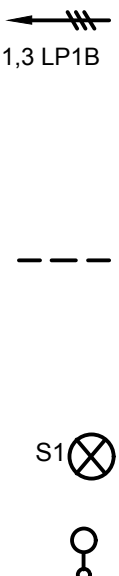



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ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
AC	ALTERNATING CURRENT
A	AMPERE
AF	AMP FRAME
AT	AMP TRIP
ATC	AUTOMATIC TEMPERATURE CONTROLS
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CB	CIRCUIT BREAKER
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRIC METALLIC TUBING
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EF	EXHAUST FAN
FL	FLOOR
FLA	FULL LOAD AMPERE
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MC	MECHANICAL CONTRACTOR
MTD	MOUNTED
MTG	MOUNTING
NMC	NON-METALLIC CONDUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANELBOARD
PH	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
RSC	RIGID GALVANIZED STEEL CONDUIT
SF	SUPPLY FAN
SS	SAFETY SWITCH
TEL	TELEPHONE
TRF	TRANSFORMER
XM	EXISTING TO REMAIN
V	VOLTS
W	WATTS OR WIRE
WP	WEATHERPROOF
4WSN	4-WIRE SOLID NEUTRAL

RECEPTACLE ABBREVIATIONS	
GFI	GROUND FAULT CIRCUIT INTERRUPTER, PERSONAL PROTECTION
WP	WEATHERPROOF RECEPTACLE WITH COVERPLATE LISTED FOR WET LOCATION WITH AN ATTACHMENT PLUG INSERTED.


ELECTRICAL LEGEND	
	<p><b>RACEWAY AND WIRING</b></p> <p>HOMERUN TO PANELBOARD. NUMBER OF TICKS INDICATES NUMBER OF #12 AWG CONDUCTORS CONTAINED IN RACEWAY. TWO (2) #12 AWG SHALL NOT BE INDICATED BY TICKS. NUMERALS 1 AND 3 INDICATE CIRCUITS IN PANELBOARD. RACEWAYS LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 AWG SHALL BE INDICATED ON THE DRAWINGS. PROVIDE AN INSULATED GREEN GROUND WIRE IN ALL RACEWAYS MINIMUM SIZE TO BE #12AWG.</p> <p>UNDERGROUND RACEWAY</p> <p><b>LIGHTING FIXTURES</b></p> <p>SPORTS LIGHT POLE - 'S1' INDICATES POLE NUMBER</p> <p>PEDESTRIAN LIGHT FIXTURE</p>
	<p><b>RECEPTACLES</b></p> <p>(MOUNT 18" AFF TO CENTER LINE UNLESS NOTED OTHERWISE)</p> <p>DUPLEX CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT. GROUNDED TYPE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER LINE. ALL OTHER MOUNTING HEIGHTS SHALL BE AS NOTED ADJACENT TO THE SYMBOL. REFER TO RECEPTACLE ABBREVIATIONS FOR SPECIAL PURPOSE RECEPTACLES.</p> <p><b>POWER DISTRIBUTION EQUIPMENT</b></p> <p>HAND HOLE PHH = POWER HANDHOLE CHH = COMMUNICATIONS HANDHOLE</p> <p>GROUND - SYSTEM AND/OR EQUIPMENT</p>

GENERAL NOTES	
1.	DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
2.	WORK SHALL CONFORM TO THE MASSACHUSETTS ELECTRICAL CODE AND MASSACHUSETTS BUILDING CODE AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
3.	THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
4.	CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
5.	CONTRACTOR SHALL PAY ELECTRIC UTILITY COMPANY BACKCHARGES AND PROVIDE COORDINATION WITH SAME.
6.	EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, DEVICES, SAFETY SWITCHES, MOUNTING AND WIRING, TRANSFORMERS AND CONNECTIONS NECESSARY TO OPERATE ALL EQUIPMENT.
7.	THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND PAY ALL ENERGY CHARGES.
8.	DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
9.	ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
10.	ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.
11.	COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED, ELECTRICAL EQUIPMENT IS SUBSTITUTED. THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.
12.	MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.
13.	WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
14.	WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
15.	ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF WHICH SYSTEM IS PUT INTO SERVICE UNLESS OTHERWISE SPECIFIED.
16.	WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.
17.	WIRE SHALL BE TYPE "XLP" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.
18.	WIRING METHODS:  A. BELOW GRADE WIRING SHALL BE SCHEDULE 80 PVC.
19.	PANELBOARDS SHALL BE DEAD FRONT, THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE, DESIGNED FOR SURFACE MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 480/277 VOLT, 3-PHASE, 4-WIRE AND 120/208 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL, WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
20.	CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD.
21.	CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.
22.	PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.

Project:

CITY OF WORCESTER

Dept. of Public Works & Parks



HOLMES PLAYGROUND  
Plantation Street  
Worcester, MA



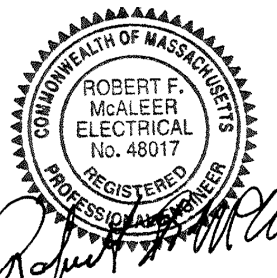
427 Main St, Suite 400,  
Worcester, MA 01608  
508.762.1676 800.SAMPSON  
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

Seal:



ROBERT F. McALEER  
ELECTRICAL  
No. 48017  
MASSACHUSETTS  
REGISTERED

Issued For:

**CONSTRUCTION DOCUMENTS**

Scale: AS SHOWN

Date: 06-30-2025

Drawn By: JW

Reviewed By: MAS

Approved By: RFM

W&S Project No:

W&S File No:

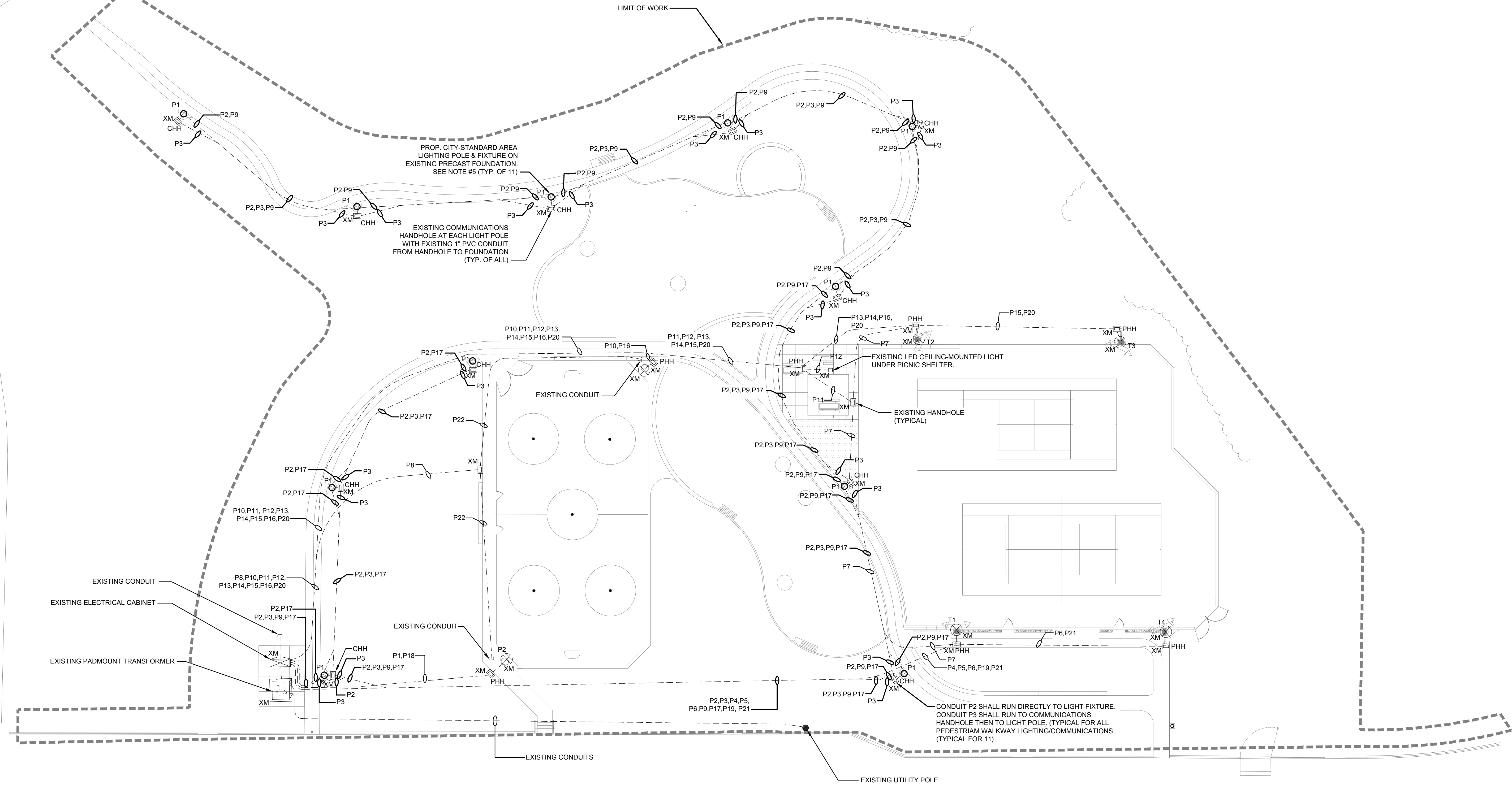
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ELECTRICAL LEGEND,  
ABBREVIATIONS AND  
GENERAL NOTES

Sheet Number:

E1.00

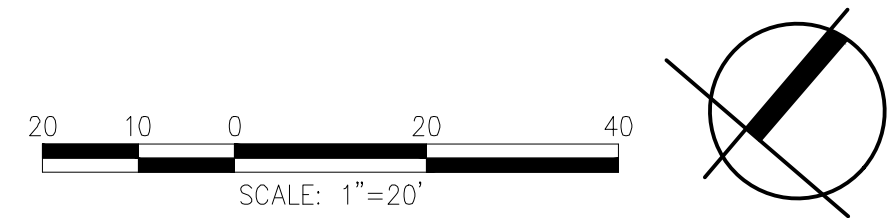
\\need3\scen\W&S Projects\MA\Worcester MA\Holmes Field\CAD\B7\_Design\0\_Current-Holmes Field\Electrical\Holmes Field Phase 1\E1.01-SITE PLAN.dwg



# 1 ELECTRICAL SITE PLAN SCALE: 1" = 20' - 0"

- SPECIAL NOTE:**
- CONTRACTOR SHALL ASSUME THE REPLACEMENT OF THREE (3) TOTAL LIGHT POLE BASES THAT WILL NOT BE ABLE TO BE CLEANED OUT PER NOTE 4 BELOW. CONTRACTOR SHALL VERIFY WITH OWNER AND OWNERS REPRESENTATIVE. ALL WORK FOR NEW BASES SHALL INCLUDE COMPLETE REMOVAL AND DISPOSAL OF EXISTING LIGHT POLE BASES AND INSTALLATION COMPLETE INSTALLATION OF NEW LIGHT POLE BASES, INCLUDING ALL LABOR AND MATERIALS.

- DRAWING NOTES:**
- REFER TO DRAWING E1.00 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
  - REFER TO DRAWINGS E1.02 FOR CONDUIT AND WIRE SCHEDULE AND PANELBOARD SCHEDULES.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL WASHERS AND BOLTS FOR ANCHORING OF LIGHT POLES TOT HE EXISTING LIGHT POLE FOUNDATION.
  - ELECTRICAL CONTRACTOR SHALL CLEAN OUT ANY DEBRIS WITHIN EXISTING CONDUIT STUB-UPS SO THEY ARE UNOBSTRUCTED AND READY FOR INSTALLATION OF WIRING TO LIGHT FIXTURES.
  - NEW WALKWAY LIGHT FIXTURE P1 SHALL BE GRANVILLE II LED, MANUFACTURED BY HOLOPHANE, CAT#GPD2-PS20AS-40K-M-BK-5-S-BK-DE. LIGHT POLE SHALL BE, CAT#18-L5J-17-P07-ABG-BK.













































































Revisions:		
No.	Date	Description

\\ned3\scen\W&S Projects\MA Worcester Field\Cabinet Design\0\_Current-Holmes Field\Electrical\Holmes Field Phase 1\E1.02-SCHEDULES.dwg

EXISTING PANELBOARD SCHEDULE										
DESIGNATION: PPH1			S.C. RATING: 35,000A RMS SYM.				REMARKS: SERVICE ENTRANCE RATED			
LOCATION: ELECTRICAL CABINET			SERVICE: 277/480V, 3Ø, 4W							
RATING: 400 AMPS			MOUNTING: SURFACE							
MAIN: 400 MCB										
CKT. NO.	LOAD DESIGNATION	BREAKER		PHASE			BREAKER		LOAD DESIGNATION	CKT. NO.
		TRIP	POLE	A	B	C	POLE	TRIP		
1	-	-	⌋	⌋	⌋	⌋	-	-	-	2
3	FIXTURE POLE A1/CONTACTOR C1 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE A2/CONTACTOR C2 (FUTURE)	4	4
5	-	-	⌋	⌋	⌋	⌋	-	-	-	6
7	-	-	⌋	⌋	⌋	⌋	-	-	-	8
9	FIXTURE POLE B1/CONTACTOR C3 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE B2/CONTACTOR C4 (FUTURE)	10	10
11	-	-	⌋	⌋	⌋	⌋	-	-	-	12
13	-	-	⌋	⌋	⌋	⌋	-	-	-	14
15	FIXTURE POLE C1/CONTACTOR C5 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE C2/CONTACTOR C6 (FUTURE)	16	16
17	-	-	⌋	⌋	⌋	⌋	-	-	-	18
19	-	-	⌋	⌋	⌋	⌋	-	-	-	20
21	FIXTURE POLE D1/CONTACTOR C7 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE D2/CONTACTOR C8 (FUTURE)	22	22
23	-	-	⌋	⌋	⌋	⌋	-	-	-	24
25	-	-	⌋	⌋	⌋	⌋	-	-	-	26
27	FIXTURE POLE P1/CONTACTOR C9	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE P2/CONTACTOR C10	28	28
29	-	-	⌋	⌋	⌋	⌋	-	-	-	30
31	-	-	⌋	⌋	⌋	⌋	-	-	-	32
33	FIXTURE POLE T1/CONTACTOR C11	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE T2/CONTACTOR C12	34	34
35	-	-	⌋	⌋	⌋	⌋	-	-	-	36
37	-	-	⌋	⌋	⌋	⌋	-	-	-	38
39	PANEL PPH2	150	⌋	⌋	⌋	⌋	50	PANEL PPL1	40	40
41	-	-	⌋	⌋	⌋	⌋	-	-	-	42

EXISTING PANELBOARD SCHEDULE										
DESIGNATION: PPH2			S.C. RATING: 35,000A RMS SYM.				REMARKS:			
LOCATION: ELECTRICAL CABINET			SERVICE: 277/480V, 3Ø, 4W							
RATING: 400 AMPS			MOUNTING: SURFACE							
MAIN: 400 MLO										
CKT. NO.	LOAD DESIGNATION	BREAKER		PHASE			BREAKER		LOAD DESIGNATION	CKT. NO.
		TRIP	POLE	A	B	C	POLE	TRIP		
1	-	-	⌋	⌋	⌋	⌋	-	-		2
3	FIXTURE POLE T31/CONTACTOR C13	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE T4/CONTACTOR C14		4
5	-	-	⌋	⌋	⌋	⌋	-	-		6
7	-	-	⌋	⌋	⌋	⌋	-	-		8
9	FIXTURE POLE A1/CONTACTOR C15 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE A2/CONTACTOR C16 (FUTURE)		10
11	-	-	⌋	⌋	⌋	⌋	-	-		12
13	-	-	⌋	⌋	⌋	⌋	-	-		14
15	FIXTURE POLE B2/CONTACTOR C17 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE C1/CONTACTOR C18 (FUTURE)		16
17	-	-	⌋	⌋	⌋	⌋	-	-		18
19	-	-	⌋	⌋	⌋	⌋	-	-		20
21	FIXTURE POLE C2/CONTACTOR C19 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE D1/CONTACTOR C20 (FUTURE)		22
23	-	-	⌋	⌋	⌋	⌋	-	-		24
25	-	-	⌋	⌋	⌋	⌋	-	-		26
27	FIXTURE POLE D2/CONTACTOR C21 (FUTURE)	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE P1/CONTACTOR C22		28
29	-	-	⌋	⌋	⌋	⌋	-	-		30
31	-	-	⌋	⌋	⌋	⌋	-	-		32
33	FIXTURE POLE T1/CONTACTOR C23	30	⌋	⌋	⌋	⌋	30	FIXTURE POLE T2/CONTACTOR C24		34
35	-	-	⌋	⌋	⌋	⌋	-	-		36
37	SPARE	20	⌋	⌋	⌋	⌋	20	SPARE		38
39	SPARE	20	⌋	⌋	⌋	⌋	20	SPARE		40
41	SPARE	20	⌋	⌋	⌋	⌋	20	SPARE		42


EXISTING PANELBOARD SCHEDULE										
DESIGNATION: PPL1			S.C. RATING: 10,000A RMS SYM.				REMARKS:			
LOCATION: ELECTRICAL CABINET			SERVICE: 120/240V, 1Ø, 3W							
RATING: 100 AMPS			MOUNTING: SURFACE							
MAIN: 100A MCB										
CKT. NO.	LOAD DESIGNATION	BREAKER		PHASE			BREAKER		LOAD DESIGNATION	CKT. NO.
		TRIP	POLE	A	B	C	POLE	TRIP		
1	LIGHTING IN ELECTRICAL CABINET	20					20		PATHWAY LIGHTING	2
3	RECEPTACLE IN ELECTRICAL CABINET	20					-	-		4
5	ROLLER HOCKEY PA CABINET	20					20		PATHWAY POLE MOUNTED OUTLETS	6
7	TENNIS COURTS PA CABINET	20					20		CANOPY LIGHTING	8
9	MUSCO LIGHTING CONTROL CABINET #1	20					20		MUSCO LIGHTING CONTROL CABINET #2	10
11	MUSCO LIGHTING CONTROL CABINET #3	20					20		PATHWAY POLE MOUNTED OUTLETS	12
13	SPARE	20					20		SPARE	14
15	SPARE	20					20		SPARE	16
17	SPARE	20					20		SPARE	18
19	SPARE	20					20		SPARE	20
21	SPARE	20					20		SPARE	22
23	SPARE	20					20		SPARE	24
25	SPARE	20					20		SPARE	26
27	SPARE	20					20		SPARE	28
29	SPARE	20					20		SPARE	30

CONDUIT & WIRING SCHEDULE								
CONDUIT	FEEDER	FROM	CONTACTOR NUMBER	TO	FIXTURES	LOAD	CONTACTOR SIZE	REMARKS
P1	EXISTING	-	-	-	-	-	-	-
P2	EXISTING 2" C., WITH NEW 2#8 & 1#10G	PANEL PPL1-2,4 VIA TIME CLOCK AND PHOTOCELL	-	WALKWAY PEDESTRIAN LIGHTING (P1)	11 @ 39W	20A	-	DIRECT BURIED
P3	EXISTING 2" C., EMPTY WITH NYLON PULLSTRING	-	-	-	-	-	-	-
P4	EXISTING	-	-	-	-	-	-	-
P5	EXISTING	-	-	-	-	-	-	-
P6	EXISTING	-	-	-	-	-	-	-
P7	EXISTING	-	-	-	-	-	-	-
P8	EXISTING	-	-	-	-	-	-	-
P9	EXISTING 1" C., WITH NEW 2#8 & 1#10G	PANEL PLL1-6	-	WALKWAY POLE MOUNTED OUTLET	6 @ 180W	15A	-	DIRECT BURIED
P10	EXISTING	-	-	-	-	-	-	-
P11	EXISTING	-	-	-	-	-	-	-
P12	EXISTING	-	-	-	-	-	-	-
P13	EXISTING	-	-	-	-	-	-	-
P14	EXISTING	-	-	-	-	-	-	-
P15	EXISTING	-	-	-	-	-	-	-
P16	EXISTING	-	-	-	-	-	-	-
P17	EXISTING 1" C., WITH NEW 2#8 & 1#10G	PANEL PLL1-12	-	WALKWAY POLE MOUNTED OUTLET	6 @ 180W	15A	-	DIRECT BURIED
P18	EXISTING	-	-	-	-	-	-	-
P19	EXISTING	-	-	-	-	-	-	-
P20	EXISTING	-	-	-	-	-	-	-
P21	EXISTING	-	-	-	-	-	-	-
P22	EXISTING	-	-	-	-	-	-	-

Project:

CITY OF WORCESTER

Dept. of Public Works & Parks



HOLMES PLAYGROUND

Plantation Street

Worcester, MA



427 Main St, Suite 400,

Worcester, MA 01608

508.762.1676 800.SAMPSON

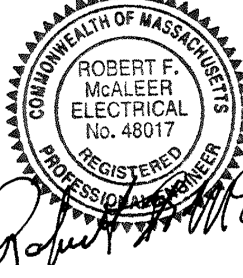
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