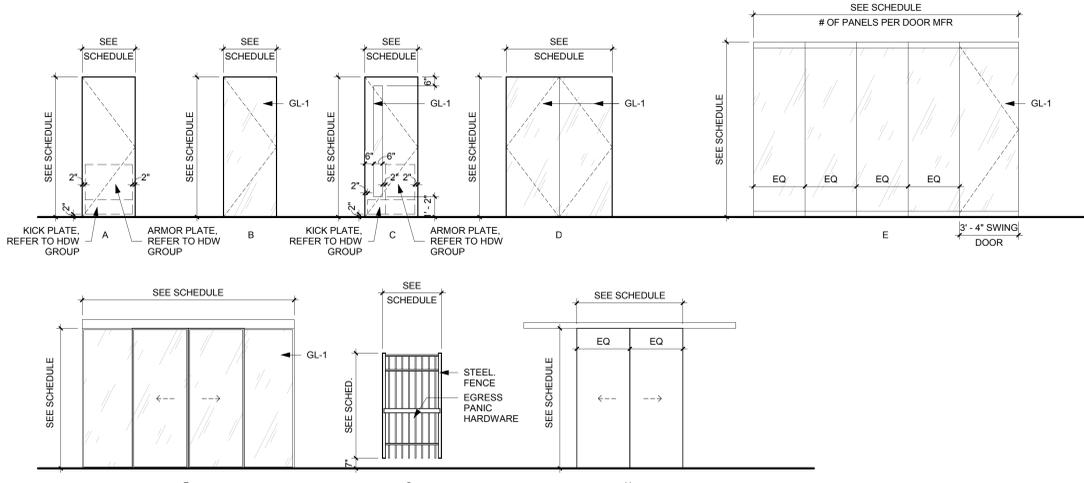


DOOR SCHEDULE REMARKS

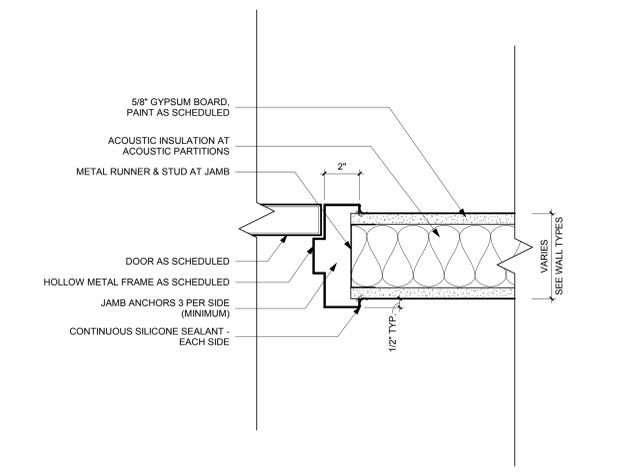
- BORROWED LIGHT ELEVATION BL-1A.
- BORROWED LIGHT ELEVATION BL-4.
- BORROWED LIGHT ELEVATION BL-7A.
- BORROWED LIGHT ELEVATION BL-8B.
- BORROWED LIGHT ELEVATION BL-9.
- BORROWED LIGHT ELEVATION BL-10.
- BORROWED LIGHT ELEVATION BL-12.
- BORROWED LIGHT ELEVATION BL-13.
- PROVIDE 1/2" CLEAR UNDERCUT IN DOOR FOR AIR TRANSFER.
- PROVIDE 3/4" CLEAR UNDERCUT IN DOOR FOR AIR TRANSFER.
- ACOUSTIC SOUND RATED DOOR.
- EXTEND TRACK/FASCIA ACROSS ENTIRE WALL. REFER TO ELEVATION FOR EXTENTS.
- GLASS BOARD GB-1 TO BE ADHERED TO EACH DOOR LEAF. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- VF-1 APPLIED TO DOOR GLAZING.
- SLIDING PANEL PARTITION. REFER TO OPERABLE PARTITION SYSTEMS SPECIFICATION.
- VERTICAL OPERABLE PANEL PARTITION. REFER TO OPERABLE PARTITION SYSTEMS SPECIFICATION.

DOOR NUMBER	ROOM NAME	PANEL QUANTITY	PANEL TYPE	PANEL		PANEL MATERIAL	PANEL FINISH	FRAME			FIRE RATING	HARDWARE GROUP	REMARKS	
				WIDTH	HEIGHT			FRAME TYPE	MATERIAL	FINISH				
102	LOBBY	1	F	13'-0"	10'-0"	GL-1	GL-1	PER MFR	ALUM	CLEAR ANOD		2		
103	PINNEY STUDIO	1	D	6'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	1	
103A	STUDIO STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		6		
104	MECH CLOSET	1	A	3'-6"	8'-0"	WD-2	PT-1	01	HM	PT-1		1	11	
105	SORTING / CIRC. WORK	1	A	3'-6"	8'-0"	WD-2	STN		ALUM	CLEAR ANOD		17	2,14	
109	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	3, 10	
110	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	3, 10	
111	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	4, 10	
112	STUDY ROOM	1	B	3'-0"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		5	5, 10	
113	ADULT QUIET READING	1	B	3'-6"	8'-0"	GL-1	GL-1	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		2	6	
114	COMMUNITY ROOM 1	1	C	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		18		
114A.1	STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		4		
114A.2	STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		4		
115.1	COMMUNITY ROOM 2	2	C	3'-0"	8'-0"	WD	STN	01	HM	PT-1		19		
115.2	COMMUNITY ROOM 2	1	C	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		20		
115A	AV CLOSET	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		6		
115B		PER MFR	PER MFR	24'-0"	12'-0"	PER MFR	AWP-1	PER MFR	PER MFR	PER MFR		PER MFR	16	
116A	ADA TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116B	TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116C	TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116D	ADA TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116E	ADA TLT	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	9	
116F	JANITORS CLOSET	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		21	9	
123.1	CHILDREN'S PROGRAM ROOM	PER MFR	E	16'-0"	10'-0"	GL-1	GL-1	PER MFR	ALUM	CLEAR ANOD		5	15	
123.2	CHILDREN'S PROGRAM ROOM	2	H	6'-0"	8'-2"	WD-2	PT-1	SLIDING DOOR. REFER TO HARDWARE SCHEDULE	ALUM	CLEAR ANOD		9	12, 13	
123A	CHILDREN'S PROGRAM STORAGE	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		11		
124	FAMILY STUDY ROOM	1	C	3'-0"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		10	5, 10	
125	ADA FAMILY RESTROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	10	
126	ADA FAMILY RESTROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		7	10	
127	COMFORT ROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		24	10	
128	SHIPPING/ RECEIVING	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		22	10	
129	IT ROOM	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1		23		
132	BREAK ROOM	1	A	3'-6"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	7	
133	SUPERVISOR'S OFFICE	1	C	3'-0"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	8	
134	LIBRARIAN OFFICES	1	A	3'-6"	8'-0"	WD-2	STN	REFER TO BORROWED LIGHT TYPE & ELEVATION	ALUM	CLEAR ANOD		3	7	
135	ADA STAFF RESTROOM	1	A	3'-0"	8'-0"	WD-2	STN	01	HM	PT-1		8	10	
136	DRIVE-THRU BOOK RETURN	1	A	3'-6"	8'-0"	WD-2	STN	01	HM	PT-1	60-MIN	12		
EX01	PINNEY STUDIO	1	EXISTING	3'-0"	8'-0"	ALUM	CLEAR ANOD	EXISTING	ALUM	CLEAR ANOD		16		
EX02	CHILDREN'S COLLECTION	1	EXISTING	3'-6"	8'-0"	ALUM	CLEAR ANOD	EXISTING	ALUM	CLEAR ANOD		25		
EX03.1	NORTH GARDEN PATIO	1	G	3'-6"	6'-2"	STL	PER FENCE DTL	PER FENCE DTL	STL	PER FENCE DTL		14		
EX03.2	NORTH GARDEN PATIO	1	G	3'-6"	6'-2"	STL	PER FENCE DTL	PER FENCE DTL	STL	PER FENCE DTL		14		
EX04	SHIPPING/ RECEIVING	1	EXISTING	4'-0"	7'-0"	HM	PT-1	EXISTING	HM	PT-1		13		

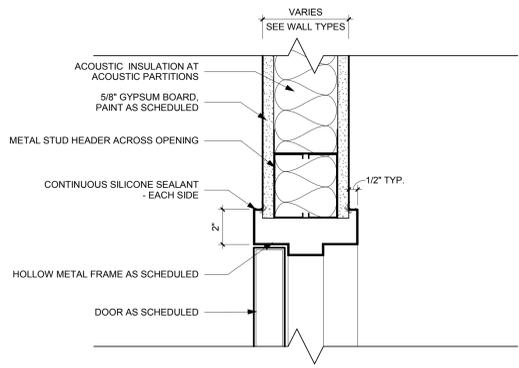


2 DOOR PANEL TYPES

1 DOOR FRAME ELEVATIONS



3 TYPICAL H.M. FRAME JAMB
3\"



4 TYPICAL H.M. FRAME HEAD
3\"

DOOR SCHEDULE NOTES

- SEE FRAME PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONAL SIZES WITH MATERIALS OF FRAMES.
- PREPARE DOOR AND FRAME FOR PAINT - BOND DENTS AND SAND SCRATCHES SMOOTH.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO MANUFACTURING. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING.
- REFER TO INTERIOR FINISH SPECIFICATION ON A600 AND GLAZING SPECIFICATION FOR GLASS TYPE INFORMATION.



301 N Drom St., Suite 100
Madison, WI 53703
P: 608-819-0260

www.opnarchitects.com
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. are instruments of service that remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright therein.

© 2017 OPN Architects, Inc.



Project
PINNEY LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI



1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601

Key Plan

Revision	Date
ADDENDUM 02	02/19/2019

City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
DOOR SCHEDULE AND ELEVATIONS

Sheet Number



Project
PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI



1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601

Key Plan

Revision	Date
A000000002	01/20/2019

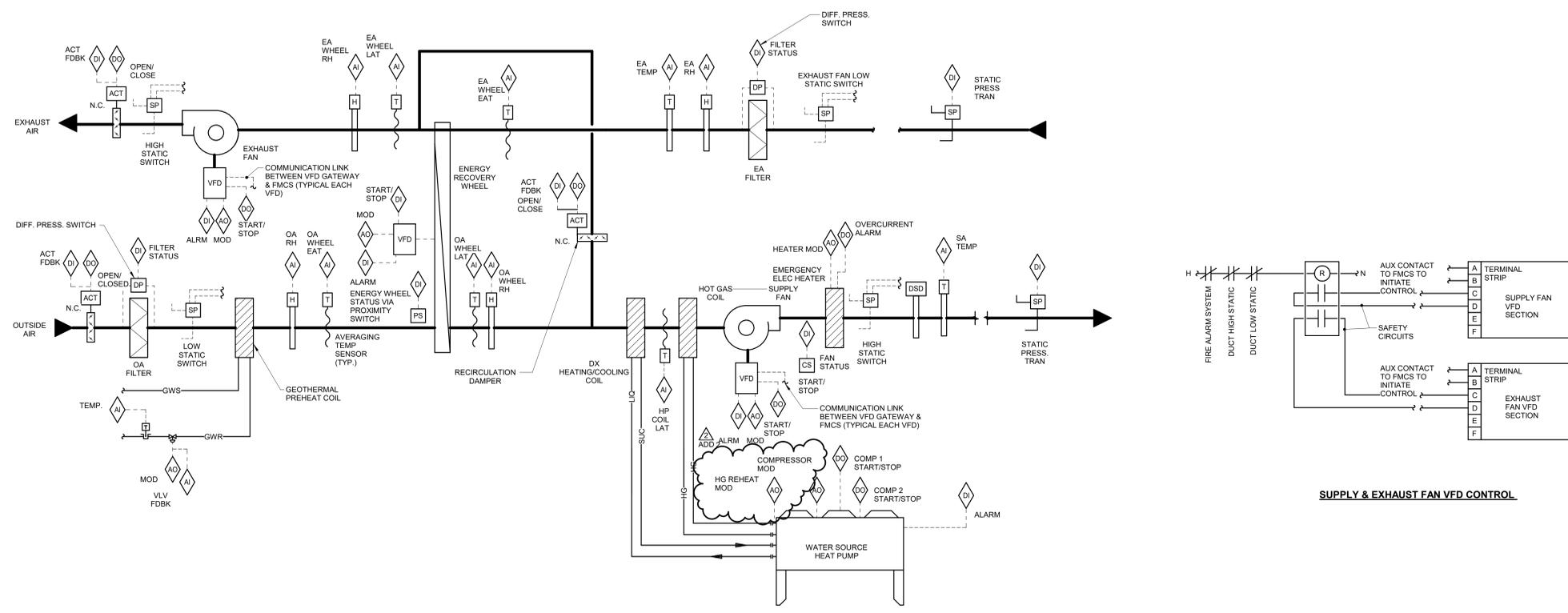
City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
CONTROL DIAGRAMS - MECHANICAL

Sheet Number
M551



SUPPLY & EXHAUST FAN VFD CONTROL

SEQUENCE OF OPERATION:

WHEN AHU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:

- THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL OPEN AFTER A 30 SECOND (ADJ.) DELAY TO ALLOW STARTUP OF AHU-1.
- AFTER OUTSIDE AIR AND EXHAUST AIR DAMPERS ARE PROVEN OPEN THE SUPPLY FAN SHALL BE ENABLED TO RUN.

SUPPLY FAN OPERATION:

FMCS SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

EXHAUST FAN OPERATION:

EXHAUST FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE CRITICAL DUCT BRANCH.

DUCT STATIC PRESSURE RESET OPERATION:

FMCS SHALL RESET DUCT STATIC PRESSURE SETPOINT BELOW THE MAXIMUM SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE TAB DAMPER (SUPPLY OR EXHAUST DEPENDING ON SYSTEM) 90°F (ADJ.) OPEN. FMCS SHALL MONITOR ALL TERMINAL AIR BOX POSITIONS TO RESET THE DUCT DIFFERENTIAL STATIC PRESSURE FOR BOTH SUPPLY AND EXHAUST SYSTEMS.

GLYCOL WATER PRE-HEAT COIL CONTROL:

THE GLYCOL WATER PRE-HEAT COIL SHALL BE USED AS A FREE PRE-HEATER PRIOR TO OUTSIDE AIR ENTERING THE ENERGY RECOVERY WHEEL. THE GLYCOL WATER VALVE SHALL MODULATE TO A MINIMUM OF 10% (ADJ.) OPEN WHENEVER OUTSIDE AIR CONDITIONS ARE LESS THAN 30°F (ADJ.). THE GLYCOL WATER VALVE SHALL MODULATE TO MAINTAIN A COIL LEAVING WATER TEMPERATURE OF 23°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURES ARE BETWEEN 30°F (ADJ.) AND 10°F (ADJ.). THE GLYCOL WATER VALVE SHALL MODULATE TO 100% OPEN WHEN OUTSIDE AIR TEMPERATURES ARE LESS THAN 10°F (ADJ.). IF OA WHEEL EAT SENSES AIR TEMPERATURES BELOW 10°F (ADJ.) GLYCOL WATER CONTROL VALVE SHALL BE OVERRIDDEN TO 100% OPEN REGARDLESS OF GLOBAL OUTSIDE AIR TEMPERATURE MEASUREMENT.

IF VALVE FEEDBACK DOES NOT MATCH CONTROL OUTPUT WHEN OUTSIDE AIR TEMPERATURES ARE BELOW 10°F (ADJ.) DOAU SHALL SHUT DOWN AND ALARM TO OPERATOR INTERFACE DUE TO POTENTIAL FREEZE CONCERN ON GLYCOL COIL. IF GLYCOL WATER PUMPS ARE NOT OPERATING PER SEQUENCE ON M550 WHEN OUTSIDE AIR TEMPERATURES ARE BELOW 10°F (ADJ.) THAN DOAU SHALL SHUT DOWN AND ALARM TO OPERATOR INTERFACE.

ENERGY RECOVERY WHEEL CONTROL:

ENERGY RECOVERY WHEEL DISCHARGE AIR TEMPERATURE CONTROL. THE ENERGY RECOVERY WHEEL SHALL BE USED AS THE FIRST STAGE OF HEATING AND COOLING AND SHALL BE SEQUENCED WITH THE DIGITAL SCROLL COIL TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT. THE VFD SPEED SHALL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT SUBJECT TO THE FROST CONTROL OVERRIDE. THE ENERGY RECOVERY WHEEL SHALL BE INDEXED OFF WHENEVER THE OUTDOOR AIR TEMPERATURE IS LESS THAN THE EA WHEEL EAT AND THE DISCHARGE TEMPERATURE SETPOINT IS LESS THAN THE OUTDOOR AIR TEMPERATURE.

DEFROST CONTROL: OVERRIDE THE HEATING WHEEL SPEED CONTROL TO LIMIT THE LEAVING EXHAUST AIR TEMPERATURE FROM THE WHEEL TO 15°F (ADJ.) AT A RETURN AIR RELATIVE HUMIDITY OF 30% RH AND RESET TO 5°F (ADJ.) AT 20% RH.

PURGE CONTROL: WHEN THE HEAT WHEEL IS DEACTIVATED, THE WHEEL SHALL RUN FOR 20 SECONDS AT MINIMUM SPEED EVERY 30 MINUTES TO KEEP THE ROTOR SURFACE CLEAN. BYPASS DAMPERS SHALL REMAIN OPEN DURING PURGE SEQUENCE.

DISCHARGE AIR TEMPERATURE AND DEHUMIDIFICATION CONTROL:

INSTALL A TEMPERATURE SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF THE SUPPLY FAN AND ALSO A TEMPERATURE SENSOR DOWNSTREAM OF THE HEAT PUMP HEATING/COOLING COIL.

DISCHARGE AIR TEMPERATURE SETPOINT: DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET LINEARLY PER FOLLOWING SCHEDULE:

- DISCHARGE AIR SETPOINT SHALL BE 63°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 80°F (ADJ.)
- DISCHARGE AIR SETPOINT SHALL BE 70°F (ADJ.) WHEN OUTSIDE AIR TEMPERATURE IS BELOW 40°F (ADJ.)
- MAXIMUM HUMIDITY SETPOINT 55% (ADJ.)

THE ENERGY RECOVERY WHEEL AND WATER SOURCE HEAT PUMP (WSP-1) DX COIL SHALL OPERATE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. WHEN IN COOLING MODE IF THE EXHAUST AIR RELATIVE HUMIDITY UPSTREAM OF ENERGY WHEEL OR ANY SPACE HUMIDITY SENSORS OF ROOMA 114, 115, OR 123 EXCEEDS 55% RH (ADJ.) SETPOINT THE WSP MAIN COIL COMPRESSORS SHALL MODULATE TO MAINTAIN HUMIDITY SETPOINT BY RESETTING THE COOLING COIL DISCHARGE AIR SETPOINT TO 53°F (ADJ.) FOR ONE HOUR (ADJ.) BEFORE RELEASE BACK TO NORMAL CONTROL. THE HOT GAS REHEAT COIL SHALL MODULATE TO MAINTAIN A SUPPLY DUCT DISCHARGE AIR TEMPERATURE SETPOINT. WHEN IN HEATING MODE THE WSP COMPRESSOR SHALL MODULATE TO MAINTAIN SUPPLY DUCT DISCHARGE TEMPERATURE SETPOINT.

EMERGENCY ELECTRIC HEATING COIL SHALL BE THE FINAL STAGE OF HEAT AND ONLY USED TO ACHIEVE DISCHARGE AIR TEMPERATURE SETPOINT IF THE WSP IS AT MAXIMUM HEAT OUTPUT AND DISCHARGE AIR TEMPERATURE IS NOT MAINTAINING SETPOINT. FMCS SHALL MODULATE SIGNAL TO ELECTRIC HEAT CONTROL PANEL TO MODULATE SCR CONTROLLED ELECTRIC HEATER. IF EMERGENCY ELECTRIC HEAT IS BEING USED AN NOTIFICATION SHALL ALERT TO OPERATOR INTERFACE TO ASSOCIATE THAT EMERGENCY ELECTRIC HEAT IS IN OPERATION.

THE DDC SYSTEM SHALL ALARM TO THE OPERATOR INTERFACE WHEN THE DISCHARGE AIR TEMPERATURE IS 10°F (ADJ.) FROM SETPOINT OR WHEN THE EXHAUST AIR RELATIVE HUMIDITY IS 10% FROM SETPOINT (ADJ.).

ALARMS, INTERLOCKS, AND SAFETIES:

WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, AHU SHALL BE SHUTDOWN.

THE FOLLOWING CONDITIONS SHALL SHUTDOWN THE AHU AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION:

- LOW STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS.
- HIGH STATIC PRESSURE SWITCH INDICATES EXHAUST DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- LOW STATIC PRESSURE SWITCH INDICATES OUTSIDE AIR SECTION PRESSURE LESS THAN THE SPECIFIED DUCT PRESSURE CLASS OF THE OUTSIDE AIR DUCTWORK.
- HIGH STATIC PRESSURE SWITCH INDICATES SUPPLY DUCT STATIC PRESSURE GREATER THAN THE SPECIFIED DUCT PRESSURE CLASS.
- ANY ALARM CONDITION AS NOTED IN GLYCOL WATER PRE-HEAT COIL CONTROL SEQUENCE.

THE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS, HOWEVER AHU SHALL CONTINUE TO OPERATE:

- AN ALARM IS INDICATED AT ANY SUPPLY FAN VFD OR EXHAUST FAN VFD.
- DIFFERENTIAL PRESSURE SWITCH ACROSS ANY MERV 8 FILTER BANK EXCEEDS 0.55 INCHES W.G. (ADJ.) OF IT ANY MERV 13 FILTER BANK EXCEEDS 0.6 INCHES W.G. (ADJ.)
- SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT FOR 10 MINUTES (ADJ.).
- THE HEAT WHEEL COMES WITH FACTORY EQUIPPED WITH A PROXIMITY SWITCH THAT SHALL PROVIDE A DRY CONTACT IN PUT TO THE DDC SYSTEM. IF THE WHEEL IS INDEXED TO RUN AND TWO SWITCH CLOSURES ARE NOT SEEN WITH 10 MINUTES, AN ALARM WILL BE SENT THROUGH THE DDC SYSTEM SIGNALING A WHEEL ROTATION FAILURE.
- SEND AN ALARM TO OPERATOR INTERFACE IS SUM OF SUPPLY AIR TERMINAL BOXES FALLS BELOW 10% OF SET POINT FOR MORE THAN 5 MINUTES (ADJ.)
- EMERGENCY ELECTRIC HEAT IS CALLED FOR OPERATION AND ELECTRIC HEAT OVERCURRENT ALARM CONTACT ON ELECTRIC HEATER CONTROL PANEL IS INDICATING AN ALARM CONDITION.

IN THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE VFD MONITORING) EXHAUST AIR FAN SHALL BE DE-ENERGIZED.

WHENEVER AHU IS SHUTDOWN, THE FOLLOWING SHALL OCCUR:

- THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL CLOSE.
- CONDENSING UNIT SHALL BE DENERGIZED.
- SUPPLY FAN AND EXHAUST FAN VFDs SHALL BE DE-ENERGIZED.
- ENERGY RECOVERY WHEEL SHALL STOP.

UNOCCUPIED MODE:

UNIT SHALL BE DISABLED DURING UNOCCUPIED HOURS. OCCUPIED/UNOCCUPIED HOURS SHALL BE COORDINATED WITH OWNER.

RECIRCULATION MODE:

UNIT CONTAINS A RECIRCULATION DAMPER THAT IS MEANT FOR EMERGENCY HEATING/COOLING PURPOSES. DURING RECIRCULATION MODE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE CLOSED AND RECIRCULATION DAMPER SHALL BE OPEN. DURING ALL OTHER TIMES RECIRCULATION DAMPER SHALL BE CLOSED. DURING RECIRCULATION MODE SUPPLY FAN, HEATING/COOLING COIL, HOT GAS COIL, AND EMERGENCY HEATING ELECTRIC COIL SHALL OPERATE UNDER NORMAL CONDITIONS. EXHAUST FAN AND ENERGY WHEEL SHALL BE DISABLED. ALL TERMINAL AIR BOXES SHALL CONTROL TO MAXIMUM SET POINTS. DISCHARGE AIR TEMPERATURE SHALL BE RESET BETWEEN 50°F AND 110°F AS REQUIRED TO MAINTAIN AN EXHAUST AIR TEMPERATURE OF 70°F IN HEATING AND 74°F IN COOLING. RECIRCULATION MODE EMERGENCY OPERATION SHALL HAVE A SELECTABLE ENABLE/DISABLE POINT THROUGH THE OPERATOR INTERFACE AND THROUGH A TOGGLE IN THE DDC CONTROL PANEL.

GRAPHICAL DISPLAY:

DISPLAY THE GLOBAL OA TEMPERATURE ON AHU GRAPHIC PAGE.

1 ENERGY RECOVERY UNIT - AHU-1
12" = 1'-0"

IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 17002287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2018 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

PRINTED: 1/30/2019 1:14:43 PM

PRINTED: 1/30/2019 1:14:26 PM

AIR HANDLING UNIT

- NOTES: 1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13. 2. LAT LISTED IS AT LEAVING SIDE OF COOLING COIL. 3. ENERGY RECOVERY WHEEL SHALL HAVE 310 PURGE CFM. 4. BOTH FANS AND ENERGY WHEEL SHALL HAVE 208V POWER. 5. AT LEAST ONE COMPRESSOR SHALL HAVE DIGITAL SCROLL COMPRESSORS. 6. REFER TO SEPERATE SCHEDULES FOR AHU-1 PREHEAT SCHEULE AND AHU-1 EMERGENCY ELECTRIC HEATING COIL.

Table with columns for TAG NAME, AREA SERVED, CFM, MIN. CFM, EXT. S.P., TYPE, DISCONNECT, CONTROLLER/STARTER, EXHAUST FAN, COIL DOX, HEATING COIL - DX, HOT GAS REHEAT, COOLING COIL - DX (NOTE 2), ENERGY RECOVERY WHEEL, SA FILTER, EA FILTER, ELECTRICAL (NOTE 4).

AIR HANDLING UNIT (AHU-1) PREHEAT COIL

- NOTES: 1. COIL SELECTION IS BASED ON 25% PROPYLENE GLYCOL. 2. LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.

Table with columns for GLYCOL COIL CFM, GLYCOL COIL EAT DB, GLYCOL COIL EWT, GLYCOL COIL GPM, GLYCOL COIL LAT DB, GLYCOL COIL LWT, GLYCOL COIL STATIC PRESSURE, GLYCOL COIL TOTAL, GLYCOL COIL WPD, REMARKS.

AIR HANDLING UNIT (AHU-1) EMERGENCY ELECTRIC HEATING COIL

- NOTES: 1. ELECTRIC COIL SHALL BE SCR CONTROLLED WITH 0-10 VDC INPUT FROM DDC AND ALARM OUTPUT. 2. UNIT SHALL HAVE REMOTE CONTROL PANEL SHIPPED LOOSE FOR FIELD MOUNTING.

Table with columns for MINIMUM AIRFLOW (CFM), MAXIMUM AIRFLOW (CFM), EAT, LAT AT MAX AIRFLOW, HEATING OUTPUT KW, PHASE, VOLTAGE, AMPS, DISCONNECT, CONTROLLER.

BRANCH SELECTOR BOX SCHEDULE

Table with columns for SYMBOL, VOLTAGE, PHASES, MCA, MOC, DISCONNECT, CONTROLLER, MANUFACTURER, MODEL, REMARKS.

VRF INDOOR UNIT SCHEDULE

- NOTES: 1. INDOOR UNITS SELECTED FOR SPACE PEAK LOADS. 2. PROVIDE 30% FILTERS FOR EACH UNIT. FILTER MAY BE INTEGRAL OR SUITABLE FOR FIELD INSTALLATION IN FABRICATED FILTER ANGLES. FILTER ANGLES PROVIDED BY M.C. 3. UNIT SHALL BE PROVIDED WITH CONDENSATE PUMP. 4. REFER TO SPECIFICATION 23 05 45 FOR DESCRIPTION OF CONTROLS. 5. INDOOR UNIT CFM SELECTED AT HIGH CFM. INDOOR UNIT SHALL HAVE CAPABILITY TO ADJUST CFM FOR FINAL AIR BALANCING UP OR DOWN THROUGH FIELD ADJUSTMENT. 6. DUCTED CONCEALED UNITS SHALL BE PROVIDED WITH SUPPLY AND RETURN DUCT FLANGES. 7. UNIT SHALL INCLUDE AUXILIARY CONTACT TO ENABLE AUXILIARY HEAT EITHER NOW OR IN THE FUTURE.

Large table with columns for TAG NAME, AREA SERVED, LENGTH, WIDTH, HEIGHT, ASSOCIATED VRF HEAT PUMP, CONFIGURATION, TONS, CFM, EXT. S.P. IN. W.C., REFRIGERANT, DESIGN COOLING, DESIGN HEATING, COOLING CAPACITY, HEATING CAPACITY, ELECTRICAL, DISCONNECT, CONTROLLER/STARTER, MANUFACTURER, MODEL, NOTES.

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT - SUPPLY AIR

- NOTES: 1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 58" 20-LB DENSITY MINERAL FIBER CEILING TILE. 2. SEE SPECIFICATION SECTION 23 09 00 FOR DESCRIPTION OF CONTROL TYPE.

Table with columns for TAG NAME, AREA SERVED, COOLING MAX., MIN., MIN. INLET SIZE (IN.) DIA., CONTROL TYPE (NOTE 2), MANUFACTURER, MODEL, NOTES.

TERMINAL AIR BOX SCHEDULE - SINGLE DUCT - EXHAUST AIR

- NOTES: 1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 58" 20-LB DENSITY MINERAL FIBER CEILING TILE. 2. SEE SPECIFICATION SECTION 23 09 00 FOR DESCRIPTION OF CONTROL TYPE.

Table with columns for TAG NAME, AREA SERVED, COOLING MAX., MIN., MIN. INLET SIZE (IN.) DIA., CONTROL TYPE (NOTE 3), MANUFACTURER, MODEL, NOTES.

HEAT PUMP SCHEDULE - WATER-TO-DIRECT EXPANSION COIL

- NOTES: 1. PROVIDE UNIT WITH DIGITAL SCROLL COMPRESSORS FOR AT LEAST THE LEAD COMPRESSOR. 2. GEOTHERMAL WATER CONTAINS 25% PROPYLENE GLYCOL. 3. UNIT SHALL HAVE HOT GAS REHEAT CIRCUIT WITH MODULATING HOT GAS REHEAT VALVE. REHEAT SHALL BE SIZED TO HANDLE REHEAT PER AHU SCHEDULE. 4. UNIT SHALL HAVE SCRR RATING OF AT LEAST 20,000 A.

Table with columns for TAG NAME, REFRIGERANT TYPE, COOLING EWT, HEATING EWT, NOMINAL DESIGN TONS, COOLING CAPACITY BTUH, MINIMUM EFFICIENCY, WATER SOURCE HP COP AT OPER, GPM, WPD, VOLTAGE, PHASES, FLA, MOC, DISCONNECT, CONTROLLER/STARTER, MANUFACTURER, MODEL, REMARKS.

VRF WATER COOLED CONDENSING UNIT SCHEDULE

- NOTES: 1. THE CONDENSING UNIT IS SELECTED WITH THE DIVERSITY. 2. THE REFRIGERANT CHARGE FOR A CIRCUIT SHALL NOT CROSS THE REFRIGERANT VOLUME LIMIT PER IMC 2012, TABLE 1103.1. 3. UNIT SHALL HAVE SCRR RATING OF AT LEAST 20,000 A.

Table with columns for TAG NAME, COOLING EWT, HEATING EWT, NOMINAL DESIGN TONS, COOLING CAPACITY BTUH, HEATING CAPACITY BTUH, NUMBER OF MODULES, GPM, WPD, VOLTAGE, PHASES, MCA, MOC, DISCONNECT, CONTROLLER/STARTER, MANUFACTURER, MODEL, REMARKS.

PUMP SCHEDULE

- NOTES: 1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 23 05 13. 2. PUMP SHALL BE SELECTED BASED ON 25% PROPYLENE GLYCOL AND 36F TEMPERATURE.

Table with columns for TAG NAME, PUMP FT. HEAD AT DESIGN, MINIMUM PUMP EFFICIENCY, INLET SIZE, IMPELLER SIZE, BRAKE HORSEPOWER, HP, RPM, VOLTAGE, PHASES, DISCONNECT, CONTROLLER/STARTER, MANUFACTURER, MODEL, NOTES.

MOTOR OPERATED DAMPER SCHEDULE

Table with columns for TAG NAME, AREA SERVED, WIDTH, HEIGHT, MAX. CFM, MIN. CFM, BLADE CONFIGURATION, BLADE ORIENTATION, INSULATED, ACTUATOR TYPE, ACTUATOR STYLE, POWER FAILURE POSITION, POSITIVE POSITION FEEDBACK REQUIRED, NOTES.

RADIANT CEILING PANEL - ELECTRIC

Table with columns for TAG NAME, AREA SERVED, ELEMENT WATTS, VOLTAGE, PHASES, DISCONNECT, CONTROLLER/STARTER, CONTROL, MANUFACTURER, MODEL, NOTES.

GLYCOL FEED SYSTEM

- NOTES: 1. SEE 23 21 00 FOR ADDITIONAL SYSTEM REQUIREMENTS.

Table with columns for TAG NAME, AREA SERVED, TANK VOLUME, SYSTEM FILL PRESSURE, PUMP HEAD PSI, GPM, MHP, VOLTAGE, PHASES, DISCONNECT, CONTROLLER/STARTER, NOTES.

SCHEDULE GENERAL NOTES

- KEY NAME: SCHEDULE GENERAL NOTES. A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY: MFR = MANUFACTURER, EC = ELECTRICAL CONTRACTOR, MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR, MFR/EC = FURNISHED LOOSE BY MANUFACTURER. B. DISCONNECT TYPE: F = FUSED, NF = NON-FUSED. C. CONTROLLER STARTER TYPE: FV = FULL VOLTAGE, WYE = WYE-DELTA, SS = SOLID STATE (SOFT START), MS = MANUAL STARTER, VFD = VARIABLE FREQUENCY DRIVE, VFD-B = VARIABLE FREQUENCY DRIVE WITH BYPASS. D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE WITH THE SCHEDULED WHEEL TYPE. E. NO EQUIPMENT SHALL BE SELECTED ABOVE 80% OF MOTOR NAME PLATE RATING. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

FAN SOUND REQUIREMENTS SCHEDULE

Table with columns for TAG NAME, FAN, MAXIMUM ALLOWABLE GENERATED NOISE IN DB RE 10^-12 WATTS, OCTAVE BAND CENTER FREQUENCY, REMARKS.

GRILLES REGISTERS & DIFFUSERS SCHEDULE

Table with columns for TAG NAME, MATERIAL, CONFIGURATION, MARGIN (IN), INLET SIZE (IN), FACE SIZE (IN), VOLUME DAMPER REQUIRED, FINISH, MANUFACTURER, MODEL, NOTES.

LINEAR DIFFUSER SCHEDULE

Table with columns for TAG NAME, MATERIAL, SLOT WIDTH, NO. OF SLOTS, WIDTH, LENGTH, PLENUM REQUIRED, PLENUM INSULATION TYPE, PLENUM INLET SIZE, PATTERN CONTROL REQUIRED, BALANCING DAMPER REQUIRED, FINISH, MANUFACTURER, MODEL, NOTES.



301 N Broom St., Suite 100 Madison, WI 53703 P: 608-819-0260

www.opnarchitects.com All reports, plans, specifications, computer files, hard data, notes and other documents and instruments prepared by OPN Architects, Inc. are instruments of service that remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all copyright law, database and other reserved rights, including the copyright therein. © 2017 OPN Architects, Inc.



Foundation

Project PINNEY NEIGHBORHOOD LIBRARY 516 COTTAGE GROVE ROAD MADISON, WI

MERT Engineer



1800 DEMING WAY, SUITE 200 MADISON, WI 53762 P. 608.223.9600 F. 608.223.9601

Key Plan

Revision Date

AC00820M-02 01/20/2019

City Contract No.

7662 MOD/REV: WIS 03/06

OPN Project No. 17690000

Sheet No. Date

BID DOCUMENTS 11/30/2018

Sheet Name

MECHANICAL SCHEDULES

Sheet Number

M600



MADISON PUBLIC LIBRARY



MADISON PUBLIC LIBRARY Foundation

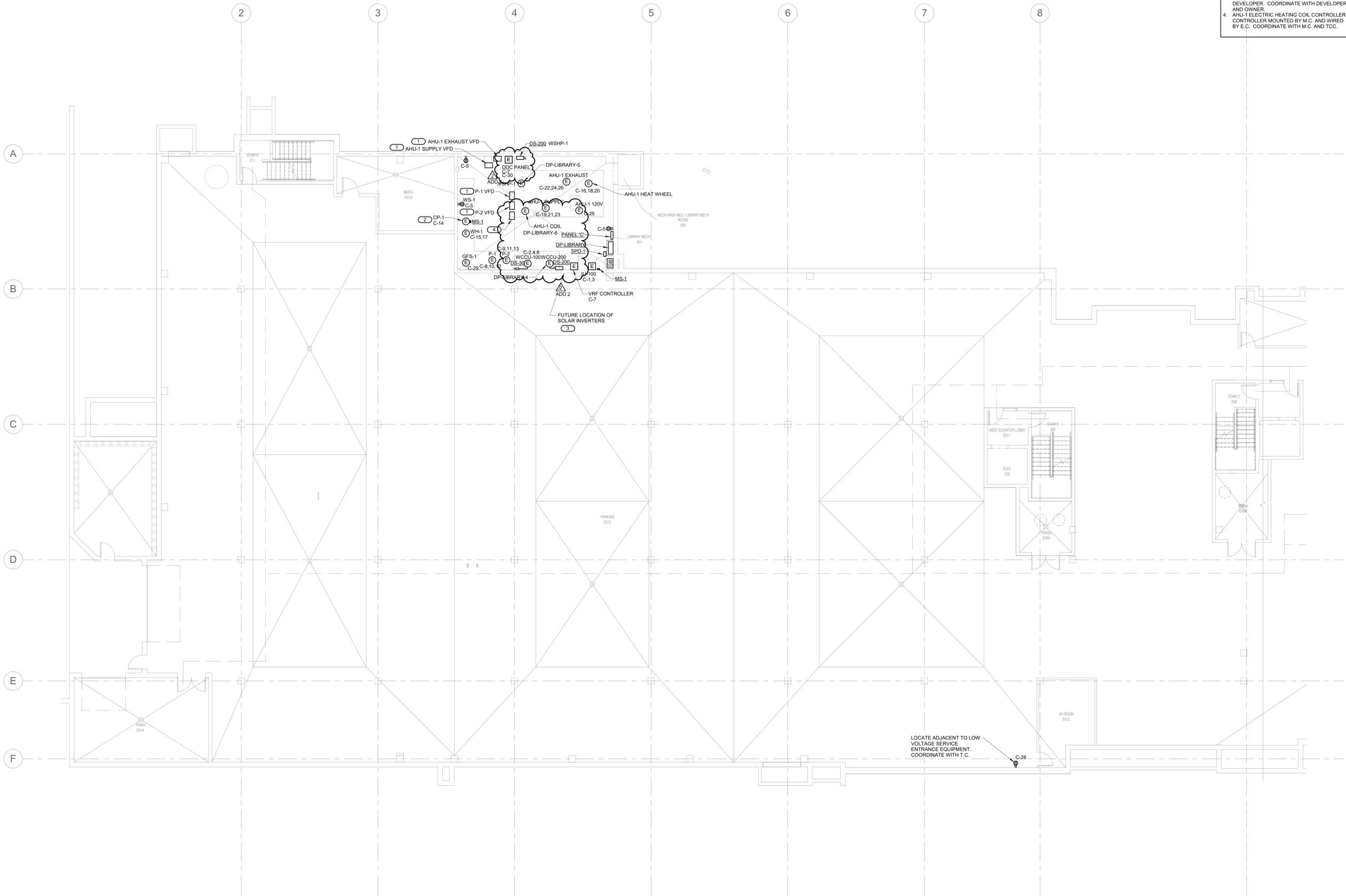
Project
PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI



1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601

KEYNOTES: (W)

- VFD PROVIDED BY TCC AND INSTALLED BY E.C.
- E.C. SHALL INSTALL AQUASTAT PROVIDED WITH CP-1. COORDINATE WITH P.C.
- PROVIDE (2) 3" CONDUITS CAPPED AT FUTURE PHOTOVOLTAIC INVERTER LOCATIONS FROM EXTERIOR CONDUIT ENTRIES ON THE NORTH FOUNDATION WALL BY THE BUILDING DEVELOPER. COORDINATE WITH DEVELOPER AND OWNER.
- AHU-1 ELECTRIC HEATING COIL CONTROLLER MOUNTED BY M.C. AND WIRED BY E.C. COORDINATE WITH M.C. AND T.C.



LOCATE ADJACENT TO LOW VOLTAGE SERVICE ENTRANCE EQUIPMENT. COORDINATE WITH T.C.

LEVEL 0 FLOOR PLAN - ELECTRICAL - POWER
1/8" = 1'-0"

IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 1702287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP.
© 2018 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

Key Plan

Revision	Date
ADDENDUM 02	01/30/2019

City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
LEVEL 0 FLOOR PLAN - POWER

Sheet Number
E200

PRINTED: 1/30/2019 1:13:30 PM



MADISON PUBLIC LIBRARY



MADISON PUBLIC LIBRARY Foundation

Project
PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI



1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601

Key Plan

Revision Date
ADDENDUM 01 01/20/2019
ADDENDUM 02 01/20/2019

City Contract No.
7662
OPN Project No.
17609000

Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
LEVEL 1 FLOOR PLAN - POWER

Sheet Number
E201

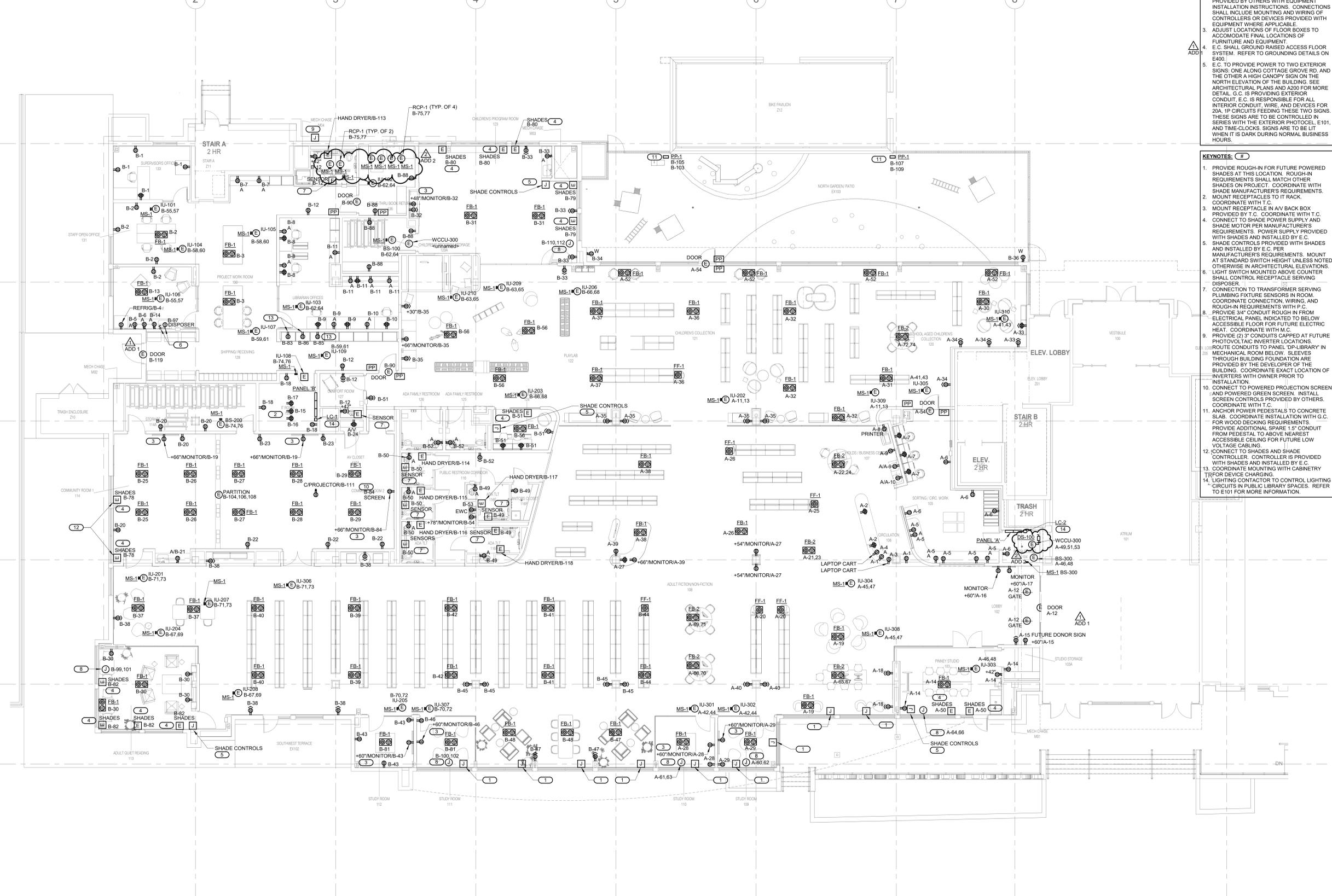
SHEET NOTES:

- REFER TO ARCHITECTURAL ELEVATIONS AND FLOOR PLANS FOR ADDITIONAL DEVICE LOCATION AND HEIGHT REQUIREMENTS. EQUIPMENT SPECIFIC RECEPTACLES SHALL BE ADJUSTED TO MEET THE SPECIFIC EQUIPMENT REQUIREMENTS AND ARCHITECTURAL ELEVATIONS.
- COORDINATE CONNECTIONS TO EQUIPMENT PROVIDED BY OTHERS WITH EQUIPMENT INSTALLATION INSTRUCTIONS. CONNECTIONS SHALL INCLUDE MOUNTING AND WIRING OF CONTROLLERS OR DEVICES PROVIDED WITH EQUIPMENT WHERE APPLICABLE.
- ADJUST LOCATIONS OF FLOOR BOXES TO ACCOMMODATE FINAL LOCATIONS OF FURNITURE AND EQUIPMENT.
- E.C. SHALL GROUND RAISED ACCESS FLOOR SYSTEM. REFER TO GROUNDING DETAILS ON E400.
- E.C. TO PROVIDE POWER TO TWO EXTERIOR SIGNS: ONE ALONG COTTAGE GROVE RD. AND THE OTHER A HIGH CANOPY SIGN ON THE NORTH ELEVATION OF THE BUILDING. SEE ARCHITECTURAL PLANS AND A200 FOR MORE DETAIL. G.C. IS PROVIDING EXTERIOR CONDUIT, E.C. IS RESPONSIBLE FOR ALL INTERIOR CONDUIT, WIRE, AND DEVICES FOR 20A, 1P CIRCUITS FEEDING THESE TWO SIGNS. THESE SIGNS ARE TO BE CONTROLLED IN SERIES WITH THE EXTERIOR PHOTOCELL E101, AND TIME-CLOCKS. SIGNS ARE TO BE LIT WHEN IT IS DARK DURING NORMAL BUSINESS HOURS.

KEYNOTES:

- PROVIDE ROUGH-IN FOR FUTURE POWERED SHADES AT THIS LOCATION. ROUGH-IN REQUIREMENTS SHALL MATCH OTHER SHADES ON PROJECT. COORDINATE WITH SHADE MANUFACTURER'S REQUIREMENTS.
- MOUNT RECEPTACLES TO IT RACK. COORDINATE WITH T.C.
- MOUNT RECEPTACLE IN AN BACK BOX PROVIDED BY T.C. COORDINATE WITH T.C.
- CONNECT TO SHADE POWER SUPPLY AND SHADE MOTOR PER MANUFACTURER'S REQUIREMENTS. POWER SUPPLY PROVIDED WITH SHADES AND INSTALLED BY E.C.
- SHADE CONTROLS PROVIDED WITH SHADES AND INSTALLED BY E.C. PER MANUFACTURER'S REQUIREMENTS. MOUNT AT STANDARD SWITCH HEIGHT UNLESS NOTED OTHERWISE IN ARCHITECTURAL ELEVATIONS.
- LIGHT SWITCH MOUNTED ABOVE COUNTER SHALL CONTROL RECEPTACLE SERVING DISHES.
- CONNECTION TO TRANSFORMER SERVING PLUMBING FIXTURE SENSORS IN ROOM. COORDINATE CONNECTION, WIRING, AND ROUGH-IN REQUIREMENTS WITH P.C.
- PROVIDE 3/4" CONDUIT ROUGH IN FROM ELECTRICAL PANEL INDICATED TO BELOW ACCESSIBLE FLOOR FOR FUTURE ELECTRIC HEAT. COORDINATE WITH M.C.
- PROVIDE (2) 3" CONDUITS CAPPED AT FUTURE PHOTOVOLTAIC INVERTER LOCATIONS. ROUTE CONDUITS TO PANEL DP-LIBRARY IN MECHANICAL ROOM BELOW. SLEEVES THROUGH BUILDING FOUNDATION ARE PROVIDED BY THE DEVELOPER OF THE BUILDING. COORDINATE EXACT LOCATION OF INVERTERS WITH OWNER PRIOR TO INSTALLATION.
- CONNECT TO POWERED PROJECTION SCREEN AND POWERED GREEN SCREEN. INSTALL SCREEN CONTROLS PROVIDED BY OTHERS. COORDINATE WITH T.C.
- ANCHOR POWER PEDESTALS TO CONCRETE SLAB. COORDINATE INSTALLATION WITH G.C. FOR WOOD DECKING REQUIREMENTS. PROVIDE ADDITIONAL SPARE 1.5" CONDUIT FROM PEDESTAL TO ABOVE NEAREST ACCESSIBLE CEILING FOR FUTURE LOW VOLTAGE CABLING.
- CONNECT TO SHADES AND SHADE CONTROLLER. CONTROLLER IS PROVIDED WITH SHADES AND INSTALLED BY E.C.
- COORDINATE MOUNTING WITH CABINETRY TRFOR DEVICE CHARGING.
- LIGHTING CONTACTOR TO CONTROL LIGHTING "CIRCUITS IN PUBLIC LIBRARY SPACES. REFER TO E101 FOR MORE INFORMATION.

PRINTED: 1/30/2019 1:13:50 PM



LEVEL 1 FLOOR PLAN - POWER
1/8" = 1'-0"

IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 1702287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. THIS DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP.
© 2018 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3



Project
PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI



Key Plan

Revision	Date
ADDENDUM 02	01/30/2019

City Contract No.
7662

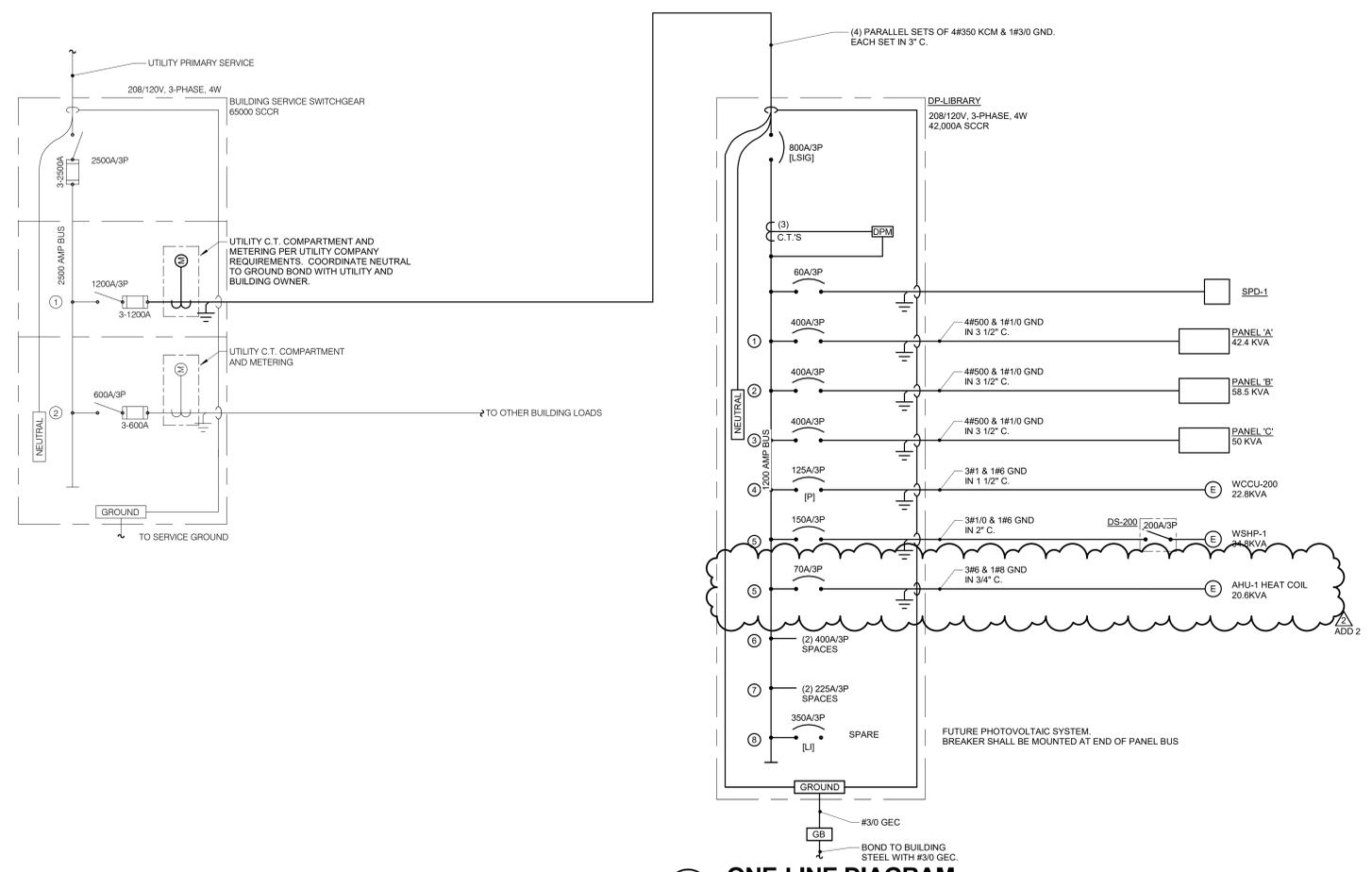
OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
ELECTRICAL ONE-LINE DIAGRAMS

Sheet Number
E500

- ONE LINE DIAGRAM NOTES**
- AIC RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
 - INDICATES DIRECT CONNECTION OF GROUND CONDUCTOR TO GROUND BUS. SUBSCRIPT "T" INDICATES DIRECT CONNECTION OF ISOLATED GROUND CONDUCTOR TO ISOLATED GROUND BUS.
 - INDICATES O.Z. CEDNEY OR EQUAL GROUND BUSHING BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
 - INDICATES OVERLOADS SIZED PER MOTOR NAMEPLATE FULL LOAD AMPERES.
 - INDICATES STARTER NEMA SIZE.
 - AF INDICATES MOLDED/INSULATED CASE BREAKER FRAME SIZE, FOR ADJUSTABLE TRIP BREAKERS.
 - AT INDICATES MOLDED/INSULATED CASE BREAKER TRIP UNIT RATING, FOR ADJUSTABLE TRIP BREAKERS.
 - [L,SIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER. [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT].
 - INDICATES GROUND FAULT RELAY.
 - CONDUCTOR AND CONDUIT SIZES ON THE LINE AND LOAD SIDES OF ALL NON-FUSIBLE DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
 - INDICATES DIGITAL POWER MONITOR.
 - INDICATES KILOWATT-HOUR METER AS SUPPLIED BY UTILITY COMPANY.
 - INDICATES CURRENT TRANSFORMER, SIZE AS SPECIFIED.
 - INDICATES PADLOCK HASP PROVIDED FOR BREAKER.



1 ONE-LINE DIAGRAM
NO SCALE

IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 17002287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2018 IMEG CORP.

REFERENCE SCALE IN INCHES
0 1 2 3

PRINTED: 1/30/2019 1:14:12 PM

PANEL NAME: A

TYPE: BOLT-ON MOUNTING: RECESSED FED FROM: DP-LIBRARY SCCR: 18,000A LOCATION: MECH CLOSET 104

CONNECTED 42.3 KVA MAIN: 400A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 DEMAND: 39.06 KVA

Panel Notes:

Table with columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, A, B, C, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO. Includes rows for receptacles, lighting, and future elec heat.

Key: *P = PADLOCK HASP

PANEL NAME: C

TYPE: BOLT-ON MOUNTING: SURFACE FED FROM: DP-LIBRARY SCCR: 30,000A LOCATION: LIBRARY MECH. 001

CONNECTED 50.4 KVA MAIN: 400A MLO VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 DEMAND: 50.4 KVA

Panel Notes:

Table with columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, A, B, C, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO. Includes rows for WCCU-100 #10 WIRE, AHU-1 HEAT WHEEL, and various spares.

Key: *P = PADLOCK HASP

PANEL NAME: B

TYPE: BOLT-ON MOUNTING: SURFACE FED FROM: DP-LIBRARY SCCR: 18,000A LOCATION: IT ROOM 129

CONNECTED 131.1 KVA MAIN: 400A MCB VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 DEMAND: 120.97 KVA

Panel Notes:

Table with columns: CKT NO., LOAD DESCRIPTION, OVERCURRENT PROTECTION AMPS, A, B, C, OVERCURRENT PROTECTION AMPS, LOAD DESCRIPTION, CKT NO. Includes rows for receptacles, lighting, and various spares.

Key: *G = GFCI BREAKER



301 N Broom St., Suite 100 Madison, WI 53703 P: 608-819-0260

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. are instruments of service that remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright therein.

© 2017 OPN Architects, Inc.



MADISON PUBLIC LIBRARY



MADISON PUBLIC LIBRARY

Foundation

Project PINNEY NEIGHBORHOOD LIBRARY 516 COTTAGE GROVE ROAD MADISON, WI

MEGT Engineer



1800 DEMING WAY, SUITE 200 MADISON, WI 53562 P. 608.223.9600 F. 608.223.9601

Key Plan

Revision Date

AC008NDM-02 01/30/2019

City Contract No. 7662

OPN Project No. 17609000

Sheet Issue Date BID DOCUMENTS 11/30/2018

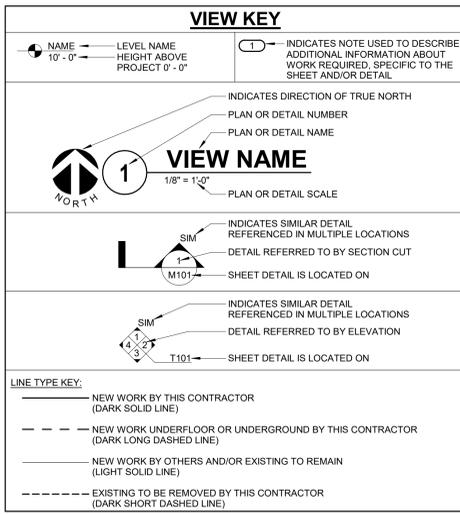
Sheet Name ELECTRICAL PANEL SCHEDULES

Sheet Number

IMEG logo and contact information: 1800 DEMING WAY, SUITE 200 MADISON, WI 53562 608.223.9600 FAX: 608.836.0415 www.imegcorp.com PROJECT # 1702287.00



PRINTED: 1/30/2019 3:23:05 PM



CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT TAG:	DESCRIPTION:	NOTE:
CR	AC-CR-W	ACCESS CONTROL CREDENTIAL READER	2.
CS	AV-CR-W	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	
CM	AV-CM1-W	AUDIO/VIDEO CONFERENCE CAMERA - TYPE 1	
MP	AV-MP-C	MICROPHONE (CEILING) TYPE 2	
RS	AV-RS-W	ROOM SCHEDULER (WALL) - TYPE 1	
SP	AV-SP1-C	PERFORMANCE AUDIO SPEAKER (CEILING) - TYPE 1	
SP1	AV-SP1-W	PERFORMANCE AUDIO SPEAKER (WALL) - TYPE 1	
TP	AV-TP-W	AUDIO/VIDEO TOUCH PANEL (WALL)	
WP	AV-WP1-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 1	
CF-WAP	SC-IO-CWAP	WIRELESS ACCESS POINT INFORMATION OUTLET (CEILING)	1.
CF	SC-IO-C	INFORMATION OUTLET (CEILING)	1.
CF	SC-IO-W	INFORMATION OUTLET (WALL)	1.
CF	SC-IO-F	INFORMATION OUTLET (FLOOR)	1., 4.
CF	N/A	ELECTRICAL FLOOR BOX WITH TECHNOLOGY	1., 4.
HH	N/A	HANDHOLE	
CAM	# - # - #	CLOSED CIRCUIT TELEVISION (CCTV) SURFACE CAMERA	3.
CAM	# - # - #	CLOSED CIRCUIT TELEVISION (CCTV) CEILING CAMERA	3.

	CABLE TRAY, CHANNEL TRAY, BASKET TRAY
	LADDER RACK
	CONDUIT
	CONDUIT DOWN
	CONDUIT UP OR UP/DOWN
	CONDUIT SLEEVE
	CONTINUATION

- ### GENERAL NOTES:
- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
 - ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
 - ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
- ### TECHNOLOGY SYMBOL NOTES:
- "CF" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.
 - REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE ON T601 FOR ADDITIONAL INFORMATION.
 - REFER TO INDIVIDUAL CAMERA (CCTV) REQUIREMENTS SCHEDULE ON T601 AND CCTV CAMERA TYPE SCHEDULE ON T601 FOR ADDITIONAL INFORMATION. SYMBOL SUBSCRIPT INDICATES FLOOR NUMBER-CAMERA NUMBER. A CAMERA HEIGHT IDENTIFIES THE HEIGHT FROM THE FLOOR TO THE CENTER OF THE CAMERA LENS. NO HEIGHT REFERS TO MOUNTING THE CAMERA ON THE CEILING. REFER TO THE INDIVIDUAL CAMERA SCHEDULE AND THE INDIVIDUAL CAMERA TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
 - INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "CF" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO THE TECHNOLOGY FLOOR PLANS AND GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON SHEET T602 FOR ADDITIONAL INFORMATION.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM
OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOf	OWNER FURNISHED, OWNER INSTALLED
CFCl	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
HH	HANDHOLE

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3, 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	T.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM. REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7, 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE.
- FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
MC-1	1/T300	1/T101	129

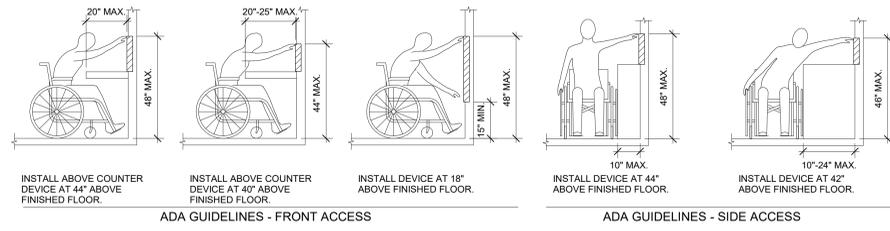
- ### TECHNOLOGY GENERAL NOTES:
- ###-### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT TAG"
 - REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
 - H MOUNT ORIENTED HORIZONTALLY
 - L MOUNT IN CASEWORK
 - M MOUNT IN MODULAR FURNITURE
 - S MOUNT IN SURFACE RACEWAY
- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

- ### TECHNOLOGY INSTALLATION NOTES:
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
 - CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
 - BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
 - VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
 - TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
 - ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E-814 TO ALLOW FOR THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
 - REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
 - ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 27 05 28 AND 27 11 00 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.
 - FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

- ### TECHNOLOGY OUTSIDE PLANT NOTES
- THE LOCATION OF THE CONDUIT, HAND HOLES, AND MAINTENANCE HOLES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIVATE AND/OR PUBLIC PRIOR TO THE INSTALLATION OF THE COMPONENT. FIELD COORDINATE THE FINAL LOCATION WITH THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
 - POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES, IF APPLICABLE, SHALL BE INCLUDED IN THE CONTRACTOR'S BID. CONTRACTOR IS RESPONSIBLE FOR FINAL PLACEMENT OF HANDHOLES MAINTENANCE HOLES AND SHALL NOTIFY THE ENGINEER OF FINAL LOCATIONS PRIOR TO INSTALLATION.
 - HAND HOLES MAINTENANCE HOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE GROUND LINE.
 - REMOVAL AND REPLACEMENT OF THE EXISTING UNDERGROUND UTILITIES THAT ARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
 - CONTRACTOR SHALL INCLUDE WITHIN THEIR BID ANY REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, GRASS, SHRUBS, TREES, ETC. THAT WILL BE IMPACTED BY THE INSTALLATION OF THE NEW CONDUITS SHOWN ON THE DRAWINGS. IF TREES ARE REQUIRED TO BE REMOVED THE CONTRACTOR SHALL CONTACT THE OWNER AND DISCUSS OPTIONS PRIOR TO CUTTING DOWN ANY TREE OR SHRUB OVER 6' IN HEIGHT.
 - NO ADDITIONAL COST SHALL BE APPROVED FOR PLACING CONDUITS DEEPER THAN REQUIRED MINIMUM DEPTH TO AVOID EXISTING UNDERGROUND UTILITIES.
 - PROVIDE A MINIMUM OF 25-0" SLACK LOOP WITHIN EACH HAND HOLE MAINTENANCE HOLES. SLACK LOOP SHALL BE SECURE SO COPPER OR FIBER IS NOT RESTING ON EARTH AFTER FINAL INSTALLATION.

TECHNOLOGY SHEET INDEX

T000	TECHNOLOGY COVER SHEET
T050	SITE PLAN - TECHNOLOGY
T100	LEVEL 0 FLOOR PLAN - WEST - TECHNOLOGY
T101	LEVEL 1 FLOOR PLAN - TECHNOLOGY
T300	ENLARGED PLANS - TECHNOLOGY
T400	TECHNOLOGY DETAILS
T500	TECHNOLOGY DIAGRAMS
T501	TECHNOLOGY DIAGRAMS
T502	TECHNOLOGY DIAGRAMS
T600	TECHNOLOGY SCHEDULES
T601	TECHNOLOGY SCHEDULES
T602	GENERAL TECHNOLOGY EQUIPMENT SCHEDULE



ADA STANDARDS FOR ACCESSIBLE DESIGN

1800 DEMING WAY, SUITE 200
MADISON, WI 53703
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 1702287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2018 IMEG CORP.

REFERENCE SCALE IN INCHES

301 N. Broom St., Suite 100
Madison, WI 53703
P: 608-819-0260

www.opnarchitects.com

OPN ARCHITECTS, INC. IS AN INSTRUMENT OF SERVICE THAT REMAINS THE PROPERTY OF OPN ARCHITECTS, INC. OPN ARCHITECTS, INC. SHALL RETAIN ALL COPYRIGHT, TRADEMARK AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT HEREIN.

© 2017 OPN Architects, Inc.

City Contract No. **7662**

OPN Project No. **17609000**

Sheet Issue Date **BID DOCUMENTS 11/30/2018**

Sheet Name **TECHNOLOGY COVER SHEET**

Sheet Number **T000**

Project **PINNEY NEIGHBORHOOD LIBRARY**
516 COTTAGE GROVE ROAD
MADISON, WI

MERT Engineer

1800 DEMING WAY, SUITE 200
MADISON, WI 53762
P. 608.223.9600
F. 608.223.9601

Revision _____ Date _____

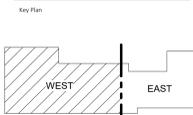
AC008204-02 01/30/2019



Project
PINNEY NEIGHBORHOOD LIBRARY
516 COTTAGE GROVE ROAD
MADISON, WI



1800 DEMING WAY, SUITE 200
MADISON, WI 53562
P. 608.223.9600
F. 608.223.9601



Revision	Date
ADDENDUM 02	01/30/2019

City Contract No.
7662

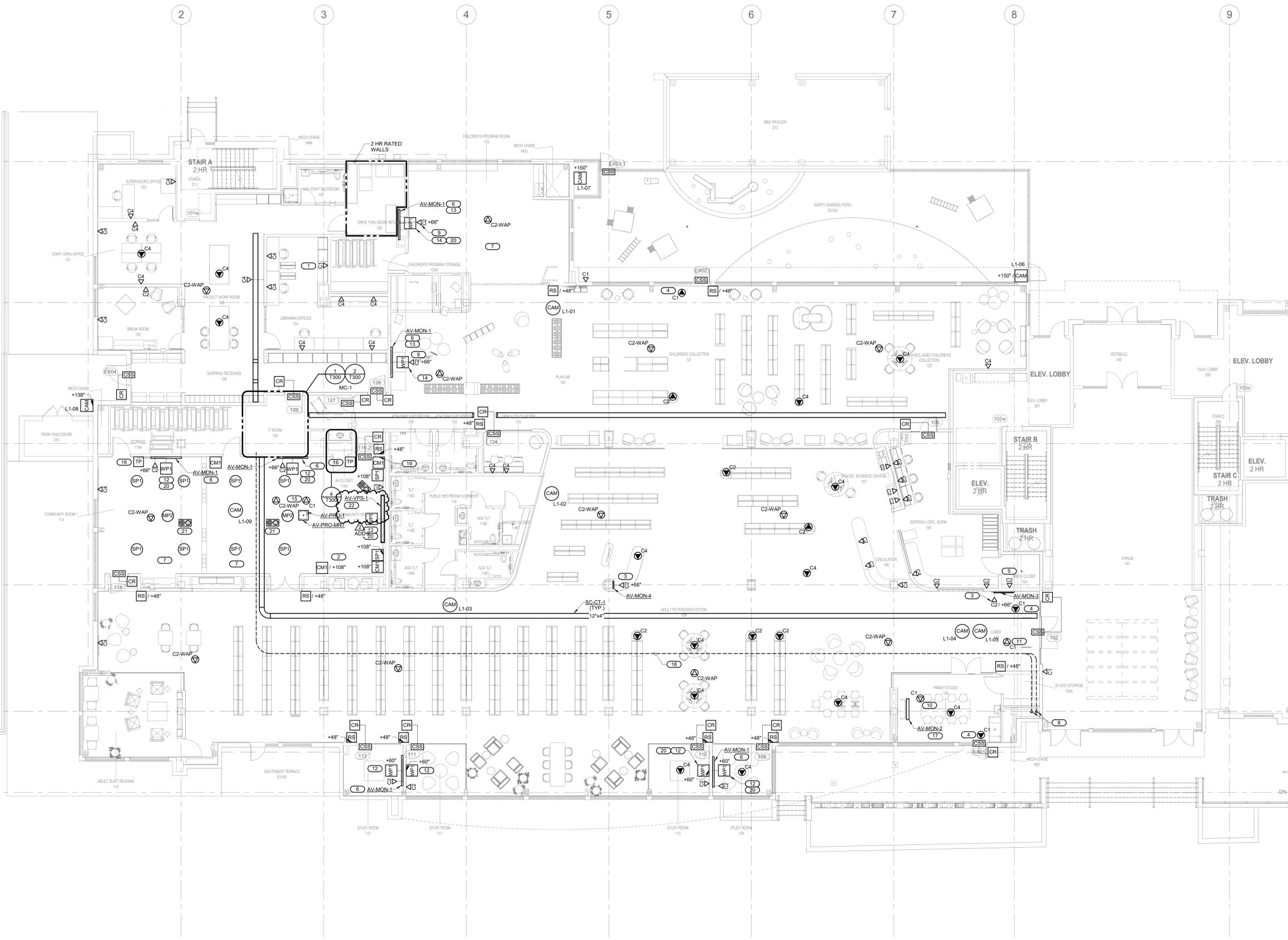
OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
LEVEL 1 FLOOR PLAN - TECHNOLOGY

Sheet Number
T101

- GENERAL NOTES:**
- ALL INFORMATION OUTLETS THIS SHEET ARE FED FROM MC-1 UNLESS NOTED OTHERWISE. REFER TO SHEET T600 FOR INFORMATION OUTLET SCHEDULE.
 - CABLES ROUTED THROUGH RAISED FLOOR MUST BE FIELD COORDINATED WITH OTHER TRADE ROUTING UNDER FLOOR PRIOR TO INSTALLATION.
 - REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON SHEET T602 FOR ADDITIONAL INFORMATION.
 - PROVIDE DATA OUTLETS AND ALL CABLING WITHIN ALL SYSTEMS FURNITURE AT APPROXIMATE LOCATIONS AS INDICATED.
- KEYNOTES: (#)**
- INFORMATION OUTLET PROVIDED FOR ACCESS CONTROL WORK STATION.
 - LOCATE OWNER PROVIDED CRESTRON AIR MEDIA DEVICE IN THIS ROOM.
 - INFORMATION OUTLET FOR DIGITAL SIGNAGE MONITOR.
 - INFORMATION OUTLET FOR EXIT GATES. FIELD COORDINATE LOCATION WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.
 - INFORMATION OUTLET FOR HVAC CONNECTION. FIELD COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND ELEVATION OF OUTLET.
 - PROVIDE MONITOR WITH AV-RX2 AND ARTICULATING MOUNT, AV-MON-3. REFER TO ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR COORDINATION OF MOUNTING ELEVATION.
 - PROVIDE ASSISTED LISTENING SYSTEM AV-ANT-W WITHIN THIS ROOM.
 - PROVIDE (2) CORDON SLEEVES UNDER RAISED FLOOR FOR INCOMING TEL CO SERVICE. FIELD COORDINATE EXACT LOCATION WITH OTHER TRADE WORK UNDER FLOOR. CAP AND SEAL UNUSED SLEEVE FOR FUTURE USE. REFER TO SHEET T100 FOR CONTINUATION.
 - INSTALL INFORMATION OUTLET IN WP1 RECESSED AV WALL BOX. AV BOX PROVIDED TO E.C. FOR INSTALLATION BY DIVISION 27 CONTRACTOR. REFER TO GIES FOR ADDITIONAL INFORMATION.
 - OUTLET PROVIDED FOR FUTURE PROJECTOR. INCLUDE ADDITIONAL 5' SLACK LOOP AND COORDINATE FINAL MOUNTING LOCATION WITH OWNER.
 - INFORMATION OUTLET PROVIDED FOR OWNER PROVIDED COUNTING SENSOR. TERMINATE CABLE AT OUTLET END WITH RJ45 MALE PLUG. PROVIDE CABLE WITH ADDITIONAL 5' SLACK LOOP. FIELD COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
 - INSTALL CS OUTLET IN WP1 BOX. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR OUTLET CONFIGURATION. REFER TO ARCHITECTURAL DRAWING A310 FOR ADDITIONAL MOUNTING DETAILS AND INFORMATION.
 - PROVIDE MONITOR WITH SOUND BAR INCLUDED.
 - PROVIDE C2 OUTLET IN RECESSED AV BOX.
 - PROVIDE INFORMATION OUTLET FOR PROJECTOR CONNECTION TO LOCAL AREA NETWORK. FIELD COORDINATE EXACT MOUNTING WITH PROJECTOR MOUNT.
 - REFER TO ELECTRICAL DRAWINGS AND COORDINATE TOUCH PANEL MOUNTING WITH LIGHTING CONTRACTOR.
 - PROVIDE MONITOR WITH AV-RX2 AND MOBILE CART. CHIEF MODEL LPAUB OR PRE-APPROVED EQUAL.
 - ROUTE FIBER TO IT ROOM 126. FIELD COORDINATE FIBER PATH WITH UNDERFLOOR PEDESTALS, I.E. SHORTEST PATH MAY NOT WORK.
 - PROVIDE (1) CATEGORY 6 CABLE WITH (1) SDI CABLE. ROUTE CABLES BACK TO IT ROOM (129).
 - PROVIDE WP2 IN WP1 WALL BOX. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON SHEET T602 FOR ADDITIONAL INFORMATION.
 - FLOOR BOX PROVIDED BY E.C. FOR FUTURE USE.
 - REFER TO DETAIL 3/7502 FOR PROJECTOR SCREEN DETAILS.



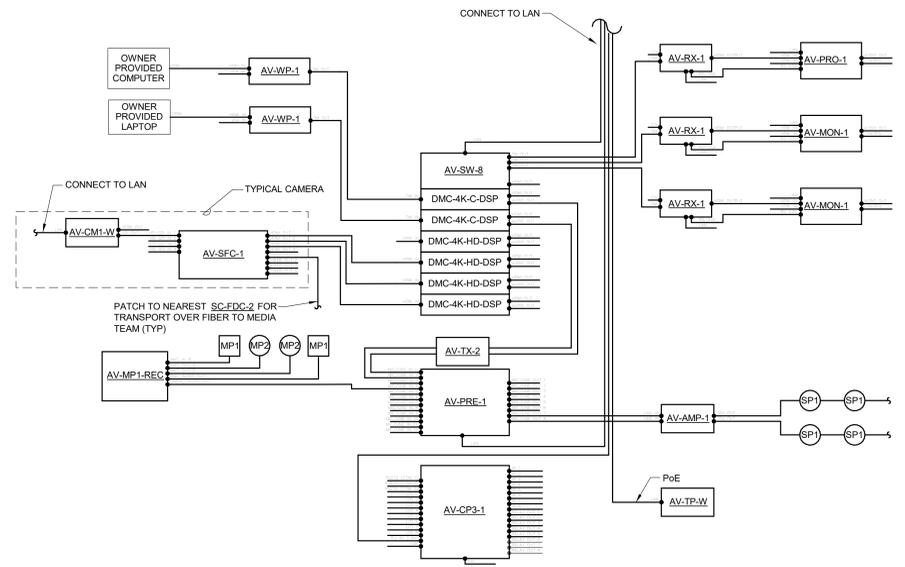
1 LEVEL 1 FLOOR PLAN - TECHNOLOGY
1/8" = 1'-0"

IMEG
1800 DEMING WAY, SUITE 200
MADISON, WI 53562
608.223.9600 FAX: 608.836.0415
www.imegcorp.com
PROJECT # 17002287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA WORKS PRODUCED. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. © 2018 IMEG CORP.

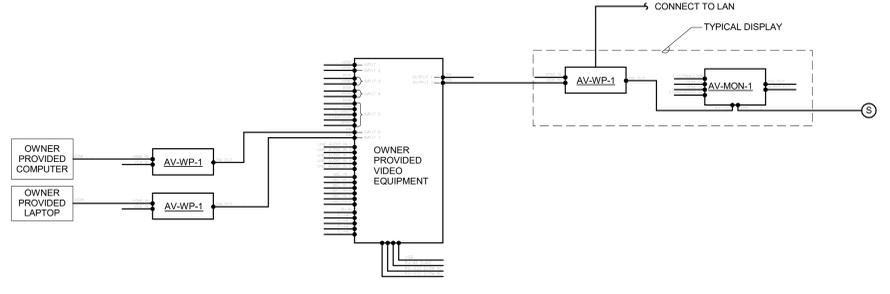
REFERENCE SCALE IN INCHES
0 2 4

U
—
T
—
S
—
R
—
Q
—
P
—
N
—
M
—
L
—
K
—
J
—
H
—
G
—
F
—
E
—
D
—
C
—
B
—
A



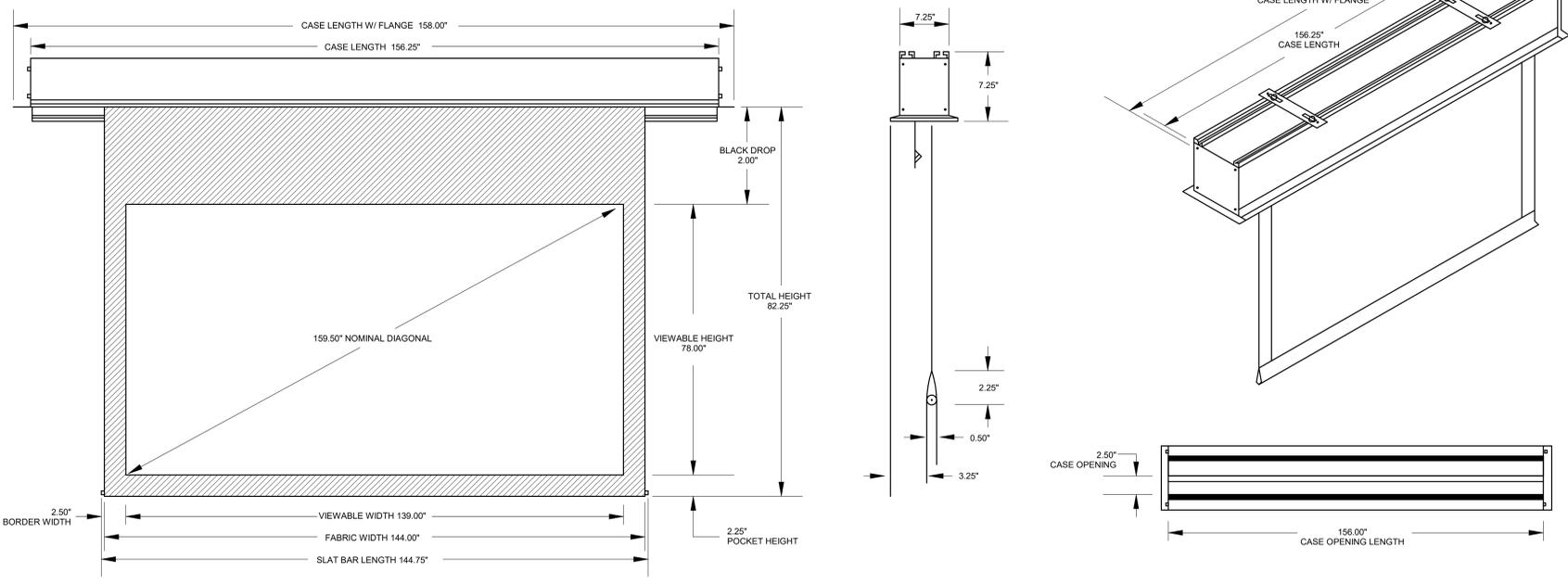
1 COMMUNITY ROOM AV RISER DIAGRAM

NO SCALE
 NOTES:
 1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
 2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.



2 TYPICAL AV RISER DIAGRAM

NO SCALE
 NOTES:
 1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. DEVICES SHOWN ARE TYPICAL OF THE DEVICES IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR ACTUAL QUANTITIES OF DEVICES.
 2. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T602 FOR ADDITIONAL INFORMATION.
 KEYNOTES:
 1. SPEAKER OR SOUNDBAR FURNISHED WITH MONITOR.



3 PROJECTOR SCREEN DETAIL

NO SCALE

IMEG
 1800 DEMING WAY, SUITE 200
 MADISON, WI 53705
 608.223.9600 FAX: 608.836.0415
 www.imegcorp.com
 PROJECT # 17002287.00

IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP.
 © 2018 IMEG CORP.

REFERENCE SCALE IN INCHES
 0 1 2 3

301 N Broom St., Suite 100
 Madison, WI 53703
 P: 608-819-0260
 www.opnarchitects.com
 All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. are instruments of service that remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright therein.
 © 2017 OPN Architects, Inc.



MADISON PUBLIC LIBRARY



MADISON PUBLIC LIBRARY Foundation

Project
PINNEY NEIGHBORHOOD LIBRARY
 516 COTTAGE GROVE ROAD
 MADISON, WI

MERT Engineer



1800 DEMING WAY, SUITE 200
 MADISON, WI 53762
 P. 608.223.9600
 F. 608.223.9601

Key Plan

Revision	Date
ADDENDUM 02	01/30/2019

City Contract No.
7662

OPN Project No.
17609000

Sheet Issue Date
BID DOCUMENTS 11/30/2018

Sheet Name
TECHNOLOGY DIAGRAMS

Sheet Number
T502

PRINTED: 1/30/2019 3:23:29 PM

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

Table with columns: EQUIPMENT TAG, EQUIPMENT LIST DESCRIPTION, EQUIPMENT LIST MANUFACTURER AND MODEL. Rows include items like AC-CR-W, AC-PSP-1, AC-SEC-1, AV-AMP-1, AV-ANT-W, AV-AT-1, AV-CAB-W, AV-CM1-W, AV-CP3-1, AV-DC-S, AV-DMP-1, AV-MC-1, AV-MNT-1, AV-MNT-2, AV-MNT-3, AV-MNT-4, AV-MON-1, AV-MON-2, AV-MON-3, AV-MON-4, AV-MP1-REC, AV-MP1-S, AV-MP2-C, AV-PRE-1, AV-PRO-1, AV-PRO-MNT, AV-RS-W, AV-RX-1, AV-RX-2, AV-SFC-1, AV-SP1-C, AV-SP1-W, AV-SW-8, AV-TP-W.

GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

Table with columns: EQUIPMENT TAG, EQUIPMENT LIST DESCRIPTION, EQUIPMENT LIST MANUFACTURER AND MODEL. Rows include items like AV-TV-1, AV-FX-2, AV-VCC-1, AV-VPS-1, AV-WVP-1, AV-WMA-1, AV-WP1-W, SC-CPW-1, SC-CT-1, SC-ER-1, SC-FDC-1, SC-GND-1, SC-GND-2, SC-HWM-1, SC-IO-C, SC-IO-CWAP, SC-IO-F, SC-IO-W, SC-LR-1, SC-MPP-1, SC-MPP-2, SC-TTB-1.



301 N Broom St., Suite 100 Madison, WI 53703 P: 608-819-0260

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. are instruments of service that remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all copyright law, statutory and other reserved rights, including the copyright therein.



Pinney Neighborhood Library 516 Cottage Grove Road Madison, WI



1800 DEMING WAY, SUITE 200 MADISON, WI 53562 P. 608.223.9600 F. 608.223.9601

Key Plan

Revision Date 4008090402 01/30/2019

City Contract No. 7662

OPN Project No. 17609000

Sheet Name BID DOCUMENTS 11/30/2018

Sheet Number GENERAL TECHNOLOGY EQUIPMENT SCHEDULE

Sheet Number

IMEG logo and contact information: 1800 DEMING WAY, SUITE 200 MADISON, WI 53562 608.223.9600 FAX: 608.836.0415 www.imegcorp.com PROJECT # 1700287.00