






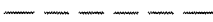


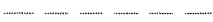


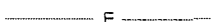


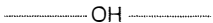
















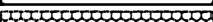




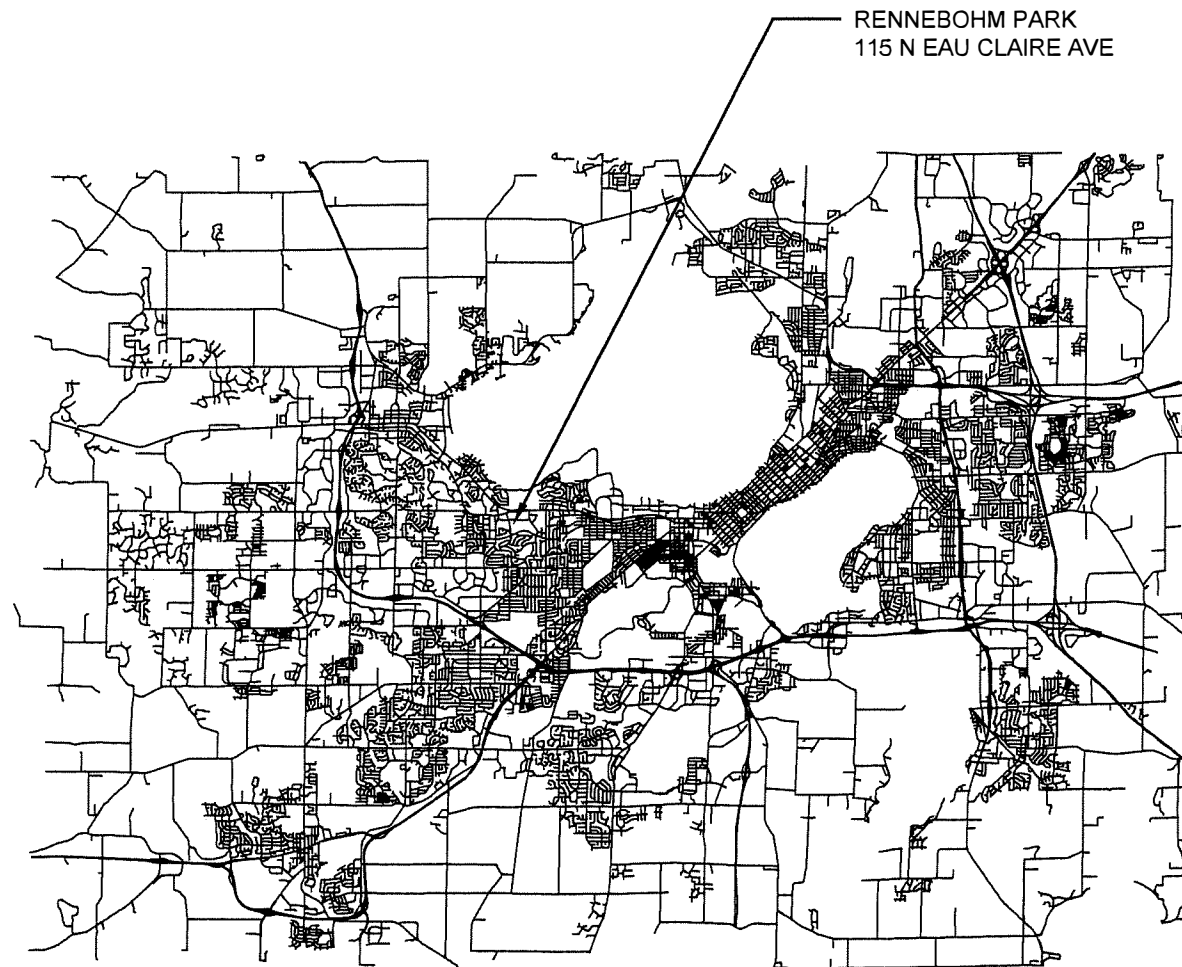


LEGEND

-  EX. ELECTRICAL HAND HOLE
-  EX. ELECTRICAL PEDESTAL
-  EX. TELEPHONE PEDESTAL
-  EX. TREE
-  EX. WATER HYDRANT
-  EX. WATER VALVE
-  EX. PROPERTY LINE
-  EX. EASEMENT
-  EX. FENCE LINE
-  EX. TREE LINE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. ABANDONED UTILITY
-  EX. ELECTRIC
-  EX. FIBER OPTIC
-  EX. NATURAL GAS
-  EX. OVERHEAD LINE
-  EX. SANITARY SEWER
-  EX. STORM SEWER
-  EX. CABLE TV
-  EX. UNDERGROUND TELEPHONE
-  EX. WATER LINE
-  EX. GRAVEL
-  EX. CONCRETE
-  REMOVE EX. TOPSOIL
-  PRO. SPOT ELEVATION
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  PRO. FENCE
-  PRO. GRADING LIMITS
-  PRO. SILT SOCK
-  PRO. CONSTRUCTION FENCE
-  PRO. ASPHALT
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. EXPANSION JOINT
-  PRO. INSTALL TENNIS NET
-  PRO. NET POST
-  PRO. LIGHT POLE BASE

RENNEBOHM PARK EAST TENNIS COURTS 2025 MUNIS NUMBER: 14015-51-130



DESIGNED BY:



City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715

**MADISON
PARKS**



PROJECT:

*RENNEBOHM PARK
EAST TENNIS COURTS
2025*

SHEET SCHEDULE

RENNEBOHM PARK	
1.1	PROJECT LOCATION AND SITE ACCESS
1.2	EXISTING CONDITIONS PLAN
1.3	DEMOLITION AND PROTECTION PLAN
1.4	SITE PLAN
1.5	GRADING AND EROSION CONTROL PLAN
1.6	DESIGN COMPUTATIONS
1.7	ASPHALT COURT PAVEMENT DETAIL
1.8	FENCING AND GATE DETAILS
1.9	COURT STRIPING DETAILS
1.10	NET POST AND CENTER NET TIE-DOWN DETAILS
E300-510	LIGHTING PLANS
C1	LIGHTING DETAILS

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Advertised to bid: KK	2024-03-21
BPW: KK	2024-01-24
Advertised 3-27-25	CCS

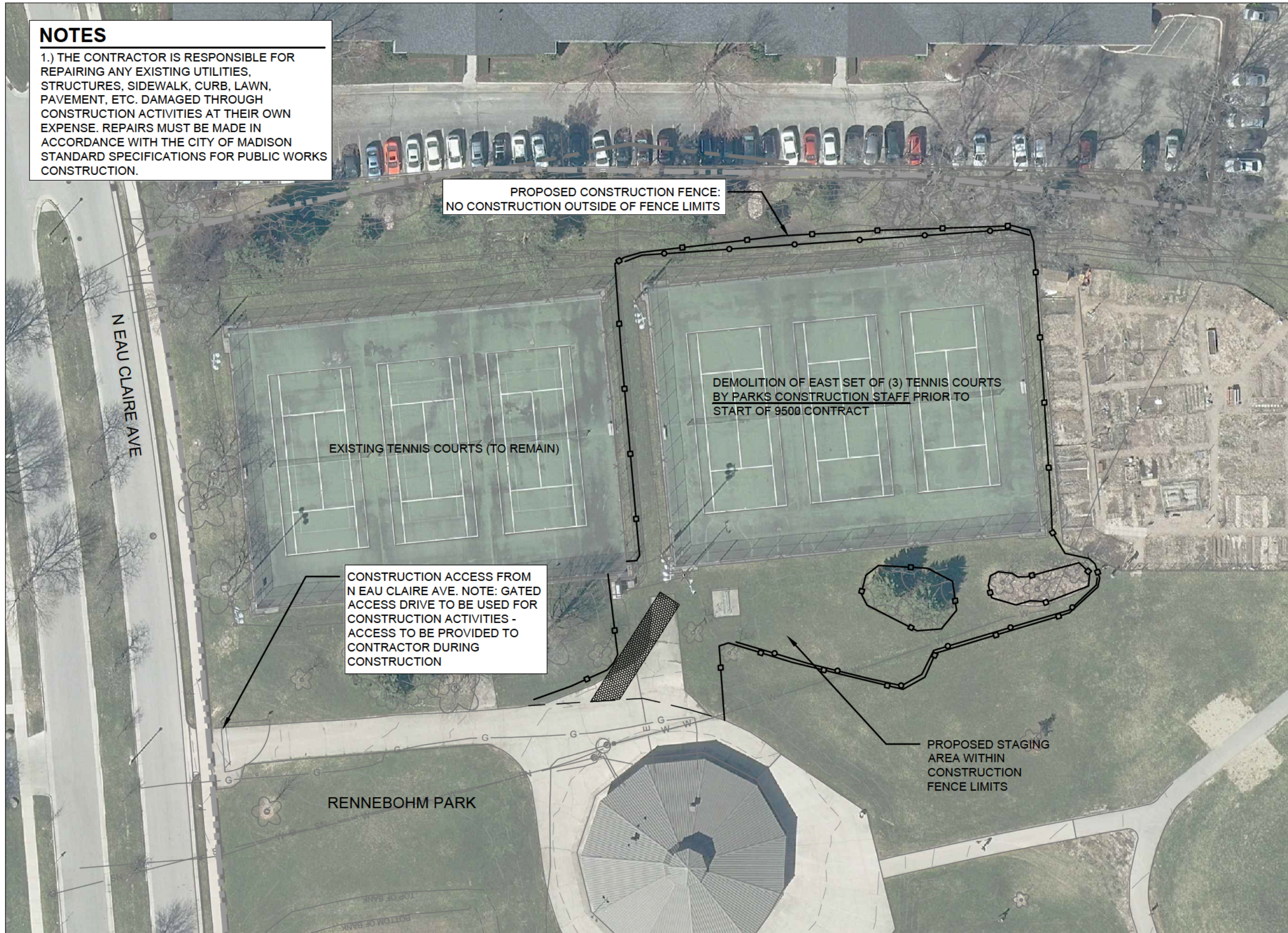
PUBLIC WORKS PROJECT #:
9642

SHEET TITLE:
COVER SHEET

SHEET NUMBER:

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



PROPOSED CONSTRUCTION FENCE:
NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

DEMOLITION OF EAST SET OF (3) TENNIS COURTS
BY PARKS CONSTRUCTION STAFF PRIOR TO
START OF 9500 CONTRACT

EXISTING TENNIS COURTS (TO REMAIN)

CONSTRUCTION ACCESS FROM
N EAU CLAIRE AVE. NOTE: GATED
ACCESS DRIVE TO BE USED FOR
CONSTRUCTION ACTIVITIES -
ACCESS TO BE PROVIDED TO
CONTRACTOR DURING
CONSTRUCTION

PROPOSED STAGING
AREA WITHIN
CONSTRUCTION
FENCE LIMITS

RENNEBOHM PARK

City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715



Graphical Scale
0 40



PROJECT:

**RENNEBOHM PARK
EAST TENNIS COURTS
2025**

PROJECT ADDRESS:

**RENNEBOHM PARK
115 N EAU CLAIRE AVE
MADISON, WI 53705**

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ITEM	DATE
ADVERTISED TO BID: KK	2024-03-21
DRAWN BY: K KANE	2024-01-05
STORMWATER MANAGEMENT DESIGNED BY: C. STELLIES	

PUBLIC WORKS PROJECT #

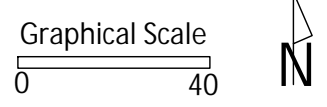
9642

SHEET TITLE:

**PROJECT LOCATION
AND SITE ACCESS**

SHEET NUMBER:

1.1



PROJECT:
**RENNEBOHM PARK EAST
 TENNIS COURTS 2025**

PROJECT ADDRESS:
**RENNEBOHM PARK
 115 N EAU CLAIRE AVE
 MADISON, WI 53705**

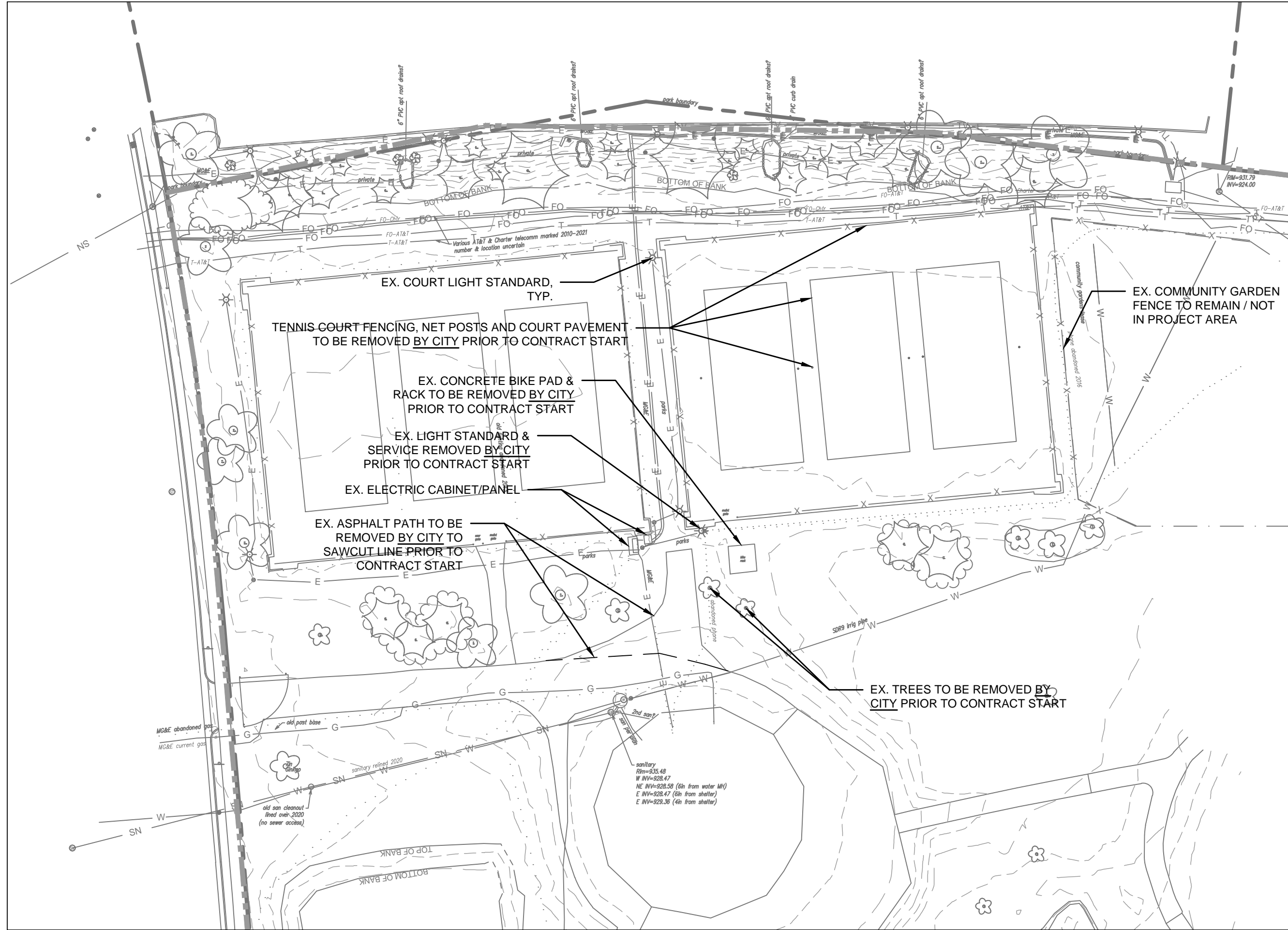
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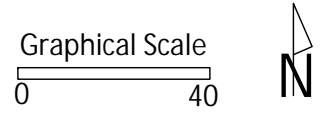
ITEM ADVERTISED TO BID: CCS	DATE 2025-3-27
DRAWN BY: K KANE	2024-04-01
STORMWATER MANAGEMENT DESIGNED BY: C.STELLIES	

PUBLIC WORKS PROJECT #:
9642

SHEET TITLE:
**EXISTING
 CONDITIONS**

SHEET NUMBER:
1.2





PROJECT:
**RENNEBOHM PARK EAST
 TENNIS COURT-2025**

PROJECT ADDRESS:
**RENNEBOHM PARK
 115 N EAU CLAIRE AVE
 MADISON, WI 53705**

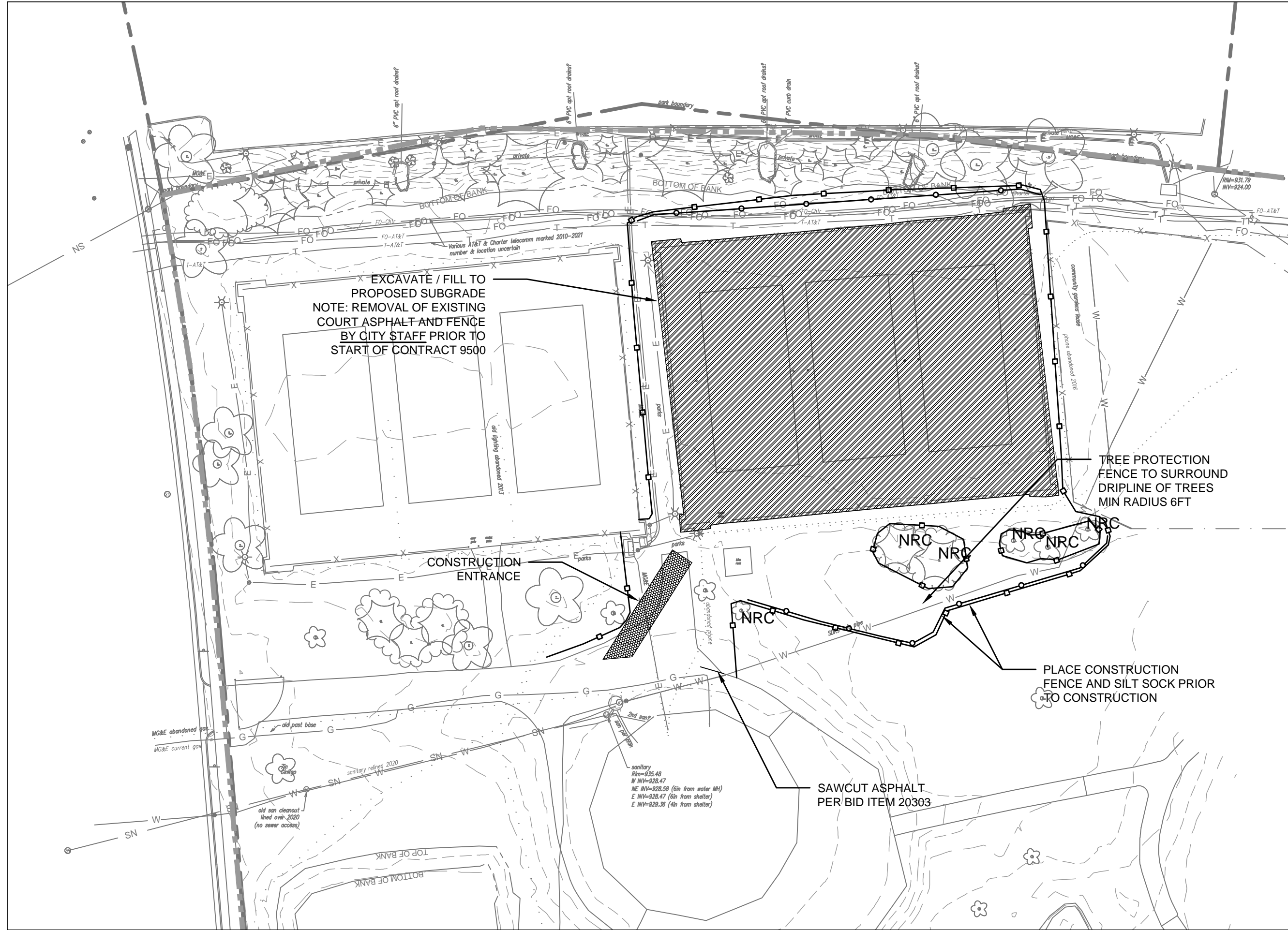
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ITEM	DATE
ADVERTISED TO BID: KK	2024-04-11
DRAWN BY: K KANE	2024-04-01
STORMWATER MANAGEMENT DESIGNED BY: C.STELLIES	
ADVERTISED TO BID: CCS	2025-03-27

PUBLIC WORKS PROJECT #:
9642

SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
1.3



EXCAVATE / FILL TO
 PROPOSED SUBGRADE
 NOTE: REMOVAL OF EXISTING
 COURT ASPHALT AND FENCE
 BY CITY STAFF PRIOR TO
 START OF CONTRACT 9500

TREE PROTECTION
 FENCE TO SURROUND
 DRIPLINE OF TREES
 MIN RADIUS 6FT

CONSTRUCTION
 ENTRANCE

PLACE CONSTRUCTION
 FENCE AND SILT SOCK PRIOR
 TO CONSTRUCTION

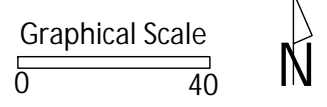
SAWCUT ASPHALT
 PER BID ITEM 20303

NOTES

- 1.) CONSTRUCT BIO RETENTION BASIN PER GRADING PLAN AND S.D.D. 2.09 OF THE CITY OF MADISON STANDARD SPECS
- 2.) NO CONCRETE FLUME TO BE INSTALLED WITH BIOBASIN - SITE SHALL BE GRADED TO ALLOW WATER FROM COURTS AND DISTURBED AREA TO DRAIN TO BASIN
- 3.) ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING

City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715

play
MADISON
PARKS



PROJECT:
RENNEBOHM PARK EAST
TENNIS COURT-2025

PROJECT ADDRESS:
RENNEBOHM PARK
115 N EAU CLAIRE AVE
MADISON, WI 53705

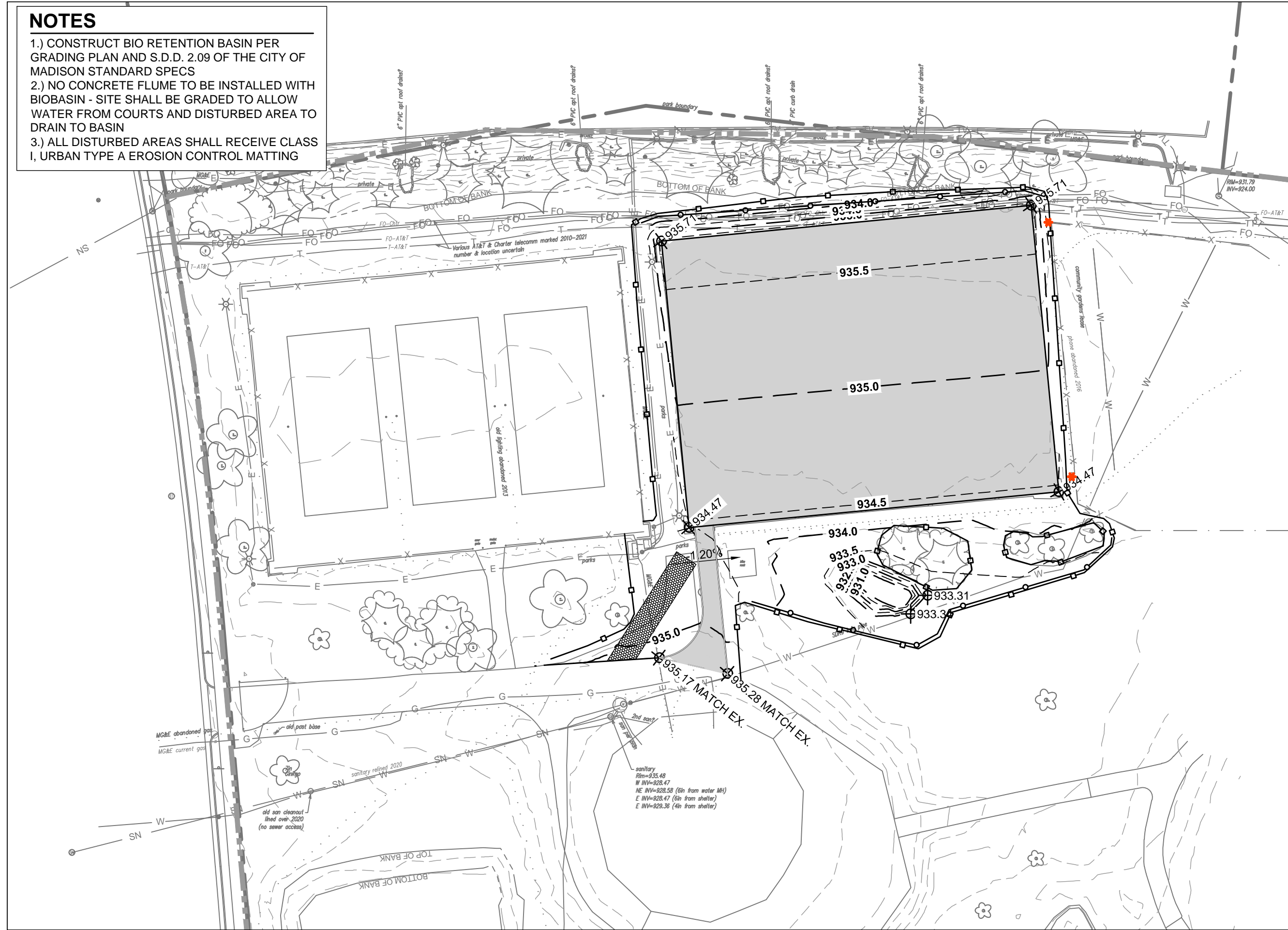
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ITEM	DATE
ADVERTISED TO BID: KK	2024-04-11
DRAWN BY: K KANE	2024-04-01
STORMWATER MANAGEMENT DESIGNED BY: C.STELLIES	
ADVERTISED TO BID: CCS	2025-03-27

PUBLIC WORKS PROJECT #:
9642

SHEET TITLE:
GRADING AND
EROSION CONTROL
PLAN

SHEET NUMBER:
1.5



Rennebohm Park East Tennis Courts Calculations

City of Madison, WI Parks Div
Date Revised: 1/21/2024

Notes:
Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

Existing: Renbm_Surv2021-08-27.dwg
Proposed: Pro GG 1

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Gravel to Court Asphalt	Gravel Excavate	Strip 6in ex gravel base	n/a	n/a	19840	0.50	9920	367.4	0%	367.4
1.2	Gravel to Court Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-21in	19840	varies	17993	666.4	0%	666.4
1.3	Gravel to Court Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-21in	19840	varies	-7	-0.3	0%	-0.3
1.4	Gravel to Court Asphalt	Clearstone (for Pavement) Place	Place 12in clear stone base	n/a	n/a	19840	-1.00	-19840	-734.8	0%	-734.8
1.4	Gravel to Court Asphalt	Gravel (for Pavement) Place	Place 6in gravel base	n/a	n/a	19840	-0.50	-9920	-367.4	0%	-367.4
1.5	Gravel to Court Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	19840	-0.25	-4960	-183.7	0%	-183.7
2.1	Gravel to Path Asphalt	Gravel Excavate	Strip 6in topsoil	n/a	n/a	665	0.50	332	12.3	0%	12.3
2.2	Gravel to Path Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	665	varies	253	9.4	0%	9.4
2.3	Gravel to Path Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	665	varies	0	0.0	0%	0.0
2.4	Gravel to Path Asphalt	Gravel (for Pavement) Place	Place 9in gravel base, out to 6in from asphalt edge	n/a	n/a	665	-0.75	-498	-18.5	0%	-18.5
2.5	Gravel to Path Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	599	-0.25	-150	-5.5	0%	-5.5
2.6	Gravel to Path Asphalt	Topsoil Place	Place 3in topsoil on 6in wide gravel edge	n/a	n/a	66	-0.25	-16	-0.6	0%	-0.6
3.1	Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	9638	0.50	4819	178.5	0%	178.5
3.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	9638	varies	11	0.4	0%	0.4
3.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	9638	varies	-994	-36.8	0%	-36.8
3.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	9638	-0.50	-4819	-178.5	0%	-178.5

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-189.2
Gravel (for Pavement) Place	-385.9
Subsoil Excavate	676.2
Subsoil Place	-37.1
Topsoil Excavate	178.5
Topsoil Place	-179.1
Clearstone (for Pavement) Place	-734.8
Gravel Excavate	379.7
Grand Total	-291.7

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	1234	CY	= Subsoil Excavate + Gravel Excavate + Topsoil Excavate
20217 Clear Stone	1543	tons	= (Clear Stone Place) * -2.1 ton/cubic yard
20202 Fill Borrow	639	CY	= difference of Subsoil Place & Subsoil Excavate
20221 Topsoil	336	SY	= (Topsoil Place) / -187
40102 Crushed Aggregate Base Course Gradation No. 2	772	tons	= (Gravel Place) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28S	409	tons	= Asphalt Place * -2.16 ton/cubic yard

City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715



PROJECT:
RENNEBOHM PARK EAST TENNIS COURTS 2025

PROJECT ADDRESS:
RENNEBOHM PARK 115 N EAU CLAIRE AVE MADISON, WI 53705

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ITEM	DATE
ADVERTISED TO BID: CCS	2025
DRAWN BY: K KANE	2024-04-01
STORMWATER MANAGEMENT DESIGNED BY: C.STELLIES	

PUBLIC WORKS PROJECT #:
9642

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6

City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715



PROJECT:

*RENNEBOHM PARK
 EAST TENNIS COURTS
 2025*

PROJECT ADDRESS:

*RENNEBOHM PARK
 115 N EAU CLAIRE AVE
 MADISON, WI 53705*

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PUBLIC WORKS PROJECT #:

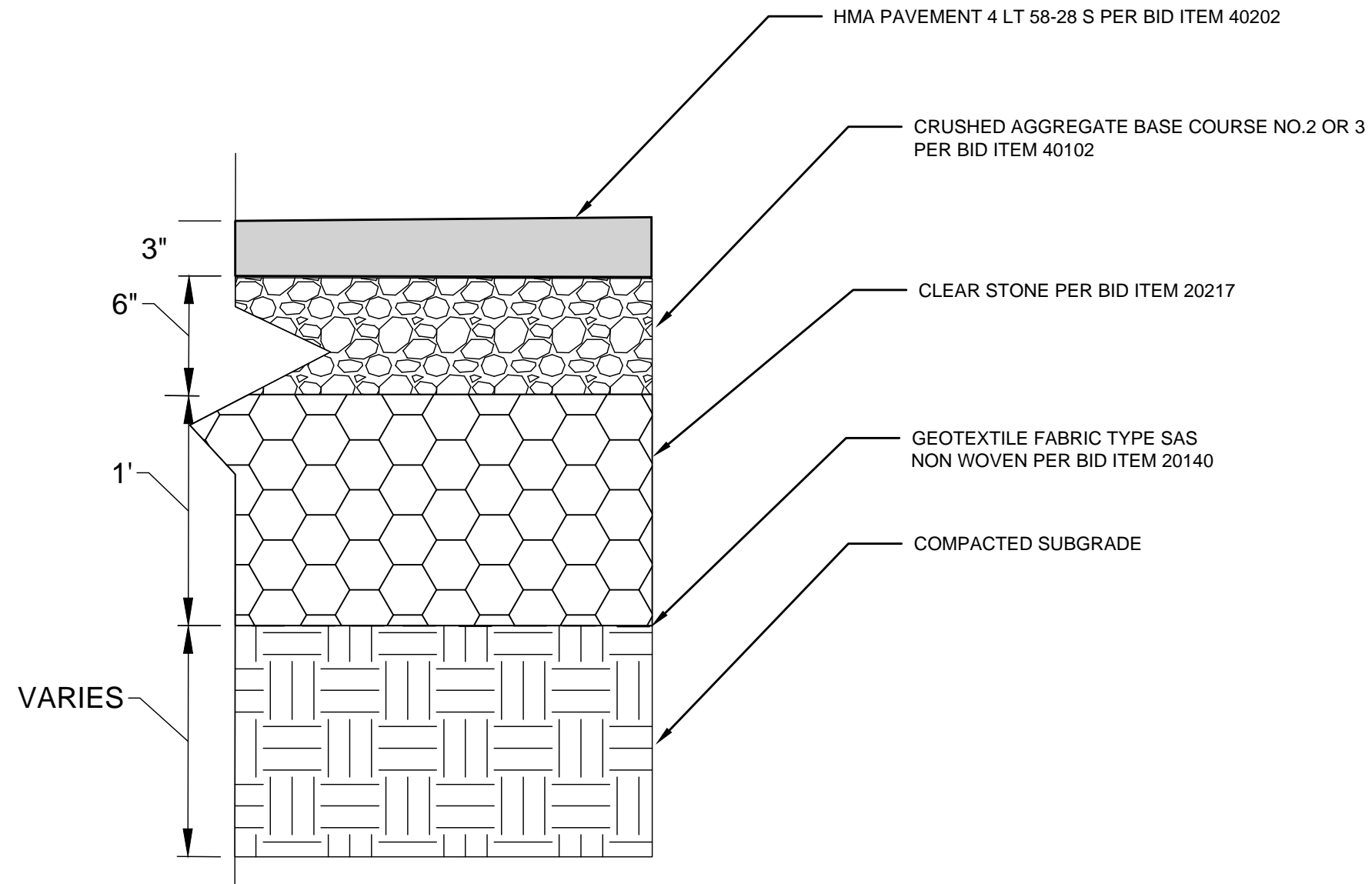
9642

SHEET TITLE:

*ASPHALT COURT
 PAVEMENT DETAIL*

SHEET NUMBER:

1.7

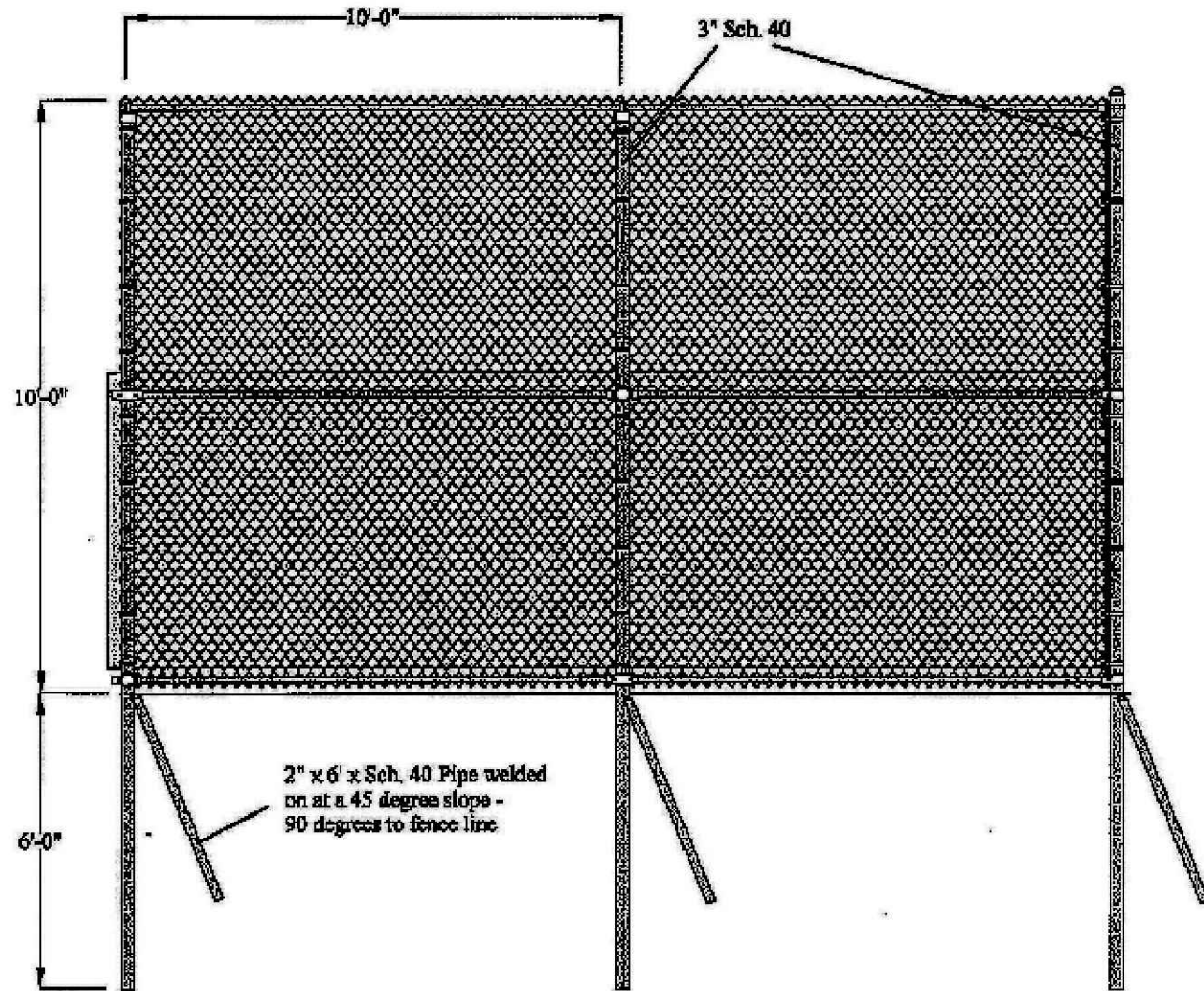


1 *ASPHALT TENNIS COURT
 NTS*

NOTES

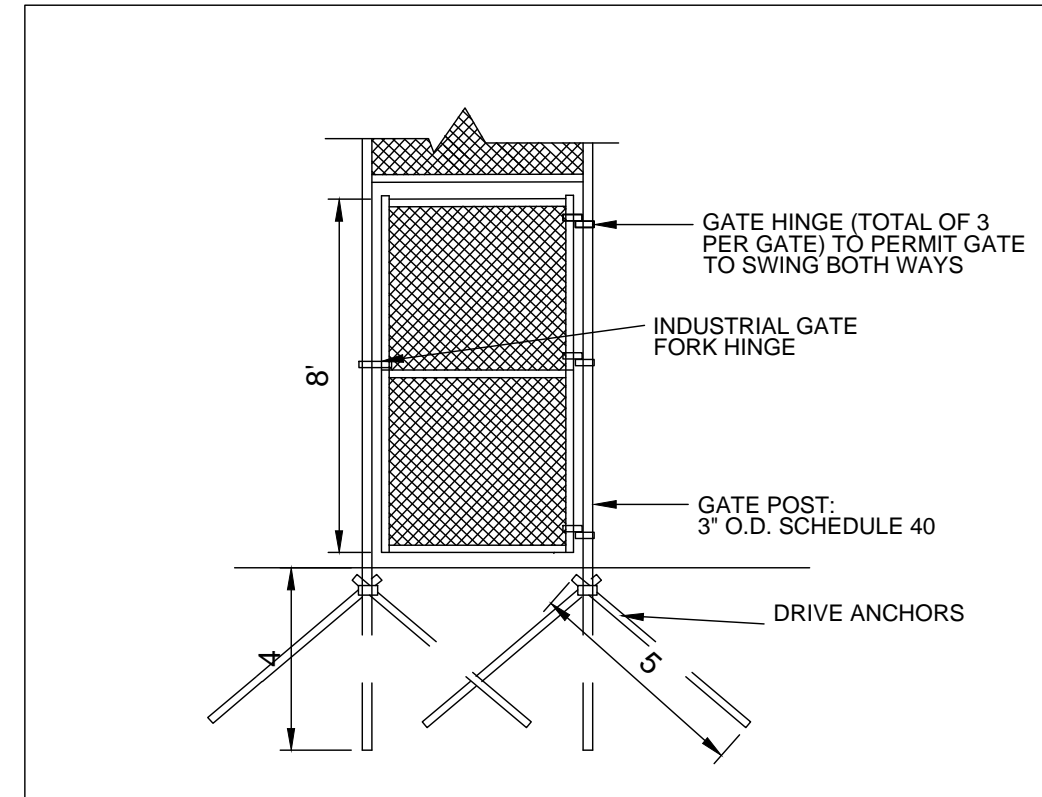
1) FABRIC, FRAME WORK AND FITTINGS FOR CHAIN LINK FENCE PER DETAILS SHOWN ON THIS SHEET AND IN SPECIFICATIONS SECTIONS 90002-90004.

2) END/CORNER POSTS SHALL BE 3" O.D. SCHEDULE 40 WATER PIPE, GALVANIZED; LINE POSTS SHALL BE 3" O.D. SCHEDULE 40 WATER PIPE; RAILS SHALL BE 1 5/8" O.D. SCHEDULE 40 WATER PIPE, GALVANIZED; DRIVE ANCHORS SHALL BE 2" GALVANIZED SCHEDULE 40 WATER PIPE; FABRIC SHALL BE 1 3/4", 11-GAUGE MESH, ALUMINIZED.

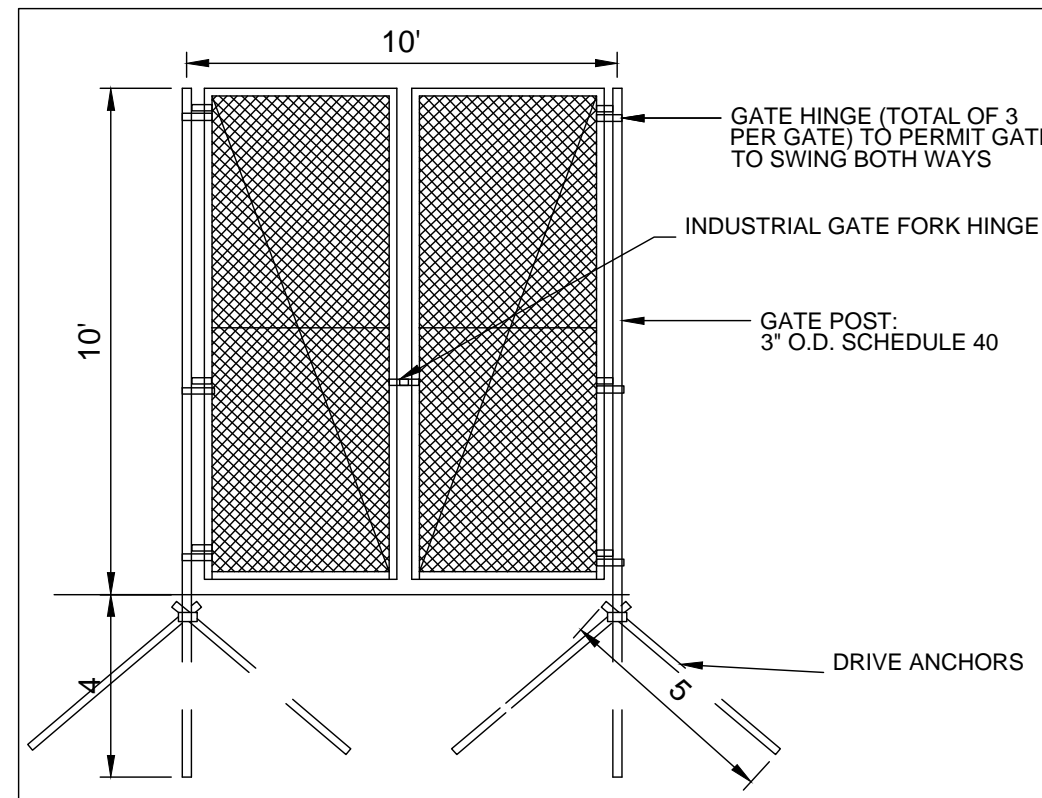


FABRIC	Height		Mesh	Gage	Selvage	Finish	TYPE
	10'	1 3/4"					
FRAMEWORK:	O.D.	WALL	WT PER FT	LENGTH			Schedule 40
END/CORNER POST:	3"	.203	5.79	18'			Schedule 40
LINE POST:	3"	.203	5.79	18'			Schedule 40
RAILS:	1 5/8"	.140	2.27	10' TYP.			Schedule 40

1 10' CHAIN LINK FENCE
NTS



2 4' WIDTH FENCE GATE
NTS



3 10' WIDTH MAINTENANCE GATE
NTS

City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715

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MADISON
PARKS

PROJECT:

**RENNEBOHM PARK EAST
TENNIS COURT-2025**

PROJECT ADDRESS:

**RENNEBOHM PARK
115 N EAU CLAIRE AVE
MADISON, WI 53705**

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STORMWATER MANAGEMENT DESIGNED BY: C.STELLIES	
ADVERTISED TO BID: CCS	2025-03-27

PUBLIC WORKS PROJECT #:

9642

SHEET TITLE:

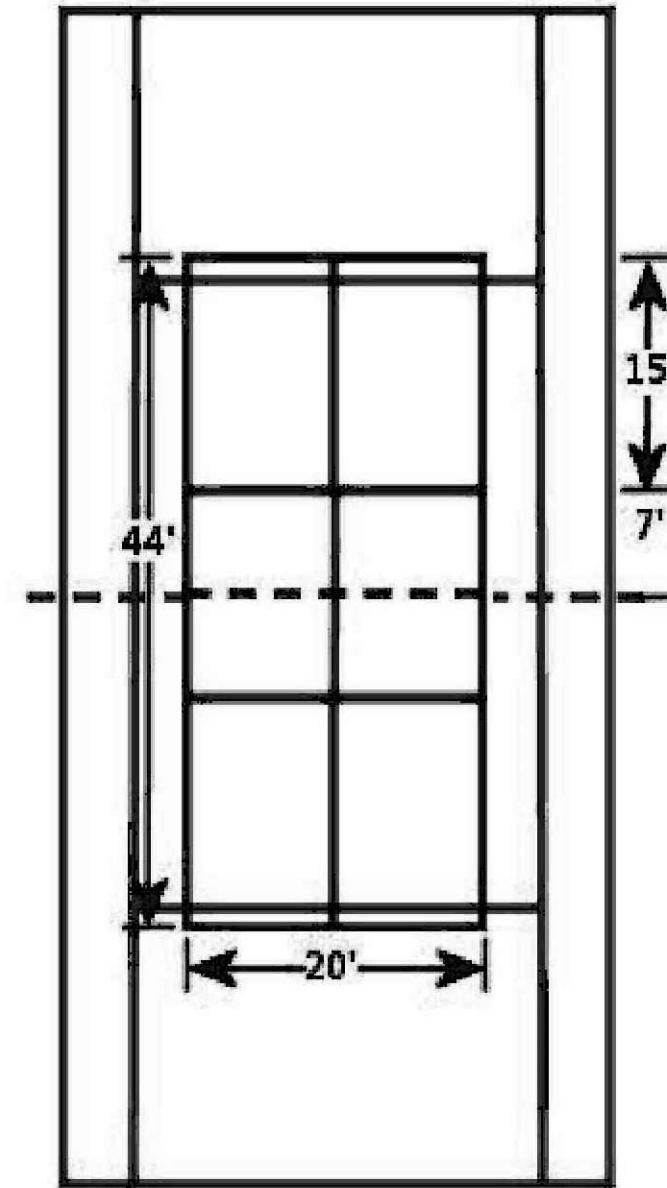
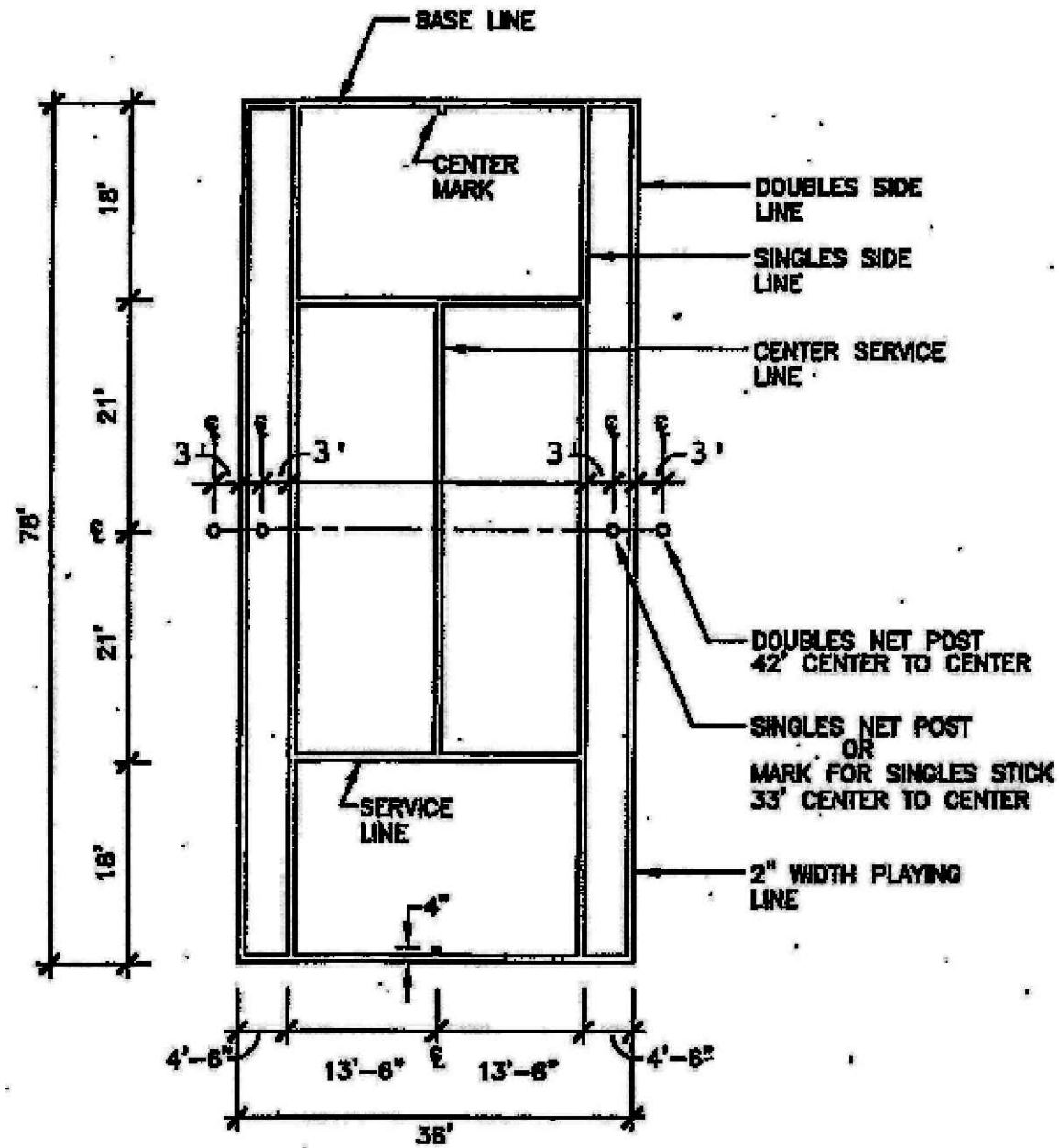
**FENCING AND
GATE DETAILS**

SHEET NUMBER:

1.8

NOTES

- 1) STRIPING DIMENSIONS PER U.S. TENNIS COURT AND TRACK BUILDERS ASSOCIATION & USTA AND USAPA - SEE BID ITEMS 90009 & 90010 FOR MORE INFORMATION
- 2) COURT DIMENSIONS SHOWN ARE INCLUSIVE OF LINES
- 3) WIDTH FOR ALL LINES IS TWO INCHES (2"), EXCEPT THE BASE LINE WHICH MAY BE BETWEEN 2" AND 4" IN WIDTH
- 4) CENTER MARK FOR TENNIS SHALL EXTEND 2" BEYOND INSIDE EDGE OF BASE LINE



① TENNIS COURT STRIPING LAYOUT
NTS

② DUAL TENNIS-PICKLEBALL COURT STRIPING LAYOUT
NTS

City of Madison
Department of Public Works
PARKS DIVISION
330 E Lakeside St
Madison, WI 53715



PROJECT:
*RENNEBOHM PARK EAST
TENNIS COURT-2025*

PROJECT ADDRESS:
*RENNEBOHM PARK
115 N EAU CLAIRE AVE
MADISON, WI 53705*

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STORMWATER MANAGEMENT DESIGNED BY: C.STELLIES	
ADVERTISED TO BID: CCS	2025-03-27

PUBLIC WORKS PROJECT #:
9642

SHEET TITLE:
*COURT STRIPING
DETAILS*

SHEET NUMBER:
1.9

City of Madison
 Department of Public Works
PARKS DIVISION
 330 E Lakeside St
 Madison, WI 53715



PROJECT:

*RENNEBOHM PARK EAST
 TENNIS COURT-2025*

PROJECT ADDRESS:

*RENNEBOHM PARK
 115 N EAU CLAIRE AVE
 MADISON, WI 53705*

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STORMWATER MANAGEMENT DESIGNED BY: C. STELLIES	
ADVERTISED TO BID: CCS	2025-03-27

PUBLIC WORKS PROJECT #:

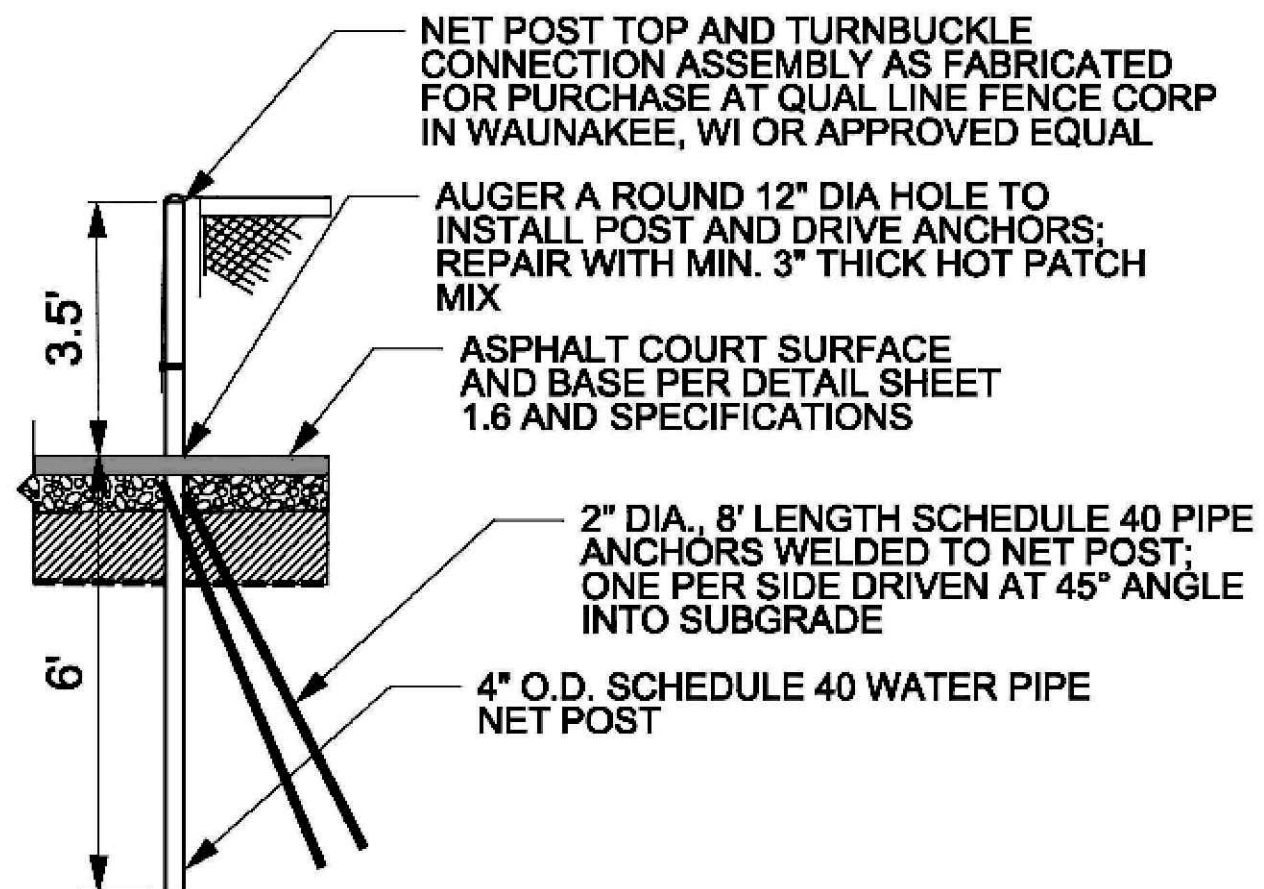
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SHEET TITLE:

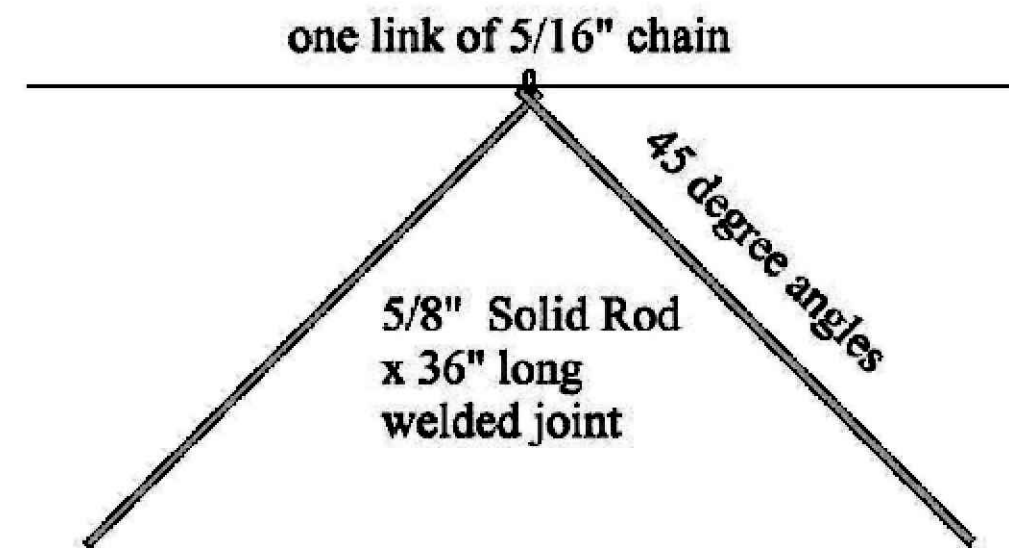
*NET POST AND
 TIE-DOWN
 DETAILS*

SHEET NUMBER:

1.10

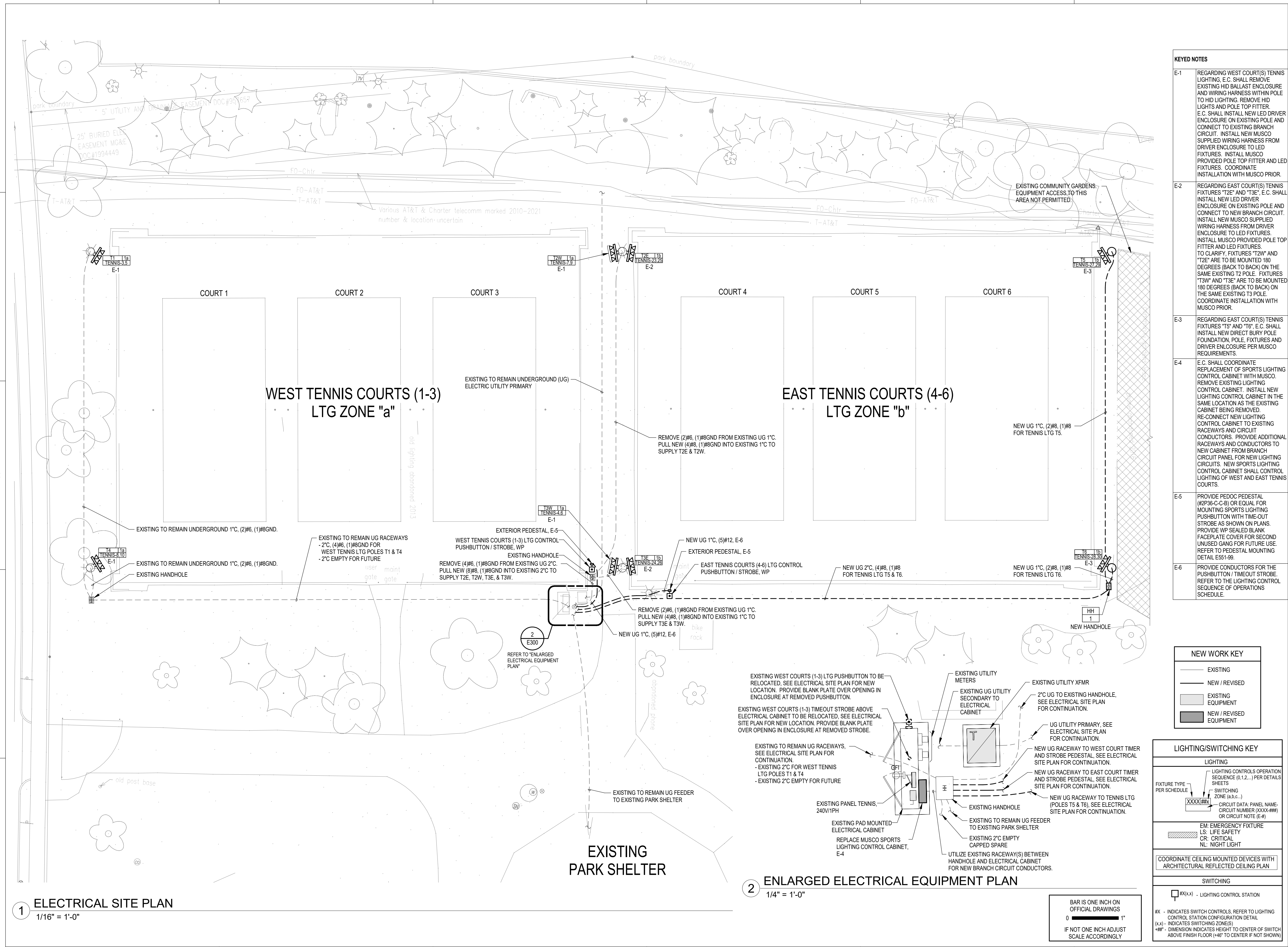


① *NET POST
 NTS*



② *CENTER NET TIE-DOWN
 NTS*

3/1/2024 11:10:51 AM Autodesk Docs://Rennebohm Park Tennis Court Lighting - 24017/MEP - Rennebohm Park Tennis Court Lighting 24017_R24.rvt



KEYED NOTES	
E-1	REGARDING WEST COURT(S) TENNIS LIGHTING, E.C. SHALL REMOVE EXISTING HID BALLAST ENCLOSURE AND WIRING HARNESS WITHIN POLE TO HID LIGHTING. REMOVE HID LIGHTS AND POLE TOP FITTER. E.C. SHALL INSTALL NEW LED DRIVER ENCLOSURE ON EXISTING POLE AND CONNECT TO EXISTING BRANCH CIRCUIT. INSTALL NEW MUSCO SUPPLIED WIRING HARNESS FROM DRIVER ENCLOSURE TO LED FIXTURES. INSTALL MUSCO PROVIDED POLE TOP FITTER AND LED FIXTURES. COORDINATE INSTALLATION WITH MUSCO PRIOR.
E-2	REGARDING EAST COURT(S) TENNIS FIXTURES 'T2E' AND 'T3E', E.C. SHALL INSTALL NEW LED DRIVER ENCLOSURE ON EXISTING POLE AND CONNECT TO NEW BRANCH CIRCUIT. INSTALL NEW MUSCO SUPPLIED WIRING HARNESS FROM DRIVER ENCLOSURE TO LED FIXTURES. INSTALL MUSCO PROVIDED POLE TOP FITTER AND LED FIXTURES. TO CLARIFY, FIXTURES 'T2W' AND 'T2E' ARE TO BE MOUNTED 180 DEGREES (BACK TO BACK) ON THE SAME EXISTING T2 POLE. FIXTURES 'T3W' AND 'T3E' ARE TO BE MOUNTED 180 DEGREES (BACK TO BACK) ON THE SAME EXISTING T3 POLE. COORDINATE INSTALLATION WITH MUSCO PRIOR.
E-3	REGARDING EAST COURT(S) TENNIS FIXTURES 'T5' AND 'T6', E.C. SHALL INSTALL NEW DIRECT BURY POLE FOUNDATION, POLE, FIXTURES AND DRIVER ENCLOSURE PER MUSCO REQUIREMENTS.
E-4	E.C. SHALL COORDINATE REPLACEMENT OF SPORTS LIGHTING CONTROL CABINET WITH MUSCO. REMOVE EXISTING LIGHTING CONTROL CABINET. INSTALL NEW LIGHTING CONTROL CABINET IN THE SAME LOCATION AS THE EXISTING CABINET BEING REMOVED. RE-CONNECT NEW LIGHTING CONTROL CABINET TO EXISTING RACEWAYS AND CIRCUIT CONDUCTORS. PROVIDE ADDITIONAL RACEWAYS AND CONDUCTORS TO NEW CABINET FROM BRANCH CIRCUIT PANEL FOR NEW LIGHTING CIRCUITS. NEW SPORTS LIGHTING CONTROL CABINET SHALL CONTROL LIGHTING OF WEST AND EAST TENNIS COURTS.
E-5	PROVIDE PEDOC PEDESTAL (#236-C-C-B) OR EQUAL FOR MOUNTING SPORTS LIGHTING PUSHBUTTON WITH TIME-OUT STROBE AS SHOWN ON PLANS. PROVIDE WP SEALED BLANK FACEPLATE COVER FOR FUTURE USE. REFER TO PEDESTAL MOUNTING DETAIL E551-99.
E-6	PROVIDE CONDUCTORS FOR THE PUSHBUTTON / TIMEOUT STROBE. REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE.

NEW WORK KEY	
	EXISTING
	NEW / REVISED
	EXISTING EQUIPMENT
	NEW / REVISED EQUIPMENT

LIGHTING/SWITCHING KEY	
LIGHTING	
	LIGHTING CONTROLS OPERATION SEQUENCE (0,1,2...) PER DETAILS SHEETS
	SWITCHING ZONE (A,B,C...)
	CIRCUIT DATA: PANEL NAME, CIRCUIT NUMBER (XXXX-##) OR CIRCUIT NOTE (E-#)
	EM: EMERGENCY FIXTURE
	LS: LIFE SAFETY
	CR: CRITICAL
	NL: NIGHT LIGHT
COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN	
SWITCHING	
	#X(x,x) - LIGHTING CONTROL STATION
#X	- INDICATES SWITCH CONTROLS. REFER TO LIGHTING CONTROL STATION CONFIGURATION DETAIL.
(x,x)	- INDICATES SWITCHING ZONE(S)
##	- DIMENSION INDICATES HEIGHT TO CENTER OF SWITCH ABOVE FINISH FLOOR (+#8" TO CENTER IF NOT SHOWN)

2 ENLARGED ELECTRICAL EQUIPMENT PLAN
 1/4" = 1'-0"

BAR IS ONE INCH ON OFFICIAL DRAWINGS
 0 1'
 IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

1 ELECTRICAL SITE PLAN
 1/16" = 1'-0"

ELECTRICAL ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)

3R	NEMA 3R ENCLOSURE	MCB/MCB	MAIN CIRCUIT BREAKER
4X	NEMA 4X ENCLOSURE	MCC	MOTOR CONTROL CIRCUIT
A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AF	AMPERE FRAME	MCS	MOLDED CASE SWITCH
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MH	MANHOLE
AFJ	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
ANJ	AUTHORITY HAVING JURISDICTION	MTR	MOTOR / METER
AIC	AMP INTERRUPTING CAPACITY	MV	MEDIUM VOLTAGE (601V TO 69KV)
AT	AMPERE TRIP	NA	NOT APPLICABLE
BRKR	BREAKER	NC	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NO	NORMALLY OPEN
NTS	NOT TO SCALE		
CKT	CIRCUIT	OC	ON CENTER
CT	CURRENT TRANSFORMER	OC/PD	OVERCURRENT PROTECTIVE DEVICE
DB	DISTRIBUTION BOARD	OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
DISC	DISCONNECT	OF/OI	OWNER FURNISHED, OWNER INSTALLED
DN	DOWN	OS	OCCUPANCY SENSOR
DP	DISTRIBUTION PANEL	P	POLE
DS	DISCONNECT SWITCH	PB	PULL BOX / PUSH BUTTON
EGC	EQUIPMENT GROUND CONDUCTOR	PC	PHOTOCELL
EMT	ELECTRICAL METALLIC TUBING	PDU	POWER DISTRIBUTION UNIT
EQUIP	EQUIPMENT	PF	POWER FACTOR
ETR	EXISTING TO REMAIN	PH	PHASE
FOR	FEEDER	PNL	PANEL
FDS	FUSED DISCONNECT SWITCH	PT	POTENTIAL TRANSFORMER
FLA	FULL LOAD AMPERES	PTV	PHOTOVOLTAIC
FMC	FLEXIBLE METAL CONDUIT	PVC	POLYVINYL CHLORIDE CONDUIT
FLR	FLOOR	PWR	POWER
FVNR	FULL VOLTAGE NON-REVERSING	RAC	RIGID ALUMINUM CONDUIT
GC	GENERAL CONTRACTOR	REC	RECESSED
GEN	GENERATOR	RCPT	RECEPTACLE
GF/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	REL	RELOCATE
GFP	GROUND FAULT PROTECTED	REQD	REQUIRED
GND	GROUND	RGS	RIGID GALVANIZED STEEL CONDUIT
HH	HAND HOLE	SCCR	SHORT CIRCUIT CURRENT RATING
HDA	HAND OFF AUTOMATIC	SIM	SIMILAR
HP	HORSE POWER	SPD	SURGE PROTECTION DEVICE
HGT	HEIGHT	SPEC	SPECIFICATION
IESCR	INTEGRATED ELECTRICAL SHORT CIRCUIT RATING	SSBJ	SUPPLY SIDE BONDING JUMPER
IG	ISOLATED GROUND	ST	SHUNT TRIP
IMC	INTERMEDIATE METAL CONDUIT	SWBD	SWITCHBOARD
INV	INVERTER	SWGR	SWITCHGEAR
JB	JUNCTION BOX	TS	TAMPER SWITCH
KV	KILOVOLT	TR	TAMPER RESISTANT
KVA	KILOVOLT-AMPERES	TVSS	TRANSIENT VOLT SURGE SUPPRESSOR
KW	KILOWATTS	TYP	TYPICAL
KWH	KILOWATT HOURS	UC	UNDER COUNTER
LAN	LOCAL AREA NETWORK	UG	UNDERGROUND
LCP	LIGHTING CONTROL PANEL	UNO	UNLESS NOTED OTHERWISE
LED	LIGHT EMITTING DIODE	UPS	UNINTERRUPTED POWER SUPPLY
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	USB	UNIVERSAL SERIAL BUS TYPE DEVICE
LI	LONG-TIME / INSTANTANEOUS	V	VOLTS
LSI	LONG-TIME / SHORT-TIME / INSTANTANEOUS	VA	VOLT AMPS
LSIA	LONG-TIME / SHORT-TIME / INSTANTANEOUS / GROUND ALARM	VFD	VARIABLE FREQUENCY DRIVE
LSIG	LONG-TIME / SHORT-TIME / INSTANTANEOUS / GROUND	W	WIRE
LTG	LIGHTING	WG	WIRE GUARD
LV	LOW VOLTAGE (0-49V)	WP	WEATHERPROOF
		WPD	WEATHERPROOF DEVICE - IN USE
		XFMR	TRANSFORMER
		XP	EXPLOSION PROOF

ELECTRICAL SYMBOLS

(NOTE: ALL SYMBOLS SHOWN MAY NOT BE REQUIRED FOR THIS PROJECT)
(NOTE: +##" INDICATES DIMENSION HEIGHT TO CENTER OF DEVICE ABOVE FINISHED FLOOR.
IN GENERAL, ALL RECEPTACLES ARE TO BE +18" UNLESS NOTED OTHERWISE.)

	POLE AND LUMINAIRE, ARROW INDICATES AIMING		WIRING DEVICES ***
	POLE AND TWO LUMINAIRE, ARROWS INDICATE AIMING		TYPICAL DEVICE CLASSIFICATION: GFI - INDICATES GROUND FAULT INTERRUPTER DEVICE
	POST TOP LUMINAIRE		IG - INDICATES ISOLATED GROUND DEVICE
	FLOOD LIGHT - GROUND MOUNTED		TR - INDICATES TAMPER RESISTANT DEVICE
	BOLLARD ON CONCRETE BASE		USB - INDICATES USB TYPE DEVICE
	FLOOD LIGHT - IN GROUND		WP - INDICATES DEVICE WITH WEATHERPROOF BOX/FLIPCOVER
	SPORTS LIGHT POLE AND LUMINAIRE, REFER TO SCHEDULE		WPD - INDICATES DEVICE WITH WEATHERPROOF BOX/CORD AND PLUG COVER
	SURFACE RACEWAY - CONDUIT UNLESS NOTED OTHERWISE		DUPLEX RECEPTACLE
	CONDUIT CONCEALED IN WALL OR CEILING		DOUBLE DUPLEX RECEPTACLE
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND		PUSHBUTTON
	HOME RUN TO PANELBOARD - NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS		ANY WIRING DEVICE WITH THIS SYMBOL INDICATES SURFACE MOUNTED OUTLET BOX
	WIREWAY		SCHEMATIC RISER DIAGRAM ***
	JUNCTION BOX		FEEDER INSTALLATION - LINE VOLTAGE
	JUNCTION BOX - WALL MOUNTED		FEEDER INSTALLATION - LOW VOLTAGE
	HANDHOLE BOX - IN GROUND		NEW FEEDER/CONDUIT PER SCHEDULE
	GROUND		EXISTING FEEDER / CONDUIT PER SCHEDULE
	SPLICE CONNECTION FROM EXISTING TO NEW		SAFETY SWITCH/MOTOR DISCONNECT
	CONDUIT STUB		TRANSFORMER - OIL FILLED
	CONDUIT CONTINUATION		METER
	CONDUIT TURNING UP		PANEL OR AS NOTED
	CONDUIT TURNING DOWN		SURGE PROTECTION DEVICE
	EQUIPMENT CONNECTION		GROUND
	EQUIPMENT CONNECTION - WALL MOUNTED		CIRCUIT BREAKER, NUMBER DENOTES TRIP RATING
	SAFETY DISCONNECT SWITCH		
	SURFACE BRANCH CIRCUIT PANELBOARD		
	SPECIAL BRANCH AS NOTED - SURFACE MOUNTED		
	GROUND BAR		
	TRANSFORMER		
	EQUIPMENT SERVICE CLEARANCE		

GENERAL ELECTRICAL NOTES:

- REFER TO THE PROJECT MANUAL AND STANDARD DETAILS FOR MORE DETAILED INFORMATION FOR THESE ITEMS AND FOR ALL OTHER MATERIALS AND CONSTRUCTION METHODS REQUIRED.
 - MINIMUM WIRE SIZE TO BE #12 FOR CONTROL POWER.
 - MINIMUM SIZE WIRE TO BE #8 FOR UNDERGROUND POWER.
 - ALL CONDUITS, JUNCTION BOXES, WIRING, EQUIPMENT, ETC. TO BE PROPERLY LABELED.
 - PROVIDE GREEN GROUND CONDUCTOR THROUGHOUT ENTIRE ELECTRICAL SYSTEM.
 - ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS, WHEN REQUIRED, TO MEET NEC WITHOUT HAVING HANDLE TIES. SHARED NEUTRALS ARE NOT ALLOWED.
- DRAWINGS ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, AND TO INDICATE THE GENERAL LOCATIONS OF EQUIPMENT AND SOME FEEDERS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT THEIR OWN WORK ACCORDING TO THE FOLLOWING GUIDELINES:
 - COORDINATE DEVICE LOCATIONS AND HEIGHTS WITH CITY OF MADISON PARKS DEPARTMENT PRIOR TO RIGGING.
 - CONTRACTOR SHALL INSTALL EQUIPMENT PER CLEARANCES LISTED IN NEC.
- ALL ELEMENTS OF THE CONSTRUCTION SHALL BE PERFORMED BY TRADES PEOPLE SKILLED IN THE PARTICULAR CRAFT INVOLVED, AND REGULARLY EMPLOYED IN THAT PARTICULAR CRAFT. ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER IN KEEPING WITH THE HIGHEST STANDARDS OF THE CRAFT.
- CIRCUIT NUMBERS SHOWN HAVE BEEN CHOSEN TO AID IN DESIGN AND TO PROVIDE CLARITY OF SCOPE OF WORK. ADJUST AS NECESSARY BASED ON FIELD CONDITIONS.
- PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORIES AT ALL EXISTING PANELBOARDS WITH NEW OR MODIFIED CIRCUITS.
- ANY WORK REQUIRING POWER INTERRUPTION TO OCCUPIED AREAS SHALL BE SCHEDULED WITH THE OWNER.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL PARTS OF THE SITE THAT WERE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
- ALL DISTURBED AND UNPAVED AREAS SHALL BE RESTORED IN KIND TO LAWN OR LANDSCAPE AREAS. LAWN AREAS SHALL BE SEEDED OR SODDED AND PROTECTED FROM EROSION WHILE BECOMING ESTABLISHED. DISCUSS THE REQUIRED MAINTENANCE AND WATERING RESPONSIBILITIES WITH THE CITY OF MADISON PARKS REPRESENTATIVE. USE GRASSES AND PLANTING THAT WILL TOLERATE THE PLANTING LOCATION AND MINIMIZE MAINTENANCE.
- INSTALLATION OF THE TENNIS COURT LIGHTING SYSTEM IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE ALL REQUIRED HOISTING, RIGGING, PERMITTING, ETC. REQUIRED FOR LIFTING LIGHT POLES AND ASSOCIATED EQUIPMENT INTO PLACE.
- ELECTRICAL CONTRACTOR SHALL PROTECT THE PLAYING SURFACE FROM DAMAGE. ANY DAMAGE RESULTING FROM INSTALLATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ADJACENT TO THE EAST COURT IS A COMMUNITY GARDEN. REFER TO SITE PLAN. THIS AREA SHALL NOT BE DISTURBED BY THE CONTRACTOR.

ELECTRICAL KEYED NOTES

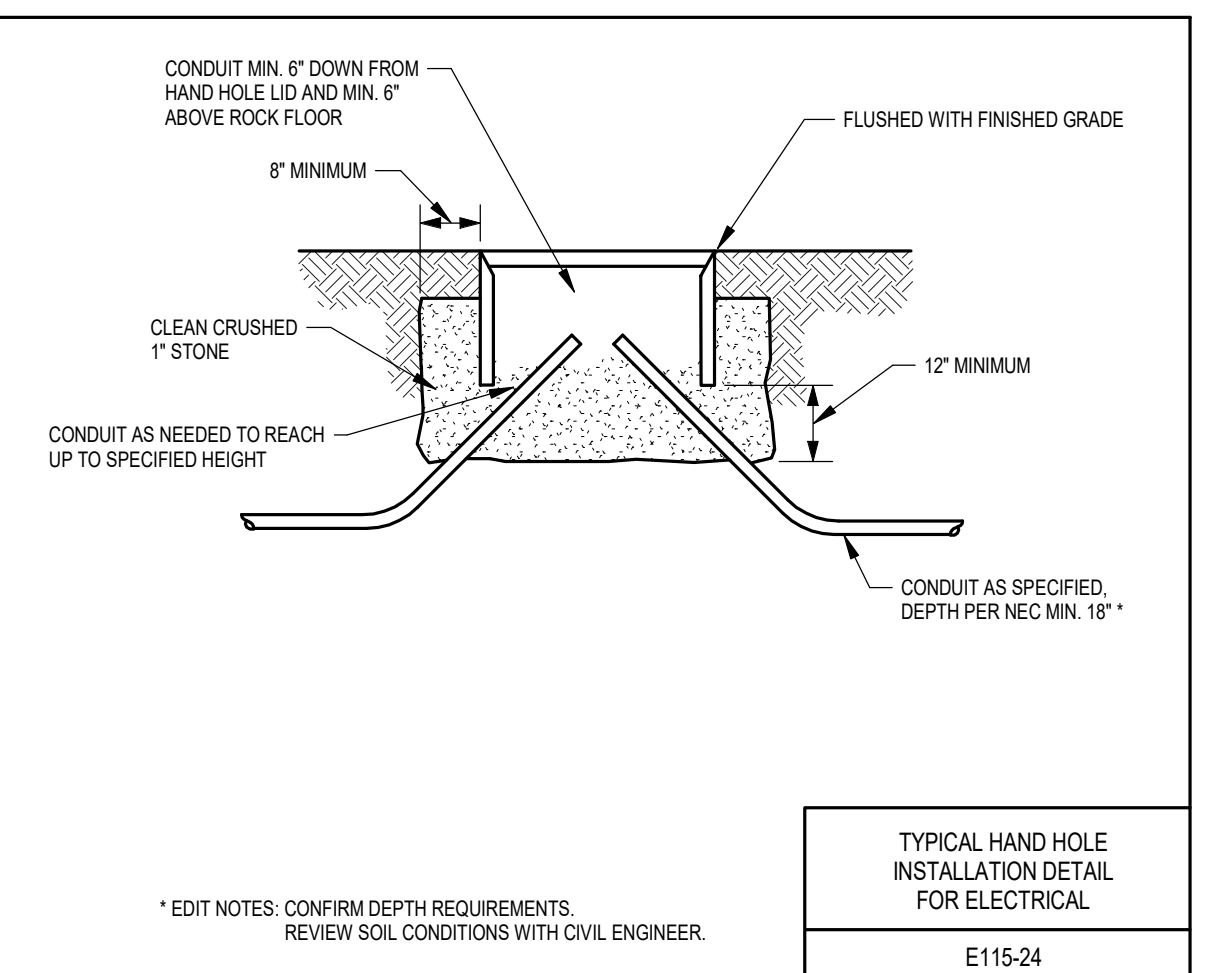
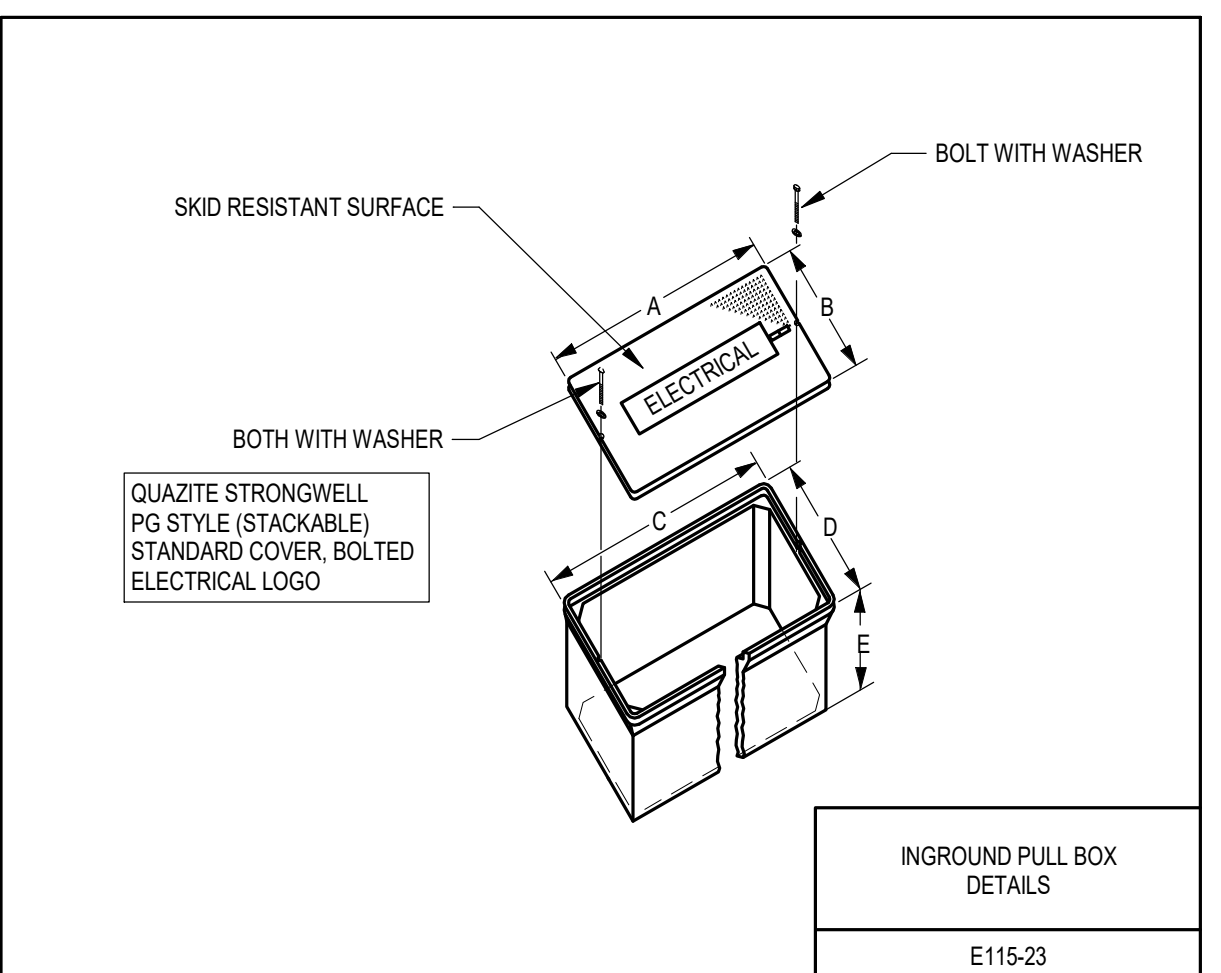
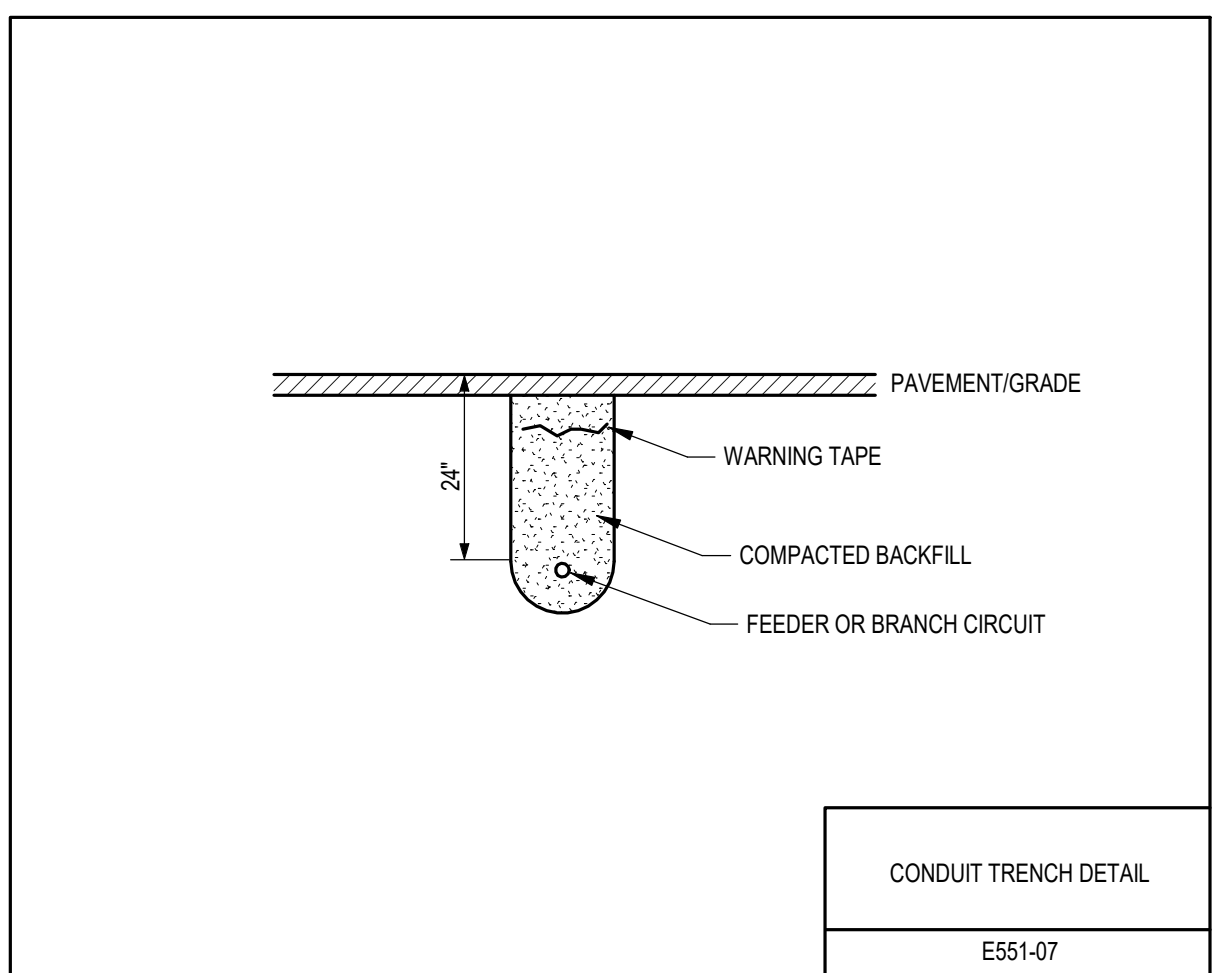
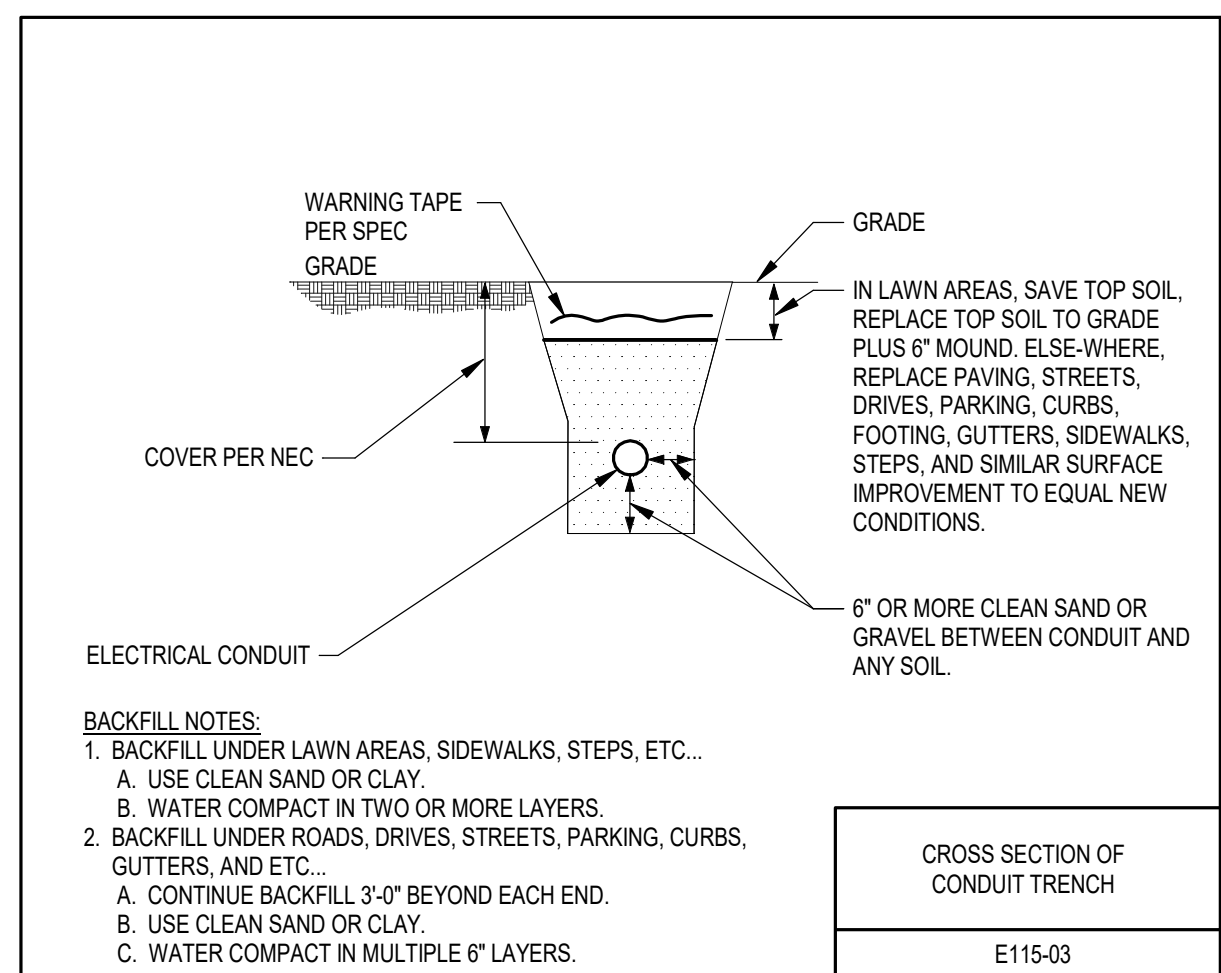
E-1	REGARDING WEST COURT(S) TENNIS LIGHTING. E.C. SHALL REMOVE EXISTING HID BALLAST ENCLOSURE AND WIRING HARNESS WITHIN POLE TO HID LIGHTING. REMOVE HID LIGHTS AND POLE TOP FITTER. E.C. SHALL INSTALL NEW LED DRIVER ENCLOSURE ON EXISTING POLE AND CONNECT TO EXISTING BRANCH CIRCUIT. INSTALL NEW MUSCO SUPPLIED WIRING HARNESS FROM DRIVER ENCLOSURE TO LED FIXTURES. INSTALL MUSCO PROVIDED POLE TOP FITTER AND LED FIXTURES. COORDINATE INSTALLATION WITH MUSCO PRIOR.
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E-4	E.C. SHALL COORDINATE REPLACEMENT OF SPORTS LIGHTING CONTROL CABINET WITH MUSCO. REMOVE EXISTING LIGHTING CONTROL CABINET. INSTALL NEW LIGHTING CONTROL CABINET IN THE SAME LOCATION AS THE EXISTING CABINET BEING REMOVED. RE-CONNECT NEW LIGHTING CONTROL CABINET TO EXISTING RACEWAYS AND CIRCUIT CONDUCTORS. PROVIDE ADDITIONAL RACEWAYS AND CONDUCTORS TO NEW CABINET FROM BRANCH CIRCUIT PANEL FOR NEW LIGHTING CIRCUITS. NEW SPORTS LIGHTING CONTROL CABINET SHALL CONTROL LIGHTING OF WEST AND EAST TENNIS COURTS.
E-5	PROVIDE PEDOC PEDESTAL (#2P36-C-C-B) OR EQUAL FOR MOUNTING SPORTS LIGHTING PUSHBUTTON WITH TIME-OUT STROBE AS SHOWN ON PLANS. PROVIDE WP SEALED BLANK FACEPLATE COVER FOR SECOND UNUSED GANG FOR FUTURE USE. REFER TO PEDESTAL MOUNTING DETAIL E511-99.
E-6	PROVIDE CONDUCTORS FOR THE PUSHBUTTON / TIMEOUT STROBE. REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE.

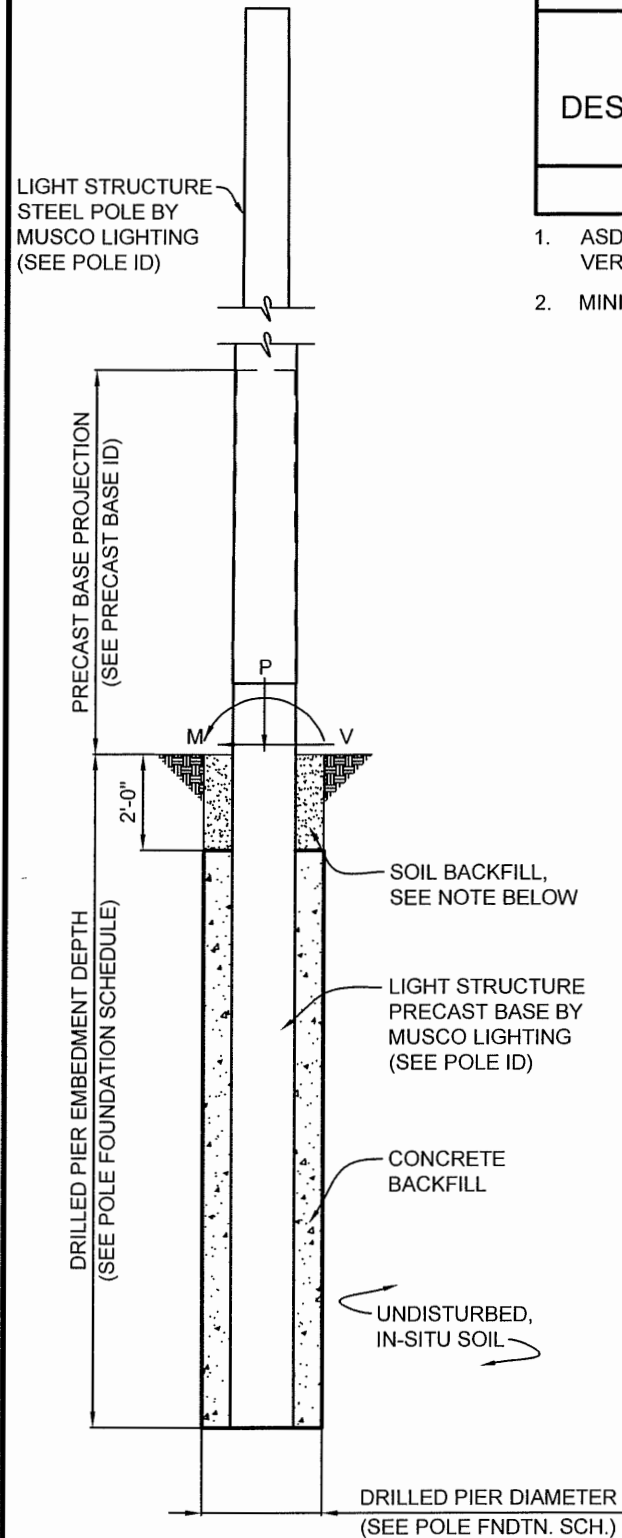
DESCRIPTION	SUPPLIED BY	INSTALLED BY	WIRED BY
POLE FOUNDATIONS	MUSCO	EC	EC
EXCAVATION, TRENCHING, BACKFILL, RESTORATION	EC	EC	-
LIGHT FIXTURES AND POLE FITTERS	MUSCO	EC	EC
POLE MOUNTED DRIVER ENCLOSURES	MUSCO	EC	EC
INTERNAL POLE WIRING HARNESS: DRIVER TO LIGHT	MUSCO	EC	EC
LIGHTING CONTROL AND CONTACTOR CABINET	MUSCO	EC	EC
TIMER PUSH BUTTON AND STROBE DEVICES	MUSCO	EC	EC
TIMER/STROBE PEDESTAL	EC	EC	EC
BRANCH CIRCUIT PANEL MODIFICATIONS	EC	EC	EC
BRANCH RACEWAY AND WIRING	EC	EC	EC
HAND HOLES	EC	EC	EC

GENERAL NOTES:
1. INSTALLATION RESPONSIBILITIES INCLUDES ALL REQUIRED RIGGING, HOISTING, PERMITTING, ETC. FOR COMPLETE INSTALLATION.

PLAN MARK	SIZE	DEPTH	TIER RATING	COVER IDENTIFICATION	QUAZITE SERIES	NOTES
HH-1	13" X 24"	18"	15	ELECTRICAL	PG	

NOTES:
1. OPEN BOTTOM WITH MOUSE HOLES.
2. REFER TO SPECIFICATION 26 05 33 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS FOR ADDITIONAL INFORMATION.





POLE FOUNDATION SCHEDULE						
POLE DESIGNATION	FORCES (1.)			DRILLED PIER		
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH	CONCRETE BACKFILL YD ³ (2.)
T5, T6	22,737	744	867	36	10'-0"	1.9

- ASD LOAD COMBINATION D + 0.6W. VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).
- MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
2B	1,690 LBS	17'-3"	7'-3"	10'-0"	12.00"

POLE IDENTIFICATION				
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
T5, T6	LSS50AB	2B	3 (3)	6.9

DESIGN NOTES

DESIGN PARAMETERS:
 WIND: $V_{ult} = 115$ MPH, $V_{asd} = 89$ MPH (EXPOSURE C, RISK CATEGORY II) PER INTERNATIONAL BUILDING CODE, 2015 EDITION (ASCE 7-10). DESIGN WIND PARAMETERS ARE AS NOTED, ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:
 ALLOWABLE END BEARING SOIL PRESSURE: 3,000 PSF (NATURAL SAND)
 ALLOWABLE LATERAL SOIL BEARING PRESSURE: NEGLECT (GRADE TO -2'-0");
 C12075-18 TABLE 1 & C12075-18 BORING B-2 & C21015-32 BORING B-2 (BELOW -2'-0").
 IN ACCORDANCE WITH THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, NO. C12075-18 & C21051-32, PREPARED BY CGC, INC.; MADISON, WI.

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.

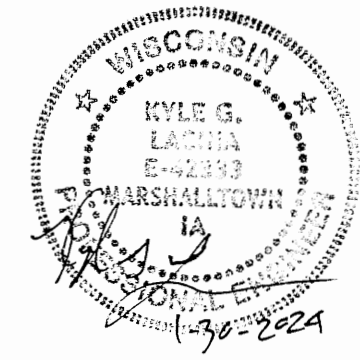
CONCRETE:
 CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED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

POLE FOUNDATION ELEV.

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:
 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 PROCTOR TESTING (ASTM D698).



RENNEBOHM PARK
 TENNIS PHASE 2
 COURT LIGHTING
 MADISON, WI



STRUCTURAL
 ENGINEERS, P.C.
 114 NICHOLAS DRIVE
 MARSHALLTOWN, IOWA 50158
 PHONE NUMBER: 641-752-6334
 EMAIL: MSL.INFO@SEPC.BIZ

DRAWING TITLE: POLE AND FOUNDATION	PROJECT NUMBER 211766
SCALE: SEE PLAN	DATE 30 JANUARY 2024
NOTES: SCAN #211766A	DRAWING NUMBER C1
	OF ONE