-	-	-	-	-	-	-	-

UNIT TURNS ON AT 0.7 GPM

1 / P001 TANK-LESS WATER HEATER DETAIL
SCALE: NONE



SCHEDULE OF CAPACITIES								
W.H. NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 80 F RISE	OPER. WGT. LBS.	ELECTRIC				BASIS OF DESIGN
				VOLTS	PH	Hz	KW	
DWH	10	21	155	277	1	60	4	A.O. SMITH MODEL DEL-10
-	-	-	-	-	-	-	-	-

EXPANSION TANK: AMTROL MODEL ST-5 (2.1 GALLON TANK)
DRAIN PAN SHALL BE 20" IN DIAMETER OR LARGER.
LEAK DETECTION SYSTEM: INSTALL TACO WAGS VALVE IN DRAIN PAN.

1 / P001 WATER HEATER DETAIL
SCALE: NONE

NOTE:
WATER HEATERS LOCATED ABOVE CEILINGS SHALL BE SUPPORTED BY HOLDRITE SYSTEM OR A 1-1/4"X1-1/4"X1/4"ANGLE IRON CROSS BRACED FRAME WITH SHEET METAL WATER TIGHT, 1-1/2 INCH HIGH DRAIN PAN, SUPPORTED FROM 3/4" ALL-THREAD RODS AND SECURED TO STRUCTURE ABOVE. INSTALLATION SHALL MAINTAIN N.E.C. ELECTRICAL ACCESS CLEARANCES (30" WIDE BY 36" LONG FRONT ACCESS) INCLUDING REMOVABLE CEILING GRIDS WHERE REQUIRED.

MCMA
131 GREAT FALLS STREET VIRGINIA 22046
FALLS CHURCH WWW.MORGANGICK.COM
703.538.7110 703.538.7112FAX

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

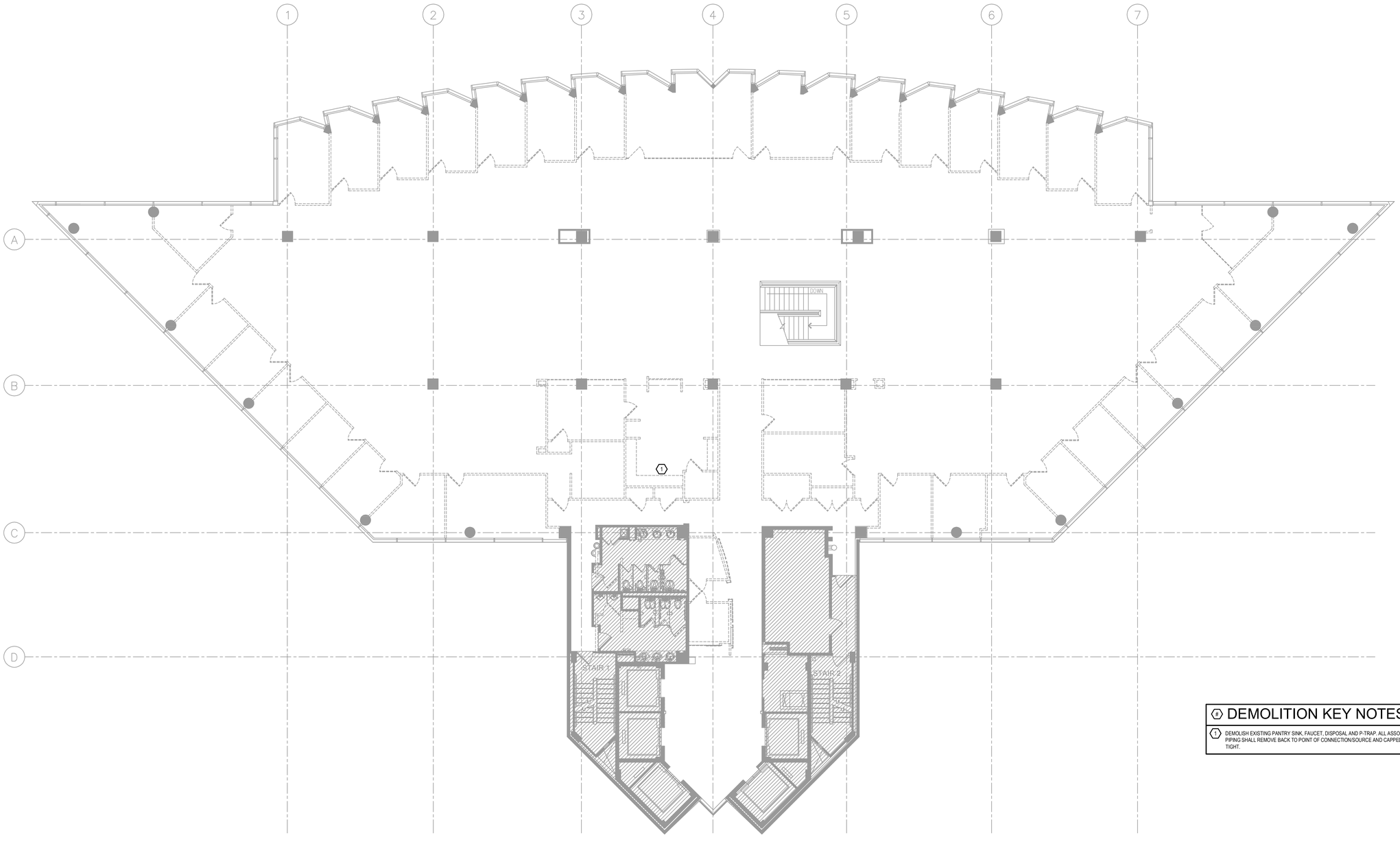
FILE NAME	
JOB NUMBER	11096-011

PLUMBING COVER SHEET

P001

Plotted By: Shannon Strong | 6/28/17 | 2:25 PM

ARL: K:\p01\18808728\P-Cover Sheet



DEMOLITION KEY NOTES

1. DEMOLISH EXISTING PANTRY SINK, FAUCET, DISPOSAL AND P-TRAP. ALL ASSOCIATED PIPING SHALL REMOVE BACK TO POINT OF CONNECTION/SOURCE AND CAPPED OFF AIR TIGHT.

1 PLUMBING 11TH FLOOR PLAN
1/8" = 1'-0"

ARLINGTON
VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghttd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

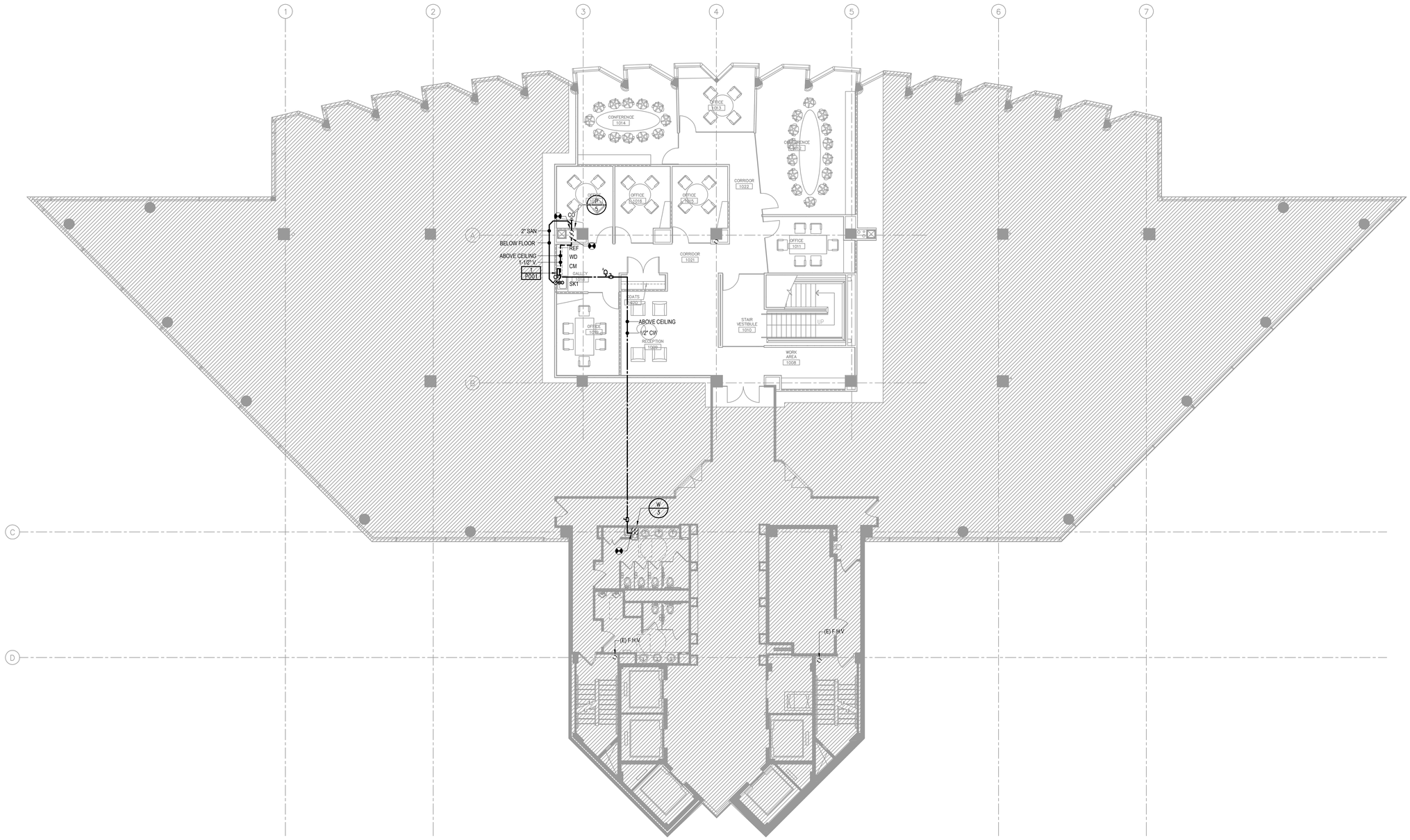
FILE NAME	
JOB NUMBER	11096-011

PLUMBING 11TH FLOOR DEMOLITION PLAN

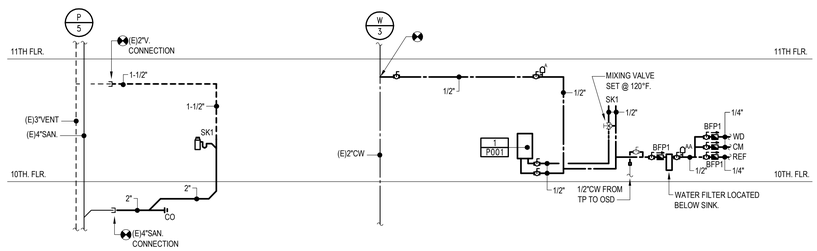
P111

Plotted By: Shannon Strong | 6/28/17 | 2:24 PM

ARL: K:\90\18808728\P-11th Floor Demolition Plan



1 PLUMBING 10TH FLOOR PLAN
1/8" = 1'-0"



SANITARY WASTE & DOMESTIC WATER RISER DIAGRAMS
SCALE: NONE

MGMA
131 GREAT FALLS STREET FALLS CHURCH VIRGINIA 22046
703.538.7100 703.538.7112FAX WWW.MORGANGICK.COM

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728	PROJ. MGR. LM
MECH. SS ELEC. BT	PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	06.28.17

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

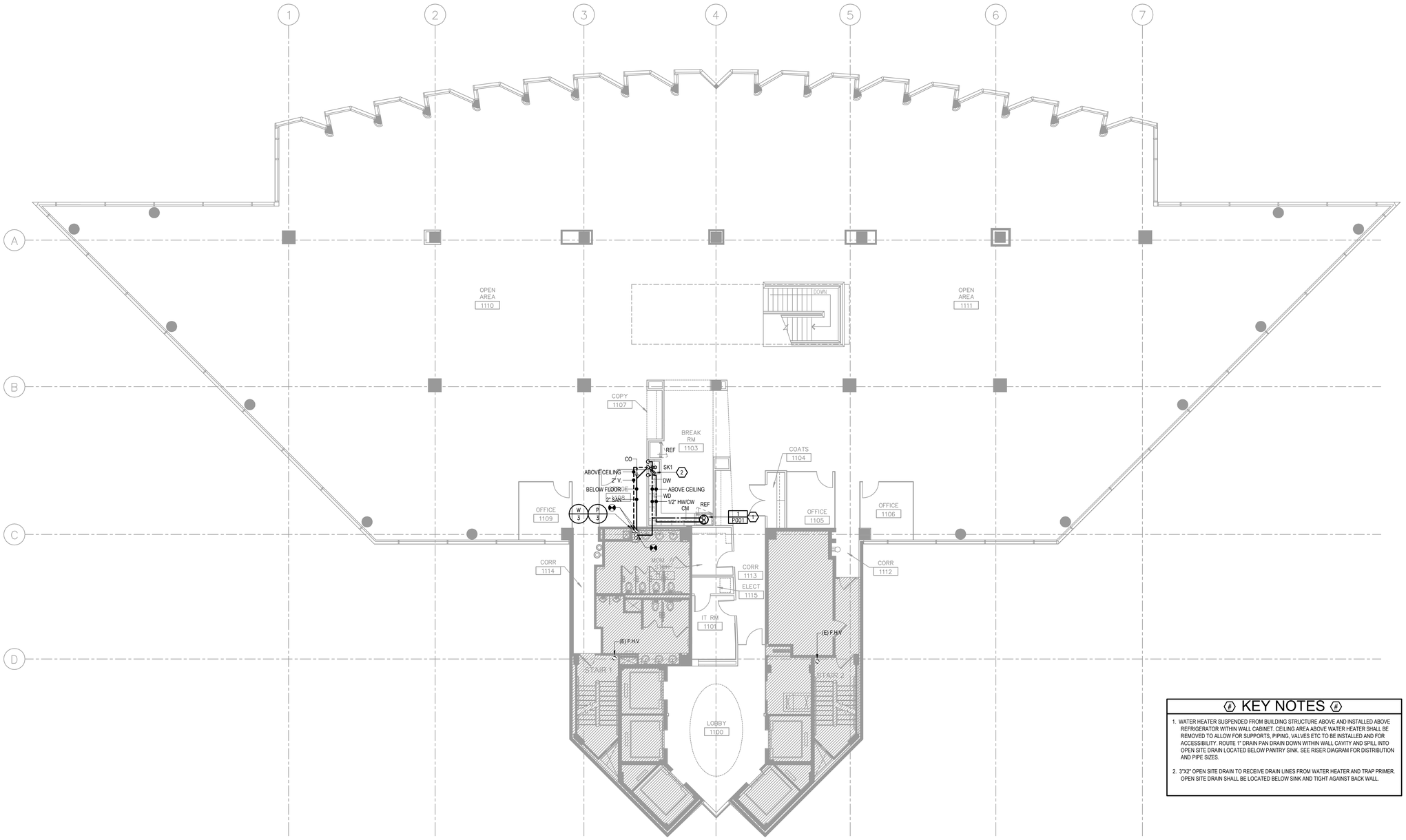
FILE NAME	
JOB NUMBER	11096-011

PLUMBING 10TH FLOOR NEW WORK PLAN

P210

Plotted By: Shannon Strong | 6/28/17 | 2:24 PM

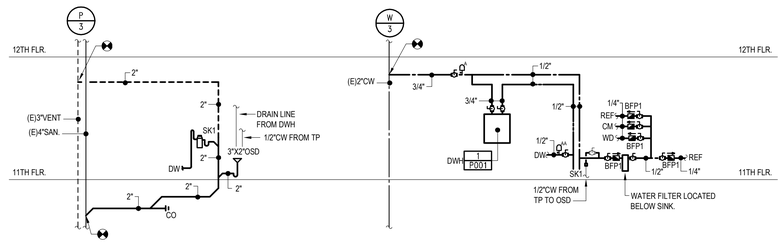
ARL: \\V\V\18808728\P-10th Floor New Work Plan



KEY NOTES

1. WATER HEATER SUSPENDED FROM BUILDING STRUCTURE ABOVE AND INSTALLED ABOVE REFRIGERATOR WITHIN WALL CABINET. CEILING AREA ABOVE WATER HEATER SHALL BE REMOVED TO ALLOW FOR SUPPORTS, PIPING, VALVES ETC TO BE INSTALLED AND FOR ACCESSIBILITY. ROUTE 1" DRAIN PAN DRAIN DOWN WITHIN WALL CAVITY AND SPILL INTO OPEN SITE DRAIN LOCATED BELOW PANTRY SINK. SEE RISER DIAGRAM FOR DISTRIBUTION AND PIPE SIZES.
2. 3"X2" OPEN SITE DRAIN TO RECEIVE DRAIN LINES FROM WATER HEATER AND TRAP PRIMER. OPEN SITE DRAIN SHALL BE LOCATED BELOW SINK AND TIGHT AGAINST BACK WALL.

1 PLUMBING 11TH FLOOR PLAN
1/8" = 1'-0"



SANITARY WASTE & DOMESTIC WATER RISER DIAGRAMS
SCALE: NONE

ARLINGTON VIRGINIA
Approved: 10/27/2017

MGMA
131 GREAT FALLS STREET VIRGINIA 22046
FALLS CHURCH WWW.MORGANGICK.COM
703.538.7100 703.538.7112FAX

GHT LIMITED
CONSULTING ENGINEERS
1110 N. Glebe Road, Suite 300
Arlington, VA 22201 - 5760
T 703 243 - 1200 www.ghtltd.com

PROJ. No. 18808728 PROJ. MGR. LM
MECH. SS ELEC. BT PLUMB. SK

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

SUBMISSIONS / REVISIONS		
	ISSUE FOR PERMIT	06.28.17
NO.	DESCRIPTION	DATE

SEALS

COMMONWEALTH OF VIRGINIA
LAURA C. MORDER
Lic. No. 056338
PROFESSIONAL ENGINEER

FILE NAME	
JOB NUMBER	11096-011

PLUMBING 11TH FLOOR NEW WORK PLAN

P211

Plotted By: Shannon Strong | 6/29/17 | 2:24 PM

ARL: K:\90\18808728\P-11th Floor New Work Plan

ARLINGTON
VIRGINIA

Approved: 10/27/2017

August 11, 2017

Plans Review Division
Arlington County
2100 Clarendon Boulevard
Arlington, Virginia 22201

Re: Insight Global
Revisions to Permit
Permit Number: B1701636

Dear Mr. Pauletti, Mr. Rice-Johnston and Mr. Martin:

The following is a written response to the Architectural review comments dated August 9, 2017:

1. *"This submission is being rejected for the following reason: Complete and upload the Accessiblity Compliance Form. If you have any questions, call 703.228.3800."*

Response: The Accessibility Compliance Form is attached.

2. *"A8-1 Door Details & Schedules, 8 August 2017, Please verify that the door rails on new and existing glass doors conform: Door faces within 10 inches of the floor shall be smooth 1/16 inch, on the push side. As an exception, door rails may be tapered no less than 60 degrees from horizontal. 2009 ANSI A1171, Section 404.2.9."*

Response: Refer to sheet A8.1 – Detail #2: The bottom rail for the glass doors has been revised to accurate show the conditions of the rail at 1"H and with a beveled edge no less than 60 degrees from the horizontal.

3. *"Building and Plumbing Response – Comment response letter 8 August 2017, Items 4, 5, 8: The cabinet doors *must* be removed to provide knee and toe clearances to the affected sinks. The presence of the doors renders approach slow and difficult and they encourage storage of janitorial and other supplies, which can completely defeat the intent of the clearance requirements."*

Response: Sheet Construction plan A3.2-10 and Enlarged Break Room plan #5 on sheet A5.1 now show the ADA required floor clearance at the sink. Elevations #5 and #10 on sheet A5.2 show the cabinet doors as removed. Section #5 on sheet TA5.3, the base cabinet for the sink has been revised to show the cabinet doors removed. The ADA knee clearance is still shown for a forward approach at both sinks.

4. *"Review Date: 8/3/17 Previous comment dated 7/10/17 has not been address for removal of the sink base cabinet doors."*

ARLINGTON
VIRGINIA
Approved: 10/27/2017

Response: Please refer to response to comment #3 above.

5. *"Review Date: 7/10/17 Sheet A5-3 Detail 5 shows ADA doors installed in the sink base. I forward approach is to achieved on the 10th floor knee and toes clearance complying with ANSI section 306 shall be provided. The doors shall be removed. A parallel approach complying with section 305 centered on the sink is permitted. ANSI 606.2 exception #1."*

Response: Please refer to response to comment #3 above.

If any additional information is necessary on any of these issues please let us know.

Thank you.

Anne Brown

Anne Brown
MORGAN GICK MCBEATH & ASSOCIATES, PC

ARLINGTON
VIRGINIA

Approved: 10/27/2017

September 22, 2017
Plans Review Division
2100 Clarendon Boulevard
Arlington, Virginia 22201

Re: Insight Global
Revisions to Permit
Permit Number: B1701636

Dear Sir/Madam:

The tenant, Insight Global has provided two additional offices to the current layout/permit drawings. The enclosed drawings show the addition of those offices and the revisions to the construction, power/signal, reflected ceiling and finish plans. Elevations, sections, details and schedules have also been revised per the changes. Mechanical and electrical drawings are included as well.

Sincerely yours,
MORGAN GICK McBEATH & ASSOCIATES, PC

Anne Brown

Anne Brown
Director

116,31

MARK NICKENS
Permit # : E1703104

ARLINGTON
VIRGINIA

Department of Community Planning, Housing and Development Inspe
Services Division (building.arlingtonva.us)
2100 Clarendon Blvd., Suite 1000, Ph: 703-228-3800 Fax: 703-228-7

ELECTRICAL PERMIT APPLICATION

Building Permit # B1702805

Filing Fee: Total Fee:

Job Address	Number and street: 1001 North 19th St.	Floor: 11th	Suite:	Phone at site, if available:	**Permit holder:** ☐ Legal Owner ☑ Contractor
Legal Owner	Name: BROOKFIELD	Address: 1001 North 19th St.		Phone:	
Contractor (if applicable)	Name: KASTLE SYSTEMS LLC	VA State License Number: 2701 03 1958A		Arlington Business License Number: 00000 7770-02	
	Number and Street: 6402 Arlington Blvd	City: Falls Church	State: VA	Zip: 22042	Phone: 703-524-7911
Tenant (if applicable)	Name: INSIGHT GLOBAL	Number and Street:		Phone:	

Job Description

Building Type ☐ Single Family ☐ Town house ☑ Commercial ☐ All Other

Type of Work ☐ New ☐ Addition to Building ☐ Alteration

Estimated Cost 2,000

Classification of Work

QTY	Description	QTY	Description
	Circuits		Outdoor Signs
	Fixtures, Switches, Receptacles		Temporary Installation (< 90 days)
	Receptacles over 20 Amps		Disconnects
	Indoor Signs		

Service Equipment

- ____ Up to 500 Amps
- ____ 501 to 1600 Amps
- ____ 1601 to 3000 Amps
- ____ Over 3000 Amps
- ____ Temp. Power (Temp Pending Final, including sub-metering)
- ____ Sub Panels

Motors

- ____ ¼ to 5 HP
- ____ 6 to 25 HP
- ____ 26 to 50 HP
- ____ 51 to 75 HP
- ____ Over 75 HP
- ____ Other

Systems Furniture

____ Cubicles Count

Miscellaneous

- ____ Swimming Pools
- ____ Com. Preventive Maintenance

Other Electrical Work (Describe)

Low Voltage Electric Wiring

Generators

- ____ 1 to 50 Kw
- ____ Over 50 Kw

Fixed Appliances

- ____ A/C Heat Pump
- ____ Dishwasher
- ____ Disposal
- ____ Dryer
- ____ Furnace
- ____ Range
- ____ Water Heater
- ____ Electrical Heat Kw
- ____ Commercial Cooking Appliance

Transformers

- ____ 1 to 50 KVA
- ____ Over 50 KVA

Certification

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will conform to the regulations in the Current adopted Virginia Uniform Statewide Building Code, the Zoning Ordinance, and Arlington County codes. By submitting this form I acknowledge that this document is considered to be a Public Record under the Virginia Public Records Act and may be subject to release under the Virginia Freedom of Information Act.

Signature of Applicant	Print Name	Email Address
Mark Nickens	MARK NICKENS	MNICKENS@KASTLE.COM

Number and Street	City	State	Zip	Phone
6402 Arlington Blvd	Falls Church	VA	22042	703-524-7911

Note: Bring application, along with additional submission documents to: 2100 Clarendon Blvd., Suite 1000, ph: 703-228-3800. This permit shall become invalid if the authorized work is not started and an approved inspection completed within six (6) months from the date issued, and/or if the authorized work is suspended for a period of six (6) months after the work commences. There may be additional requirements, depending on the type of work.

Initials M.N- Date 4/17

Mike Suranno 410-610-9300

* Customer can submit building permit applications in paper (ngtonva.us.*

C 31132

ARLINGTON
VIRGINIA

Department of Community Planning, Hc
Inspection Services Division (buildi
2100 Clarendon Blvd., Suite 1000,

COMMERCIAL BUILDING PERI

MARK NICKENS
Permit # : B1702805
* D 2 8 2 5 1 6 *

1 lock *

Fee: Total Fee:

Job Address	Number and street: 1001 North 19th St.	Unit	Floor: 11th
Tenant (if applicable)	Name: Insight Global	Phone	Signature
Contractor (if applicable)	Name: Kastle Systems LLC	VA State License Number: 2701 03 1958A	Business License Number: 00000 7770-02
	Number and Street: 6402 Arlington Blvd	City: Falls Church	State: VA Zip: 22042 Phone: 703-524-7911
Legal Owner	Name: Brookfield	Phone	
	Number and Street: 1001 North 19th St.	City: Arlington	State: VA Zip

Permit holder:
☐ Tenant
☑ Contractor
☐ Legal Owner

Applicable V.U.S.B.C. Edition:
☑ 2012

Type of Work

Briefly describe scope of work: Access Control Security System Low Voltage Electric Locks

Estimated value of construction: $ 5,200

New Construction
104 ☐ 3 or 4 family Building
105 ☐ Multifamily
213 ☐ Hotels / Motels
214 ☐ Other Shelter
318 ☐ Amusement and Rec.
319 ☐ Churches / religious
320 ☐ Industrial
321 ☐ Parking garages
322 ☐ Service / Auto repair
323 ☐ Hospitals / Institutional
324 ☐ Office/Bank/Professional
327 ☐ Stores / Mercantile
328 ☐ Other Building
329 ☐ Other Structure

Phased Construction
☐ Excavation/Sheeting/Shoring
☐ Footing and Foundation
☐ Footing to grade
☐ Tower Crane
☐ Tenant Build out

Additions and Alterations
437 ☐ Add/ alter other building

Other Work
☐ Antennas No. ____
☐ Door lock systems No. 1
☐ Interior demo. Floors ____
☐ Material lifts Qty. ____
☐ Move building Sq. ft ____
☐ Parking lots Sq. ft ____
☐ Repair damage Sq. ft ____
☐ Retaining wall Ln. ft ____
☐ Roofing Sq. ft ____
☐ Siding Sq. ft ____
☐ Signs Qty. ____
☐ Swimming pools Sq. ft ____
☐ Sys. furniture Floors ____
☐ Tents Sq. ft ____

Code Details
Use Group/ s ____ Sq. ft ____
Use Group/ s ____ Sq. ft ____
Use Group/ s ____ Sq. ft ____
Construction Type ____
Occupant Load ____
Alarm System ☐ Yes ☐ No
Handicap Accessible ☐ Yes ☐ No
Building Height ____

Stories above street level ____
Stories below street level ____
Building footprint area ____

Demolition
647 ☐ 3 and 4 family building
648 ☐ Multifamily
649 ☐ All other

Area of Disturbance: Sq. ft ____

Building Suppressed: ☐ Yes ☐ No

Certification

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will conform to the regulations in the Current adopted Virginia Uniform Statewide Building Code, the Zoning Ordinance, and Arlington County codes. By submitting this form I acknowledge that this document is considered to be a Public Record under the Virginia Public Records Act and may be subject to release under the Virginia Freedom of Information Act.

Signature of Applicant: Mark Nickens Print Name: MARK NICKENS

Number and Street: 6402 Arlington Blvd City: Falls Church State: VA Zip: 22042 Phone: 703-524-7911

Submission: Bring application, along with additional submission documents (detailed on next page) to: 2100 Clarendon Blvd., Suite 1000, ph: 703-228-3800. This permit shall become invalid if the authorized work is not started and an approved inspection completed within six (6) months from the date issued, and/or if the authorized work is suspended for a period of six (6) months after the work commences. Initials M.N. **Date** 11/07/17

Mike Suranno 410-610-9300

COMMERCIAL BUILDING PERMIT REQUIREMENTS

Visit http://building.arlingtonva.us/resource/commercial-submission/ for complete details and applications for additional permits

All Projects

Before applying for a permit:

Contact the Department of Environmental Services (703-228-3629) to see if your property contains any Arlington County easements or has a Resource Protection Area (RPA) designation status before beginning any work or planning – this may greatly impact what kind of construction or accessories are allowed on a property.

- . All projects are required to comply with the 2009 Virginia Uniform Statewide Building Code.

Planning for additional permits:

Please contact the Department of Environmental Services (DES) either in person at 2100 Clarendon Blvd., Suite 800 or at 703-228-3629 to learn what additional steps and permits will be required.

New Construction

- Four (4) copies of the complete construction documents. Must show the architectural, structural, electrical, plumbing and mechanical plans, including calculations, equipment list, duct layout including exhaust system for kitchen, baths and dryer, venting systems and combustion make up air for fuel-burning appliances, signed by a Virginia-licensed design professional (5 copies required if construction documents require Health Department review)
- Nine (9) copies of the site/grading and landscaping plans.
  - Must be signed and sealed by an Engineer or Surveyor licensed in the Commonwealth of Virginia.
- Additional applications available online: Chesapeake Bay Water Quality Impact Worksheet, accessibility compliance form, asbestos certification; additional DES and trade permits

Addition to an Existing Building

- Four (4) copies of the complete construction documents. Must show the architectural, structural, electrical, plumbing and mechanical plans, including calculations, equipment list, duct layout including exhaust system for kitchen, baths and dryer, venting systems and combustion make up air for fuel-burning appliances, signed by a Virginia-licensed design professional (5 copies required if construction documents require Health Department review)
- Nine (9) copies of the site/grading and landscaping plans.
  - Must be signed and sealed by an Engineer or Surveyor licensed in the Commonwealth of Virginia.
- Additional applications available online: Chesapeake Bay Water Quality Impact Worksheet, asbestos certification; additional DES and trade permits

Interior Alterations

- Three (3) sets of the complete construction documents. Must show the architectural, structural, electrical, plumbing and mechanical plans, including calculations, equipment list, duct layout including exhaust system for kitchen, baths and dryer, venting systems and combustion make up air for fuel-burning appliances, signed by a Virginia-licensed design professional (4 copies required if construction documents require Health Department review)
- Plans must clearly indicate existing work and work to be modified
- Additional applications available online: Chesapeake Bay Water Quality Impact Worksheet, asbestos certification; additional DES and trade permits

Historic Districts

- In addition to the project-specific requirements above, please include two (2) copies of the stamped approved Certificate of Appropriateness plans from Historical Affairs and Landmark Review Board (application available online at arlingtonva.us)

Additional permits listed online: Mechanical Permits for Air Conditioners; Underground Fuel Tank; Sprinklers, Hoods, Fire Alarm

SECURITY LEGEND

The M490DE DEL Delayed Egress Lock will comply with IBC 1008.1.9.7 Delayed Egress Locks

1008.1.9.7 Delayed Egress Locks

In other than Groups A, E and H, approved, listed, delayed egress locks shall be permitted to be installed on doors in buildings which are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an approved automatic smoke or heat detection system installed in accordance with Section 907, provided that the doors unlock in accordance with Items 1 through 6 below. A building occupant shall not be required to pass through more than one door equipped with a delayed egress lock before entering an exit.

1. The doors unlock upon actuation of the automatic sprinkler system or automatic fire detection system.

2. The doors unlock upon loss of power controlling the lock or lock mechanism.

3. The door locks shall have the capability of being unlocked by a signal from the fire command center.

4. The initiation of an irreversible process which will release the latch in not more than 15 seconds when a force of not more than 15 pounds (67 N) is applied for 1 second to the release device. Initiation of the irreversible process shall activate an audible signal in the vicinity of the door. Once the door lock has been released by the application of force to the releasing device, relocking shall be by manual means only.

Exception: Where approved, a delay of not more than 30 seconds is permitted.

5. A sign shall be provided on the door located above and within 12 inches (305 mm) of the release device reading: PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS.

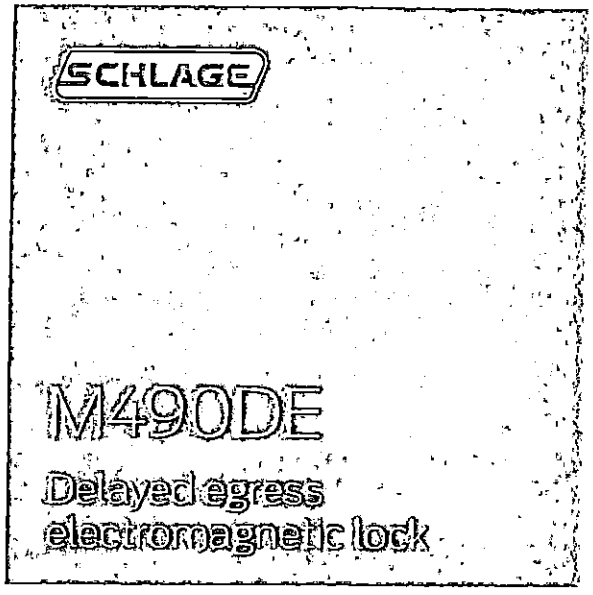
Exception: Where approved, such sign shall read: PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 30 SECONDS.

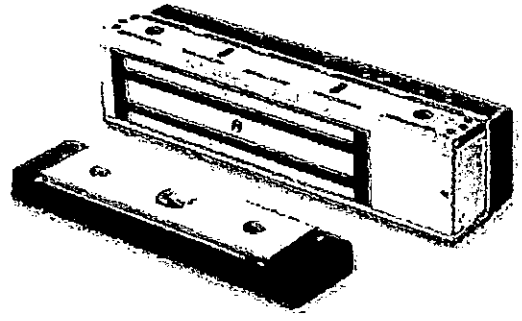
6. Emergency lighting shall be provided at the door.

Exception: Approved, listed, delayed egress locks shall be permitted to be installed on doors serving Group A-3 airport facilities, provided they are installed in accordance with this section.

DRAWING # 3

ALLEGION





Overview

The Schlage M490DE delayed egress electromagnetic lock is designed to meet NFPA 101 Life Safety Code while providing the same robust, easy-to-install, security of our M400 Series magnetic locks. The M490DE has a 15-second delayed egress timer with audible alarm which can be configured to trigger by an internal "plunger switch," or by external contacts, such as a request-to-exit push bar.

All M400 Series electromagnetic locks are symmetrical with field-selectable handing, allowing optimum placement of the magnet no matter the application. They are designed to provide automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex. M490DE models are tested and certified to meet or exceed UL special locking arrangements and BHMA 1500 lb hold force requirements.

M490DE electromagnetic locks come in four configurations to meet your specific security needs. Single and double door models are offered in standard configurations. Plus versions of these models with "P" designations add intelligent sensing and reporting features needed to integrate with access control systems.

This easy-to-install, cost effective solution provides maximum access security and safety.

Features and benefits

- 1500 lb. hold force rating for maximum security applications
- 15 second delay - activated by internal plunger switch or auxiliary input
- LED indication with audible alerts
- Release input, reset input, fire alarm input
- Plus models offer magnetic bond sensor (MBS), adjustable relock time delay (RTD) and door position switch (DPS)
- Automatic voltage selection (AVS)
- Bayonet mount simplifies installation by eliminating the need to hold lock overhead while securing
- Armature pivot feature compensates for slight opening imperfections
- Aluminum housing in 628 satin finish
- UL special locking arrangements, UL 10C, cUL, CSFM certifications
- Meets NFPA 101 life safety code
- BOCA compliant option available
- Limited lifetime warranty on magnetic coil assembly

Standard features

ALL MODELS
- Auto Voltage Selection (AVS) senses the voltage applied to lock and responds accordingly
- Internal plunger switch activates delayed egress timer

Optional accessories
- Herculite door bracket kit (HDB)

M490DEP/M490DEP-2
- Magnetic Bond Sensor (MBS) monitors the strength of the bond between the lock and armature so you know the door is secure
- Door Position Switch (DPS) monitors whether the door is open or closed
- BOCA compliant (upon request) with options for 15- or 30-second time delay

Ordering information

STANDARD MODELS
- **M490DE** - Single lock, 15-second delay
- **M490DE-2** - Double lock, separate housing, 15-second delay

Optional preset
- **M490DE-30S** - Single lock, factory set 30-second delay (requires fire marshal letter of approval)

PLUS MODELS
- **M490DEP** - Single lock, 15-second delay
- **M490DEP-2** - Double lock, 15-second delay
- **M490DEP-BC** - BOCA compliant single lock, factory set 15-second delay with auto re-armed and locked state after door is opened and re-closes
- **M490DEP-BC30S** - BOCA compliant single lock, factory set 30-second delay with auto re-armed and locked state after door is opened and re-closes (requires fire marshal letter of approval)

M490DE electromagnetic delayed egress lock specifications

Specification	M490DE/M490DEP	M490DE-2/M490DEP-2
Holding force	Meets or exceeds BHMA standard of 1500 lbs	Meets or exceeds BHMA standard of 1500 lbs per door leaf
Input voltage (auto selected)	12/24 VDC	12/24 VDC
Current draw	.75A @ 12 VDC .45A @ 24 VDC	1.25A @ 12 VDC .76A @ 24 VDC
Height	3"	3"
Length	12 1/2"	25 1/16"
Depth	3 1/16"	3 1/16"
Weight (approximate)	16 lbs	32 lbs
Certifications	UL special locking arrangement, UL10C, cUL, CSFM	
Temperature	0° to 49°C (32° to 120° F)	0° to 49°C (32° to 120° F)
Wire gauge	14-22 AWG	14-22 AWG

Filler plates

Length	12 1/2"
Width x Height	Plate no.
1 1/4" x 1/8"	4901F
1 1/4" x 1/4"	4902F
1 1/4" x 3/8"	4903F
1 1/4" x 1/2"	4904F
1 1/4" x 5/8"	4905F
3/4" x 1/2"	4906F
3/4" x 5/8"	4907F
3/4" x 3/4"	4908F

Angle brackets

Length	12 1/2"
Width x Height	Bracket no.
1" x 1"	4901A
1 1/2" x 1"	4902A
1 1/2" x 1 1/2"	4903A
1 1/2" x 2"	4904A
1 1/2" x 2 1/2"	4905A

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

aptiQ | LCN | Schlage | STEELCRAFT | VON DUPRIN

ALLEGION

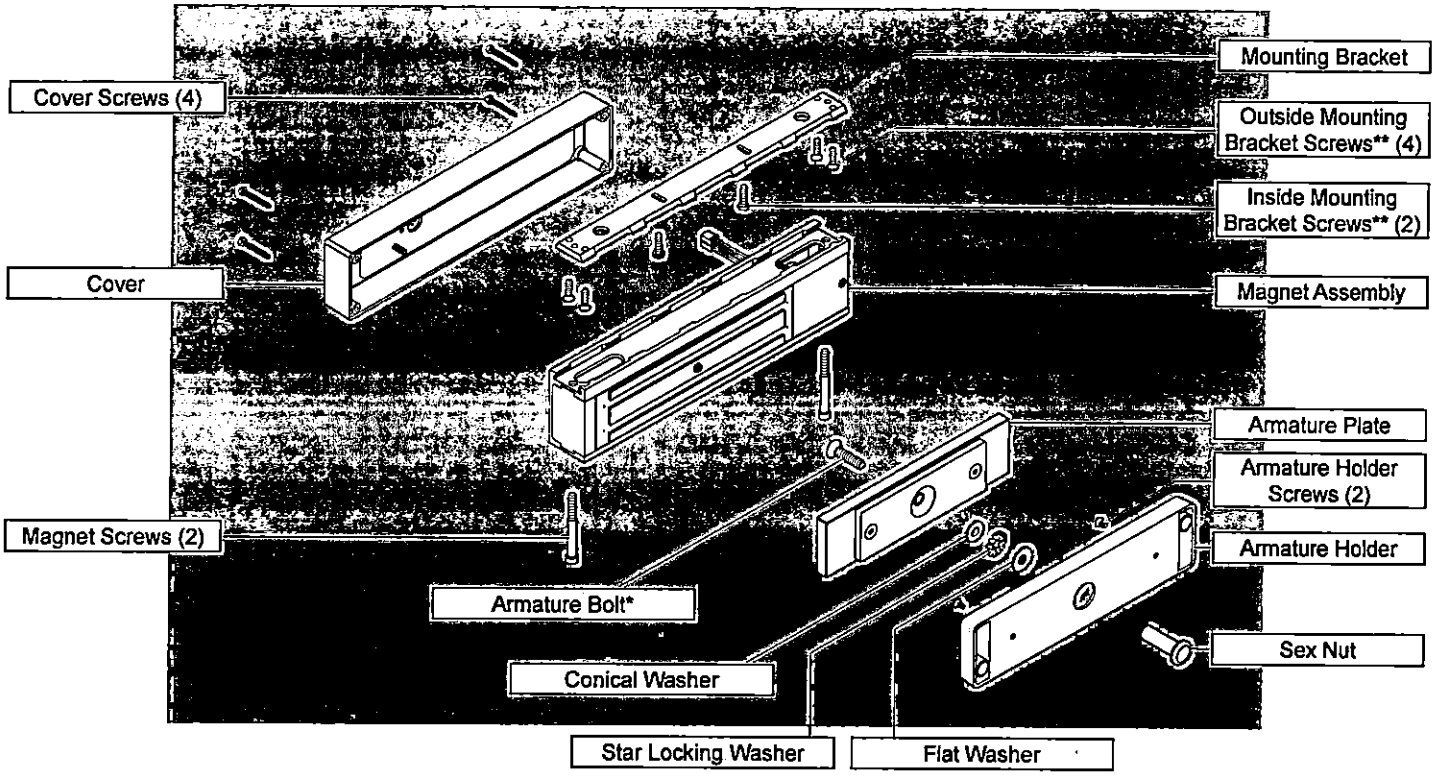
004762 Rev. 04/16
allegion.com

23697279

M490DE

Electromagnetic Locks

Installation Instructions



* Two armature bolts may be included in the package, but only one is used. There may be one left over after proper installation.

** Screws for both reinforced metal and sheet metal are included. Some screws will be left over after proper installation. See individual steps for screw identification.

Features

Delayed Egress
Unlocking is delayed 15 seconds while an alarm sounds.

Automatic Voltage Selection
Magnet immediately detects 12VDC or 24VDC when power is connected.

Fire Unlock
Input from fire system that will unlock the magnet immediately.

Auxiliary Inputs
Allows use of an auxiliary switch such as an exit device or push button.

Alarm Output
Activates external alarm, when in alarm state.

***Indicators**
LED Status and Audible Alarm

***Magnetic Bond Sensor (MBS)**
Detects proper bond between magnet and armature. It can be monitored remotely and locally with an LED.

***Door Position Switch (DPS)**
Indicates whether door is open or closed. This feature is used in conjunction with the MBS.

***Relock Time Delay**
Relock time can be changed. Range is 1 - 30 seconds.

***Door Prop Timer**
Allows adjustment of the amount of time a door can be propped open before alarm sounds. Range is 0 - 150 seconds.

* Plus Version Only

Models

M490DE (Single Lock Basic)
Delayed Egress, Automatic Voltage Selection

M490DEP (Single Lock Plus)
Basic features + Magnetic Bond Sensor (MBS), Door Position Switch (DPS), Relock Time Delay, Door Prop Timer, and Indicators

M490DE-2 (Double Lock Basic)
Double lock with same features as the Basic single lock

M490DEP-2 (Double Lock Plus)
Double lock with same features as the Plus single lock

Notes:
- BOCA is a Plus only lock option.
- If BOCA option model is provided, see page 12 for operational description.

UL Requirements

- Units shall not impair operation of panic hardware mounted on door.
- Units shall not impair intended operation of an emergency exit.
- Not to be used without UL approved latching hardware.
- Units/Models are intended to be connected to UL Listed Equipment, not intended for Burglar or Fire Alarm Initiating or Indicating Devices.
- Ambient Conditions - "For Indoor Use Only".
- Wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70.
- **This device complies with part 15 of FCC rules.**

Operation is subject to following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including any interference that may cause undesired operation. Changes or modifications not expressly approved by party responsible for compliance could void user's authority to operate equipment.

Electrical Specifications

	Model	
	M490DE M490DEP	**M490DE-2 M490DEP-2**
Input Current @ 12VDC Input	.75ADC	1.25ADC
Input Current @ 24VDC Input	.45ADC	.76ADC
Holding Force Per Door Leaf	1500 lbs.	1500 lbs.
Size	3" x 12 1/2"	3" x 25 1/16"

Wire Gauge and Length Specifications

	Max. Wire Length			
	Single Lock		Double lock	
Wire Gauge	**12VDC**	**24VDC**	**12VDC**	**24VDC**
14	1000 feet	4000 feet	500 feet	2000 feet
18	400 feet	1600 feet	200 feet	800 feet

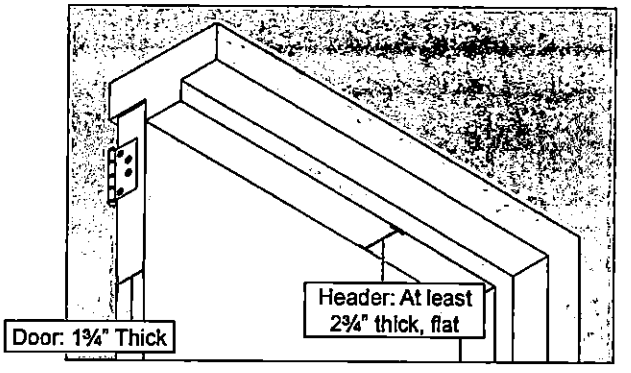
Warnings and Cautions

WARNING
Warnings indicate potentially hazardous conditions, which if not avoided or corrected, may cause death or serious injury.

CAUTION
Cautions indicate potentially hazardous conditions, which if not avoided or corrected, may cause minor or moderate injury. Cautions may also warn against unsafe practices.

Pre-Installation Considerations

- Use ONLY the hardware provided for mounting this product (NOTE: Non-standard Door thickness may require different sex nut hardware - see specific instructions for required hardware).
- Follow the installation procedure as described in this manual.
- Check door thickness. If the door is not 1¾" thick, a different sex nut will be required. Contact customer service at 1-877-671-7011.
- Check door header. A minimum 2¾" thick, flat surface is needed to securely mount all screws for the magnet. If you do not have the required surface, you will need filler plates and/or angle brackets to properly mount the magnet.
  Contact customer service at 1-877-671-7011.

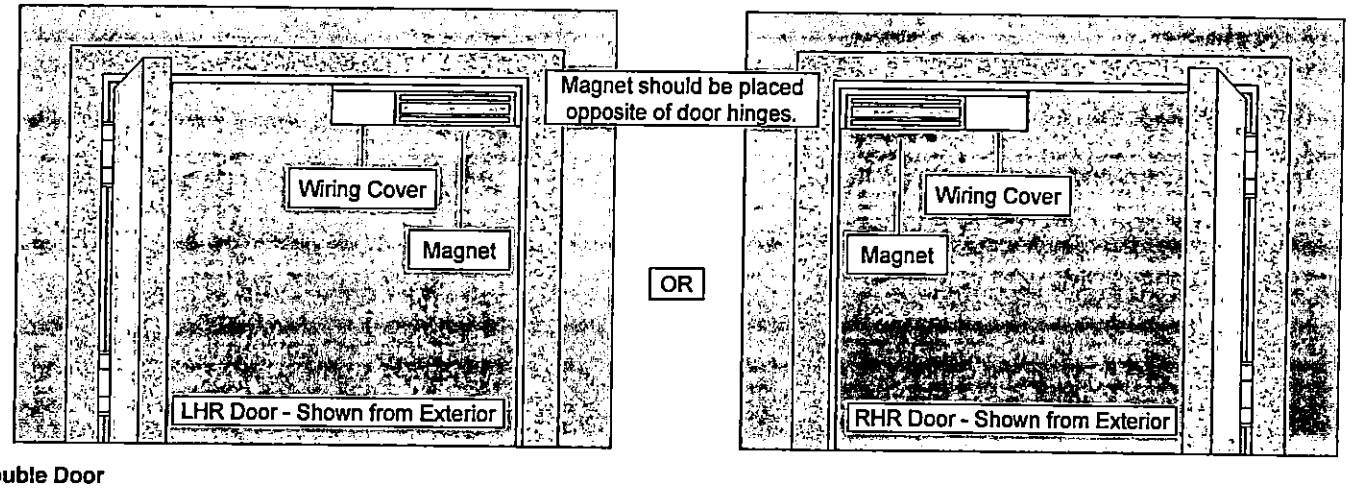


Lock Installation

1. Prepare for installation.

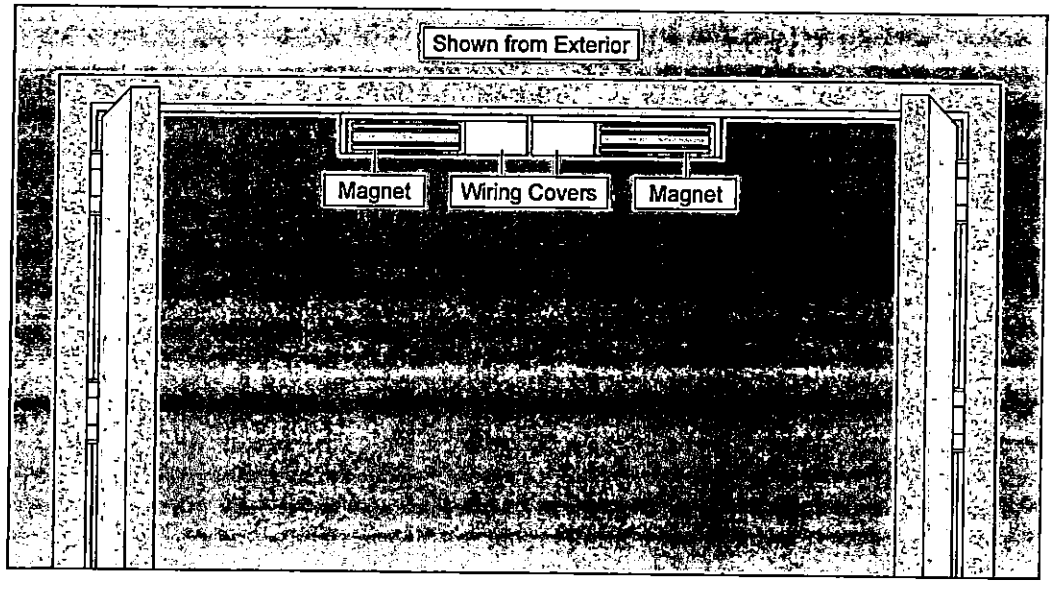
1a Determine proper magnet orientation.

Single Door



Double Door

Locks should be installed with wiring covers in the middle, so the magnet in one of the locks must be reoriented.

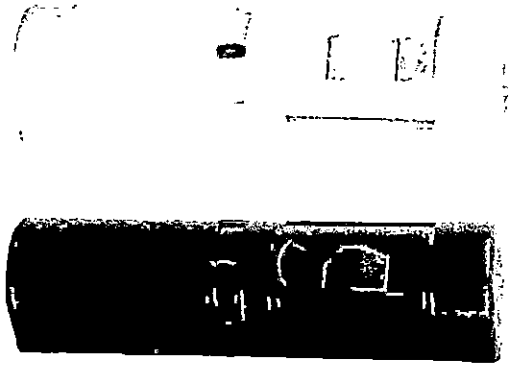


DS150i Series Request-to-exit Detectors

www.boschsecurity.com

DRAWING #5

BOSCH
Invented for life



- Single or double door use
- Wall or ceiling mountable
- Internal vertical pointability
- Wrap-around coverage pattern
- Selectable relay trigger mode

The DS150i Series consists of the DS150i Detector (light gray) and the DS151i Detector (black). They are specifically designed for Request-to-exit (REX) applications. The DS150i and DS151i detect motion in their coverage area and signal an access control system or door control device.

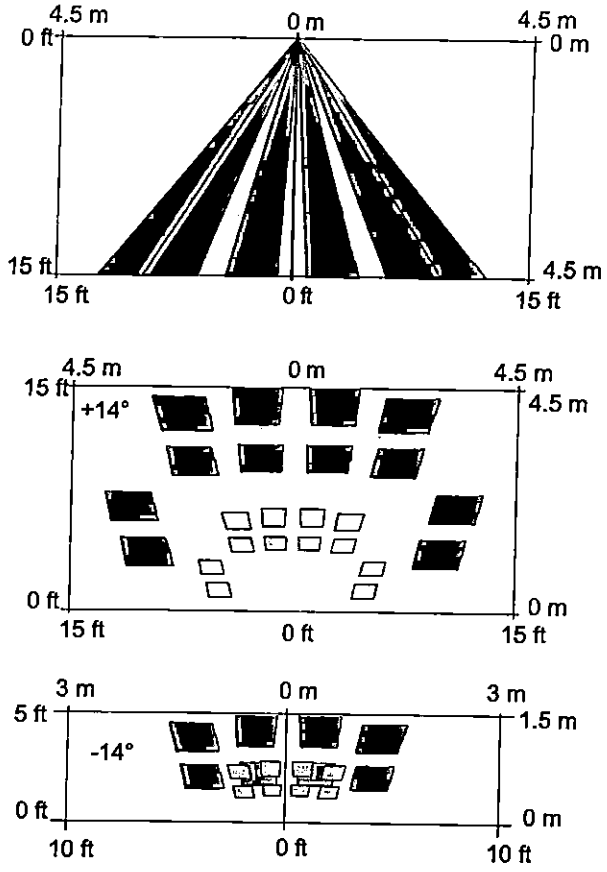
Functions

Test Features
Externally visible activation LED.

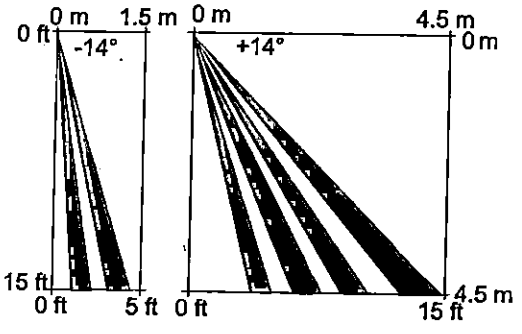
Certifications and approvals

Region	Certification	
Australia	RCM	[DS150i]
Europe	CE	2004/108/EC EMC Directive; 2006/95/EC Low-Voltage Directive; 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment
USA	UL	ALVY: Access Control Systems Units (UL294)

Installation/configuration notes



Front View and Top Views
A front view of the DS150i and DS151i coverage, as well as top views of the coverage pattern on the floor. The typical coverage measurements are 2.4 m x 3 m (8 ft x 10 ft).



Side View
A side view of the DS150i and DS151i coverage pattern.

Technical specifications

Electrical

Current Draw:	26 mA at 12 VDC
Voltage:	12 VAC or VDC; 24 VAC or VDC

Mechanical

Alarm Output:	Two Form C relay contacts
Indicators:	One activation LED
Relay Latch Time:	Adjustable to 60 sec
Enclosure Dimensions:	3.8 cm x 15.9 cm x 3.8 cm (1.5 in. x 6.25 in. x 1.5 in.)
Enclosure Material:	High impact ABS plastic enclosure
Power Loss Default Mode:	Programmable fail-safe or fail-secure modes.
Timer Mode:	Programmable reset (accumulative) or non-reset (counting) mode.
Mounting Location:	Surface mount on wall or ceiling

Environmental

Operating Temperature:	-29°C to +49°C (-20°F to +120°F)
Radio Frequency Interference (RFI) Immunity:	No alarm or setup on critical frequencies in the range from 26 MHz to 1000 MHz at 50 V/m.

Ordering information

DS150i Request-to-exit PIR Detector
For use in Request-to-EXit (REX) applications. Provides PIR, 2.4 m x 3 m (8 ft x 10 ft) coverage.
Order number **DS150i**

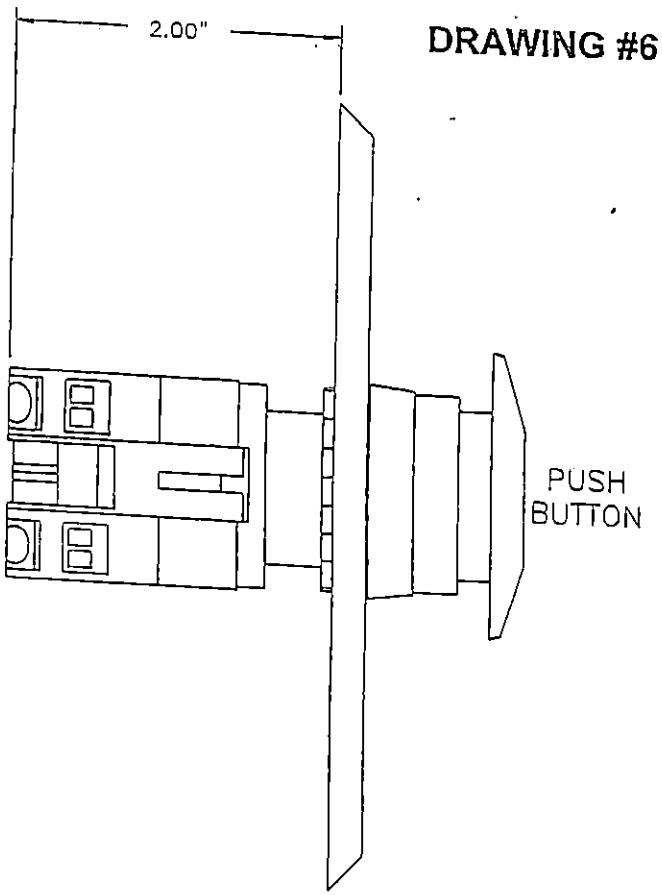
DS151i Request-to-exit PIR Detector
Black enclosure. For use in Request-to-EXit (REX) applications. Provides PIR, 2.4 m x 3 m (8 ft x 10 ft) coverage.
Order number **DS151i**

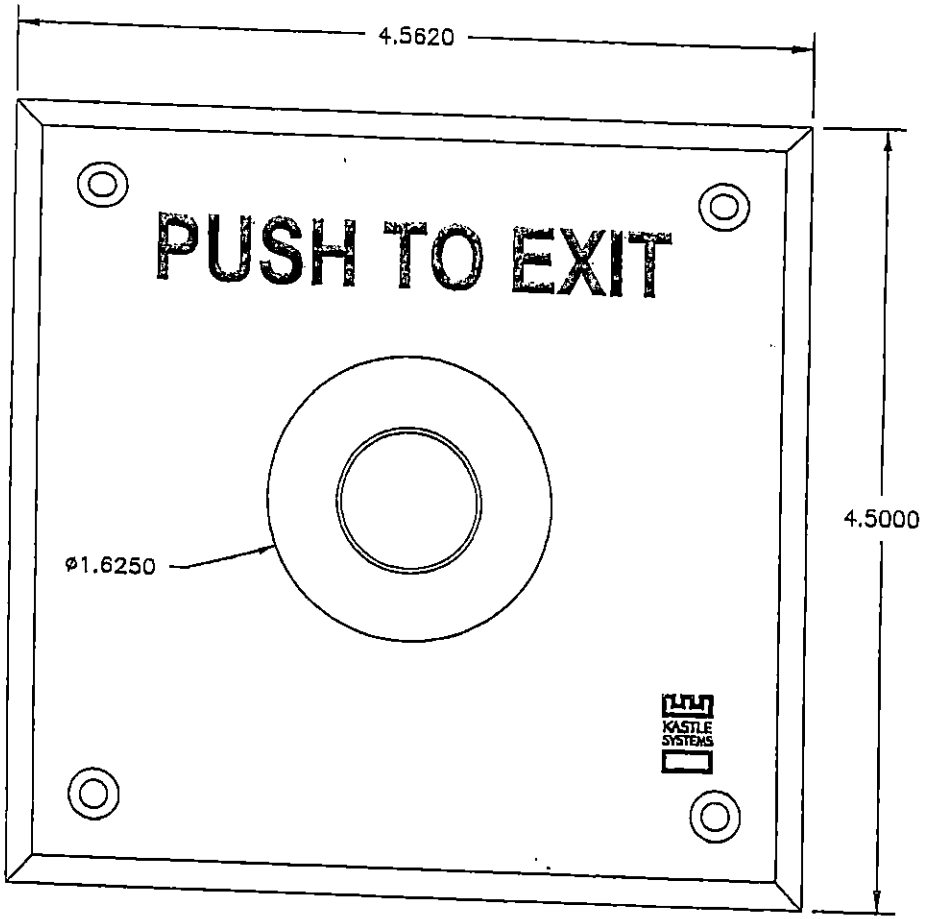
Accessories

TP160 Trim Plate
A light gray trim plate used when mounting the detector over a standard single-gang box.
Order number **TP160**

TP161 Trim Plate
A black trim plate used when mounting the sensor over a standard single-gang box.
Order number **TP161**

DRAWING #6





STANDARD FINISHES:

BRUSHED STAINLESS STEEL
BRUSHED BRASS
POLISHED CHROME
POLISHED BRASS

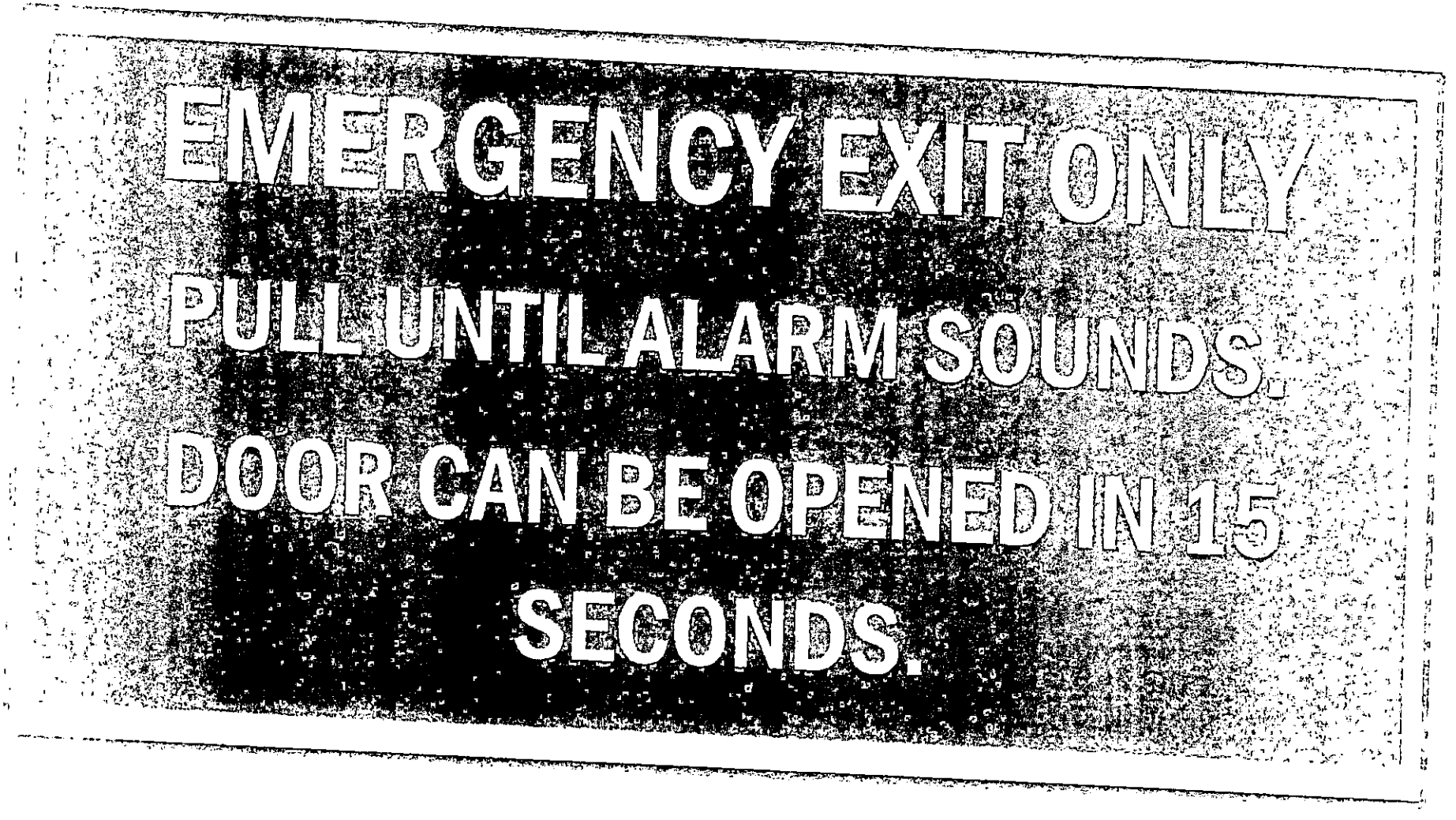
SPECIFY FINISH WHEN ORDERING
DELIVERY TIME SUBJECT TO AVAILABILITY

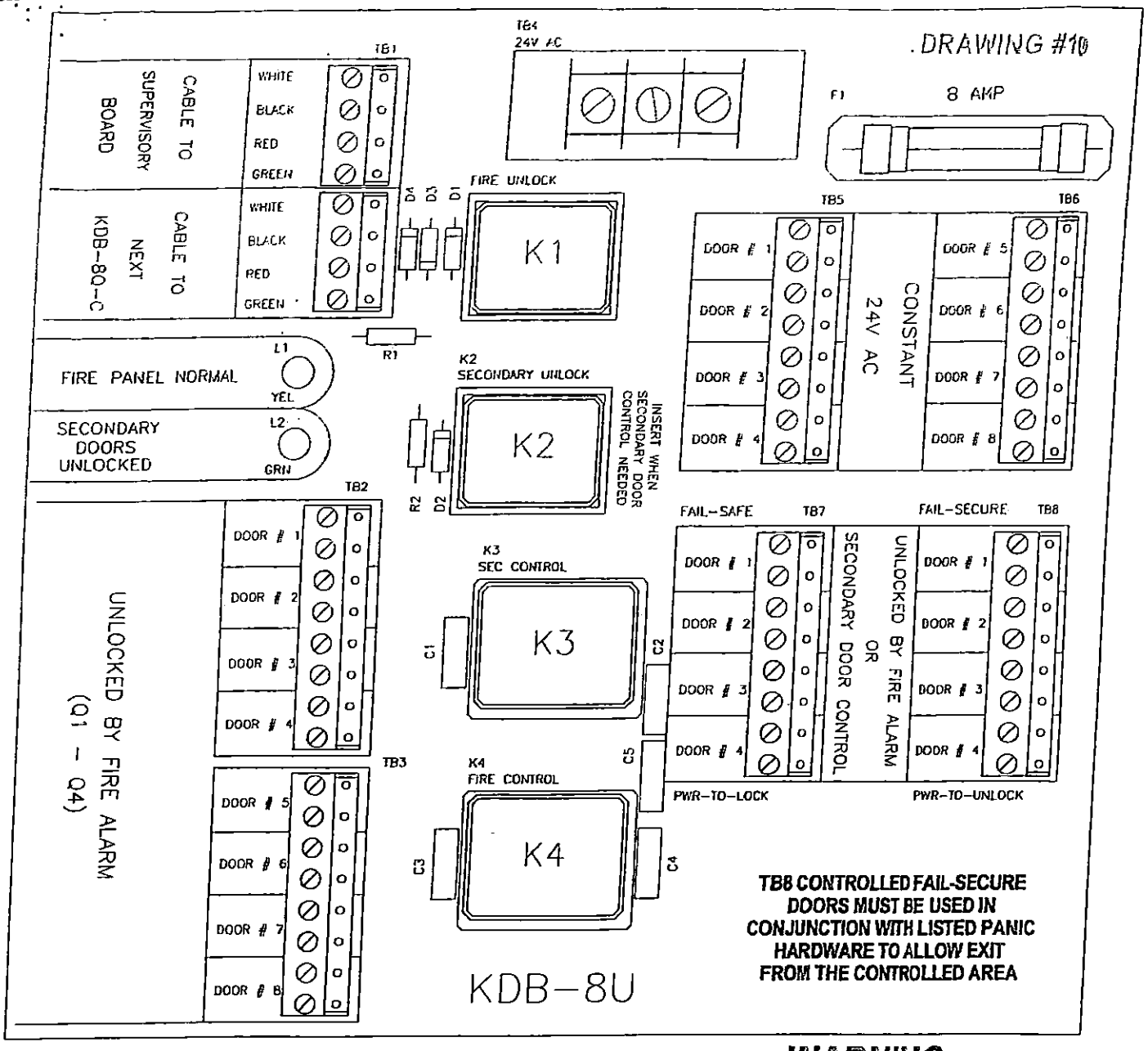
	SIGNATURE
ENGR	
CHECK	
DRAFT	J CRAFTON
DATE	05 FEB 92
SHEET	1 OF 8

KASTLE SYSTEMS INC.
1501 WILSON BLVD, ARLINGTON VA. 22209

KK-3 EXIT BUTTON 2-GANG
WALL MOUNT

SIZE	PAGE#	DRAWING NO.	REV
	17.17.10.1	CS-2	A


EMERGENCY EXIT ONLY
PULL UNTIL ALARM SOUNDS.
DOOR CAN BE OPENED IN 15
SECONDS.



SPECIFICATIONS:

INPUT: 120VAC/60HZ AT 1.2 AMPS

OUTPUT: 24VAC/60HZ AT 6 AMPS
CLASS 2 SUPPLY

2. FOR INSTALLATION INSTRUCTIONS, REFER TO COM VOL 18, "UL QUAD INSTALLATION AND SERVICE MANUAL".

WARNING

HIGH VOLTAGE!
DISCONNECT FROM POWER SOURCE PRIOR TO SERVICING

NOTE

IMPROPER CONNECTION OF WIRES MAY RESULT IN DAMAGE TO BOARD OR WIRING

REVISION			
REV	DESCRIPTION	DATE	APPROVED
E	ADDED KDB-8QD BRD	10/22/91	
F	ADDED WARNING & OUTPUT CLASS	02/02/93	

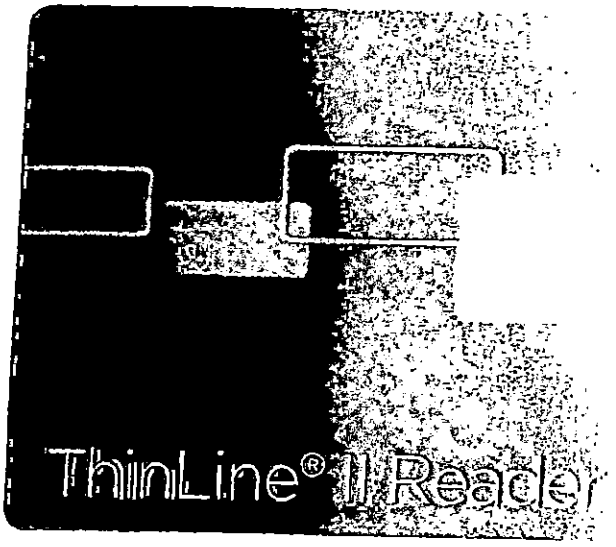
	SIGNATURE
ENGR	
CHECK	
DRAFT	J. CRAFTON
DATE	3/31/89
SHEET	1 OF 1

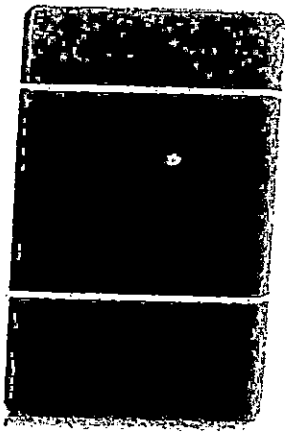
KASTLE SYSTEMS INC.
1501 WILSON BLVD, ARLINGTON VA. 22209

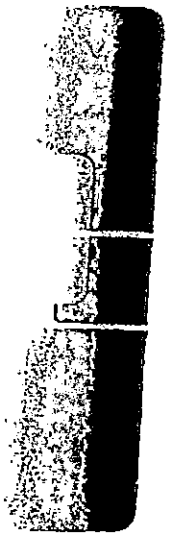
KDB-8U BOARD

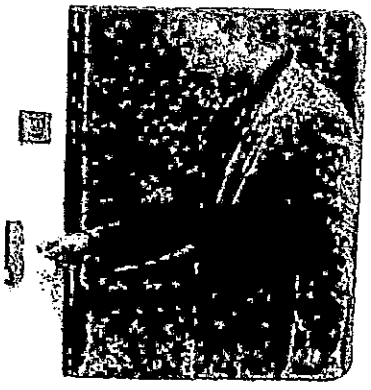
SIZE	IDENT	DRAWING NO.	REV
A		QUAD-56	G

HID





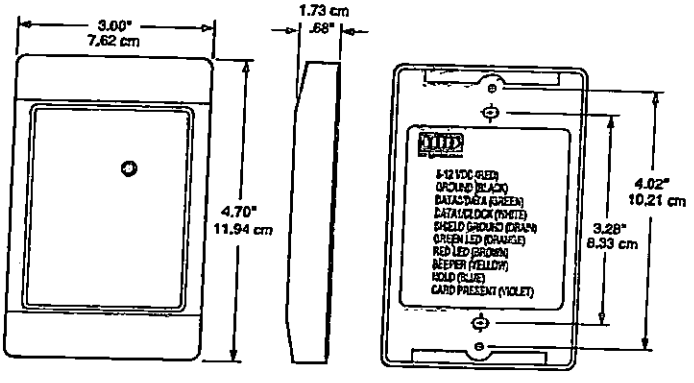




LOW PROFILE PROXIMITY CARD READER

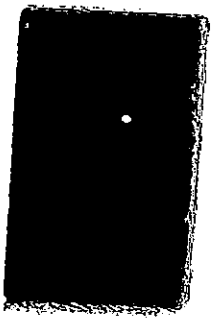
Providing performance and reliability, HID's attractive, unobtrusive ThinLine® II proximity card reader is housed in a two-piece, weatherproof secure potted enclosure.

- Easily installed and maintained with the use of replaceable covers.
- Available with a Wiegand or Clock-and-Data interface.
- Provides high reliability, consistent read range and low power consumption.
- Features include multicolor LED and internal control or host control of the LED and beeper.
- Mounts directly on metal with minimal impact on the read range performance.
- Aesthetic design available in two cover designs and four colors to match any décor.
- Includes multilingual installation manual.



FEATURES

- **Security** – Recognizes card formats up to 85 bits with over 137 billion unique codes.
- **Audiovisual Indication** – A red LED flashes green and the beeper sounds when reader is presented with a proximity card. The multicolor LED and beeper can also be controlled individually by the host system.
- **Diagnostics** – On reader power-up, an internal self-test routine checks and verifies the setup configuration determines the internal or external control of the LED and beeper and initializes reader operation. An additional external loop-back test allows for the reader outputs and inputs to be verified without the use of additional test equipment.
- **Indoor/outdoor Design** – Sealed in a rugged, weatherized polycarbonate enclosure designed to withstand harsh environments, providing reliable performance and a high degree of vandal resistance.
- **Easily Interfaced** – Wiegand or pub mode interfaces with all existing Wiegand protocol access control systems. Clock-and-Data (magnetic stripe) mode interfaces with most systems that accept magnetic stripe readers.
- **Options** – LED and beeper operation



SPECIFICATIONS

*Model Name	ThinLine® II
Model Number	5395 Wiegand interface 5398 Clock-and-Data interface
**Read Range	ProxCard® II card - up to 5.5" (14 cm) ISOProx® II card - up to 5" (12.7 cm) DuoProx® II card - up to 5" (12.7 cm) Smart ISO®/DuoProx® cards - up to 5" (12.7 cm) Proximity & MIFARE® card - up to 5" (12.7 cm) ProxCard® Plus card - up to 1.5" (3.8 cm) ProxKey® II key fob - up to 2" (5.1 cm) MicroProx® Tag - up to 3" (7.6 cm)
Mounting	Mounts on a single-gang electrical box for easy installation. Mounts directly on metal with minimal impact on read range performance.
Color	• CLASSIC series cover in gray, beige, black or white (or) • Designer series cover in grey, wave blue, black or white
Keypad	No
Dimensions	4.70" x 3.00" x 0.68" (11.9 x 7.6 x 1.7 cm)
Power Supply	5-16 VDC (Linear power supplies are recommended.)
Power Requirements (Standard Power)	Average: 30 mA (5 VDC); 20 mA (12 VDC) Peak: 110 mA (5 VDC); 115 mA (12 VDC)
Operating Temperature	-22° to 150° F (-30° to 65° C)
Operating Humidity	0-95% relative humidity noncondensing
Transmit Frequency	125 kHz
Environmental	IP55
Cable Distance	Wiegand interface: 500 feet (150 m) Clock-and-Data interface: 50 feet (15 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.
Certifications	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), MIC (Japan), iDA (Singapore), RoHS
Housing Material	UL94 Polycarbonate
Warranty	Lifetime

*Consult How to Order Guide for specific ordering instructions.
**Dependent upon installation conditions

North America: +1 949 732 2000
Toll Free: 1 800 237 7769
Europe, Middle East, Africa: +44 1440 714 850
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

hidglobal.com

ASSA ABLOY
An ASSA ABLOY Group brand

2011-06-06-prox-thinline-ii-reader-ds-en

CERTIFICATE OF COMPLIANCE

Certificate Number 20151203-BP5726
Report Reference BP5726-19871001
Issue Date 2015-DECEMBER-03

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Security Subassemblies:

Quad KLI-6 and KSE-6 lock interfaces
KK-12Q, KK-3, KK-4Q and KK-4QP switch assemblies
KDB-8U power supply,
KSD-16C siren driver
Quad Zone Expansion board, Quad Reader Expansion board.
Control unit enclosures, 160003-V6U, KE-11, KE-8PS, and KE-12.
Control unit subassemblies, Models KSE-6 and KLI-6 boards
Control unit accessories, Model FEAT-03 computer, Microscan SM-5517AP monitor, Model DCU digital combination unit

Bruce Mahrenholz, Director North American Certification Program
UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number	20151203-BP5726
Report Reference	BP5726-19871001
Issue Date	2015- DECEMBER-03

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Security Subassemblies:

Quad KLI-6 and KSE-6 lock interfaces
KK-12Q, KK-3, KK-4Q, KK-20, and KK-4QP switch assemblies
KDB-8U power supply,
KSD-16C siren driver
Quad Zone Expansion Board, Quad Reader Expansion board.
Control unit enclosures, 160003-V6U, KE-11, KE-8PS, and KE-12.
Control unit subassemblies, Models KSE-6 and KLI-6 boards
Control unit accessories, Model FEAT-03 computer, Microscan SM-5517AP monitor, Model DCU digital combination unit

CERTIFICATE OF COMPLIANCE

Certificate Number	20151203-BP5726
Report Reference	BP5726-19871001
Issue Date	2015-DECEMBER-03

Issued to: KASTLE SYSTEMS
6402 ARLINGTON BLVD
FALLS CHUARCH VA 22042

This is to certify that representative samples of CENTRAL STATIONS ALARM UNITS; ACCESS CONTROL SYSTEMS UNITS; PROPRIETARY ALARM UNITS

Refer to addendum for models.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 294, Access Control System Units
UL 1076, Proprietary Burglar Alarm Units and Systems
UL 1610, Central-Station Burglar-Alarm Units

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

ONLINE CERTIFICATIONS DIRECTORY

FWAX2.GuideInfo
Special Locking Arrangements - Component

View Listings

Page Bottom

[Exit Signs and Exit Appliances - Component] Special Locking Arrangements - Component

See General Information for Exit Signs and Exit Appliances - Component

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UL.

GENERAL

This category covers locks intended for use in Listed special locking arrangements.

Requirements for the installation and use of doors on which special exit locking arrangements are normally mounted are given in ANSI/NFPA 101, "Life Safety Code."

CONDITIONS OF ACCEPTABILITY

Consideration is to be given to the Conditions of Acceptability specified in the individual Reports when these components are employed in the end-use equipment.

REQUIREMENTS

The basic standard used to investigate products in this category is ANSI/UL 294, "Access Control System Units," in addition to one or more of the following:

Section 7.2.1.6 (Special Locking Arrangements) of ANSI/NFPA 101, "Life Safety Code"

Section 1017.4.1.2 (Special Locking Arrangements [Delayed Egress Locks]) of the "BOCA National Building Code"

Section 1017.4.5 (Access-Controlled Egress Doors) of the "BOCA National Building Code"

Section 1008.1.9.6 (Special Locking Arrangements) of the "International Building Code"

* *

Last Updated on 2011-05-17

Questions? Print this page Terms of Use Page Top

Delayed Egress

The M490E DEL Delayed Egress Lock - Current

http://www.allegion.com/DelayedEgressLock

Request-to-Exit Motion Detectors

Bosch D150 Series Request-to-Exit Detectors – February 10, 2016

https://us.boschsecurity.com/en/us_product/products/accessandsystems/accesscontrolaccessories/requesttoexit_1/ds150iseriesrequesttoexit_1/ds150iseriesrequesttoexit_1_26276

Card Reader

HID Thinline II Proximity Reader – February 10, 2016

https://www.hidglobal.com/sites/hidglobal.com/files/resource_files/prox-thinline-ii-reader-ds-en.pdf

Push to Exit Button

Kastle Systems Inc. – KK-20 Exit Button (Wall Mount) – May 11, 2011 – Current

www.ul.com/database

Power Supply

Kastle Systems Inc. – KDB-8U Board – March 31, 1989 – Current

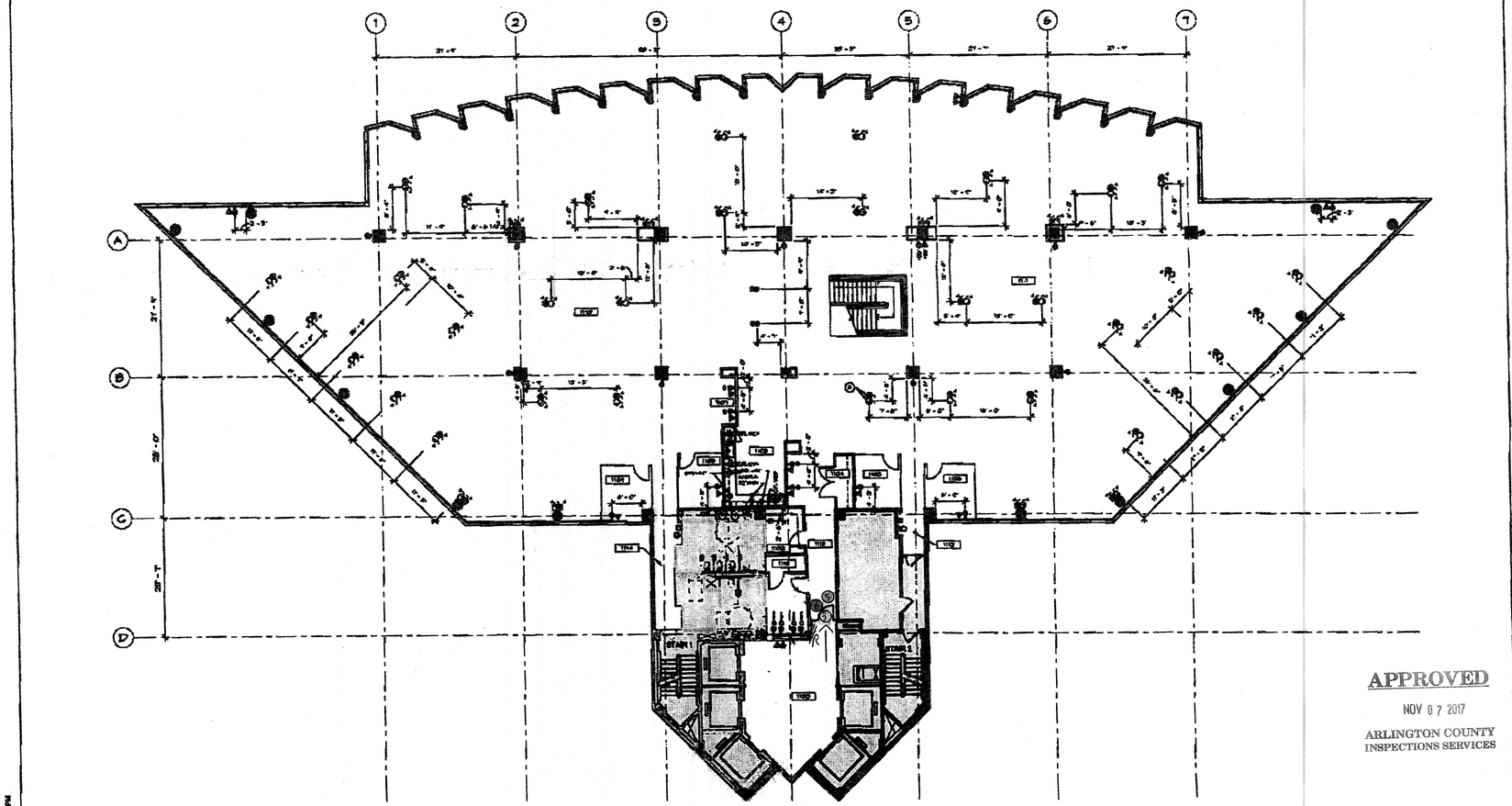
www.ul.com/database

POWER/SIGNAL NOTES

1	CONTRACTOR TO COORDINATE WITH LOCATION OF FLOOR BOX WITH FURNITURE VENDOR
2	FIELD VERIFICATION TO HAVE TO CALL 3 FLOOR BOXES EACH CABLE TYPE (i.e. COMMUNICATIONS, SMART WORKSTATION)
3	MODESTY PANEL MOUNTED 6" BELOW AFF
4	OPENING SAW CUT, 1" DEEP AND TEMPORARY 6" OF AFF
5	CONTRACTOR TO PROVIDE 6" DIA CONCRETE CORING FROM IT ROOM TO BASEMENT FOR CABLE TRAY
6	CONTRACTOR TO PROVIDE BLANK COVER PLATE FOR FUTURE USE
7	CONTRACTOR TO PROVIDE 4" DIA FLOOR CORE WITH SLEEVE FOR CAT 6 CABLING TO WORKSTATIONS

POWER/SIGNAL LEGEND

	POWER AND PHONE DATA RECEPTACLES TO BE INSTALLED HORIZONTALLY 4'-0" A.F.F.		DATA/TELE JACK FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.		6" DIA FLOOR CORE FOR CAT 6 CABLING
	DUPLEX RECEPTACLE FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N.		JUNCTION FOR CARD READER MOUNTED @ 48" A.F.F. PROVIDE 3/4" CONDUIT TO 24" ABOVE THE CEILING
	DUPLEX RECEPTACLES FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N. BY SHARE CIRCUIT		JUNCTION BOX @ 18" A.F.F. UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLES FLUSH MOUNTED VERTICALLY @ 18" A.F.F. U.O.N. BY SHARE CIRCUIT		SWITCH FOR EXHAUST FAN, MOUNTED @ 60" A.F.F.
	DUPLEX RECEPTACLE FLUSH MOUNTED HORIZONTALLY @ 18" A.F.F. U.O.N.		MOTH SCREEN DETHYDRATOR. PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	DUPLEX FLOOR CORE FLUSH MOUNTED BY PANDUIT LEGRAND, REMARKS / NOTES		DISPENSER, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	TELEPHONE JACK FLOOR CORE FLUSH MOUNTED, BY PANDUIT LEGRAND, REMARKS / NOTES		GARBAGE DISPOSAL, P.R.D. SHED ARE INSTALLED BY THE GENERAL CONTRACTOR
	JUNCTION BOX MOUNTED FLUSH WITH WALL/CEILING U.O.N. WITH ASSEMBLY, STUB OUT EXISTING CONDUIT		RADIATORS, PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR
	JUNCTION MOUNTED FLUSH WITH WALL/CEILING U.O.N. WITH PHONE OUTLET AND FOR CAMERA FUNCTION		
	4" DIA FLOOR CORE, FLOOR BOX WITH "TOP HAT" BY PANDUIT LEGRAND WITH POWER, DATA & TELEPHONE OUTLETS, SEE POWER SIGNAL NOTES #1 AND #2		
	4" DIA DATA AND/OR VOICE CABLING FLOOR BOX, BY PANDUIT LEGRAND WITH POWER, DATA & TELEPHONE OUTLETS, SEE POWER SIGNAL NOTES #1 AND #2		



1 11TH FLR POWER/SIGNAL PLAN
1/8" = 1'-0"

APPROVED
NOV 07 2017
ARLINGTON COUNTY
INSPECTIONS SERVICES

KASTLE DEVICES

KASTLE SYSTEMS

3 LOCKNETIC FAIL-SAFE ELECTRIC LOCK
MODEL 490 DELAYED EGRESS - SEE DRAWING #3

5 AUTO REQUEST TO EXIT DEVICE – SEE DRAWING #5

6 LOCK RELEASE PUSH BUTTON – SEE DRAWING #6

10 KASTLE FIRE UNLOCK CICUIT - SEE DRAWING #10

C/R CARD READER

< DIRECTION OF EGRESS

THE DELAYED EGRESS LOCK WILL UNLOCK
WHEN THE FIREMAN UNLOCK KEYSWITCH IS TURNED
TO THE UNLOCK POSITION

VGMA

INSIGHT GLOBAL
1001 19th STREET
ARLINGTON, VA 22209

PRELIMINARY	KMM
ARL PROC ASSN.	ASB
PROD ASSN.	ASB
SEALS	
JOB NUMBER	21609-016

11TH FLOOR POWER/SIGNAL PLAN

TA3.3-11

11th Floor

APPROVED

NOV 0 7 2017

ARLINGTON COUNTY
INSPECTIONS SERVICES

PLANS APPROVED BY		DATE
Off. of Zoning		
Water Sewer Div.		
DES Eng.		
Building	FRBelfer	11.7.2017
Electrical		
Plumbing		
Mechanical		
Fire		
Health San.		
Elevators		
Historical Districts		

KASTLE SYSTEMS LLC.

Permit Holder
KASTLE SYSTEMS LLC.

Type of Work: CADD

ACCCCESS CONTROL DOORS - 1 DOOR LOCK SYSTEMS

1001 19TH ST N ARL

B1702805

OFFICE COPY

Permit # B1702805 11/07/2017

Construction Drawing
Office Copy
PPC: 16-018-007
1001 19TH ST N

ARLINGTON
VIRGINIA