

DEPT. OF NATURAL RESOURCES BUILDING OIL GAS AND MINING

INTERIOR REMODEL
1594 W. NORTH TEMPLE, SALT LAKE CITY, UTAH

UTAH D.F.C.M.
PROJECT # 07262500

Eaton
77 West 200 South, Suite 302
Salt Lake City, UT 84101
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architecture

FINAL REVIEW
MAY 22, 2007

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LIST OF DRAWINGS:

ARCHITECTURAL

A101 EXISTING AND REMODEL MAIN LEVEL FLOOR PLAN
A102 NEW AND DEMOLITION MAIN LEVEL REFLECTED CEILING PLAN
A201 DOORS - WINDOWS AND DETAILS

MECHANICAL

M001 MECHANICAL GENERAL NOTES AND LEGENDS
M101 PARTIAL 1ST LEVEL MECHANICAL DEMOLITION PLAN
ME101 PARTIAL 1ST LEVEL MECHANICAL PLAN
ME501 MECHANICAL DETAILS
ME601 MECHANICAL SCHEDULES

ELECTRICAL

EO.01 GENERAL NOTES, DETAILS, AND SCHEDULES
E1.10 MAIN LEVEL FLOOR PLAN DEMOLITION
E2.1 MAIN LEVEL FLOOR PLAN POWER, LIGHTING, & SYSTEMS

CODE ANALYSIS

APPLICABLE CODES			
	YEAR		YEAR
INTERNATIONAL BUILDING CODE	2006	NATIONAL ELECTRICAL CODE	2008
INTERNATIONAL MECHANICAL CODE	2006	UNIFORM CODE FOR BUILDING CONSERVATION	
INTERNATIONAL PLUMBING CODE	2006	ADA ACCESSIBILITY GUIDELINES	
INTERNATIONAL FIRE CODE			
INTERNATIONAL ENERGY CONSERVATION CODE			

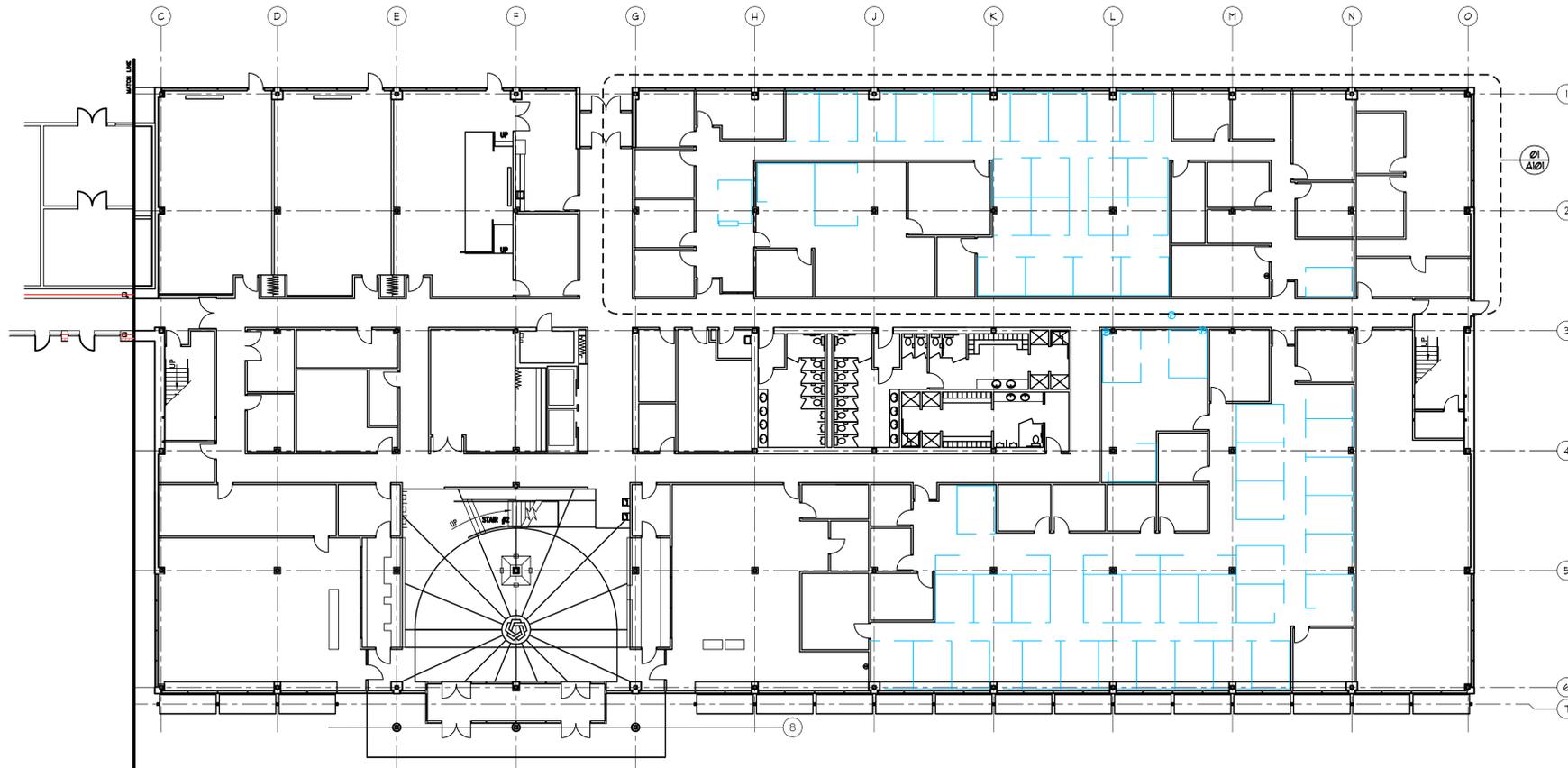
- A. OCCUPANCY AND GROUP: B
CHANGE IN USE: YES NO MIXED OCCUPANCY: YES NO
SPECIAL USE AND OCCUPANCY (E.G. HIGH RISE, COVERED MALL):
- B. SEISMIC DESIGN CATEGORY: II/A DESIGN WIND SPEED: II/A MPH
- C. TYPE OF CONSTRUCTION (CIRCLE ONE):
 I II III IV V VI
- D. FIRE RESISTANCE RATING. REQUIREMENTS FOR THE EXTERIOR WALLS BASED ON THE FIRE SEPARATION DISTANCE (IN HOURS):
 NORTH: N/A SOUTH: EAST: WEST:
- E. MIXED OCCUPANCIES: NONE NONSEPARATED USES:
- F. SPRINKLERS:
 REQUIRED: PROVIDED: YES TYPE OF SPRINKLER SYSTEM:
- G. NUMBER OF STORES: N/A BUILDING HEIGHT: N/A
- H. ACTUAL AREA PER FLOOR (SQUARE FEET): N/A
- I. TABULAR AREA: N/A
- J. AREA MODIFICATIONS:
 a) $A = A_1 \left[\frac{A_1 I}{100} \right] + \left[\frac{A_1 I}{100} \right] I = 100 \left[\frac{A}{B} - 0.25 \right] \frac{W}{30}$
 b) SUM OF THE RATIO CALCULATIONS FOR MIXED OCCUPANCIES:
 $\frac{\text{ACTUAL AREA}}{\text{ALLOWABLE AREA}} \leq 1$
 c) TOTAL ALLOWABLE AREA FOR:
 1) ONE STORY:
 2) TWO STORY: A(2)
 3) THREE STORY: A(3)
 d) UNLIMITED AREA BUILDING: YES N/A NO CODE SECTION:

ELEMENT	HRL ASSEMBLY LISTING		ELEMENT	HRL ASSEMBLY LISTING	
	HRL	ASSEMBLY LISTING		HRL	ASSEMBLY LISTING
EXTERIOR BEARING WALLS	<u>N/A</u>		FLOORS-CEILING FLOORS		
INTERIOR WALLS			ROOFS-CEILING ROOFS		
EXTERIOR NON-BEARING WALLS			EXTERIOR DOORS AND WINDOWS		
STRUCTURAL FRAME			SHAFT ENCLOSURES		
PARTITIONS-PERMANENT			FIRE WALLS		
FIRE BARRIERS			FIRE PARTITIONS		
			SMOKE PARTITIONS		

- L. DESIGN OCCUPANT LOAD: N/A
 EXIT WIDTH REQUIRED: EXIT WIDTH PROVIDED:
- M. MINIMUM NUMBER OF REQUIRED PLUMBING FACILITIES: N/A
 a) WATER CLOSETS-REQUIRED: 03 PROVIDED: 03
 b) LAVATORIES - REQUIRED: 03 PROVIDED: 03
 c) BATH TUBS OR SHOWERS:
 d) DRINKING FOUNTAINS: SERVICE SINKS:

FOOTNOTES:

- IN CASE OF CONFLICT WITH THE U.S. DEPARTMENT OF JUSTICE FEDERAL REGISTERS PARTS I THROUGH V - ADA GUIDELINES AND SPECIFIC REFERENCE TO THE INTERNATIONAL BUILDING CODE ACCESSIBILITY CHAPTERS, THE MORE RESTRICTIVE REQUIREMENT SHALL GOVERN.
- ADDITIONAL CODE INFORMATION SHALL BE PROVIDED AT THE DISCRETION OF THE BUILDING OFFICIAL FOR COMPLEX BUILDINGS, INCLUDING, BUT NOT LIMITED TO:
 - HIGH RISE REQUIREMENTS.
 - ATRIUMS.
 - PERFORMANCE BASED CRITERIA.
 - MEANS OR EGRESS ANALYSIS.
 - FIRE ASSEMBLY LOCATOR SHEET.
 - EXTERIOR AND INTERIOR ACCESSIBILITY ROUTE.
 - FIRE STOPPING, INCLUDING TESTED DESIGN NUMBER.



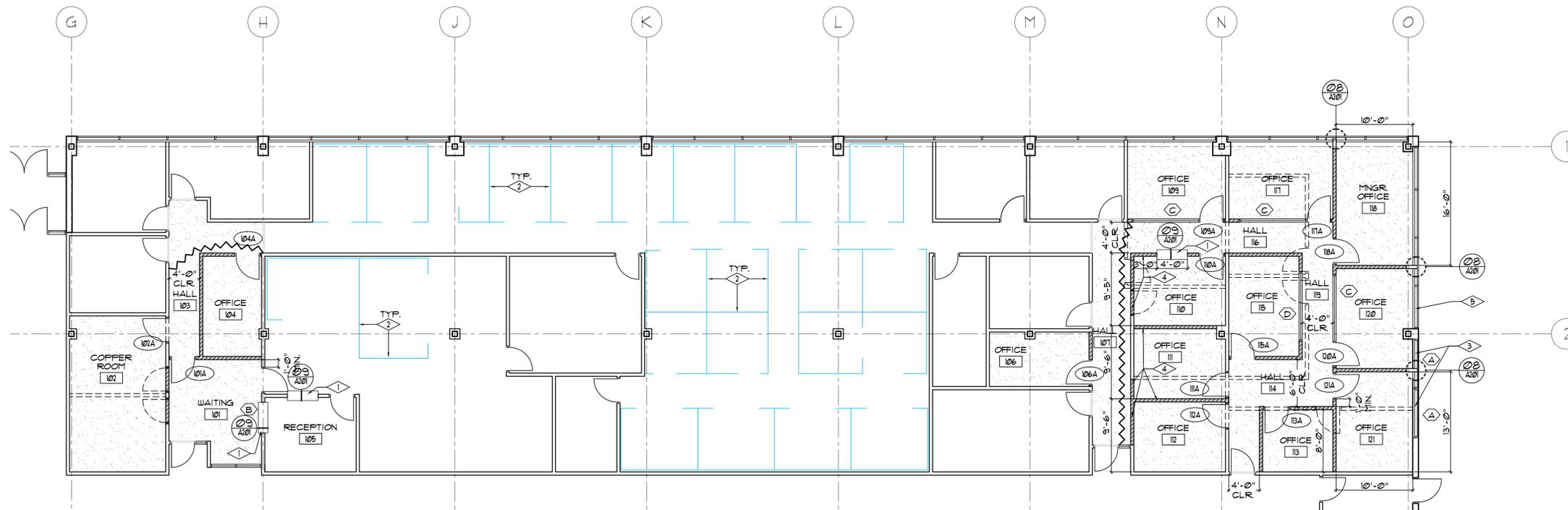
02 EXISTING MAIN LEVEL FLOOR PLAN
 A101 SCALE: 1/16" = 1'-0"

REFERENCE NOTES

- 1 NEW PLAST. LAM. COUNTER AT WALL OPENING.
- 2 EXIST. SYSTEMS FURNITURE WORK STATIONS TO REMAIN.
- 3 WINDOWS. CUT EXIST. EXTERIOR CLADDING AT JOINTS. .AC.
- 4 EXTEND THIS PARTITION TO 6" ABOVE CEILING.
- 5 REMOVE EXIST. BROKEN GLAZING AND INSTALL NEW DBL. PANED INSUL. GLAZING TO MATCH EXIST.

SYMBOL LEGEND

- NEW 3-5/8" MTL. STUD FRAMED PARTITION W/5/8" PAINTED GYP. BD. @ EA. SIDE W/ 4" COVERED RUBBER BASE. TO BTM. OF EXIST. CEILING AT 9'-0" AFF. - WNO.
- EXIST. STUD FRAMED WALL TO BE DEMOLISHED AND REMOVED.
- EXIST. FXTR/EQUIP/CSUK TO BE DEMOLISHED AND REMO.
- EXIST. WALL TO REMAIN.
- EXIST. DOOR AND FRAME TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION. SEE DOOR SCHEDULE.
- XXX DOOR TAG FOR NEW DOOR AND FRAME, OR SALVAGED, RE-INSTALLED DOOR AND FRAME. SEE DOOR SCHEDULE.
- X WINDOW TAG FOR NEW WINDOW. SEE WINDOW TYPES.
- FLOOR AREA TO DEMOLISH AND REMOVE EXIST. CARPET FLOORING AND INSTALL NEW CARPET FLOORING.
- TEMPORARY PLASTIC SHEET DUST BARRIER DURING CONSTRUCTION.



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OWNER
 UTAH D.F.C.M.

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	05-22-07	

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SHEET TITLE
 EXISTING AND REMODEL
 MAIN LEVEL FLOOR PLAN

A101

OF

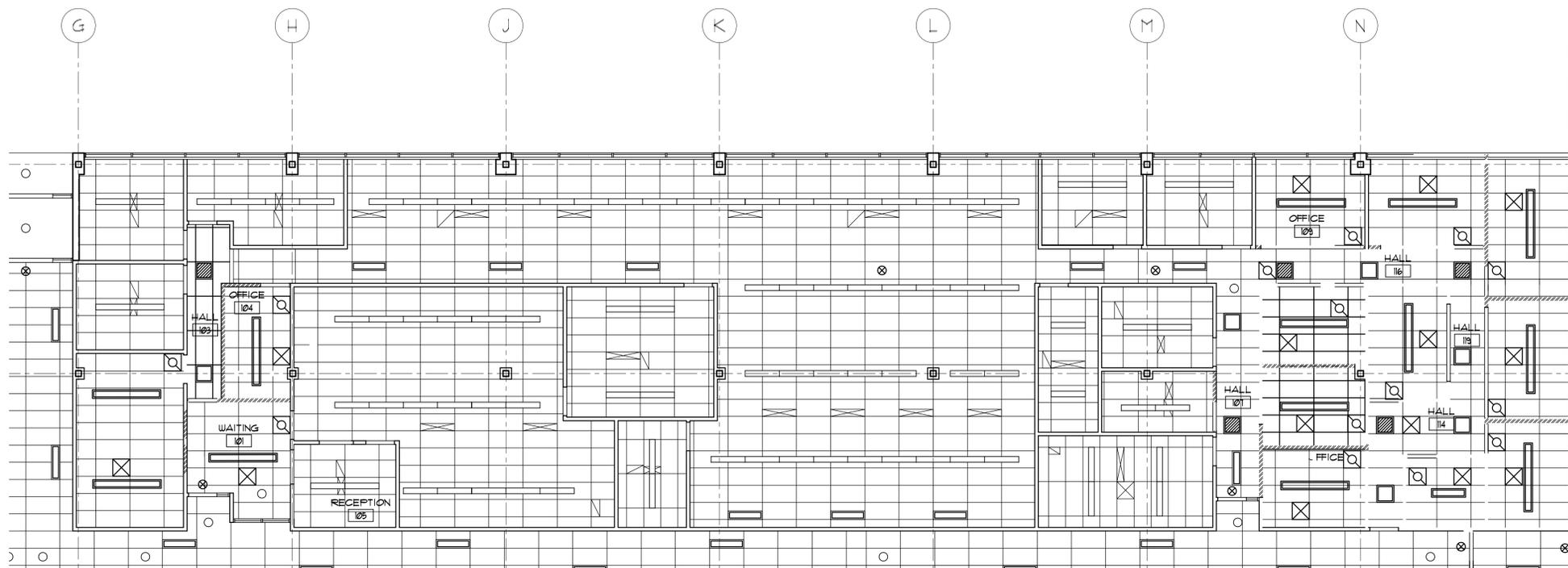


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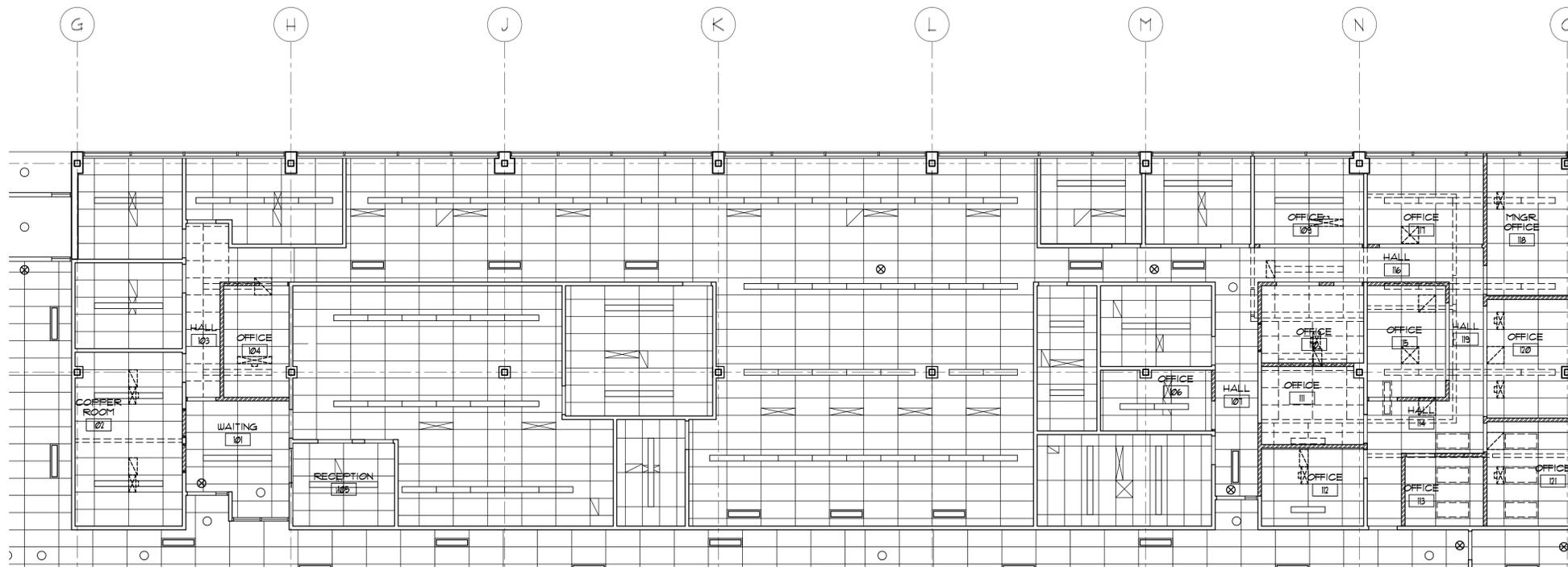


02 MAIN NEW LEVEL REFLECTED CEILING PLAN
A102 SCALE: 1/8" = 1'-0"



SYMBOL LEGEND

- 3-5/8" MTL. STUD FRAMED WALL W/5/8" PAINTED GYP. BD. @ EA. SIDE.
- 6" MTL. STUD FRAMED WALL W/5/8" PAINTED GYP. BD. @ EA. SIDE.
- EXIST. STUD FRAMED WALL TO BE DEMOLISHED AND REMOVED.
- EXIST. FXTR./EQUIP./CSUK. TO BE DEMOLISHED AND REMOVED.
- NEW 2'X4' LAY-IN ACOUST. CEILING PANELS AND GRID SYSTEM TO MATCH EXIST. ADJAC.
- NEW 2'X2' SUPPLY-AIR DIFFUSER. SEE MECH SHEETS.
- NEW 2'X2' RETURN-AIR DIFFUSER. SEE MECH SHEETS.
- NEW OR SALVAGED 8' SUSPENDED LINEAR INDIRECT LIGHT FXTR. SEE ELEC. SHEETS.



01 MAIN LEVEL DEMOLITION REFLECTED CEILING PLAN
A102 SCALE: 1/8" = 1'-0"



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SHEET TITLE
NEW AND DEMOLITION MAIN LEVEL
REFLECTED CEILING PLANS

A102

OF

SHEET NOTES:

- ① EXISTING VAV BOX TO REMAIN. REBALANCE AS SHOWN ON SHEET ME101.
- ② REMOVE EXISTING THERMOSTAT. SEE SHEET ME101 FOR NEW T-STAT IN NEW LOCATION.
- ③ DEMO EXISTING DIFFUSER / GRILLE / DUCTWORK AND HANGERS AS SHOWN.
- ④ EXISTING VAV BOX TO REMAIN.

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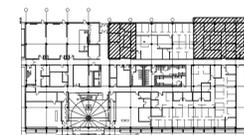
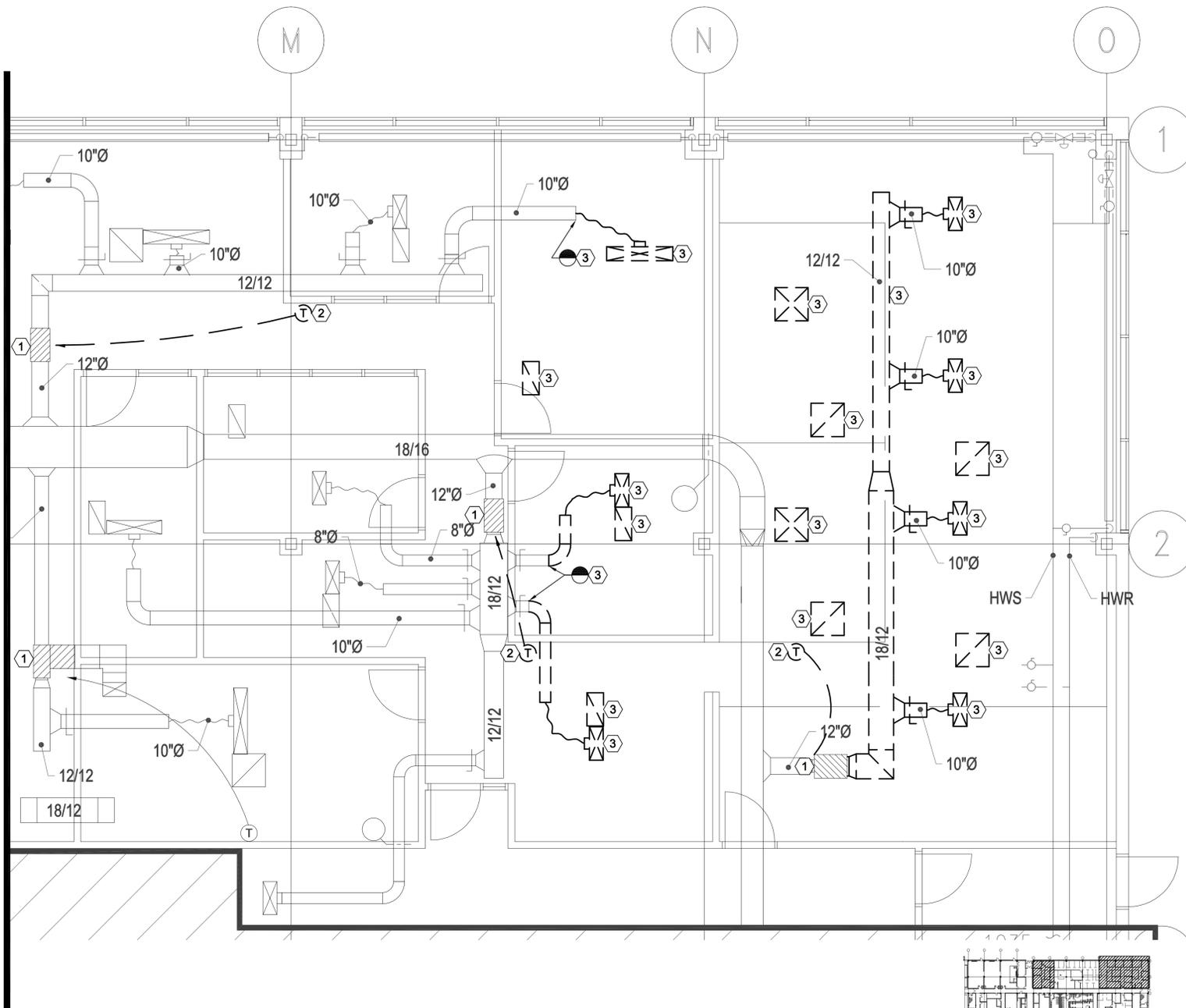
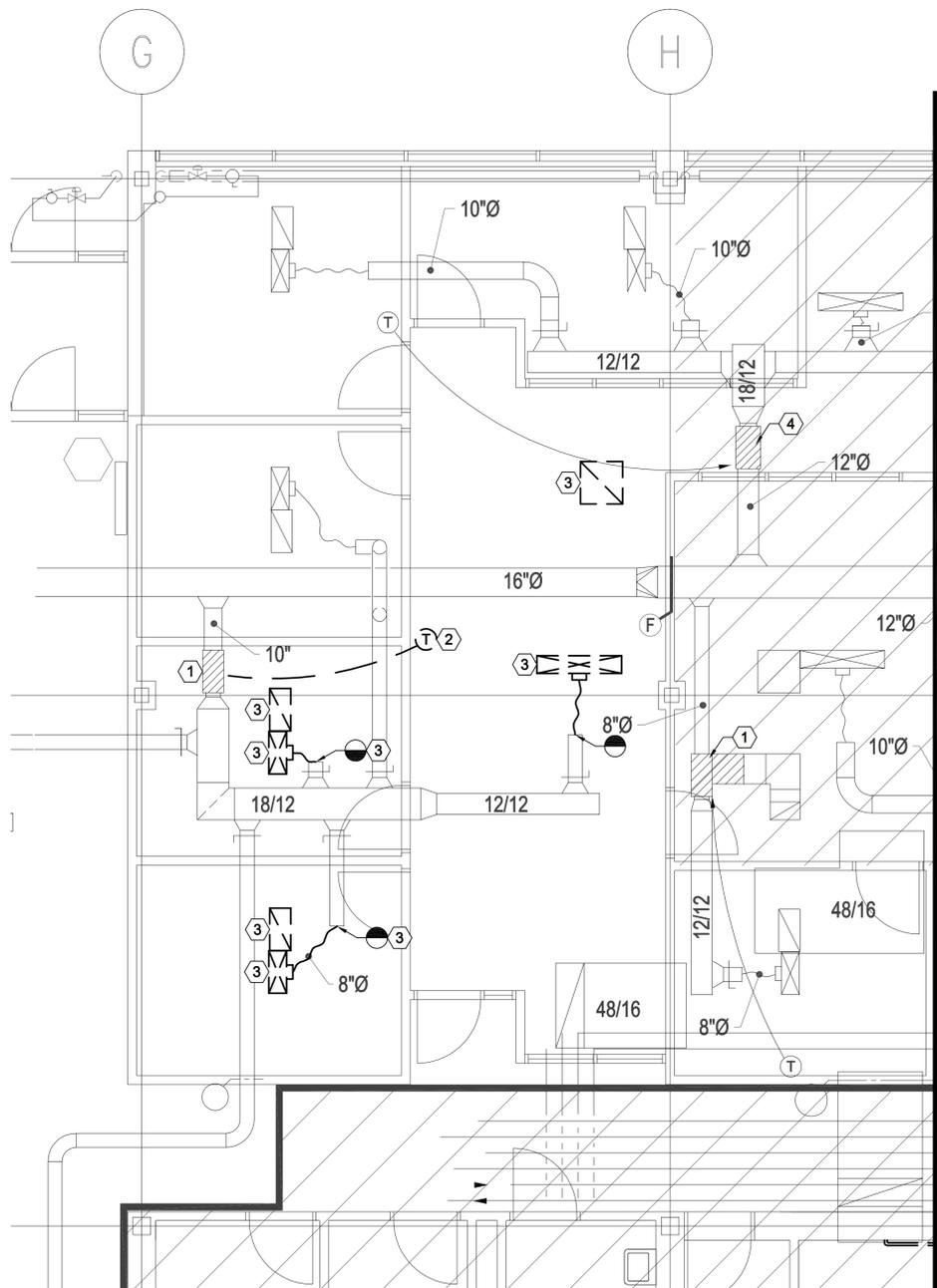
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SHEET TITLE
 PARTIAL 1ST LEVEL
 MECHANICAL DEMOLITION
 PLAN

MD101

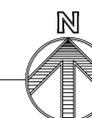
OF



A1 PARTIAL 1ST LEVEL MECHANICAL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



A2 PARTIAL 1ST LEVEL MECHANICAL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



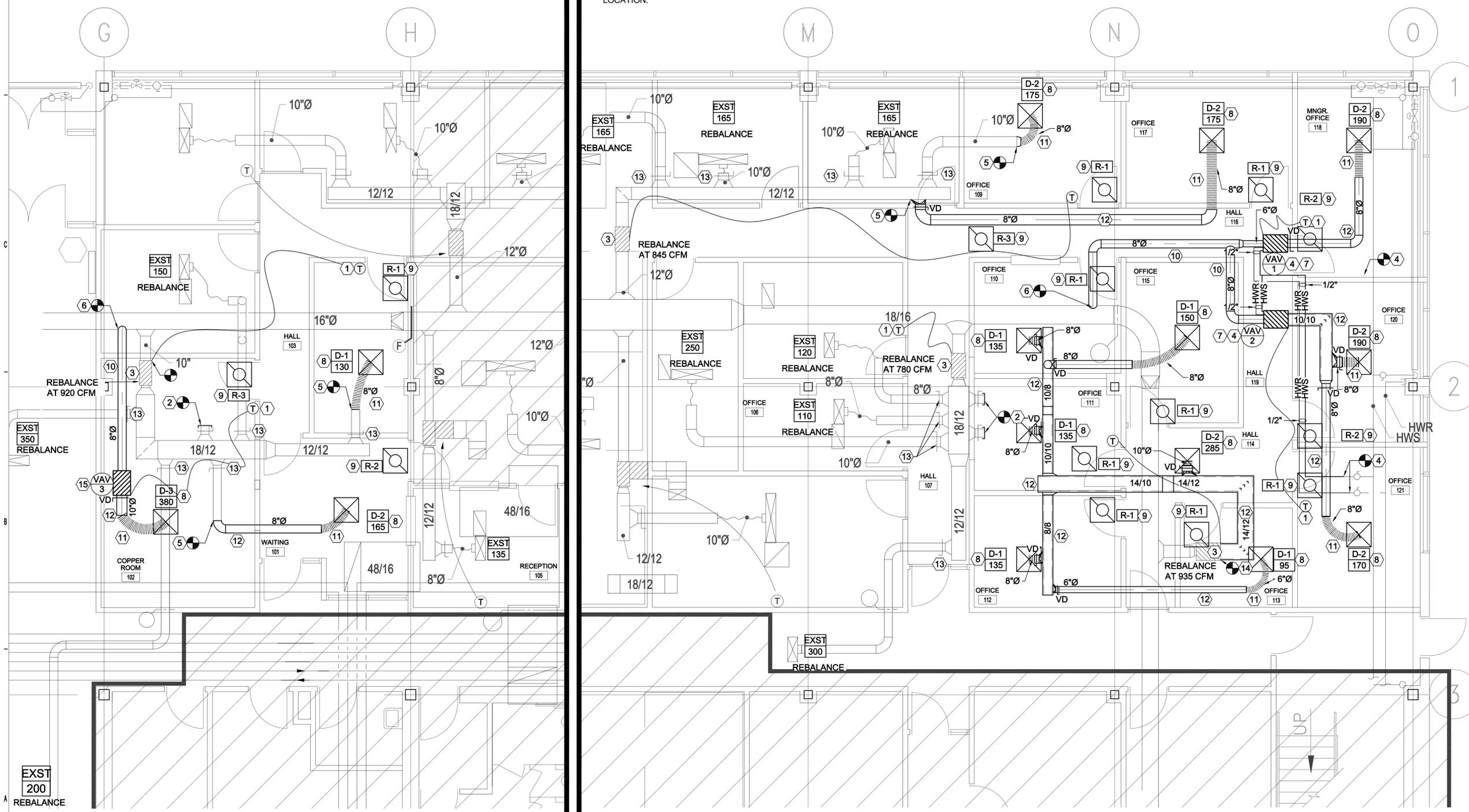
SHEET NOTES:

- ① COORDINATE LOCATION OF NEW THERMOSTAT WITH ARCH / OWNER.
- ② CAP EXISTING TAKEOFFS NO LONGER IN USE.
- ③ REBALANCE VAV BOX TO NEW CFM SHOWN ON PLAN.
- ④ TIE NEW VAV BOX WITH REHEAT INTO NEW HWS AND HWR, EXTENDED FROM EXISTING PIPING. FIELD VERIFY SIZE AND LOCATION.
- ⑤ TIE INTO EXISTING LOW PRESSURE SUPPLY AT THIS APPROXIMATE LOCATION. FIELD VERIFY SIZE AND LOCATION.

- ⑥ TIE INTO EXISTING MEDIUM PRESSURE DUCTWORK AT THIS APPROXIMATE LOCATION. FIELD VERIFY.
- ⑦ PROVIDE NEW VAV BOX WITH REHEAT COIL. TIE CONTROLS INTO EXISTING BUILDING AUTOMATION SYSTEM. SEE PIPING DETAIL.
- ⑧ PROVIDE NEW SUPPLY AIR CEILING DIFFUSER.
- ⑨ PROVIDE NEW RETURN AIR CEILING GRILLE.
- ⑩ PROVIDE NEW MEDIUM PRESSURE DUCTWORK.

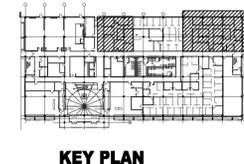
- ⑪ PROVIDE NEW FLEX DUCT. DO NOT EXCEED 6'-0". FLEX DUCT SHALL BE INSTALLED WITHOUT SAGS OR LOOPS.
- ⑫ PROVIDE NEW LOW PRESSURE DUCT.
- ⑬ VERIFY THAT AN EXISTING VOLUME DAMPER (VD) IS ON THIS BRANCH. PROVIDE NEW VD IF ONE IS NOT INSTALLED.
- ⑭ TIE NEW DUCTWORK INTO EXISTING VAV BOX OUTLET. FIELD VERIFY OUTLET SIZE.
- ⑮ PROVIDE NEW VAV BOX. TIE CONTROLS INTO EXISTING BUILDING AUTOMATION SYSTEM.

- ⑯ SEE ELECTRICAL FOR LOCATION OF CARD READERS, DOOR RELEASES AND CUSTOMER SERVICE BUZZER. UTAH CONTROLS SHALL EXTEND THEIR EXISTING CARD READERS SYSTEM ETC. TO INCLUDE THE NEW AND EXISTING DOORS SHOWN ON THE ELECTRICAL DRAWINGS. UTAH CONTROLS SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MATERIALS FOR THE NEW CARD READERS, REMOTE DOOR RELEASES AND CUSTOMER SERVICE BUZZER. COORDINATE WITH OWNER FOR EXACT LOCATIONS AND REQUIREMENTS.



A1 PARTIAL 1ST LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

A2 PARTIAL 1ST LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



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PARTIAL 1ST LEVEL MECHANICAL PLAN

HANGER SIZES FOR DOUBLE HUNG RECTANGULAR DUCTS						
MAXIMUM HALF OF DUCT PERIMETER P/2 =	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 4 FT. SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
30"	1" x 22 ga.	10 ga.	1" x 22 ga.	10 ga.	1" x 22 ga.	12 ga.
72"	1" x 18 ga.	3/8"	1" x 20 ga.	1/4"	1" x 22 ga.	1/4"
96"	1" x 16 ga.	3/8"	1" x 18 ga.	3/8"	1" x 22 ga.	1/4"
120"	1-1/2" x 16 ga.	1/2"	1" x 16 ga.	3/8"	1" x 20 ga.	1/4"
168"	1-1/2" x 16 ga.	1/2"	1-1/2" x 16 ga.	1/2"	1" x 18 ga.	3/8"
192"	---	1/2"	1-1/2" x 16 ga.	1/2"	1" x 16 ga.	3/8"

193" AND UP REQUIRE SPECIAL ANALYSIS

C1 DUCT HANGER SIZING
SCALE: NONE

DUCT DIAMETER IN INCHES	LOW PRESSURE ROUND DUCT CONSTRUCTION SCHEDULE			
	MAXIMUM 2" W.G. STATIC POSITIVE		MAXIMUM 2" W.G. STATIC NEGATIVE	
	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE
3 thru 8	28	28	28	24
9 thru 14	28	26	26	24
15 thru 26	26	24	24	22
27 thru 36	24	22	22	20
37 thru 50	22	20	20	18

B1 LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE

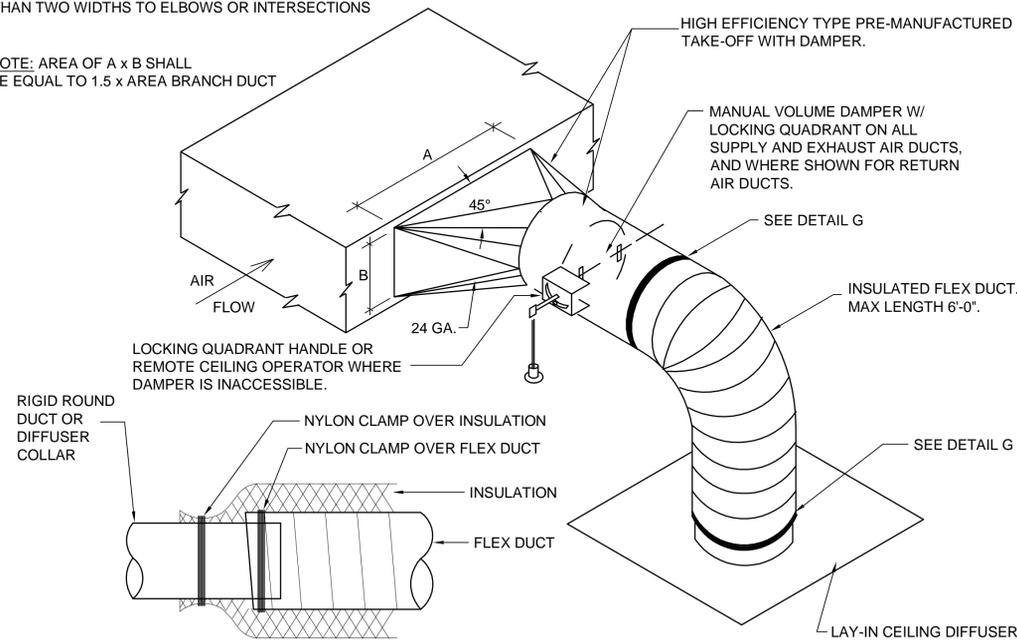
DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1) AT JOINTS				
			MIN. H. IN.	DRIVE SLIP	HEMMED SLIP	ALTERN. BAR SLIP	REINFORCED BAR SLIP
			RECOM. MENDED GAGE	RECOM. MENDED GAGE	RECOM. MENDED GAGE	RECOM. MENDED GAGE	
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"X1"X1/8" @ 60 IN	1	-	24	24	24
31 - 36	22	1"X1"X1/8" @ 60 IN	1	-	-	22	22

1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

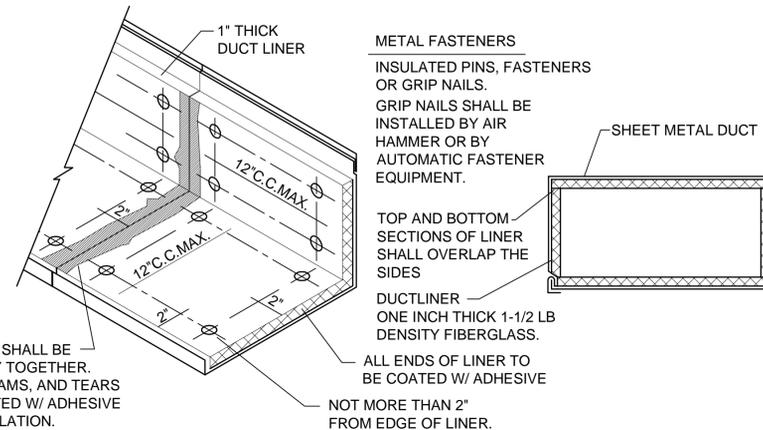
A1 DUCT CONSTRUCTION DETAIL
SCALE: NONE

NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS

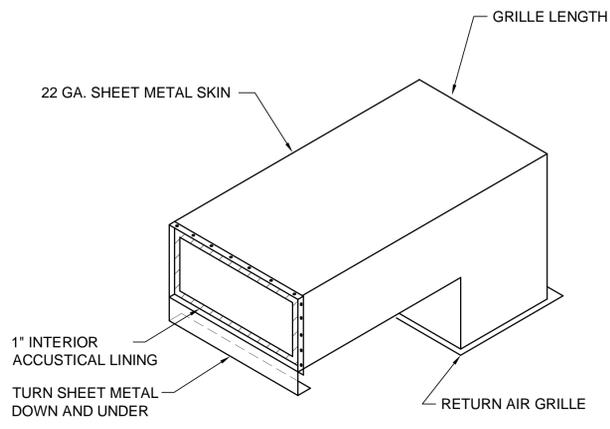
NOTE: AREA OF A x B SHALL BE EQUAL TO 1.5 x AREA BRANCH DUCT



B2 SQUARE-TO-ROUND TAKE-OFF DETAIL
SCALE: NONE

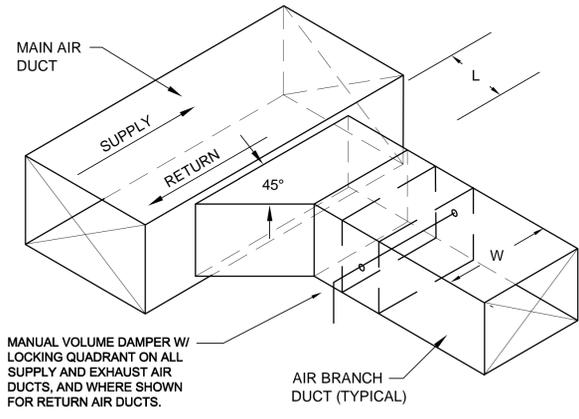


A3 DUCT LINER DETAIL
SCALE: NONE



C4 RETURN AIR BOOT DETAIL
SCALE: NONE

NOTE: L=1/4 W (4" MINIMUM.)



B4 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: NONE

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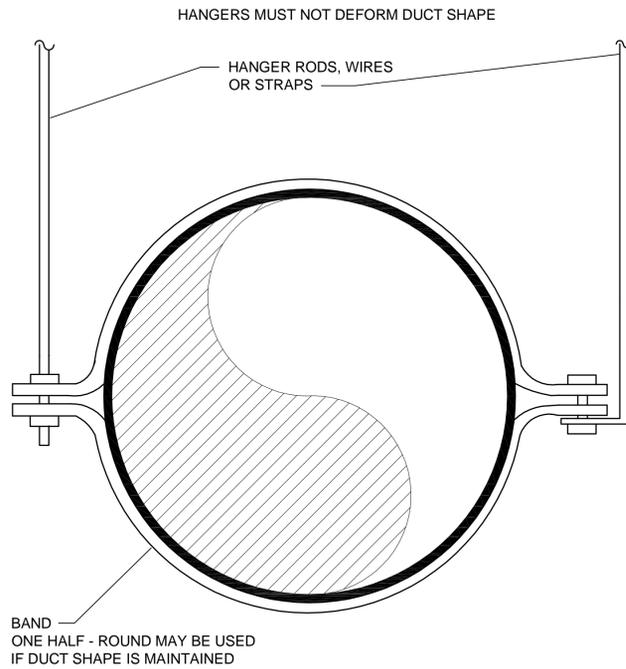
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SHEET TITLE
MECHANICAL DETAILS

ME501

OF



C1 DUCT SUPPORTS
SCALE: NONE

DIFFUSER SCHEDULE								
SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	CEILING	150	6X6	6"Ø & 8"Ø	LAY-IN	4-WAY		1,2,3,4
D-2 CFM	CEILING	200	9X9	8"Ø	LAY-IN	4-WAY		1,2,3,4
D-3 CFM	CEILING	400	12X12	10"Ø	LAY-IN	4-WAY		1,2,3,4

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED.
3. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
4. DIFFUSER SHALL BE PRICE MODEL SMD OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.

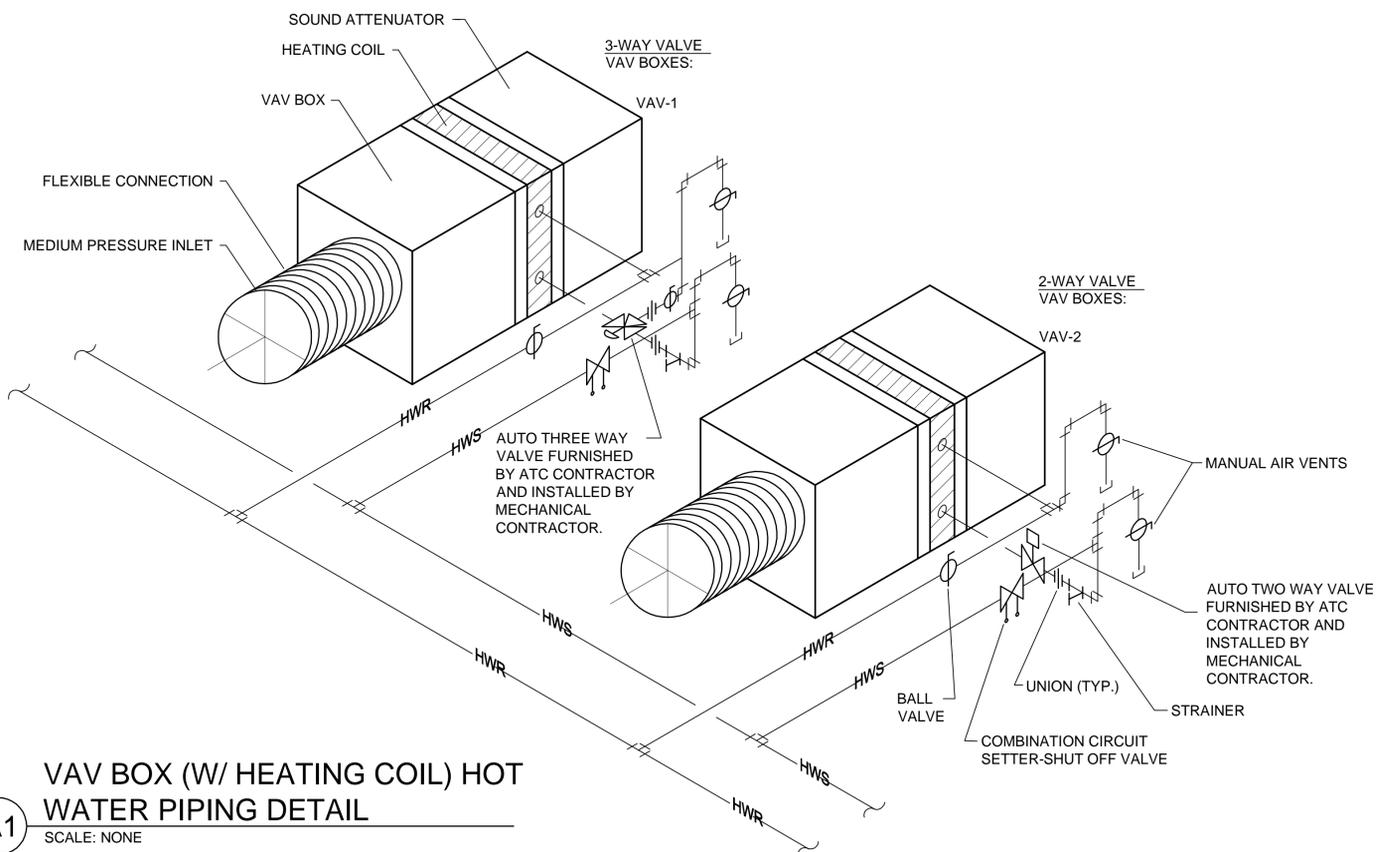
REGISTER, LOUVER & GRILLE SCHEDULE							
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	180	8/8	8/8	LAY-IN	1,2,3,4
R-2	CEILING	RETURN	200	10/10	10/10	LAY-IN	1,2,3,4
R-3	CEILING	RETURN	400	16/16	16/16	LAY-IN	1,2,3,4

REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
5. FINISH TO BE SPECIFIED BY ARCH

VAV BOX SCHEDULE																
SYMBOL	SERVES	INLET DIA. (INCHES)	INLET VELOCITY (FPM)	COOLING			HEATING (40° DELTA T)							NC LEVEL	MANUF. MODEL #	SCHEDULE NOTES
				MAX CFM	MIN CFM	MX APD (IN)	COIL EAT	COIL LAT	MAX CFM	COIL BTUH	FLOW GPM	EWT	(FT) PD			
VAV 1	MNGR OFFICE 118	6"Ø	1000	190	75	.11	65	100	190	6800	.5	180	.12	1	25	PRICE SDV
VAV 2	OFFICE 120,121	8"Ø	1100	360	150	.17	65	100	360	12600	.75	180	.12	2	25	PRICE SDV
VAV 3	COPPER RM 102	8"Ø	1100	380	150	.17	-	-	-	-	-	-	-	-	25	PRICE SDV

1. MOUNT FROM EXISTING JOISTS USING FOUR (4) ALL THREAD RODS, ONE AT EACH CORNER.



A1 VAV BOX (W/ HEATING COIL) HOT WATER PIPING DETAIL
SCALE: NONE



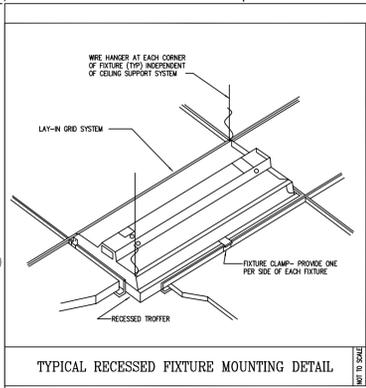
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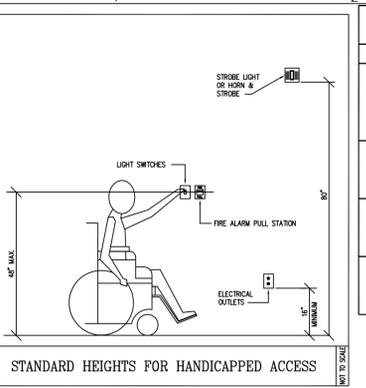
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 MECHANICAL SCHEDULES AND DETAILS

ME601
 OF



TYPICAL RECESSED FIXTURE MOUNTING DETAIL



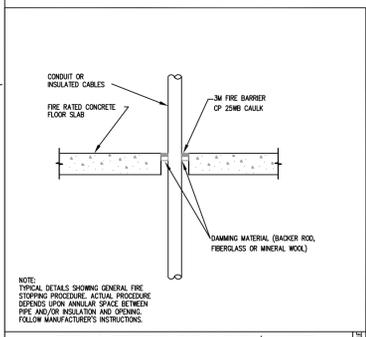
STANDARD HEIGHTS FOR HANDICAPPED ACCESS

LIGHTING FIXTURE SCHEDULE				
SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	LINEAR INDIRECT LIGHT FIXTURE TO MATCH EXISTING ONES. THE CONTRACTOR IS ALLOWED TO UTILIZE EXISTING FIXTURES IF POSSIBLE. PROVIDE PROPER END CAP, SUSPENSION HARDWARE, ETC. FOR A COMPLETE INSTALLATION. REPAIR FIXTURES AS REQUIRED. FIELD VERIFY. DO NOT REUSE DAMAGED FIXTURES.	3F32 PER 4'	LEDALITE	260T3
			X	X
			X	X
T-2	2' X 2' RECESSED LIGHT FIXTURE WITH - 125 LENS	2F32 ULAMP	COLUMBIA	STR22-232-446-G-FSA-125-EB8-UWV
EX-1	GREEN LED EXIT SIGN TO MATCH EXISTING SIGNS. FIELD VERIFY. TIE TO THE NEAREST UNSWITCHED EMERGENCY CIRCUIT.	X	PRESCOLITE	X
		X	X	X
		X	X	X
EX-2	SAME AS EX-1 EXCEPT WITH DOUBLE FACE.	X	PRESCOLITE	X
		X	X	X
		X	X	X

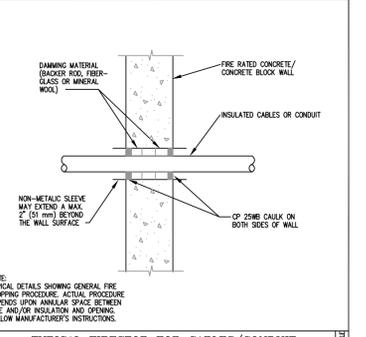
NOTES:
 1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10% TOTAL HARMONIC DISTORTION UNIVERSAL, ADVANCE AND HOWARD ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
 2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
 3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
 4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
LIGHTING SYMBOLS	
	RECESSED FLUORESCENT FIXTURE
	SURFACE MOUNTED FLUORESCENT FIXTURE
	INDUSTRIAL STRIP LIGHT
	RECESSED FIXTURE
	FIXTURES ON EMERGENCY POWER
	EXIT LIGHT, ARROWS SHOW EXIT DIRECTION
	LIGHTING FIXTURE CALLOUT, NUMBER INDICATES A SUGGESTED QUANTITY, TO BE VERIFIED
	REFERENCE NOTE CALLOUT
	SINGLE POLE TOGGLE SWITCH - 20 AMP
	SINGLE POLE TOGGLE SWITCH - 20 AMP LETTERS INDICATE SWITCH ASSIGNMENT
	THREE WAY TOGGLE SWITCH - 20 AMP
POWER SYMBOLS	
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP GFI DO NOT PROTECT DOWNSTREAM GFI OUTLETS.
	ARROWS INDICATE HOME RUNS - NUMBER OF CONDUCTORS AS REQUIRED
	FLUSH TELEPHONE/DATA OUTLET
	FLUSH TELEPHONE OUTLET
	FLUSH DATA OUTLET
	ELECTRICAL PANEL LOCATION
	DUEL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THE ROOM.
	DUEL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THE ROOM.
	CARD READER
	DOOR STRIKE
GENERAL NOTE SYMBOLS	
WP	INDICATES WEATHER PROOF EQUIPMENT
A	INDICATES DEVICE IS ABOVE COUNTER TOP-42" AFF REFER TO ARCHITECTURAL ELEVATION
WG	INDICATES DEVICES WITH LOW PROFILE WIREGUARD. SUBMIT APPROVAL

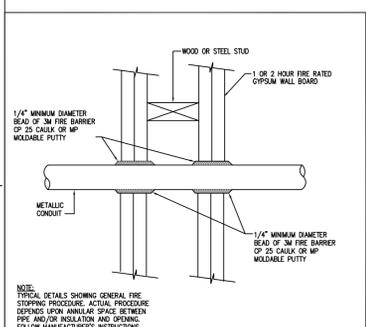
- GENERAL NOTES:**
- THE COLOR OF ALL THE NEW DEVICES AND COVERPLATES SHALL BE COORDINATED WITH ARCHITECT.
 - REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF LIGHT FIXTURES.
 - THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
 - MINIMUM SIZE OF CONDUIT IS 3/4". A 1/2" CONDUIT MAY BE USED FOR CONTROL CABLES.
 - USE RIGID STEEL, SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTING SHALL NOT BE USED.
 - SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING SCHEDULE.
 - ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
 - NOT MORE THAN THREE (3) CIRCUITS SHALL BE INSTALLED IN A 3/4" CONDUIT.
 - THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE A NO. 10 AWG FOR ALL HOMERUNS WITH A COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
 - THE MINIMUM SIZE OF THE CONDUCTORS SHALL BE A NO. 12 AWG, THIN COPPER, UNLESS INDICATED OTHERWISE IN THE DRAWINGS.
 - ALL J-BOXES SHALL HAVE A MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
 - ALL THE HOMERUNS MUST BE ACCESSIBLE. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE INSIDE THE WALL. MARK ON ALL J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THIN CONDUCTORS FOR HOMERUNS OVER 100 FEET IN LENGTH, NO. 8 THIN FOR OVER 200 FEET, AND NO. 4 THIN FOR OVER 400 FEET.
 - COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
 - LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH A ONE PIECE COVERPLATE.
 - USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTABLE.
 - AT THE END OF THE JOB, PROVIDE BLANK, MATCHING COVERPLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
 - SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH A FIRE RATED MATERIAL, 3M IS AN APPROVED MANUFACTURER.
 - ALL DISCONNECTS SHALL BE OF A HEAVY DUTY TYPE.
 - ALL MATERIALS USED IN INSTALLATION SHALL BE U.L. APPROVED AND NEW.
 - ALL ELECTRICAL WIRING MUST BE IN A CONDUIT (ROMEX NOT PERMITTED).
 - NO CONDUITS SHALL RUN IN DUCT WORK.
 - PRIOR TO SUBMITTAL FOR A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN THEIR BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABORS, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THIS GUARANTEED PERIOD.
 - ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP, 120 VOLT SPEC GRADE, HUBBELL AND PASS & SEYMOUR ARE APPROVED MANUFACTURERS.
 - THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS.
 - THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS WITH A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS, IN WRITING, TO THE ARCHITECT/ENGINEER WITH A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
 - PROVIDE A TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.
 - IF POSSIBLE, MOUNT EXIT SIGN INDICATED NEAR A WALL ON THE WALL.
 - CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
 - DEATILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
 - ALL NEW EXPOSED CONDUITS MUST RUN AGAINST THE WALL OR CEILING. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILING.



TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING



TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS



FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD

CIRCUIT LENGTH (REFER TO THE CHART BELOW FOR WIRE SIZE)

MINIMUM CONDUCTOR SIZE	MAX CIRCUIT LENGTH (120 VOLT)	MAX CIRCUIT LENGTH (277 VOLT)
#12	75 FT	180 FT
#10	125 FT	260 FT
#8	205 FT	420 FT
#6	325 FT	660 FT
#4	400 FT	900 FT

TYPICAL BRANCH CIRCUIT LENGTH DETAIL

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 1230 SOUTH 300 WEST
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LICENSED PROFESSIONAL ENGINEER
 NO. 334543-2202
MANSOUR AGHDASI
 STATE OF UTAH

DEPT. OF NATURAL RESOURCES BUILDING
 INTERIOR REMODEL
 1594 W. NORTH TEMPLE, SALT LAKE CITY, UTAH

OWNER
UTAH D.F.C.M.

MARK	DATE	DESCRIPTION
	05-31-07	

PROJECT NUMBER: 2007-10
 DRAWING FILE:
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SHEET TITLE
 GENERAL NOTES, DETAILS,
 AND SCHEDULES

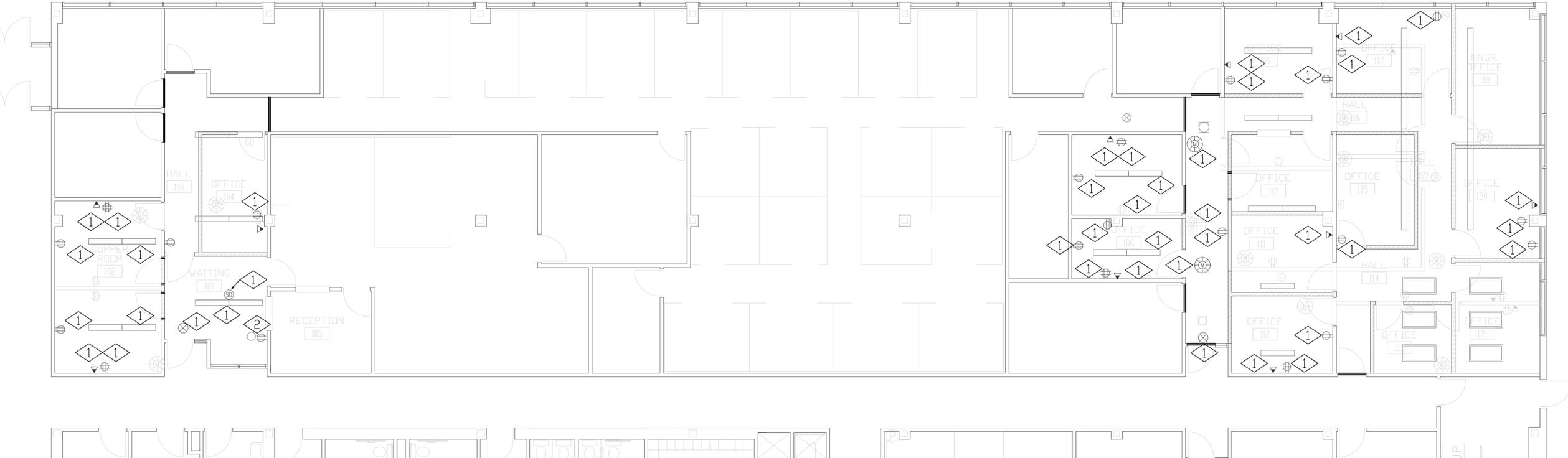
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REFERENCE NOTES:

- ◊ EXISTING DEVICES TO REMAIN. PROTECT THE DEVICES AND MAINTAIN CIRCUIT INTEGRITY.
- ◊ MAKE ANY ELECTRICAL MODIFICATIONS NECESSARY TO ALLOW INSTALLATION OF NEW WINDOWS.

DEMOLITION NOTES:

1. IN THE EXISTING SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS, UNLESS INDICATED OTHERWISE. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
2. ALL MATERIALS THAT ARE TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
3. ALL CONCEALED CONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
4. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUITS INTEGRITY.



MARK	DATE	DESCRIPTION
	05-31-07	

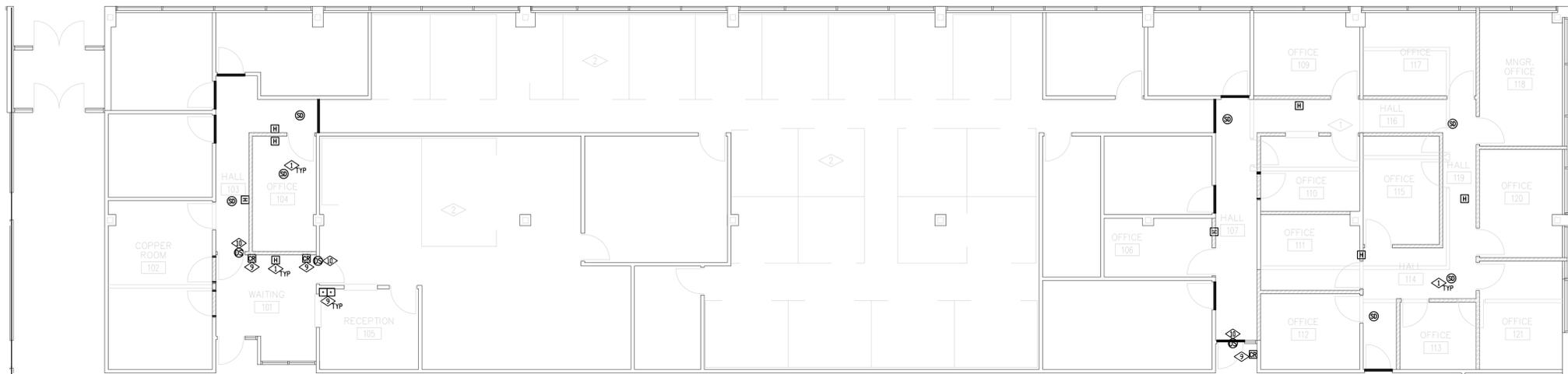
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SHEET TITLE
**MAIN LEVEL FLOOR PLAN
 DEMOLITION**

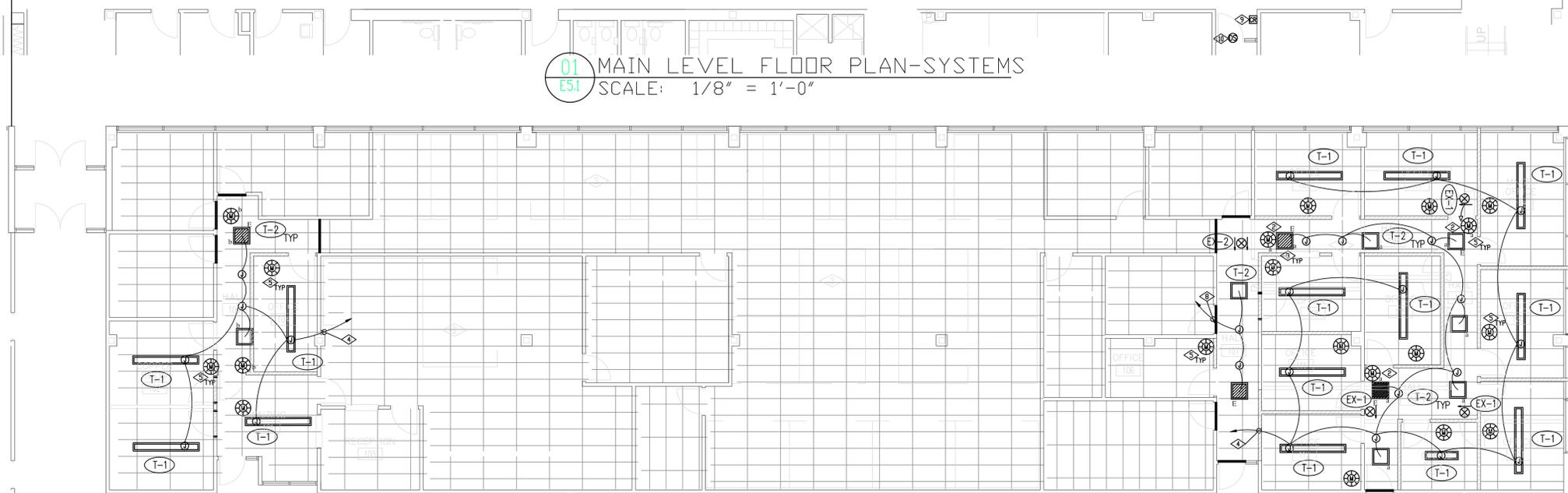
E1.1

01 MAIN LEVEL FLOOR PLAN DEMOLITION
E1.0 SCALE: 1/8" = 1'-0"

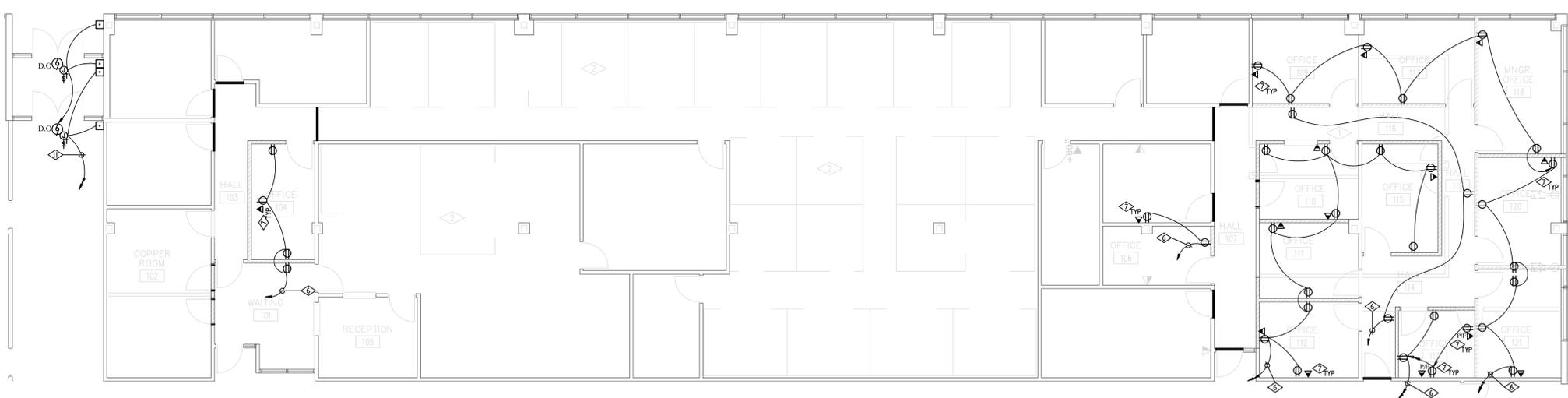




01 MAIN LEVEL FLOOR PLAN-SYSTEMS
E5.1 SCALE: 1/8" = 1'-0"



01 MAIN LEVEL FLOOR PLAN-LIGHTING
E9.1 SCALE: 1/8" = 1'-0"



01 MAIN LEVEL FLOOR PLAN-POWER
E2.1 SCALE: 1/8" = 1'-0"



REFERENCE NOTES:

- 1. FURNISH AND INSTALL NEW FIRE ALARM DEVICES IN THE APPROXIMATE LOCATIONS SHOWN. TIE THE NEW DEVICES TO THE EXISTING FIRE ALARM CONTROL PANEL. UTILIZE CLASS "A" LOOP. RUN ALL CABLES IN CONDUIT. REFER TO FIRE ALARM RISER DIAGRAM. PROVIDE CONDUITS, CONDUCTORS, RELAY, ETC. FOR A COMPLETE INSTALLATION. THE NEW DEVICES SHALL BE THE SAME AS EXISTING DEVICES AND BE COMPATIBLE WITH THE EXISTING SYSTEM. TEST AND CERTIFY THE ENTIRE FIRE ALARM SYSTEM TO MEET THE LOCAL A.H.J. PROVIDE ADDITIONAL HARDWARE, SOFTWARE, ETC. FOR A COMPLETE INSTALLATION.
- 2. TIE ALL FIXTURES INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING MOTION SENSORS. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. THE LIGHT FIXTURES IN THE HALLWAYS SHALL TURN ON WITH ANY OF THE MOTION SENSORS SHOWN.
- 3. EMERGENCY LIGHT FIXTURES INDICATED WITH THE LETTER "E" SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR THE CENTER LAMP. ONE LAMP WITH 1100 LUMENS IN THE LIGHT FIXTURE SHALL TURN ON WHEN THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL SWITCH. TIE THESE FIXTURES TO THE NEAREST EMERGENCY LIGHTING CIRCUIT WITH AVAILABLE AMPACITY. FIELD VERIFY. PROVIDE CONDUITS, CONDUCTORS, RELAY, ETC. FOR A COMPLETE INSTALLATION. RUN THE EMERGENCY CIRCUITS IN A SEPARATE CONDUIT.
- 4. TIE THE LIGHT FIXTURES TO THE NEAREST 277 VOLT, 20 AMP LIGHTING CIRCUIT WITH AVAILABLE AMPACITY. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. FIELD VERIFY.
- 5. FURNISH AND INSTALL A CEILING MOUNTED MOTION SENSOR TO CONTROL THE LIGHT FIXTURES IN THE ROOM. SET THE TIME DELAY FOR 30 MINUTES. WATT STOPPER & SENSOR SWITCH ARE THE APPROVED MANUFACTURERS. THE CONTRACTOR IS ALLOWED TO USE THE EXISTING MOTION SENSORS IF THEY ARE IN GOOD WORKING CONDITION. PROVIDE ADDITIONAL HARDWARE, RELAYS, ETC. FOR A COMPLETE INSTALLATION.
- 6. TIE EACH HOMERUN TO A DEDICATED 120 VOLT, 20 AMP CIRCUIT ON THE SAME FLOOR. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. COORDINATE WITH THE BUILDING MANAGEMENT FOR THE LOCATION OF ELECTRICAL PANEL. FIELD VERIFY.
- 7. FURNISH AND INSTALL A 4"x4"x2-1/8" J-BOX IN THE APPROXIMATE LOCATION SHOWN FOR VOICE/DATA. RUN TWO 1" CONDUITS WITH PULL-STRINGS FROM THE J-BOX TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR. COORDINATE WITH THE OWNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 8. TIE TO THE EXISTING LIGHT CIRCUIT IN THE HALLWAY THROUGH THE EXISTING MOTION SENSOR.
- 9. FURNISH AND INSTALL A 4"x4"x2 1/2" J-BOX IN THE APPROXIMATE LOCATIONS SHOWN FOR CARD READER/DOOR RELEASE. RUN A 2" CONDUIT WITH PULL STRING FROM THE J-BOX TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR. COORDINATE WITH THE OWNER FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- 10. RUN A 2" CONDUIT WITH PULL STRING FROM THE DOOR STRIKE TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR. COORDINATE WITH THE SUPPLIER PRIOR TO ROUGH-IN.
- 11. AS ALTERNATE BID #1, PROVIDE POWER TO THE DOOR OPENER TO A 120 VOLT, 20 AMP DEDICATED CIRCUIT. ALSO INSTALL AND WIRE THE CONTROL SWITCHES PROVIDED BY OTHERS. COORDINATE WORK WITH THE ARCHITECT FOR LOCATIONS.



DEPT. OF NATURAL RESOURCES BUILDING
 INTERIOR REMODEL
 1594 W. NORTH TEMPLE, SALT LAKE CITY, UTAH
 OWNER: UTAH D.F.C.M.

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	05-31-07	

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SHEET TITLE
 MAIN LEVEL FLOOR PLAN
 POWER, LIGHTING, & SYSTEMS

E2.1