

Jul	17	Q	20	125
Ju	ıv	7.	21	12.)

To All Bidders:

Subject: Bid No. 8479-J6 - Great Brook Valley Park Improvements - Phase 1 / DPRC

ADDENDUM NO. 1

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

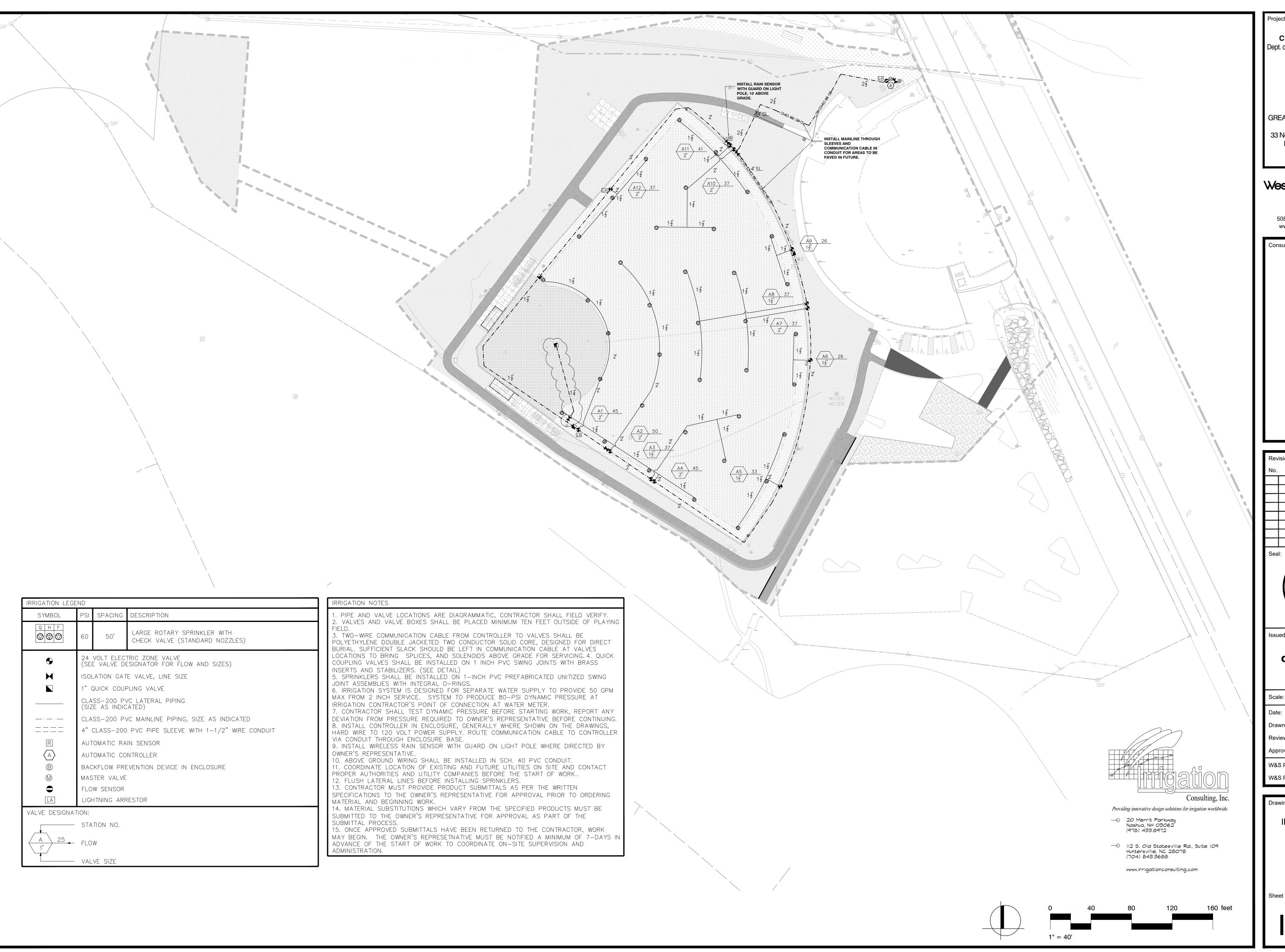
General Bid Clarification:

1. Please see the attached for additional drawings which were initially omitted (Irrigation & Electrical).

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Jerry Kucera Buyer



CITY OF WORCESTER Dept. of Parks, Recreation & Cemetery



GREAT BROOK VALLEY PARKS IMPROVEMENTS 33 Northeast Cutoff, Worcester, Massachusetts 01605

Weston & Sampson

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

Consultants:

Description



Issued For:

PHASE 1 CONSTRUCTION **DOCUMENT**

MARCH 28, 2025 Drawn By:

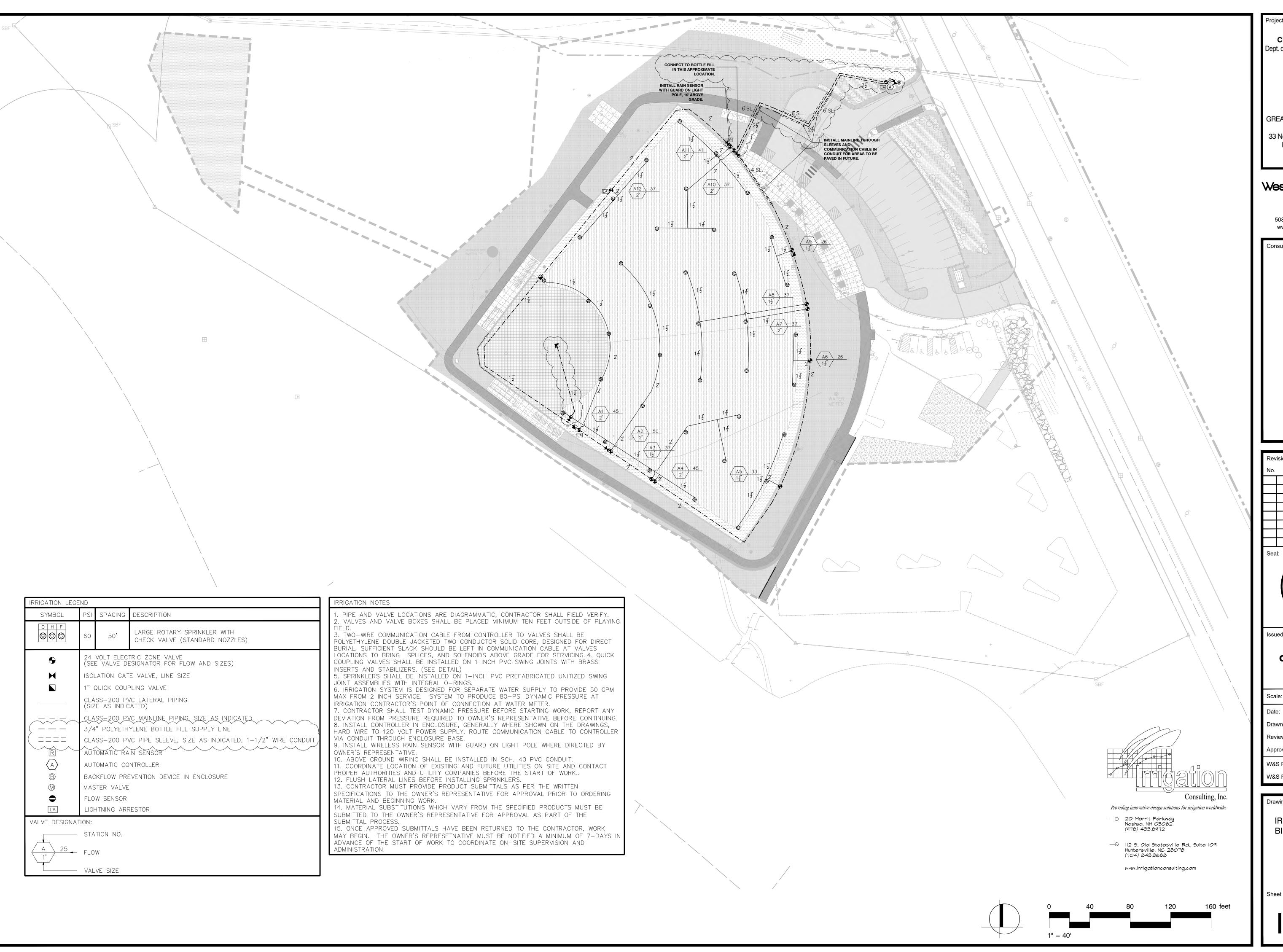
Reviewed By: BEV Approved By: BEV

W&S Project No: W&S File No:

Drawing Title:

IRRIGATION PLAN

Sheet Number:



CITY OF WORCESTER Dept. of Parks, Recreation & Cemetery



GREAT BROOK VALLEY PARKS IMPROVEMENTS 33 Northeast Cutoff, Worcester Massachusetts 01605

Weston & Sampson

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

Consultants:

Description



Issued For:

PHASE 1 CONSTRUCTION **DOCUMENT**

MARCH 28, 2025 Drawn By:

Reviewed By: BEV Approved By: BEV

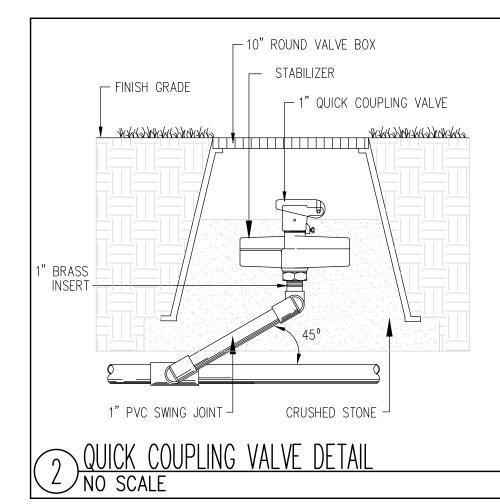
W&S Project No: W&S File No:

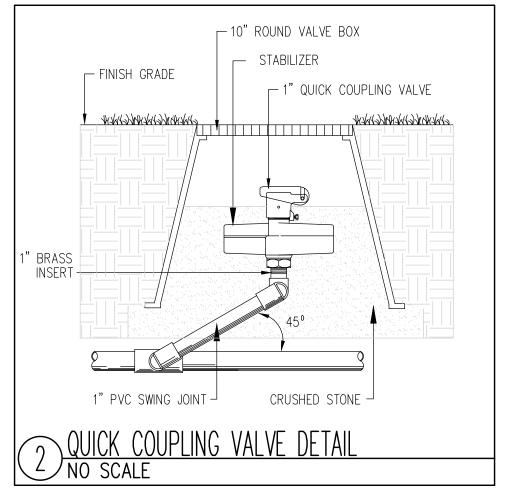
Drawing Title:

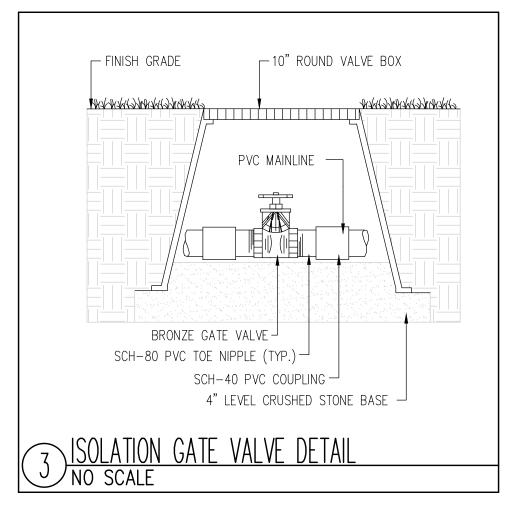
IRRIGATION PLAN -

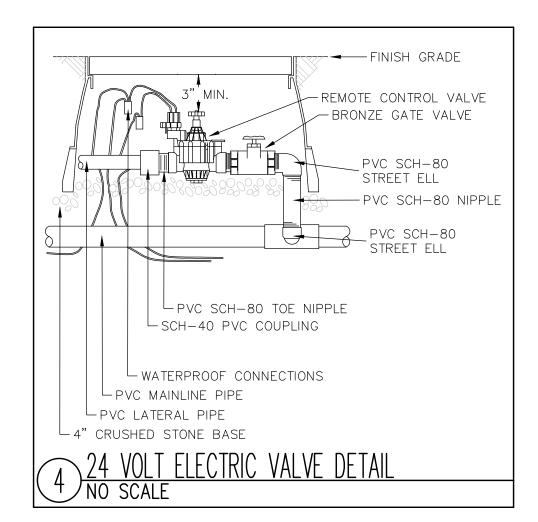
BID ALT 1

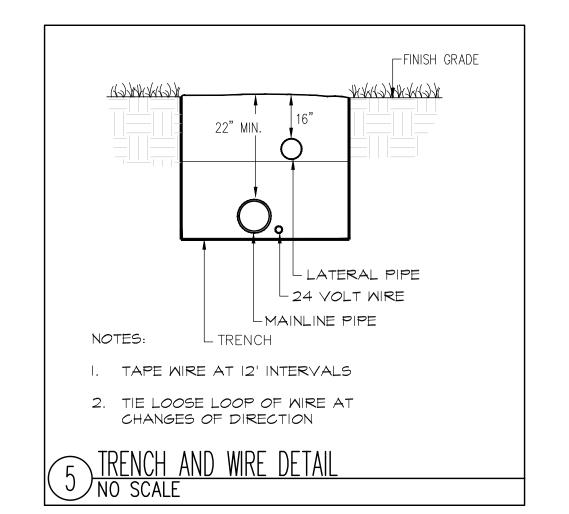
Sheet Number:

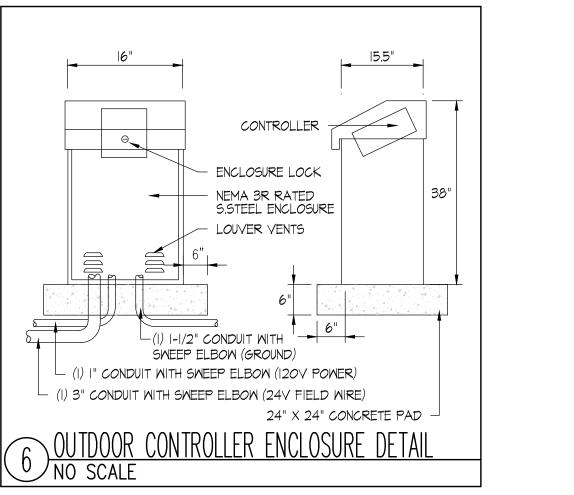












DOWNSTREAM OF WATER METER

2" BALL VALVE —

BACKFLOW AND WATER METER DETAIL NO SCALE

6-INCH CRUSHED STONE BASE

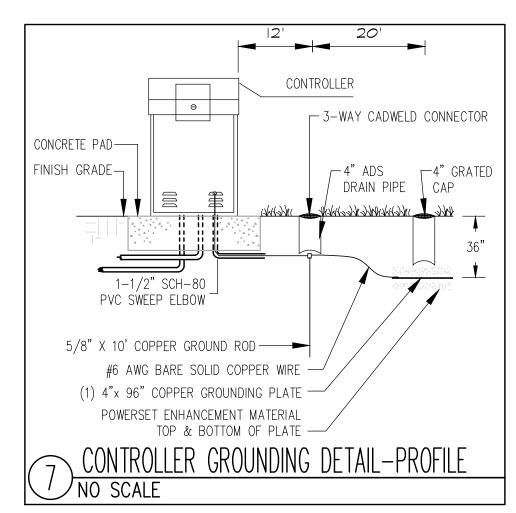
PROVIDE 4-INCH PVC SLEEVES

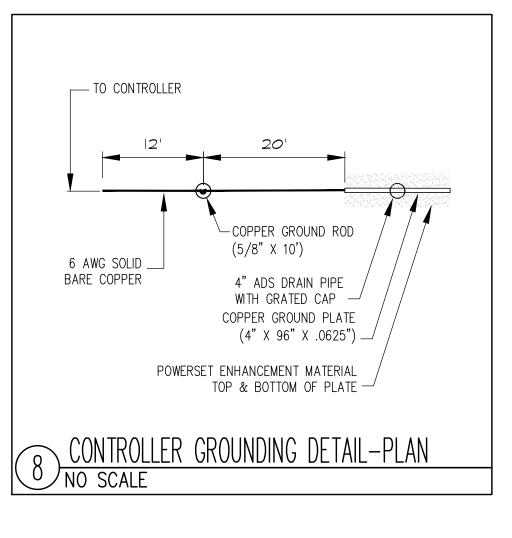
THROUGH CONCRETE AS NECESSARY

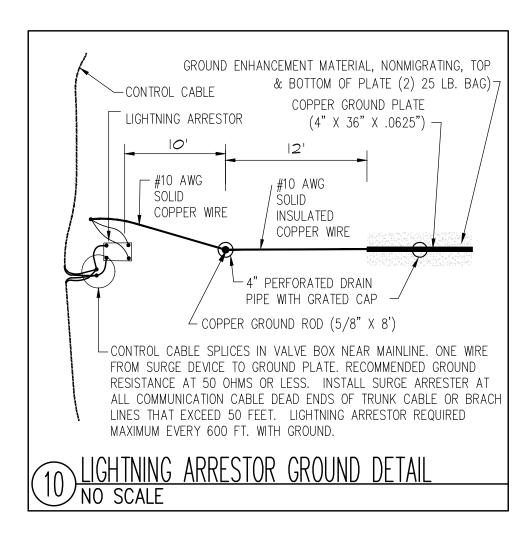
2-1/2"90 DEGREE ELBOW┘

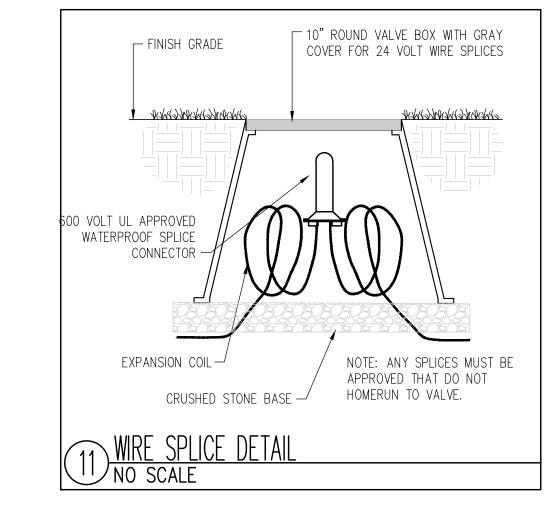
SECTION VIEW

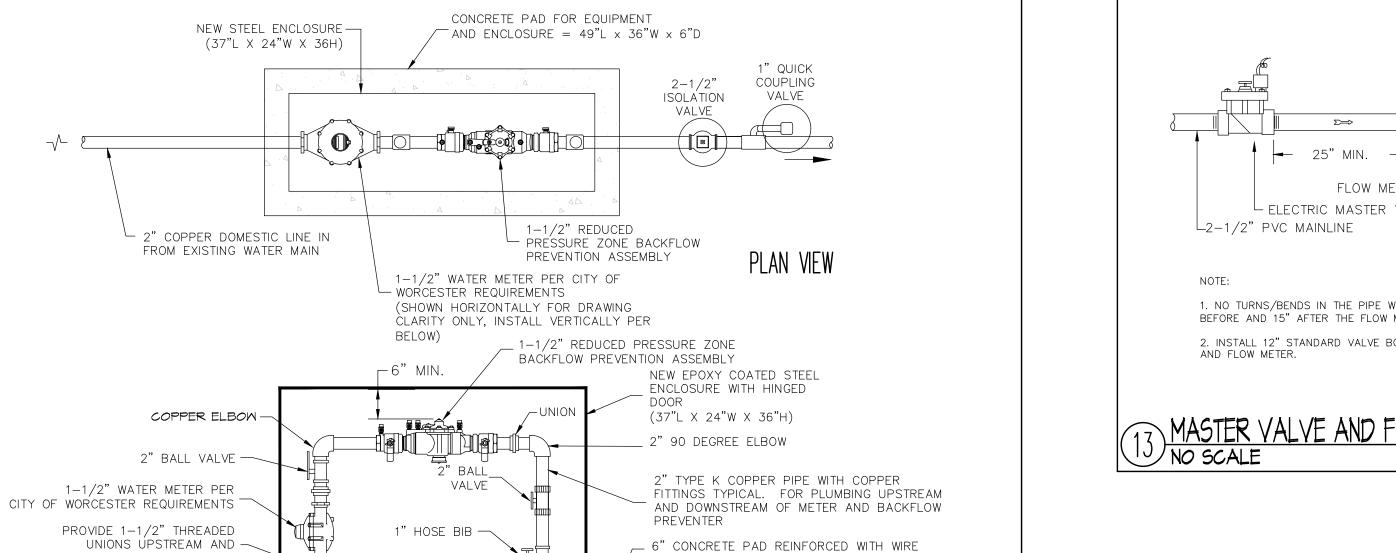
2" X 1-1/2"" BRASS REDUCER BUSHING —











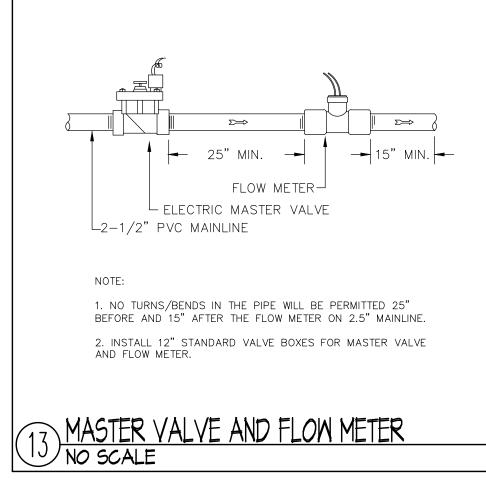
MESH (49" LONG X 36" WIDE)

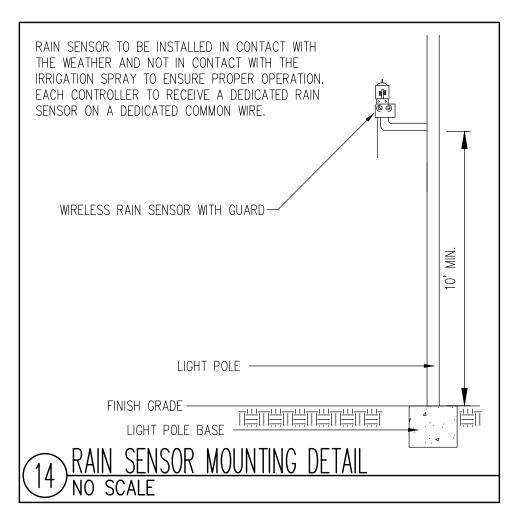
___ 2-1/2" COPPER X PVC TRANSITION COUPLER

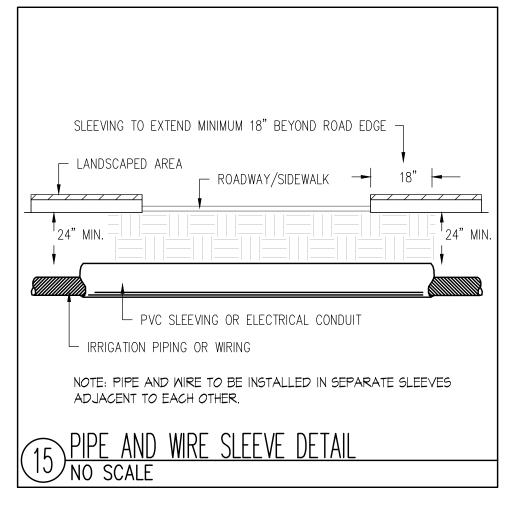
- QUICK COUPLER

── 2-1/2" ISOLATION VALVE

2-1/2" PVC MAINLINE ---



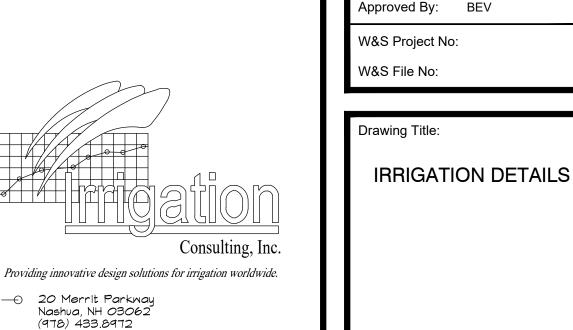






── II2 S. Old Statesville Rd., Suite IO9 Huntersville, NC 28078 (704) 843.3688

www.irrigationconsulting.com



COPYRIGHT 2023 WESTON & SAMPSON

CITY OF WORCESTER Dept. of Parks, Recreation & Cemetery

GREAT BROOK VALLEY PARKS

IMPROVEMENTS

33 Northeast Cutoff, Worcester

Massachusetts 01605

Weston & Sampson

427 Main St, Suite 400,

Worcester, MA 01608

508.762.1676 800.SAMPSON

www.westonandsampson.com

Consultants:

No. Date

Issued For:

Date:

Drawn By:

Sheet Number:

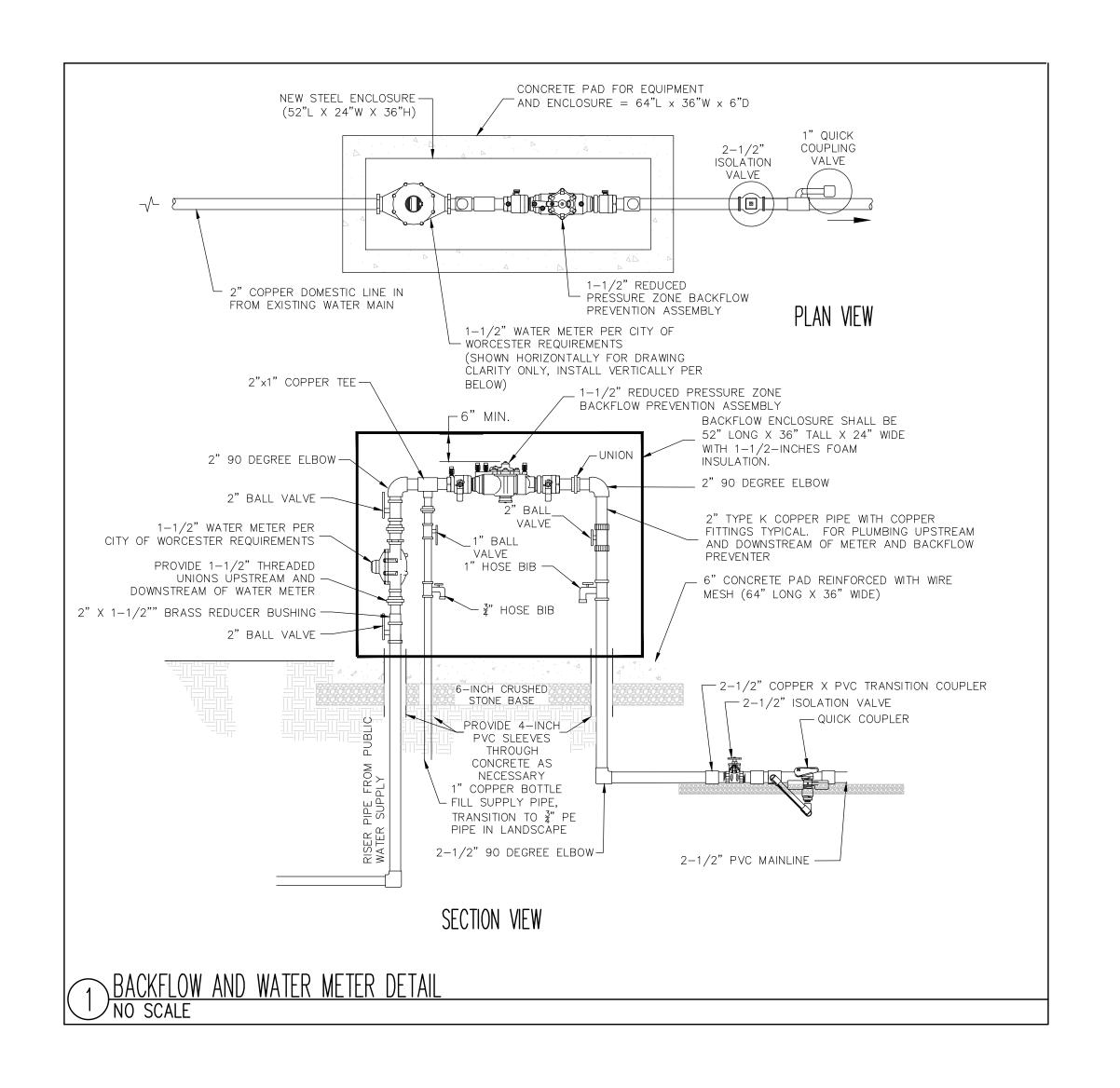
Reviewed By: BEV

PHASE 1

BID DOCUMENTS

MARCH 28, 2025

Description





CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery



GREAT BROOK VALLEY PARKS IMPROVEMENTS 33 Northeast Cutoff, Worcester, Massachusetts 01605

Weston & Sampsoñ

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

	Consultar	nts:		
ı				
I				
ı				
ı				
ı				
ı				
ı				
ı				
ı				
ı				
ı				

Revisions:					
No.	Date	Description			
		_			



Issued For:

PHASE 1
CONSTRUCTION
DOCUMENT

MAY 03, 2025

Scale:

Date:

Drawn By:

Reviewed By: BEV

Approved By: BEV

W&S Project No: W&S File No:

Drawing Title:

IRRIGATION DETAILS BID-ALT 1

Sheet Number:

IR201

Huntersville, NC 28078
(704) 843.3688

www.irrigationconsulting.com

Consulting, Inc.

Providing innovative design solutions for irrigation worldwide.

→ 20 Merrit Parkway Nashua, NH 03062 (978) 433.8972

WWW.irrigationconsulting.com

COPYRIGHT 2023 WESTON & SAMPSON

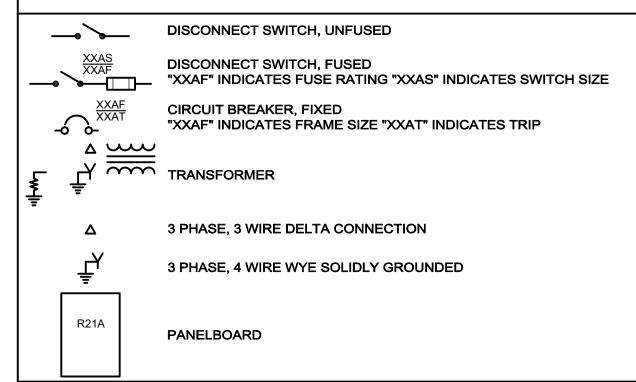
		LIGHTING FIXTURE	SCHEDULE - LED						
	LIGHTING FIXTURE SCHEDULE - LED INPUT								1
TYPE	MANUFACTURERS	CATALOG NUMBER DESCRIPTION COLOR		COLOR	CRI	LUMENS	WATTS	VOLTS	REMARKS
		TLC-LED-900				104,000	2.64kW	VOLIS	MOUNTED AT 70'-0" AFG
			CUSTOM SPORTS LIGHTING SYSTEM	5700K	70	•		400)	MOUNTED AT 25'-0" AFG
A1-A2	MUSCO	CREE OSQ	WITH BRACKET FOR CAMERA AND HANDHOLE AT 25' MOUNTING HEIGHT.			14,473	0.10kW	480V	
		TLC-BT-575				52,000	0.57kW		MOUNTED AT 16'-0" AFG
		TLC-LED-1500	CUSTOM SPORTS LIGHTING SYSTEM			181,000	7.05kW		MOUNTED AT 80'-0" AFG
B1-B2	MUSCO	CREE OSQ	WITH BRACKET FOR CAMERA AND HANDHOLE AT 25' MOUNTING HEIGHT	5700K	70	14,473	0.10kW	480V	MOUNTED AT 25'-0" AFG
		TLC-LED-576				52,000	0.57kW		MOUNTED AT 16'-0" AFG
		TLC-LED-1500	CUSTOM SPORTS LIGHTING SYSTEM			181,000	5.64kW		MOUNTED AT 70'-0" AFG
C1-C2	MUSCO	CREE OSQ	WITH BRACKET FOR CAMERA AND HANDHOLE AT 25' MOUNTING HEIGHT.	5700K	70	14,473	0.10kW	480V	MOUNTED AT 25'-0" AFG
		TLC-BT-575				52,000	1.15KW		MOUNTED AT 16'-0" AFG
		WFCL3-P30-40K-MVOLT-FC5-BK-PR7-AO-PCLL-NYA-1B-SL5-17D-C03-BK-ABG-RP210A-FGIUL-BK-ASSY27169	WASHINIGTON LED POST-TOP FULL CUTOFF LANTERN, 60W, 4000 SERIES CCT TYPE V DISTRIBUTION, ZERO	4000K				MVOLT	MOUNTED ON 18' POLE
LA	HOLOPHANE	TNUT3/8-125MS			80	7,000	60		CONFIRM TOP FINIAL WITH
		SLAUXWIREL5BK-RFD319317	UPLIGHT, CLEAR LENS MOUNTED ON 25' POLE						OWNER/LANDSCAPE ARCH.
LB	ALCON	16008-26W-30K-BK-OS	LED CANOPY LIGHT WITH INTEGRAL OCCUPANCY SENSOR.		3000K 80	3,372	26	MVOLT	
			LED FLAG POLE LIGHT WITH INGROUND DRIVER AND PHOTOCELL	000014		1,050	13		CONFIRM LOW VOLTAGE CABLE LENGTH WITH LANDSCAPE
LC	EAGLE MOUNTAIN FLAG	SG-3K-EHS-CBA-M-CBA-SG-IG-DRIVER-PHOTOCELL		3000K	75			277	ARCHITECT. FINISH BY LANDSCAPE ARCHITECT.
		ACC-P153-MVOLT-ZT-R4-4K-20K-NTR-NBR		4000K		3,900	26		
LD	AMERICAN ELECTRIC LIGHTING	POLE: SSA-D01-AD2-BK-ABG-ATBODECOS-BK-ASSY36064	ACC P153 PERFORMANCE PACKAGE ROADWAY TYPE IV DISTRIBUTION		80			MVOLT	BID ALTERNATE 1
			MOUNTED ON 20' POLE.						
		ACC-P153-MVOLT-ZT-R5-4K-20K-NTR-NBR	ACC P153 PERFORMANCE PACKAGE						
LE	AMERICAN ELECTRIC LIGHTING	POLE: SSA-D01-AD2-BK-ABG-ATBODECOS-BK-ASSY36064	ROADWAY TYPE V DISTRIBUTION MOUNTED ON 20' POLE.	4000K	80	3,900	26	MVOLT	BID ALTERNATE 1
NOTES:									

- NOTES 2-3 APPLY TO ALL APPLICABLE LIGHTING FIXTURES. THE REMARKS COLUMN SHALL NOTE ADDITIONAL REQUIREMENTS.
- 2. VERIFY EXACT MOUNTING CONDITIONS AND PROVIDE APPROPRIATE ACCESSORIES AND HARDWARE TO ACCOMMODATE REQUIREMENTS. 3. SPORTS LIGHTING SYSTEM IS BASED ON SLG SPORTS LIGHTING SYSTEM. ALL COSTS RELATED TO THE SUBSTITUTED SYSTEM INCLUDING INCREASED FIXTURE QUANTITY/RELATED BRANCH
- CIRCUITRY, ETC, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL DEMOLITION NOTES

- REFER TO THE CIVIL/LANDSCAPE DRAWINGS FOR THE EXTENT OF THE DEMOLITION SCOPE OF WORK AND AREA. THE DEMOLITION PLANS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH VARIOUS REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE ELECTRICAL DEMOLITION PLANS ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING THE DEMOLITION.
- PERFORM ELECTRICAL DEMOLITION WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN COOPERATION WITH THE OTHER TRADES AND AS SCHEDULED AND APPROVED BY THE OWNER'S REPRESENTATIVE. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE ELECTRICAL, LANDSCAPE AND CIVIL PLANS.
- THE LOCATIONS OF EXISTING EQUIPMENT ARE SHOWN IN AN APPROXIMATE WAY ONLY. VISIT THE SITE PRIOR TO SUBMISSION OF THE BIDS AND COMMENCEMENT OF WORK TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF THE
- CDE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE.
- EXERCISE CARE WITH EQUIPMENT THAT IS TO BE RELOCATED OR TURNED OVER TO THE OWNER. EXAMINE THE EQUIPMENT BEFORE REMOVAL IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO DETERMINE ITS CONDITION. DELIVER OWNER-RETAINED EQUIPMENT TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER AND OBTAIN ACKNOWLEDGMENT OF RECEIPT IN ORIGINAL CONDITION.
- ALL ITEMS REMOVED SHALL BE OFFERED TO THE OWNER FOR SALVAGE. IF THE OWNER DOES NOT TAKE POSSESSION, DISPOSE OF THE ITEMS IN A SAFE AND LEGAL MANNER. ALL ITEMS CLASSIFIED AS HAZARDOUS SHALL BE DISPOSED AS HAZARDOUS WASTES AND A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PROVIDED TO THE
- NOTIFY UTILITY COMPANIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO DEMOLITION. VERIFY THAT THE UTILITIES HAVE BEEN DISCONNECTED, CAPPED AND MADE SAFE PRIOR TO DEMOLITION.
- ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
- REMOVED HID LAMPS SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE.
- 11. ALL BALLASTS IN LIGHTING FIXTURES TO BE DISPOSED SHALL BE VERIFIED TO BE PCB FREE. ALL BALLASTS MANUFACTURED PRIOR TO 1979 AND NOT LABELED AS PCB FREE SHALL BE CONSIDERED TO CONTAIN PCBS. PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE THAT CONFIRMS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLASTS SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION.

ONE LINE SYMBOLS LEGEND



ELECTRICAL GENERAL NOTES:

1. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR ASSOCIATED NOTES, DETAILS AND EXACT LOCATION OF ALL EQUIPMENT.

2. CIRCUIT NUMBERS DENOTE CIRCUITING INTENT. EXACT NUMBER DESIGNATIONS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON THE AS BUILT DRAWINGS. INTERCONNECTING BRANCH WIRING SHALL BE SIZED EQUAL TO THE HOMERUN UNLESS NOTED OTHERWISE.

3. VOLTAGE DROP HAS BEEN CONSIDERED IN THE DESIGN OF ALL BRANCH CIRCUITRY AND FEEDER SIZES BASED ON EQUIPMENT LAYOUTS AND SHORTEST CONDUCTOR/RACEWAY ROUTING. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEVIATIONS TAKEN THAT WILL INCREASE CONDUCTOR/RACEWAY LENGTHS. BRANCH CIRCUITS LONGER THAN 75' FOR 120V FROM PANEL TO LAST OUTLET SHALL BE INCREASED A MINIMUM OF ONE SIZE ABOVE THAT SPECIFIED TO LIMIT VOLTAGE DROP TO LESS THAN 3%. FEEDERS SHALL FOLLOW SIMILAR GUIDELINES AND BE LIMITED TO A 2% DROP.

4. ALL SPORTS LIGHTING AND SITE LIGHTING (WALKWAY, PARKING LOT, ETC) SHALL BE CONTROLLED VIA THE SPORTS LIGHTING CONTROLLER.

WIRING DEVICE LEGEND

SURFACE MOUNTED TAMPER RESISTANTDUPLEX RECEPTACLE, **GROUNDING TYPE, RATED 20A, 125V** "5"- INDICATES CIRCUIT NUMBER "GFI"- INDICATES INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER "WP" - INDICATES WEATHERPROOF. PROVIDE IN-USE COVER

BRANCH CIRCUIT & FEEDER LEGEND BRANCH CIRCUIT OR FEEDER CONCEALED IN FINISHED AREAS ---- BRANCH CIRCUIT OR FEEDER, CONCEALED IN OR UNDER FLOOR SLAB BRANCH CIRCUIT OR FEEDER TURNING UP TOWARDS OBSERVER BRANCH CIRCUIT OR FEEDER TURNING DOWN AWAY FROM OBSERVER CONDUIT STUBBED ABOVE CEILING BRANCH CIRCUIT HOME RUN TICKS INDICATE QUANTITY OF

CONDUCTORS, GROUND CONDUCTORS ARE NOT INDICATED. NO TICKS INDICATES 2#12 & 1#12G IN 3/4"C MINIMUM, R22A-1.3.5 INDICATES PANEL AND CIRCUIT DESIGNATION FROM WHICH HOMERUN SHALL ORIGINATE. EACH CIRCUIT SHALL BE 20A-1P (20AMP SINGLE POLE) UNLESS NOTED

FLEXIBLE CONNECTION TO EQUIPMENT. RACEWAY AND CONDUCTOR RATING TO MATCH ASSOCIATED BRANCH CIRCUIT OR FEEDER

POWER DISTRIBUTION

208Y/120 VOLT PANELBOARD, SURFACE MOUNTED REFER TO PANELBOARD SCHEDULE 480Y/277 VOLT PANELBOARD, SURFACE MOUNTED REFER TO PANELBOARD SCHEDULE **GROUND BAR** DRY TYPE TRANSFORMER

MOTOR & CONTROLS LEGEND

FUSED DISCONNECT SWITCH, 3-POLE, IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED. "4X" - INDICATES NEMA TYPE 4X ENCLOSURE "60AS" - INDICATES 60AMP SWITCH "50AF" - INDICATES 50AMP FUSES

LIGHTING FIXTURE LEGEND

SPORTS LIGHTING FIXTURE $F1_{\Delta\Delta\Delta\Delta}_2$ "F1" - INDICATES FIXTURE TYPE "2" - INDICATES CIRCUIT NUMBER POLE MOUNTED LIGHTING FIXTURE INGROUND LED FIXTURE WALL MOUNTED LIGHTING FIXTURE

SWITCH LEGEND

SINGLE POLE SWITCH, RATED 20A, 120/277V "a" LOWER CASE LETTER INDICATES FIXTURE SWITCH CONTROL

SITE LEGEND **ELECTRIC HAND HOLE** TELEPHONE HAND HOLE ──UE── UNDERGROUND ELECTRIC ──UT── UNDERGROUND TELEPHONE ──○E── OVERHEAD ELECTRIC —OT— OVERHEAD TELEPHONE

EXISTING EQUIPMENT LEGEND

	NOTING EQUIT MENT ELUCIAD
ХМ	EXISTING EQUIPMENT TO REMAIN
x	EXISTING EQUIPMENT TO BE REMOVED
XR	EXISTING EQUIPMENT TO BE RELOCATED
XN	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT
NR	EXISTING EQUIPMENT TO BE REMOVED AND NEW EQUIPMENT TO BE INSTALLED ON EXISTING BRANCH/FEEDER
	EXISTING EQUIPMENT FOR INFORMATION ONLY-INDICATED BY SYMBOL WITH LIGHT AND OUT OF FUNCTION LINETYPE
[]	EXISTING EQUIPMENT TO BE REWORKED- INDICATED BY SYMBOL WITH DASHED AND IN FUNCTION LINE TYPE

ARREVIATIONS

	ABBREVIATIONS					
A/AMP	AMPERE	KWH	KILOWATT HOURS			
AC	ALTERNATING CURRENT	LTG	LIGHTING			
ADA	AMERICAN WITH DISABILITIES ACT	мсв	MAIN CIRCUIT BREAKER			
AF	AMPERE FRAME	MEC	MASSACHUSETTS ELECTRICAL CODE			
AFF	ABOVE FINISHED FLOOR	M/G	MOTOR/GENERATOR SET			
AFG	ABOVE FINISHED GRADE	МН	MANHOLE			
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY			
AL	ALUMINUM	MTD	MOUNTED			
AT	AMPERE TRIP	MTG	MOUNTING			
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED CONTACT			
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE			
В	BURIED	NO	NORMALLY OPEN CONTACT			
С	CONDUIT	NTS	NOT TO SCALE			
CA	CABLE	#	NUMBER			
CATV	CABLE TELEVISION	OPD	OVER CURRENT PROTECTION DEVICE			
ссту	CLOSED CIRCUIT TELEVISION SYSTEM	POS	PROVIDED UNDER OTHER SECTIONS			
СВ	CIRCUIT BREAKER	PVC	POLYVINYL CHLORIDE			
скт	CIRCUITS	PWR	POWER			
CPU	CENTRAL PROCESSING UNIT	RGS	RIGID GALVANIZED STEEL			
€.	CENTERLINE	RMS	ROOT MEAN SQUARE VALUE			
dB	DECIBEL	RPM	REVOLUTIONS PER MINUTE			
DC	DIRECT CURRENT	SPD	SURGE PROTECTIVE DEVICE			
DWG	DRAWING	SN	SOLID NEUTRAL			
EC	ELECTRICAL CONTRACTOR	SWBD	SWITCHBOARD			
EMT	ELECTRIC METALLIC TUBING	ТВ	TERMINAL BLOCK			
FDR	FEEDER	TEL	TELEPHONE			
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	TERMN	TERMINAL			
FREQ	FREQUENCY	TSP	TWISTED SHIELDED-PAIR			
GEC	GROUNDING ELECTRODE CONDUCTOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER			
GFI	GROUND FAULT INTERRUPTING	TYP	TYPICAL			
GND	GROUND	UG	UNDERGROUND			
нн	HANDHOLE	UNO	UNLESS NOTED OTHERWISE			
HP	HORSEPOWER	UPS	UNINTERRUPTIBLE POWER SUPPLY			
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UTP	UNSHIELDED TWISTED-PAIR			
HZ	HERTZ	V	VOLTS			
IG	ISOLATED GROUND	VA	VOLT-AMPERE			
l IB	ILINICTION BOY	VCD	VADIABLE CREED DRIVE			

VARIABLE SPEED DRIVE

WEATHERPROOF

WATTS

JUNCTION BOX

KILOWATT

KILOVOLT-AMPERE

CITY OF WORCESTER Dept. of Parks, Recreation & Cemetery GREAT BROOK VALLEY PARKS **IMPROVEMENTS** 33 Northeast Cutoff, Worcester

Weston & Sampson

Massachusetts 01605

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

	Consultants:

Revisions: No. Date Description Issued For:

PHASE 1 BID DOCUMENTS

AS NOTED Date: MARCH 31, 2025 Drawn By: Reviewed By: KEG

Approved By: KEG W&S Project No: 24-0000416 W&S File No:

Drawing Title:

Sheet Number:

ELECTRICAL

NOTES:

NOTES:

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES.

	KEYNOTES					
1>	REFER TO DETAIL ON DRAWING E300 FOR ADDITIONAL INFORMATION. EXACT QUANTITY AND LOCATION OF BOLLARDS SHALL BE PROVIDED IN ACCORDANCE WITH NGRID REQUIREMENTS.					
2	SEE DIRECT BURIED CONDUIT SCHEDULE FOR ADDITIONAL INFORMATION.					
3	QUAD RECEPTACLE SHALL BE MOUNTED TO FENCE POST AT 18" AFG. PROVIDE CAST ALUMINIUM WORKBOX WITH RIGID STEEL CONDUIT FOR ALL ABOVE GRADE LOCATIONS. UTILIZE RIGID STEEL SWEEPS FOR TRANSITION FROM BELOW GRADE PVC SCHEDULE 40 CONDUIT.					
4	PROVIDE LOCKABLE DISCONNECT SWITCH MOUNTED TO SCOREBOARD SUPPORT STRUCTURE. PROVIDE RIGID STEEL CONDUIT FOR ALL ABOVE GRADE LOCATIONS. UTILIZE RIGID STEEL SWEEPS FOR TRANSITION FROM BELOW GRADE PVC SCHEDULE 40 CONDUIT. UTILIZE LIQUID TIGHT FLEXIBLE CONDUIT FOR TERMINATION AT SCOREBOARD.					
5	FOR FUTURE FIELDS. CONDUIT SHALL BE STUBBED OUT WITHIN 4'-0" OF EQUIPMENT ENCLOSURE AND AT 6" AFG WITHIN EQUIPMENT ENCLOSURE. CONDUIT SHALL BE CAPPED AT BOTH ENDS TO PREVENT RODENT INFILTRATION.					
6	HANDHOLE DIMENSIONS SHALL BE 30"X30" MINIMUM					
7	RECEPTACLE SHALL BE MOUNTED ADJACENT TO POLE BASE. PROVIDE RIGID STEEL CONDUIT/SWEEP FOR ABOVE GRADE INSTALLATION. RECEPTACLE SHALL BE MOUNTED IN CAST ALUMINUM WORKBOX. PROVIDE LOCKABLE CAST ALUMINUM WEATHERPROOF COVER.					

REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

	1 REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.		
			T1 TELECO
			12 SOUND
		NOTE	ES:
G LC DL4A-20 UT UE		1. AL	L CONDUIT SHA
C LC OL4A-20 UE UE	•	INFO	RMATION.
Θ $OL4A-20$		BUTI	EFER TO THE SF NOT LIMITED TO
C L4A-25 C C180 (C)		3. AL	NDED FOR VEHI
		5. BF	ROVIDE ALL EMP RANCH CIRCUIT
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		WHA	•
© \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	v 0	XM	
	1 PROTECTION BOLLARD (TYP)	EXISTI POLE #	ING UTILITY #17
\$\frac{1}{2}\text{\$\frac{1}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}{2}\text{\$\frac{1}\text{\$\frac{1}\text{\$\frac{1}\text{\$\frac{1}{2}\text{\$\frac{1}\text{\$\frac{1}	TELECOM EQUIPMENT — XM ~ EX	XISTING UTILITY	
14A-13 L4A-14 WI		POLE #17-S-1	
\mathcal{F}			
FOR FUTURE FIELD— NEW SCOREBOARD 100 100 100 100 100 100 100 100 100 1	ELECTRICAL EQUIPMENT ENCLOSURE 'A'		
		s /	
A1 AA-1 AA-1 AA-1 AA-1 AA-1 AA-1 AA-1 A			
/ (/ \\			
/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/ NEW UTILITY CO	o.	
BASEBALL DUGOUT 'A'	PAD-MOUNTED TRANSFORMER	8	
\mathcal{S}	L4A-25/7		
SOUND SYSTEM GEI,WP			
HEAD END / (D)	TYP.) ② F25	,	
P2A-3 GFI,WP 3			
17 A2 L4A-7 L4A-14			
UT UE B	A-8 2 \ \		
	A-14 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
B2 L4A-19 L4A-14			
E260 //			
			\
Ŷ GFI,WP P2A-14 Q		^	
VP2A-14Ψ () (Ex)			
TO FUTURE Q	FOR FUTURE HANDBALL AND BASKETBALL COURTS		
	E		
(L4A-27)			

ELECTRICAL SITE PLAN SCALE: 1"=40'-0"

TAG	DESCRIPTION	CONDUIT	CONDUCTOR
A1	SPORTS A1(BASEBALL)	_ 1 "	3#10+#10G
	SPORTS A1 (SECURITY)	'	3#10+#10G
A2	SPORTS A2 (BASEBALL)	- 1"	3#10+#10G
	SPORTS A2 (SECURITY)	'	3#10+#10G
В1	SPORTS B1 (BASEBALL)	- 1 "	3#10+#10G
	SPORTS B1 (SECURITY	•	3#10+#10G
B2	SPORTS B2 (BASEBALL)	- - 1"	3#10+#10G
DZ	SPORTS B2 (SECURITY)		3#10+#10G
C1	SPORTS C1 (BASEBALL)	- 1"	3#10+#10G
C1	SPORTS C1 (SECURITY)		3#10+#10G
00	SPOTS C2 (BASEBALL)	- 1"	3#10+#10G
C2	SPORTS C2 (SECURITY)		3#10+#10G
F1	FUTURE SOCCER FIELD	(2)-4"C	NOTE 4
F2	FUTURE HANDBALL/BASKETBALL	(2)-4"C	NOTE 4
	PEDESTRIAN LIGHTING	- 1"	2#10+#10G
L1	PEDESTRIAN LIGHTING RECEPTACLE		2#10+#10G
L2	STAIR LIGHTING	2"	NOTE 4,5
LC	FLAGPOLE LIGHTING	1"	2#10+#10G
D4	COOPERAND	411	0#40:#400
P1	SCOREBOARD	1"	2#10+#10G
P2	DUGOUT QUAD RECEPTACLE	1"	2#10+#10G
P3	SOUND SYSTEM	1"	
SP1	SPARE(FUTURE FIELDS)	(6)-4"C	NOTE 4
T1	TELECOM	2"	NOTE 4
T2	SOUND SYSTEM	2"	NOTE 4

- SHALL BE DIRECT BURIED UNLESS OTHERWISE INDICATED. F BURIED CONDUIT DETAIL ON DRAWING E300 FOR ADDITIONAL
- SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING TO REINFORCEMENT REQUIRED UNDER PAVED AREAS EHICULAR TRAFFIC .
- ORS SHALL BE SUITABLE FOR WET LOCATIONS.
- MPTY/SPARE CONDUIT WITH NYLON PULL STRING.
- JIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY

	TAG	DESCRIPTION	CONDUIT	CONDUCTORS
-				
		SCOREBOARD	1"	2#10+#10G
		SPORTS C1		3#10+#10G
		SPORTS C1 SECURITY		3#10+#10G
		PEDESTRIAN LIGHTING RECEPT		2#1+#1G
		PEDESTRIAN LIGHTING	4"	2#10+#10G
		FLAGPOLE LIGHTING		2#8+#8G
		SPORTS C1		3#10+#10G
	4			
	1	SPORTS C1 SECURITY		3#10+#10G
		SPORTS B1		3#8+#8G
		SPORTS B1 SECURITY		3#10+#10G
		PEDESTRIAN LIGHTING RECEPT		2#1+#1G
		PEDESTRIAN LIGHTING	4"	2#10+#10G
		SPORTS A1		3#10+#10G
		SPORTS A1 SECURITY		3#10+#10G
		DUGOUT A QUAD RECEPTACLE		2#1+#1G
-		SPORTS C1		
				3#10+#10G
		SPORTS C1 SECURITY		3#10+#10G
		PEDESTRIAN LIGHTING RECEPT	4"	2#1+#1G
		PEDESTRIAN LIGHTING		2#10+#10G
		FLAGPOLE LIGHTING		2#8+#8G
		SPORTS B1		3#8+#8G
	2	SPORTS B1 SECURITY		3#10+#10G
		PEDESTRIAN LIGHTING RECEPT		2#1+#1G
			4 11	
		PEDESTRIAN LIGHTING	4"	2#10+#10G
		SPORTS A1		3#10+#10G
		SPORTS A1 SECURITY		3#10+#10G
		DUGOUT A QUAD RECEPTACLE		2#1+#1G
		PEDESTRIAN LIGHTING RECPT		2#1+#1G
		PEDESTRIAN LIGHTING	4"	2#10+#10G
		FLAGPOLE LIGHTING		2#8+#8G
		SPORTS B1		3#8+#8G
	3	SPORTS B1 SECURITY	-	3#10+#10G
		PEDESTRIAN LIGHTING RECPT	4"	2#1+#1G
		PEDESTRIAN LIGHTING		2#10+#10G
		SPORTS A1		3#10+#10G
		SPORTS A1 SECURITY		3#10+#10G
		DUGOUT A QUAD RECEPTACLE		2#1+#1G
		SPORTS A1		3#10+#10G
	4	SPORTS A1 SECURITY	2"	3#10+#10G
	7	DUGOUT A QUAD RECEPTACLE	_	
				2#1+#1G
		PEDESTRIAN LIGHTING RECEPT		2#8+#8G
		PEDESTRIAN LIGHTING		2#10+#10G
		SPORTS C2	4"	3#10+#10G
		SPORTS C2 SECURITY	4	3#10+#10G
		PEDESTRIAN LIGHTING RECEPT		2#3+#3G
		PEDESTRIAN LIGHTING		2#10+#10G
	5	STAIR LIGHTING	1"	NOTE 4
	-	SPORTS B2	•	3#8+#8G
		SPORTS B2 SECURITY		3#10+#10G
		SPORTS A2	4"	3#10+#10G
		SPORTS A2 SECURITY		3#10+#10G
		DUGOUT B QUAD RECEPTACLE		2#1+#1G
		SOUND SYSTEM CABINET		2#1+#1G
		STAIR LIGHTING	1"	NOTE 4
		PEDESTRIAN LIGHTING RECPT	-	2#3+#3G
		PEDESTRIAN LIGHTING	2"	2#10+#10G
		SPORTS B2		3#8+#8G
	6	SPORTS B2 SECURITY		3#10+#10G
		SPORTS A2	4"	3#10+#10G
		SPORTS A2 SECURITY	-	3#10+#10G
		DUGOUT B QUAD RECEPTACLE		2#1+#1G
		SOUND SYSTEM CABINET		2#1+#1G
\vdash		SPORTS B2		
				3#8+#8G
		SPORTS B2 SECURITY		3#10+#10G
	7	SPORTS A2	4"	3#10+#10G
	•	SPORTS A2 SECURITY	•	3#10+#10G
		DUGOUT B QUAD RECEPTACLE		2#1+#1G
		SOUND SYSTEM CABINET		2#1+#1G
		SPORTS A2		3#10+#10G
		SPORTS A2 SECURITY		3#10+#10G
	8		4"	
		DUGOUT B QUAD RECEPTACLE		2#1+#1G
		SOUND SYSTEM CABINET		2#1+#1G

DIRECT BURIED CONDUIT SCHEDULE

- 3. ALL CONDUCTORS SHALL BE SUITABLE FOR WET LOCATIONS.
 4. PROVIDE ALL EMPTY/SPARE CONDUIT WITH NYLON PULL STRING.
- 5. BRANCH CIRCUIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY

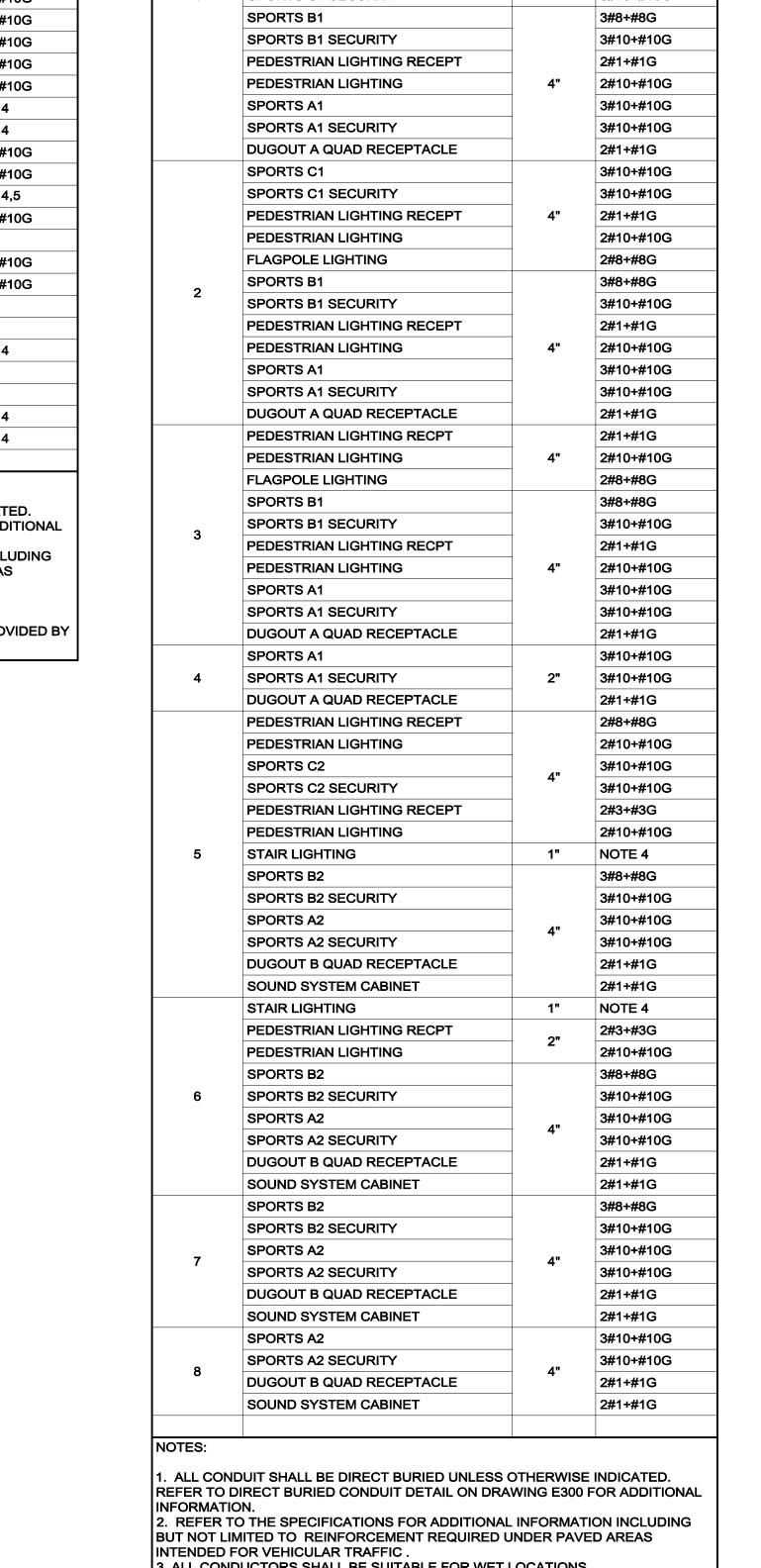
W&S File No:

Drawing Title:

ELECTRICAL SITE PLAN

Sheet Number:

COPYRIGHT 2023 WESTON & SAMPSON



CITY OF WORCESTER Dept. of Parks, Recreation & Cemetery

GREAT BROOK VALLEY PARKS

Weston & Sampson

IMPROVEMENTS 33 Northeast Cutoff, Worcester, Massachusetts 01605

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

Consultants: Andover, MA 01810-1488 T. 978-296-6200 F. 978-296-6201

Description

Revisions:

No. Date

Issued For: PHASE 1 **BID DOCUMENTS**

1"=40'-0" Date: MARCH 31, 2025

Drawn By: Reviewed By: KEG

Approved By: KEG W&S Project No: 24-0000416

NOTES:

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES.

	KEYNOTES
$\langle 1 \rangle$	REFER TO DETAIL ON DRAWING E300 FOR ADDITIONAL INFORMATION. EXACT QUANTITY AND LOCATION OF BOLLARDS SHALL BE PROVIDED IN ACCORDANCE WITH NGRID REQUIREMENTS.
2	SEE DIRECT BURIED CONDUIT SCHEDULE FOR ADDITIONAL INFORMATION.
3	QUAD RECEPTACLE SHALL BE MOUNTED TO FENCE POST AT 18" AFG. PROVIDE CAST ALUMINIUM WORKBOX WITH RIGID STEEL CONDUIT FOR ALL ABOVE GRADE LOCATIONS. UTILIZE RIGID STEEL SWEEPS FOR TRANSITION FROM BELOW GRADE PVC SCHEDULE 40 CONDUIT.
4	PROVIDE LOCKABLE DISCONNECT SWITCH MOUNTED TO SCOREBOARD SUPPORT STRUCTURE. PROVIDE RIGID STEEL CONDUIT FOR ALL ABOVE GRADE LOCATIONS. UTILIZE RIGID STEEL SWEEPS FOR TRANSITION FROM BELOW GRADE PVC SCHEDULE 40 CONDUIT. UTILIZE LIQUID TIGHT FLEXIBLE CONDUIT FOR TERMINATION AT SCOREBOARD.
(5)	FOR FUTURE FIELDS. CONDUIT SHALL BE STUBBED OUT WITHIN 4'-0" OF EQUIPMENT ENCLOSURE AND AT 6" AFG WITHIN EQUIPMENT ENCLOSURE. CONDUIT SHALL BE CAPPED AT BOTH ENDS TO PREVENT RODENT INFILTRATION.
6	HANDHOLE DIMENSIONS SHALL BE 30"X30" MINIMUM
\(\frac{1}{7} \)	RECEPTACLE SHALL BE MOUNTED ADJACENT TO POLE BASE. PROVIDE RIGID STEEL CONDUIT/SWEEP FOR ABOVE GRADE INSTALLATION. RECEPTACLE SHALL BE MOUNTED IN CAST ALUMINUM WORKBOX. PROVIDE LOCKABLE CAST ALUMINUM

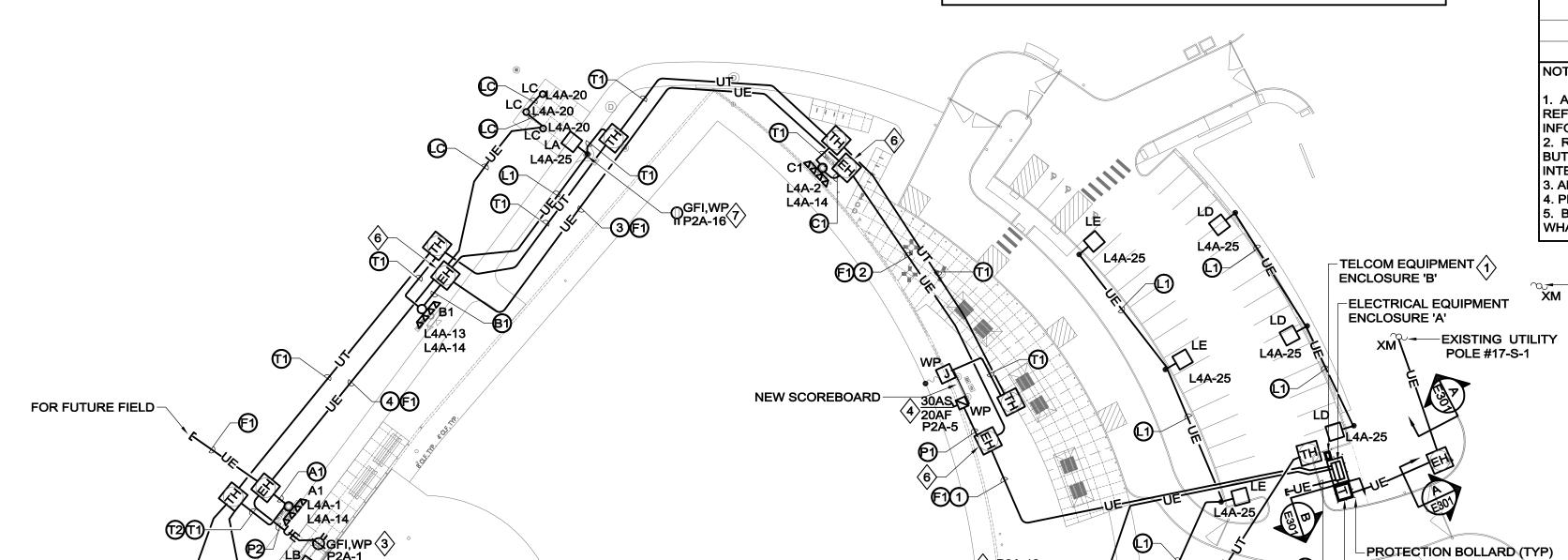
REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

WEATHERPROOF COVER.

(TYP.) ② [35]

FOR FUTURE HANDBALL

AND BASKETBALL COURTS



GFI,WP P2A-14 (1)

ELECTRICAL SITE PLAN

SCALE: 1"=40'-0"

TO FUTURE

STAIR LIGHTING (L4A-27)

BASEBALL DUGOUT 'A'

BASEBALL DUGOUT 'B'

SOUND SYSTEM-HEAD END EQUIPMENT

	DIRECT BURIED CONDUIT SO	CHEDULE	
TAG	DESCRIPTION	CONDUIT	CONDUCTORS
A1	SPORTS A1(BASEBALL)	- 1"	3#10+#10G
A'	SPORTS A1 (SECURITY)		3#10+#10G
A2	SPORTS A2 (BASEBALL)	- 1"	3#10+#10G
A2	SPORTS A2 (SECURITY)		3#10+#10G
B1	SPORTS B1 (BASEBALL)	- 1"	3#10+#10G
P'	SPORTS B1 (SECURITY		3#10+#10G
DO.	SPORTS B2 (BASEBALL)	- 1"	3#10+#10G
B2	SPORTS B2 (SECURITY)	1	3#10+#10G
64	SPORTS C1 (BASEBALL)	- 1"	3#10+#10G
C1	SPORTS C1 (SECURITY)	1	3#10+#10G
62	SPOTS C2 (BASEBALL)	- 1"	3#10+#10G
C2	SPORTS C2 (SECURITY)	1	3#10+#10G
F1	FUTURE SOCCER FIELD	(2)-4"C	NOTE 4
F2	FUTURE HANDBALL/BASKETBALL	(2)-4"C	NOTE 4
1.4	PEDESTRIAN LIGHTING	- 1"	2#10+#10G
L1	PEDESTRIAN LIGHTING RECEPTACLE	1	2#10+#10G
L2	STAIR LIGHTING	2"	NOTE 4,5
LC	FLAGPOLE LIGHTING	1"	2#10+#10G
P1	SCOREBOARD	1"	2#10+#10G
P2	DUGOUT QUAD RECEPTACLE	1"	2#10+#10G
Р3	SOUND SYSTEM	1"	
SP1	SPARE(FUTURE FIELDS)	(6)-4"C	NOTE 4
T1	TELECOM	2"	NOTE 4
T2	SOUND SYSTEM	2"	NOTE 4

EXISTING U'
XM POLE #17

-NEW UTILITY CO.

PAD-MOUNTED TRANSFORMER

- 1. ALL CONDUIT SHALL B REFER TO DIRECT BURIE INFORMATION.
- 2. REFER TO THE SPECI BUT NOT LIMITED TO REINTENDED FOR VEHICUL
- 3. ALL CONDUCTORS SHA 4. PROVIDE ALL EMPTY/S
- 5. BRANCH CIRCUIT WIR

Y S I EIVI	1				OI OINTO DI OLOGINITI		3#101#100
					PEDESTRIAN LIGHTING RECEPT		2#1+#1G
UTURE FIELDS)	(6)-4"C	NOTE 4			PEDESTRIAN LIGHTING	4"	2#10+#10G
					SPORTS A1		3#10+#10G
					SPORTS A1 SECURITY		3#10+#10G
1	2"	NOTE 4			DUGOUT A QUAD RECEPTACLE		2#1+#1G
YSTEM	2"	NOTE 4			PEDESTRIAN LIGHTING RECPT		2#1+#1G
					PEDESTRIAN LIGHTING	4"	2#10+#10G
	<u> </u>				FLAGPOLE LIGHTING		2#8+#8G
. BE DIRECT BURIED UNL	ESS OTHERWISE	INDICATED			SPORTS B1		3#8+#8G
RIED CONDUIT DETAIL ON					SPORTS B1 SECURITY		3#10+#10G
CIFICATIONS FOR ADDIT	IONAL INCODRACT			-	PEDESTRIAN LIGHTING RECPT		2#1+#1G
CIFICATIONS FOR ADDITI REINFORCEMENT REQUII					PEDESTRIAN LIGHTING	4"	2#10+#10G
JLAR TRAFFIC .	\4/ET 004T 0\ 0				SPORTS A1		3#10+#10G
SHALL BE SUITABLE FOR //SPARE CONDUIT WITH					SPORTS A1 SECURITY		3#10+#10G
IRING TO STAIR LIGHTIN					DUGOUT A QUAD RECEPTACLE		2#1+#1G
					SPORTS A1		3#10+#10G
				4	SPORTS A1 SECURITY	2"	3#10+#10G
					DUGOUT A QUAD RECEPTACLE		2#1+#1G
					PEDESTRIAN LIGHTING RECEPT		2#8+#8G
					PEDESTRIAN LIGHTING		2#10+#10G
					SPORTS C2	4.1	3#10+#10G
					SPORTS C2 SECURITY	4"	3#10+#10G
					PEDESTRIAN LIGHTING RECEPT		2#3+#3G
					PEDESTRIAN LIGHTING		2#10+#10G
				5	STAIR LIGHTING	1"	NOTE 4
					SPORTS B2		3#8+#8G
					SPORTS B2 SECURITY		3#10+#10G
					SPORTS A2	4"	3#10+#10G
					SPORTS A2 SECURITY	4"	3#10+#10G
					DUGOUT B QUAD RECEPTACLE		2#1+#1G
					SOUND SYSTEM CABINET		2#1+#1G
					STAIR LIGHTING	1"	NOTE 4
					PEDESTRIAN LIGHTING RECPT	0"	2#3+#3G
					PEDESTRIAN LIGHTING	2"	2#10+#10G
					SPORTS B2		3#8+#8G
				6	SPORTS B2 SECURITY		3#10+#10G
					SPORTS A2	4"	3#10+#10G
					SPORTS A2 SECURITY	4"	3#10+#10G
					DUGOUT B QUAD RECEPTACLE		2#1+#1G
					SOUND SYSTEM CABINET		2#1+#1G
					SPORTS B2		3#8+#8G
					SPORTS B2 SECURITY		3#10+#10G
				_	SPORTS A2	4"	3#10+#10G
				7	SPORTS A2 SECURITY	4"	3#10+#10G
					DUGOUT B QUAD RECEPTACLE		2#1+#1G
					SOUND SYSTEM CABINET		2#1+#1G
					SPORTS A2		3#10+#10G
					SPORTS A2 SECURITY	4 11	3#10+#10G
				8	DUGOUT B QUAD RECEPTACLE	4"	2#1+#1G
					SOUND SYSTEM CABINET		2#1+#1G
				NOTES:			
					DUIT SHALL BE DIRECT BURIED UNLES DIRECT BURIED CONDUIT DETAIL ON DI DN.		

TAG

INFORMATION.

2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO REINFORCEMENT REQUIRED UNDER PAVED AREAS

DIRECT BURIED CONDUIT SCHEDULE

DESCRIPTION

SCOREBOARD

SPORTS C1 SECURITY

PEDESTRIAN LIGHTING

FLAGPOLE LIGHTING

SPORTS C1 SECURITY

SPORTS B1 SECURITY

PEDESTRIAN LIGHTING

SPORTS A1 SECURITY

SPORTS C1 SECURITY

PEDESTRIAN LIGHTING

FLAGPOLE LIGHTING

SPORTS B1 SECURITY

PEDESTRIAN LIGHTING RECEPT

PEDESTRIAN LIGHTING RECEPT

DUGOUT A QUAD RECEPTACLE

PEDESTRIAN LIGHTING RECEPT

SPORTS C1

SPORTS C1

SPORTS B1

SPORTS A1

SPORTS C1

SPORTS B1

CONDUIT | CONDUCTORS

1" 2#10+#10G

3#10+#10G

3#10+#10G

2#1+#1G

2#8+#8G

2#10+#10G

3#10+#10G

3#10+#10G

3#10+#10G

3#8+#8G

2#1+#1G

2#10+#10G

3#10+#10G

3#10+#10G

3#10+#10G

3#10+#10G

2#10+#10G

3#10+#10G

2#1+#1G

2#8+#8G

3#8+#8G

2#1+#1G

- INTENDED FOR VEHICULAR TRAFFIC.

 3. ALL CONDUCTORS SHALL BE SUITABLE FOR WET LOCATIONS.

 4. PROVIDE ALL EMPTY/SPARE CONDUIT WITH NYLON PULL STRING.
- 5. BRANCH CIRCUIT WIRING TO STAIR LIGHTING SYSTEM SHALL BE PROVIDED BY

508.762.1676 800.SAMPSON www.westonandsampson.com Consultants: Andover, MA 01810-1488 T. 978-296-6200 F. 978-296-6201 Revisions: No. Date Description Issued For: PHASE 1 **BID DOCUMENTS** 1"=40'-0" MARCH 31, 2025 Date: Drawn By: Reviewed By: KEG Approved By: KEG W&S Project No: 24-0000416 W&S File No: Drawing Title:

CITY OF WORCESTER

Dept. of Parks, Recreation & Cemetery

GREAT BROOK VALLEY PARKS

IMPROVEMENTS 33 Northeast Cutoff, Worcester,

Massachusetts 01605

Weston & Sampson

427 Main St, Suite 400,

Worcester, MA 01608

COPYRIGHT 2023 WESTON & SAMPSON

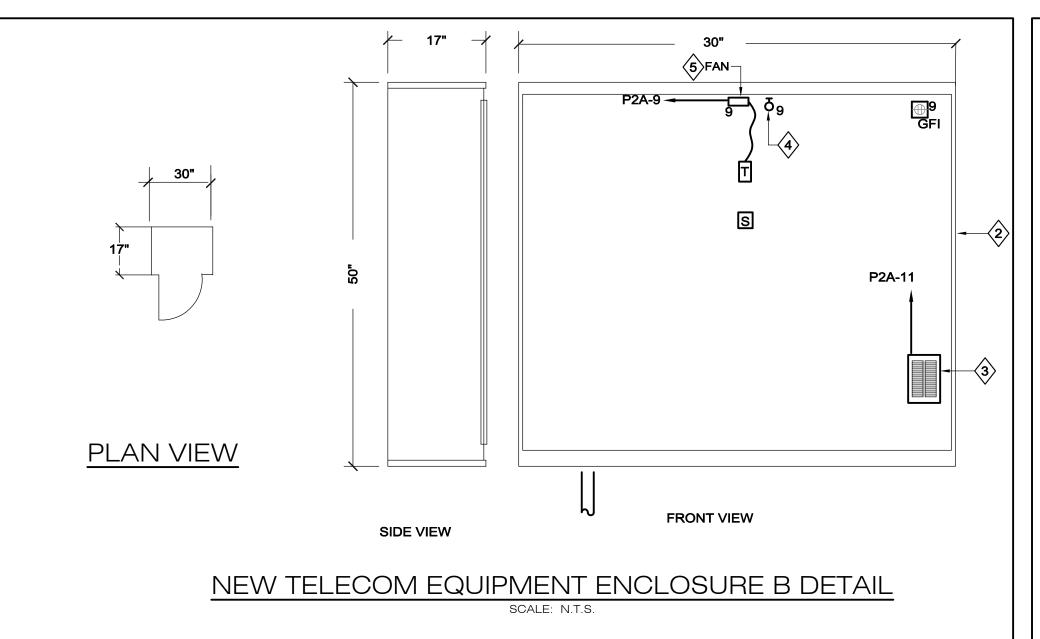
ELECTRICAL

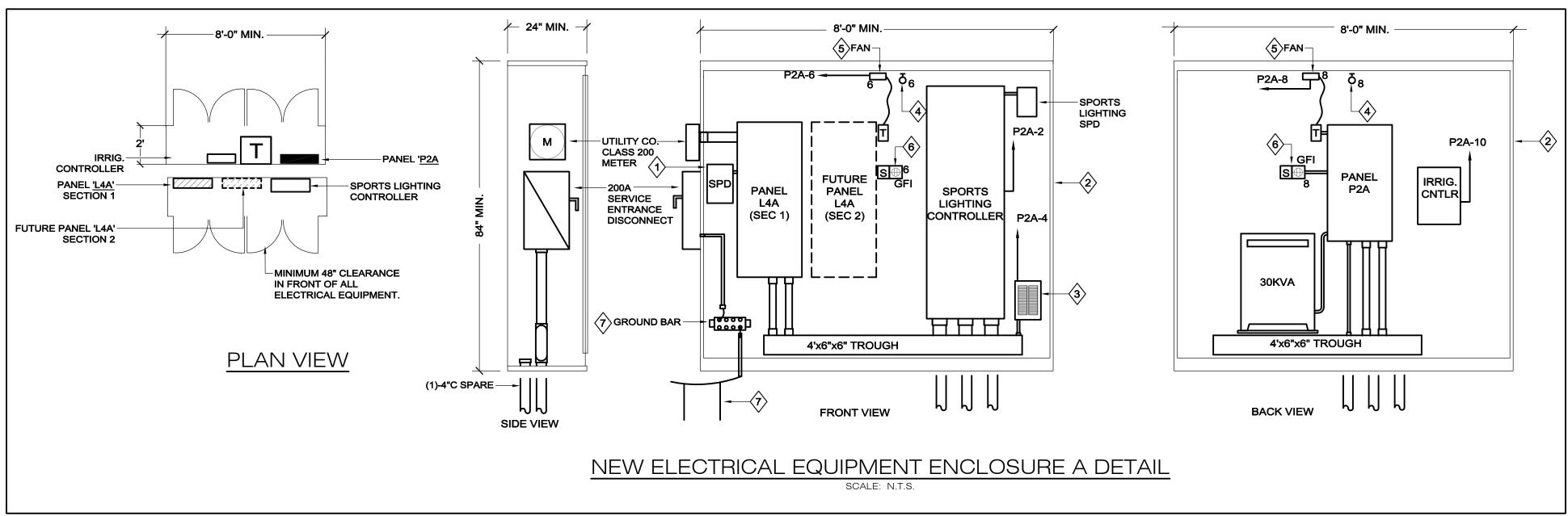
SITE PLAN

BID ALT 1

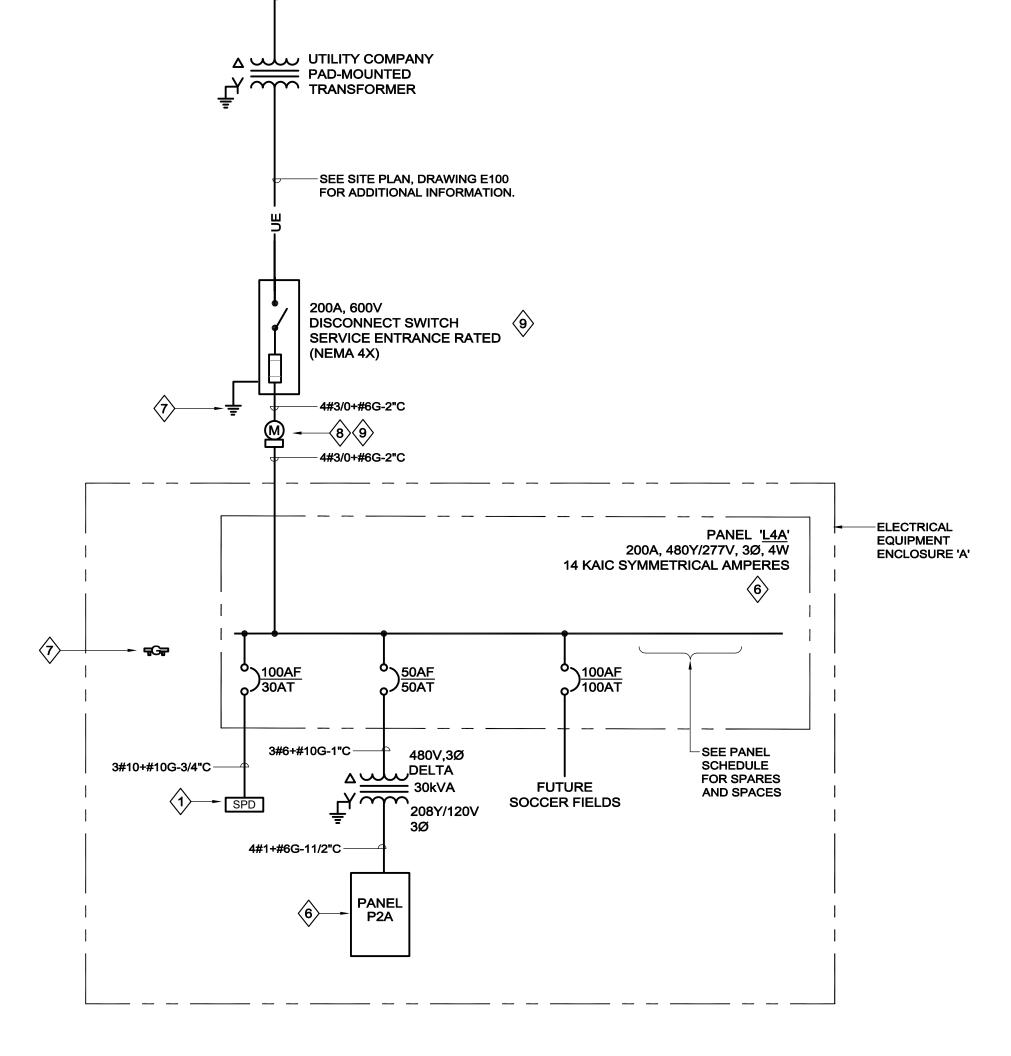
E101

Sheet Number:





GROUND BUS:



ELECTRICAL ONE-LINE DIAGRAM

ONE-LINE DIAGRAM NOTES:

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS AND GENERAL NOTES THAT MAY PERTAIN TO THIS DRAWING.

2. THIS DRAWING IS INTENDED TO ILLUSTRATE MAJOR EQUIPMENT AND REQUIRED INTERCONNECTIONS. REFER TO THE SITE PLAN FOR EXACT LOCATIONS AND THE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

3. THE SERVICE SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NEC. REFER TO DETAIL E001 ON DRAWING E301 FOR ADDITIONAL INFORMATION.

	IMILL	E-17 1	VOLIO.	40017277		MOOITI	CONTACL			-					
	MAIN	: MLO	AMPS:	200		AIC:	14,000	ISOLATED GROUND BUS:	N						
		FEED THRU LUGS	PH/WIRE:3/4		LOC.: ENCL A		200% NEUTRAL:	N							
	AMPS/		LOAD	LOAD	BY PHASE	, kVA	LOAD		AMPS/						
CIR.	POLES	DESCRIPTION OF LOAD	kVA	Α	В	С	kVA	DESCRIPTION OF LOAD	POLES	CIF					
1			1.40	4.40			3.00			2					
3	15/3	SPORTS A1	1.40		4.40		3.00	SPORTS C1	15/3	4					
5			1.40			4.40	3.00			6					
7			1.40	4.40			3.00			8					
9	15/3	SPORTS A2	1.40		4.40		3.00	SPORTS C2	15/3	10					
11			1.40			4.40	3.00		1000	12					
13			3.50	3.80			0.30	SECURITY	1.0	14					
15	20/3	SPORTS B1	3.50		3.80		0.30	SECURITY (A1,A2, B1,B2,C1,C2)	15/3	16					
17			3.50			3.80	0.30	(11) =(-1(-1(-1(-1)		18					
19			35.00	36.00			1.00	FLAGPOLE LIGHTS	20/1	20					
21	20/3	SPORTS B2	3.50		3.50			SPACE		22					
23			3.50			3.50		SPACE		24					
25	20/1	PEDESTRIAN LIGHTING	0.27	0.27				SPACE		26					
27	20/1	STAIR LIGHTING	1.00		1.00			SPACE		28					
29	20/1	SPARE				0.00		SPACE		30					
31	20/1	SPARE		0.00						32					
33	20/1	SPARE			0.00			FUTURE SOCCER FIELDS	100/3	34					
35	20/1	SPARE				0.00				36					
37				10.00			10.00			38					
39	30/3	SPD			10.00		10.00	PANEL P2A	50/3	40					
41		100									10.00	10.00			42
		CONNECTED KVA BY PHASE -		58.87	27.10	26.10		TOTAL CONNECTED KVA-	112.07						
								DEMAND FACTOR	1.00						
								TOTAL DEMAND KVA-	112.07						
								TOTAL DEMAND AMPERES-	134.80						

MOUNT: SURFACE

VOLTS: 480Y/277

PANEL: L4A

PANEL: P2A		VOLTS:	208Y/120		MOUNT:	SURFACE	GROUND BUS:	Υ		
MAIN: MCB AMPS: 100 PH/WIRE: 3/4		AMPS:	100		AIC:	10,000	ISOLATED GROUND BUS:	N		
		LOC.:	ENCL A	200% NEUTRAL:	N.					
	AMPS/		LOAD	LOAD	BY PHASE	, kVA	LOAD		AMPS/	
CIR.	POLES	DESCRIPTION OF LOAD	kVA	Α	В	С	kVA	DESCRIPTION OF LOAD	POLES	CIF
1	20/1	DUGOUT A QUAD	1,80	3.60			1.80	MUSCO CONTROLLER	20/1	2
3	20/1	DUGOUT B QUAD	1.80		2.60		0.80	ENCL A HEATER	20/1	4
5	20/1	SCOREBOARD	1.80			2.40	0.60	ENCL A LT/FAN/REC	20/1	6
7	20/1	SOUND SYSTEM EQUIPMENT	1.80	2.40			0.60	ENCL A LT/FAN/REC	20/1	8
9	20/1	ENCL B LT/FAN/REC	0.80		2.60		1.80	IRRIGATION CONTROLLER	20/1	10
11	20/1	ENCL B HEATER	0.60			2.40	1.80	PEDESTRIAN RECPT	20/1	12
13	20/1	SPARE		1.80			1.80	PEDESTRIAN RECPT	20/1	14
15	20/1	SPARE			1.80		1.80	PEDESTRIAN RECPT	20/1	16
17	20/1	SPARE				0.00		SPARE	20/1	18
19	20/1	SPARE		0.00				SPARE	20/1	20
21	20/1	SPARE			0.00			SPARE	20/1	22
23	20/1	SPARE				0.00		SPACE		24
25	20/1	SPARE		0.00				SPACE		26
27		SPACE			0.00			SPACE		28
29		SPACE				0.00		SPACE		30
31		SPACE		0.00				SPACE		32
33		SPACE			0.00			SPACE		34
35		SPACE				0.00		SPACE		36
37		SPACE		0.00				SPACE		38
39		SPACE			0.00			SPACE		40
41		SPACE				0.00		SPACE		42
		CONNECTED KVA BY PHASE -		7.80	7.00	4.80		TOTAL CONNECTED KVA-	19.60	
								DEMAND FACTOR	1.00	
								TOTAL DEMAND KVA-	19.60	
								TOTAL DEMAND AMPERES-	54.41	

$\langle 1 \rangle$	DISTRIBUTION PANEL SPD SHALL HAVE A MAXIMUM SURGE RATING CAPACITY OF 65KA PER MODE (130KA PER PHASE). SPD SHALL BE INDIVIDUALLY MOUNTED IN A NEMA 1 ENCLOSURE CONNECTED TO THE PANEL VIA A 30A-3P CIRCUIT BREAKER. SPD SHALL BE TG SERIES AS MANUFACTURED BY CURRENT TECHNOLOGY, ACCUVAR BY LIEBERT OR CPS SERIES FROM CUTLER HAMMER.
2>	ENCLOSURE SHALL BE CUSTOM FABRICATED, LOCKABLE STAINLESS STEEL NEMA 3R RATED FREE STANDING PAD-MOUNTED VENTILATED ENCLOSURE AS MANUFACTURED BY HOFFMAN WATERSHED SERIES OR APPROVED EQUAL. ENCLOSURE SHALL BE EQUIPPED WITH EXHAUST FAN AND HEATER AS ILLUSTRATED. PROVIDE STAINLESS STEEL FEET TO ELEVATE ENCLOSURE 1" ABOVE PAD. CONTRACTOR SHALL CONFIRM EXACT DIMENSIONS OF ENCLOSURE BASED ON ACTUAL EQUIPMENT SIZE AND ENCLOSURE MANUFACTURER'S RECOMMENDATIONS. PROVIDE DIMENSIONED DRAWING FOR REVIEW BY ENGINEER PRIOR TO PURCHASE.
3	PROVIDE 800W UNIT HEATER WITH INTEGRAL THERMOSTAT
4	PROVIDE VAPORTIGHT WEATHERPROOF LED FIXTURE AS MANUFACTURED BY HUBBELL # VW1/VX2-V8LU15LG/VCG-15-19WLED OR APPROVED EQUAL
\(\frac{1}{5} \)	PROVIDE WET LOCATION SQUARE AXIAL FAN RATED AT 395CFM, 120V, 1Ø WITH CORD/PLUG ASSEMBLY AND TEMPERATURE CONTROL SWITCH PROVIDE RAN BRACKET AND FINGER GUARD/FILTER KIT. FAN SHALL BE MANUFACTURED BY HOFFMAN # HF0916414 OR APPROVED EQUAL.
6	GROUND FAULT RECEPTACLE AND LIGHT SWITCH IN TWO GANG WEATHERPROOF ENCLOSURE.
\(\frac{1}{7} \)	SEE DETAIL E0001 ON DRAWING E-201 FOR ADDITIONAL INFORMATION.
8	PANELBOARD SHALL BE FIELD MARKED WITH THE AVAILABLE SHORT CIRCUIT CURRENT IN ACCORDANCE WITH 2023 NEC ARTICLE 406.6.
9	PROVIDE WEATHERPROOF UTILITY COMPANY METER,480Y/277V, 3PH,4W WITH SINGLE LEVER TYPE MANUAL BYPASS AND ARC SAFETY SHIELDS IN NEMA 3R ENCLOSURE. COORDINATE EXACT

REQUIREMENTS WITH NGRID.

REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.

KEYNOTES

GREAT BROOK VALLEY PARKS
IMPROVEMENTS
33 Northeast Cutoff, Worcester,
Massachusetts 01605

Weston Sampson

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

Consultants:

CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery

Seal:						
Issu	ed For:					
	P	HASE 1				
		OCUMENTS				
	BID DOCOMENTS					
Sca	le:	AS NOTED				

Description

Revisions:

No. Date

Drawing Title:

W&S File No:

Drawn By:

Reviewed By: KEG

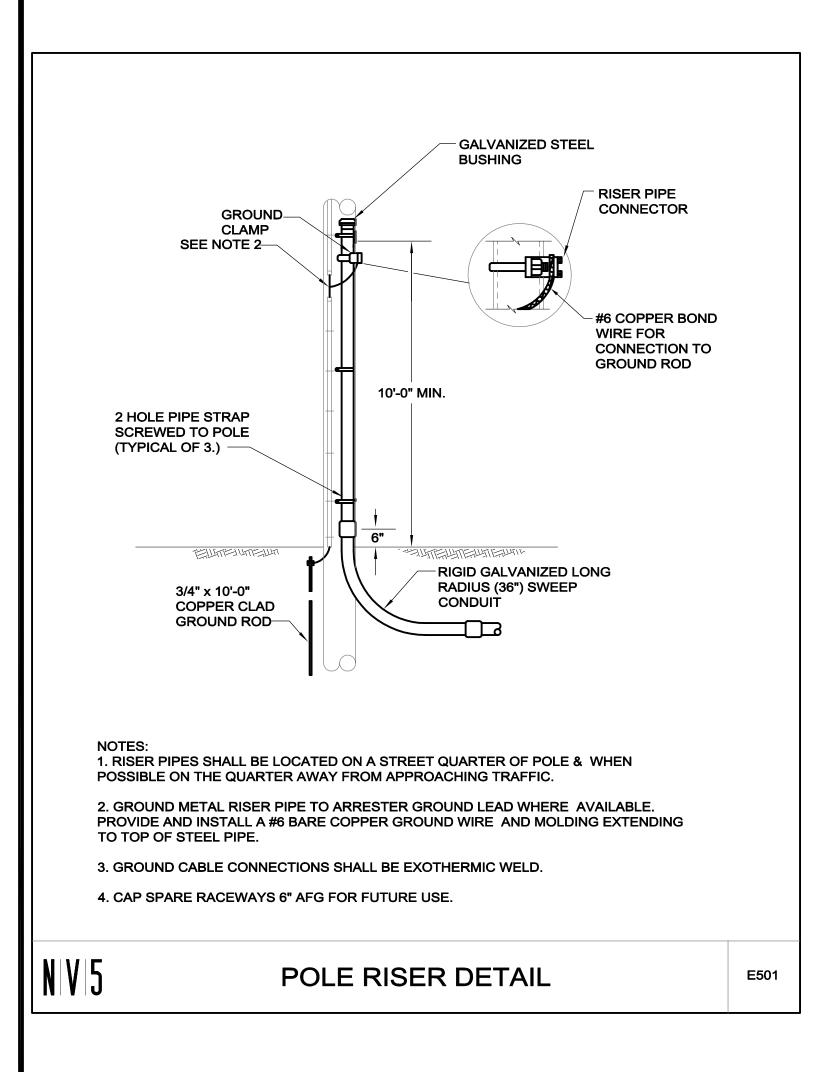
Approved By: KEG

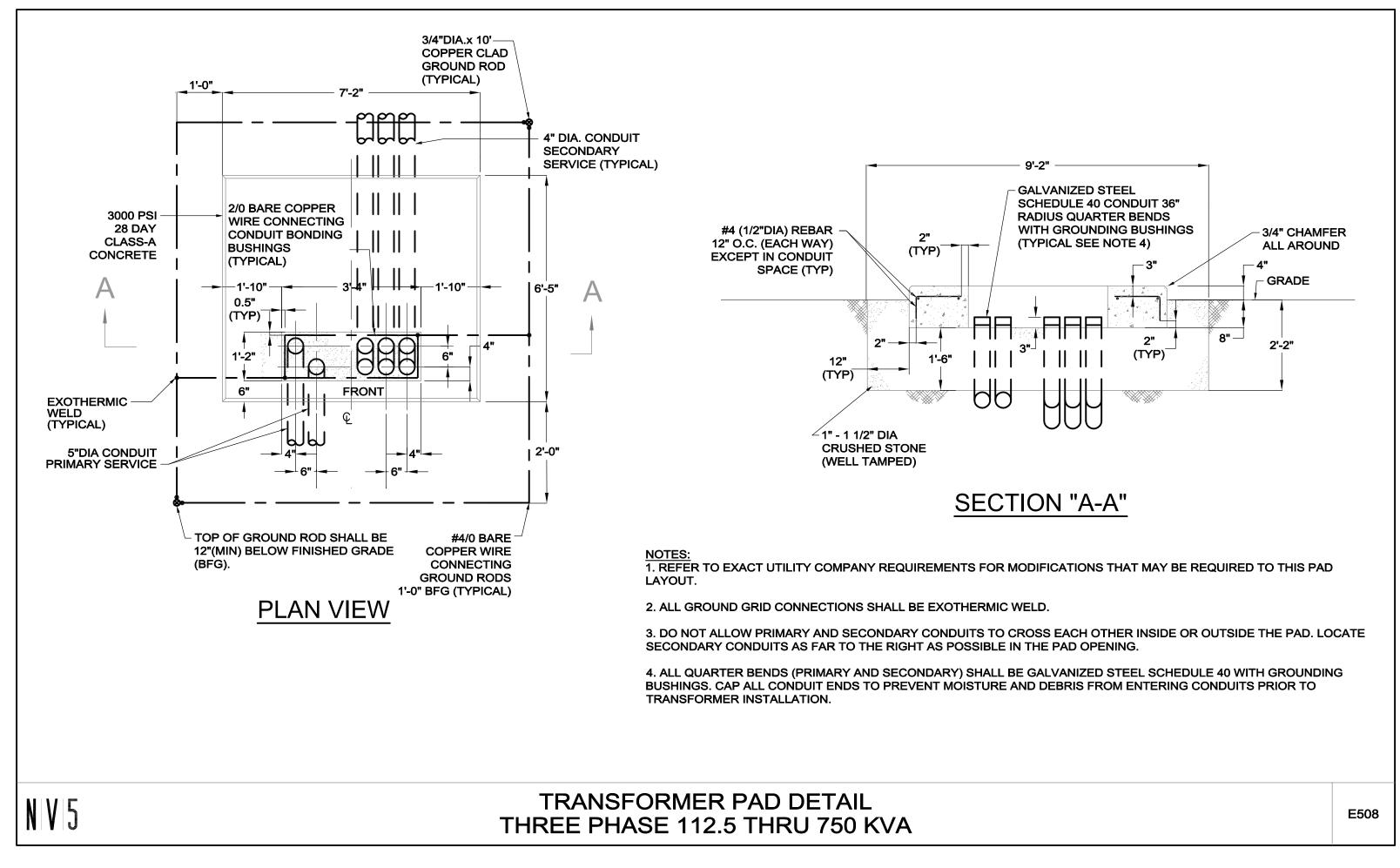
W&S Project No: 24-0000416

ELECTRICAL ONE-LINE DIAGRAM & DETAILS

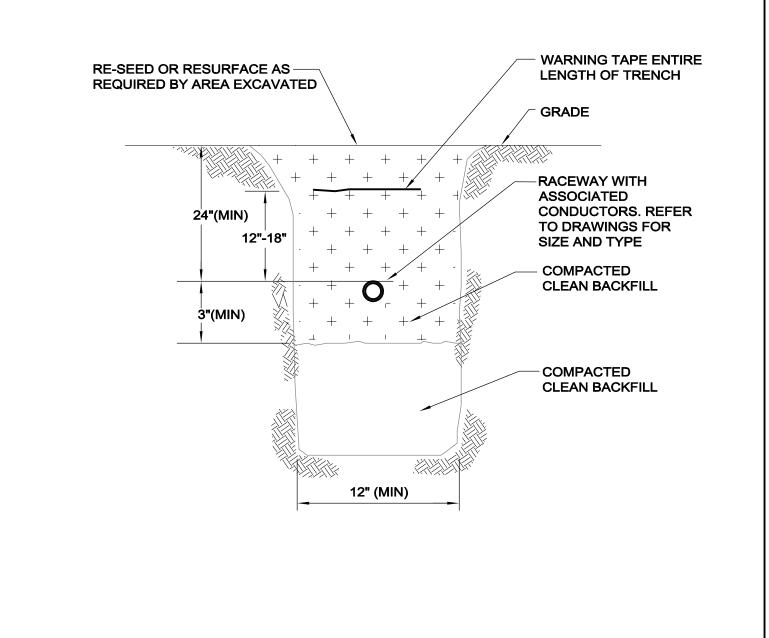
Sheet Number:

E200





-LIGHTING FIXTURE POLE



NOTES:
1. THIS DETAIL IS INTENDED TO ILLUSTRATE REQUIREMENTS WHICH EXCEED THOSE REQUIRED BY NEC TABLE 300-5.

2. WARNING TAPE SHALL BE DETECTABLE TYPE FOIL BACKED 4MIL POLYETHYLENE WITH FADE RESISTANT "BURIED ELECTRIC LINE BELOW" A MINIMUM OF 18 INCHES ABOVE THE BURIED SERVICE. TAPE SHALL BE EQUAL TO T&B NAF-0708.

3. ALL ROADWAY CROSSING SHALL BE ENCASED WITH A MINIMUM OF 2 INCHES OF CONCRETE (TOP BOTTOM AND SIDES) EXTENDING A MINIMUM OF 2 FEET BEYOND EACH SIDE OF CROSSING.

4. ALL CONDUIT RISERS SHALL UTILIZE LONG RADIUS GALVANIZED RIGID STEEL SWEEPS.

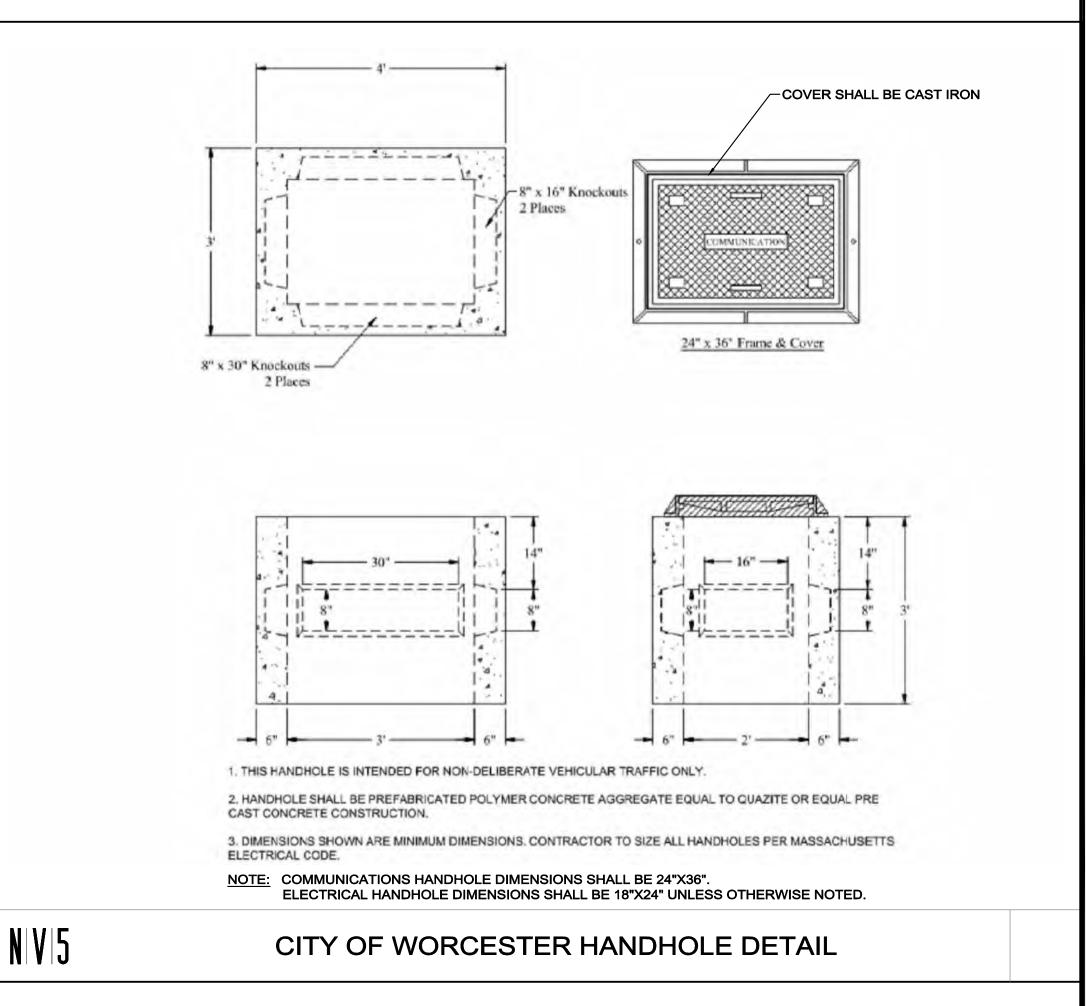
N|V|5

BURIED CONDUIT DETAIL

E513

GROUND CONDUCTOR TO BOND TO GROUNDING LUG INSIDE BASE OF POLE. GROUNDING CONDUCTOR SIZE AS GROUND ROD. -INDICATED ON DRAWINGS. EXOTHERMIC CONNECTION-FINISHED GRADE 3/4" X 30" MIN. ANCHOR BOLTS WITH 3" HOOK (TYPICAL FOR 4) —ON 12" BOLT CIRCLE. 2" ELECTRIC PVC SCH40 TO ADDITIONAL LIGHT CONDUITS,-FIXTURES OR SPARE. 180 DEG APART IF SPARE CAP BELOW (TYPICAL OF 2) GRADE FOR FUTURE EXTENSION. CONDUIT COUPLING (TYPICAL) 4-#5 REBAR, EQUALLY SPACED. ON 16" CIRCLE, W/3" CLEAR (TYP.) #3 REBAR TIES @ 12" VERTICAL -22" SQUARE + SPACING O.C., W/3" CLEAR TO EDGE ∠5/8" x 8'-0" OF FOUNDATION (TYP.) COPPERCLAD LIGHT POLE FOUNDATION NOTES: REINFORCED PRECAST BASE 1. BOLT PATTERN SHOWN IS TYPICAL AND NOT FOR CONSTRUCTION FOUNDATION, CONCRETE TO BE CONTRACTOR TO PROVIDE BOLT PATTERN DETAILS 5000PSI AT 28 DAYS. BASED ON SELECTED MANUFACTURER. 2. PROVIDE REBAR DETAIL FROM PRECAST CONCRETE VENDOR FOR APPROVAL. STREET LIGHT POLE FOUNDATION DETAIL 3. CONDUIT LOCATIONS SHOWN ARE TYPICAL. NOT TO SCALE CITY OF WORCESTER SITE LIGHTING POLE BASE DETAIL

GROUNDING LUG WITH #6 CU



CITY OF WORCESTER
Dept. of Parks, Recreation & Cemetery

GREAT BROOK VALLEY PARKS
IMPROVEMENTS
33 Northeast Cutoff, Worcester,
Massachusetts 01605

Weston & Sampsor

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

Consultants:

No.	Date	Description
+		
Seal:		
Issue	ed For:	
Issue		HASE 1
	P	HASE 1 OCUMENTS
	P	
	P	
	P BID D	OCUMENTS
Scale	P BID D	AS NOTED
	P BID D	OCUMENTS
Scale	P BID D	AS NOTED

Drawing Title:

ELECTRICAL

Approved By: KEG

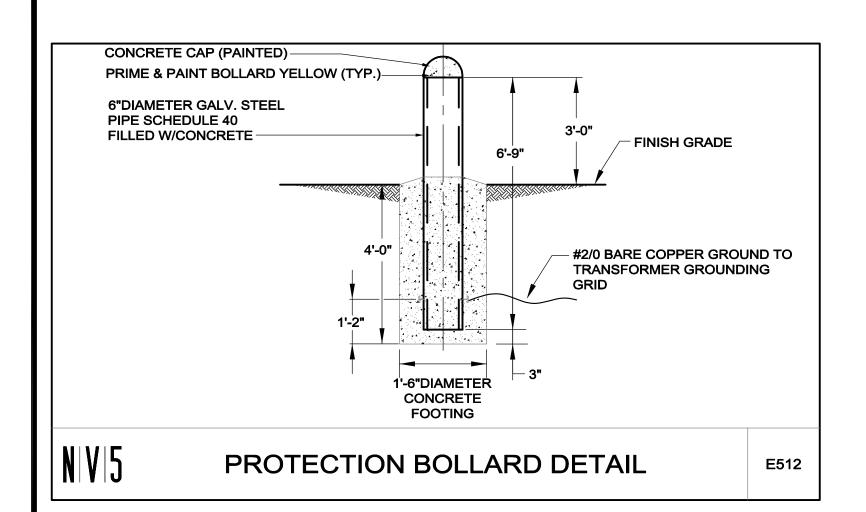
W&S File No:

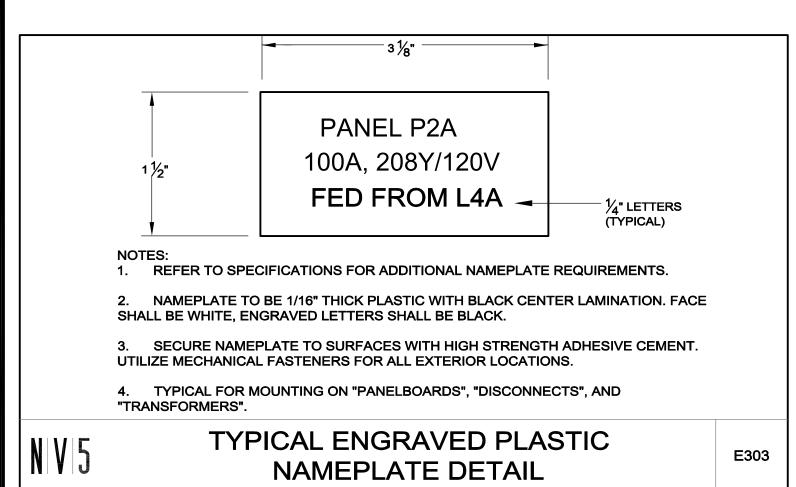
W&S Project No: 24-0000416

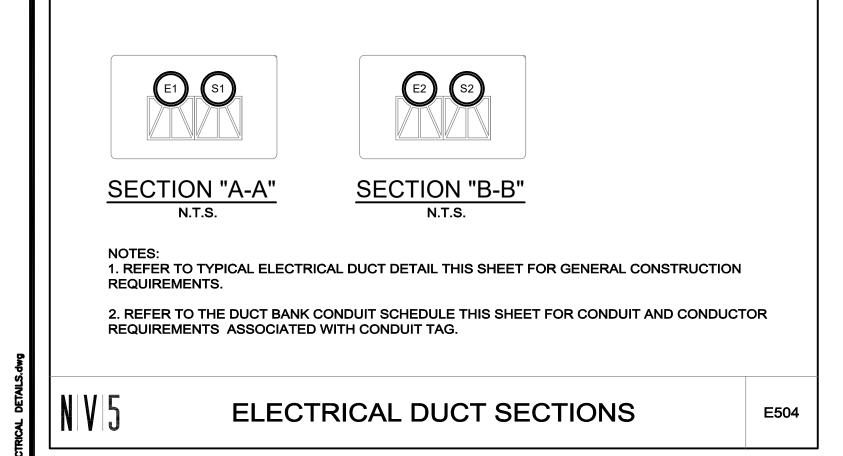
DETAILS

Sheet Number:

E300







TAG

E2

S2

AND CONDUCTOR.

WET LOCATIONS.

DESCRIPTION

PRIMARY ELECTRIC

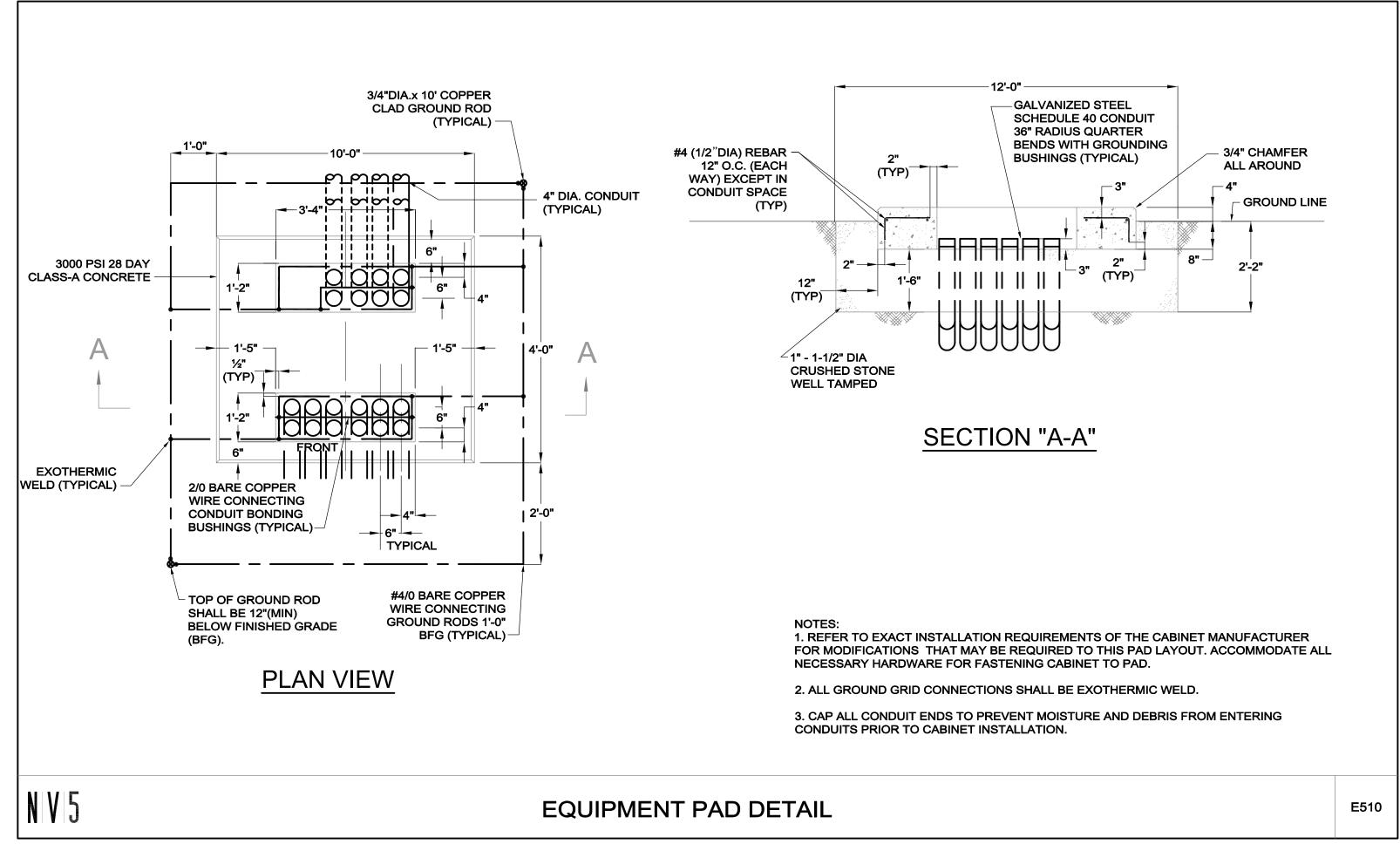
SPARE

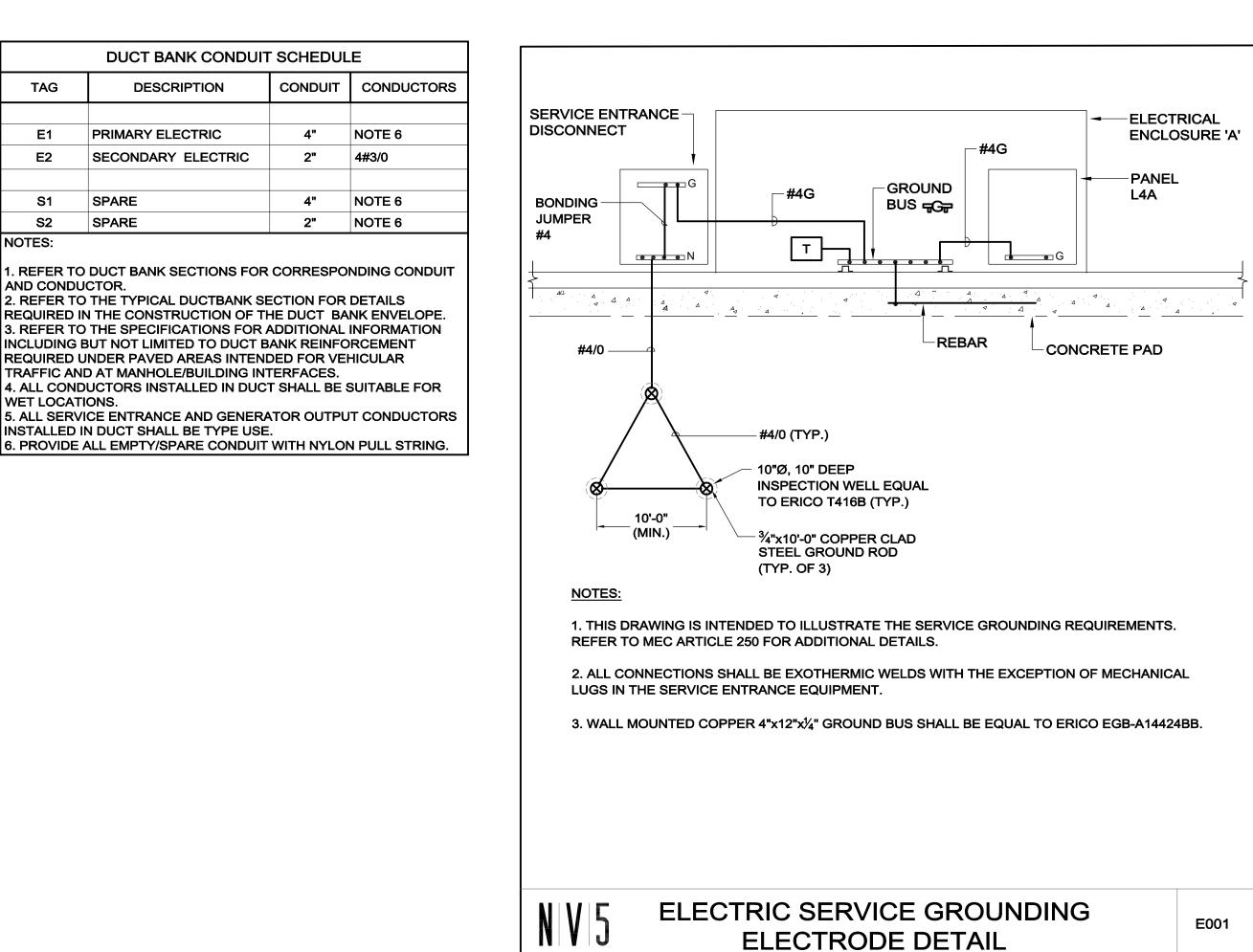
SPARE

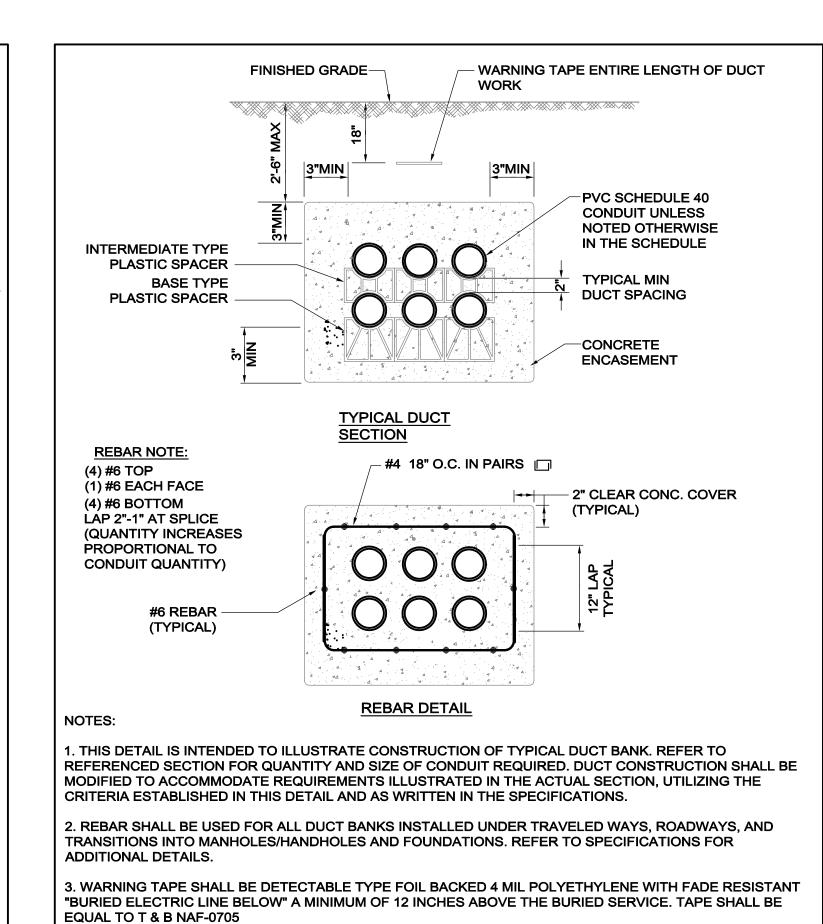
INSTALLED IN DUCT SHALL BE TYPE USE.

SECONDARY ELECTRIC

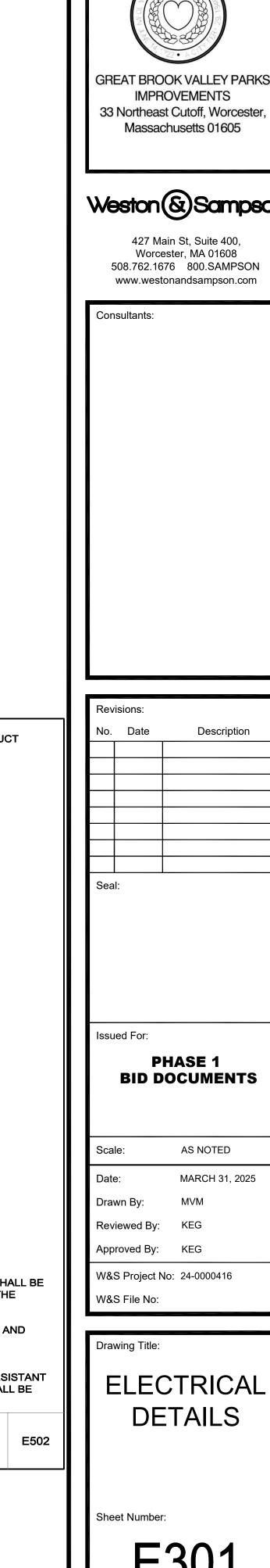








TYPICAL ELECTRICAL DUCT DETAIL



BID DOCUMENTS

CITY OF WORCESTER

Dept. of Parks, Recreation & Cemeter

E301

POLE FOUNDATION SCHEDULE FORCES (1.) DRILLED PIER POLE CONCRETE MOMENT (M) **EMBEDMENT** DESIGNATION SHEAR (V) VERTICAL (P) DIAMETER BACKFILL FT-LBS INCHES DEPTH LBS YD3 (2.) 51,844 1,329 12'-0" 4.3 1,677 48 A1, A2 93,778 2,061 16'-0" B1, B2 3,231 36 2.8 2,253 66,379 2.6 1,665 36 14'-0" C1, C2

ASD LOAD COMBINATION D + 0.6W. VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).

LIGHT STRUCTURE -

- SOIL BACKFILL

SEE NOTE BELOW

— LIGHT STRUCTURE

PRECAST BASE BY

MUSCO LIGHTING

(SEE POLE ID)

- CONCRETE

-UNDISTURBED,

IN-SITU SOIL

DRILLED PIER DIAMETER

(SEE POLE FNDTN. SCH.)

THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH

SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98%

FOR A COHESIONLESS SOIL BASED UPON STANDARD

POLE FOUNDATION ELEV.

PROCTOR TESTING (ASTM D698).

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:

BACKFILL

STEEL POLE BY

(SEE POLE ID)

MUSCO LIGHTING

2. MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

	PRECAS	T BASE	IDENTIF	ICATION	1
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
3B	2,470 LBS	20'-0"	8'-0"	12'-0"	13.38"
4B	3,490 LBS	22'-0"	8'-0"	14'-0"	15.75"
5B	4,580 LBS	23'-11"	7'-11"	16'-0"	18.25"

	POLE II	DENTIFIC	CATION	
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
A1, A2	LSS70B	3B	5 (3)	19.6
B1, B2	LSS80B	5B	7 (5)	25.3
C1, C2	LSS70C	4B	7 (4)	25.3

- EACH POLE HAS (1) SPEAKER AT 30'-0" AGL, INCLUDED IN EPA ABOVE.
- EACH POLE HAS (1) CREEK OSQ FIXTURE AT 25'-0" AGL, INCLUDED ABOVE.
- EACH POLE HAS (1) CAMERA AT 20'-0" AGL, INCLUDED IN EPA ABOVE.
- POLES A1, A2, B1, & B2 HAVE (1) MUSCO LED FIXTURE AT 15'-6" AGL, INCLUDED ABOVE.
- POLES C1 & C2 HAVE (2) MUSCO LED FIXTURES AT 15'-6" AGL, INCLUDED ABOVE.

DESIGN NOTES

DESIGN PARAMETERS:

WIND: V = 117 MPH, Vasd = 91 MPH (EXPOSURE C, RISK CATEGORY II) PER MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 10TH EDITION (IBC 2021 / ASCE 7-16).

GEOTECHNICAL PARAMETERS:

ALLOWABLE END BEARING SOIL PRESSURE: 4,000 PSF

ALLOWABLE LATERAL SOIL BEARING PRESSURE: 0 PSF/FT (GRADE TO -2'-0"); 222 PSF/FT (-2'-0" TO -7'-6"); 1 PSF/FT (-7'-6" TO -8'-6");

250 PSF/FT (-8'-6" TO -9'-0"); 125 PSF/FT (BELOW 9'-0") IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 10TH ED., CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. ENG24-1005, PREPARED BY WESTON & SAMPSON; READING, MA.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE:

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

GENERAL NOTES:

FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H: 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



IGHTIN(STER, N BROOK SEB, GRE

6334 6334 31Z

STRUCT
ENGINEE
114 NICHOLAS DI
MARSHALLTOWN
PHONE NUMBER
EMAIL: MSL.INFO

PROJECT NUMBER

31 JANUARY 2025

DRAWING NUMBER

OF ONE

USE OR REPRODUCTION OF THIS INFORMATION OTHER THAN ITS INTENDED PURPOSE FOR THIS PROJECT IS PROHIBITED WITHOUT WRITTEN CONSENT FROM MUSCO SPORTS LIGHTING, LLC.

FOR INFORMATION ONLY

Dept. of Parks, Recreation & Cemetery GREAT BROOK VALLEY PARKS **IMPROVEMENTS** 33 Northeast Cutoff, Worcester Massachusetts 01605

CITY OF WORCESTER

Weston & Sampson

Consultants:

Description

PHASE 1 **BID DOCUMENTS**

AS NOTED Scale: Date: MARCH 31, 2025

Reviewed By: KEG

Issued For:

W&S Project No: 24-0000416

Drawing Title:

ELECTRICAL DETAILS

Sheet Number:

E302

EXISTING IRRIGATION - , , X CONTROLLER TO BE REMOVED EXISTING OVERHEAD -ELECTRIC TO REMAIN 88X ---EXISTING UTILITY
POLE #17-S-1 TO REMAIN EXISTING UTILITY POLE #17-2-WITH METER AND RISER
TO BE REMOVED EXISTING OVERHEAD ELECTRIC TO BE REMOVED EXISTING UTILITY POLE #6 - WITH RISER TO BE REMOVED ELECTRICAL SITE PLAN - DEMOLITION

SCALE: 1"=40'-0"

NOTES:

1. REFER TO DRAWING E000 FOR LEGEND, SYMBOLS, GENERAL NOTES AND DEMOLITION NOTES.

2. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR ASSOCIATED NOTES, DETAILS, HEIGHTS AND EXACT LOCATION OF ALL EQUIPMENT.

CITY OF WORCESTER Dept. of Parks, Recreation & Cemetery



GREAT BROOK VALLEY PARKS **IMPROVEMENTS** 33 Northeast Cutoff, Worcester, Massachusetts 01605

Weston & Sampson

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

Consultants: 200 Brickstone Square, Andover, MA 01810-1488 T. 978-296-6200

1101	1010110.	
No.	Date	Description
Soo	1.	

Issued For:

PHASE 1 BID DOCUMENTS

MARCH 31, 2025

W&S Project No: 24-0000416

Drawing Title:

ELECTRICAL SITE PLAN DEMOLITION

Sheet Number:

ED100