

CONSTRUCTION DOCUMENTS

PICKLEBALL COURTS

EAST TENNESSEE STATE UNIVERSITY

JOHNSON CITY, TENNESSEE

SBC PROJECT NO. 369/000-01-2021

CODE SYNOPSIS

GOVERNING CODES:
 2021 International Building Code
 2023 National Electric Code
 2021 NFPA Life Safety Code (NFPA 101)

OCCUPANCY CLASSIFICATION:
 N/A

BUILDING CONSTRUCTION:
 N/A

PROJECT DESCRIPTION

- WORK IS LIMITED TO THE FOLLOWING:
- NEW PICKLEBALL COURTS INCLUDING PLAYING SURFACE AND PERIMETER FINISHES
 - NEW PICKLEBALL LIGHTING SYSTEM
 - PROVISIONS FOR FUTURE COMMUNICATIONS CABLING

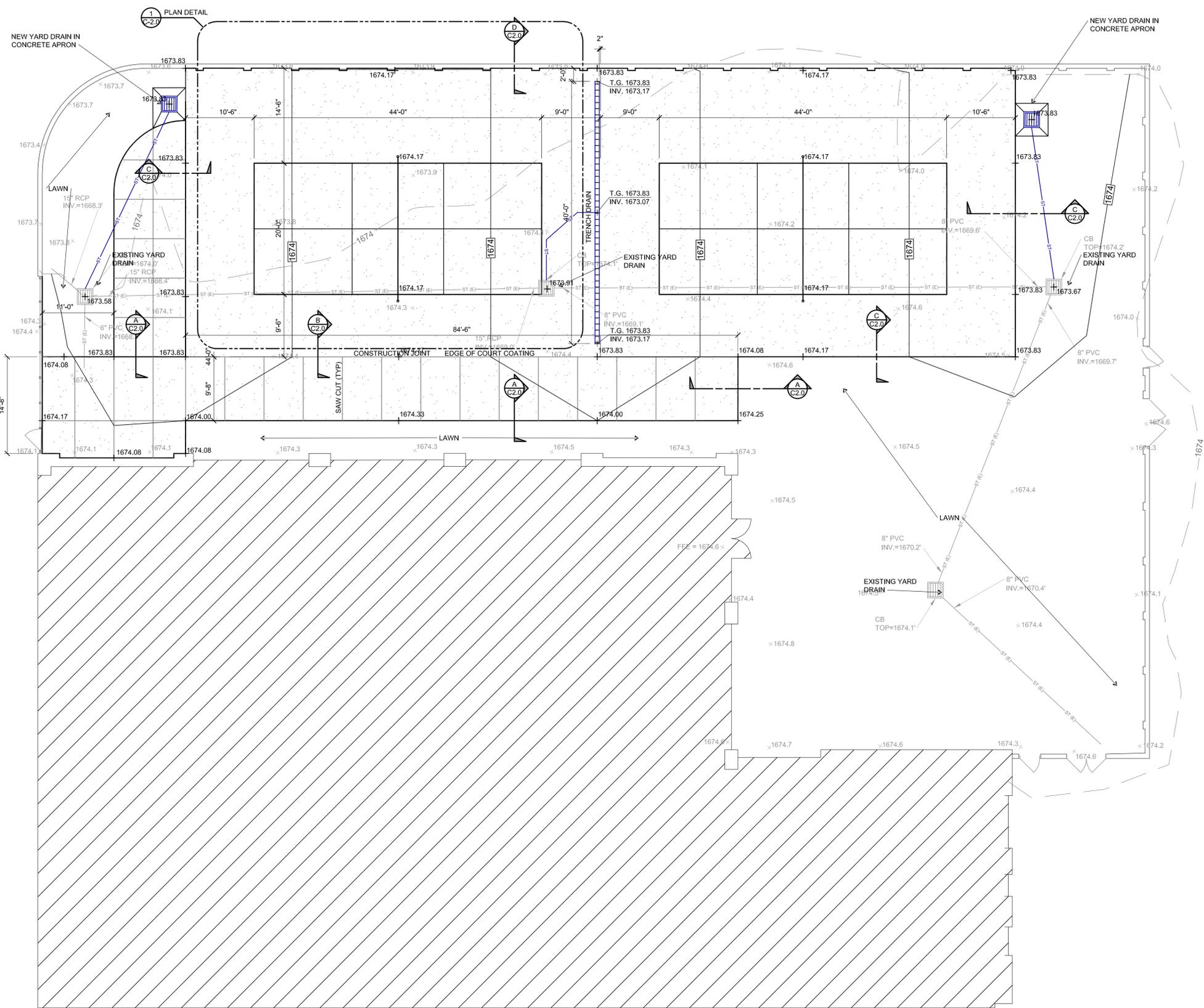
DRAWING INDEX	
SHT NO.	DRAWING TITLE
	COVER SHEET AND INDEX
C 1.0	PICKLEBALL COURT PLAN
C 2.0	LEGENDS AND SCHEDULES
C 3.0	GRADING AND DRAINAGE PLAN
C 4.0	GRADING AND DRAINAGE DETAILS
EO.1	LEGENDS AND SCHEDULES
E1.1	SITE LIGHTING AND POWER PLAN
E1.2	SITE COMMUNICATION PLAN
E1.3	SITE PHOTOMETRICS PLAN

ENGINEERS:

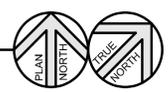


ARCHITECT:





PICKLEBALL COURT PLAN
SCALE: 1/8" = 1'-0"



FACILITY SYSTEMS CONSULTANTS, LLC
713 S. Central Street
Suite 101
Knoxville, Tennessee 37902
ph: (865) 246-0164
fx: (865) 246-1084

This drawing and the design shown are the property of Facility System Consultants, LLC, and are not to be reproduced, copied, published or used in whole or in part without written consent. They are to be used only for the project and site identified and shall be returned upon request.



Revisions:

ETSU PICKLEBALL COURTS - BASLER CENTER FOR PHYSICAL ACTIVITY
1244 JACK VEST DRIVE, JOHNSON CITY, TN 37614
EAST TENNESSEE STATE UNIVERSITY
JOHNSON CITY, TENNESSEE
SBC PROJECT NUMBER: 369/000-01-2021E

Job No: ETS508
Date: 11/19/2025
Designed by: DW
Drawn by: JG

Sheet Title:
LEGENDS AND SCHEDULES
Scale: AS NOTED

SHEET
C 1.0

photo: 11/17/2025 2:16:09 PM file: X-BEE.ETSU.PICKLEBALL.DWG



FACILITY SYSTEMS CONSULTANTS, LLC
 713 S. Central Street
 Suite 101
 Knoxville, Tennessee 37902
 ph: (865) 246-0164
 fx: (865) 246-1084

This drawing and the design shown are the property of Facility System Consultants, LLC, and are not to be reproduced, copied, published or used in whole or in part without written consent. They are to be used only for the project and site identified and shall be returned upon request.



Revisions:

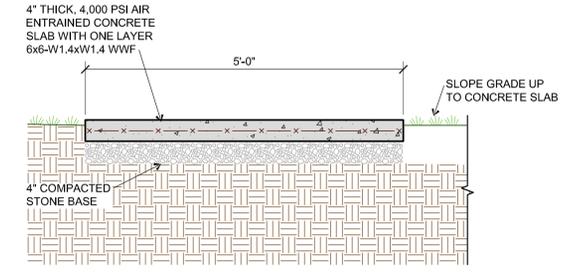
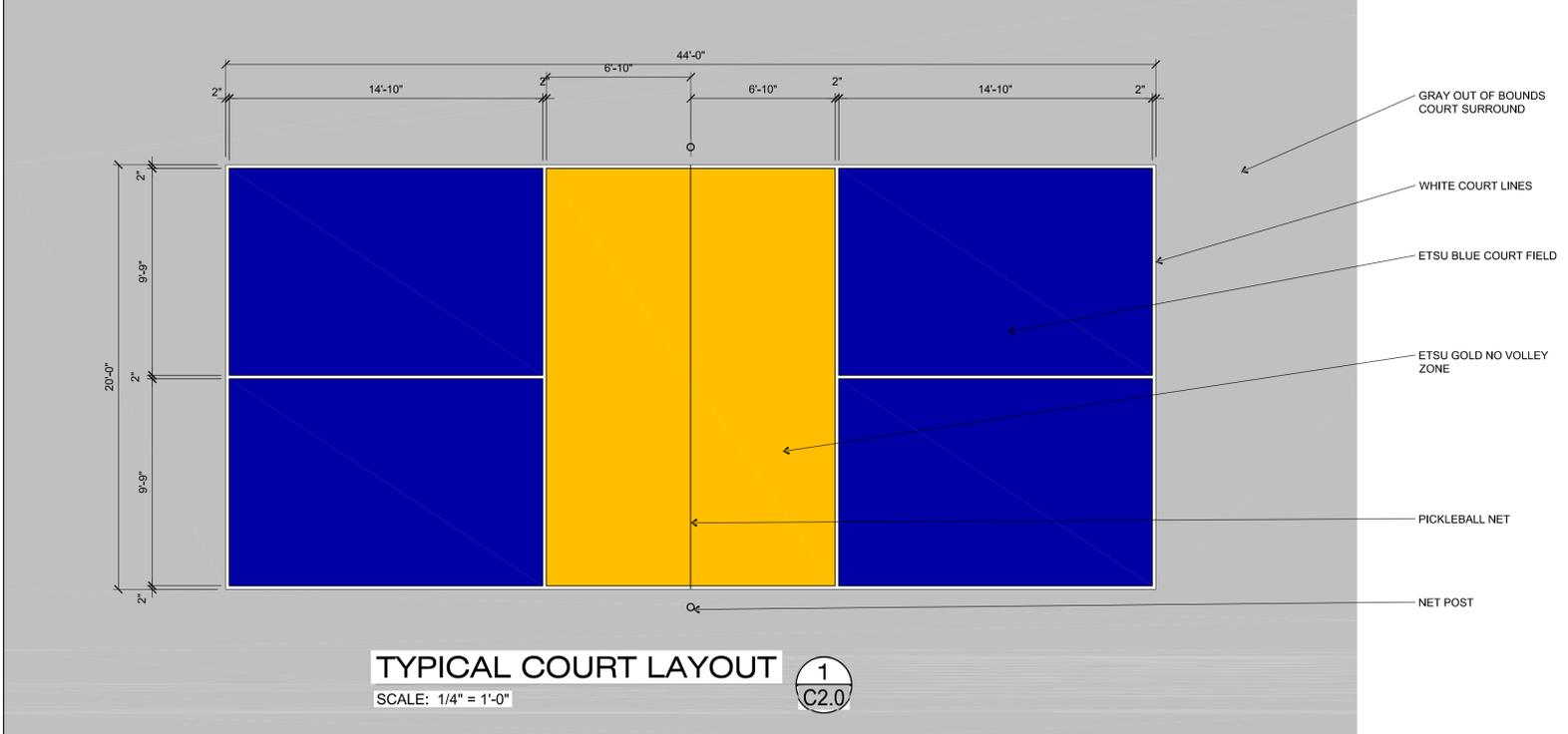
ETSU PICKLEBALL COURTS - BASLER CENTER FOR PHYSICAL ACTIVITY
 1244 JACK VEST DRIVE, JOHNSON CITY, TN 37614
EAST TENNESSEE STATE UNIVERSITY
JOHNSON CITY, TENNESSEE
 SBC PROJECT NUMBER: 369/000-01-2021E

Job No: ETS508
 Date: 11/19/2025
 Designed by: DW
 Drawn by: JG

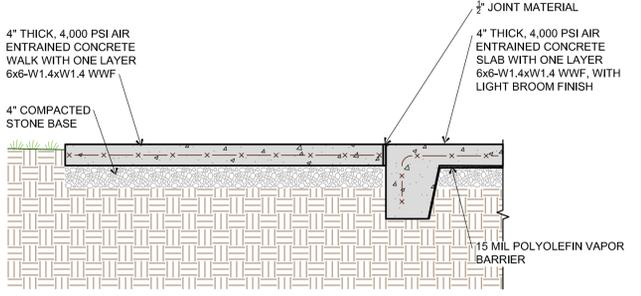
Sheet Title:
 LEGENDS AND SCHEDULES

Scale: AS NOTED

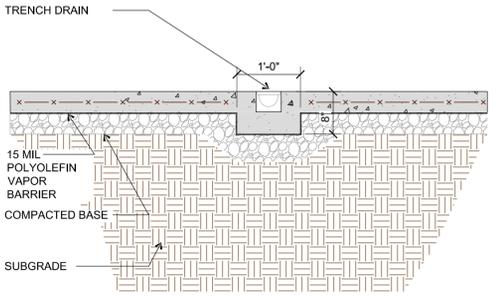
SHEET
C 2.0



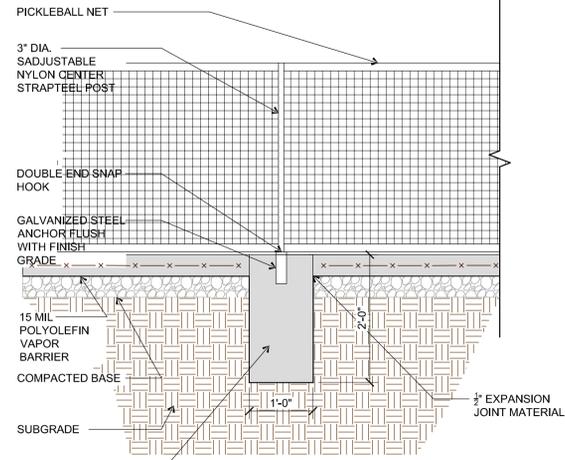
SIDEWALK SECTION A
 SCALE: 3/4" = 1'-0"



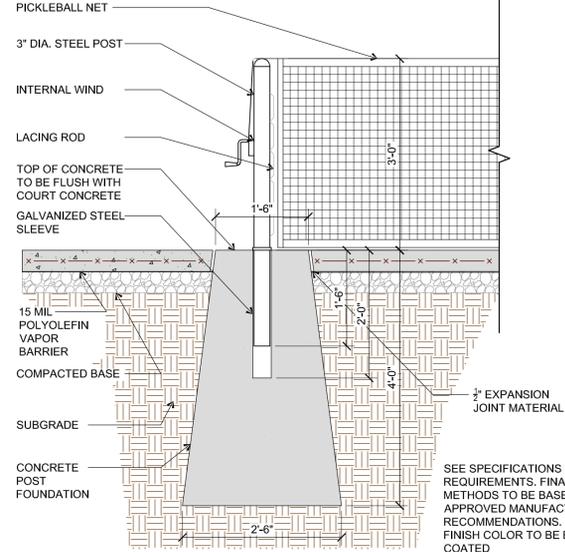
SIDEWALK SECTION B
 SCALE: 3/4" = 1'-0"



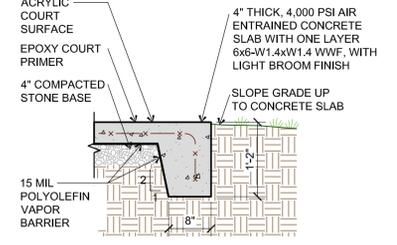
TRENCH DRAIN DETAIL G
 SCALE: 3/4" = 1'-0"



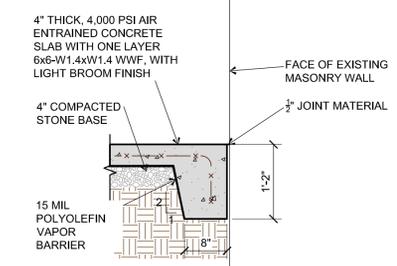
CENTER STRAP DETAIL F
 SCALE: 3/4" = 1'-0"



NET POST DETAIL E
 SCALE: 3/4" = 1'-0"



COURT EDGE DETAIL C
 SCALE: 3/4" = 1'-0"



COURT EDGE DETAIL D
 SCALE: 3/4" = 1'-0"

SEE SPECIFICATIONS FOR ALL DRAIN REQUIREMENTS. FINAL INSTALLATION METHODS TO BE BASED ON APPROVED MANUFACTURER'S RECOMMENDATIONS.

SEE SPECIFICATIONS FOR ALL ANCHOR REQUIREMENTS. FINAL INSTALLATION METHODS TO BE BASED ON APPROVED MANUFACTURER'S RECOMMENDATIONS.

SEE SPECIFICATIONS FOR ALL POST REQUIREMENTS. FINAL INSTALLATION METHODS TO BE BASED ON APPROVED MANUFACTURER'S RECOMMENDATIONS. FINISH COLOR TO BE BLACK VINYL COATED.

plotno: 11/17/2025 2:19:08 PM file: X-BEE-ETSU-PICKLEBALL.DWG

LEGEND	
SYMBOL:	DESCRIPTION:
	METER, PROVIDE AND INSTALL IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
	PANELBOARD, MOUNT TOP 6'-0" AFF OR 4'-0" AFF TO TOP OF BREAKER IN DWELLING UNITS, REFER TO PANELBOARD SCHEDULES FOR REQUIREMENTS. SIDE WITH DESIGNATION IS FRONT UNLESS OTHERWISE NOTED.
	EXISTING PANELBOARD
	HOME RUN TO PANEL WITH CIRCUIT SHOWN, CROSS MARKS INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS WHERE MORE THAN TWO, NOT INCLUDING GROUND, MINIMUM #12 AWG.
	OVERHEAD WIRING
	UNDERGROUND WIRING
	FLUORESCENT OR LED LIGHTING FIXTURE; "A" INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE. "b" CORRESPONDS TO CONTROLLING SWITCH.
	HID, INCANDESCENT, LED, OR COMPACT FLUORESCENT LIGHTING FIXTURE; "A" INDICATES TYPE, REFER TO LIGHTING FIXTURE SCHEDULE. "b" CORRESPONDS TO CONTROLLING SWITCH.
	JUNCTION BOX, SIZE AND USE AS REQUIRED
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING DUPLEX RECEPTACLE MTD. 42" AFF, UNO.
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING DUPLEX RECEPTACLE, MTD 18" AFF, UNO. "U" INDICATES DEVICE WITH USB CHARGING PORT.
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING QUAD RECEPTACLE, TWO GANG BOX, MTD 42" AFF, UNO.
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING QUAD RECEPTACLE, TWO GANG BOX, MTD 18" AFF, UNO.
	HEAVY DUTY FUSED DISCONNECT SWITCH, PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT MFR. USE NEMA CONFIGURATION AS REQUIRED
	SPEAKER
	CLOSED CIRCUIT TV CAMERA ROUGH-IN LOCATION. PROVIDE FLUSH CEILING MOUNTED 4" SQUARE BOX WITH SINGLE GANG DEVICE RING. SUPPORT BOX FROM STRUCTURE ABOVE. PROVIDE BUSHING ON CONDUIT OPENING IN JUNCTION BOX TO AVOID DAMAGING CCTV CABLES FROM SHARP EDGES. CAMERAS AND CABLES BY OTHERS.

ELECTRICAL ABBREVIATIONS	
ABBREVIATIONS	DESCRIPTION:
A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
AFG	ABOVE FINAL GRADE
C	CONDUIT
EM	INDICATES FIXTURE TO BE CONNECTED TO BUILDING EMERGENCY POWER SYSTEM.
F	FUSE
FAR	FUSE AS REQUIRED
G	GROUND
GF	INDICATES RECEPTACLE OR CIRCUIT BREAKER, AS APPLICABLE, TO HAVE GROUND FAULT PROTECTION
MCM	Kcmil (THOUSAND CIRCULAR MILS)
NEC	NATIONAL ELECTRICAL CODE
N	NEUTRAL
PH	PHASE
RM	INDICATES DEVICE/FIXTURE IS EXISTING TO REMAIN
RV	INDICATES DEVICE/FIXTURE TO BE REMOVED
TSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, LEVITON 57777 SERIES OR EQUAL.
UNO	UNLESS NOTED OTHERWISE
VF	VERIFY IN FIELD
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER, TAYMAC MODEL NO. M33200 OR EQUAL.

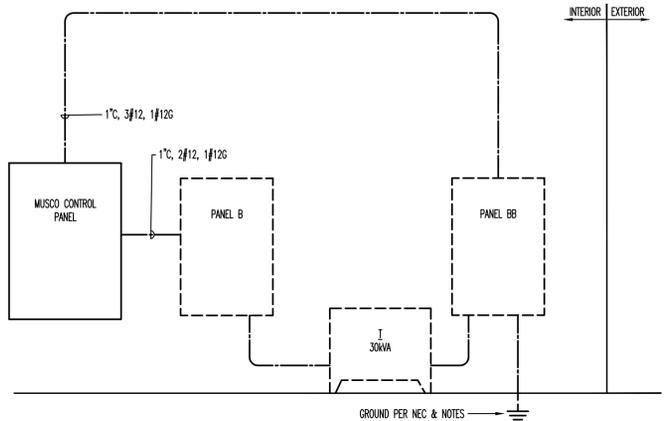
- GENERAL ELECTRICAL NOTES:**
- THE CONTRACTOR SHALL VISIT THE JOB SITE AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AFFECTED BY THIS WORK SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS THAT WILL AFFECT EXECUTION OF THE WORK.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL UTILITY CO. AD TO CONSTRUCTION FEES.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT/APPLICABLE NATIONAL ELECTRICAL CODE, NFPA 70, LOCAL CODES/ORDINANCES AND THE APPLICABLE ACCESSIBILITY CODE. SHOULD PLANS AND CODES CONFLICT, THE CODE TAKES PRECEDENCE. MAKE NO CHANGES, EVEN IN THE CASE OF CONFLICT, WITHOUT FIRST OBTAINING APPROVAL OF THE ARCHITECT/ENGINEER.
 - "PROVIDE" AS USED HERE AND ON THE DRAWINGS, IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO FURNISH, INSTALL, WIRE, AND CONNECT ALL SPECIFIED EQUIPMENT AS WELL AS COMPONENTS, ACCESSORIES, AND MOUNTING HARDWARE TO ENSURE THAT SPECIFIED EQUIPMENT FUNCTIONS TO MEET SYSTEM REQUIREMENTS.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT OTHER FACILITIES AND EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF FACILITIES, EQUIPMENT, OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE COMPLETION OF THIS WORK. ELECTRICAL CONTRACTOR SHALL GIVE ADEQUATE NOTIFICATION TO TENNESSEE ONE CALL, (800) 351-1111, PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
 - PROVIDE SPECIFIED EQUIPMENT, AS NOTED ON DRAWINGS, OR APPROVED EQUAL. ADDITIONAL EQUIPMENT AND MATERIAL MAY BE REQUIRED OTHER THAN THAT SHOWN ON DRAWINGS TO INSTALL THE SPECIFIED EQUIPMENT SUCH AS HANGERS, SUPPORTS, ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED.
 - THE CONTRACTOR SHALL VERIFY THAT THE ACTUAL EQUIPMENT SUPPLIED HAS THE SAME ELECTRICAL SPECIFICATIONS AS THE EQUIPMENT USED AS THE BASIS OF DESIGN. IF THE EQUIPMENT IS DIFFERENT, THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE PANELS AND CIRCUITS AND INCLUDE THEM IN SUBMITTALS.
 - ALL ITEMS SHALL BE NEW, USED EQUIPMENT AND MATERIALS WILL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED TO BE EXISTING OR RELOCATED ON RESPECTIVE PROJECT SITE.
 - ALL MATERIALS SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORY, INC.
 - THE CONTRACTOR IS DIRECTED TO VERIFY THE SERVICE ARRANGEMENT WITH THE LOCAL ELECTRIC UTILITY BEFORE ORDERING EQUIPMENT. DESIGN IS BASED ON A 208Y/120 VOLT, THREE PHASE, FOUR WIRE, SOLIDLY GROUNDED WYE SERVICE. THIS DESIGN ASSUMES AN UNDERGROUND SERVICE WITH SERVICE CONDUITS AND CONDUCTORS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL PRIMARY CONDUITS AND CONCRETE TRANSFORMER PAD AS SPECIFIED BY THE LOCAL ELECTRIC UTILITY.
 - UNLESS OTHERWISE INSTRUCTED, THE CONTRACTOR SHALL SUBMIT A DIGITAL (PDF) COPY OF ELECTRICAL SHOP DRAWINGS TO THE PROJECT MANAGER WHO SHALL RELAY THEM TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF EQUIPMENT. THE SUBMITTAL SHALL INCLUDE LIGHTING FIXTURES, SWITCHGEAR, GENERATOR AND FIRE ALARM EQUIPMENT, WHEN INCLUDED IN THE PROJECT. OPERATION AND MAINTENANCE MANUALS FOR ALL ELECTRICAL EQUIPMENT SHALL BE COMPILED AND SUBMITTED IN DIGITAL (PDF) TO THE BUILDING OWNER UPON PROJECT COMPLETION.
 - ALL WIRES SHALL BE TERMINATED AND LABELED. ALL JUNCTION BOXES SHALL BE LABELED TO INDICATE THE CIRCUITS CONTAINED IN THE BOX.
 - PROVIDE A NEW TYPEWRITTEN PANEL SCHEDULE IN ALL NEW PANELS AND UPDATE THE DIRECTORY WITH ANY CIRCUIT MODIFICATIONS. BREAKERS SHALL BE LABELED TO IDENTIFY THE LOCATION AND TYPE OF DEVICES/EQUIPMENT, ETC. SERVED BY THE RESPECTIVE BREAKER. LABEL ALL PANELBOARDS/SWITCHGEAR INDICATING LOCATION OF BREAKER SERVING PANEL IN ACCORDANCE WITH N.E.C.
 - ALL FEEDERS #4 AND LARGER SHALL BE MESSEGE TESTED AFTER INSTALLATION.
 - UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE COPPER AND #12 AWG MINIMUM WITH THIN/THIN, 600 VOLT INSULATION.
 - PROVIDE A DEDICATED NEUTRAL, COLOR CODED, FOR EACH UNGROUNDED CONDUCTOR. SHARING OF NEUTRALS IS PROHIBITED.
 - DO NOT INSTALL MORE THAN THREE CIRCUITS (SIX CURRENT CARRYING CONDUCTORS) IN A CONDUIT.
 - THE MINIMUM CONDUIT SIZE SHALL BE 1/2". INTERIOR CONDUITS SHALL BE EMT; UNDERGROUND CONDUIT AND CONCRETE ENCASED CONDUIT SHALL BE SCHEDULE 40 PVC. EXTERIOR EXPOSED CONDUIT SHALL BE SCHEDULE 80 PVC, UNLESS NOTED OTHERWISE.
 - MC CABLE MAY BE USED FOR CONCEALED BRANCH CIRCUIT WIRING IN INTERIOR DRY LOCATIONS.
 - A GREEN COPPER GROUND WIRE SHALL BE INSTALLED IN ALL CONDUIT SYSTEMS AND SHALL BE BONDED TO ALL ENCLOSURES, BOXES, AND EQUIPMENT.
 - BONDING JUMPERS SHALL BE USED TO BOND CONDUIT TO ENCLOSURES, BOXES, AND EQUIPMENT WHERE KNOCKOUTS ARE USED.
 - ALL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE.
 - THE CONTRACTOR SHALL PROVIDE FIRESTOPPING OF ALL RATED PENETRATIONS PER DETAILS. ELECTRICAL BOXES INSTALLED ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL HAVE A TWO FOOT MINIMUM HORIZONTAL SEPARATION.
 - THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY POWER AND LIGHT, EQUIVALENT TO ONE 150-WATT INCANDESCENT LAMP PER 200 SQ. FT.
 - THE CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION.

- LIGHTING NOTES:**
- CONTRACTOR SHALL FURNISH AND INSTALL LIGHT SWITCHES/CONTROLS FOR ALL LIGHTING AT LOCATIONS AS SHOWN ON THE DRAWINGS.
 - CONFIRM EXACT LIGHT FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - CONNECT ALL EXIT AND EMERGENCY LIGHTS TO UNSWITCHED LIGHTING CIRCUITS. UNITS SHALL OPERATE AUTOMATICALLY UPON LOSS OF POWER.
 - PRIOR TO ORDERING THE SPECIFIED LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE FIXTURE IS SUITABLE FOR THE CEILING TYPE. FOR EXAMPLE, A FIRE RATED FIXTURE SHALL BE INSTALLED IN A FIRE RATED ASSEMBLY. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.

- POWER NOTES:**
- CONTRACTOR SHALL FURNISH AND INSTALL FUSED DISCONNECTS FOR ALL HVAC EQUIPMENT WITH FUSES AS PER MANUFACTURER RECOMMENDATIONS, AMPACITY, POLES, AND TYPE NEMA ENCLOSURE OF DISCONNECT SWITCHES AS REQUIRED. FURNISH AND INSTALL A WEATHERPROOF, GFCI DUPLEX RECEPTACLE OUTLET WITHIN 25 FEET OF EACH HVAC PIECE OF EQUIPMENT.
 - MOUNT ALL SWITCHES AND OTHER ELECTRICAL EQUIPMENT IN COMPLIANCE WITH APPLICABLE PROVISIONS OF THE APPLICABLE ACCESSIBILITY CODE.
 - ALL RESTROOM, EXTERIOR, COUNTER TOP, AND ROOF TOP HVAC SERVICE RECEPTACLES SHALL BE GFCI.
 - ALL EXTERIOR RECEPTACLES SHALL HAVE APPROVED WEATHERPROOF COVERS AS PER NEC 406.8 (B).
 - ALL DAMP AND WET LOCATION DEVICES SHALL BE WEATHER RESISTANT.
 - ALL 125V AND 250V, 15 AMP AND 20 AMP RECEPTACLES SHALL BE TAMPER RESISTANT TYPE IN ACCORDANCE WITH NEC 406.12 WHERE REQUIRED. THIS INCLUDES (BUT NOT LIMITED TO) IN OR OUTSIDE OF DWELLING UNITS; COMMON AREAS OF MULTI-FAMILY DWELLING UNITS; DORM ROOMS, GUEST ROOMS, AND COMMON AREAS OF HOTELS; CHILDCARE, DAYCARE, AND K-12 EDUCATION FACILITIES; PATIENT CARE, COMMON AREAS, AND CORRIDORS OF MEDICAL FACILITIES; ASSEMBLY OCCUPANCIES CORRIDORS. SEE NEC 406.12 FOR MORE INFORMATION.
 - ALL EXTERIOR 125V, 15 AMP AND 20 AMP RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE WET LOCATION RATED WITH APPROPRIATE WEATHER-PROOF COVERS IN ACCORDANCE WITH NEC 406.12.

PANEL: BB		VOLTAGE: 277/480		PHASE: 3		WIRE: 4		BUS: CU		
BUS RATING: 125 AMP		MAIN: NO - MLO		AC: EXISTIN		ENCLOSURE: NEMA 1		MOUNTING: SURFACE		
LUGS/PHASE: #2		ENTRY: BOTTOM		AC: EXISTIN		ENCLOSURE: NEMA 1		MOUNTING: SURFACE		
#	AMP (POLE)	DESCRIPTION	LOAD	A	B	C	LOAD	DESCRIPTION	(POLE) AMP #	
1	20E	1	LIGHTS - LOCKER ROOM (ELD)	2,200.0	6,340.0	-	-	4,140.0	PANEL B (VIA TRANSFORMER) (ELD)	3 45E 2
3	20E	1	LIGHTS - LOCKER ROOM (ELD)	3,800.0	-	7,640.0	3,840.0	-	-	1 4
5	20E	1	LIGHTS - LOCKER ROOM (ELD)	3,800.0	-	-	7,340.0	3,540.0	-	1 8
7	1	1	PROVISIONAL SPACE	0.0	1,000.0	-	-	1,000.0	EXHAUST FAN 7 (ELD)	3 15E 8
9	20E	1	SPARE	0.0	-	1,000.0	1,000.0	-	-	1 10
11	20E	1	SPARE	0.0	-	-	1,000.0	1,000.0	-	1 12
13	50E	3	PUMP MOTOR - POOL (ELD)	6,100.0	7,100.0	-	-	1,000.0	HAULS (ELD)	3 20E 14
15	1	1	SPARE	6,100.0	-	7,100.0	-	1,000.0	-	1 16
17	1	1	SPARE	6,100.0	-	-	7,100.0	1,000.0	-	1 18
19	20N	3	PICKLEBALL LTS - MUSCO PANEL (NLD)	2,016.0	3,916.0	-	-	1,800.0	PATO LIGHTS	1 20E 20
21	1	1	SPARE	2,016.0	-	3,916.0	-	1,800.0	PATO LIGHTS	1 20E 22
23	1	1	SPARE	2,016.0	-	-	2,016.0	0.0	SPARE	1 20E 24
25	1	1	PROVISIONAL SPACE	0.0	0.0	-	-	0.0	PROVISIONAL SPACE	1 20E 26
27	1	1	PROVISIONAL SPACE	0.0	-	0.0	-	0.0	PROVISIONAL SPACE	1 20E 28
29	1	1	PROVISIONAL SPACE	0.0	-	-	0.0	0.0	PROVISIONAL SPACE	1 20E 30
THIS PANEL IS EXISTING TO REMAIN. SIEMENS TYP S2 WITH TYPE B0D BRANCH BREAKERS		TOTAL		18,256.0	19,656.0	17,456.0	VA	*E - INDICATES EXISTING BREAKER TO REMAIN *ELD - INDICATES EXISTING LOAD TO REMAIN *N - INDICATES NEW BREAKER *NLD - INDICATES NEW LOAD *GF - INDICATES GROUND-FAULT TYPE BREAKER		
TOTAL CONNECTED							55,368.0	VA		

PANEL: B		VOLTAGE: 120/208		PHASE: 3		WIRE: 4		BUS: CU		
BUS RATING: 100 AMP		MAIN: YES - 100A/3P		AC: EXISTIN		ENCLOSURE: NEMA 1		MOUNTING: SURFACE		
LUGS/PHASE: #3		ENTRY: BOTTOM		AC: EXISTIN		ENCLOSURE: NEMA 1		MOUNTING: SURFACE		
#	AMP (POLE)	DESCRIPTION	LOAD	A	B	C	LOAD	DESCRIPTION	(POLE) AMP #	
1	20E	1	RECEPTS - POOL (ELD)	800.0	1,600.0	-	-	800.0	RECEPTS - DECK EQUIP (ELD)	1 20E 2
3	20E	1	RECEPTS - POOL OFFICE (ELD)	800.0	-	1,600.0	-	800.0	RECEPT CHEM STO & EQUIP (ELD)	1 20E 4
5	20E	1	COURT YARD (ELD)	720.0	-	-	1,440.0	720.0	COURT YARD (ELD)	1 20E 6
7	20E	1	COURT YARD (ELD)	720.0	1,440.0	-	-	720.0	COURT YARD (ELD)	1 20E 8
9	20E	1	COURT YARD (ELD)	720.0	-	-	1,440.0	720.0	COURT YARD (ELD)	1 20E 10
11	20E	1	CONTROL CAB JCI (ELD)	400.0	-	-	1,300.0	900.0	EXHAUST FAN 5 (ELD)	1 20E 12
13	20E	1	MUSCO CONTROLS (NLD)	400.0	1,100.0	-	-	700.0	EXHAUST FAN 8 (ELD)	1 20E 14
15	20E	1	SPARE	0.0	-	800.0	-	800.0	POOL EQUIP (ELD)	1 20E 16
17	20E	1	SPARE	0.0	-	-	800.0	800.0	POOL EQUIP (ELD)	1 20E 18
19	20E	1	SPARE	0.0	0.0	-	-	0.0	SPARE	3 20E 20
21	35E	2	SPARE	0.0	-	0.0	-	0.0	-	1 22
23	1	1	SPARE	0.0	-	-	0.0	0.0	-	1 24
25	60E	3	SPARE	0.0	0.0	-	-	0.0	PROVISIONAL SPACE	1 20E 26
27	1	1	SPARE	0.0	-	0.0	-	0.0	PROVISIONAL SPACE	1 20E 28
29	1	1	SPARE	0.0	-	-	0.0	0.0	PROVISIONAL SPACE	1 20E 30
THIS PANEL IS EXISTING TO REMAIN. SIEMENS TYPE S1 WITH TYPE BL BREAKERS.		TOTAL		4,140.0	3,840.0	3,540.0	VA	*E - INDICATES EXISTING BREAKER TO REMAIN *ELD - INDICATES EXISTING LOAD TO REMAIN *N - INDICATES NEW BREAKER *NLD - INDICATES NEW LOAD *GF - INDICATES GROUND-FAULT TYPE BREAKER		
TOTAL CONNECTED							11,520.0	VA		



RISER DIAGRAM
NO SCALE

- ELECTRICAL RISER DIAGRAM NOTES**
- THIS SERVICE HAS BEEN DESIGNED FOR 480Y/277 VOLT, THREE PHASE, FOUR WIRE, SOLIDLY GROUNDED WYE.
 - CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE SYSTEMS AND CONDUCTORS PER NEC 250.50 AT A MINIMUM AND ADDITIONAL REQUIREMENTS AS SHOWN ON THE RISER DIAGRAM.
 - CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR(S) TO ALL METALLIC PIPING SYSTEM(S) AND BOND AS PER NEC 250.52 (A)(1).
 - CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE CONDUCTOR TO METAL BUILDING FRAME AND BOND PER NEC 250.52 (A)(2).
 - CONTRACTOR SHALL PROVIDE CONCRETE ENCASED ELECTRODE IN BUILDING FOUNDATION AND BOND PER NEC 250.52 (A)(3).
 - CONTRACTOR SHALL PROVIDE GROUNDING ELECTRODE RODS (3/4" BY 10' COPPER) AND BOND PER NEC 250.52 (A)(5)(b).
 - GROUND ALL DRY TYPE TRANSFORMERS IN ACCORDANCE WITH NEC, 250.30.
 - ALL UNDERGROUND AND ENCASED CONNECTIONS SHALL BE EXOTHERMIC. EXPOSED CONNECTIONS MAY BE COMPRESSION TYPE.
 - ALL COMPONENTS SHALL BE COPPER UNLESS NOTED OTHERWISE.



**FACILITY
SYSTEMS
CONSULTANTS, LLC**
713 S. Central Street
Suite 101
Knoxville, Tennessee 37902
ph: (865) 246-0164
fx: (865) 246-1084

This drawing and the design shown are the property of Facility System Consultants, LLC, and are not to be reproduced, copied, published or used in whole or in part without written consent. They are to be used only for the project and site identified and shall be returned upon request.



Revisions:

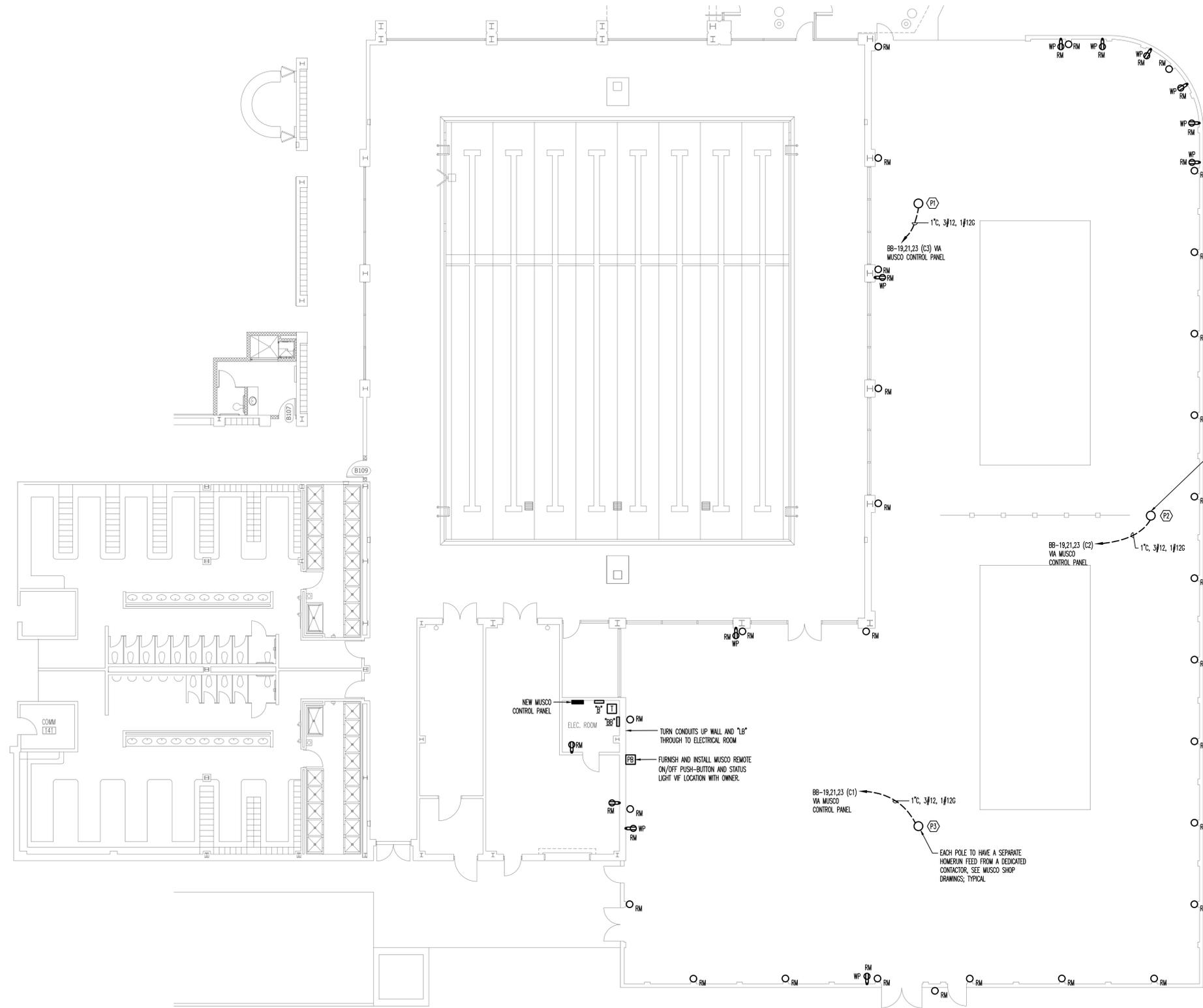
ETSU PICKLEBALL COURTS - BASLER CENTER FOR PHYSICAL ACTIVITY
1244 JACK VEST DRIVE, JOHNSON CITY, TN 37614
EAST TENNESSEE STATE UNIVERSITY
JOHNSON CITY, TENNESSEE
SBC PROJECT NUMBER: 369/000-01-2021E

Job No: ETS508
Date: 11/19/2025
Designed by: NAB
Drawn by: KLS

Sheet Title:
LEGENDS AND
SCHEDULES

Scale: AS NOTED

SHEET
E0.1



SITE LIGHTING AND POWER PLAN
SCALE: 1"=10'



FACILITY SYSTEMS CONSULTANTS, LLC
713 S. Central Street
Suite 101
Knoxville, Tennessee 37902
ph: (865) 246-0164
fx: (865) 246-1084

This drawing and the design shown are the property of Facility System Consultants, LLC, and are not to be reproduced, copied, published or used in whole or in part without written consent. They are to be used only for the project and site identified and shall be returned upon request.



Revisions:

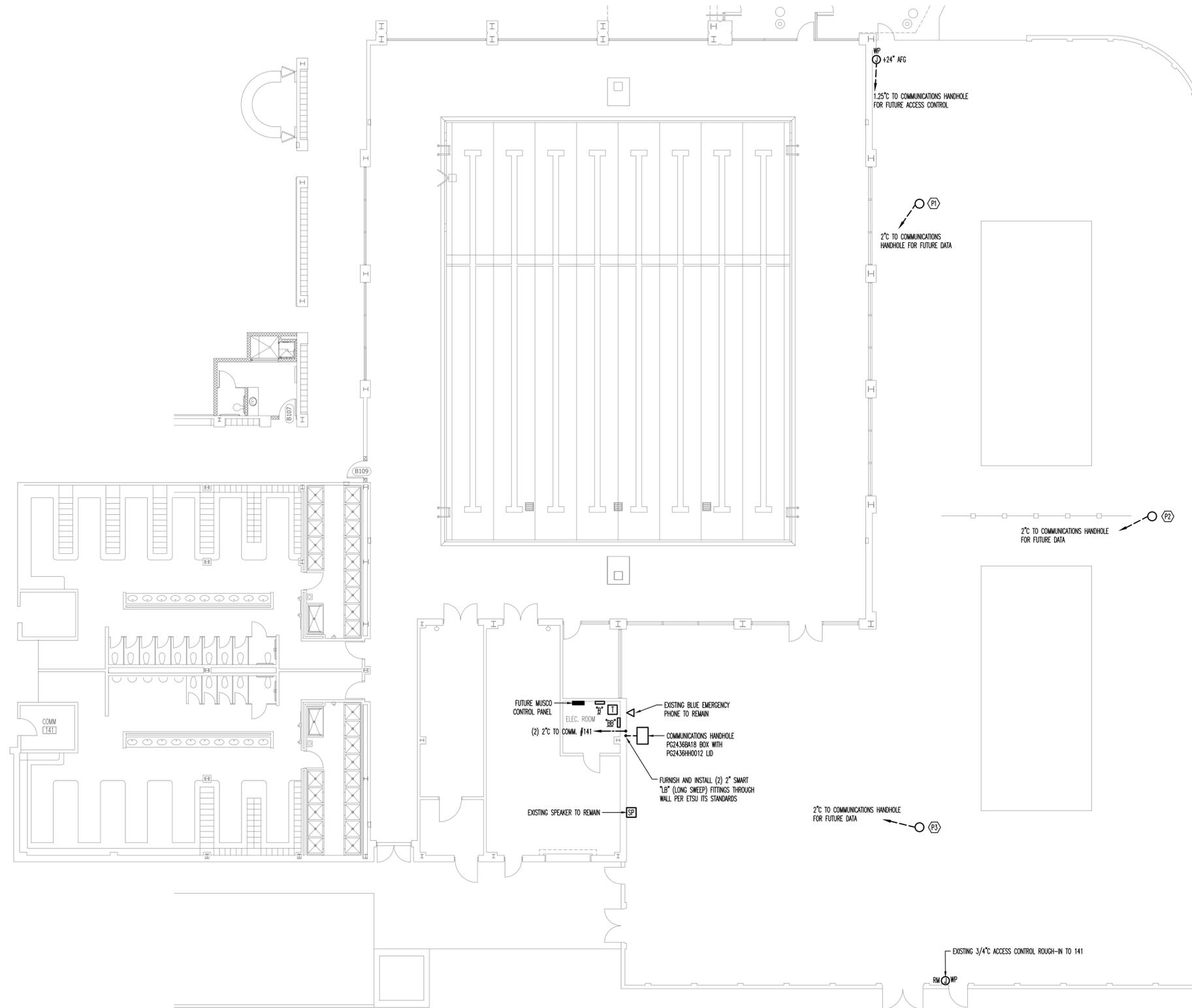
ETSU PICKLEBALL COURTS - BASLER CENTER FOR PHYSICAL ACTIVITY
1244 JACK VEST DRIVE, JOHNSON CITY, TN 37614
EAST TENNESSEE STATE UNIVERSITY
JOHNSON CITY, TENNESSEE
SBC PROJECT NUMBER: 369/000-01-2021E

Job No: ETS508
Date: 11/19/2025
Designed by: NAB
Drawn by: KLS

Sheet Title:
SITE LIGHTING AND POWER PLAN

Scale: AS NOTED

SHEET
E1.1

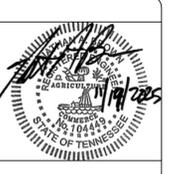


SITE COMMUNICATION PLAN
SCALE: 1"=10'



FACILITY SYSTEMS CONSULTANTS, LLC
713 S. Central Street
Suite 101
Knoxville, Tennessee 37902
ph: (865) 246-0164
fx: (865) 246-1084

This drawing and the design shown are the property of Facility System Consultants, LLC, and are not to be reproduced, copied, published or used in whole or in part without written consent. They are to be used only for the project and site identified and shall be returned upon request.



Revisions:

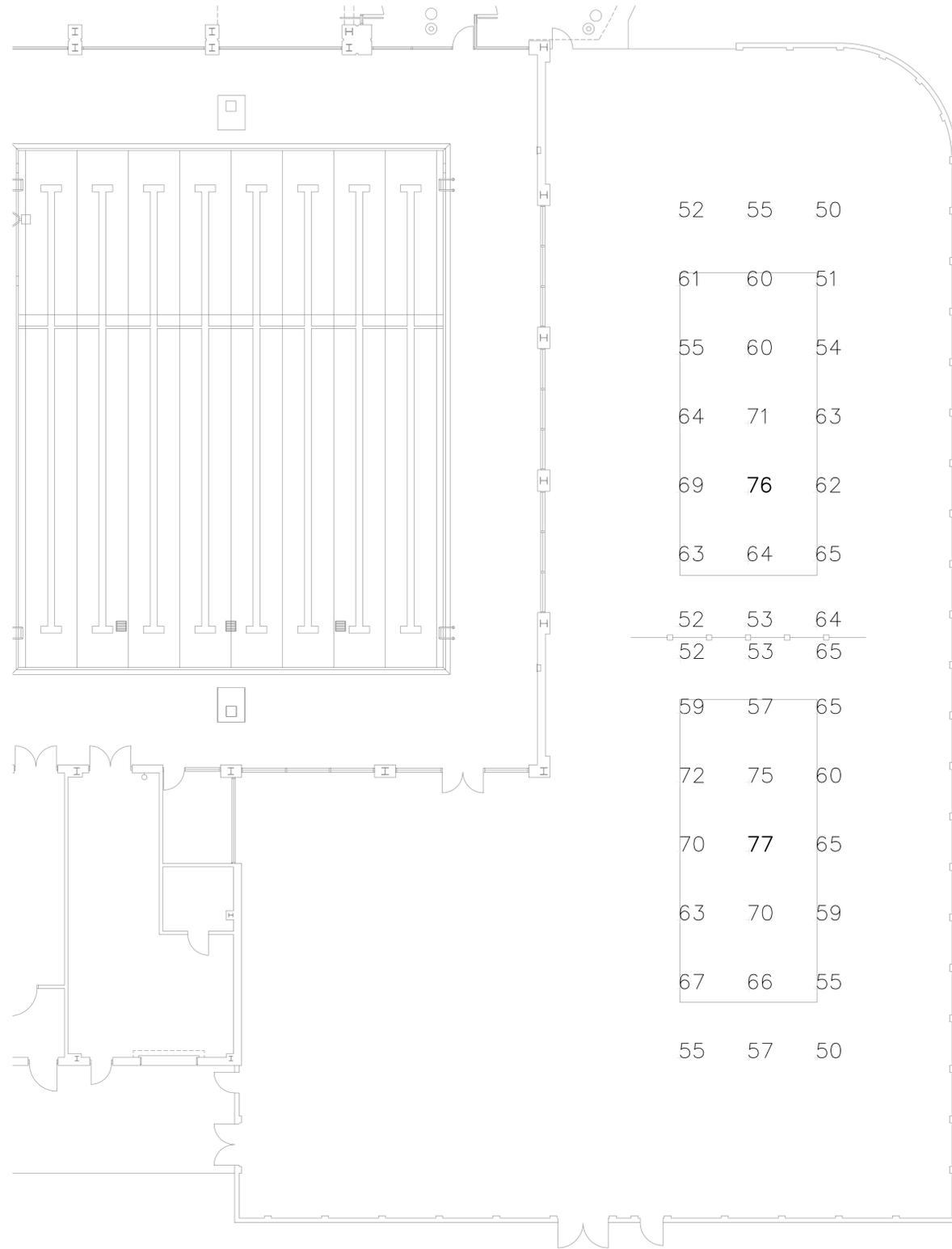
ETSU PICKLEBALL COURTS - BASLER CENTER FOR PHYSICAL ACTIVITY
1244 JACK VEST DRIVE, JOHNSON CITY, TN 37614
EAST TENNESSEE STATE UNIVERSITY
JOHNSON CITY, TENNESSEE
SBC PROJECT NUMBER: 369/000-01-2021E

Job No: ETS508
Date: 11/19/2025
Designed by: NAB
Drawn by: KLS

Sheet Title:
SITE COMMUNICATION PLAN

Scale: AS NOTED

SHEET
E1.2



SITE PHOTOMETRICS PLAN
SCALE: 1"=10'

ETSU Pickleball

Johnson City, TN

Grid Summary	
Name:	Pickleball
Size:	30' x 64'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary: Court 1	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	60.16
Maximum:	76
Minimum:	50
Avg/Min:	1.20
Guaranteed Max/Min:	2.5
Max/Min:	1.50
UG (adjacent pts):	1.22
CU:	0.26
No. of Points:	21
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	8
Total Load:	4.32 kW

Illumination Summary: Court 2	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	62.34
Maximum:	77
Minimum:	50
Avg/Min:	1.26
Guaranteed Max/Min:	2
Max/Min:	1.54
UG (adjacent pts):	1.31
CU:	0.27
No. of Points:	21
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	8
Total Load:	4.32 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume \pm 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



FACILITY SYSTEMS CONSULTANTS, LLC
713 S. Central Street
Suite 101
Knoxville, Tennessee 37902
ph: (865) 246-0164
fx: (865) 246-1084

This drawing and the design shown are the property of Facility System Consultants, LLC, and are not to be reproduced, copied, published or used in whole or in part without written consent. They are to be used only for the project and site identified and shall be returned upon request.



Revisions:

ETSU PICKLEBALL COURTS - BASLER CENTER FOR PHYSICAL ACTIVITY
1244 JACK VEST DRIVE, JOHNSON CITY, TN 37614
EAST TENNESSEE STATE UNIVERSITY
JOHNSON CITY, TENNESSEE
SBC PROJECT NUMBER: 369/000-01-2021E

Job No: ETS508
Date: 11/19/2025
Designed by: NAB
Drawn by: KLS

Sheet Title:
SITE PHOTOMETRICS
PLAN

Scale: AS NOTED

SHEET
E1.3