SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
	LED FIXTURE
	LED FIXTURE; WALL OUTLET
	CEILING LIGHTING FIXTURE OUTLET
	WALL LIGHTING FIXTURE OUTLET
	SINGLE REMOTE EMERGENCY LIGHTING HEAD, SURFACE MOUNTED
	TWIN REMOTE EMERGENCY LIGHTING HEAD, SURFACE MOUNTED
	EMERGENCY LIGHTING BATTERY UNIT, NUMBER OF HEADS AS INDICATED
	EXIT SIGN, ILLUMINATED, CEILING MOUNTED, NUMBER OF SIDES AS INDICATED, (DIRECTIONAL ARROWS AS INDICATED)
	EXIT SIGN, ILLUMINATED, SURFACE MOUNTED, NUMBER OF SIDES AS INDICATED, (DIRECTIONAL ARROWS AS INDICATED)
	EXIT SIGN WITH REMOTE HEADS
OC	OCCUPANCY SENSOR, CEILING MOUNTED
RC	ROOM CONTROLLER
ELCR	EMERGENCY LIGHTING CONTROL RELAY
S_{OC}	LINE VOLTAGE OCCUPANCY SENSOR, WALL MOUNTED
S_{LV}	LOW VOLTAGE SWITCH
S_{LVD}	LOW VOLTAGE DIMMER SWITCH
S	SINGLE POLE SWITCH, HUBBELL 1221
S_{T}	MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOADS SQUARE D CLASS 2510
S_{M}	MANUAL MOTOR STARTER, SINGLE POLE WITHOUT OVERLOADS
	RECEPTACLE, DUPLEX 20A/125V/2P/3W UNLESS AMPS ARE INDICATED, GROUNDING
$_{GFI}$	RECEPTACLE, DUPLEX 20A/125V/2P/3W GROUNDING, GROUND FAULT INTERRUPTER
$_{C}$	'C' INDICATES RECEPTACLE TO BE MOUNTED ABOVE COUNTER
$_{48"}$	NUMBER INDICATES MOUNTING HEIGHT ABOVE FLOOR
$_{TR}$	TAMPER RESISTANT DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS INDICATED
	RECEPTACLES, TWO DUPLEX MOUNTED IN A DOUBLE GANG BOX
	COMBINATION TELEPHONE/DATA WALL OUTLET, EXTEND 1" CONDUIT UP WALL AND STUB OUT ABOVE ACCESSIBLE CEILING
	COMBINATION TELEPHONE AND RECEPTACLE OUTLET 20A/125V/2P/3W GROUNDING, RECESSED FLOOR MOUNTED.
	PANELBOARD – 120/240 VOLT/1 PHASE/3 WIRE
J	JUNCTION BOX
$_{TS}$	TIME SWITCH
	DISCONNECT SWITCH, FUSED OR NON-FUSED AS INDICATED SQUARE D, HEAVY DUTY, CLASS R FUSEHOLDERS
C	CAMERA W/1" CONCUIT TO ABOVE ACCESSIBLE CEILING
KB	KNOX BOX TYPE 3200 SERIES
———	CONDUIT RUN CONCEALED IN WALL OR CEILING
– – – – –	CONDUIT RUN UNDERGROUND OR UNDERFLOOR
———►	HOMERUN TO PANEL
—— E ——	EMERGENCY WIRING
<E>	EXISTING
<ER>	EXISTING, RELOCATED, REINSTALLED
EWC	ELECTRIC WATER COOLER
WP	WEATHERPROOF

NOTE: SYMBOL SCHEDULE IS GENERIC – NOT ALL SYMBOLS ARE USED ON PROJECT.

GENERAL NOTES:

DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED BUT MAY NOT INDICATE ALL BENDS, FITTINGS, OBSTRUCTIONS, AND SUPPORTS REQUIRED TO MEET EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS, INSTALLATION REQUIREMENTS, AND DIMENSIONS BEFORE PROCEEDING WITH WORK.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NEC, & NFPA-70 AND ALL OTHER PERTAINING CODES AND REGULATIONS ESTABLISHED BY AUTHORITIES HAVING JURISDICTION, AND SHALL MEET THE REQUIREMENTS OF OTHER RECOGNIZED STANDARDS AS THE ASTM, IEEE, NFPA, AND NEMA, WHERE THE REQUIREMENTS OF SUCH STANDARDS ARE MORE STRINGENT THAN THOSE CITED ABOVE.

ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER, FULLY OPERATIVE, AND TO THE ACCEPTANCE OF THE OWNER AND THE ENGINEER.

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS NOTED OTHERWISE AND SHALL BE APPROVED BY U.L. AND SHALL BEAR THE U.L. LABEL.

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES SO THAT INTERFERENCE BETWEEN CONDUITS, PIPING AND STRUCTURAL WORK WILL BE AVOIDED.

THE CONTRACTOR SHALL HAVE VISITED THE JOB SITE BEFORE BIDDING AND ASCERTAINED ALL EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY IN THE EVENT THAT THE EXISTING CONDITIONS RESULT IN EXTRA MATERIALS OR LABOR.

ALL REFERENCE TO EXISTING FIELD CONDITIONS HAVE BEEN TAKEN FROM "AS-BUILT" DRAWINGS. CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS AND MARK ON FINAL "AS-BUILT" DRAWINGS.

INSPECT THE JOB SITE PRIOR TO SUBMITTING A BID AND MAKE ALLOWANCE FOR EXISTING CONDITIONS WHICH MAY AFFECT THE WORK AND ARRANGE FOR AND PAY FOR TESTS AND INSPECTIONS, AND GIVE NOTICES REQUIRED BY ANY AND ALL LAWS, RULES, REGULATIONS, AND ORDINANCES WHICH PERTAIN TO THIS WORK, WHERE ADDITIONS OR ALTERATIONS ARE REQUIRED IN OR AT EXISTING ELECTRICAL INSTALLATION AS INDICATED.

a. INFORMATION GIVEN ON THE DRAWINGS REGARDING EXISTING INSTALLATIONS OR CONDITIONS HAS BEEN OBTAINED FROM THE BEST SOURCES AVAILABLE BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH ANY NEW WORK THAT MAY BE AFFECTED. INCLUDE AS A PART OF THE CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.

b. RELOCATE AND/OR RECONNECT EXISTING CIRCUIT WHERE CONTINUITY HAS BEEN AFFECTED OR AS MAY BE REQUIRED TO PROVIDE FOR NEW CONSTRUCTION.

ANY EXISTING CONDITION FOUND BY THE CONTRACTOR WHICH WILL ADVERSELY AFFECT THE WORK SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR THE ENGINEER.

ELECTRICAL CONTRACTOR SHALL PERFORM ANY NECESSARY WORK FOR A COMPLETE ELECTRICAL INSTALLATION AND SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND SPECIAL APPARATUS TO CONDUCT ANY TEST THAT MAY BE REQUIRED TO INSURE THE SYSTEMS ARE FREE OF ALL IMPROPER GROUNDS AND SHORT CIRCUITS, AND THAT ALL FEEDERS ARE PROPERLY BALANCED.

AFTER THE SYSTEM IS INSTALLED CONTRACTOR SHALL CONDUCT AN OPERATIVE TEST FOR APPROVAL AND ACCEPTANCE BY THE OWNER. EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP.

ALL GROUND CONNECTIONS TO BE DONE AS PER THE 2020 EDITION OF NATIONAL ELECTRICAL CODE.

CONTRACTOR SHALL COORDINATE WITH THE OWNER THE INSTALLATION OF ANY ADDITIONAL SYSTEM TO BE PROVIDED BY HIMSELF OR BY OTHERS, SUCH AS ALARM SYSTEM, INTERCOM SYSTEM, ETC.

IF MORE THAN THREE PHASE CONDUCTORS ARE INSTALLED IN ONE CONDUIT UNLESS NOTED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS AND INCREASING CONDUCTOR SIZE PER THE N.E.C.

PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR 120V BRANCH CIRCUIT.

MAINTAIN N.E.C. MINIMUM CLEARANCE AND ADEQUATE ILLUMINATION IN FRONT OF ALL SAFETY SWITCHES, PANELBOARDS, AND OTHER ELECTRICAL EQUIPMENT. DETERMINE PROPER CLEARANCE BEFORE INSTALLATION. DIMENSIONS OF EQUIPMENT SHOWN ARE BASED ON A PARTICULAR MANUFACTURER. IF DIMENSIONS OF EQUIPMENT FURNISHED DIFFER FROM THOSE ON THE DRAWINGS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EQUIPMENT FITS IN THE ROOM OR SPACE ALLOCATED WITH PROPER CLEARANCE.

IN ALL ROOMS WITHOUT FINISHED CEILINGS INSTALL ALL ELECTRICAL CONDUITS AS CLOSE TO THE STRUCTURAL CEILING AS POSSIBLE.

ALL CONDUIT SIZES ARE BASED ON ELECTRICAL METALLIC TUBING (EMT) WITH TYPE THHN/THWN COPPER CONDUCTORS. ADJUST CONDUIT SIZE AS REQUIRED FOR OTHER CONDUIT MATERIALS AND CONDUCTOR TYPES.

WHERE CONDUIT IS ROUTED ABOVE THE FINISHED CEILING, COORDINATE LOCATION AND ROUTING WITH OTHER TRADES AND SYSTEMS TO PROVIDE A COORDINATED INSTALLATION AND TO ASSURE MAXIMUM ACCESSIBILITY TO ALL SYSTEMS. ALL JUNCTION BOXES AND PULL BOXES SHALL REMAIN ACCESSIBLE.

PROVIDE WEATHERPROOF SEAL TO ALL EXTERIOR PENETRATION.

CONTRACTOR MUST VERIFY AND COORDINATE ALL MOUNTING HEIGHTS OF ALL DEVICES MOUNTED IN CASEWORK OR IN OR ABOVE COUNTERS WITH SPECIFIC EQUIPMENT FURNISHED.

DO NOT MOUNT ELECTRICAL OR COMMUNICATIONS DEVICES, OUTLETS, OR BOXES BACK TO BACK UNLESS SPECIFICALLY INDICATED OTHERWISE NOTED. OFFSET OUTLETS OR BOXES IN OPPOSITE SIDES OF THE WALL BY AT LEAST ONE STUD CAVITY.

OUTLETS SHALL BE FLUSHED WITH FINISHED SURFACES. TWO OR MORE LIGHT SWITCHES IN SAME WALL SHALL BE INSTALLED IN GANG-TYPE BOXES.

JUNCTION BOXES SHALL BE GALVANIZED STEEL WITH SCREW OR HINGED COVERS FOR INDOOR LOCATIONS AND WEATHER-PROOF WHERE EXPOSED TO WEATHER. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.

ALL ELECTRICAL DEVICES AND EQUIPMENT THAT ARE INSTALLED ON EXTERIOR LOCATION SHALL BE RATED FOR WET LOCATION AND WEATHERPROOF.

GENERAL NOTES (CONTINUED):

COORDINATE WITH ALL MECHANICAL TRADES FOR SPACE REQUIREMENTS IN MECHANICAL ROOMS, CORRIDORS, SHAFTS, ABOVE CEILING, ETC. THIS INCLUDES SPACE ABOVE PANELS WHERE DUCTS AND PIPING ARE PROHIBITED.

FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.

WHERE DEVICES ARE INDICATED TO BE MOUNTED ABOVE A COUNTERTOP, MOUNT DEVICE SUCH THAT BOTTOM OF THE COVER PLATE IS 2" ABOVE TOP OF BACK SPLASH. IF THERE IS NO BACK SPLASH, MOUNT DEVICE 2" ABOVE FINISHED COUNTER TOP SURFACE TO BOTTOM OF DEVICE COVER PLATE.

ALL EXPOSED POWER AND COMMUNICATION/DATA CONDUIT SHALL BE ROUTED PARALLEL TO BUILDING LINES. INSTALL ALL CONDUITS PLUMB AND LEVEL WHERE EXPOSED TO VIEW.

ALL EMPTY CONDUITS SHALL BE INSTALLED WITH A PULL STRING.

PRIOR TO ROUGH-IN OF COMMUNICATION AND ELECTRICAL OUTLETS COORDINATE WITH OWNER FOR FINAL LOCATIONS.

REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF ALL THERMOSTATS, TEMPERATURE, AND HUMIDITY SENSORS. PROVIDE CONDUIT AND BACK BOX SIZE AS REQUIRED FOR ALL HVAC CONTROLS. CONDUIT FOR LOW VOLTAGE CONTROLS SHALL TERMINATE AT STRUCTURE ABOVE WITH BUSHING. CONDUIT SYSTEM FOR LINE VOLTAGE CONTROLS SHALL ROUTE CONTINUOUS TO EQUIPMENT SERVED.

THE LOCATION OF FIXTURES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, MACHINE ROOMS, ETC. ARE SHOWN FOR BID PURPOSES ONLY. FIXTURES SHALL BE INSTALLED SO AS TO COORDINATE WITH ALL TRADES AND SHALL BE MOUNTED WITH THE CONTROL DEVICE DIRECTLY IN LINE ABOVE THE SWITCH.

SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ADJUST MOUNTING HEIGHTS FOR CEILING MOUNTED EXIT SIGNS AS REQUIRED TO PROVIDE PROPER VISIBILITY. PROVIDE PENDANTS WHERE REQUIRED TO LOWER MOUNTING HEIGHTS AS REQUIRED TO COORDINATE WITH DROP SOFFITS THAT MAY OBSCURE THE EXIT SIGNS.

COORDINATE FINAL LOCATION OF ALL CEILING MOUNTED OCCUPANCY SENSORS SUCH THAT THEY ARE LOCATED AT LEAST 4'-0" AWAY FROM ANY SUPPLY OR RETURN HVAC DIFFUSER.

REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES INCLUDING LENGTHS AND LOCATIONS OF LED ACCENT LIGHTS. COORDINATE DIMMER AND CONTROL LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

PROVIDE AIMING OF ALL ADJUSTABLE LIGHT FIXTURES AFTER SETUP IS COMPLETE TO EVENLY ILLUMINATE TABLE SURFACES, WALL DECOR, SIGNAGE, AND EMERGENCY EGRESS PATHS. COORDINATE AIMING OF NORMAL FIXTURES WITH ARCHITECT. REFER TO ARCHITECTURAL EGRESS PATH PLAN FOR AIMING OF EMERGENCY LIGHT FIXTURES.

CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES BE RESOLVED BY THE ARCHITECT AND CONTRACTOR PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTRACTOR SHALL BE HELD FINANCIALLY RESPONSIBLE FOR COMPLYING WITH REQUEST THAT THE ARCHITECT BE CONTACTED IN CASE OF CONFLICT WITH LIGHTING POSITIONS AS INDICATED ON THIS SHEET AND WITH ANY OTHER TRADES.

PROVIDE JUNCTION BOX FOR RELAY PACKS. ALL JUNCTION BOXES CONTAINING ELECTRICAL COMPONENTS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION ABOVE ACCESSIBLE CEILINGS. LABEL EACH JUNCTION BOX CONTAINING ELECTRICAL COMPONENTS TO INDICATE ITS FUNCTION. PROVIDE BOX DIVIDER FOR EACH BOX CONTAINING LINE VOLTAGE AND LOW VOLTAGE WIRING.

IN ROOMS WITH HARD FINISHED CEILINGS, PROVIDE CEILING ACCESS PANEL IMMEDIATELY BELOW THE LOCATION OF JUNCTION BOX CONTAINING ELECTRICAL COMPONENTS. COORDINATE TYPE AND SIZE WITH THE ARCHITECT.

WHEN MULTIPLE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, PROVIDE SWITCHES IN MULTI-GANG FACE PLATE.

PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO PROVIDE ADEQUATE COVERAGE OF CONTROLLED AREA.

LOW VOLTAGE CONTROL WIRING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

ALL LINE VOLTAGE WIRING SHALL BE #12 AWG IN 1/2" CONDUIT (MINIMUM).

ALL LOW VOLTAGE WIRING, INCLUDING 0-10V DIMMING WIRING AND CABLE SHALL BE IN 1/2" CONDUIT.

THE LINE VOLTAGE AND LOW VOLTAGE WIRING SHALL BE SEPARATED IN ACCORDANCE WITH NFPA 70, ARTICLE 725, INCLUDING SEPARATION OF 0-10V AND LINE VOLTAGE WIRING INTERNAL TO A LIGHT FIXTURE.

PROVIDE ALL COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

OCCUPANT SENSOR CONTROLS SHALL BE MANUAL "ON", AUTO "OFF" WITHIN 20 MINUTES AFTER OCCUPANTS HAVE LEFT THE SPACE, UNLESS NOTED OTHERWISE.

ON ALL RECESSED LIGHTING FIXTURES, PROVIDE A MINIMUM OF TWO (2) GALVANIZED STEEL #12 GAUGE HANGER WIRES TO BUILDING STRUCTURE (ALTERNATE CORNERS).

RELOCATE OR PROVIDE ADDITIONAL EXIT LIGHTS AND EMERGENCY BATTERY PACKS WITH DUAL HEADS AS NEEDED TO MEET FIRE MARSHAL'S WALK-THROUGH AND ACCEPTANCE.

CONNECT EXIT LIGHTS, EMERGENCY BATTERY UNITS AND NIGHT LIGHTS (NL) TO THE UNSWITCHED PORTION OF THE LIGHTING CIRCUIT SERVING THE RESPECTED AREA.

DO NOT INSTALL LINE VOLTAGE SENSORS ON GFCI PROTECTED CIRCUITS.

ALL LOW VOLTAGE SYSTEMS ARE BEING HANDLED BY THE TOWNSHIP. CONTRACTOR TO PROVIDE OUTLET BOXES, CONDUIT AND PULLSTRINGS. COORDINATE WITH TOWNSHIP'S LOW VOLTAGE CONTRACTOR AS REQUIRED.

GENERAL NOTES (CONTINUED):

CONNECTIONS TO THE MECHANICAL EQUIPMENT ARE BASED ON A PARTICULAR MANUFACTURER. IF CONNECTIONS TO EQUIPMENT DIFFER FROM THAT SHOWN ON THE DRAWINGS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONNECTIONS AS REQUIRED.

SEE MECHANICAL SCHEDULE ON MECHANICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT. COORDINATE WITH MANUFACTURER'S DATA IN OWNER APPROVED MECHANICAL SUBMITTAL SO TO ENSURE THAT THE BRANCH CIRCUIT AND OVERCURRENT PROTECTION ARE PROPERLY SIZED FOR THE MECHANICAL EQUIPMENT BEING INSTALLED. THE CONTRACTOR SHALL PROVIDE (AT NO ADDITIONAL COST TO OWNER) PROPERLY SIZED ELECTRICAL EQUIPMENT BASED ON THE MANUFACTURER'S DATA IN THE APPROVED MECHANICAL SUBMITTAL. THE CONTRACTING OFFICER MUST APPROVE ANY PROPOSED CHANGES IN THE BRANCH CIRCUIT AND OVERCURRENT PROTECTION.

COORDINATE WITH ALL TRADES FOR SPACE REQUIREMENTS IN MECHANICAL ROOMS, CORRIDORS. SHAFTS, ABOVE CEILINGS, ETC. SPACES ABOVE TELECOMMUNICATIONS RACKS AND/OR CABINETS MUST NOT HAVE PIPES AND/OR CONDUITS IN THEM.

ALL TELECOMMUNICATIONS CONDUITS MUST BE 1" MINIMUM, UNLESS OTHERWISE NOTED.

OUTLET BOXES (VOICE, DATA, TELEPHONE, ETC.) OVER 16 SQUARE INCHES IN SMOKE AND FIRE WALLS MUST BE ENCLOSED WITH A FIVE SIDED ENCLOSURE WITH SAME CONSTRUCTION AS WALL SYSTEM. WHERE OUTLET BOXES ARE ON OPPOSITE SIDES OF A FIRE WALL THERE MUST BE A 24" HORIZONTAL SEPARATION BETWEEN THEM OR BOXES MUST BE PROTECTED WITH UL LISTED FIRE RESISTANT MATERIAL ON 5 SIDES. IF OUTLET BOXES ON PLANS ARE SHOWN AT EXISTING IN FIRE WALLS BUT THERE IS LESS THAN 24" OF SEPARATION, THE CONTRACTOR MUST RELOCATE ONE OR BOTH OUTLETS TO ACHIEVE THE MINIMUM 24" OF SEPARATION REQUIRED.

ALL BONDING AND GROUNDING OF TELECOMMUNICATIONS SYSTEMS MUST BE PER TIA-607. PROVIDE BONDING BUSHINGS ON BOTH ENDS OF ALL CONDUIT.

MOUNTING HEIGHT SCHEDULE

DEVICE/EQUIPMENT	MOUNTING HEIGHT
RECEPTACLES (INTERIOR)	18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
RECEPTACLES (EXTERIOR)	24" ABOVE FINISHED GRADE OR ABOVE ROOF LEVEL
LIGHT SWITCHES	46" ABOVE FINISHED FLOOR
WALL MOUNTED OCCUPANCY SENSOR	46" ABOVE FINISHED FLOOR
EXIT LIGHT	BOTTOM OF EXIT LIGHTS TO BE 4" ABOVE TOP OF DOOR FRAME. MOUNT ADDITIONAL EXIT LIGHTS IN SPACES AT SAME UNIFORM HEIGHT.
EMERGENCY BATTERY PACK	18" BELOW FINISHED CEILING TO BOTTOM
PANELBOARD	TOP PROTECTIVE DEVICE TO BE 72" ABOVE FINISHED FLOOR
PHOTOCONTROL	WALL MOUNTED 6" BELOW SOFFIT
TELEPHONE OUTLET	18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
DATA OUTLET	18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE

NOTES (FOR MOUNTING HEIGHT SCHEDULE):
1. UNLESS INDICATED OTHERWISE, DEVICE MOUNTING HEIGHT ARE TO CENTER LINE OF DEVICE
2. REFER TO FLOOR PLANS FOR DEVICE MOUNTED AT HEIGHTS DIFERING FROM HEIGHTS SCHEDULED. DEVICES INDICATED ON FLOOR PLANS WITH A 'C' NOTATION SHALL BE MOUNTED AT COUNTER HEIGHT. COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. MOUNTING HEIGHTS OF ALL DEVICES SHALL COMPLY WITH ICC/ANSI 117.1-2009. THIS INCLUDES ALL FORWARD AND SIDE REACH REQUIREMENTS FOR BOTH UNOBSTRUCTED AND OBSTRUCTED REACH RANGES AS APPLICABLE.

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ADDITION & RENOVATION FOR
FRANKLIN TOWNSHIP MUNICIPAL
150 CENTURY LANE
FRANKLIN TOWNSHIP, DILLSBURG, PA

SCHEDULES, GENERAL NOTES

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACY M. MORGAN
No. PE 062998

ENGINEER: STACY M. MORGAN PE062998

PROJECT NUMBER:	26083
SCALE:	AS NOTED
DATE:	07/18/2026
DRAWN BY:	BDK/JC
CHECKED BY:	SMM
DATE CHECKED:	06/16/2026

REVISIONS

DATE:	DESCRIPTION:
07/18/2026	CONTRACT DRAWINGS
10/19/2026	ISSUED FOR CONSTRUCTION

E001

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PANEL: A (EXISTING)
BUS RATING: 125A
RATING, VOLTAGE: 120/240V - 1PH -3W
MINIMUM SHORT CIRCUIT RATING: 10,000AIC

LOCATION: OFFICE HALLWAY
MAIN CIRCUIT BREAKER: 125A/2P
MOUNTING: SURFACE
FED FROM: UTILITY

CKT. NO.	TYPE CKT	SERVICE	LOAD (VA) A	LOAD (VA) B	BKR. AMP.	POLES	GFI	GFI	BKR. AMP.	POLES	LOAD (VA) A	LOAD (VA) B	SERVICE	TYPE CKT	CKT. NO.
1	A	MTG. RM. OUTDOOR UNIT			40	2			20	2			SEC. TREAS. ELECT. HEAT	H	2
3	A													H	4
5	H	HEAT (NOTE 1)			20	2			20	2			HALL/FOYER HEAT	H	6
7	H													H	8
9	H	MTG. RM. ELECT. HEAT			20	2			60	2			HEAT PUMP (NOTE 1)	A	10
11	H													A	12
13	A	MTG. RM. INDOOR UNIT			60	2			60	2			WELDER	M	14
15	A													M	16
17		SPARE				1			20	1			LTS. HALLWAY	L	18
19		SPARE				1			20	1			RECEPTACLES	R	20
21		SPARE				1			20	1			RECEPTACLES	R	22
23		SPARE				1		X	20	1			RECEPTACLES	R	24
25		SPARE				1			20	1			LTS. OFFICE	L	26
27		SPARE				1			20	1			LTS. OFFICE	L	28
29		SPARE				1			20	1			RECEPTACLES	R	30
31		SPARE				1				1			SPARE		32
		SUB-TOTAL	0	0							0	0	SUB-TOTAL		

LOAD:	CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD
LIGHTING(L)	0.0 KVA	x	1.00	=	0.0 KVA
RECEPTACLES (R) <10KVA	0.0 KVA	x	1.00	=	0.0 KVA
RECEPTACLES (R) >10KVA	0.0 KVA	x	0.50	=	0.0 KVA
HEATING (H)	0.0 KVA	x	0.80	=	0.0 KVA
A/C (A)	0.0 KVA	x	0.80	=	0.0 KVA
MISC. (M)	0.0 KVA	x	0.50	=	0.0 KVA
KITCHEN EQUIP. (K)	0.0 KVA	x	0.50	=	0.0 KVA
TOTAL:	0.0 KVA			=	0.0 KVA

NOTES:
1. HEAT PUMP AND AIR HANDLER THAT IS SERVING THE OFFICE AREA IS TO BE RE-FED FROM THIS PANEL TO PANEL NE. FIELD COORDINATE THE EXACT CIRCUIT.
2. THIS PANELBOARD IS TO BE REMOVED AND REPLACED.

PANEL: A (NEW)
BUS RATING: 200A
RATING, VOLTAGE: 120/240V - 1PH -3W
MINIMUM SHORT CIRCUIT RATING: 10,000AIC

LOCATION: OFFICE HALLWAY
MAIN LUG ONLY
MOUNTING: FLUSH
FED FROM:DP

CKT. NO.	TYPE CKT	SERVICE	LOAD (VA) A	LOAD (VA) B	BKR. AMP.	POLES	GFCI	GFCI	BKR. AMP.	POLES	LOAD (VA) A	LOAD (VA) B	SERVICE	TYPE CKT	CKT. NO.
1	A	<E> MTG. RM. ODU (NOTE	2400		40	2			20	1		1000	LTG. PARKING LOT	L	2
3	A	1,2)		2400					20	1			REC. MICROWAVE	R	4
5		SPARE			20	1			20	1	900		REC. BREAK ROOM	R	6
7		SPARE			20	1			20	1		200	REC. OSMOSIS DISPEN.	R	8
9		SPARE			20	1			20	1			SPARE		10
11		SPARE			20	1			20	1			SPARE		12
13	A	<E> MTG. RM. IDU (NOTE 1,2)	5760		60	2			60	2	3600		<E> WELDER (NOTE 1,2)	M	14
15	A			5760								3600		M	16
17	L	LTS. OUTSIDE	254		20	1			30	2	2250		WATER HEATER	M	18
19	R	REC. FILE, HALL, JAN		1260	20	1						2250		M	20
21	R	REC. COPIER	500		20	1			20	1			SPARE		22
23	A	GP-3, GP-4		100	20	1			20	1			SPARE		24
25	M	CP-1	100		20	1			20	1			SPARE		26
27	R	TOILET, HALL		720	20	1			20	1			SPARE		28
29		SPACE				1			20	1			SPARE		30
31		SPACE				1				1			SPACE		32
33		SPACE				1				1			SPACE		34
35		SPACE				1				1			SPACE		36
37		SPACE				1				1			SPACE		38
39		SPACE				1				1			SPACE		40
		SUB-TOTAL	9,014	10,240							6,750	7,050	SUB-TOTAL		

LOAD:	CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD
LIGHTING(L)	0.3 KVA	x	1.00	=	0.3 KVA
RECEPTACLES (R) <10KVA	4.6 KVA	x	1.00	=	4.6 KVA
RECEPTACLES (R) >10KVA	0.0 KVA	x	0.50	=	0.0 KVA
HEATING (H)	0.0 KVA	x	0.80	=	0.0 KVA
A/C (A)	16.4 KVA	x	0.80	=	13.1 KVA
MISC. (M)	11.8 KVA	x	0.50	=	5.9 KVA
KITCHEN EQUIP. (K)	0.0 KVA	x	0.50	=	0.0 KVA
TOTAL:	33.1 KVA			=	23.9 KVA

NOTES:
1. RECONNECT EXISTING CIRCUIT TO NEW PANELBOARD.
2. ESITMATED LOAD.

PANEL: NE (NEW)
BUS RATING: 200A
RATING, VOLTAGE: 120/240V - 1PH -3W
MINIMUM SHORT CIRCUIT RATING: 10,000AIC

LOCATION: HALLWAY
MAIN LUG ONLY
MOUNTING: FLUSH
FED FROM: DP & GENERATOR

CKT. NO.	TYPE CKT	SERVICE	LOAD (VA) A	LOAD (VA) B	BKR. AMP.	POLES	GFCI	GFCI	BKR. AMP.	POLES	LOAD (VA) A	LOAD (VA) B	SERVICE	TYPE CKT	CKT. NO.
1	L	LTS. OFFICES, BREAK RM.	1066		20	1			20	1	1000		REC. I.T.	R	2
3	L	LTS. 8' BAY LIGHTS		1680	20	1			20	1		1000	REC. I.T.	R	4
5	R	REC. REFRIGERATOR	800		20	1	X		20	1	1260		REC. SHARED OFFICE	R	6
7	M	SECURITY DOOR HARDWARE		500	20	1			20	1		1080	REC. TWP. SEC. 107	R	8
9		SPARE			20	1			20	1	720		REC. TWP. TREAS. 108	R	10
11		SPARE			20	1			20	2		1747	HP FOR OFFICE AREA (NOTE	A	12
13		SPARE			20	1					1747		1)	A	14
15		SPARE			20	1			60	2		4800	AH FOR OFFICE AREA (NOTE	A	16
17		SPARE			20	1					4800		1)	A	18
19		SPARE			20	1			20	1			SPARE		20
21		SPARE			20	1			20	1			SPARE		22
23		SPARE			20	1			20	1			SPARE		24
25		SPACE				1				1			SPACE		26
27		SPACE				1				1			SPACE		28
29		SPACE				1				1			SPACE		30
31		SPACE				1				1			SPACE		32
33		SPACE				1				1			SPACE		34
35		SPACE				1				1			SPACE		36
37		SPACE				1				1			SPACE		38
39		SPACE				1				1			SPACE		40
		SUB-TOTAL	1,866	2,180							9,527	8,627	SUB-TOTAL		

LOAD:	CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD
LIGHTING(L)	2.7 KVA	x	1.00	=	2.7 KVA
RECEPTACLES (R) <10KVA	5.9 KVA	x	1.00	=	5.9 KVA
RECEPTACLES (R) >10KVA	0.0 KVA	x	0.50	=	0.0 KVA
HEATING (H)	0.0 KVA	x	0.80	=	0.0 KVA
A/C (A)	13.1 KVA	x	0.80	=	10.5 KVA
MISC. (M)	0.5 KVA	x	0.50	=	0.3 KVA
KITCHEN EQUIP. (K)	0.0 KVA	x	0.50	=	0.0 KVA
TOTAL:	22.2 KVA			=	19.3 KVA

NOTES:
1. HEAT PUMP AND AIR HANDLER THAT IS SERVING THE OFFICE AREA IS TO BE RE-FED FROM PANEL A TO THIS PANEL (NE). FIELD COORDINATE THE EXACT CIRCUIT AND CIRCUIT BREAKER SIZE.

PANEL: B (NEW)
BUS RATING: 250A
RATING, VOLTAGE: 120/240V - 1PH -3W
MINIMUM SHORT CIRCUIT RATING: 10,000AIC

LOCATION: EXEC. & STORAGE 101
MAIN LUG ONLY
MOUNTING: SURFACE
FED FROM: DP

CKT. NO.	TYPE CKT	SERVICE	LOAD (VA) A	LOAD (VA) B	BKR. AMP.	POLES	GFI	GFI	BKR. AMP.	POLES	LOAD (VA) A	LOAD (VA) B	SERVICE	TYPE CKT	CKT. NO.
1	L	LTG. MTG. RM. STORAGE	975		20	1			90	2	7488		AHU-1	A	2
3	R	REC. WATER COOLER		500	20	1	X					7488		A	4
5	R	REC. LOBBY, TOILET, OUTSIDE	1260		20	1			90	2	7488		AHU-2	A	6
7	R	REC. MTG. RM BENCH		900	20	1						7488		A	8
9	R	REC. MTG. RM BENCH	1260		20	1			20	1	900		REC. MTG. RM 102	R	10
11	R	REC. MTG. RM. STORAGE		1260	20	1			20	1		720	REC. MTG. RM 102	R	12
13		SPARE			20	1			20	1	720		REC. MTG. RM 102 (FLOOR)	R	14
15		SPARE			20	1			20	1		1080	REC. MTG. RM 102 (FLOOR)	R	16
17	A	DSSO-1	1421		25	2			35	2	1920		HP-1	A	18
19	A			1421								1920		A	20
21	A	DSSO-2	1421		25	2			35	2	1920		HP-2	A	22
23	A			1421								1920		A	24
25	H	EWH-1	1000		20	2			20	1	100		GP-1,2	A	26
27	H			1000					20	1			SPARE		28
29	H	EWH-2	1000		20	2			20	1			SPARE		30
31	H			1000					20	1			SPARE		32
33		SPARE			20	1			20	1			SPARE		34
35		SPARE			20	1				1			SPACE		36
37		SPARE			20	1				1			SPACE		38
39		SPARE			20	1				1			SPACE		40
		SUB-TOTAL	8,337	7,502							20,536	20,616	SUB-TOTAL		

LOAD:	CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD
LIGHTING(L)	1.0 KVA	x	1.00	=	1.0 KVA
RECEPTACLES (R) <10KVA	8.6 KVA	x	1.00	=	8.6 KVA
RECEPTACLES (R) >10KVA	0.0 KVA	x	0.50	=	0.0 KVA
HEATING (H)	4.0 KVA	x	0.80	=	3.2 KVA
A/C (A)	43.4 KVA	x	0.80	=	34.7 KVA
MISC. (M)	0.0 KVA	x	0.50	=	0.0 KVA
KITCHEN EQUIP. (K)	0.0 KVA	x	0.50	=	0.0 KVA
TOTAL:	57.0 KVA			=	47.5 KVA

NOTES:

PANEL: DP (NEW)
BUS RATING: 400A
RATING, VOLTAGE: 120/240V - 1PH -3W
MINIMUM SHORT CIRCUIT RATING: 10,000AIC

LOCATION: SERVICE GARAGE
MAIN CIRCUIT BREAKER: 400A/2P 100% RATED
MOUNTING: SURFACE
FED FROM: UTILITY

CKT. NO.	TYPE CKT	SERVICE	LOAD (VA) A	LOAD (VA) B	BKR. AMP.	POLES			BKR. AMP.	POLES	LOAD (VA) A	LOAD (VA) B	SERVICE	TYPE CKT	CKT. NO.
1	L	LTS. STREET (FRONT)	1000		**20**	**1**			**200**	**2**		**13534**	**PANEL A**	**K**	**2**
3	L	LTS. STREET (BACK)		1000	**20**	**1**						**13534**		**K**	**4**
5	M	WATER PUMP/OIL HEATER	2400		**30**	**2**			**60**	**2**	1000		IMPLEMT SHED	M	6
7	M	BACK DOOR LT. (OUTSIDE)		2400								1000		M	8
9	M	WATER HEATER/UV LITE	2000		**30**	**2**			**20**	**1**	180		REC. AT PANEL	R	10
11	M	ROADMASTER'S OFFICE		2000					**20**	**1**			**SPARE**		**12**
13	**M**	**SPD**	**100**		**30**	**2**			**30**	**1**	180		REC. CINDER SHED	R	14
15	**M**			**100**					**20**	**1**		720	REC. IN HEATED BAY	R	16
17	R	EMA OFFICE/STO. RM.	1000		**100**	**2**			**20**	**1**			**SPARE**		**18**
19	R	RECYCLING BLD.		1000					**250**	**2**		**15834**	**PANEL B**	**K**	**20**
21		**SPARE**			**20**	**1**			**20**	**1**	**15834**			**K**	**22**
23		**SPARE**			**20**	**1**			**20**	**1**			**SPARE**		**24**
25		**SPARE**			**20**	**1**			**20**	**1**			**SPARE**		**26**
27		**SPARE**			**20**	**1**			**20**	**1**			**SPARE**		**28**
29		**SPARE**			**20**	**1**			**20**	**1**			**SPARE**		**30**
31		SPACE				1				1			SPACE		32
33		SPACE				1				1			SPACE		34
35		SPACE				1				1			SPACE		36
37		SPACE				1				1			SPACE		38
39		SPACE				1				1			SPACE		40
		SUB-TOTAL	6,500	6,500							30,728	31,088	SUB-TOTAL		

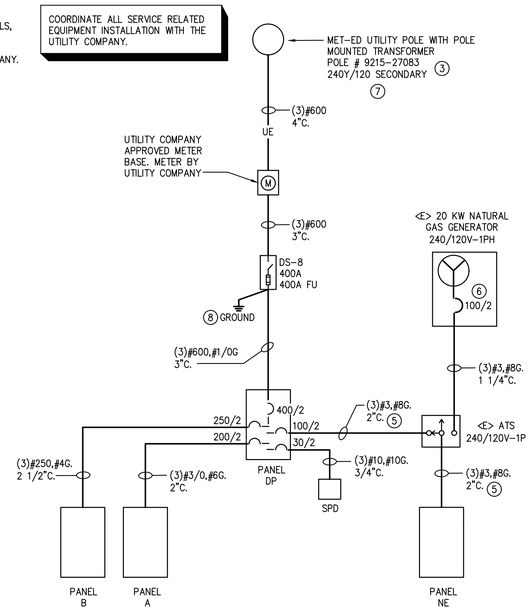
LOAD:	CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD
LIGHTING(L)	2.0 KVA	x	1.00	=	2.0 KVA
RECEPTACLES (R) <10KVA	3.1 KVA	x	1.00	=	3.1 KVA
RECEPTACLES (R) >10KVA	0.0 KVA	x	0.50	=	0.0 KVA
HEATING (H)	0.0 KVA	x	0.80	=	0.0 KVA
A/C (A)	0.0 KVA	x	0.80	=	0.0 KVA
MISC. (M)	11.0 KVA	x	0.50	=	5.5 KVA
SUB PANEL (K)	58.7 KVA	x	1.00	=	58.7 KVA
TOTAL:	74.8 KVA			=	69.3 KVA

NOTES:
1. ITEMS SHOWN IN BOLD ARE NEW. ALL OTHER CIRCUITS ARE EXISTING TO BE RE-CONNECTED. ALL CIRCUIT BREAKERS ARE NEW.

DRAWING NOTES:

1. WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS, PROVIDE ALL MATERIALS, AND CONNECTIONS PER UTILITY COMPANY REQUIREMENTS.
2. COORDINATE ALL UTILITY WORK WITH THE SITE CONTRACTOR AND UTILITY COMPANY.
3. UTILITY OWNED TRANSFORMERS TO BE SIZED BY UTILITY COMPANY.
4. REFER TO PANELBOARD SCHEDULES FOR EQUIPMENT REQUIREMENTS
5. CONDUIT IS OVERSIZED FOR A FUTURE (LARGER) EMERGENCY GENERATOR.
6. UNCONFIRMED CIRCUIT BREAKER SIZE.
7. MET-ED WORK ORDER NUMBER: 363129785
   MET-ED DESIGNER: RYAN BOWMAN
   OFFICE: (717) 848-7385 CELL: (717) 676-1846
   EMAIL: rbowman@firstenergycorp.com
8. FOR ELECTRICAL SERVICE GROUNDING, PROVIDE THE FOLLOWING:
   a. #1/0 FROM COLD WATER SERVICE ENTRANCE TO MCGB.
   b. #1/0 FROM GROUNDING COUNTERPOISE TO MCGB.
   c. #1/0 FROM FOOTING STEEL TO MCGB.
   d. #1/0 FROM BUILDING STEEL TO MCGB.
   e. #4 AWG GROUND TO TELEPHONE SERVICE ENTRANCE.

COORDINATE ALL SERVICE RELATED EQUIPMENT INSTALLATION WITH THE UTILITY COMPANY.



REVISED SINGLE LINE DIAGRAM (1)(2)(4)

NO SCALE

DISCONNECT SCHEDULE

DESIG.	AMPS	POLES	VOLTS	FUSE AMPS	NEMA ENCL.	REMARKS
DS-1	30	2	240	30	3R	HP-1
DS-2	30	2	240	30	3R	HP-2
DS-3	100	2	240	80	1	AHU-1
DS-4	100	2	240	80	1	AHU-2
DS-5	30	2	240	20	3R	DSSO-1
DS-6	30	2	240	20	3R	DSSO-2
DS-7	30	2	240	NF	1	WATER HEATER WH-1
DS-8	400	2+SN	240	400	3R	SERVICE ENTRANCE RATED

NOTES:
1. VERIFY FUSE SIZE WITH APPROVED SUBMITTAL.

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ADDITION & RENOVATION FOR
FRANKLIN TOWNSHIP MUNICIPAL
150 CENTURY LANE
FRANKLIN TOWNSHIP, DILLSBURG, PA

SINGLE LINE DIAGRAM & SCHEDULES

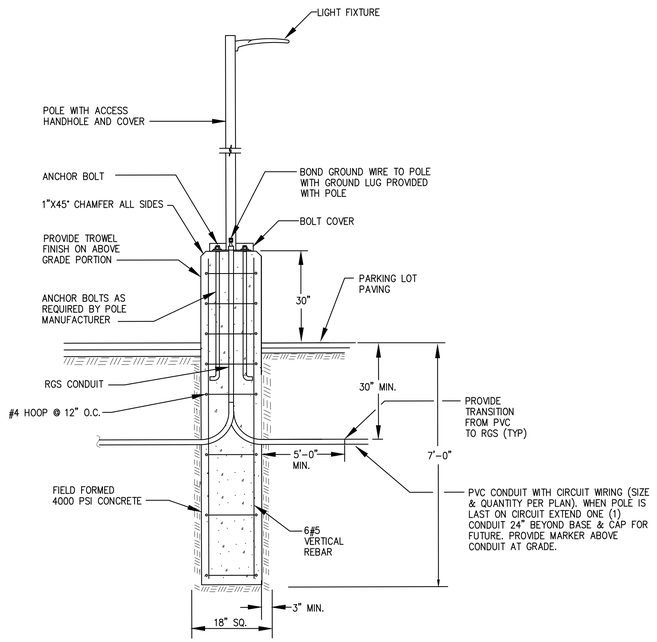
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACY M. MORGAN
No. PE062998

ENGINEER: STACY M. MORGAN PE062998
PROJECT NUMBER: 26083
SCALE: AS NOTED
DATE: 07/18/2026
DRAWN BY: BDK/JC
CHECKED BY: SMM
DATE CHECKED: 06/16/2026

REVISIONS

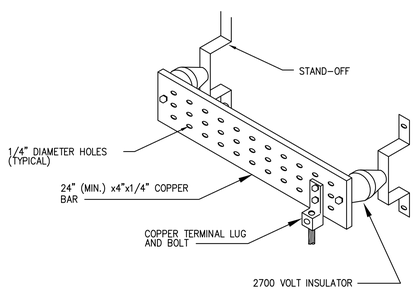
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10/19/2026	ISSUED FOR CONSTRUCTION

E002

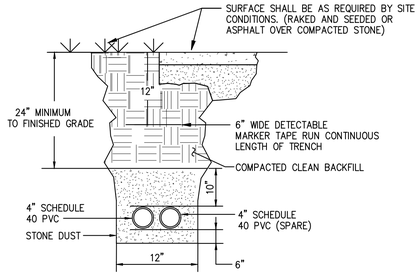


1 DETAIL – LIGHT POLE FOUNDATION SUBJECT TO VEHICLE TRAFFIC
NO SCALE

NOTE:
1. FOUNDATION SHALL BE POURED ON UNDISTURBED SOIL. CONCRETE SHALL NOT BE POURED BELOW 40°F ON A FALLING TEMPERATURE

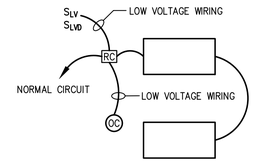


GROUND BAR DETAIL
NO SCALE



A SECTION – TRENCH DETAIL
NO SCALE

NOTES:
1. REFER TO SITE PLAN AND SINGLE LINE DIAGRAM FOR CONDUIT SIZE AND QUANTITY.
2. PROVIDE EXCAVATION, BACKFILL & ASPHALT REPAIRS AS REQUIRED.



LIGHTING CONTROL SCHEMATIC
NO SCALE

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ADDITION & RENOVATION FOR
FRANKLIN TOWNSHIP MUNICIPAL
150 CENTURY LANE
FRANKLIN TOWNSHIP, DILLSBURG, PA

DETAILS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACY M. MORGAN
No. PE 062998

ENGINEER: STACY M. MORGAN PE062998

PROJECT NUMBER:	26083
SCALE:	AS NOTED
DATE:	07/18/2026
DRAWN BY:	BDK/JC
CHECKED BY:	SMM
DATE CHECKED:	06/16/2026

REVISIONS

DATE:	DESCRIPTION:
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E003

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S&A Proj No: 26030.00

NOTES:

1. REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING AND CONDUIT BACK TO POINT OF ORIGIN.
2. REMOVE ALL RECEPTACLES, WIRING AND CONDUIT BACK TO POINT OF ORIGIN.
3. REMOVE ALL DATA OUTLETS, WIRING AND CONDUIT BACK TO POINT OF ORIGIN. DEMOLITION OF ALL DATA HEAD END EQUIPMENT SHALL BE COORDINATED WITH THE OWNER.
4. REMOVE ALL SECURITY CAMERAS, WIRING AND CONDUIT BACK TO POINT OF ORIGIN. SECURITY EQUIPMENT DEMOLITION SHALL BE COORDINATED WITH THE OWNER.
5. PANELBOARD TO REMOVED, REMOVE ALL BRANCH CIRCUIT WIRING AND RETAIN CIRCUITS TO BE RECONNECTED TO NEW PANELBOARD. REFER TO PANELBOARD SCHEDULES.
6. REMOVE ALL WIRING AND CONDUIT TO HVAC EQUIPMENT UNLESS NOTED OTHERWISE.
7. REMOVE ELECTRIC SERVICE EQUIPMENT, WIRING AND CONDUIT. RETAIN BRANCH CIRCUIT WIRING TO BE RE-CONNECTED INTO NEW SERVICE PANELBOARD 'DP'. REFER TO SINGLE LINE DIAGRAM ON DRAWING E002.

GENERAL DEMOLITION NOTES:

THE CONTRACTOR SHALL, PRIOR TO SUBMITTING A BID, VISIT THE JOB SITE AND WALK THROUGH THE DIFFERENT AREAS WHERE THE DEMOLITION AND NEW WORK WILL BE PERFORMED AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND THE EXTENT OF THE THE DEMOLITION WORK AND CLARIFY ALL QUESTIONS WITH ARCHITECT AND/OR ELECTRICAL ENGINEER PRIOR TO BID AND INSTALLATION. NO ADDITIONAL COST TO OWNER SHALL BE ALLOWED DUE TO UNFAMILIARITY WITH EXISTING CONDITIONS.

THE CONTRACTOR SHALL FOLLOW ALL SAFETY PROCEDURES AND REGULATIONS AS REQUIRED BY ALL CONCERNING BODIES, INCLUDING BUT NOT LIMITED TO, THE CITY, FEDERAL, STATE OF DIVISION OR OCCUPATIONAL, SAFETY AND HEALTH. NOTIFY ALL WORKERS OF THESE REGULATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR NOT TO DAMAGE ANY EXISTING UTILITY LINES AND EQUIPMENT, IN OR BELOW SLAB, IN THE CEILING OR ABOVE THE CEILING SPACE AND IN THE WALLS, INCLUDING BUT NOT LIMITED TO GAS, WATER, FIRE, SEWAGE AND DRAINAGE LINES AND ELECTRICAL CONDUITS AND WIRING, ETC. WHICH SHALL BE IN THE WAY OF DEMOLITION WORK. CONTRACTOR SHALL TAKE ALL THE PRECAUTIONS INCLUDING, INCLUDING HAND BREAKING OF CONCRETE IF NECESSARY, TO PREVENT SUCH DAMAGE. ON THE FIRST OCCURRENCE OF ANY DAMAGE, THE CONTRACTOR SHALL STOP ALL CUTTING, HAND BREAKING AND/OR DEMOLITION WORK AND IMMEDIATELY CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR FURTHER INSTRUCTIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REPAIRING DAMAGED UTILITY LINES AND EQUIPMENT. THE METHOD OF SUCH REPAIRS SHALL BE APPROVED BY THE ARCHITECT AND/OR ELECTRICAL ENGINEER PRIOR TO PROCEEDING.

FOR DEMOLITION WORK PERFORMED IN AREAS WHERE THE OPERATION OF THE EXISTING FACILITY MUST CONTINUE OR SHOULD NOT BE INTERRUPTED, CONTRACTOR SHALL PERFORM THE FOLLOWING:

a. COORDINATE THE NEW AND DEMOLITION ELECTRICAL WORK WITH OTHER TRADES' WORK SCHEDULE.

b. KEEP THE SHUTDOWN TIME TO A MINIMUM.

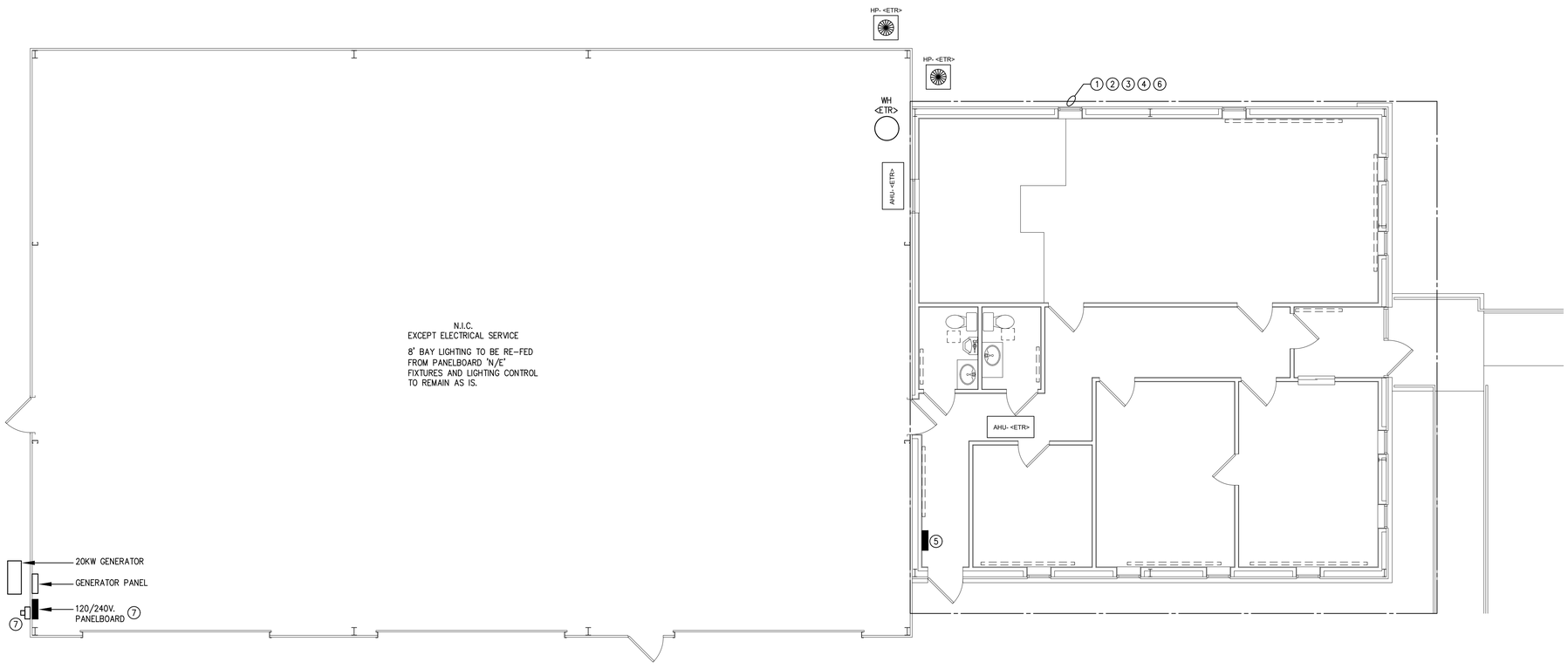
c. COORDINATE THE NEW AND DEMOLITION WORK NOT TO COINCIDE WITH WORKING HOURS OF THE EXISTING FACILITY, IF POSSIBLE.

d. PROVIDE TEMPORARY ELECTRICAL, TELEPHONE AND AUXILIARY SYSTEM OUTLETS AND SERVICES TO AVOID INTERRUPTING THE OPERATION OF EXISTING FACILITY.

e. INCLUDE ALL COSTS OF WORKING AFTER NORMAL BUSINESS HOURS IN BID. NO EXTRAS WILL BE ALLOWED.

DE-ENERGIZE ALL BRANCH CIRCUITS SERVING OUTLETS AND FEEDERS SERVING PANELS TO BE WORKED ON AS INDICATED ON DRAWINGS AND/OR REQUIRED BY OTHER TRADES TO COMPLETE DEMOLITION WORK. PROPERLY TAPE BOTH ENDS OF CONDUCTORS TO BE REMOVED.

CIRCUIT BREAKERS IN EXISTING PANELS FEEDING BRANCH CIRCUIT TO BE DE-ENERGIZED AND DISCONNECTED, SHALL REMAIN AS SPARE CIRCUIT BREAKERS AND SHALL BE IDENTIFIED "SPARE" ON PANEL DIRECTORY AND SET TO "OFF" POSITION.



ELECTRICAL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

NORTH

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ADDITION & RENOVATION FOR
FRANKLIN TOWNSHIP MUNICIPAL

150 CENTURY LANE
FRANKLIN TOWNSHIP, DILLSBURG, PA

ELECTRICAL DEMOLITION PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STACY M. MORGAN
ENGINEER No. PE062998

ENGINEER:	STACY M. MORGAN PE062998
PROJECT NUMBER:	26083
SCALE:	AS NOTED
DATE:	07/18/2026
DRAWN BY:	BDK/JC
CHECKED BY:	SMM
DATE CHECKED:	06/16/2026

REVISIONS

DATE:	DESCRIPTION:
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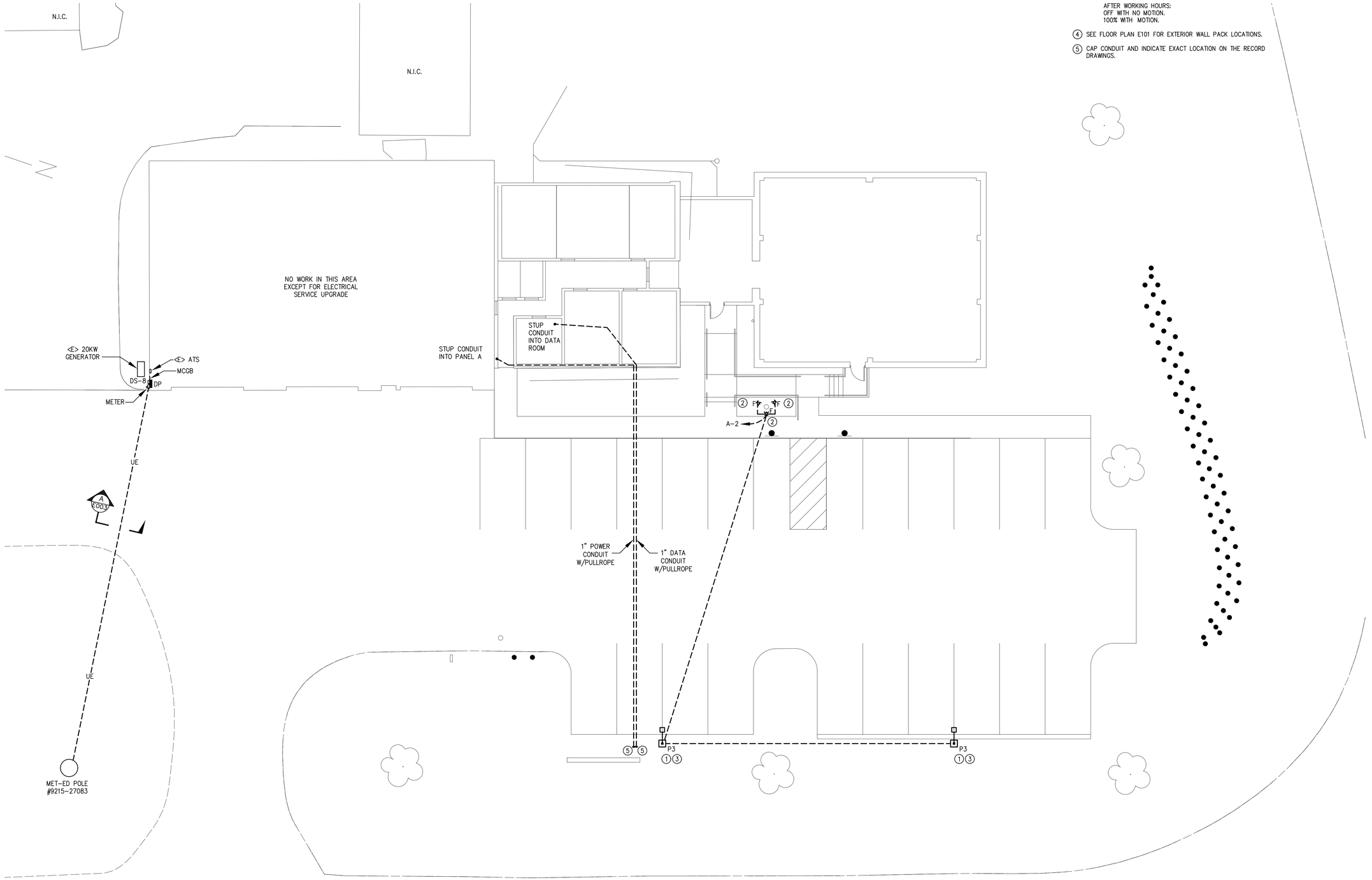
ED101

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NOTES:

1. SEE POLE FOUNDATION DETAIL #1 ON DRAWING E003.
2. FLAG POLE TO OPERATE FROM DUSK TO DAWN.
3. POLE LIGHTING TO BE CONTROLLED:
   WORKING HOURS:
   DIM TO 50% WHEN THERE IS NO MOTION.
   ON TO 100% WITH MOTION.

   AFTER WORKING HOURS:
   OFF WITH NO MOTION.
   100% WITH MOTION.
4. SEE FLOOR PLAN E101 FOR EXTERIOR WALL PACK LOCATIONS.
5. CAP CONDUIT AND INDICATE EXACT LOCATION ON THE RECORD DRAWINGS.



ELECTRICAL SITE PLAN (4)

SCALE: 1" = 10'-0"

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ADDITION & RENOVATION FOR
FRANKLIN TOWNSHIP MUNICIPAL

150 CENTURY LANE
FRANKLIN TOWNSHIP, DILLSBURG, PA

ELECTRICAL SITE PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACY M. MORGAN
No. PE 062998

ENGINEER: STACY M. MORGAN PE062998

PROJECT NUMBER:	26083
SCALE:	AS NOTED
DATE:	07/18/2026
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CHECKED BY:	SMM
DATE CHECKED:	06/16/2026

REVISIONS

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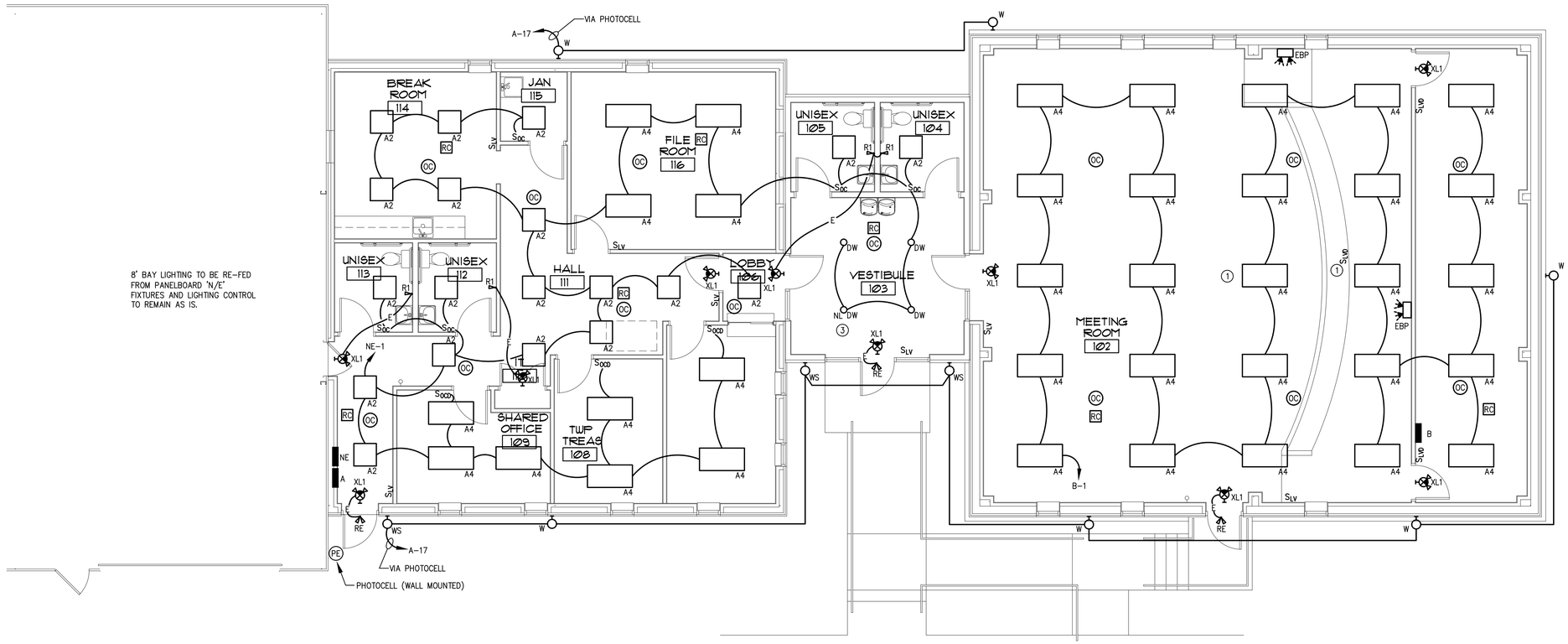
LIGHT FIXTURE SCHEDULE (NOTE 1)

TAG	LAMP TYPE	DESCRIPTION	MOUNTING	LAMPING	WATTS	VOLTS	MANUFACTURER	MODEL NUMBER	NOTES
A2	LED	2X2 LED PANEL	RECESSED	3200LM, 80CRI, 3500K	31	MVOLT	LITHONIA	CPX 2X2 3200 80CRI 35K SWL MIN10 ZT MVOLT	
A4	LED	2X4 LED PANEL	RECESSED	3000LM, 80CRI, 3500K	39	MVOLT	LITHONIA	CPX 2X4 3000 80CRI 35K SWL MIN10 ZT MVOLT	
DW	LED	INTERIOR 6" RD WAFFER DOWNLIGHT	RECESSED	950LM, 3000K, 90CRI	12	120	JUNO	WF6 SWW5 90CRI MW	
EBP	LED	EMERGENCY BATTERY PACK	SURFACE	(2) 3.3W LED, 640LM	6.6	MVOLT	LITHONIA	ELM4L UVOLT LTP SDRT HO	
F	LED	FLAGPOLE LIGHT	IN-GROUND	7000LM, 4000K, 70CRI	70	MVOLT	LITHONIA	DSXF2 LED P2 40K 70CRI NSP MVOLT THK DDBXD	4
RI	LED	INTERIOR REMOTE HEAD	SURFACE	(1) 1.2W LED	1.2	9.6VDC	LITHONIA	ELMRE LP220L SGL	
RE	LED	TWIN EXTERIOR REMOTE HEAD	SURFACE	(2) 1.5W LED	3	9.6VDC	LITHONIA	ERE W T SQ WP	
P3	LED	POLE LIGHT TYPE 4	POLE	4854LM, 3500K, 80CRI	45	MVOLT	LITHONIA	DSXO LED P2 35K 80CRI T4M MVOLT SPA NLTAIR 2PIR HN HS DDBXD	2,3
W	LED	EXTERIOR WALL PACK (W/ MOTION SENSOR)	SURFACE	3771LM, 70CRI, 40K	28	MVOLT	LITHONIA	DSXW1 LED P4 35K 80CRI T4M MVOLT SF DDBXD WITH nLIGHT AIR rSBOR6 IM BZ G2	
WS	LED	4" EXTERIOR WALL SCONCE (W/ MOTION SENSOR)	SURFACE	2479LM, 30-50k	20	MVOLT	LITHONIA	WMCL4 PE DDBX DWITH nLIGHT AIR rSBOR6 IM BZ G2	
XL1	LED	EXIT LIGHT W/ REMOTE HEADS	SURFACE	(2) 1.5W/9.6VDC LED	4.3	MVOLT	LITHONIA	LHQM S W RG MVOLT HO SD	

NOTES:
1. LIGHT FIXTURE MANUFACTURER AND MODEL NUMBER LISTED ARE BASIS OF DESIGN. PROVIDE BASIS OF DESIGN FIXTURE OR ARCHITECT/ENGINEER APPROVED EQUAL.
2. PROVIDE 16 FOOT POLE TO MATCH FIXTURE. PROVIDE ALL HARDWARE AS REQUIRED.
3. PROVIDE nLIGHT AIR rSBG FOR SITE LIGHTING CONTROL. PROVIDE 120V CIRCUIT TO CONTROL PANEL.
4. LIGHT FIXTURE TO BE CONTROLLED BY THE PHOTOCELL.

NOTES:
1. AREA CONTROLLED BY MOTION SENSORS WITH OVERRIDE SWITCH. PROVIDE OVERRIDE SWITCH WITH DIMMING UNDER THE BOARD DESK. FIELD COORDINATE THE EXACT LOCATION WITH THE OWNER.
2. REFER TO DRAWING E003 FOR LIGHT CONTROL WIRING SCHEMATICS.
3. NIGHT LIGHT (NL) TO BE UNSWITCHED.

8' BAY LIGHTING TO BE RE-FED FROM PANELBOARD 'N/E' FIXTURES AND LIGHTING CONTROL TO REMAIN AS IS.



FLOOR PLAN - LIGHTING (2)

SCALE: 3/16" = 1'-0"

LIGHT FIXTURE WIRING ON PLAN IS DIAGRAMMATIC AND ILLUSTRATES THE CIRCUITING. PROVIDE HOT, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED FOR FEED THROUGH SWITCHING.

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ADDITION & RENOVATION FOR
FRANKLIN TOWNSHIP MUNICIPAL

150 CENTURY LANE
FRANKLIN TOWNSHIP, DILLSBURG, PA

FLOOR PLAN - LIGHTING

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACY M. MORGAN
No. PE062998

ENGINEER: STACY M. MORGAN PE062998

PROJECT NUMBER:	26083
SCALE:	AS NOTED
DATE:	07/18/2026
DRAWN BY:	BDK/JC
CHECKED BY:	SMM
DATE CHECKED:	06/16/2026

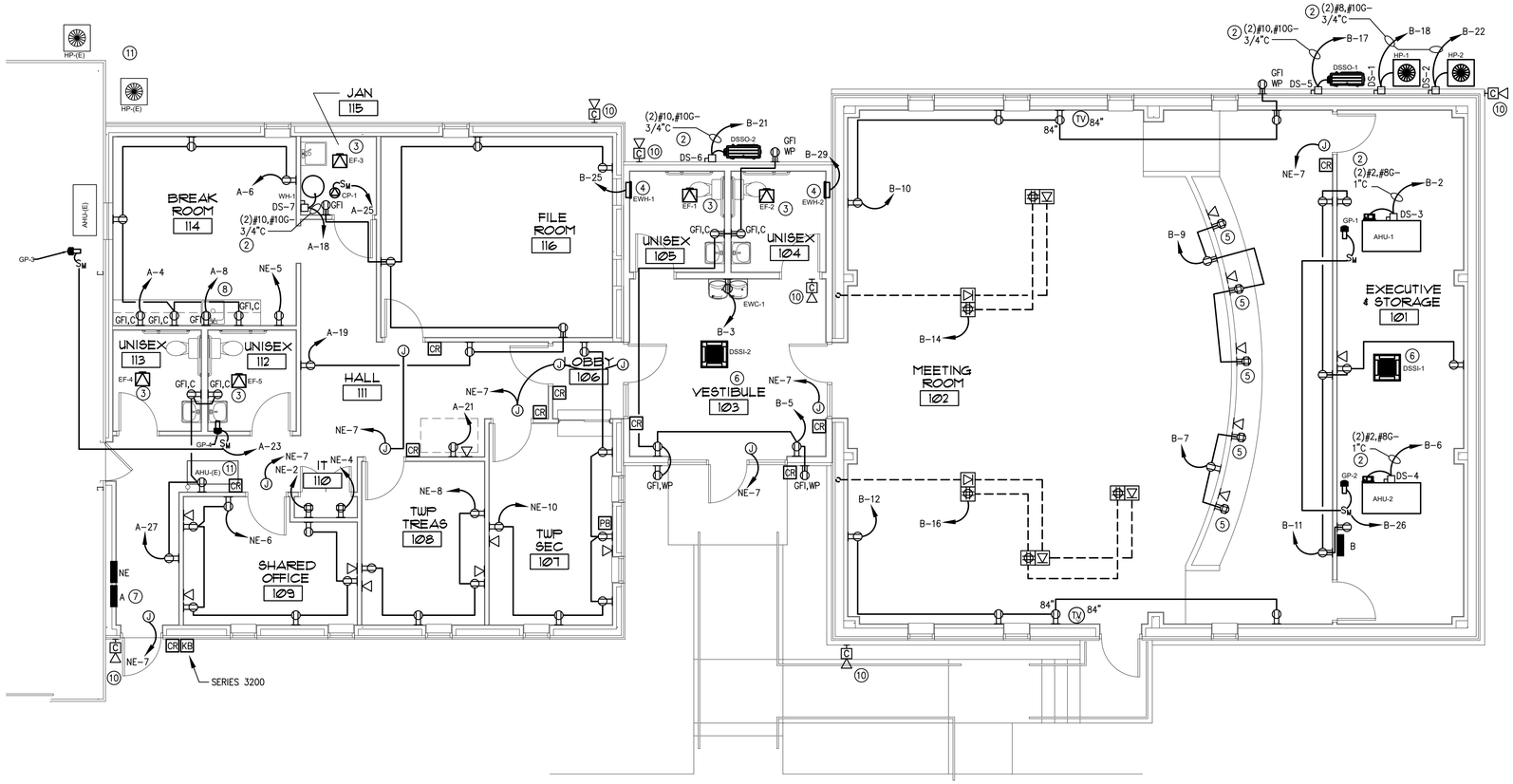
REVISIONS

DATE:	DESCRIPTION:
07/18/2026	CONTRACT DRAWINGS
10/19/2026	ISSUED FOR CONSTRUCTION

E101

NOTES:

1. COORDINATE FINAL LOCATION OF THE MECHANICAL EQUIPMENT AND TERMINATION WITH THE HVAC CONTRACTOR.
2. CONDUCTOR AND CONDUIT SIZE ON THE LOAD SIDE OF THE DISCONNECT SHALL BE THE SAME SIZE AS THE BRANCH FEEDER WIRE AND CONDUIT.
3. CONNECT EXHAUST FAN TO LIGHTING CIRCUIT AND CONTROL FOR THIS ROOM. COORDINATE WITH THE HVAC CONTRACTOR.
4. TERMINATE WIRING TO DISCONNECT PROVIDED WITH THE EQUIPMENT.
5. DOUBLE DUPLEX RECEPTACLES TO BE MOUNTED UNDER TABLE WITH DATA OUTLET. FIELD COORDINATE EXACT LOCATION WITH OWNER AND MILLWORK INSTALLER.
6. UNIT POWERED FROM ASSOCIATED OUTDOOR UNIT. COORDINATE WIRING WITH HVAC CONTRACTOR.
7. RECONNECT EXISTING CIRCUITS THAT WERE NOT DEMOLISHED. REFER TO PANELBOARD SCHEDULE.
8. RECEPTACLE TO BE MOUNTED UNDER THE SINK FOR THE OSMOSIS DISPENSER. COORDINATE EXACT LOCATION IN FIELD WITH EQUIPMENT INSTALLER.
9. COORDINATE DOOR HARDWARE WIRING TERMINATIONS WITH THE HARDWARE INSTALLER.
10. PROVIDE OUTLET BOX WITH 1" CONDUIT STUBBED TO ABOVE AN ACCESSIBLE CEILING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE SECURITY CONTRACTOR.
11. EXISTING AIR HANDLER TO BE CONNECTED TO NEW NORMAL/EMERGENCY PANELBOARD. EXTEND WIRING AS REQUIRED TO NEW PANEL LOCATION. WIRE AND CONDUIT SIZE TO MATCH EXISTING.
12. EXISTING HEAT PUMP TO BE CONNECTED TO NEW NORMAL/EMERGENCY PANELBOARD. EXTEND WIRING AS REQUIRED TO NEW PANEL LOCATION. WIRE AND CONDUIT SIZE TO MATCH EXISTING. FIELD COORDINATE/CONFIRM WHICH UNIT SERVES OFFICE AIR HANDLER.



FLOOR PLAN - POWER, LOW VOLTAGE (1)(9)

SCALE: 3/16" = 1'-0"

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150 CENTURY LANE
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FLOOR PLAN - POWER, LOW VOLTAGE

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — STACY M. MORGAN — No. PE 062998

ENGINEER: STACY M. MORGAN PE062998

PROJECT NUMBER:	26083
SCALE:	AS NOTED
DATE:	07/18/2026
DRAWN BY:	BDK/JC
CHECKED BY:	SMM
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