DRAPER HQ ENERGY CONSERVATION UPGRADE
UTAH NATIONAL GUARD
DFCM PROJECT #07278480

DFCM DESIGN AND CODE CRITERIA

(Fee A.E: Attach and fill in applicable data for each drawing submittal)

Applicable Codes:	Year		Year
International Building Code	2003	International Mechanical Code	2003
Planning & Design Criteria to Prevent Architectural Barriers for the Aged and the Physically Handicapped.		International Plumbing Code	2003
		Ashrae/IES Energy Code	90.1-1999-2003
		National Electrical Code	2002

A. Occupancy and Group : B / S-1 — EXISTING

Change in Use : Yes ____ No ____ Mixed Occupancy : Yes ____ No ____

B. Type of Construction (Circle) — EXISTING

I	II	II	II	III	III	IV	V	V
F.R.	F.R.	1 HR.	B	1 HR.	N	H.T.	1 HR.	N

C. Location on Property : F.R. Ext. Walls (Hrs.): N.R. Ext. Wall Opening(s) Protection (Hrs.) N.R.

D. Occupancy separation required (Hrs.): — EXISTING — Each Occupancy

Sprinklered: Indicate Yes or No

Stories : 1 or multiple

a. Actual Area^2(ft)

b. Basic allowable area :

c. Allowable Area Increase due to side yards: N.A.

%	Area (ft^2)	%	Area (ft)	%	Area (ft)
	N.A.				

d. Side yard area increase (ft): N.A.

Accumulative sub-total (b=d):

Sprinkler: area increase (x3 single)

(x 2 multi)

e. Total Allowable Area for a single story: N.A.

x 2 for multi-story building:

f. Ratio = a/e (Actual divided by allowable)

E. Fire-Resistive Requirements (Hrs.): (1 Hr., 2Hr., 3Hr., 4Hr., N. H.T.)

Exterior Bearing Walls:	N	Floors - Ceiling Floors	N
Interior Bearing Walls:	N	Roofs - Ceiling Roofs	N
Exterior Non-bearing Walls:	N	Exterior Doors and Windows	NR
Structural Frame:	N	Shaft Enclosures	1 HR
Partitions - Permanent:	N		

(OCCUPANCY SEPARATION - N.A.)

THE GREAT SEAL OF THE STATE OF UTAH — INDUSTRY — 1847 — 1896

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DRAWING INDEX:

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ME102	MECHANICAL 2ND FLOOR PLAN
ME601	MECHANICAL SCHEDULES
E-0.1	GENERAL NOTES, DETAILS & SCHEDULES
E-2.0	MAIN FLOOR PLAN-DEMOLITION
E-2.1	MAIN FLOOR PLAN-LIGHTING
E-2.2	MAIN FLOOR PLAN-LIGHTING
E-2.3	MEZZANINE FLOOR PLAN-LIGHTING

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ECE ENGINEERING
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MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE		
A / ME-101		SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED
		SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN
A2		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			NEW AIR DUCT
					RECT. TO RECT. AIR DUCT TAKE-OFF
AH / 1		MECHANICAL EQUIPMENT DESIGNATION			RECT. TO RND. AIR DUCT TAKE-OFF
		EQUIPMENT ITEM DESIGNATION			RND. TO RND. AIR DUCT TAKE-OFF
D-1 / CFM		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RECT. TAKE-OFF AT END OF MAIN
					BURIED OR UNDER FLOOR DUCT
R-1		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE			FLEXIBLE AIR DUCT
					LINED DUCT
1		REVISION DESIGNATOR AND NUMBER			VANED ELBOW
1		KEY NOTE DESIGNATOR AND NUMBER			RADIUS ELBOW
	POC	POINT OF CONNECTION			CONCENTRIC DUCT TRANSITION
	POR	POINT OF REMOVAL			ECCENTRIC DUCT TRANSITION
AFF		ABOVE FINISHED FLOOR			FLEXIBLE AIR DUCT
AP		ACCESS PANEL	VD		VOLUME DAMPER
℄ EL.		CENTER LINE ELEVATION			SUPPLY AIR DIFFUSER
INV. ELEV.		INVERT ELEVATION			RETURN AIR, FRESH AIR, AND TRANSFER AIR
GC		GENERAL CONTRACTOR			CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE
MC		MECHANICAL CONTRACTOR			RETURN OR OUTSIDE AIR DUCT UP
CC		CONTROL CONTRACTOR			SUPPLY DUCT UP
EC		ELECTRICAL CONTRACTOR			EXHAUST AIR INTAKE UP
FPC		FIRE PROTECTION CONTROL			RETURN OR OUTSIDE AIR DUCT DOWN
NIC		NOT IN CONTRACT			SUPPLY DUCT DOWN
NTS		NOT TO SCALE			EXHAUST DUCT DOWN
VCP		VITRIFIED CLAY PIPE			ROUND DUCT UP
C		COMMON			COIL
NC		NORMALLY CLOSED		AP	ACCESS PANEL
NO		NORMALLY OPEN			EXISTING EQUIPMENT TO BE REMOVED
					EXISTING EQUIPMENT TO REMAIN
					NEW EQUIPMENT
			T	T-STAT	WALL MOUNTED THERMOSTAT
			S		WALL MOUNTED TEMP. SENSOR
			H	H-STAT	WALL MOUNTED HUMIDISTAT
			F	F-STAT	WALL MOUNTED FIRESTAT
			SA		SUPPLY AIR
			RA		RETURN AIR
			EA		EXHAUST AIR
			OA		OUTSIDE AIR
			MA		MIXED AIR
			FA		FRESH AIR
			RF		RELIEF AIR

GENERAL NOTES:

G-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

G-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

G-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

G-7 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

G-8 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

G-9 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

G-10 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

G-11 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

G-12 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-13 C.F.M. LISTED IS ACTUAL AIR.

G-14 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

G-15 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-16 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

G-17 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

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PROJECT NAME & ADDRESS

DRAPER HQ ENGERGY CONSERVATION UPGRADE UTAH NATIONAL GUARD

DFCM No. 07278480

12953 S. Minuteman Dr.
Draper, Utah 84020

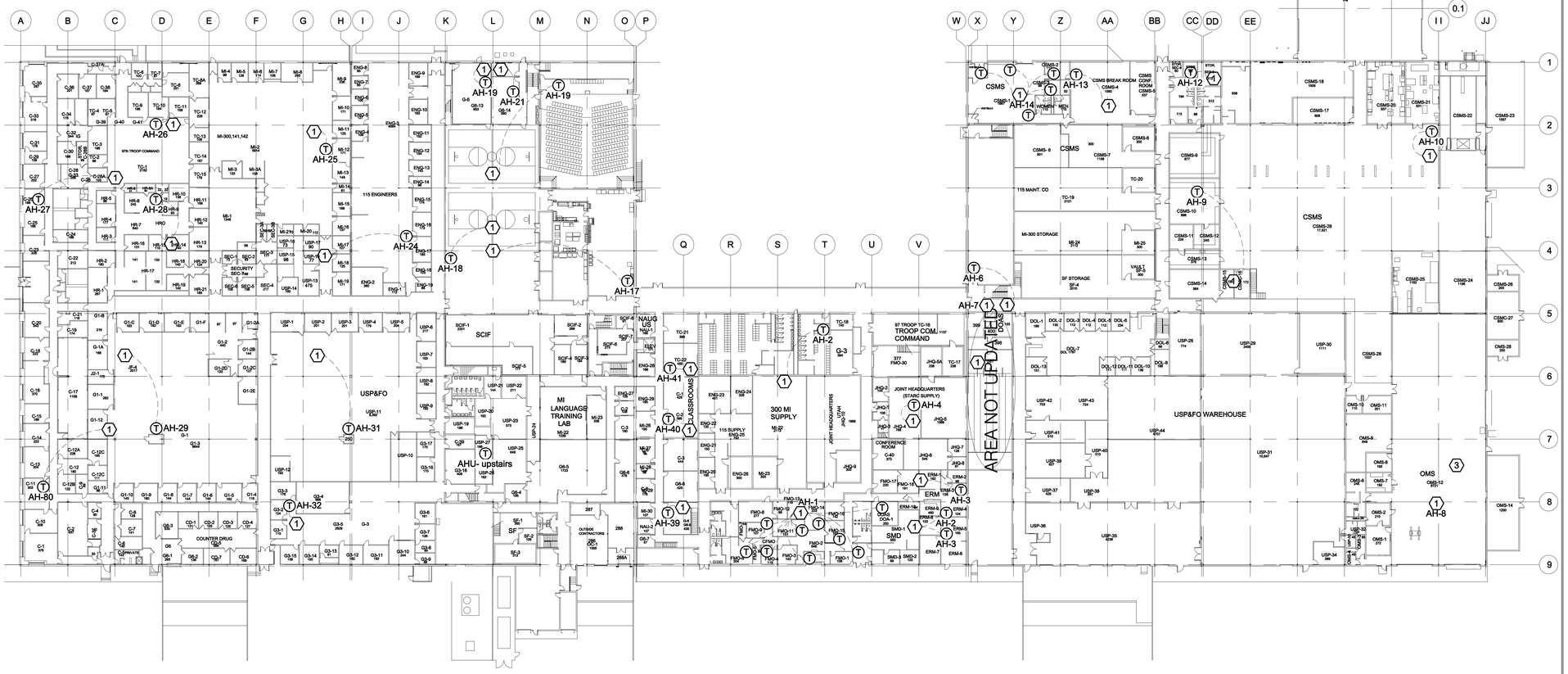
MARK	DATE	REVISION
100%	08/28	Construction Documents

PROJECT MANAGER: WMP
DRAWN BY: RGB
CHECKED BY: WMP
DATE: 08/28/07
WHW JOB NO.: 07046

PROFESSIONAL ENGINEER 08/28/07 WINWARD M. PACKER No. 375080 STATE OF UTAH

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M001
SHEET ? OF ?



MAIN FLOOR MECHANICAL PLAN

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

SHEET NOTES

1. COORDINATE WITH ATC TO PROVIDE NEW VARIABLE FREQUENCY DRIVE AT EXISTING AIR HANDLER, INCLUDING ALL ASSOCIATED ELECTRICAL CONNECTIONS, CONTROLS PROGRAMMING, SENSORS, GRAPHICS, ETC. SEE VFD SCHEDULE SHEET ME601.

GENERAL NOTES:

1. COORDINATE WITH ATC TO PROVIDE AND INSTALL OCCUPANCY SENSORS TO TURN OFF LIGHTS IN OFFICES WHEN UNOCCUPIED. SEE OCCUPANCY SENSOR SCHEDULE SHEET ME601.
2. COORDINATE WITH ATC TO PROVIDE LIGHTING CONTROLS IN HALLWAYS, WAREHOUSE AREAS, WORKSHOP AREAS, AND LARGE OFFICE AREAS. CONNECT TO BUILDING ENERGY MANAGEMENT SYSTEM AND PROGRAM TO TURN LIGHTS OFF AFTER REGULAR OPERATING HOURS. SEE LIGHTING CONTROLS SCHEDULE SHEET ME601.

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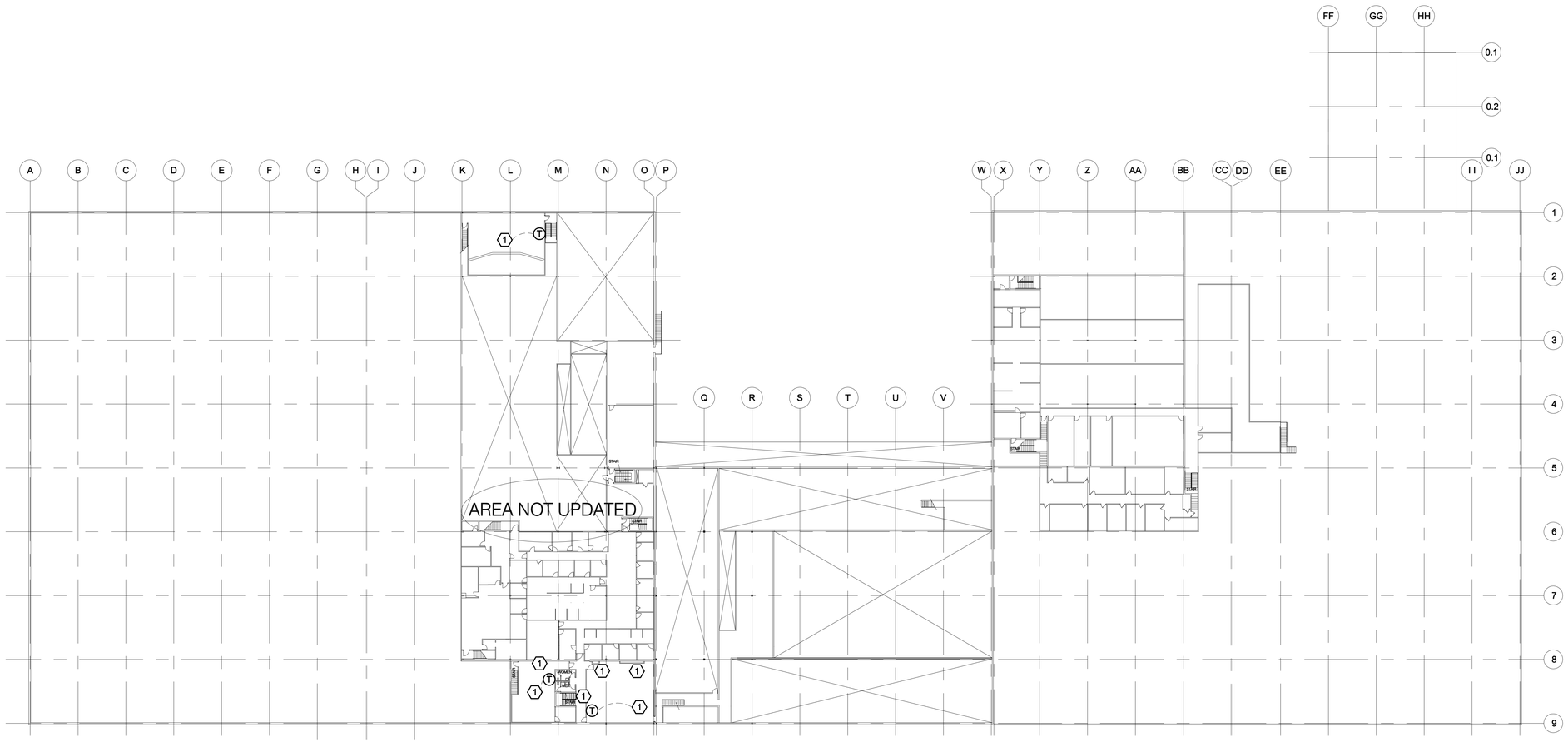
SHEET TITLE
MAIN FLOOR MECHANICAL PLAN

SHEET NO.
ME101
SHEET ? OF ?



MEZZANINE MECHANICAL PLAN

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

SHEET NOTES

1. COORDINATE WITH ATC TO PROVIDE NEW VARIABLE FREQUENCY DRIVE AT EXISTING AIR HANDLER, INCLUDING ALL ASSOCIATED ELECTRICAL CONNECTIONS, CONTROLS PROGRAMMING, SENSORS, GRAPHICS, ETC.

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SHEET TITLE
MEZZANINE MECHANICAL PLAN

SHEET NO.
ME102
SHEET ? OF ?

DRAPER UNG HQ OCCUPANCY SENSOR SCHEDULE CONTINUED

SEC-4	OFFICE	3	PIR SENSOR
SEC-5	OFFICE	2	PIR SENSOR
SEC-6	OFFICE	2	PIR SENSOR
ENG-1	OFFICE	2	PIR SENSOR
ENG-2	OFFICE	6	PIR SENSOR
ENG-4	OFFICE	2	PIR SENSOR
ENG-5	OFFICE	2	PIR SENSOR
ENG-6	OFFICE	2	PIR SENSOR
ENG-7	OFFICE	2	PIR SENSOR
ENG-8	OFFICE	2	PIR SENSOR
ENG-9	OFFICE	4	PIR SENSOR
ENG-10	OFFICE	2	PIR SENSOR
ENG-11	OFFICE	2	PIR SENSOR
ENG-12	OFFICE	2	PIR SENSOR
ENG-13	OFFICE	2	PIR SENSOR
ENG-14	OFFICE	2	PIR SENSOR
ENG-15	OFFICE	2	PIR SENSOR
ENG-16	OFFICE	2	PIR SENSOR
ENG-17	OFFICE	2	PIR SENSOR
ENG-18	OFFICE	2	PIR SENSOR
ENG-19	OFFICE	2	PIR SENSOR
ENG-20	OFFICE	4	PIR SENSOR
ENG-21	OFFICE	2	PIR SENSOR
ENG-22	OFFICE	2	PIR SENSOR
ENG-23	OFFICE	4	PIR SENSOR
ENG-24	OFFICE	4	PIR SENSOR
ENG-25	OFFICE	10	PIR SENSOR
ENG-26	OFFICE	4	PIR SENSOR
ENG-27	OFFICE	4	PIR SENSOR
ENG-28	OFFICE	4	PIR SENSOR
ENG-29	OFFICE	4	PIR SENSOR
G5-4	OFFICE	4	PIR SENSOR
G6-7	OFFICE	4	PIR SENSOR
G6-8	OFFICE	6	PIR SENSOR
G6-9	OFFICE	6	PIR SENSOR
G6-14	OFFICE	10	PIR SENSOR
SF-1	OFFICE	8	PIR SENSOR
SF-2	OFFICE	2	PIR SENSOR
SF-3	OFFICE	4	PIR SENSOR
C-2	OFFICE	4	PIR SENSOR
C-3	OFFICE	4	PIR SENSOR
NAU-1	OFFICE	4	PIR SENSOR
NAU-2	OFFICE	4	PIR SENSOR
C-1	OFFICE	6	PIR SENSOR
C-2	OFFICE	6	PIR SENSOR
C-3	OFFICE	6	PIR SENSOR
CFMO-1	OFFICE	2	PIR SENSOR
CFMO-2	OFFICE	10	PIR SENSOR
CFMO-3	OFFICE	4	PIR SENSOR
CFMO-4	OFFICE	2	PIR SENSOR
CFMO-5	OFFICE	2	PIR SENSOR
CFMO-6	OFFICE	4	PIR SENSOR
CFMO-7	OFFICE	2	PIR SENSOR
CFMO-8	OFFICE	2	PIR SENSOR
CFMO-9	OFFICE	4	PIR SENSOR
CFMO-10	OFFICE	1	PIR SENSOR
CFMO-11	OFFICE	4	PIR SENSOR
CFMO-12	OFFICE	4	PIR SENSOR
CFMO-13	OFFICE	4	PIR SENSOR
CFMO-14	OFFICE	4	PIR SENSOR
CFMO-15	OFFICE	4	PIR SENSOR
CFMO-16	OFFICE	4	PIR SENSOR
CFMO-17	OFFICE	5	PIR SENSOR
CFMO	OFFICE	2	PIR SENSOR
SMD-1	OFFICE	10	PIR SENSOR
SMD-2	OFFICE	2	PIR SENSOR
SMD-3	OFFICE	2	PIR SENSOR
ERM-1	OFFICE	2	PIR SENSOR
ERM-2	OFFICE	1	PIR SENSOR
ERM-3	OFFICE	2	PIR SENSOR
ERM-4	OFFICE	2	PIR SENSOR
ERM-5	OFFICE	4	PIR SENSOR
ERM-6	OFFICE	3	PIR SENSOR
ERM-7	OFFICE	4	PIR SENSOR
ERM-8	OFFICE	2	PIR SENSOR
ERM-9	OFFICE	5	PIR SENSOR
CONFERENCE ROOM	OFFICE	6	PIR SENSOR
JFHQ-2	OFFICE	4	PIR SENSOR
JFHQ-3	OFFICE	4	PIR SENSOR
JFHQ-4	OFFICE	4	PIR SENSOR
JFHQ-5	OFFICE	2	PIR SENSOR
JFHQ-6	OFFICE	4	PIR SENSOR
JFHQ-7	OFFICE	6	PIR SENSOR
JFHQ-8	OFFICE	6	PIR SENSOR
JFHQ-9	OFFICE	3	PIR SENSOR
JFHQ-10	OFFICE	2	PIR SENSOR
JFHQ-11	OFFICE	2	PIR SENSOR
JFHQ-12A	OFFICE	2	PIR SENSOR
JFHQ-12B	OFFICE	2	PIR SENSOR
JFHQ-12C	OFFICE	4	PIR SENSOR
JFHQ-12D	OFFICE	2	PIR SENSOR
JFHQ-13A	OFFICE	4	PIR SENSOR
JFHQ-13B	OFFICE	2	PIR SENSOR
JFHQ-13C	OFFICE	2	PIR SENSOR
JFHQ-M	OFFICE	5	PIR SENSOR
JFHQ-W	OFFICE	5	PIR SENSOR
DOL-1	OFFICE	3	PIR SENSOR
DOL-2	OFFICE	2	PIR SENSOR
DOL-3	OFFICE	2	PIR SENSOR
DOL-4	OFFICE	2	PIR SENSOR
DOL-5	OFFICE	2	PIR SENSOR
DOL-6	OFFICE	2	PIR SENSOR
DOL-8	OFFICE	1	PIR SENSOR
DOL-9	OFFICE	3	PIR SENSOR
DOL-10	OFFICE	2	PIR SENSOR
DOL-11	OFFICE	2	PIR SENSOR
DOL-12	OFFICE	2	PIR SENSOR
DOL-13	OFFICE	2	PIR SENSOR
OMS-1	OFFICE	4	PIR SENSOR
OMS-2	OFFICE	4	PIR SENSOR
OMS-3	OFFICE	4	PIR SENSOR
OMS-4	OFFICE	4	PIR SENSOR
OMS-5	OFFICE	4	PIR SENSOR
OMS-6	OFFICE	4	PIR SENSOR
OMS-7	OFFICE	2	PIR SENSOR
OMS-8	OFFICE	4	PIR SENSOR
OMS-9	OFFICE	11	PIR SENSOR
CSMS-2	OFFICE	2	PIR SENSOR
CSMS-3	SHOP AREA	2	PIR SENSOR
CSMS-4	SHOP AREA	10	PIR SENSOR
CSMS-5	SHOP AREA	15	PIR SENSOR
CSMS-6	SHOP AREA	2	PIR SENSOR
CSMS-7	SHOP AREA	8	PIR SENSOR
CSMS-8	SHOP AREA	6	PIR SENSOR
CSMS-9	SHOP AREA	12	PIR SENSOR
CSMS-10	SHOP AREA	13	PIR SENSOR
CSMS-11	SHOP AREA	4	PIR SENSOR
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CSMS-18	SHOP AREA	12	PIR SENSOR
CSMS-20	SHOP AREA	12	PIR SENSOR
CSMS-21	SHOP AREA	18	PIR SENSOR
CSMS-22	SHOP AREA	6	INTEGRAL OCS
CSMS-23	SHOP AREA	6	PIR SENSOR
CSMS-24	SHOP AREA	36	PIR SENSOR
CSMS-24	SHOP AREA	4	INTEGRAL OCS
CSMS-25	SHOP AREA	16	PIR SENSOR
CSMS-26	SHOP AREA	36	PIR SENSOR
CSMS-28	SHOP AREA	24	INTEGRAL OCS
CSMS-29	SHOP AREA	16	INTEGRAL OCS
MENS SHOWERS-331	RESTROOMS	36	ULTRA SONIC SENSOR
WOMENS SHOWERS-332	RESTROOMS	12	ULTRA SONIC SENSOR
ENTRANCE LOBBY-113	RESTROOMS	5	ULTRA SONIC SENSOR
ENTRANCE WOMEN-115	RESTROOMS	4	ULTRA SONIC SENSOR
ENTRANCE MEN-114	RESTROOMS	4	ULTRA SONIC SENSOR
ENTRANCE MEN-120	RESTROOMS	4	ULTRA SONIC SENSOR
ENTRANCE WOMEN-121	RESTROOMS	4	ULTRA SONIC SENSOR
CFMO MENS-347	RESTROOMS	2	ULTRA SONIC SENSOR
CFMO WOMENS-348	RESTROOMS	2	ULTRA SONIC SENSOR
G6-16	OFFICE	15	PIR SENSOR
G6-17	OFFICE	3	PIR SENSOR
G6-18	OFFICE	3	PIR SENSOR
G6-19	OFFICE	6	PIR SENSOR
G6-20	OFFICE	2	PIR SENSOR
G6-21	OFFICE	4	PIR SENSOR
G6-22	OFFICE	4	PIR SENSOR
SF-1	OFFICE	4	PIR SENSOR
SF-2	OFFICE	4	PIR SENSOR
SF-3	OFFICE	4	PIR SENSOR
SF-4	OFFICE	4	PIR SENSOR
SF-5	OFFICE	4	PIR SENSOR
SF-6	OFFICE	4	PIR SENSOR
SF-7	OFFICE	4	PIR SENSOR
SF-8	OFFICE	4	PIR SENSOR
SF-9	OFFICE	4	PIR SENSOR
SF-10	OFFICE	4	PIR SENSOR
SF-11	OFFICE	4	PIR SENSOR
SF-12	OFFICE	4	PIR SENSOR
SF-13	OFFICE	4	PIR SENSOR
SF-14	OFFICE	4	PIR SENSOR
SF-15	OFFICE	4	PIR SENSOR
SF-16	OFFICE	4	PIR SENSOR
SF-17	OFFICE	4	PIR SENSOR
SF-18	OFFICE	4	PIR SENSOR
SF-19	OFFICE	4	PIR SENSOR
SF-20	OFFICE	4	PIR SENSOR
SF-21	OFFICE	4	PIR SENSOR
SF-22	OFFICE	4	PIR SENSOR
SF-23	OFFICE	4	PIR SENSOR
SF-24	OFFICE	3	PIR SENSOR
SF-25	OFFICE	9	PIR SENSOR

DRAPER UNG HQ OCCUPANCY SENSOR SCHEDULE

Room #	Area Type	Qty	Control
C-1	OFFICE	5	PIR SENSOR
C-2	OFFICE	8	PIR SENSOR
C-3	OFFICE	2	PIR SENSOR
C-4	OFFICE	2	PIR SENSOR
C-5	OFFICE	2	PIR SENSOR
C-6	OFFICE	4	PIR SENSOR
C-7	OFFICE	4	PIR SENSOR
C-8	OFFICE	2	PIR SENSOR
C-9	OFFICE	4	PIR SENSOR
C-10	OFFICE	6	PIR SENSOR
C-11	OFFICE	4	PIR SENSOR
C-12	OFFICE	4	PIR SENSOR
C-12A	OFFICE	4	PIR SENSOR
C-12B	OFFICE	4	PIR SENSOR
C-12C	OFFICE	4	PIR SENSOR
C-13	OFFICE	4	PIR SENSOR
C-14	OFFICE	4	PIR SENSOR
C-15	OFFICE	4	PIR SENSOR
C-16	OFFICE	8	PIR SENSOR
C-17	OFFICE	4	PIR SENSOR
C-18	OFFICE	3	PIR SENSOR
C-19	OFFICE	4	PIR SENSOR
C-20	OFFICE	4	PIR SENSOR
C-21	OFFICE	4	PIR SENSOR
C-22	OFFICE	4	PIR SENSOR
C-23	OFFICE	4	PIR SENSOR
C-24	OFFICE	4	PIR SENSOR
C-25	OFFICE	4	PIR SENSOR
C-26	OFFICE	4	PIR SENSOR
C-27	OFFICE	4	PIR SENSOR
C-28	OFFICE	4	PIR SENSOR
C-29	OFFICE	2	PIR SENSOR
C-30	OFFICE	2	PIR SENSOR
C-31	OFFICE	4	PIR SENSOR
C-32	OFFICE	6	PIR SENSOR
C-33	OFFICE	6	PIR SENSOR
C-34	OFFICE	2	PIR SENSOR
C-35	OFFICE	6	PIR SENSOR
C-36	OFFICE	3	PIR SENSOR
C-37	OFFICE	2	PIR SENSOR
C-38	OFFICE	2	PIR SENSOR
TC-2	OFFICE	2	PIR SENSOR
TC-3	OFFICE	9	PIR SENSOR
TC-4	OFFICE	4	PIR SENSOR
TC-5	OFFICE	4	PIR SENSOR
TC-6	OFFICE	4	PIR SENSOR
TC-7	OFFICE	4	PIR SENSOR
TC-8	OFFICE	4	PIR SENSOR
TC-8A	OFFICE	4	PIR SENSOR
TC-9	OFFICE	4	PIR SENSOR
TC-10	OFFICE	4	PIR SENSOR
TC-11	OFFICE	4	PIR SENSOR
TC-12	OFFICE	4	PIR SENSOR
TC-13	OFFICE	4	PIR SENSOR
TC-14	OFFICE	4	PIR SENSOR
TC-15	OFFICE	4	PIR SENSOR
TC-16	OFFICE	4	PIR SENSOR
TC-17	OFFICE	4	PIR SENSOR
TC-18	OFFICE	4	PIR SENSOR
TC-19	OFFICE	4	PIR SENSOR
TC-20	OFFICE	4	PIR SENSOR
TC-21	OFFICE	6	PIR SENSOR
TC-22	OFFICE	6	PIR SENSOR
TC-23	OFFICE	6	PIR SENSOR
HR-1	OFFICE	6	PIR SENSOR
HR-2	OFFICE	2	PIR SENSOR
HR-3	OFFICE	2	PIR SENSOR
HR-4	OFFICE	4	PIR SENSOR
HR-5	OFFICE	2	PIR SENSOR
HR-8	OFFICE	4	PIR SENSOR
HR-9	OFFICE	2	PIR SENSOR
HR-10	OFFICE	4	PIR SENSOR
HR-11	OFFICE	4	PIR SENSOR
HR-12	OFFICE	4	PIR SENSOR
HR-13	OFFICE	4	PIR SENSOR
HR-14	OFFICE	4	PIR SENSOR
HR-15	OFFICE	4	PIR SENSOR
HR-16	OFFICE	4	PIR SENSOR
HR-18	OFFICE	3	PIR SENSOR
HR-19	OFFICE	3	PIR SENSOR
HR-20	OFFICE	3	PIR SENSOR
HR-21	OFFICE	3	PIR SENSOR
JF-1	OFFICE	4	PIR SENSOR
JF-2	OFFICE	4	PIR SENSOR
JF-3	OFFICE	4	PIR SENSOR
JF-4	OFFICE	4	PIR SENSOR
JF-5	OFFICE	6	PIR SENSOR
JF-6	OFFICE	2	PIR SENSOR
ROOM 184	OFFICE	2	PIR SENSOR
ROOM 185	OFFICE	2	PIR SENSOR
ROOM 186	OFFICE	4	PIR SENSOR
G1-2	OFFICE	4	PIR SENSOR
G1-2A	OFFICE	4	PIR SENSOR
G1-2B	OFFICE	4	PIR SENSOR
G1-2C	OFFICE	4	PIR SENSOR
G1-2D	OFFICE	4	PIR SENSOR
G1-4	OFFICE	4	PIR SENSOR
G1-5	OFFICE	4	PIR SENSOR
G1-6	OFFICE	4	PIR SENSOR
G1-7	OFFICE	4	PIR SENSOR
G1-7A	OFFICE	4	PIR SENSOR
G1-8	OFFICE	4	PIR SENSOR
G1-9	OFFICE	4	PIR SENSOR
G1-10	OFFICE	4	PIR SENSOR
G1-11	OFFICE	4	PIR SENSOR
G6-1	OFFICE	4	PIR SENSOR
G6-2	OFFICE	4	PIR SENSOR
G6-3	OFFICE	4	PIR SENSOR
CD-1	OFFICE	2	PIR SENSOR
CD-2	OFFICE	2	PIR SENSOR
CD-3	OFFICE	2	PIR SENSOR
CD-4	OFFICE	2	PIR SENSOR
CD-5	OFFICE	8	PIR SENSOR
CD-6	OFFICE	2	PIR SENSOR
G3-1	OFFICE	2	PIR SENSOR
G3-2	OFFICE	2	PIR SENSOR
G3-3	OFFICE	2	PIR SENSOR
G3-6	OFFICE	4	PIR SENSOR
G3-7	OFFICE	2	PIR SENSOR
G3-8	OFFICE	2	PIR SENSOR
G3-9	OFFICE	2	PIR SENSOR
G3-10	OFFICE	4	PIR SENSOR
G3-11	OFFICE	4	PIR SENSOR
G3-12	OFFICE	4	PIR SENSOR
G3-13	OFFICE	3	PIR SENSOR
G3-14	OFFICE	4	PIR SENSOR
G3-15	OFFICE	3	PIR SENSOR
G3-16	OFFICE	4	PIR SENSOR
G3-17	OFFICE	4	PIR SENSOR
G3-18	OFFICE	6	PIR SENSOR
USP-1	OFFICE	2	PIR SENSOR
USP-2	OFFICE	2	PIR SENSOR
USP-3	OFFICE	2	PIR SENSOR
USP-4	OFFICE	2	PIR SENSOR
USP-5	OFFICE	2	PIR SENSOR
USP-6	OFFICE	2	PIR SENSOR
USP-7	OFFICE	2	PIR SENSOR
USP-8	OFFICE	2	PIR SENSOR
USP-9	OFFICE	2	PIR SENSOR
USP-10	OFFICE	2	PIR SENSOR
USP-11	OFFICE	2	PIR SENSOR
USP-12	OFFICE	2	PIR SENSOR
USP-13	OFFICE	2	PIR SENSOR
USP-14	OFFICE	2	PIR SENSOR
USP-15	OFFICE	2	PIR SENSOR
USP-16	OFFICE	2	PIR SENSOR
USP-17	OFFICE	2	PIR SENSOR
USP-18	OFFICE	2	PIR SENSOR
USP-19	OFFICE	4	PIR SENSOR
USP-20	OFFICE	2	PIR SENSOR
USP-21	OFFICE	2	PIR SENSOR
USP-22	OFFICE	4	PIR SENSOR
USP-23	OFFICE	6	PIR SENSOR
USP-24	OFFICE	6	PIR SENSOR
USP-25	OFFICE	8	PIR SENSOR
USP-26	OFFICE	2	PIR SENSOR
USP-27	OFFICE	2	PIR SENSOR
USP&FO WAREHOUSE-32	OFFICE	2	PIR SENSOR
USP&FO WAREHOUSE-33	OFFICE	2	PIR SENSOR
USP&FO WAREHOUSE-34	OFFICE	5	PIR SENSOR
USP&FO WAREHOUSE-37-38	OFFICE	8	PIR SENSOR
USP&FO WAREHOUSE-40	OFFICE	4	PIR SENSOR
USP&FO WAREHOUSE-41	OFFICE	10	PIR SENSOR
MI-3	OFFICE	2	PIR SENSOR
MI-4	OFFICE	2	PIR SENSOR
MI-5	OFFICE	2	PIR SENSOR
MI-6	OFFICE	2	PIR SENSOR
MI-7	OFFICE	2	PIR SENSOR
MI-8	OFFICE	2	PIR SENSOR
MI-9	OFFICE	2	PIR SENSOR
MI-10	OFFICE	2	PIR SENSOR
MI-11	OFFICE	2	PIR SENSOR
MI-12	OFFICE	2	PIR SENSOR
MI-13	OFFICE	2	PIR SENSOR
MI-14	OFFICE	2	PIR SENSOR
MI-15	OFFICE	2	PIR SENSOR
MI-16	OFFICE	2	PIR SENSOR
MI-17	OFFICE	2	PIR SENSOR
MI-18	OFFICE	2	PIR SENSOR
MI-19	OFFICE	4	PIR SENSOR
MI-20	OFFICE	2	PIR SENSOR
MI 21	OFFICE	2	PIR SENSOR
MI 22	OFFICE	2	PIR SENSOR
MI 23	OFFICE	2	PIR SENSOR
MI 24	OFFICE	2	PIR SENSOR
M 25	OFFICE	2	PIR SENSOR
MI 26	OFFICE	4	PIR SENSOR
MI 27	OFFICE	4	PIR SENSOR
MI 28	OFFICE	4	PIR SENSOR
MI 29	OFFICE	12	PIR SENSOR
MI 30	OFFICE	4	PIR SENSOR
SEC-1	OFFICE	2	PIR SENSOR
SEC-2	OFFICE	2	PIR SENSOR
SEC-3	OFFICE	4	PIR SENSOR
SEC-3A	OFFICE	2	PIR SENSOR
SEC-3B	OFFICE	2	PIR SENSOR
SEC-3C	OFFICE	2	PIR SENSOR

DRAPER UNG LIGHTING CONTROLS SCHEDULE

Room #	Area Type	Qty	Control
C-7	OFFICE AREA	16	BAS SCHEDULE 2
TC-1	OFFICE AREA	33	BAS SCHEDULE 2
HR-7	OFFICE AREA	11	BAS SCHEDULE 2
HR-17	OFFICE AREA	15	BAS SCHEDULE 2
G1-3	OFFICE AREA	123	BAS SCHEDULE 2
G3-4	OFFICE AREA	12	BAS SCHEDULE 2
G3-5	OFFICE AREA	41	BAS SCHEDULE 2
USP-11	OFFICE AREA	107	BAS SCHEDULE 2
MI-1	OFFICE AREA	15	BAS SCHEDULE 2
MI-2	OFFICE AREA	85	BAS SCHEDULE 2
ENG-3	OFFICE AREA	65	BAS SCHEDULE 2
G6-5	OFFICE AREA	23	BAS SCHEDULE 2
G6-6	OFFICE AREA	12	BAS SCHEDULE 2
G6-13	OFFICE AREA	12	BAS SCHEDULE 2
DOL-7	OFFICE AREA	33	BAS SCHEDULE 2
OMS-12	OFFICE AREA	144	BAS SCHEDULE 2
CSMS-1	OFFICE AREA	30	BAS SCHEDULE 2
CSMS-19	SHOP AREA	16	BAS SCHEDULE 3
CSMS-28	SHOP AREA	60	BAS SCHEDULE 3
SPORTS COURT-328	OFFICE AREA	16	BAS SCHEDULE 2
HERRITAGE HALL	HALLWAY	21	BAS SCHEDULE 1
FIFTIES HALL	HALLWAY	11	BAS SCHEDULE 1
USP-G HALL	HALLWAY	41	BAS SCHEDULE 1
COURTYARD HALL	HALLWAY	12	BAS SCHEDULE 1
CSMS HALL	HALLWAY	13	BAS SCHEDULE 1
DOL HALL	HALLWAY	11	BAS SCHEDULE 1
USP & WAREHOUSE HALL	HALLWAY	15	BAS SCHEDULE 1
CFMO HALL	HALLWAY	18	BAS SCHEDULE 1
CLASSROOMS HALL	HALLWAY	10	BAS SCHEDULE 1
SF-7	WAREHOUSE	15	BAS SCHEDULE 4
SF-8	WAREHOUSE	15	BAS SCHEDULE 4
C-41	WAREHOUSE	15	BAS SCHEDULE 4
G6-23	WAREHOUSE	15	BAS SCHEDULE 4
UNION	WAREHOUSE	15	BAS SCHEDULE 4
CSMS MEZZ	WAREHOUSE	15	BAS SCHEDULE 4
SF-MAIN	OFFICE AREA	33	BAS SCHEDULE 2

NOTES:
BAS SCHEDULE 1: 5:00 AM TO 7:00 PM (ADJ.)
BAS SCHEDULE 2: 7:00 AM TO 5:30 PM (ADJ.)
BAS SCHEDULE 3: 6:00 AM TO 4:00 PM (ADJ.)
BAS SCHEDULE 4: 7:00 AM TO 5:00 PM (ADJ.)

VARIABLE FREQUENCY DRIVE SCHEDULE

SYMBOL	AIR HANDLER	AREA	C.F.M.	HP
VFD-1	1	DEH	9000	7.5
VFD-2	2	ENVIRONMENTAL	4300	2
VFD-3	3	COA 141ST	4300	5
VFD-4	4	STARC SUPPLY	5700	2
VFD-6	6	PT ROOM	5900	3
VFD-7	7	115 HERM	5900	3
VFD-9	9	SMALL ARMS	5900	3
VFD-10	12	PRISONER BREAK ROOM	2400	2
VFD-13	13	CSMS BREAK ROOM	5900	3
VFD-14	14	CSMS OFFICES	5900	3
VFD-15	15	SF OFFICES	9500	7.5
VFD-17	17	DINING AREA	4700	3
VFD-19	19	AUDITORIUM	14800	5
VFD-23	23	DOIM	8300	3
VFD-24	24	300 MI SOUTH	16500	7.5
VFD-25	25	300 MI NORTH	16500	7.5
VFD-26	26	TROOP COMMAND	16500	7.5
VFD-27	27	DOL SAFETY OFFICE	14800	7.5
VFD-28	28	HRO	16500	7.5
VFD-29	29	G-1	16500	7.5
VFD-30	30	DPCA	16500	7.5
VFD-31	31	USPFO	16500	7.5
VFD-32	32	DPT	16500	7.5
VFD-33	33	ASICS	4700	3
VFD-34	34	ADP	5700	3
VFD-35	35	SPEECH LAB	2400	2
VFD-36	36	COMPUTER TRAINING	4700	2
VFD-37	37	SF CLASSROOMS	5700	2
VFD-38	38	TRISA G-6	5700	2
VFD-39	39	CLASSROOM 205	8900	5
VFD-40	40	CLASSROOM 202	4700	3
VFD-41	41	PAD AUDIO	4700	3

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EMAIL: excellence@whw-engineering.com

PROJECT NAME & ADDRESS

DRAPER HQ ENGERGY CONSERVATION UPGRADE UTAH NATIONAL GUARD

DFCM No. 07278480

12953 S. Minuteman Dr.
Draper, Utah 84020

MARK	DATE	REVISION
100%	08/28	Construction Documents

PROJECT MANAGER: WMP
DRAWN BY: RGB
CHECKED BY: WMP
DATE: 08/28/07
WHW JOB NO.: 07046

PROFESSIONAL ENGINEER 08/28/07 WINWARD M. PACKER No. 375080 STATE OF UTAH

SHEET TITLE
MECHANICAL SCHEDULES

SHEET NO.
ME601
SHEET ? OF ?

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	2'X4' PENDANT MOUNTED FLUORESCENT HI BAY LIGHT FIXTURE WITH WIREGUARD.	6-54W T5HO	COLUMBIA LIGHTING	LHR4-654-LSST-24 EPU-LHHB-GLH5-LHRNG6
			METALUX	2HB-654T5UNV-EBT2-U-SNG/2HB-4FT-B
T-2	2'x4' PENDANT MOUNTED FLUORESCENT HI BAY LIGHT FIXTURE.	6-54W T5HO	COLUMBIA LIGHTING	LHR4-654-LSST-24 EPU-LHHB-GLH5
			METALUX	2HB-654T5UNV-EBT2-U
T-3	2'x4' PENDANT MOUNTED FLUORESCENT HIGH BAY LIGHT FIXTURE. SAME AS T-1 EXCEPT 2 LAMPS.	2-54W T5HO	COLUMBIA	LHR4-254-LSST-EPU-LLH5-LHRNG
			METALUX	HB-254T5UNV-EBTI-U-SNG/HB-4FT-B
T-4	SAME AS T-3 EXCEPT WITH NO WIRE GUARD.	2-54W T5HO	COLUMBIA	LHR4-254-LSST-EPU-LLH5
			METALUX	HB-254T5UNV-EBTI-U
EX-1	LED EXIT SIGN WITH EMERGENCY BATTERY PACK UNIT AND DIE CAST HOUSING.	INCLUDED	DUAL-LITE	CVDIGEH
			SURELITES	CX1110-GW

NOTES:

1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10%, TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND SYLVANIA 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.

LIGHTING SYSTEM SYMBOL LIST

SYMBOL	DESCRIPTION
	SURFACE MOUNTED FLUORESCENT FIXTURE
	SURFACE MOUNTED FIXTURE
	EXIT LIGHT. ARROWS SHOW EXIT DIRECTION
	PENDANT MOUNTED FIXTURE
$	SINGLE POLE TOGGLE SWITCH - 20 AMP
$a,b	SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT
$3	THREE WAY TOGGLE SWITCH - 20 AMP
T-X X	LIGHTING FIXTURE CALLOUT. NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED
X X	REFERENCE NOTE CALLOUT

GENERAL NOTES:

1. ALL MATERIALS TO BE REMOVED AND RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL PATCH THE WALLS AND CEILINGS WHERE THE DEVICES ARE REMOVED TO MATCH THE EXISTING WALLS AND CEILINGS. COORDINATE WITH GENERAL CONTRACTOR.
3. MINIMUM SIZE OF CONDUIT TO BE 3/4". ALUMINUM CONDUITS SHALL NOT BE USED.
4. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
5. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
6. NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A CONDUIT. EACH CIRCUIT SHALL CONSIST OF 1 CONDUCTOR FOR EACH PHASE, 1 NEUTRAL, AND 1 GROUND, FOR A TOTAL OF FIVE CONDUCTORS.
7. THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THWN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
8. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
9. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX AND MC CABLE NOT PERMITTED).
10. FLEXIBLE CONDUITS CAN ONLY BE USED FOR SHORT RUNS (6' MAXIMUM).
11. NO CONDUITS SHALL RUN IN DUCT WORK.
12. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL 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 THE GUARANTEED PERIOD.

SPECIAL NOTES:

1. CONTRACTOR IS TO PROVIDE A UNIT COST FOR INSTALLING A NEW EXIT SIGN TO REPLACE EXISTING AS NEEDED. THIS COST SHALL INCLUDE COST OF NEW EXIT SIGN AND LABOR TO REMOVE AND INSTALL A NEW ONE.

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PROJECT NAME & ADDRESS

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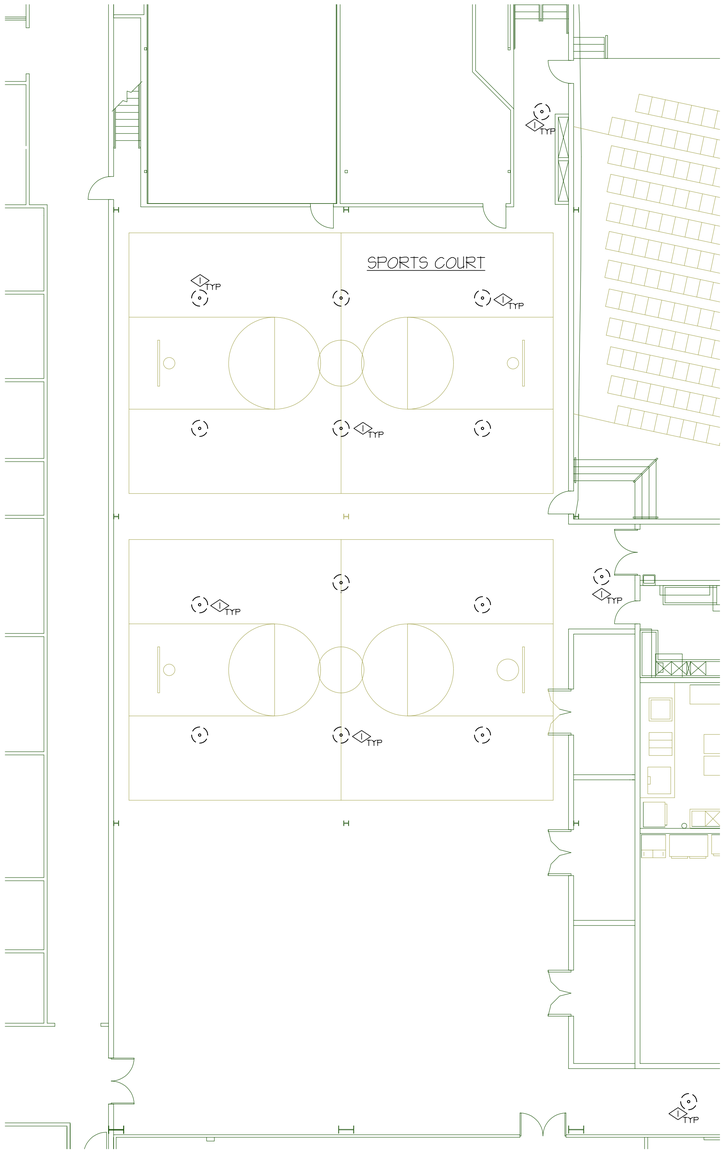
MARK	DATE	REVISION
100%	08/28	CONSTRUCTION DOCUMENTS

PROJECT MANAGER: AM
DRAWN BY: PB
CHECKED BY: AM
DATE: 08/22/07
ECE JOB NO.: 3489

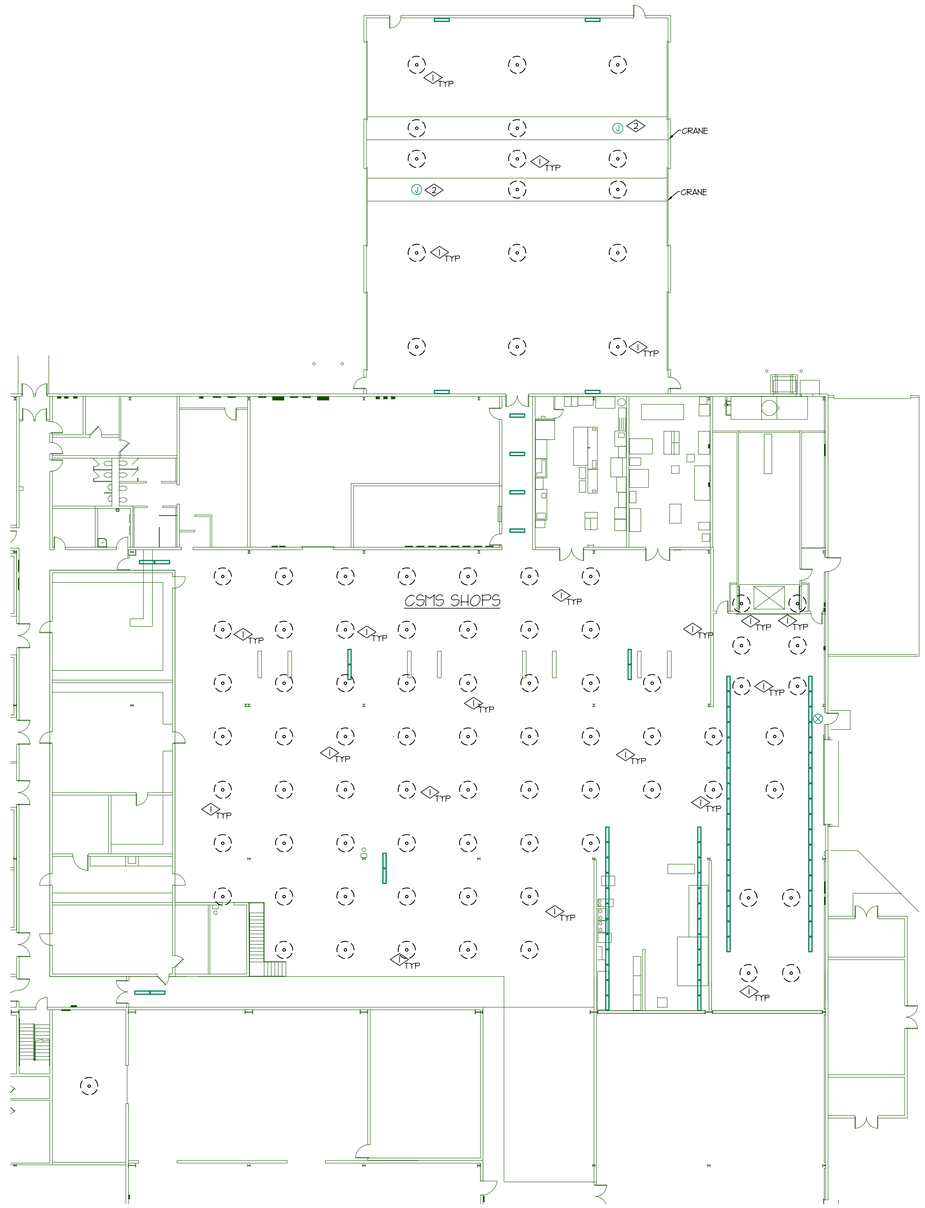
LICENSED PROFESSIONAL ENGINEER
AKBAR MATINKHAH
#172577
STATE OF UTAH

SHEET TITLE
GENERAL NOTES, DETAILS & SCHEDULES

SHEET NO.
E-0.1
SHEET OF



N PARTIAL DEMOLITION FLOOR PLAN – LIGHTING
SCALE: 1/8" = 1'-0"



N PARTIAL DEMOLITION FLOOR PLAN – LIGHTING
SCALE: 1/16" = 1'-0"

SHEET NOTES

REFERENCE NOTES:

1. REMOVE EXISTING PENDANT MOUNTED 400WATT HID LIGHT FIXTURES AND REPLACE WITH NEW PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE. EXTEND EXISTING LIGHTING CIRCUIT TO NEW LIGHT FIXTURES. CONTRACTOR IS TO SALVAGE AND REMOVE EXISTING LIGHT FIXTURES FROM THE SITE.
2. UTILIZE EXISTING J-BOXES TO PROVIDE POWER TO NEW LIGHT FIXTURE.

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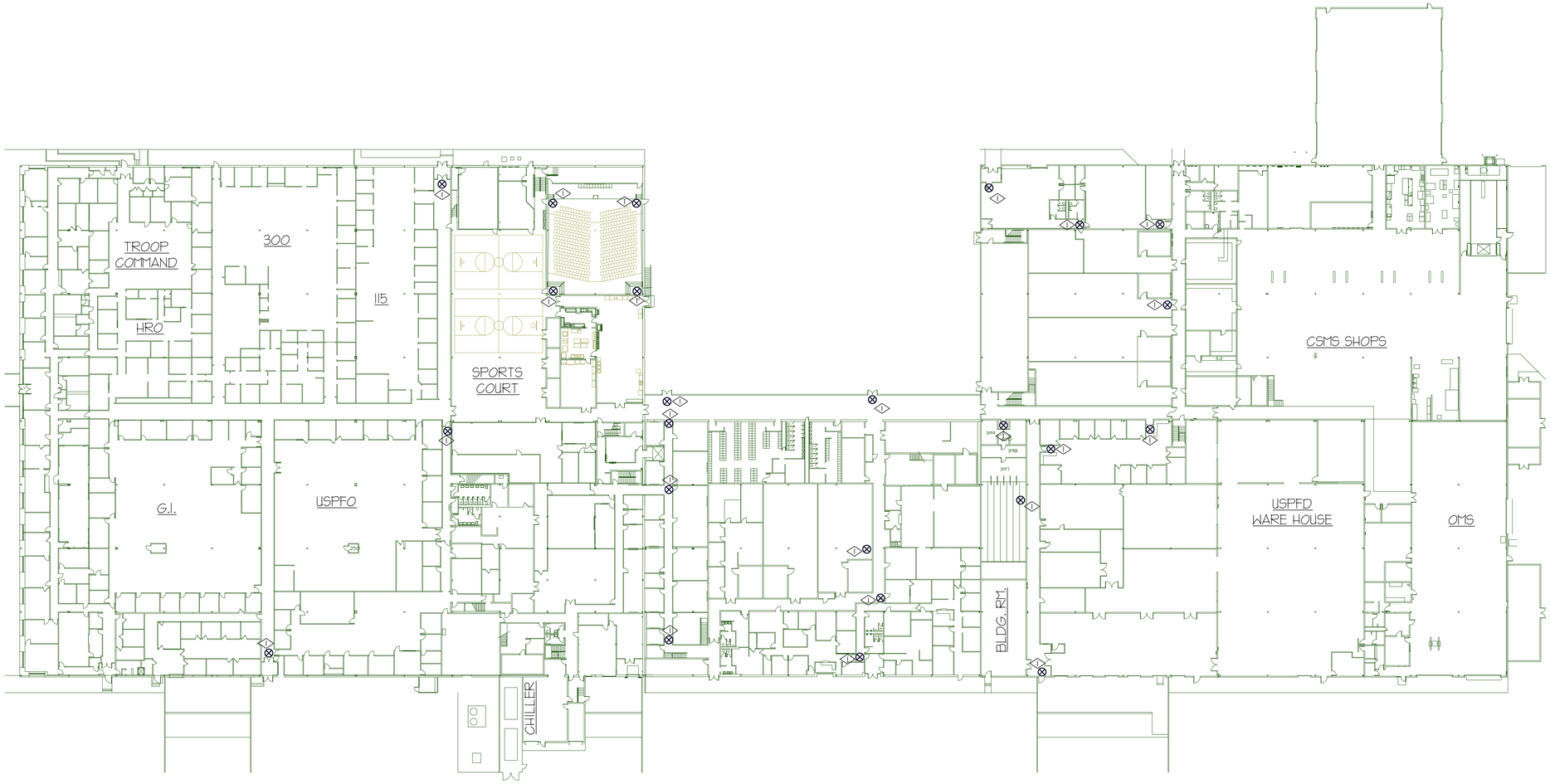
LICENSED PROFESSIONAL ENGINEER
AKBAR MATINKHAH
#172577
STATE OF UTAH

SHEET TITLE
MAIN FLOOR PLAN - DEMOLITION

SHEET NO. E-2.0
SHEET OF



N

MAIN FLOOR PLAN – LIGHTING

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

SHEET NOTES

REFERENCE NOTES:

1. REPLACE EXISTING INCANDESCENT AND FLUORESCENT EXIT SIGNS WITH A NEW LED EXIT SIGN. EXTEND EXISTING CIRCUIT TO NEW EXIT SIGN FOR A COMPLETE INSTALLATION. CONTRACTOR IS TO SALVAGE AND REMOVE ALL EXISTING EXIT SIGNS FROM THE SITE. REFER TO FIXTURE SCHEDULE FOR MORE INFORMATION. ALL UNUSED CONDUCTORS AND CONDUIT MUST BE REMOVED.

State of Utah
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PROJECT NAME & ADDRESS

DRAPER HQ ENGERGY CONSERVATION UPGRADE UTAH NATIONAL GUARD

DFCM No. 07278480

12953 S. Minuteman Dr.
Draper, Utah 84020

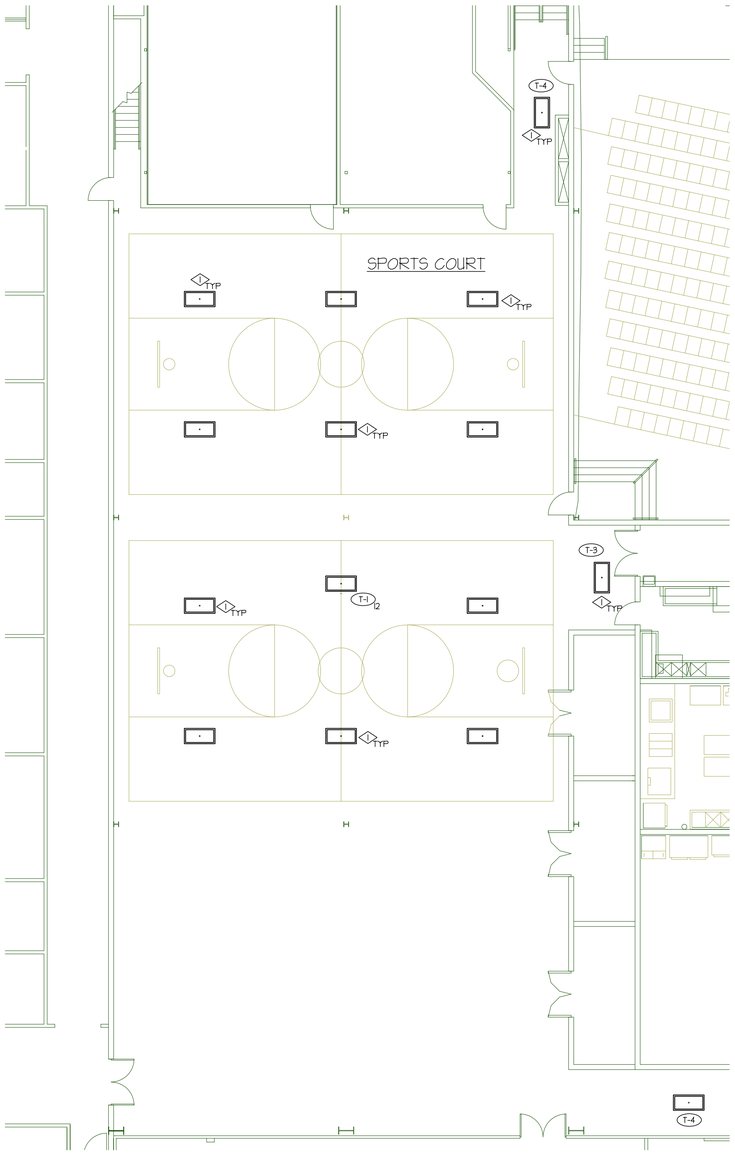
MARK	DATE	REVISION
100%	08/28	CONSTRUCTION DOCUMENTS

PROJECT MANAGER: AM
DRAWN BY: PB
CHECKED BY: AM
DATE: 08/22/07
ECE JOB NO.: 3489

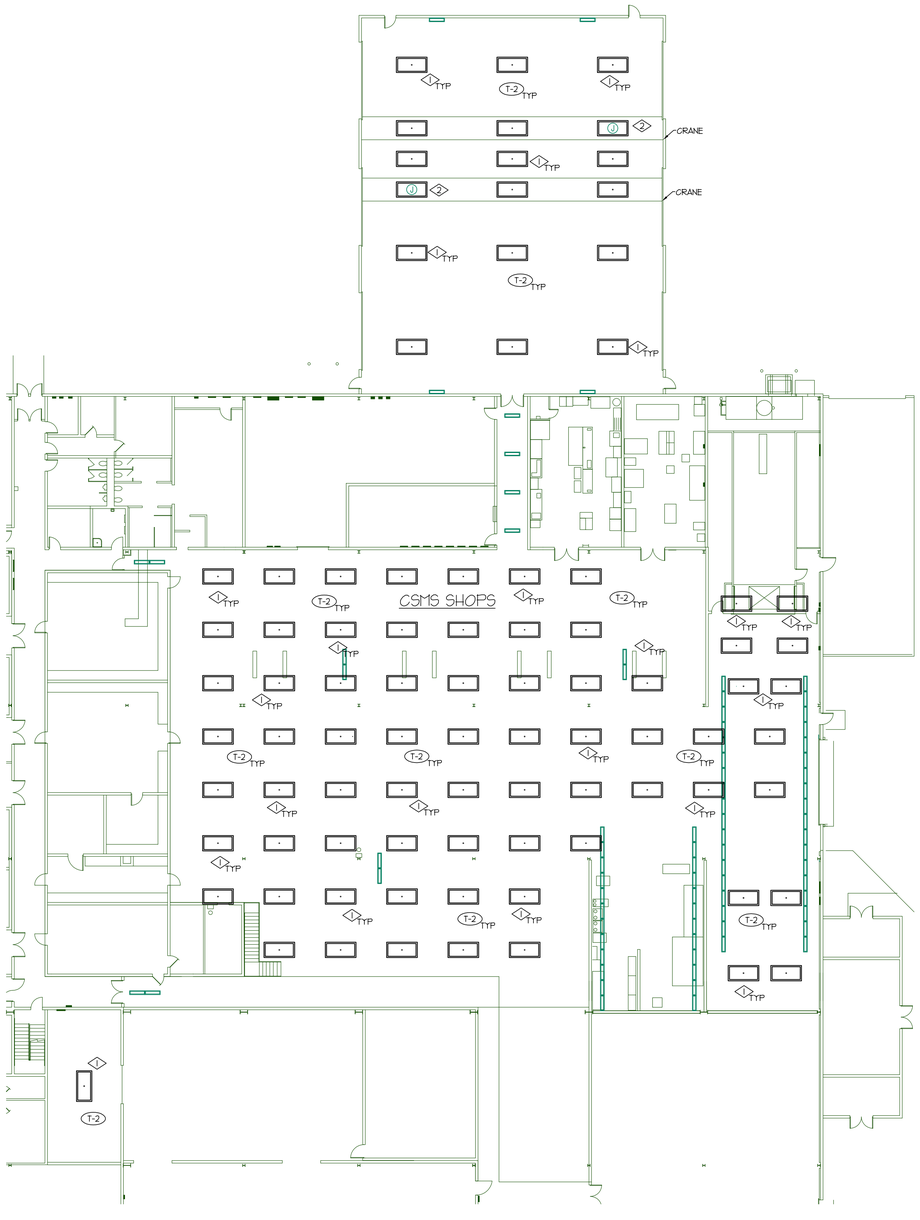
LICENSED PROFESSIONAL ENGINEER
AKBAR MATINKHAH
#172577
STATE OF UTAH

SHEET TITLE
MAIN FLOOR PLAN-LIGHTING

SHEET NO. E-2.1
SHEET OF



PARTIAL FLOOR PLAN – LIGHTING
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN – LIGHTING
SCALE: 1/16" = 1'-0"

SHEET NOTES

REFERENCE NOTES:

1. FURNISH AND INSTALL NEW HI BAY 2x4' FLUORESCENT LIGHT FIXTURE IN THE SAME LOCATION AS EXISTING HID LIGHT FIXTURE. TIE THE NEW FIXTURE TO EXISTING LIGHTING CIRCUIT. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS AS NEEDED FOR A COMPLETE INSTALLATION. SUPPORT THE 4 CORNERS OF THE 2x4' LIGHT FIXTURE WITH AIR CRAFT CABLE TO CEILING DECK. FIELD VERIFY WORK INVOLVED.
2. UTILIZE EXISTING J-BOXES TO PROVIDE POWER TO NEW LIGHT FIXTURE.

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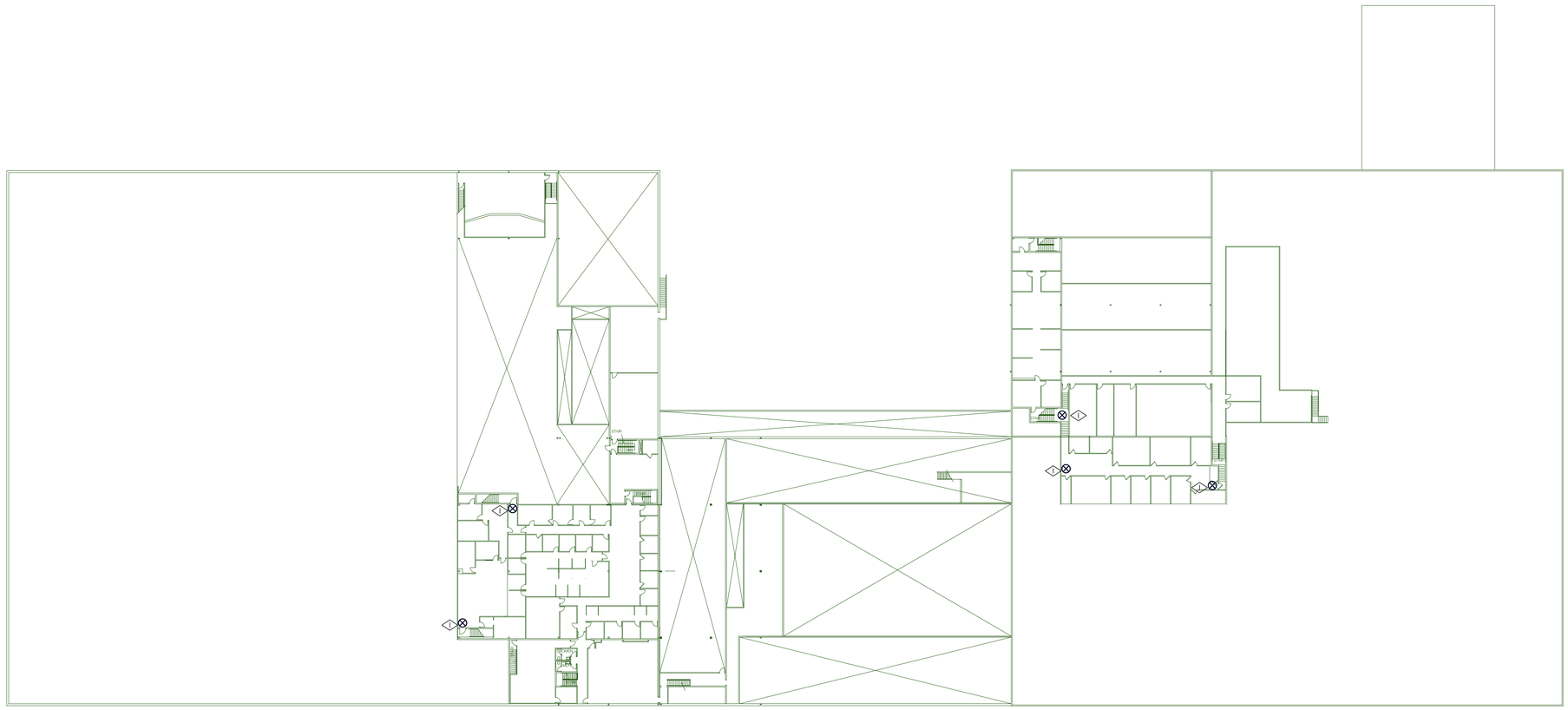
LICENSED PROFESSIONAL ENGINEER
AKBAR MATINKHAH
#172577
STATE OF UTAH

SHEET TITLE
MAIN FLOOR PLAN - LIGHTING

SHEET NO. E-2.2
SHEET OF



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MEZZANINE PLAN – LIGHTING
SCALE: 1/32" = 1'-0"

SHEET NOTES

REFERENCE NOTES:

1. REPLACE EXISTING INCANDESCENT AND FLUORESCENT EXIT SIGNS WITH A NEW LED EXIT SIGN. EXTEND EXISTING CIRCUIT TO NEW EXIT SIGN FOR A COMPLETE INSTALLATION. CONTRACTOR IS TO SALVAGE AND REMOVE ALL EXISTING EXIT SIGNS FROM THE SITE. REFER TO FIXTURE SCHEDULE FOR MORE INFORMATION. ALL UNUSED CONDUCTORS AND CONDUIT MUST BE REMOVED.

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LICENSED PROFESSIONAL ENGINEER
AKBAR MATINKHAH
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STATE OF UTAH

SHEET TITLE
MEZZANINE FLOOR PLAN- LIGHTING

SHEET NO. E-2.3
SHEET OF