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Project: 1/9/2026 4:00:07 PM
Drawn By: C. NELSON
Tighe & Bond - Address: 001_24-228 Dover HS Athletics Buildings - MEP R25.rvt

GENERAL SYMBOLS

BOLD LINES AND TEXT INDICATE PROPOSED WORK

LIGHT LINES AND ITALIZED TEXT INDICATE
APPROXIMATE EXISTING CONDITIONS

SECTION

PHOTOGRAPH LOCATION

EQUIPMENT, STRUCTURES, PIPING AND/OR
CONDUIT TO BE DEMOLISHED.

RACEWAYS AND WIRING

L4A1-1,3 HOMERUN TO EQUIPMENT. "L4A1" INDICATES EQUIPMENT ID, "1,3" INDICATES
L4A1-1,3 PANELBOARD CIRCUIT NUMBERS, (20A, 1P, UNLESS INDICATED OTHERWISE)
2#12,#12G, IN 3/4"C IF NOT INDICATED OR SCHEDULED OTHERWISE. DASHED
2#10,#10G,3/4"C SEE DRAWINGS FOR QUANTITY AND SIZE OF WIRE AND CONDUIT. MINIMUM
LINES INDICATE IN OR UNDER SLAB.

CONDUIT, CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN
UNFINISHED AREAS

UNDERGROUND CONDUIT (SHADING INDICATES CONCRETE ENCASED)

OVERHEAD ELECTRICAL WIRE

CONDUIT IN OR UNDER SLAB

CONDUIT TURNING UP

CONDUIT TURNING DOWN

NOTES:

- GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN
EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
- HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE (3)
PHASE CONDUCTORS (ONE PER PHASE), (3) NEUTRALS AND (3) GROUND
CONDUCTORS IN EACH CONDUIT. DERATE CONDUCTORS AS REQUIRED PER
CODE.

FEEDER TAG - REFER TO LEGEND OR TABLE OF FEEDER SIZES

BRANCH CIRCUIT WIRING NOTES

- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL
CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS
INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE FURNISHED WITH WIRING AND CONDUIT AS
REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS
THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT
WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY
CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND
GROUND CONDUCTORS.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS AND GROUNDS.
BRANCH CIRCUITS SHALL NOT SHARE NEUTRALS OR GROUNDS.

LIGHTING FIXTURES

NUMBERS/LETTERS SHOWN BESIDE LIGHT FIXTURES SHALL INDICATE THE FOLLOWING:
"F1" (CAPITAL LETTER(S) OR COMBINATION OF CAPITAL LETTER(S) AND NUMBERS)
INDICATES FIXTURE TYPE.
"2" (NUMBER OR PANELBOARD NAME AND NUMBER) INDICATES CIRCUIT NUMBER.
"a" (LOWERCASE LETTER) INDICATES SWITCH CONTROL OF FIXTURE.
"E" INDICATES FIXTURE IS WIRED TO EMERGENCY SYSTEM.
"NL" INDICATES FIXTURE IS WIRED AS A NIGHT LIGHT (ALWAYS ON).
"PC" INDICATES FIXTURE IS FURNISHED WITH PHOTOCELL CONTROL.
"MS" INDICATES FIXTURE IS FURNISHED WITH MOTION SENSOR.
"X#" INDICATES HAZARDOUS LOCATION, NUMBER INDICATES SPECIFIC TYPE.

LIGHTING FIXTURE, SURFACE, RECESSED OR PENDANT MOUNTED.

LIGHTING FIXTURE SURFACE, RECESSED OR PENDANT MOUNTED. WIRED
TO THE EMERGENCY (LIFE SAFETY) SYSTEM

FLUORESCENT BARE LAMP STRIP OR INDUSTRIAL STRIP

HID OR COMPACT FLUORESCENT PENDANT OR SURFACE MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE - WIRED TO THE EMERGENCY LIFE SAFETY SYSTEM

CEILING MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

EMERGENCY BATTERY UNIT

REMOTE EMERGENCY LIGHT HEAD

ARROW INDICATES TYPICAL LIGHTING FIXTURES IN CONTINUOUS
ROW. FURNISH AND INSTALL ALL CORNERS, ENDCAPS, EXTENSIONS
AND FITTINGS AS REQUIRED FOR A COMPLETE INSTALLATION

POLE MOUNTED SITE LIGHTING FIXTURE

BOLLARD STYLE SITE LIGHTING FIXTURE

FLOOD LIGHT - WALL MOUNTED

FLOOD LIGHT - POLE MOUNTED

RECEPTACLES

MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.

NUMBERS/LETTERS SHOWN BESIDE RECEPTACLES SHALL INDICATED THE
FOLLOWING:

"GFI" INDICATES GROUND FAULT PROTECTED CIRCUIT.
"2" (NUMBER OR PANELBOARD NAME AND NUMBER) INDICATES POWER

SIMPLEX RECEPTACLE

DUPLEX RECEPTACLE

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP.

DUPLEX RECEPTACLE, ENERGY CONTROLLED

GFI DUPLEX RECEPTACLE

GFI COUNTER TOP DUPLEX RECEPTACLE

DOUBLE DUPLEX RECEPTACLE

DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP.

DOUBLE DUPLEX ENERGY CONTROLLED RECEPTACLE

SPECIAL PURPOSE RECEPTACLE, NEMA L5-20 INDICATES TYP.

WELD STATION SPECIAL PURPOSE RECEPTACLE

TOGGLE SWITCHES

MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.
SINGLE POLE TOGGLE SWITCH. "a" INDICATES FIXTURE CONTROL

DOUBLE POLE, DOUBLE THROW CENTER OFF TOGGLE SWITCH.

THREE WAY TOGGLE SWITCH

FOUR WAY TOGGLE SWITCH

KEY OPERATED SWITCH

SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

FAN SWITCH

OCCUPANCY SENSOR LIGHTING CONTROL

MOTOR RATED TOGGLE SWITCH (LOCKABLE)

LOW VOLTAGE SWITCH

POWER DISTRIBUTION EQUIPMENT

PANELBOARD, SURFACE MOUNTED

MOTOR, "2" INDICATES HORSEPOWER

MAGNETIC MOTOR STARTER

2-SPEED STARTER

NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED.
"6P" INDICATES 6 POLE.

FUSED DISCONNECT SWITCH. THE DISCONNECT SWITCH RATING
SHALL MEET OR EXCEED THE CIRCUIT AMPACITY. "30A" INDICATES
FUSE SIZE. FUSE SHALL BE SIZED FOR THE FULL RATING OF THE
DISCONNECT SWITCH UNLESS SHOWN OTHERWISE.

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT
SWITCH. SIZE OF STARTER, SWITCH, AND FUSE AS REQUIRED.

DRY-TYPE DISTRIBUTION TRANSFORMER

UTILITY POLE

MEDIUM VOLTAGE DISTRIBUTION EQUIPMENT

DISCONNECT SWITCH NON-FUSED
NON LOAD-BREAK

DISCONNECT SWITCH FUSED LOAD-BREAK

LIGHTNING ARRESTER

GROUND

TRANSFORMER

a = DEVICE ID

b = KVA RATING

c = NUMBER PHASES

d = PRIMARY VOLTAGE

e = SECONDARY VOLTAGE

f,g = CONNECTION TYPE SYMBOL

h = IMPEDANCE

FOUR POINT JUNCTION

200A LOAD BREAK ELBOW

ELBOW

SEPARABLE TEE

IN-LINE JUNCTION

SECURITY SYSTEM

OUTDOOR/INDOOR FIXED COLOR IP CCTV CAMERA W/HOUSING,
POWER OVER ETHERNET.
PTZ = PAN, TILT, ZOOM

COMMUNICATIONS

DATA/COMPUTER OUTLET

MISCELLANEOUS

JUNCTION BOX, SIZED PER NEC

JUNCTION BOX WITH SINGLE POINT ELECTRICAL
CONNECTION TO EQUIPMENT.

START/STOP PUSHBUTTON STATION

PULLBOX

MANHOLE

HANDHOLE

PUSH BUTTON OPERATOR

ELECTRICAL PANELBOARD KEY

NUMBER IN SEQUENTIAL ORDER.
VOLTAGE (2) 208, (4) 480
(C) CONCESSIONS, (F) FACILITIES, (S) STORAGE
PANEL TYPE (DP) DISTRIBUTION PANEL
(L) LIGHTING PANEL
(P) POWER PANEL
(OS) OPTIONAL STANDBY
(E) EMERGENCY

CIRCUIT BREAKER TRIP UNIT DESIGNATIONS

ARMS ARC FLASH REDUCTION TECHNOLOGY
G ADJUSTABLE GROUND FAULT PICKUP AND DELAY
GFA ADJUSTABLE GROUND FAULT ALARM
I ADJUSTABLE INSTANTANEOUS PICKUP
L ADJUSTABLE LONG TIME PICKUP AND DELAY
S ADJUSTABLE SHORT TIME PICKUP AND DELAY

AREA CLASSIFICATIONS

DAMP LOCATION
INDICATES THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT
INSTALLED IN THE ROOM OR DEMARCATED AREA SHALL BE
NEMA 12 CONSTRUCTION SUITABLE FOR USE IN A DAMP
LOCATION (UNLESS NOTED OTHERWISE).

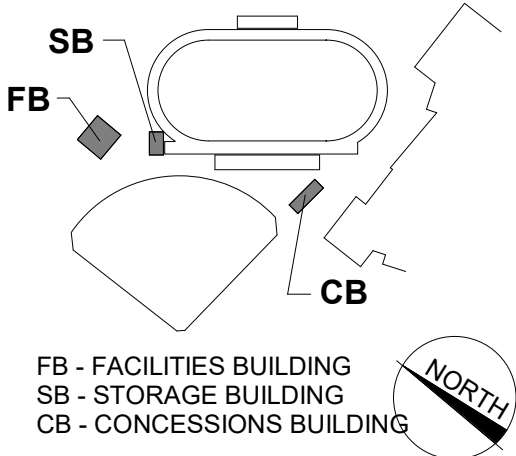
WET LOCATION
INDICATES THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT
INSTALLED IN THE ROOM OR DEMARCATED AREA SHALL BE OF
WATERTIGHT OR NEMA 4 CONSTRUCTION SUITABLE FOR USE IN
A WET LOCATION

DRY LOCATION
INDICATES THAT ALL ELECTRICAL MATERIALS AND
EQUIPMENT INSTALLED IN THE ROOM OR DEMARCATED
AREA MAY BE NEMA 1 CONSTRUCTION SUITABLE FOR USE
IN A DRY LOCATION (UNLESS NOTED OTHERWISE).

ABBREVIATIONS

#	WIRE SIZE OR IDENTIFICATION NUMBER	PT	POTENTIAL TRANSFORMER
A	AMPERES	PVC	POLYVINYL CHLORIDE
AF	AMPERE FRAME (CIRCUIT BREAKER RATING)	R	RECESSED
AFF	ABOVE FINISHED FLOOR	RGS	RIGID GALVANIZED STEEL CONDUIT
AFG	ABOVE FINISHED GRADE	RVNR	REDUCED-VOLTAGE NON-REVERSING
AIC	AMPERE INTERRUPTING CAPACITY	S	SURFACE
AL	ALUMINUM	SCCR, SCR	SHORT CIRCUIT CURRENT INTERRUPTING RATING
ARCH	ARCHITECT	SCH 40	SCHEDULE 40 PVC CONDUIT
AS	AMPERE SENSOR (CIRCUIT BREAKER RATING)	SP	SPARE
AT	AMPERE TRIP (CIRCUIT BREAKER RATING)	SPD	SURGE PROTECTION DEVICE
ATS	AUTOMATIC TRANSFER SWITCH	SS	STAINLESS STEEL
AWG	AMERICAN WIRE GAUGE	SW	SWITCH
BLDG	BUILDING	TEL	TELEPHONE
C	CONDUIT	TSP	TWISTED SHIELDED PAIR CABLE
CB	CIRCUIT BREAKER	TYP	TYPICAL
CT	CURRENT TRANSFORMER	UG	UNDERGROUND
CAT	CATALOG	UPS	UNINTERRUPTABLE POWER SUPPLY
CIR, CKT	CIRCUIT	V	VOLT
CP	CONTROL PANEL	VFD	VARIABLE FREQUENCY DRIVE (ALSO REFERED TO AS ADJUSTABLE FREQUENCY DRIVE)
CPT	CONTROL POWER TRANSFORMER 480 VOLTS - 120/240 VOLTS, UNLESS OTHERWISE INDICATED	Y	WYE
COL	COLUMN	W	WATT, WIRE
Δ	DELTA	WP	WEATHERPROOF
CU	COPPER	XFMR	TRANSFORMER
DISC SW, DS	DISCONNECT SWITCH		
DWG	DRAWING		
E	WIRED ON EMERGENCY CIRCUIT		
EC	ELECTRICAL CONTRACTOR		
EM	EMERGENCY		
EXP	EXPLOSION PROOF		
F	FLUSH		
FU	FUSE		
FT	FEET		
FVNR	FULL VOLTAGE NON-REVERSING		
FVR	FULL VOLTAGE REVERSING		
G	GROUND		
GC	GENERAL CONTRACTOR		
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
ID	IDENTIFICATION		
KCMIL, MCM	ONE THOUSAND CIRCULAR MILS		
KVA	KILOVOLT-AMPERES		
KVAR	KILOVOLT-AMPERES REACTIVE		
KW	KILOWATTS		
LSIG	LONG/SHORT TIME, INSTANTANEOUS AND GROUND FAULT SETTINGS (FOR CIRCUIT BREAKER)		
MC	MECHANICAL CONTRACTOR		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MISC	MISCELLANEOUS		
MFR	MANUFACTURER		
MLO	MAIN LUGS ONLY		
NC, NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRICAL CODE		
NIC	NOT IN CONTRACT		
NL	NIGHT LIGHT		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OL	OVERLOAD		
P	POLE		
PH, Ø	PHASE		
PLC	PROGRAMMABLE LOGIC CONTROLLER		
PVC	POLYVINYL CHLORIDE		

Tighe & Bond



EDUCATION REVIEW - BUILDING PERMIT SET

THIS DOCUMENT IS RELEASED
TEMPORARILY FOR PROGRESS REVIEW
ONLY. IT IS NOT INTENDED FOR BIDDING
OR CONSTRUCTION PURPOSES.

Dover High School Athletic Facility Project

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-E-001	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

ELECTRICAL LEGEND

SCALE: NO SCALE

E-001

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School: 01-19-2026 4:00:07 PM
Dover High School
24-228 Dover HS Athletics Buildings_MEP R25.rvt

GENERAL DEMOLITION NOTES:

- DISCONNECT AND REMOVE EXISTING ELECTRICAL PANELBOARDS, JUNCTION BOXES, BRANCH CIRCUITS, FEEDERS, RACEWAYS, DEVICES, ETC., AS REQUIRED TO ACCOMPLISH THE NEW WORK AS SHOWN OR REASONABLY IMPLIED. REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL WORK SHOWN ON THE OTHER DRAWINGS OF THIS SET TO DETERMINE THE EXTENT OF THE DEMOLITION WORK REQUIRED.
- COORDINATE WITH THE OWNER'S RESPECTIVE DEPARTMENTS FOR THE DISCONNECTION AND REMOVAL OF TELECOMMUNICATIONS, PROCESS, PAGING, FIRE ALARM, AND SECURITY SYSTEM DEVICES, EQUIPMENT, AND CABLING.
- COORDINATE WITH THE ENGINEER, GENERAL, MECHANICAL, AND PLUMBING CONTRACTORS FOR EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE THE ELECTRIC CONDUIT AND WIRING BACK TO THE POINT OF ORIGIN FOR EACH PIECE OF EQUIPMENT TO BE REMOVED.
- DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES TO ACCOMMODATE ALTERATIONS. MAINTAIN CONTINUITY OF ALL FIRE ALARM INITIATION AND INDICATING CIRCUITS SERVING OTHER AREAS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS REQUIRED.
- EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY OPERATIONAL UNTIL NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED, AND ACCEPTED. THE EXISTING FIRE ALARM SYSTEM PANELS, DEVICES, CABLING, RACEWAYS, ETC., SHALL BE DISCONNECTED AND REMOVED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REMOVE ALL WIRING/CABLING NO LONGER IN USE FROM EXISTING RACEWAYS/CONDUITS. RACEWAYS/CONDUITS NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLABS SHALL BE CUT BACK AS REQUIRED AND CAPPED. SURFACE-MOUNTED RACEWAYS/CONDUITS NO LONGER IN USE SHALL BE REMOVED.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION CRITERIA.
- THE EXISTENCE OF UTILITIES AND APPURTENANCES AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THOROUGHLY INVESTIGATE THE EXACT SIZE, TYPE, LOCATION AND ELEVATION PRIOR TO THE START OF CONSTRUCTION. FIELD MEASURE TO VERIFY EXISTING AND CONTRACT INTERFACE DIMENSIONS, LOCATIONS, AND OTHER CONDITIONS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- ASSUME MATERIALS TO BE DEMOLISHED ARE POSITIVE FOR HAZARDOUS MATERIALS AND DISPOSE OF AS NECESSARY IN ACCORDANCE WITH APPLICABLE REGULATIONS. REFER TO SPECIFICATIONS FOR MORE DETAILS.
- OWNER RETAINS RIGHT OF FIRST REFUSAL FOR ALL ITEMS TO BE REMOVED OR DEMOLISHED. TAKE REASONABLE CARE TO AVOID DAMAGE TO ITEMS TO BE RETAINED BY OWNER. NO ADDITIONAL CHARGE WILL BE ALLOWED FOR REMOVAL OF SALVAGEABLE ITEMS.
- PROPERLY DISPOSE OF DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES, REGULATIONS, AND STATE STANDARDS.

GENERAL NOTES:

- BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
- PROVIDE TEMPORARY POWER AND EQUIPMENT AS REQUIRED TO KEEP SYSTEMS OPERATIONAL, SEE 26 05 00 FOR SEQUENCING AND SCHEDULING.
- REFER TO PROCESS MECHANICAL DRAWINGS AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT LOCATIONS AND POWER REQUIREMENTS.
- REFER TO ARCHITECTURAL FLOOR PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF CEILING MOUNTED DEVICES.
- REFER TO ARCHITECTURAL ELEVATIONS AND ELECTRICAL DETAIL DRAWINGS FOR COORDINATION OF WALL MOUNTED DEVICES AND MOUNTING HEIGHTS.
- ALL CONDUIT SHALL BE INSTALLED ATTACHED TO THE TOP OF STEEL (TOP CHORD OF JOIST/GIRDER).
- COORDINATE ALL DEVICE LOCATIONS WITH GC AND/OR OWNER PRIOR TO ROUGH-IN.
- COORDINATE ALL REQUIRED OPENINGS/PENETRATIONS THROUGH WALLS, FLOORS, AND CEILING WITH OTHER TRADES AND APPROVED EQUIPMENT SUBMITTALS.
- ALL PIPES OR OTHER UTILITIES DAMAGED DURING THE CONTRACTOR'S OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO COST TO THE OWNER.
- SUPPORT ALL UTILITIES AND STRUCTURES DURING CONSTRUCTION AND MAKE REPAIRS IF DAMAGED AT NO COST TO THE OWNER.
- PREVENT DUST FROM BECOMING A NUISANCE OR HAZARD. CONTROL DUST DURING AND AFTER CONSTRUCTION.
- DO NOT COMBINE POWER AND SIGNAL WIRING IN ANY CONDUIT, BOX, WIREWAY, CABLE TRAY, ETC. WITHOUT WRITTEN PERMISSION FROM THE ENGINEER, UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- ALL WIRE SHALL UTILIZE CONDUITS TO SERVE ALL BUILDING AND PROCESS EQUIPMENT, UNLESS OTHERWISE SPECIFIED.
- ALL EQUIPMENT AND DEVICE TYPES SHALL MEET THE SPECIFICATIONS AND AREA CLASSIFICATION REQUIREMENTS.

GENERAL SITE NOTES:

- REFER TO THE CIVIL DRAWINGS FOR THE EXACT LOCATION OF ALL SITE LIGHTING, SIGNS, ETC.
- ALL EXCAVATION, TRENCHING, BACK FILL AND COMPACTION OF DUCT BANKS, TRANSFORMER PADS, SITE LIGHTING BASES, BY THE GC.
- SITE LIGHTING POLE BASES SHALL BE FURNISHED BY THE EC, INSTALLED BY THE GC. COORDINATE CONDUIT AND LIGHT POLE BOLT PATTERNS WITH GC.
- EACH LIGHT POLE BASE SHALL HAVE A LIGHTING HAND HOLE FURNISHED AND INSTALLED ADJACENT TO THE POLE BASE.
- WHERE ROUTING IS SPECIFICALLY INDICATED, CONDUITS SHALL BE ROUTED AS INDICATED ON THE DRAWING. NO EXCEPTION WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.
- ALL CONCRETE WORK SHALL BE BY THE GC.
- COORDINATE DUCT BANK DIMENSIONS AND LAYOUTS WITH THE GC PRIOR TO STARTING WORK.
- PROVIDE CONDUIT EXPANSION FITTINGS AT ALL BUILDINGS WHERE REQUIRED BY THE SPECIFICATIONS.

GENERAL LIGHTING NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION OF LIGHT FIXTURE LOCATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION OF WALL MOUNTED FIXTURE LOCATIONS.
- COORDINATE LIGHT FIXTURE TRIMS WITH REFLECTED CEILING PLANS AND ARCHITECT/GENERAL CONTRACTOR/ENGINEER PRIOR TO PURCHASE AND INSTALLATION.
- COORDINATE THE LOCATION OF ALL EXIT SIGNS AND EMERGENCY LIGHTING WITH EQUIPMENT. EXIT SIGNS AND EMERGENCY LIGHTING SHALL NOT BE OBSTRUCTED.

GENERAL POWER NOTES:

- ALL RECEPTACLES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND MECHANICAL & ELECTRICAL CLOSETS SHALL BE GFI TYPE.
- ALL RECEPTACLES IN PROCESS AREAS, HOSE-DOWN LOCATIONS, BELOW GRADE LOCATIONS, ON THE ROOF AND EXTERIOR TO THE BUILDING SHALL HAVE WEATHER-PROOF WHILE-IN-USE COVERS AND SHALL BE GFI TYPE.
- DEVICE TYPES SHALL BE SUITABLE FOR THE SPECIFIC AREA CLASSIFICATION SHOWN.
- PLUMBING FIXTURES: REFER TO PLUMBING DRAWINGS FOR ALL FIXTURES WITH AUTOMATIC SENSORS. PROVIDE ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. COORDINATE LOCATION AND QUANTITY WITH GC AND ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

GENERAL WIRING DIAGRAM NOTES:

- DASHED LINES ON WIRING DIAGRAMS REPRESENT FIELD WIRING, WHICH SHALL BE RUN IN CONDUIT (3/4" MINIMUM).
 - FIELD WIRING FOR DISCRETE/DIGITAL/DRY CONTACT TYPE SIGNALS (SHOWN CONNECTED TO RELAY CONTACTS, SWITCHES, PUSHBUTTONS, PILOT LIGHTS, ETC.) SHALL BE #14 WIRING RUN IN CONDUIT.
 - FIELD WIRING FOR EACH ANALOG/TRANSMITTER/SENSOR SIGNAL SHOWN (INCLUDING THERMISTOR & SEAL LEAK/FAIL SENSOR) SHALL BE A #18TSP CABLE (UNLESS OTHERWISE NOTED) RUN IN CONDUIT.
 - LINES CALLED OUT AS ETHERNET (DASHED OR SOLID) REPRESENT AN ETHERNET CABLE RUN IN CONDUIT.
- PRIOR TO INSTALLING ANY CONDUITS OR PULLING ANY WIRE, CONFIRM WIRING REQUIREMENTS WITH THE EQUIPMENT AND/OR SYSTEM SUPPLIER'S SUBMITTED WIRING DIAGRAMS. CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES.
- PRIOR TO PERFORMING WIRING ON VENDOR SUPPLIED CONTROL PANELS AND VENDOR SUPPLIED EQUIPMENT, COORDINATE EXACT WIRING CONNECTIONS FROM VENDOR SUPPLIED WIRING DIAGRAMS. IF THERE ARE ANY DISCREPANCIES, REPORT THIS TO THE ENGINEER AND THE ENGINEER WILL PROVIDE DIRECTION ON HOW TO PROCEED.
- COMPREHENSIVE FIELD WIRING REQUIREMENTS ARE NOT SHOWN ON THE WIRING DIAGRAM DRAWINGS. REFER TO SITE/FLOOR PLANS FOR ADDITIONAL FIELD WIRING REQUIREMENTS.
- #18 TSP SIGNAL CABLE MAY BE COMBINED WITH OTHER #18 TSP SIGNAL CABLE IN CONDUIT (UP TO 2.5") SIZED FOR 40% FILL.
- #14 CONTROL WIRING MAY BE COMBINED WITH OTHER #14 CONTROL WIRING IN CONDUIT (UP TO 2") SIZED FOR 40% FILL.

EMBEDDED CONDUIT NOTES:

- CONDUIT MAY NOT BE EMBEDDED IN THE FLOOR/WALL UNLESS SPECIFICALLY ALLOWED/CALLED FOR IN THE DRAWINGS/SPECIFICATIONS, OR WITH WRITTEN PERMISSION FROM THE ENGINEER.
- SUBMIT FOR APPROVAL AN EMBEDDED CONDUIT ROUTING PLAN FOR ALL EMBEDDED CONDUITS AT LEAST 4 WEEKS PRIOR TO PLACEMENT OF CONCRETE OR MASONRY; THE PLAN SHALL INCLUDE ALL CONDUIT SIZES, SPACING, AND PENETRATION LOCATIONS.

GENERAL LOW VOLTAGE AND SECURITY NOTES:

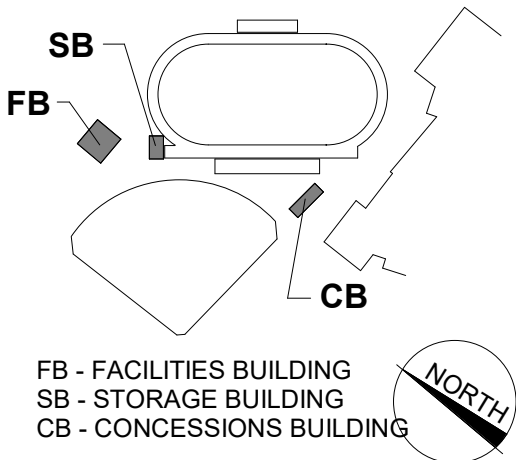
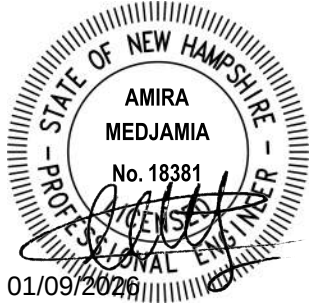
- COORDINATE THE LOCATION OF ALL LOW VOLTAGE AND SECURITY DEVICES WITH THE GC AND OWNER PRIOR TO ROUGH-IN.
- PROVIDE ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, DIAGRAMS, ETC. COORDINATE LOCATION, QUANTITY WITH GC AND OWNER PRIOR TO INSTALLATION.
- PROVIDE DEDICATED 20A, 120VAC POWER AT SECURITY LOCATIONS FOR CONNECTION TO THE SECURITY SYSTEM AS APPLICABLE. ALL PRIMARY CONTROL PANELS SHALL BE CONNECTED TO GENERATOR OR UPS BACKUP CIRCUITS.
- COORDINATE DOOR SECURITY HARDWARE WITH THE DOOR SUPPLIER AND GC.

ELECTRICAL FASTENING NOTES:

- EQUIPMENT SHALL BE FASTENED USING THE FOLLOWING MEANS BASED ON THE TYPE OF WALL OR SURFACE:
 - FOR MOUNTING TO CONCRETE (CMU OR PRECAST), USE CRACKED-CONCRETE RATED EXPANDING SHEATH CONCRETE ANCHORS.
 - FOR MOUNTING TO METAL COLUMNS, METAL EQUIPMENT FRAME, OR METAL MOUNTING PLATES, USE STAINLESS STEEL STUD WELD WITH STAINLESS STEEL ACORN NUT.
 - FOR MOUNTING TO INSULATED METAL PANELS (IMP), USE COATED JACKNUT THREADED INSERT MANUFACTURED BY EMHART TECHNOLOGIES OR AU-VE-CO PRODUCTS WITH STAINLESS STEEL SCREWS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FASTENERS AND MATERIALS SHALL BE OF THE MATERIAL TYPE SPECIFIED FOR THE AREA, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS OR DETAILS.
- WHEN MOUNTING TO IMP AND EQUIPMENT WEIGHT IS > 50 LBS, THRU BOLT AS SHOWN IN DETAIL.

WALL, FLOOR, AND ROOF PENETRATION NOTES:

- SUBMIT FOR APPROVAL A CONDUIT PENETRATION LAYOUT FOR ALL CONDUIT PENETRATIONS THROUGH FLOORS, WALLS, AND ROOFS AT LEAST 4 WEEKS BEFORE THE WALL/FLOOR/ROOF IS PLACED/INSTALLED.
- SET UP A CONDUIT PENETRATION COORDINATION MEETING WITH THE GC (AFTER SUBMITTING THE CONDUIT PENETRATION LAYOUT) TO COORDINATE ALL CONDUIT PENETRATIONS, INCLUDING LOCATIONS, SPACING, SLEEVES, BOXOUTS, REINFORCEMENT, ETC.
- CORING THROUGH WALLS/FLOORS WILL NOT BE ALLOWED FOR NEW CONSTRUCTION; COORDINATE ALL PENETRATIONS WITH THE GC AND ENGINEER PRIOR TO THE WALL/FLOOR BEING PLACED/INSTALLED. REWORK (INCLUDING ENGINEERING) ASSOCIATED WITH ADDITIONAL CONDUIT PENETRATIONS AFTER PLACEMENT OF CONCRETE OR MASONRY WILL BE PAID FOR BY THE ELECTRICAL CONTRACTOR.
- FOR PENETRATIONS THROUGH EXISTING WALLS AND FLOORS, LOCATE REBAR USING GROUND PENETRATING RADAR TO ENSURE CORES DO NOT CONTACT REBAR. CORE HOLES SHALL BE AS FAR FROM REBAR AS POSSIBLE.
- WHERE CONDUIT WILL BE IN DIRECT CONTACT WITH NEW CONCRETE, THE CONDUIT SHALL TRANSITION TO PVC COATED RGS AT LEAST 6" BEYOND BOTH SURFACES FOR THE FOLLOWING PENETRATION LOCATIONS:
 - ALL FLOOR PENETRATIONS
 - FOUNDATION WALL PENETRATIONS
- FOR ROOF PENETRATIONS:
 - COORDINATE ALL ROOF PENETRATIONS WITH THE GC AND ROOFING CONTRACTOR. CONDUIT SHALL NOT BE WITHIN 12" (MINIMUM) OF A PARAPET, CURB OR OTHER PIECE OF EQUIPMENT; COORDINATE SPACING
 - WITH ROOFING MFR'S DETAILS.
 - FOR HVAC EQUIPMENT WITH A CURB, THE CONDUIT SHALL RUN WITHIN THE EQUIPMENT CURB OPENING WHERE POSSIBLE; COORDINATE WITH GC AND ROOFING CONTRACTOR.



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Dover High
School Athletic
Facility Project

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

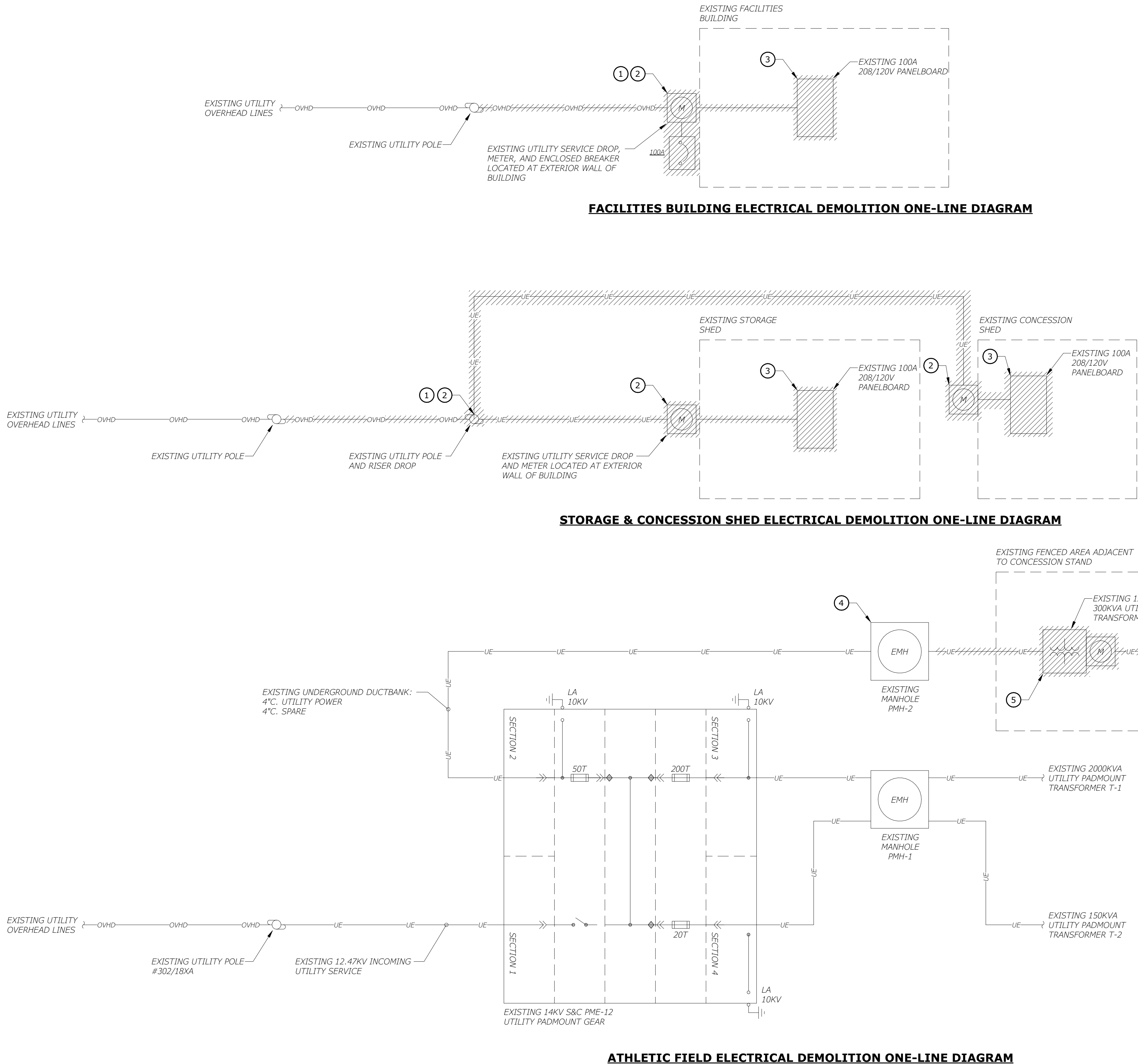
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DATE: 12/12/2025		
FILE: 05085-0001-E-002		
DRAWN BY: C. NELSON		
DESIGNED BY: C. MELENDEZ		
CHECKED BY: A. MEDJAMIA		
APPROVED BY: J. PERSECHINO		

ELECTRICAL GENERAL
NOTES

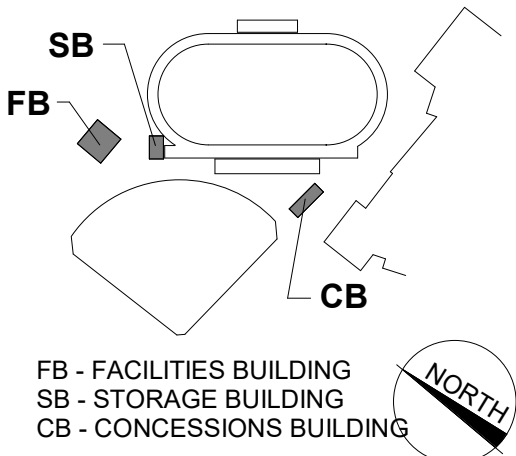
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E-002

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Plotted on: 1/9/2026 4:00:08 PM
By: C. NELSON
Tighe & Bond, Address: 25 Alumni Drive, Dover, NH 03824
Project: 05085-001, Dover High School, 05085-001_24-228 Dover HS Athletics Buildings MEP R25.rvt



- GENERAL NOTES:**
1. REFER TO ELECTRICAL SITE PLAN ED-101 FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- DEMOLITION KEYNOTES:**
- 1 ELECTRICAL CONTACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REMOVAL OF EXISTING UTILITY POLES AND OVERHEAD ELECTRICAL SERVICE LINES WITH THE UTILITY PROVIDER, EVERSOURCE.
 - 2 DEMOLISH EXISTING OVERHEAD SERVICE DROP, SERVICE ENTRANCE CONDUIT/WIRE, ELECTRICAL METER SOCKET, AND DISCONNECT AT EXTERIOR OF BUILDING. STORE EXISTING UTILITY METER AND TURN OVER TO UTILITY.
 - 3 DEMOLISH EXISTING INTERIOR PANELBOARD AND ALL ASSOCIATED CONDUIT/WIRE AND APPURTENANCES.
 - 4 EXISTING UNDERGROUND MANHOLE 'PMH-2' TO REMAIN. INTERCEPT AND MAINTAIN EXISTING INCOMING UNDERGROUND CONDUIT FROM PADMOUNT SWITCH FOR RE-USE. COORDINATE REQUIREMENTS FOR DISCONNECTION AND RECONNECTION OF SERVICE WITH THE UTILITY PROVIDER, EVERSOURCE.
 - 5 DEMOLISH EXISTING UNDERGROUND CONDUIT/WIRE TO PADMOUNT UTILITY TRANSFORMER 'T-3' AND COORDINATE EXACT REQUIREMENTS FOR DISPOSAL OF TRANSFORMER WITH THE UTILITY.
 - 6 DEMOLISH EXISTING UNDERGROUND AND ABOVEGROUND CONDUIT/WIRE, OUTDOOR SURFACE MOUNTED PANELBOARDS, AND PADMOUNT TRANSFORMER IN THEIR ENTIRETY.



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Dover High
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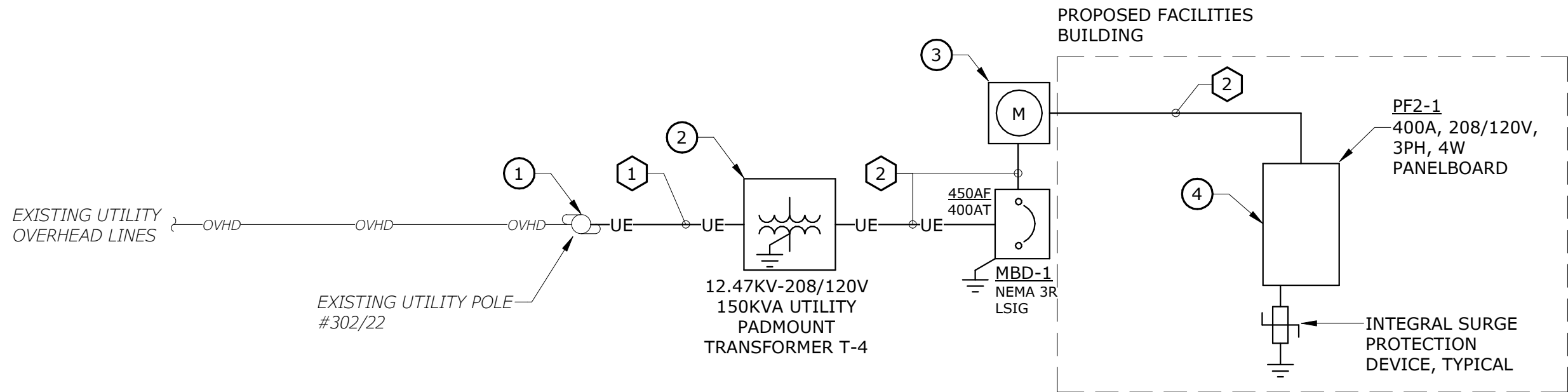
25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
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DATE:	12/12/2025	
FILE:	D5085-0001-E-003	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

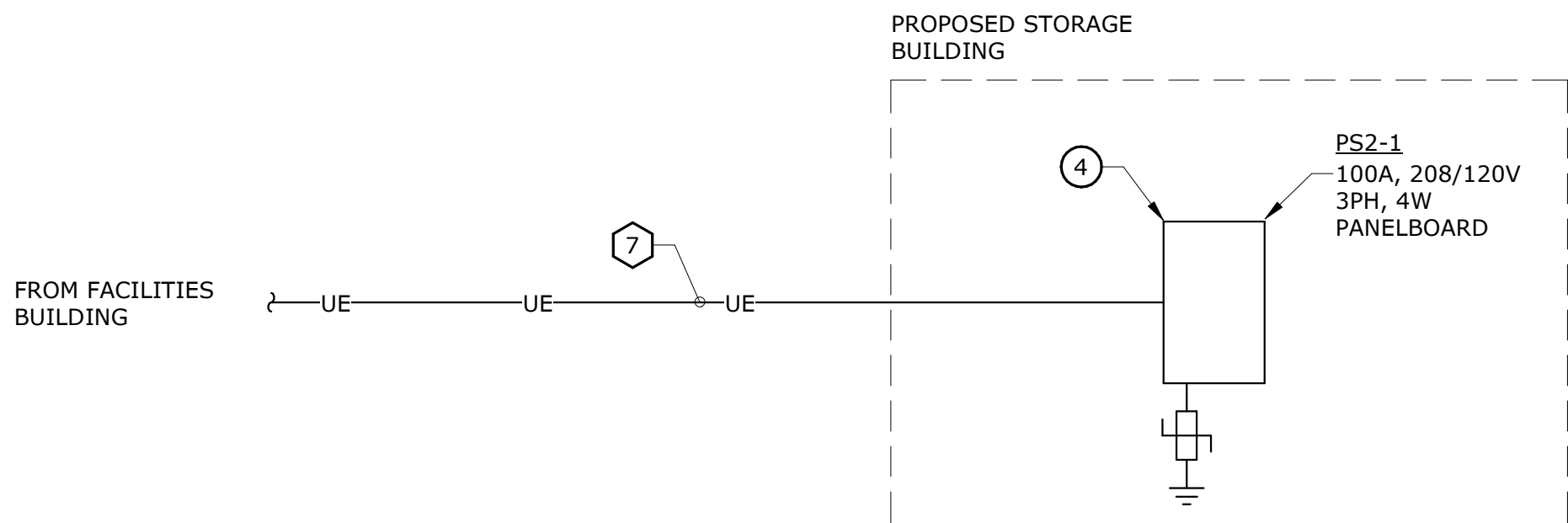
ELECTRICAL ONE-LINE
DIAGRAMS 1 OF 2

SCALE: NO SCALE

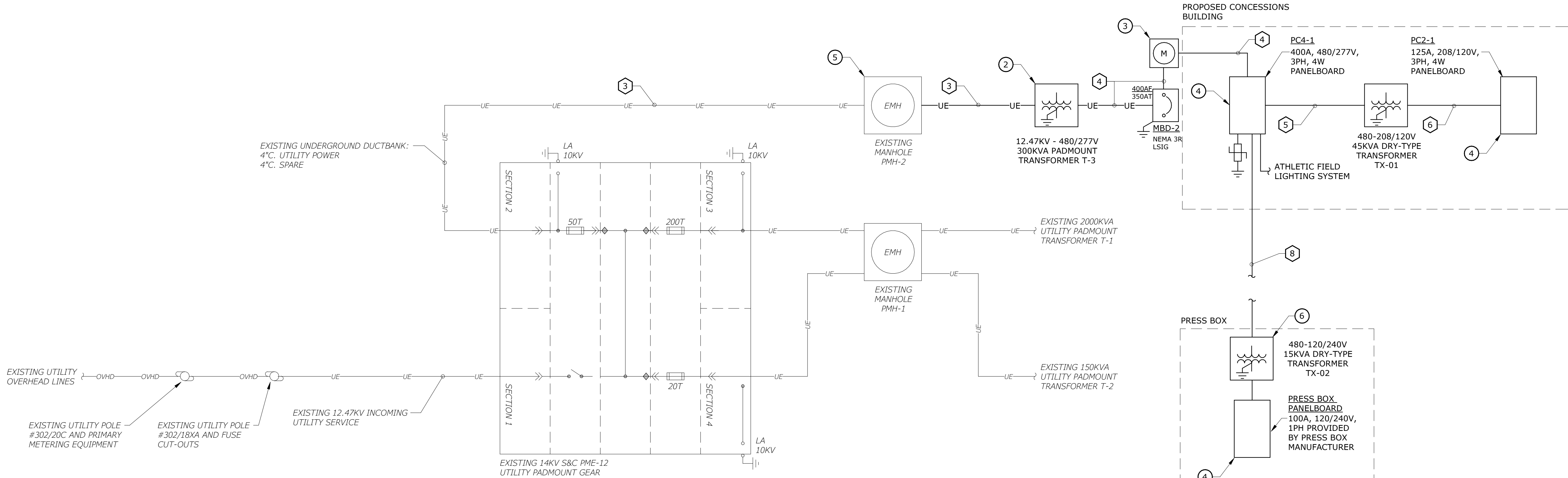
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By: C. NELSON
Tighe & Bond - Address: 0001 / 05085-001
Dover High School / 05085-001_24-228 Dover HS Athletics Buildings_MEP R25.rvt



FACILITIES BUILDING ELECTRICAL ONE-LINE DIAGRAM



STORAGE BUILDING ELECTRICAL ONE-LINE DIAGRAM



ATHLETIC FIELD ELECTRICAL ONE-LINE DIAGRAM

GENERAL NOTES:

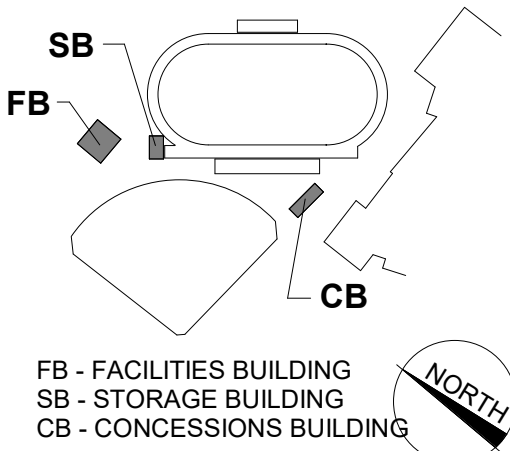
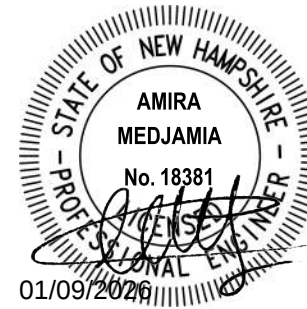
1. REFER TO ELECTRICAL SITE PLAN E-101 FOR ADDITIONAL REQUIREMENTS.
2. COORDINATE THE EXACT SEQUENCING OF SERVICE ENTRANCE EQUIPMENT WITH THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF THE WORK. FINAL INSTALLED CONDITION OF METERING ARRANGEMENT SHALL BE CAPTURED ON PROJECT RECORD DRAWINGS.

KEYNOTES:

- 1 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INTERCONNECTION OF ELECTRICAL SERVICE AT THE EXISTING UTILITY POLE WITH THE UTILITY PROVIDER, EVERSOURCE.
- 2 PROVIDE PAD, VAULT, AND GROUNDING PER THE UTILITY COMPANY STANDARDS AND SPECIFICATIONS. FINAL SIZE OF UTILITY OWNED TRANSFORMER BY UTILITY.
- 3 PROVIDE EXTERIOR MOUNTED WEATHERPROOF METER SOCKET AND ENCLOSED SERVICE ENTRANCE RATED MAIN CIRCUIT BREAKER PER UTILITY STANDARDS. COORDINATE RETRIEVAL OF METER FOR INSTALLATION WITH THE UTILITY COMPANY. PROVIDE SERVICE ENTRANCE GROUNDING TRIAD, REFER TO ELECTRICAL DETAILS FOR FURTHER INFORMATION.
- 4 PROVIDE SURFACE MOUNTED PANELBOARD. REFER TO PANEL SCHEDULE FOR FURTHER INFORMATION.
- 5 EXISTING MANHOLE AND CONDUIT/WIRE MAINTAINED DURING DEMOLITION. EXTEND CONDUIT/WIRE AS REQUIRED TO PROPOSED PADMOUNT TRANSFORMER. COORDINATE EXACT REQUIREMENTS AND INTERCONNECTION WITH THE UTILITY COMPANY AND UTILITY REQUIREMENTS.
- 6 PROVIDE TRANSFORMER WALL MOUNTED TO PRESS BOX EXTERIOR WALL PER PRESS BOX RECOMMENDED INSTALLATION INSTRUCTIONS. (SQUARE D #15S40FSS OR APPROVED EQUAL)

CONDUIT AND WIRE KEYNOTES:

- 1 EVERSOURCE PRIMARY CONDUCTORS, PROVIDE 5"C WITH PULL CORDS
- 2 4#600KCMIL IN 4"C
- 3 3#1/0 EPR MV-105 CABLE IN 4"C. RE-USE EXISTING 4" CONDUIT UPSTREAM OF 'PMH-2'
- 4 4#500KCMIL IN 4"C
- 5 3#4, #8G IN 1"C
- 6 4#1/0, #6G IN 2"C
- 7 4#2, #8G IN 2"C
- 8 2#8, #10G IN 1-1/2"C



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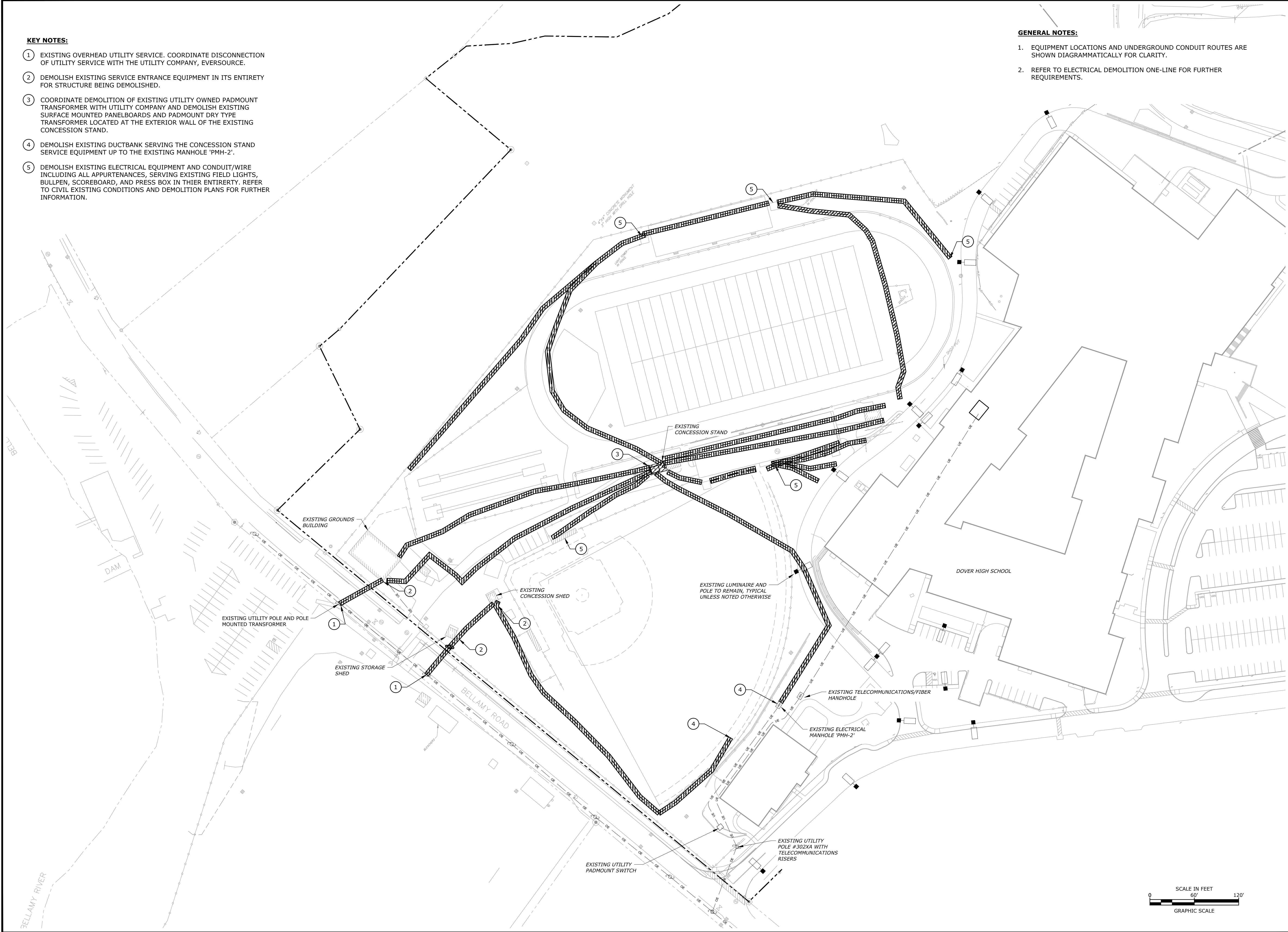
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MARK	DATE	DESCRIPTION
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DATE:	12/12/2025	
FILE:	D5085-0001-E-004	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

ELECTRICAL ONE-LINE
DIAGRAMS 2 OF 2

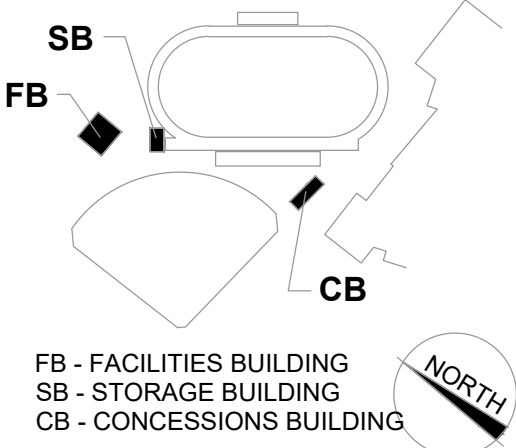
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E-004



- KEY NOTES:**
- EXISTING OVERHEAD UTILITY SERVICE. COORDINATE DISCONNECTION OF UTILITY SERVICE WITH THE UTILITY COMPANY, EVERSOURCE.
 - DEMOLISH EXISTING SERVICE ENTRANCE EQUIPMENT IN ITS ENTIRETY FOR STRUCTURE BEING DEMOLISHED.
 - COORDINATE DEMOLITION OF EXISTING UTILITY OWNED PADMOUNT TRANSFORMER WITH UTILITY COMPANY AND DEMOLISH EXISTING SURFACE MOUNTED PANELBOARDS AND PADMOUNT DRY TYPE TRANSFORMER LOCATED AT THE EXTERIOR WALL OF THE EXISTING CONCESSION STAND.
 - DEMOLISH EXISTING DUCTBANK SERVING THE CONCESSION STAND SERVICE EQUIPMENT UP TO THE EXISTING MANHOLE 'PMH-2'.
 - DEMOLISH EXISTING ELECTRICAL EQUIPMENT AND CONDUIT/WIRE INCLUDING ALL APPURTENANCES, SERVING EXISTING FIELD LIGHTS, BULLPEN, SCOREBOARD, AND PRESS BOX IN THIER ENTIRETY. REFER TO CIVIL EXISTING CONDITIONS AND DEMOLITION PLANS FOR FURTHER INFORMATION.

- GENERAL NOTES:**
- EQUIPMENT LOCATIONS AND UNDERGROUND CONDUIT ROUTES ARE SHOWN DIAGRAMMATICALLY FOR CLARITY.
 - REFER TO ELECTRICAL DEMOLITION ONE-LINE FOR FURTHER REQUIREMENTS.



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Facility Project**

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT NO: D5085-0001		
DATE: 12/12/2025		
FILE: D5085-0001_ED-101.DWG		
DRAWN BY: J. DEMEIROIS		
DESIGNED BY: C. MELENDEZ		
CHECKED BY: A. MEDJAMIA		
APPROVED BY: J. PERSECHINO		

**ELECTRICAL
DEMOLITION SITE PLAN**

SCALE: AS SHOWN

ED-101

KEY NOTES:

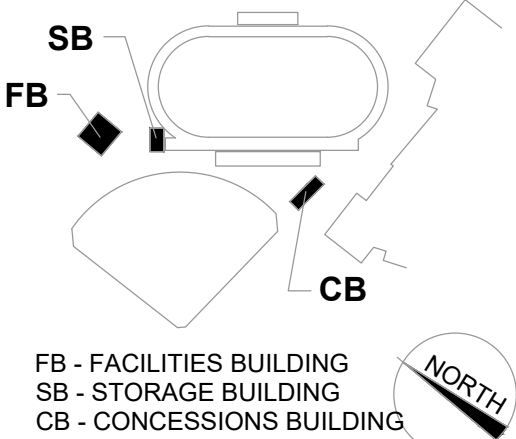
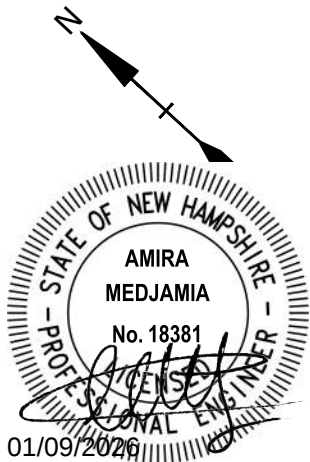
1. UTILITY PROVIDED PADMOUNT TRANSFORMER. REFER TO ONE-LINE DIAGRAM FOR FURTHER INFORMATION.
2. COORDINATE EXACT REQUIREMENTS FOR SERVICE WITH EVERSOURCE PRIOR TO COMMENCEMENT OF WORK.
3. BUILDING SERVICE ENTRY. REFER TO FLOOR PLANS FOR FURTHER INFORMATION.
4. PROVIDE SEPARATE TIER 22 RATED HANDHOLES FOR POWER AND TELECOMMUNICATIONS. IN AREAS SUBJECT TO VEHICULAR TRAFFICE, H-20 TRAFFIC RATED HANDHOLES SHALL BE PROVIDED. REFER TO ELECTRICAL DETAILS FOR FURTHER REQUIREMENTS.
5. COORDINATE EXACT LAYOUT OF SITE LIGHTING WITH THE FINAL APPROVED LIGHTING VENDOR. PROVIDE POLE, CONCRETE BASE, CONDUIT/WIRE AND LIGHTING HANDHOLE AS REQUIRED PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
6. PROVIDE CONDUIT/WIRE FOR COMMUNICATION AND POWER TO THE PRESS BOX. COORDINATE EXACT CONTROL SCHEME AND REQUIREMENTS WITH FINAL APPROVED MANUFACTURER.
7. PROVIDE CONDUIT, HANDHOLE, AND OTHER APPURTENANCES AS REQUIRED FOR THE INSTALLATION OF A FUTURE EV CHARGER.
8. PROVIDE CONDUIT AND FIBER OPTIC CABLE FOR TELECOMMUNICATIONS SERVICES AND FIRE ALARM INTERCONNECTION FROM THE EXISTING TELECOMMUNICATIONS MDF ROOM '044' IN THE HIGH SCHOOL TO THE FACILITIES BUILDING AND CONCESSION BUILDING DEMARCATION POINTS. COORDINATE EXACT REQUIREMENTS FOR SERVICE ENTRANCE EQUIPMENT AND SERVICE FOR DATA WITH THE OWNER AND LOCAL UTILITY. RE-USE EXISTING SPARE 4" CONDUIT IN EXISTING DUCTBANK.
9. PROVIDE POWER FROM ADJACENT SCOREBOARD CIRCUIT FOR FLAG POLE LUMINAIRE POWER.
10. PROPOSED WEATHERPROOF EXTERIOR GROUND BOX AND CONDUIT/WIRE FROM CONCESSIONS BUILDING. ELECTRICAL GROUND BOXES SHALL BE PROVIDED WITH PROVISIONS FOR RECEPTACLES. COORDINATE RECEPTACLE TYPES AND MAXIMUM ALLOWABLE CONDUIT SIZE WITH MANUFACTURER RECOMMENDATIONS AND LIMITATIONS.
11. PROVIDE CONDUIT/WIRE FOR COMMUNICATION AND POWER TO THE SCOREBOARD. COORDINATE EXACT CONTROL SCHEME AND REQUIREMENTS WITH FINAL APPROVED MANUFACTURER.
12. PROVIDE FIELD HANDHOLE AND SPARE CONDUITS WITH PULL STRING.

GENERAL NOTES:

1. EQUIPMENT LOCATIONS AND UNDERGROUND CONDUIT ROUTES ARE SHOWN DIAGRAMMATICALLY FOR CLARITY. REFER TO ELECTRICAL DUCTBANK SECTIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

ALTERNATE BID NOTES:

- A1. ADD ALTERNATE #2: PROPOSED BASEBALL FIELD LIGHTING. PROVIDE CONCRETE BASE, POLE, AND LUMINAIRES. COORDINATE ANCHORING LAYOUT AT POLE BASE WITH MANUFACTURER POLE LAYOUT AND RECOMMENDED INSTALLATION. TYPICAL OF 6.
- A2. ADD ALTERNATE #2: PROPOSED LUMINAIRE TYPE "SPL-4" IS A BASE BID POLE AND ADD ALTERNATE LUMINAIRES ARE PROPOSED FOR BACK-TO-BACK MOUNTING.
- A3. ADD ALTERNATE #4: PROPOSED WEATHERPROOF EXTERIOR GROUND BOX AND CONDUIT/WIRE FROM CONCESSIONS BUILDING. ELECTRICAL GROUND BOXES SHALL BE PROVIDED WITH PROVISIONS FOR RECEPTACLES. COORDINATE RECEPTACLE TYPES AND MAXIMUM ALLOWABLE CONDUIT SIZE WITH MANUFACTURER RECOMMENDATIONS AND LIMITATIONS.



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Dover High
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Facility Project

Dover School
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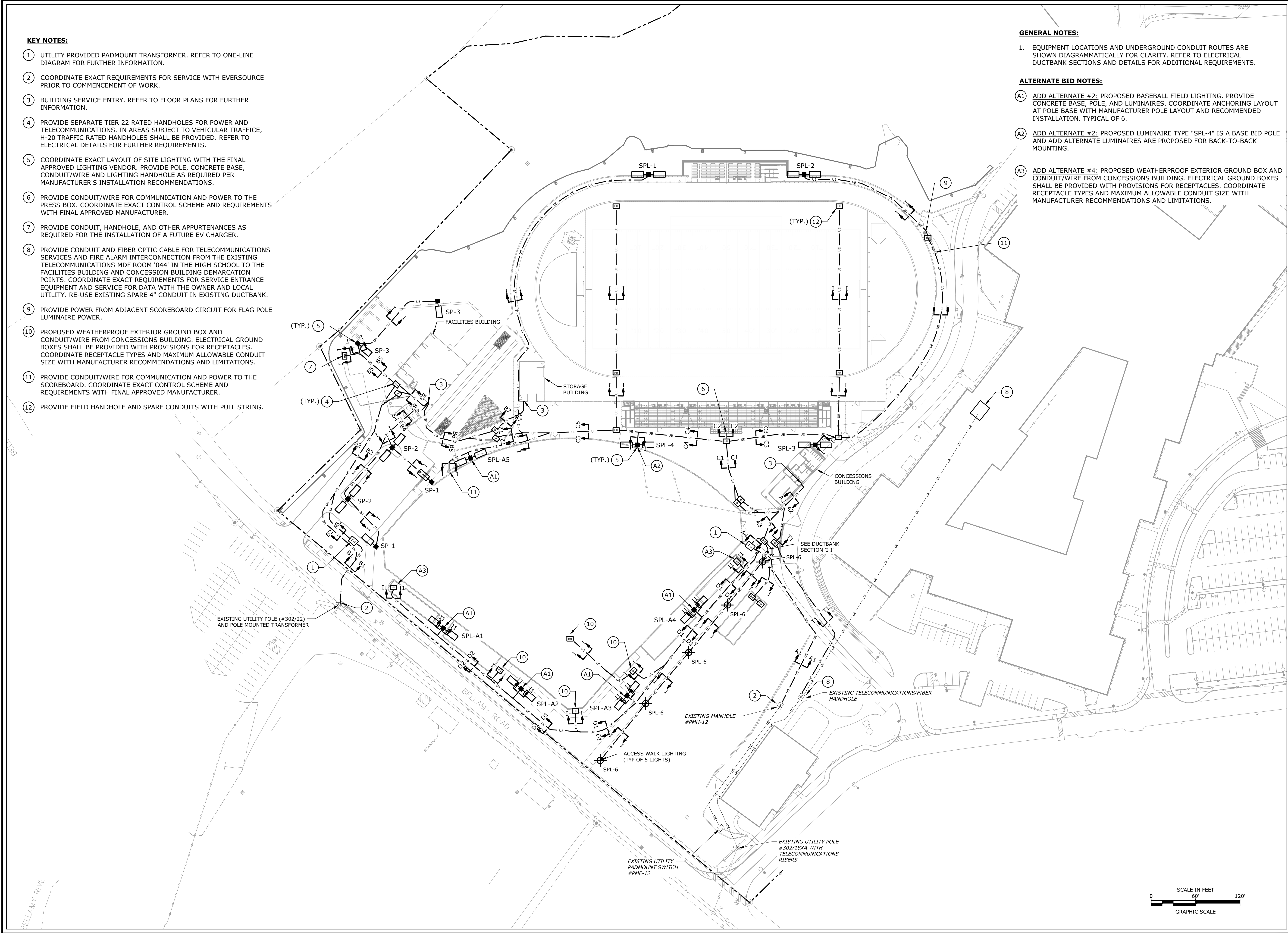
25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
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DATE:	12/12/2025	
FILE:	D5085-0001_E-101.DWG	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

ELECTRICAL
SITE PLAN

SCALE: AS SHOWN

E-101



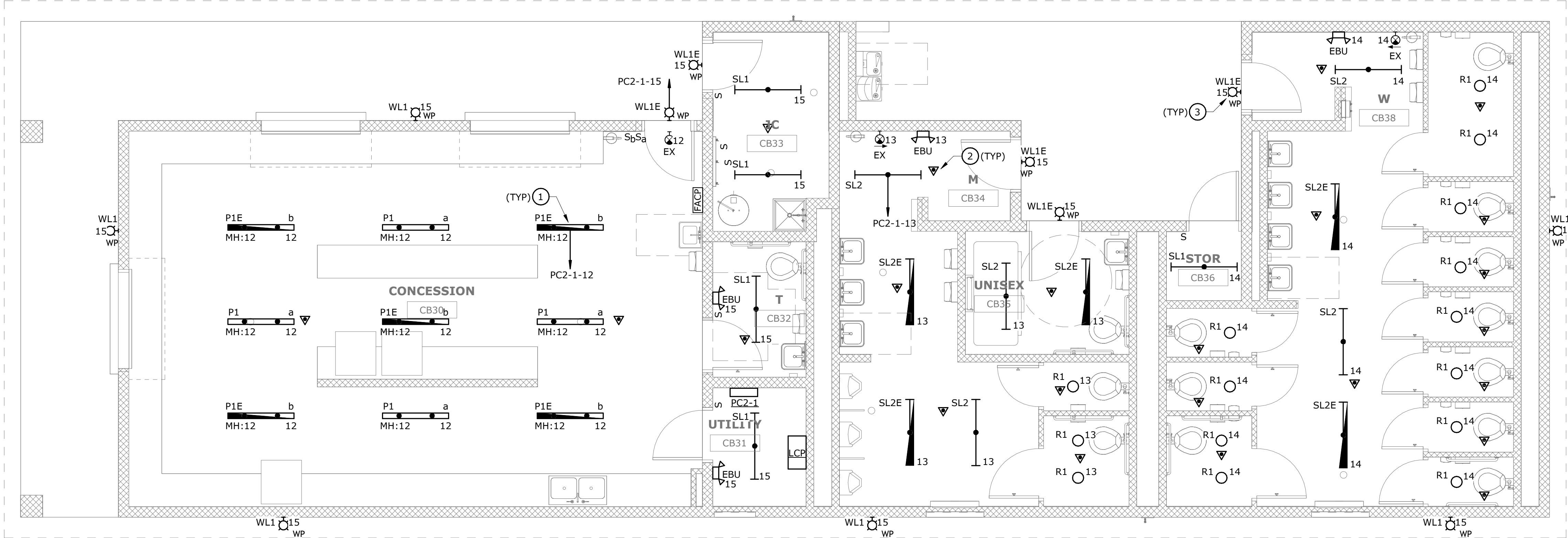
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Project: 1/9/2026 4:00:12 PM
Tighe & Bond - Address: 001_24-228 Dover HS Athletics Buildings - MEP R25.rvt
B:\1_06\MEP\BOS

GENERAL NOTES:

1. REFER TO PANEL SCHEDULES FOR LIGHTING, CONDUIT, AND WIRING INFORMATION.
2. FIELD COORDINATE LUMINAIRE LOCATIONS AND ELEVATIONS WITH SITE CONDITIONS. FOR LUMINAIRE TYPES, REFER TO LUMINAIRE SCHEDULE. TYPICAL FOR ALL LUMINAIRES.

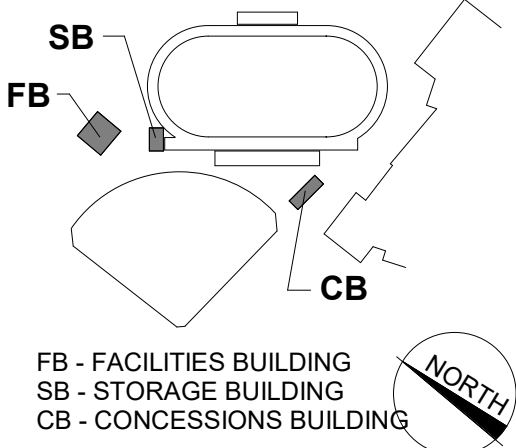
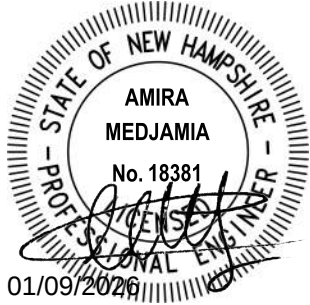
KEYNOTES:

- 1 ALL LIGHTING FIXTURES SHALL BE CIRCUITED FROM PROPOSED 208/120V PANEL 'PC2-1'. EMERGENCY EXIT SIGNS AND EMERGENCY REMOTE HEADS SHALL BE WIRED TO LIGHTING CIRCUIT SERVING THE AREA.
- 2 PROVIDE OCCUPANCY SENSORS COMPATIBLE WITH PROPOSED LUMINAIRE AND PER MANUFACTURERS RECOMMENDED INSTALLATION.
- 3 EXTERIOR WALL MOUNTED FIXTURES SHALL BE MOUNTED AT 8' AFF WHERE LOCATED AT ENTRANCES AND 12' AFF IN ALL OTHER LOCATIONS, TYPICAL.



ELECTRICAL LIGHTING CONCESSIONS BUILDING FLOOR PLAN

SCALE: 1/4" = 1'-0"



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MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-E-111	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

ELECTRICAL LIGHTING
CONCESSIONS BUILDING
FLOOR PLAN

SCALE: AS SHOWN

E-111

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ELECTRICAL LIGHTING FACILITIES BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

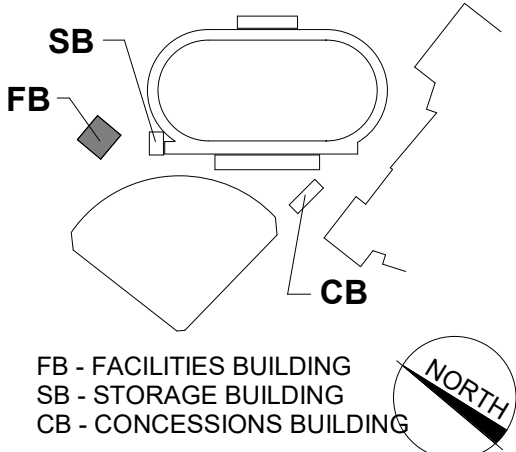
1. REFER TO PANEL SCHEDULES FOR LIGHTING, CONDUIT, AND WIRING INFORMATION.
2. FIELD COORDINATE LUMINAIRE LOCATIONS AND ELEVATIONS WITH SITE CONDITIONS. FOR LUMINAIRE TYPES, REFER TO LUMINAIRE SCHEDULE. TYPICAL FOR ALL LUMINAIRES.

KEYNOTES:

- ① ALL LIGHTING LUMINAIRES SHALL BE CIRCUITED FROM PROPOSED 208/120V PANEL 'PC2-1'. EMERGENCY EXIT SIGNS AND EMERGENCY REMOTE HEADS SHALL BE WIRED TO LIGHTING CIRCUIT SERVING THE AREA.
- ② PROVIDE OCCUPANCY SENSORS COMPATIBLE WITH PROPOSED LUMINAIRE AND PER MANUFACTURERS RECOMMENDED INSTALLATION.
- ③ EXTERIOR WALL MOUNTED FIXTURES SHALL BE MOUNTED AT 8' AFF WHERE LOCATED AT ENTRANCES AND 12' AFF IN ALL OTHER LOCATIONS, TYPICAL.

0 1 2' 4' 8'
SCALE: 1/4"=1'-0"

Tighe & Bond



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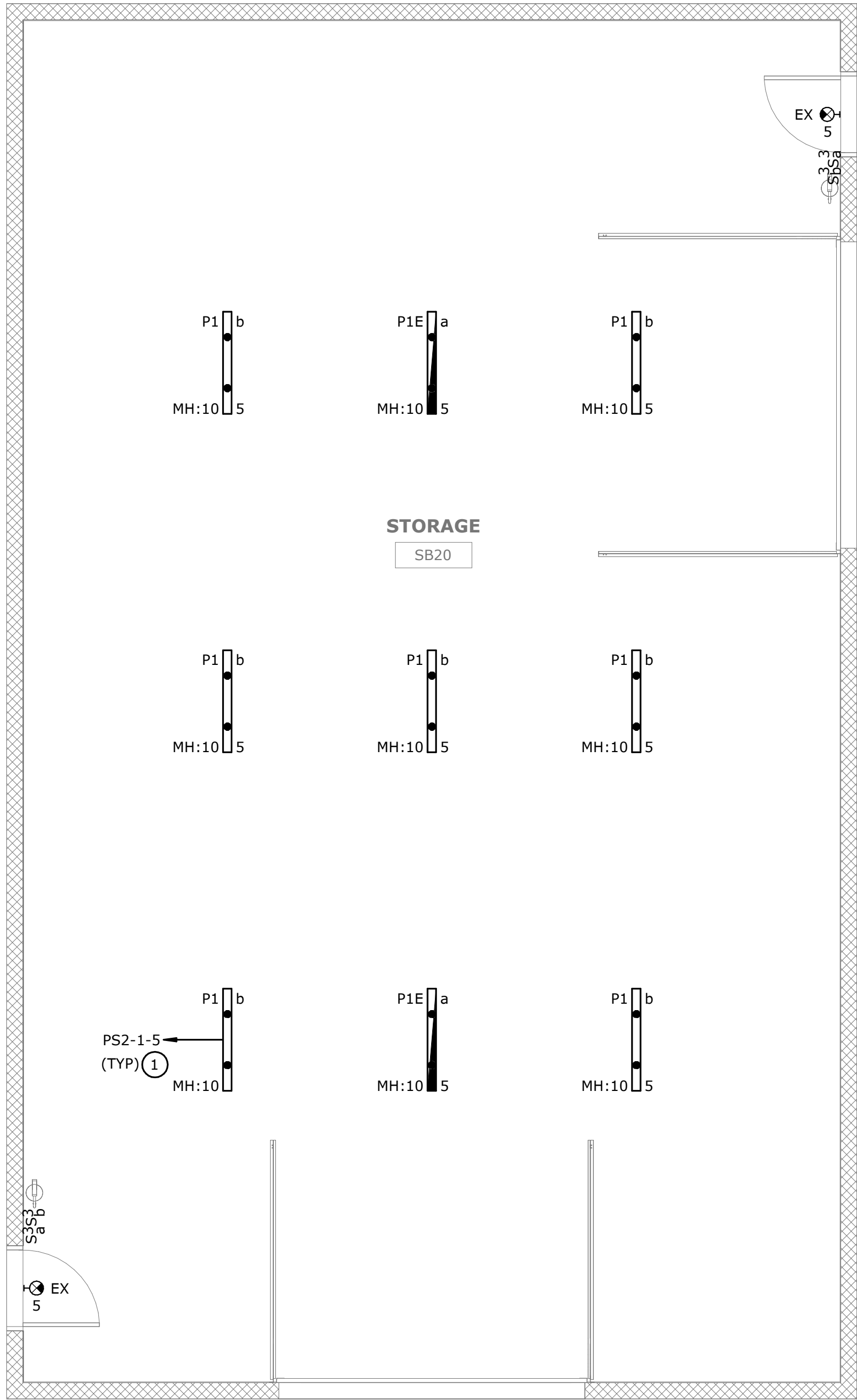
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DRAWN BY:	J. DEMEIROIS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

**ELECTRICAL LIGHTING
FACILITIES BUILDING
FLOOR PLAN**

SCALE: AS SHOWN

E-121

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Project: 1/9/2026 4:00:17 PM
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By: J. DEMEDEIROS



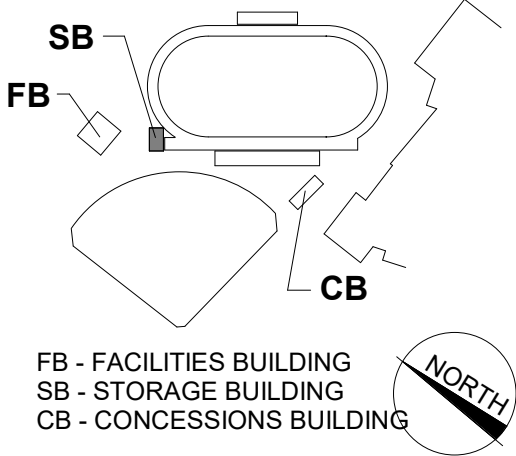
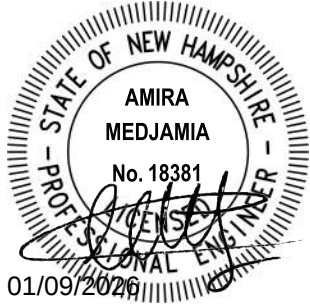
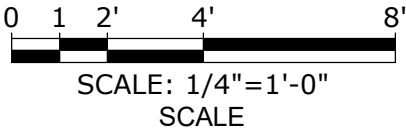
ELECTRICAL LIGHTING STORAGE BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO PANEL SCHEDULES FOR LIGHTING, CONDUIT, AND WIRING INFORMATION.
2. FIELD COORDINATE LUMINAIRE LOCATIONS AND ELEVATIONS WITH SITE CONDITIONS. FOR LUMINAIRE TYPES, REFER TO LUMINAIRE SCHEDULE. TYPICAL FOR ALL LUMINAIRES.

KEYNOTES:

- ① ALL LIGHTING FIXTURES SHALL BE CIRCUITED FROM PROPOSED 208/120V. PANEL 'PS2-1'.



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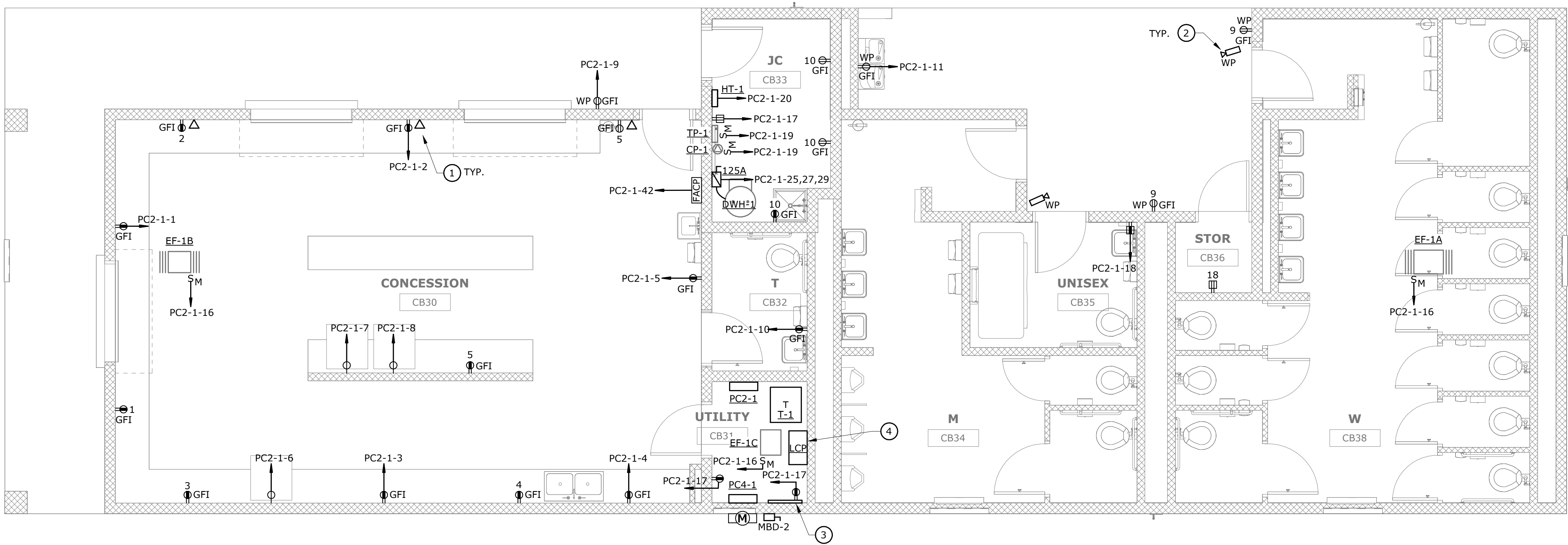
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FILE:	D5085-0001-E-131	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

**ELECTRICAL LIGHTING
STORAGE BUILDING FLOOR
PLAN**

SCALE: AS SHOWN

E-131

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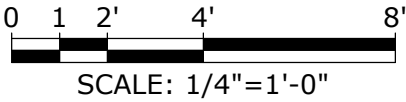
ELECTRICAL POWER CONCESSIONS BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

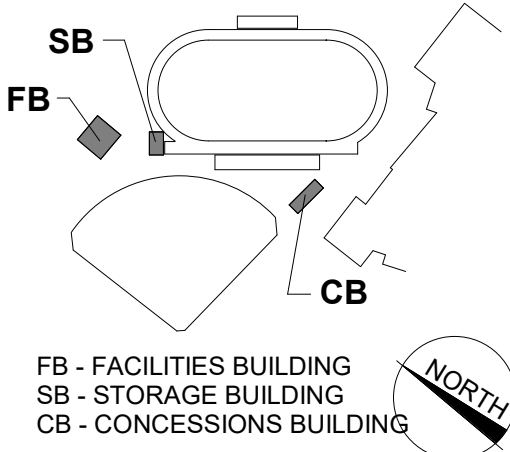
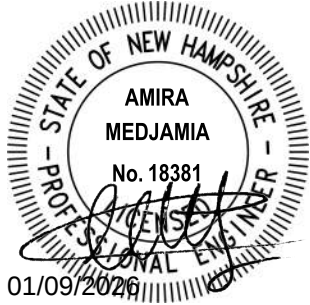
1. REFER TO PANEL SCHEDULES FOR CONDUIT, AND WIRING INFORMATION.

KEYNOTES:

- ① PROVIDE CAT6 CABLE AND 3/4" CONDUIT TO ELECTRICAL UTILITY ROOM, TYPICAL FOR ALL DATA OUTLETS.
- ② PROVIDE SECURITY JUNCTION BOXES MOUNTED UP HIGH FOR FUTURE SECURITY CAMERAS. ROUTE 3/4" CONDUIT BACK TO ELECTRICAL UTILITY ROOM TELECOMMUNICATIONS BACKBOARD AND PROVIDE PULL STRING IN EACH CONDUIT.
- ③ PROVIDE 24"x24" FIRE RETARDANT TELECOMMUNICATIONS BACKBOARD AND 12U DATA RACK FOR FUTURE UTILITY SERVICE ENTRANCE EQUIPMENT.
- ④ PROVIDE LIGHTING CONTROL AND MONITORING CABINET MOUNTED WITH MOUNTING STRUCTURE INSIDE ELECTRICAL UTILITY ROOM. COORDINATE FINAL LOCATION WITH OTHER SYSTEMS TO BE INSTALLED ON WALL.
- ⑤ PROVIDE HEAT TRACE AND HEAT TRACE CONTROL PANEL (RAYCHEM ACS-30 OR APPROVED EQUAL). REFER TO PLUMBING DRAWINGS FOR FURTHER INFORMATION. HEAT TRACE SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS.



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**Dover High
School Athletic
Facility Project**

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

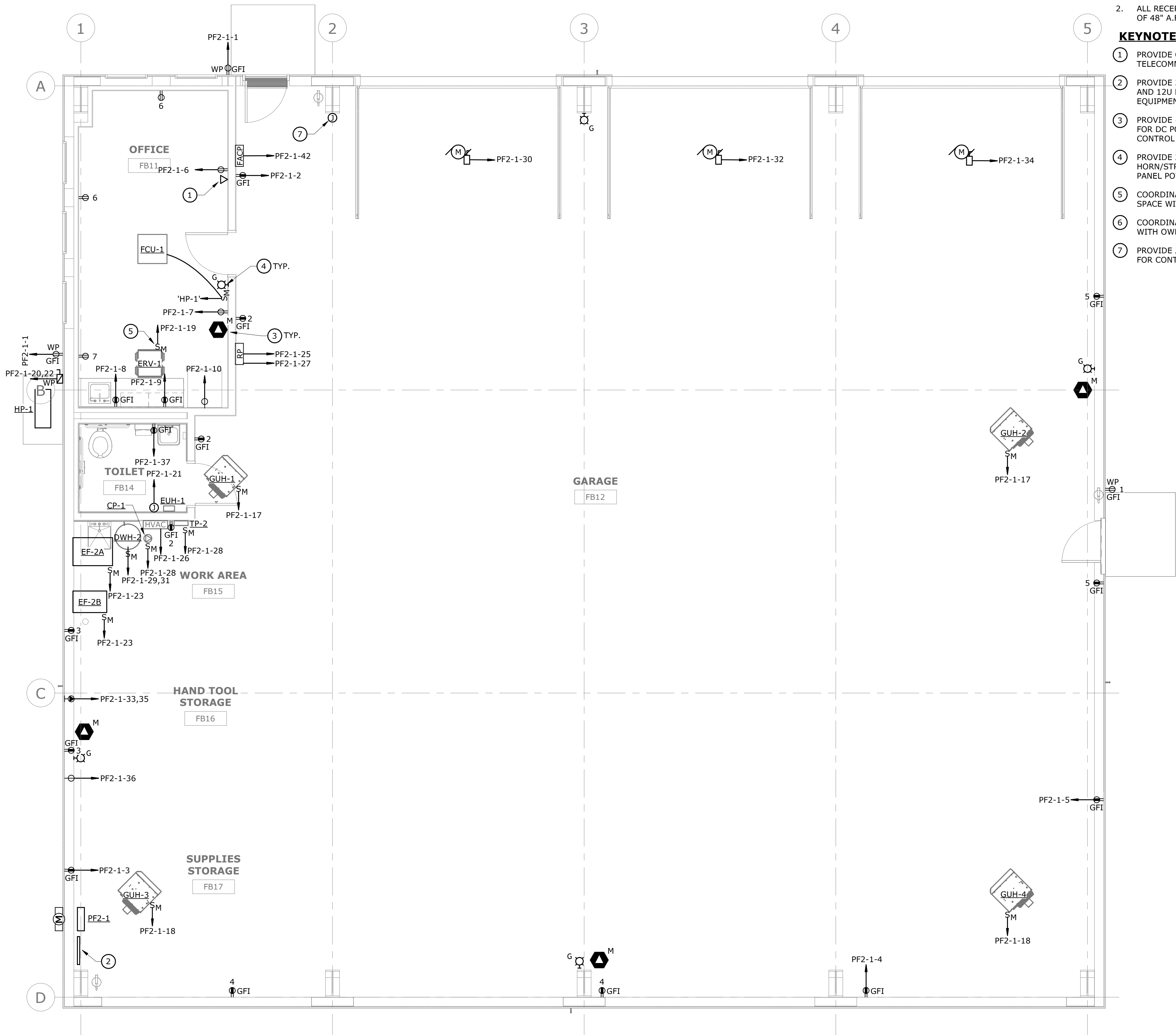
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PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-E-211	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

**ELECTRICAL POWER
CONCESSIONS BUILDING
FLOOR PLAN**

SCALE: AS SHOWN

E-211

Last Saved: 1/9/2026 4:03:44 PM
Project: 1/9/2026 4:03:44 PM
Tighe & Bond - Architect/Engineers/05085-001 Dover High School/05085-001 Dover HS Athletics Buildings_MEP R25.rvt
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ELECTRICAL POWER FACILITIES BUILDING FLOOR PLAN

SCALE: 1/4" = 1'-0"

0 1 2' 4' 8'
SCALE: 1/4"=1'-0"

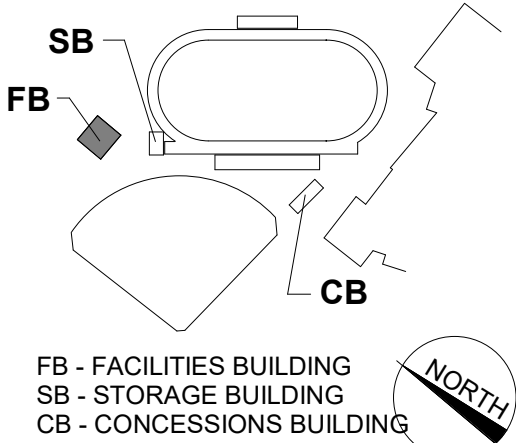
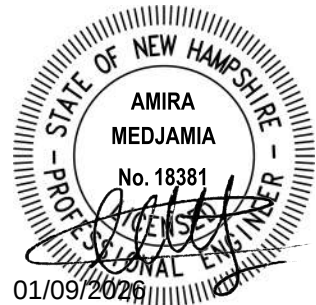
GENERAL NOTES:

1. REFER TO PANEL SCHEDULES FOR CONDUIT, AND WIRING INFORMATION.
2. ALL RECEPTACLES WITHIN THE GARAGE AREA SHALL BE MOUNTED A MINIMUM OF 48" A.F.F.

KEYNOTES:

- ① PROVIDE CAT6 CABLE AND 3/4" CONDUIT TO ELECTRICAL TELECOMMUNICATIONS BACKBOARD, TYPICAL FOR ALL DATA OUTLETS.
- ② PROVIDE 24"x24" FIRE RETARDANT TELECOMMUNICATIONS BACKBOARD AND 12U DATA RACK FOR FUTURE UTILITY SERVICE ENTRANCE EQUIPMENT.
- ③ PROVIDE #18/4 TSP CABLE IN 3/4"C TO EACH GAS DETECTION SENSOR FOR DC POWER AND 4-20mA SIGNAL FROM GAS DETECTION RELAY CONTROL PANEL. MODEL: MACURCO CX-6 OR APPROVED EQUAL.
- ④ PROVIDE 2#14 & 1#14GND IN 3/4"C TO EACH GAS DETECTION HORN/STROBE FOR DC POWER FROM GAS DETECTION RELAY CONTROL PANEL POWER SUPPLY AND HORN/STROBE SYNC MODULE.
- ⑤ COORDINATE FINAL LOCATION OF MOTOR RATED SWITCH ABOVE CEILING SPACE WITH ABOVE CEILING ACCESS PANEL LOCATION IN THIS AREA.
- ⑥ COORDINATE FINAL LOCATION OF COMPRESSOR AND WELDER LOCATION WITH OWNER AND OWNERS REPRESENTATIVE.
- ⑦ PROVIDE JUNCTION BOX AND 3#12, TO EACH GARAGE DOOR OPERATOR FOR CONTROL WIRING PER MANUFACTURERS INSTRUCTIONS.

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**Dover High
School Athletic
Facility Project**

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-E-221	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

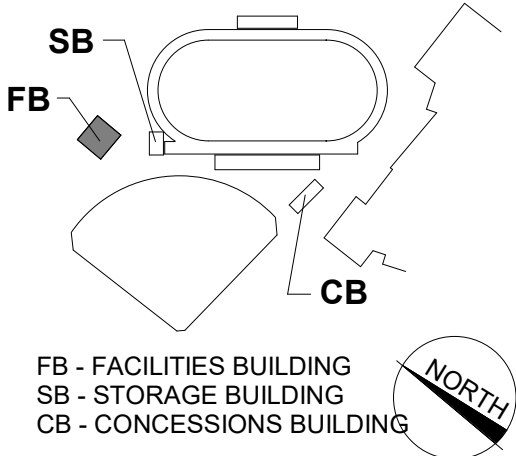
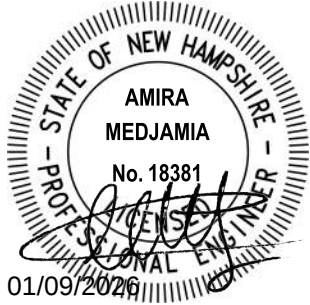
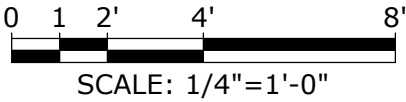
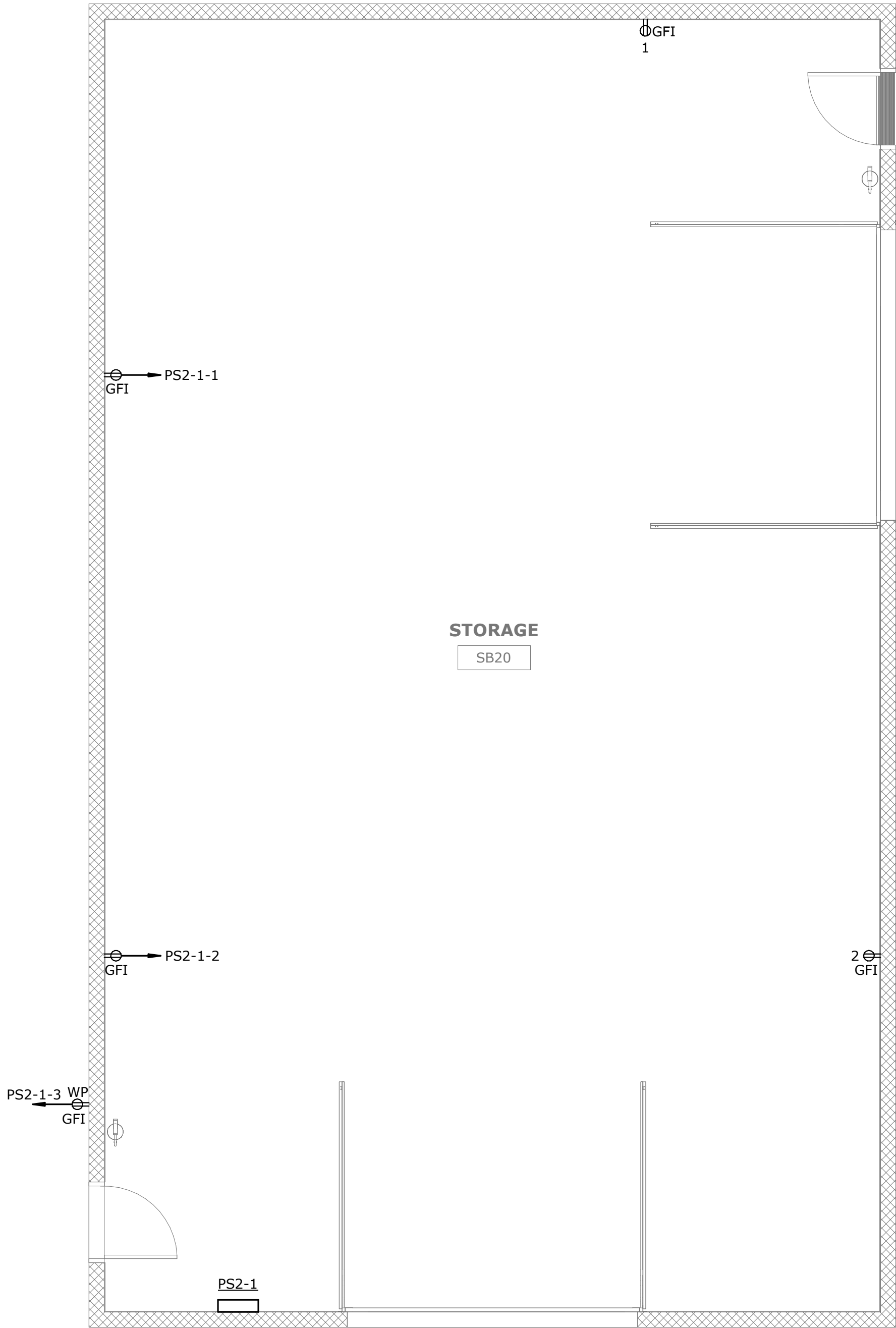
**ELECTRICAL POWER
FACILITIES BUILDING
FLOOR PLAN**

SCALE: AS SHOWN

E-221

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Tighe & Bond - Electrical - Dover High School / D5085-001
B:\1_06\PERSECHINO\Tighe & Bond - Electrical - Dover High School / D5085-001_24-228 Dover HS Athletics Buildings_MEP R25.rvt

- GENERAL NOTES:**
- REFER TO PANEL SCHEDULES FOR CONDUIT, AND WIRING INFORMATION.



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Facility Project**

Dover School
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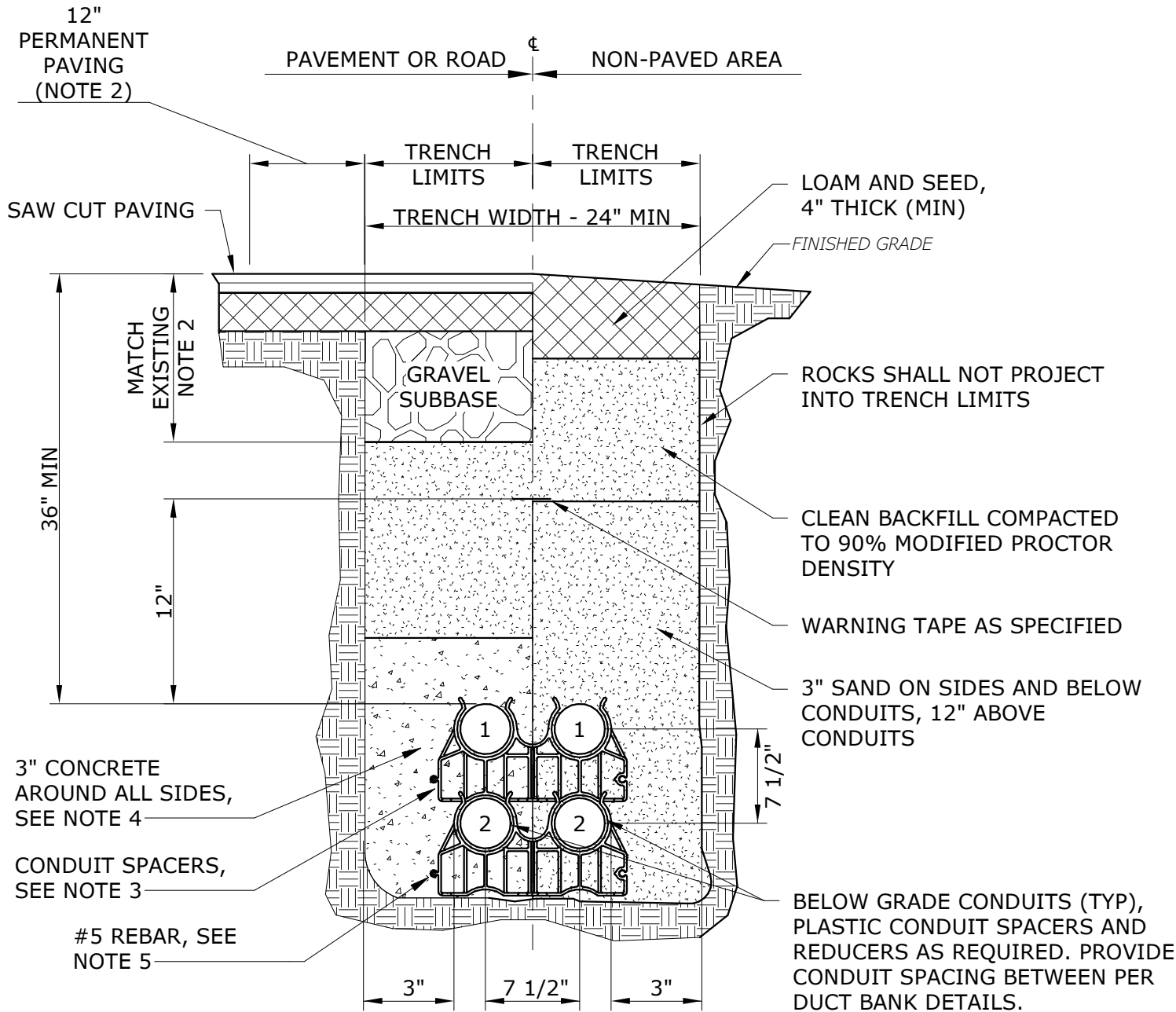
25 Alumni Drive
Dover, New Hampshire

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DATE:	12/12/2025	
FILE:	D5085-0001-E-231	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

**ELECTRICAL POWER
STORAGE BUILDING FLOOR
PLAN**

SCALE: AS SHOWN

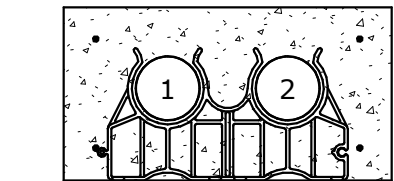
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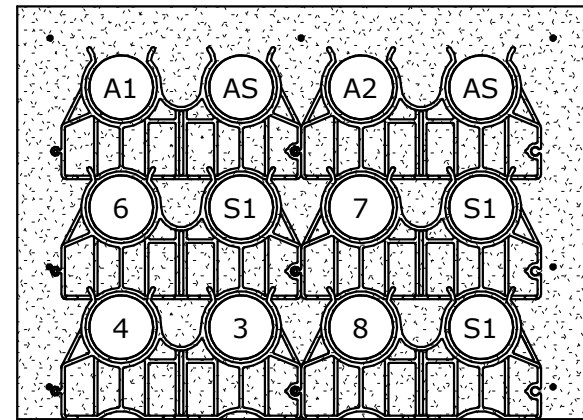
DUCTBANK NOTES:

- REFER TO ELECTRICAL SITE PLAN AND DUCT BANK DETAILS FOR SPECIFIC REQUIREMENTS. (TYP FOR ALL DUCT BANK TRENCHES)
- MIN OF 1.5" HMA TOP COURSE PAVEMENT, 2.5" HMA BINDER COURSE, AND 12" GRAVEL SUBBASE.
- E.C. SHALL PROVIDE CONDUIT SPACERS 5'-0" ON CENTER, AS MANUFACTURED BY UNDERGROUND DEVICES.
- CONCRETE SHALL BE PRE-MIX 4,000 P.S.I. 6" SLUMP LEAN CONCRETE, WITH CONCRETE BY ELECTRICAL CONTRACTOR.
- #5 REBAR SHALL BE PLACED CONTINUOUS ALONG DUCTBANK (MINIMUM OF 4), WITH A MINIMUM 3" COVER ALONG BOTTOM SIDE, AND 3" COVER ALONG REMAINING THREE SIDES.
- MAINTAIN 3" MIN SPACING BETWEEN CONDUITS OF THE SAME SYSTEM (POWER, DATA/SECURITY)
- MAINTAIN MINIMUM 1' SEPARATION BETWEEN POWER AND DATA/SECURITY CONDUITS.
- MAINTAIN MINIMUM 1' SEPARATION BETWEEN ALL ELECTRICAL CONDUIT AND OTHER UNDERGROUND SYSTEMS.

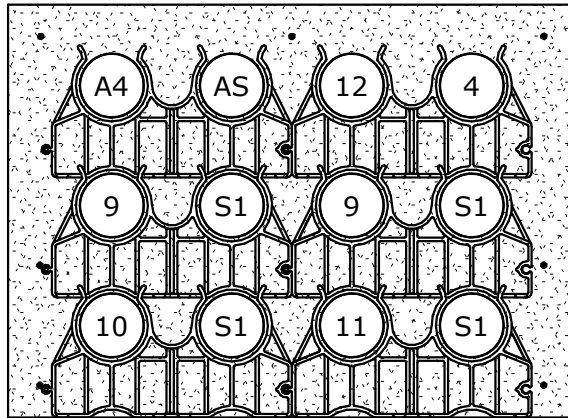
TYPICAL CONDUIT TRENCH DETAIL
NO SCALE



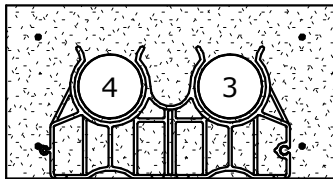
ELECTRICAL 12.47KV SERVICE
DUCTBANK A1-A1
NO SCALE



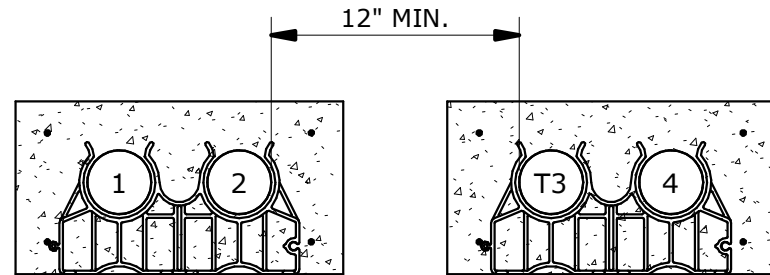
DUCTBANK A3-A3
NO SCALE



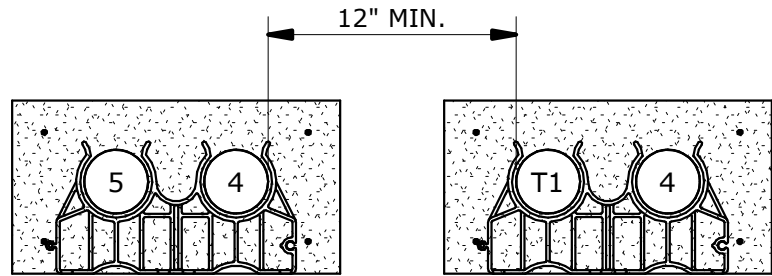
DUCTBANK A2-A2
NO SCALE



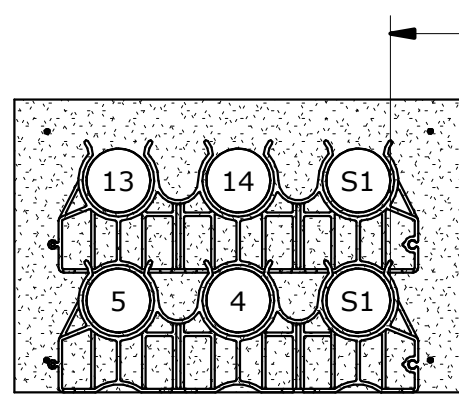
ELECTRICAL 480V SERVICE
DUCTBANK A4-A4
NO SCALE



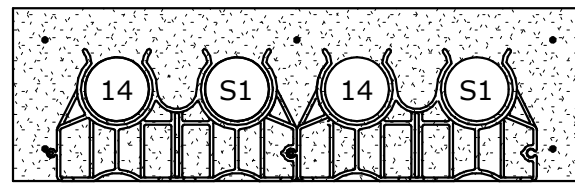
ELECTRICAL 12.47KV SERVICE
DUCTBANK B1-B1
NO SCALE



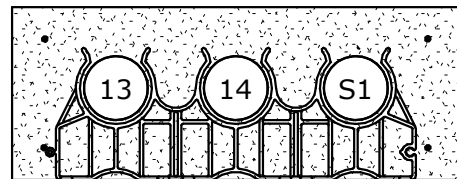
ELECTRICAL 208V SERVICE
DUCTBANK B2-B2
NO SCALE



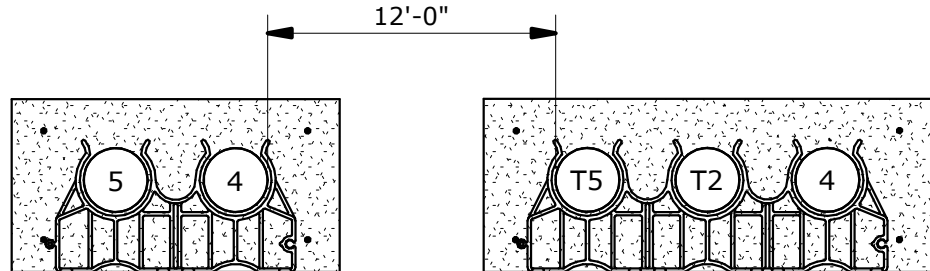
DUCTBANK B3-B3
NO SCALE



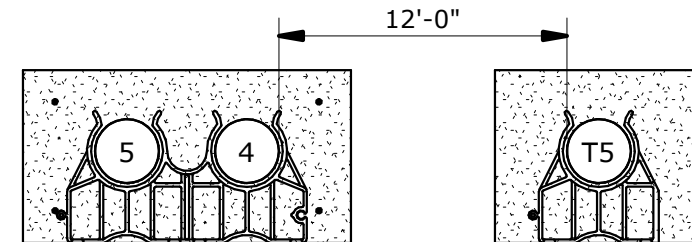
DUCTBANK B4-B4
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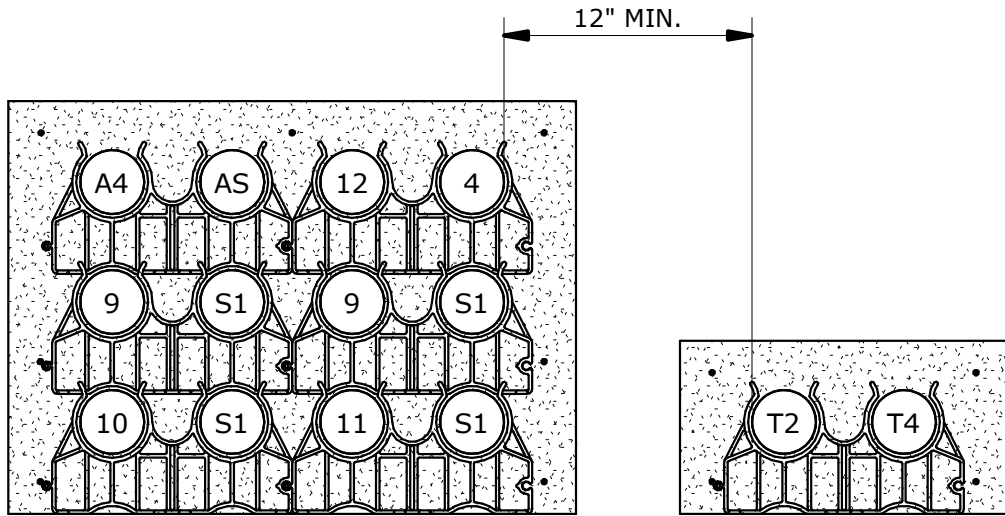
DUCTBANK B5-B5
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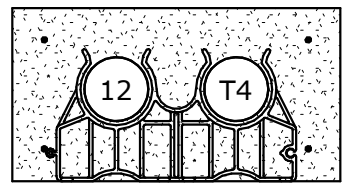
DUCTBANK B6-B6
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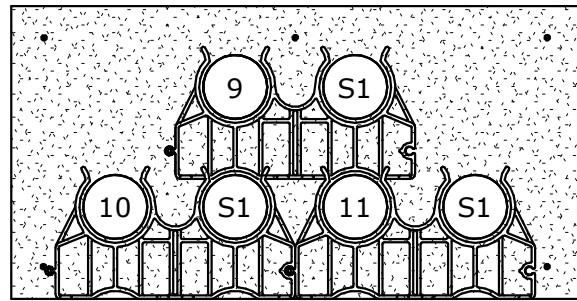
DUCTBANK B7-B7
NO SCALE



DUCTBANK C1-C1
NO SCALE



DUCTBANK C2-C2
NO SCALE



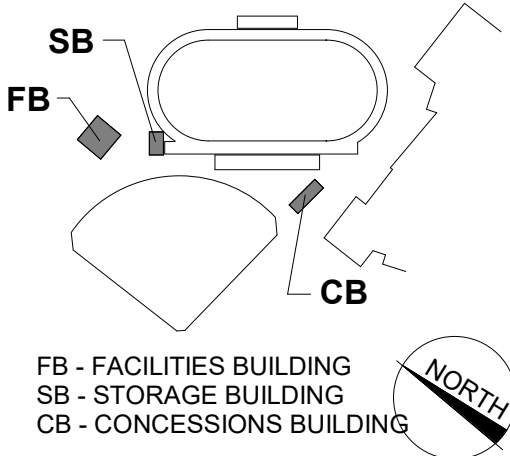
DUCTBANK C3-C3
NO SCALE

DUCTBANK SECTION CONDUIT SCHEDULE:

- 5" PVC - 12.47KV UTILITY SERVICE
- 5" PVC - SPARE
- 4" PVC - 480V UTILITY POWER
- 4" PVC - SPARE
- 4" PVC - 208/120V SECONDARY POWER
- 1" PVC - 120V POWER FOR BASEBALL FIELD PITCHER, MOUND, AND DUGOUTS POWER
- 1" PVC - 120V POWER FOR ACCESS WALK PATH LIGHTING
- 1" PVC - 120V POWER FOR BATTING CAGES
- 1-1/4" PVC - 480V POWER FOR FOOTBALL/TRACK/BLEACHER LIGHTING (SPL-1, -2, -3, -4)
- 1" PVC - 120V POWER TO BASEBALL AND FOOTBALL SCOREBOARDS AND FLAGPOLE LIGHT
- 1" PVC - 120V POWER TO TURF POWER BOXES
- 2-1/2" PVC - 120/208V POWER TO PRESS BOX
- 1" PVC - CONDUITS FOR FUTURE EV CHARGING
- 1" PVC - 120V POWER FOR SITE LIGHTING
- 1" PVC - REFER TO SITE PLAN FOR EQUIPMENT TO BE POWERED
- 1" PVC - SPARE
- 4" PVC - (3) 1-1/4" INNER DUCTS FOR FIBER FROM EXISTING MDF ROOM AND FIRE ALARM PANEL TO CONCESSIONS BUILDING
- 4" PVC - (3) 1-1/4" INNER DUCTS FOR FIBER FROM CONCESSIONS BUILDING TO FACILITIES BUILDING
- 4" PVC - SPARE FOR FUTURE TELECOMMUNICATIONS
- 4" PVC - (3) 1-1/4" INNER DUCTS FOR FIBER FROM CONCESSIONS BUILDING TO PRESSBOX
- 1"PVC - FIRE ALARM CABLE TO SMOKE DETECTORS IN STORAGE BUILDING

ALTERNATE BID DUCT BANK SECTION CONDUIT SCHEDULE:

- 1-1/2" PVC - 480V POWER FOR BASEBALL FIELD LIGHTING (SPL-A1, -A2, -A3, -A4)
- 1" PVC - 120V POWER FOR PITCHING MACHINE AT BATTING TUNNELS
- 1"C PVC - POWER IN FOR INDIVIDUAL EQUIPMENT AND POWER OUT FOR NEXT EQUIPMENT ON SAME CIRCUIT, REFER TO A1 AND A2 AND ELECTRICAL SITE PLAN FOR LOAD
- 1"C PVC - SPARE
- 1" PVC - 480V POWER FOR BASEBALL FIELD LIGHTING (SPL-A5, SPL-4 BASE BID POLE WITH ADD ALT LUMINAIRES)



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Dover High
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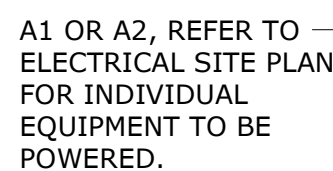
Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

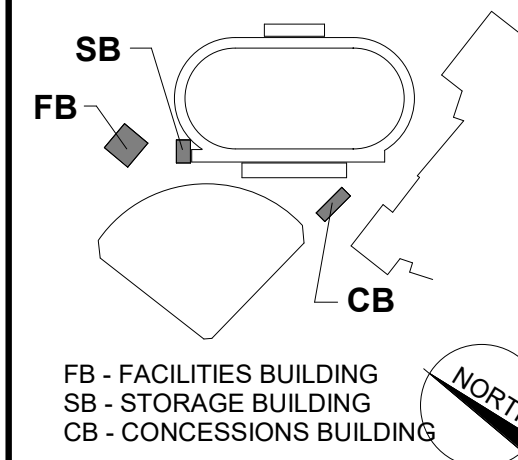
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DATE:	12/12/2025	
FILE:	D5085-0001-E-301	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

ELECTRICAL DUCTBANK
SECTIONS

SCALE: NO SCALE



- (A1) 1-1/2" PVC - 480V POWER FOR BASEBALL FIELD LIGHTING (SPL-A1, -A2, -A3, -A4)
- (A2) 1" PVC - 120V POWER FOR PITCHING MACHINE AT BATTING TUNNELS
- (A3) 1"C PVC - POWER IN FOR INDIVIDUAL EQUIPMENT AND POWER OUT FOR NEXT EQUIPMENT ON SAME CIRCUIT, REFER TO A1 AND A2 AND ELECTRICAL SITE PLAN FOR LOAD
- (A5) 1"C PVC - SPARE
- (A4) 1" PVC - 480V POWER FOR BASEBALL FIELD LIGHTING (SPL-A5, SPL-4 BASE BID POLE WITH ADD ALT LUMINAIRES)



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[illegible]

SCALE:	NO SCALE
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1. EVERSOURCE SHALL DESIGNATE CONDUIT RISER LOCATIONS ON THE POLE. ALL PRIMARY RISERS SHALL BE GALVANIZED STEEL, THIS INCLUDES THE 90 DEGREE SWEEP. PER NESC ALL STEEL RISERS MUST BE BONDED 6" FROM TOP AND THE BOND MUST BE AT LEAST 8' HIGH FROM FINISHED GRADE.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE BOND CLAMPS AND THE TAP. THE EVERSOURCE WILL MAKE THE BOND CONNECTION FROM THAT RISER BOND TAP TO THE GROUND SYSTEM ON THE POLE.



1. RISER PIPE IS TO BE LOCATED ON FIELD QUARTER AWAY FROM TRAFFIC.
2. INSTALL SPARE RISER THROUGH THE SWEEP AND TERMINATE AT BASE OF POLE WITH A COUPLING AND CONDUIT PLUG. GROUND THE SPARE SWEEP.
3. APPROVED MATERIALS LIST SHALL BE PROVIDED BY EVERSOURCE.
4. RISER SWEEP IN DIRECT BURIED APPLICATION SHALL BE ENCASED IN CONCRETE.
5. EVERSOURCE SOUTH AREAS ONLY - #2 BARE COPPER WIRE (DIRECT BURIED COUNTERPOISE) SHALL CONNECT RISER POLE GROUND TO THE FIRST PAD/SWITCH/MANHOLE GROUNDING RING.
6. EXOTHERMIC CONNECTIONS (CADWELD) ARE ACCEPTABLE FOR BURIED CONNECTIONS.

TRENCHES SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS SET (FOR AT LEAST FOUR HOURS) AND UNTIL AFTER APPROVAL BY AUTHORIZED EVERSOURCE PERSONNEL. ALL BACKFILL SHALL BE SAND OR GRAVEL CONTAINING STONES LESS THAN 1" IN ANY DIMENSION. BACKFILLING SHALL NOT TAKE PLACE OVER ANY OPEN- ENDED (UNPLUGGED) CONDUITS. EVERSOURCE APPROVED RED "WARNING" TAPE SHALL BE INSTALLED DIRECTLY ABOVE THE EVERSOURCE'S CABLE EIGHT TO TWELVE INCHES BELOW FINISHED GRADE. LAYING THE WARNING TAPE DIRECTLY ON THE CABLE, CONCRETE OR CONDUIT IS NOT ACCEPTABLE. CERTAIN INSTALLATIONS IN THE PUBLIC WAY MAY REQUIRE FLOWABLE FILL INSTEAD IN PLACE OF NORMAL BACKFILL.



1. CONTRACTOR IS RESPONSIBLE TO OBTAIN EVERSOURCE APPROVAL BEFORE BACKFILLING CONDUIT AND PRECAST PAD.

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCHING, EXCAVATING, BACKFILLING, AND INSTALLATION OF THE PRIMARY DUCT SYSTEM.
2. CONCRETE ENCASEMENT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS SPECIFIED BY EVERSOURCE.
3. THE MINIMUM SIZE CONDUIT SHALL BE 4". ALL SWEEPS AT FOUNDATIONS AND RISERS SHALL HAVE A MINIMUM RADIUS OF THIRTY-SIX INCHES (36"). THE RISER SWEEP SHALL BE GALVANIZED STEEL. THE PAD MOUNT TRANSFORMER SHALL BE GALVANIZED RIGID STEEL. WITH THE TRANSFORMER SWEEPS RISING TYPICALLY 1" ABOVE THE CONCRETE PAD. THE ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT PLUGS IN ALL UNUSED CONDUITS SAND PULLING TAPE. AT THE RISER POLE, THE GALVANIZED RIGID STEEL SWEEPS AND THE PVC/STEEL ADAPTORS SHALL NOT BE CONCRETE ENCASED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL RIGID GALVANIZED STEEL STRAIGHT CONDUIT UP THE POLE HIGH ENOUGH TO MEET THE NESC CODE REFERENCED ON THE RISER POLE REQUIREMENTS, INCLUDING CONDUIT GROUND STRAPS, UP THE RISER POLE.

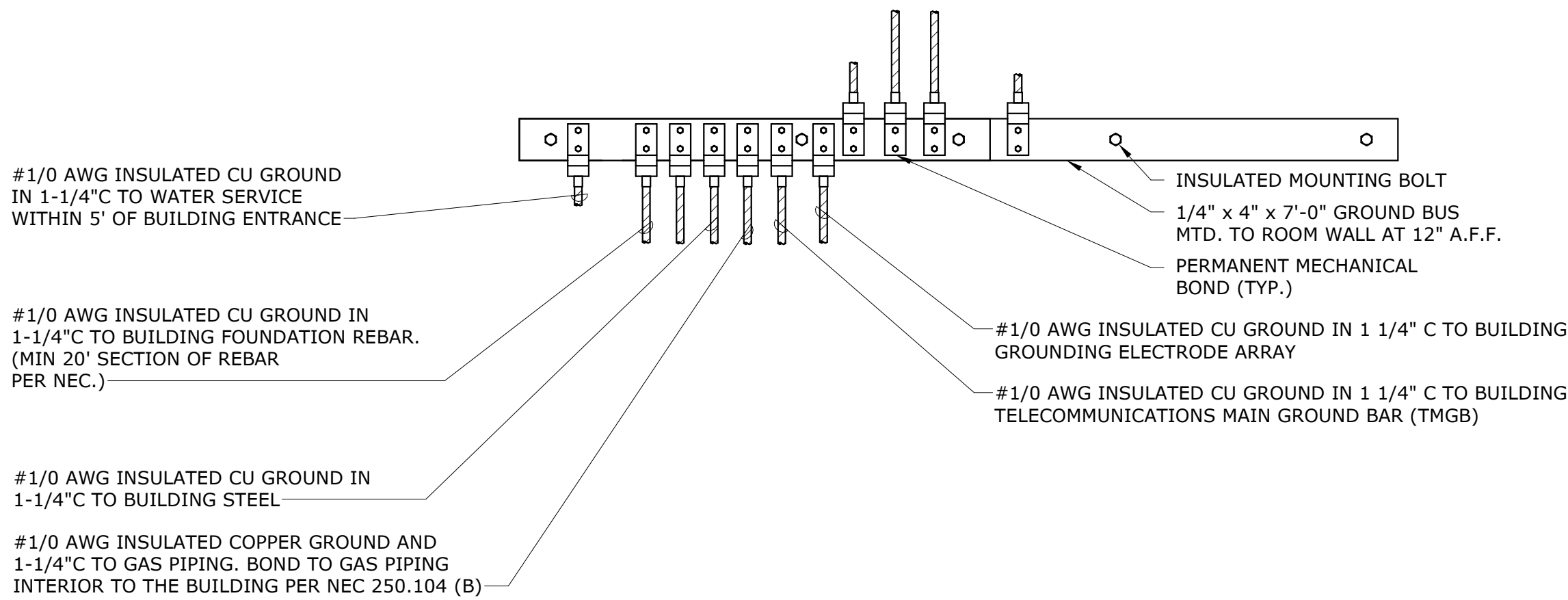
* ALL REFERENCED PAGE NUMBERS ARE FROM THE EVERSOURCE 2008 UCD INSTALLATION AND UTILITY GUIDE.

THE INSPECTION SHALL NOT BE LIMITED TO THE ABOVE.

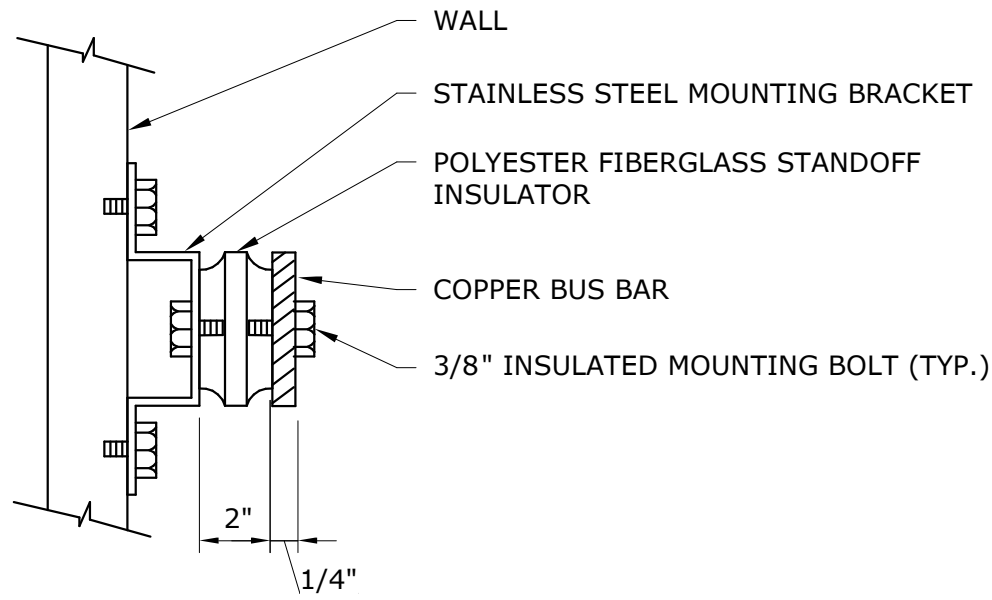


E-501

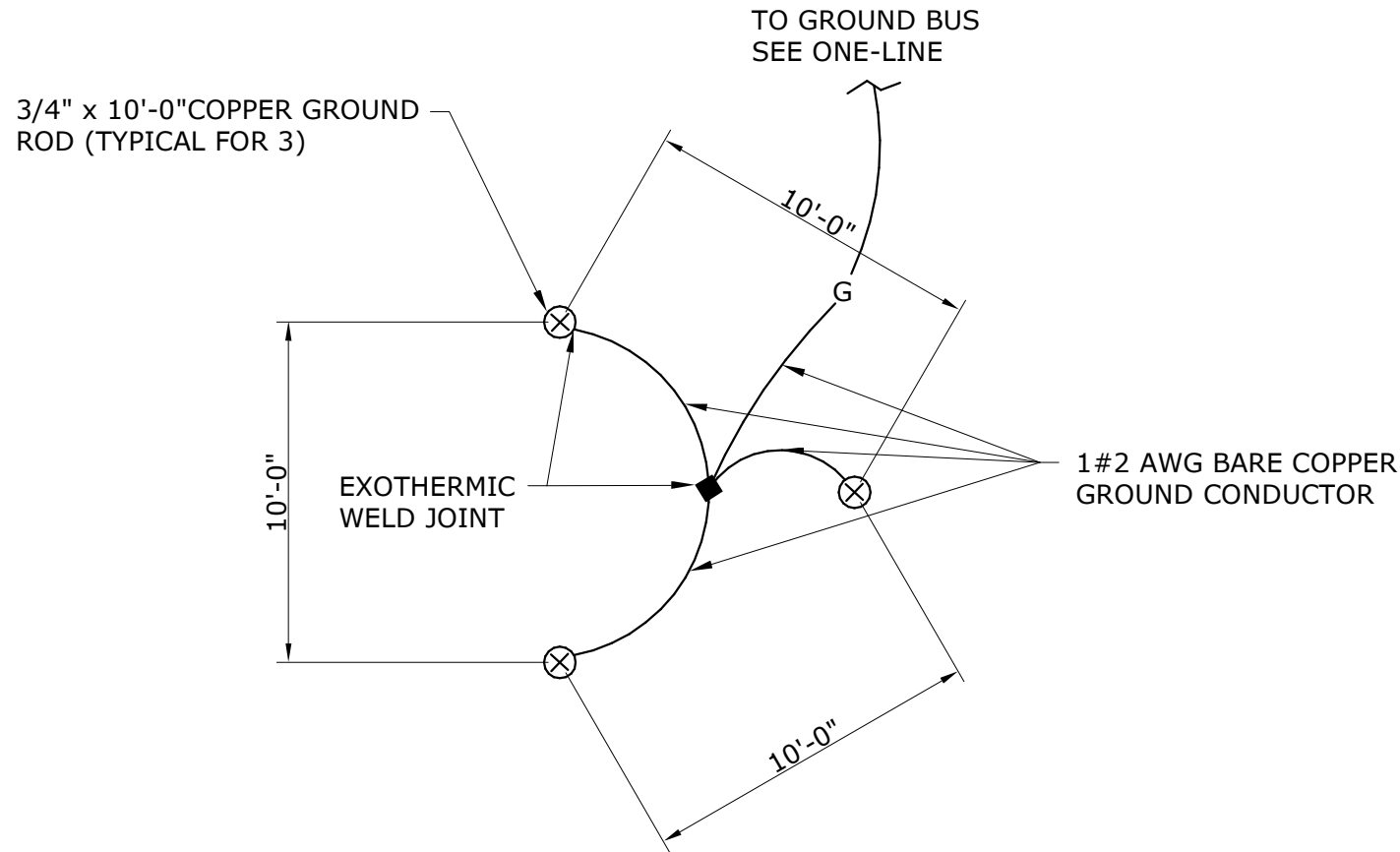
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Title & Content: Address: 25 Alunni Drive, Dover High School / 05085-001_24-228 Dover HS Athletics Buildings_ MEP R25.rvt



BUILDING ELECTRICAL GROUND BUS DETAIL
NO SCALE



TYPICAL GROUNDING BUS
NO SCALE



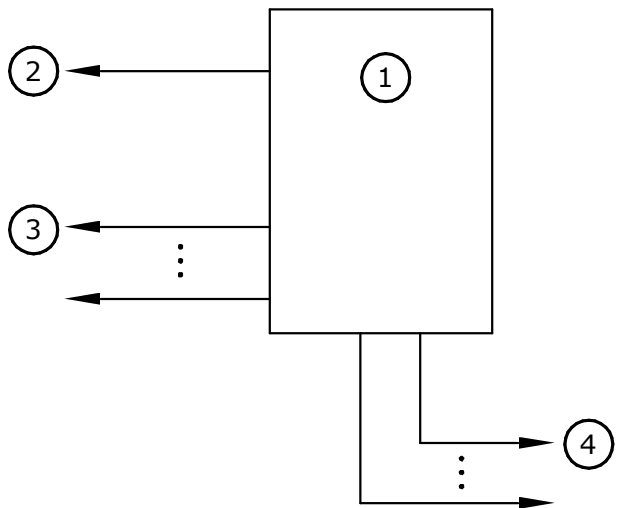
GROUNDING TRIAD - SINGLE SERVICE
NO SCALE

LUMINAIRE SCHEDULE								
TYPE	FIXTURE DESCRIPTION	MANUFACTURER DATA		LAMP DATA				
		BASIS OF DESIGN MANUFACTURER	CATALOG NUMBER	WATTS	LUMEN	TYPE	K	VOLT
SPL-1	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(8 AT 80') TLC-LED-1500 & (2 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	11680	VARIED	LED	57	480V, 3PH
SPL-2	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(8 AT 80') TLC-LED-1500 & (2 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	11680	VARIED	LED	57	480V, 3PH
SPL-3	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(9 AT 100') TLC-LED-1500 & (1 AT 70') TLC-LED-550 & (2 AT 28') TLC-BT-575, 100' STRUCTURE & MOUNT HARDWARE	15730	VARIED	LED	57	480V, 3PH
SPL-4	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(9 AT 100') TLC-LED-1500 & (1 AT 70') TLC-LED-550 & (2 AT 28') TLC-BT-575, 100' STRUCTURE & MOUNT HARDWARE	15730	VARIED	LED	57	480V, 3PH
SP-1	AREA SITE LUMINAIRE WITH INTEGRAL DIMMING/MOTION/DAYLIGHT	BEACON	VP-ST-1-36L-85-4K7-2-UNV-AX-CXX-7PR-TL-ADT, 22.5' POLE & MOUNT HARDWARE	85	10000	LED	40	120V, 1PH
SP-2	AREA SITE LUMINAIRE WITH INTEGRAL DIMMING/MOTION/DAYLIGHT	BEACON	VP-ST-1-36L-85-4K7-4F-UNV-AX-CXX-7PR-TL-ADT, 22.5' POLE & MOUNT HARDWARE	85	10000	LED	40	120V, 1PH
SP-3	AREA SITE LUMINAIRE WITH INTEGRAL DIMMING/MOTION/DAYLIGHT	BEACON	(2) VP-ST-1-36L-85-4K7-4F-UNV-AX-CXX-7PR-TL-ADT, 22.5' POLE & MOUNT HARDWARE	85	10000	LED	40	120V, 1PH
SPL-6	POLE MOUNTED PATH LUMINAIRE	SELUX CORP	SACL-R5R-1-5G450-40-XX-SP-UNV-DS-DMA35-12-BC1, 12' POLE	39	4442	LED	40	120V, 1PH
P1	PENDANT MOUNT LINEAR FIXTURE (10' AFF)	LITHONIA	MLX-L4-4000LM-80-40-WGDL-MD-MVOLT-MIN10-MVOLT-WH-ZACVHM100	25	4022	LED	40	120V, 1PH
P1E	PENDANT MOUNT LINEAR FIXTURE / BATTERY BACKUP (10' AFF)	LITHONIA	MLX-L4-4000LM-80-40-WGDL-MD-MVOLT-MIN10-MVOLT-WH-ZACVHM100-E10W	25	4022	LED	40	120V, 1PH
P2	ENCLOSED & GASKETED PENDANT MOUNT (13' AFF)	LITHONIA	FEM-48-6000LM-LPACL-MD-MVOLT-40K-80-DPMB + AIRCRAFT CABLE/CHAIN	24	4116	LED	40	120V, 1PH
P2E	ENCLOSED & GASKETED PENDANT MOUNT / BATTERY BACKUP (13' AFF)	LITHONIA	FEM-48-6000LM-LPACL-MD-MVOLT-40K-80-DPMB-E7W2H + AIRCRAFT CABLE/CHAIN	34	4116	LED	40	120V, 1PH
SL1	SURFACE MOUNT LINEAR	LITHONIA	CLX-L48-3000LM-SEF-L-MVOLT-40-80	32	3000	LED	40	120V, 1PH
SL2	SURFACE MOUNT LINEAR WRAPAROUND - LOW PROFILE	LITHONIA	BLWP4-30L-ADPT-LP830-MSD7ADCX	37	3923	LED	40	120V, 1PH
SL2E	SURFACE MOUNT LINEAR WRAPAROUND - LOW PROFILE/ BATTERY	LITHONIA	BLWP4-30L-ADPT-LP830-MSD7ADCX-E10WLCP	47	3923	LED	40	120V, 1PH
R1	RECESSED ROUND 5" DOWNLIGHT	JUNO	JPDZ5-DB-AL010-SWW5WD-90CRI-MVOLT-WWH	16	1000	LED	30	120V, 1PH
WL1	WALLMOUNT EXTERIOR WALLPACK	LITHONIA	WDGE2LED-P4-40K-80CRI-VW-MVOLT-SRM-PE-DBLXD	35	4526	LED	40	120V, 1PH
WL1E	WALLMOUNT EXTERIOR / BATTERY BACKUP	LITHONIA	WDGE2LED-P2-40K-80CRI-VF-MVOLT-SRM-PE-DBLXD-E10WH	25	2023	LED	40	120V, 1PH
EBU	REMOTE HEADS / BATTERY BACKUP	LITHONIA	ELMRE-LP220L-T	4	110	LED	-	120V, 1PH
EX	EXIT SIGN	LITHONIA	LV-S-1/2-R-120/277-UM-DL & 4X (FACILITY BLDG)	4.6	-	LED	-	120V, 1PH

LUMINAIRE SCHEDULE
SCALE: NO SCALE

LUMINAIRE SCHEDULE								
TYPE	FIXTURE DESCRIPTION	MANUFACTURER DATA		LAMP DATA				
		BASIS OF DESIGN MANUFACTURER	CATALOG NUMBER	WATTS	LUMEN	TYPE	K	VOLT
SPL-A1	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(6 AT 80') TLC-LED-1500 & (2 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	11680	VARIED	LED	57	480V, 3PH
SPL-A2	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(4 AT 80') TLC-LED-1200 & (1 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	5250	VARIED	LED	57	480V, 3PH
SPL-A3	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(4 AT 80') TLC-LED-1200 & (1 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	5250	VARIED	LED	57	480V, 3PH
SPL-A4	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(6 AT 80') TLC-LED-1500 & (2 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	15730	VARIED	LED	57	480V, 3PH
SPL-A5	POLE MOUNTED LED SPORT LIGHTING STRUCTURE SYSTEM	MUSCO	(4 AT 80') TLC-LED-1500 & (2 AT 16') TLC-BT-575, 80' STRUCTURE & MOUNT HARDWARE	9250	VARIED	LED	57	480V, 3PH
SPL-4	LUMINAIRES ONLY - MOUNTED ON BACK OF BASE BID POLE	MUSCO	(4 AT 100') TLC-LED-1500 & (2 AT 28') TLC-BT-575, MOUNT HARDWARE	8170	VARIED	LED	57	480V, 3PH

BID ALTERNATE LUMINAIRE SCHEDULE
SCALE: NO SCALE



FIELD LIGHTING CONTROL DIAGRAM
SCALE: NO SCALE

KEYNOTES:

- 1 PROVIDE NEMA 3R LIGHTING CONTROL AND MONITORING CABINET WITH MOUNTING STRUCTURE. REFER TO STRUT MOUNTED EQUIPMENT DETAIL FOR FURTHER INFORMATION.
- 2 PROVIDE 120V, 20A CIRCUIT FOR CONTROL POWER. REFER TO PANELBOARD SCHEDULE FOR FURTHER INFORMATION.
- 3 PROVIDE (11) 480V CIRCUITS FOR LINE POWER TO LIGHTING CONTACTORS. ONE CIRCUIT PER LIGHTING CONTACTOR IS REQUIRED, REFER TO PANELBOARD SCHEDULE FOR FURTHER INFORMATION.
- 4 PROVIDE (5) 480V CIRCUITS FOR LOAD POWER TO LIGHTING CIRCUITS:

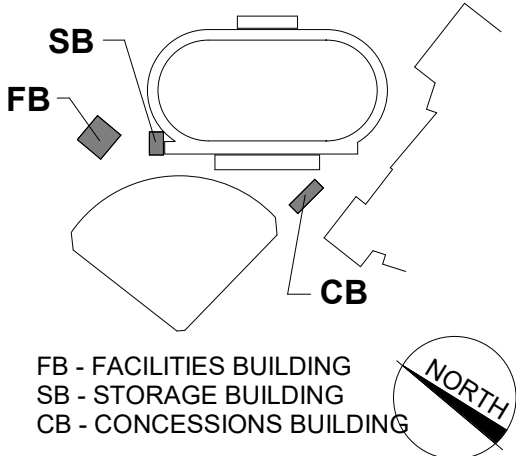
2" PVC CONDUIT: 3#4, 1#4G (SPL-1) & 3#6, 1#6G (SPL-4)
2" PVC CONDUIT: 3#4, 1#4G (SPL-2) & 3#6, 1#6G (SPL-3)
1" PVC CONDUIT: 3#12, 1#12G (F3/F4 - 70' MOUNTED LUMINAIRES)

ALTERNATE BID:

IN ADDITION TO THE ABOVE (5) CIRCUITS PROVIDE THE FOLLOWING
(6) 480V CIRCUITS FOR LOAD POWER:

1-1/2" PVC CONDUIT: 3#8, 1#8G (SPL-A2) & 3#8, 1#8G (SPL-A4)
1-1/2" PVC CONDUIT: 3#8, 1#8G (SPL-A1) & 3#8, 1#8G (SPL-A3)
1-1/2" PVC CONDUIT: 3#10, 1#10G (SPL-A5) & 3#10, 1#10G (SPL-4)

REFER TO LIGHTING FIXTURE SCHEDULE FOR LUMINAIRE IDENTIFICATION TAGS. COMBINED CIRCUITS IN CONDUIT HAVE BEEN DERATED FOR MORE THAN 3 CURRENT CARRYING CONDUCTORS AND VOLTAGE DROP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR REVIEW FOR ANY DEVIATION OF CONDUIT AND/OR CIRCUIT SIZES FROM COMBINATIONS SHOWN ABOVE. , TYPICAL FOR ALL BASE AND ALTERNATE BID LUMINAIRE CIRCUITS.



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**Dover High
School Athletic
Facility Project**

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-E-502	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

ELECTRICAL DETAILS

SCALE: NO SCALE

		VOLTAGE (L-L): 208 PHASE: 3 WIRE: 4					VA, L1		15,846		PANEL NO. PC2-1					
		VOLTAGE (L-N): 120					VA, L2		11,646							
		MAIN BUS: 125 AMPS					VA, L3		11,506		LOCATION: CONCESSIONS BLDG. ELEC. RM					
		MAIN BREAKER: 125 A FRAME 125 A TRIP									NOTES: PROVIDE CONDUIT AND CIRCUIT BREAKER FOR FUTURE LOADS					
		MOUNTING: SURFACE KAIC: 22					TOTAL VA		38,998							
		INCOMING FEEDER SIZE:					REFER TO ONE-LINE DIAGRAM									
WIRE SIZE	CONDUIT SIZE	DIRECTORY	VA LOAD			CKT.	AMPS	AMPS	CKT.	VA LOAD			DIRECTORY	CONDUIT SIZE	WIRE SIZE	
			L1	L2	L3					L1	L2	L3				
2#12 & 1#12G	3/4"	CONCESSION RECPT #1	360			1	20	20	2	360			CONCESSION RECPT #2	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	CONCESSION RECPT #3		360		3	20	20	4		360		CONCESSION RECPT #4	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	CONCESSION RECPT #5			360	5	20	20	6			360	*FRIDGE RECPT	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	*ISLAND FRIDGE #1	600			7	20	20	8	600			*ISLAND FRIDGE #2	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	EXTERIOR RECPT		540		9	20	20	10		720		TOILET/JANITOR GFI	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	*WATER BOTTLE REFILLER			900	11	20	20	12			240	CONCESSION LIGHTS	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	MENS RESTROOM LIGHTS	600			13	20	20	14	800			WOMENS RESTROOM LIGHTS	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	UTILITY ROOMS LIGHTS		300		15	20	20	16		1,440		EF-1A, 1B, 1C	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	ELEC RM QUAD RECPT			360	17	20	20	18			360	UNISEX/STOR RECPT	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	TP-1 & CP-1	600			19	20	40	20	4,000			*HEAT TRACE	1"	2#8 & 1#10G	
-	-	SPARE		0		21	20	20	22		600		SITE LIGHTING SPL-6	1"	2#12 & 1#12G	
-	-	SPARE			0	23	20	20	24			0	SPARE	-	-	
-	-	DWH-1	7,926			25	80	20	26	0			SPARE	-	-	
-	-			7,926		27		20	28		0		SPARE	-	-	
-	-				7,926	29		20	30			0	SPARE	-	-	
-	-	SPARE	0			31	20	20	32	0			SPARE	-	-	
-	-	SPARE		0		33	20	20	34		0		SPARE	-	-	
-	-	SPARE			0	35	20	20	36			0	SPARE	-	-	
-	-	SPACE	-			37	-	-	38	-			SPACE	-	-	
-	-	SPACE		-		39	-	-	40	-			SPACE	-	-	
-	-	SPACE			-	41	-	20	42			1,000	FIRE ALARM	3/4"	2#12 & 1#12G	
		SUBTOTAL	10,086	9,126	9,546				5,760		3,120	1,960	SUBTOTAL			

		VOLTAGE (L-L): 208 PHASE: 3 WIRE: 4 VA, L1 720										PANEL NO. PS2-1			
		VOLTAGE (L-N): 120 VA, L2 660													
		MAIN BUS: 125 AMPS VA, L3 300										LOCATION: STORAGE BLDG. NOTES:			
		MAIN BREAKER: 100 A FRAME 100 A TRIP													
		MOUNTING: SURFACE kAIC: 22 TOTAL VA 1,680													
		INCOMING FEEDER SIZE: REFER TO ONE-LINE DIAGRAM													
WIRE SIZE	CONDUIT SIZE	DIRECTORY	VA LOAD			CKT.	AMPS	AMPS	CKT.	VA LOAD			DIRECTORY	CONDUIT SIZE	WIRE SIZE
			L1	L2	L3					L1	L2	L3			
2#12 & 1#12G	3/4"	RECPT #1	360			1	20	20	2	360			RECPT #2	3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	EXTERIOR RECEPT		360		3	20	20	4		300		LIGHTS #2	3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	LIGHTS #1			300	5	20	20	6		0		SPARE	-	-
-	-	SPARE	0			7	20	20	8	0			SPARE	-	-
-	-	SPARE		0		9	20	20	10	0			SPARE	-	-
-	-	SPARE			0	11	20	20	12		0		SPARE	-	-
		SUBTOTAL	360	360	300					360	300	0	SUBTOTAL		



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ELECTRICAL SCHEDULES

E-600

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By: C. NELSON
Tighe & Bond - Address Book: /D5085-001 Dover High School /D5085-001_24-228 Dover HS Athletics Buildings_MEP R25.rvt

GENERAL SYMBOLS

BOLD LINES AND TEXT INDICATE PROPOSED WORK

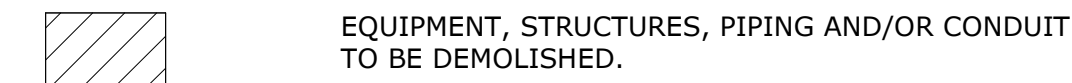
LIGHT LINES AND ITALIZED TEXT INDICATE APPROXIMATE EXISTING CONDITIONS



SECTION

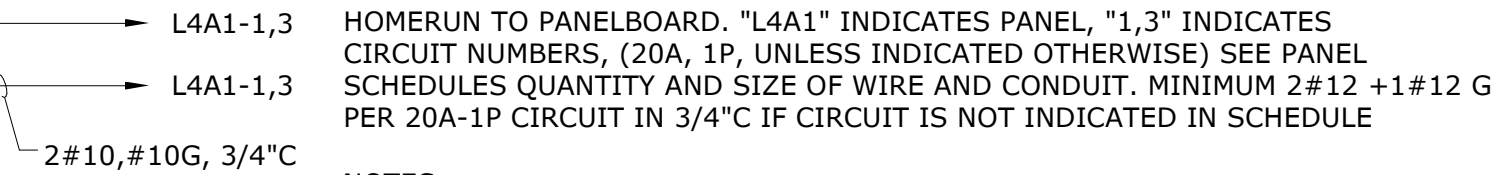


PHOTOGRAPH LOCATION



EQUIPMENT, STRUCTURES, PIPING AND/OR CONDUIT TO BE DEMOLISHED.

RACEWAYS AND WIRING



HOMERUN TO PANELBOARD. "L4A1" INDICATES PANEL, "1,3" INDICATES CIRCUIT NUMBERS, (20A, 1P, UNLESS INDICATED OTHERWISE) SEE PANEL SCHEDULES QUANTITY AND SIZE OF WIRE AND CONDUIT. MINIMUM 2#12 +1#12 G PER 20A-1P CIRCUIT IN 3/4"C IF CIRCUIT IS NOT INDICATED IN SCHEDULE

NOTES:

- GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
- HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE); (3) NEUTRALS AND GROUND CONDUCTORS IN EACH CONDUIT.

BRANCH CIRCUIT WIRING NOTES:

- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS

GENERAL FIRE ALARM NOTES

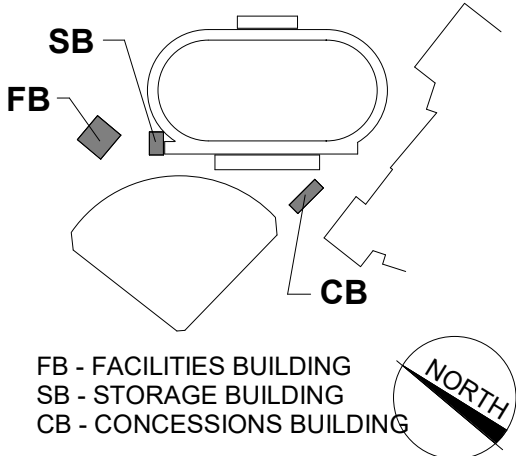
- ALL FIRE ALARM DEVICE TYPES SHALL MEET THE SPECIFICATIONS AND AREA CLASSIFICATION REQUIREMENTS.
- ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT.
- IN PROCESS AREAS WITH CEILING-MOUNTED DEVICES, LOCATE DEVICE IN THE BOTTOM OF THE JOIST. PROVIDE UNISTRUT TO SPAN JOIST WHERE DEVICE DOES NOT LAND ON JOIST.

FIRE ALARM

	MANUAL PULL STATION MOUNTED 48" AFF. "XP" INDICATES EXPLOSION PROOF, 'WP' INDICATES WEATHERPROOF
	ADA COMPLIANT AUDIO/VISUAL APPLIANCE MOUNTED 80" AFF. 'CD' INDICATES CANDELA RATING, "XP" INDICATES EXPLOSION PROOF, 'WP' INDICATES WEATHERPROOF
	ADA COMPLIANT VISUAL APPLIANCE. 'CD' INDICATES CANDELA RATING, "XP" INDICATES EXPLOSION PROOF, "WP" INDICATES WEATHERPROOF
	PHOTOELECTRIC SMOKE DETECTOR
	HEAT DETECTOR, COMBINATION FIXED 175F & RATE-OF-RISE 15F, UNLESS OTHERWISE NOTED.
	CARBON MONOXIDE (CO) DETECTOR. PROVIDE WIRING AS SHOWN ON THE FIRE ALARM PLANS AND AS SPECIFIED IN SECTION 26721. PROVIDE 2#14 IN 3/4"C TO THE BOILER ROOM EPO SWITCH AS REQUIRED TO WIRE IN SERIES TO THE SHUNT TRIP CIRCUIT BREAKERS.
	REMOTE ALARM INDICATOR
	DUCT MOUNTED SMOKE DETECTOR
	REMOTE ALARM INDICATOR AND TEST SWITCH FOR DUCT SMOKE DETECTOR WITH NAMEPLATE LABELED ACCORDINGLY. "2" INDICATES NUMBER OF INDICATORS GANGED TOGETHER. LOCATED TEST STATION 48" AFF ON WALL. FIELD COORDINATE LOCATION WITH CM PRIOR TO ROUGH IN.
	FIRE ALARM CONTROL PANEL (REQUIRES 120VAC)
	FIRE ALARM REMOTE ANNUNCIATOR
	RADIO MASTER BOX
	FIRE ALARM SYSTEM GRAPHIC MAP
	POWER CONNECTION FOR FIRE/SMOKE DAMPER (REQUIRES 120VAC) CIRCUIT ROUTED THROUGH FIRE ALARM CONTROL MODULE TO INTERRUPT POWER UPON ACTIVATION OF FIRE ALARM SYSTEM
	FIRE ALARM BOOSTER NAC PANEL (REQUIRES 120VAC)
	RADIO MASTER BOX ANTENNA
	CONTROL MODULE
	MONITOR MODULE
	ZONE ALARM MODULE
	FIRE ALARM LOCKED KEY BOX
	FIRE BEACON
	END OF LINE RESISTOR
	SURGE SUPPRESSOR
	BOILER/MECHANICAL ROOM EPO SWITCH. PROVIDE 2#14, #14G, 3/4" C BACK TO THE PANELBOARD FEEDING THE FOSSIL FUEL BURNING EQUIPMENT WITHIN THE ASSOCIATED BOILER/MECHANICAL ROOM. WIRE EPO SWITCHES IN SERIES, ALONG WITH ANY CO DETECTORS IN THE ROOM TO PROVIDE A SINGLE 'SHUNT TRIP' SIGNAL TO THE ASSOCIATED BREAKERS WITHIN THE PANELBOARDS. SEE THE FLOOR PLANS AND PANELBOARD SCHEDULES FOR FURTHER DETAILS
	ALARM BELL (120V REQUIRED) CIRCUIT ROUTED THROUGH FIRE ALARM CONTROL MODULE TO POWER DEVICE UPON ACTIVATION OF FIRE ALARM SYSTEM
	RELAY PANEL
	GAS DETECTOR/SENSOR CO = CARBON MONOXIDE NO2 = NITROGEN DIOXIDE M = BOTH CARBON MONOXIDE AND NITROGEN DIOXIDE
	GAS DETECTION ALARM HORN/STROBE

ABBREVIATIONS

A	AMPERES	KW	KILOWATTS
AF	AMPERE FRAME (CIRCUIT BREAKER RATING)	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MISC	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ARCH	ARCHITECT	NC	NORMALLY CLOSED
AT	AMPERE TRIP (CIRCUIT BREAKER RATING)	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHT
BLDG	BUILDING	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
C.B.	CIRCUIT BREAKER	Ø	PHASE
C.T.	CURRENT TRANSFORMER	P	POLE
CAT	CATALOG	P.T.	POTENTIAL TRANSFORMER
CIR	CIRCUIT	PVC	POLYVINYL CHLORIDE
COL	COLUMN	R	RECESSED
CU	COPPER	S	SURFACE
△	DELTA	SCR	SHORT CIRCUIT INTERRUPTING RATING
DWG	DRAWING	SP	SPARE
E	WIRED ON EMERGENCY CIRCUIT	SW	SWITCH
EC	ELECTRICAL CONTRACTOR	TEL	TELEPHONE
EM	EMERGENCY	TYP	TYPICAL
F	FLUSH	UG	UNDERGROUND
FT	FEET	V	VOLT
G	GROUND	Y	WYE
GC	GENERAL CONTRACTOR	W	WATT
KCMIL	ONE THOUSAND CIRCULAR MILS	WP	WEATHERPROOF
KVA	KILOVOLT-AMPERES	XFMR	TRANSFORMER
KVAR	KILOVOLT-AMPERES REACTIVE		



FB - FACILITIES BUILDING
SB - STORAGE BUILDING
CB - CONCESSIONS BUILDING

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Facility Project

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

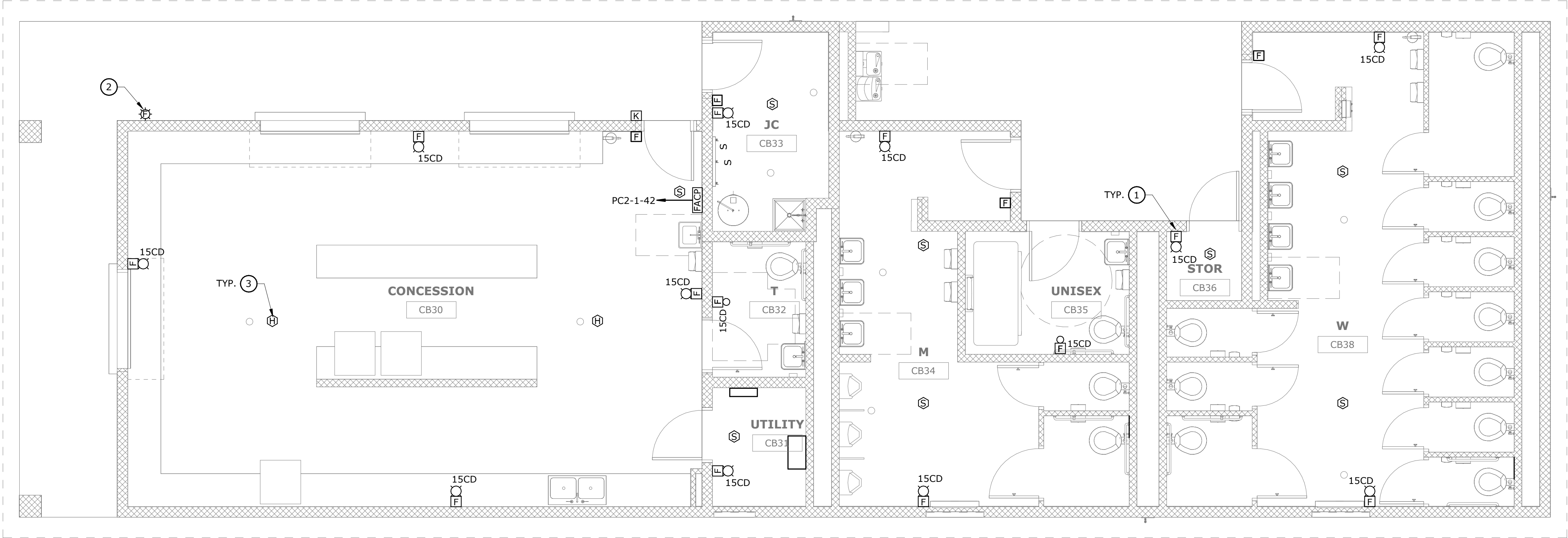
MARK	DATE	DESCRIPTION
PROJECT NO: D5085-0001		
DATE: 12/12/2025		
FILE: D5085-0001-FA-001		
DRAWN BY: C. NELSON		
DESIGNED BY: C. MELENDEZ		
CHECKED BY: A. MEDJAMIA		
APPROVED BY: J. PERSECHINO		

FIRE ALARM LEGEND

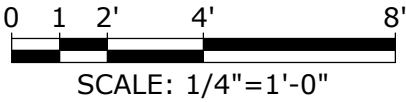
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FIRE ALARM CONCESSIONS BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"

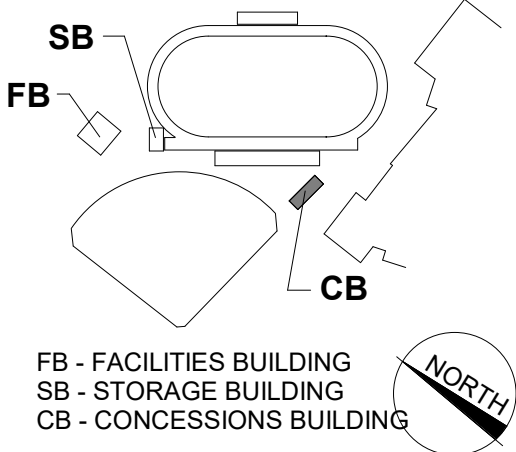
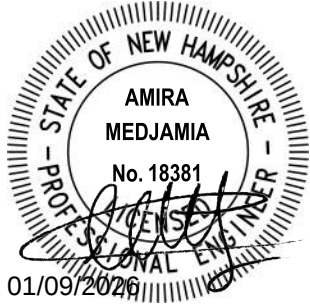


GENERAL NOTES:

1. REFER TO FIRE ALARM RISER DIAGRAM FOR FURTHER INFORMATION ON CIRCUITING.

FIRE ALARM SYSTEM KEY NOTES:

- 1 PROVIDE ALL FIRE ALARM WIRING IN 3/4"C.
- 2 FINAL LOCATION OF RED STROBE BEACON SHALL BE COORDINATED WITH AND APPROVED BY THE LOCAL FIRE DEPARTMENT.
- 3 COORDINATE HEAT AND SMOKE DETECTOR LOCATIONS WITH MECHANICAL EQUIPMENT, DUCTWORK, AND LIGHTING TO AVOID CONFLICTS.



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25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-FA-111	
DRAWN BY:	J. DEMEDEIROS	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

**FIRE ALARM CONCESSIONS
BUILDING FLOOR PLAN**

SCALE: AS SHOWN

FA-111

Last Saved: 1/9/2026 4:00:50 PM
Project: 1/9/2026 4:00:50 PM
Tighe & Bond - Address: 1000 Highway 101, Dover, NH 03820
B-1, PERSECHINO
1/9/2026 4:00:50 PM
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FIRE ALARM FACILITIES BUILDING FLOOR PLAN
SCALE: 1/4" = 1'-0"

0 1 2' 4' 8'
SCALE: 1/4"=1'-0"

GENERAL NOTES:

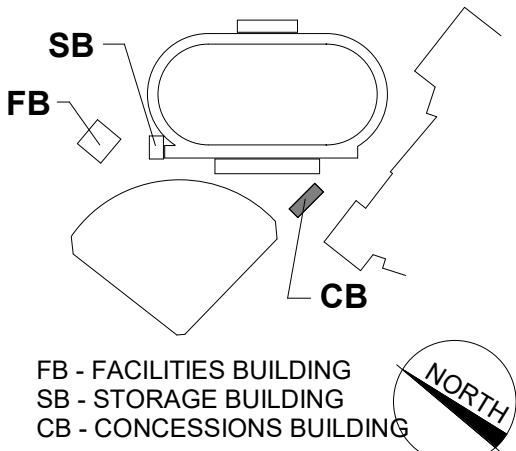
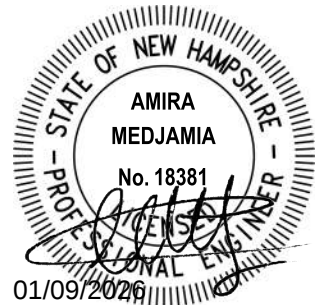
1. REFER TO FIRE ALARM RISER DIAGRAM FOR FURTHER INFORMATION ON CIRCUITING.

FIRE ALARM SYSTEM KEY NOTES:

- 1 PROVIDE ALL FIRE ALARM WIRING IN 3/4"C.
- 2 FINAL LOCATION OF RED STROBE BEACON SHALL BE COORDINATED WITH AND APPROVED BY THE LOCAL FIRE DEPARTMENT.
- 3 GAS DETECTION CONTROL PANEL FOR STAND ALONE MONITORING OF CARBON MONOXIDE AND NITROGEN DIOXIDE.
- 4 GAS DETECTION SENSORS AND ALARMS.
- 5 COORDINATE HEAT AND SMOKE DETECTOR LOCATIONS WITH MECHANICAL EQUIPMENT, DUCTWORK, AND LIGHTING TO AVOID CONFLICTS.



Tighe & Bond



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**Dover High
School Athletic
Facility Project**

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

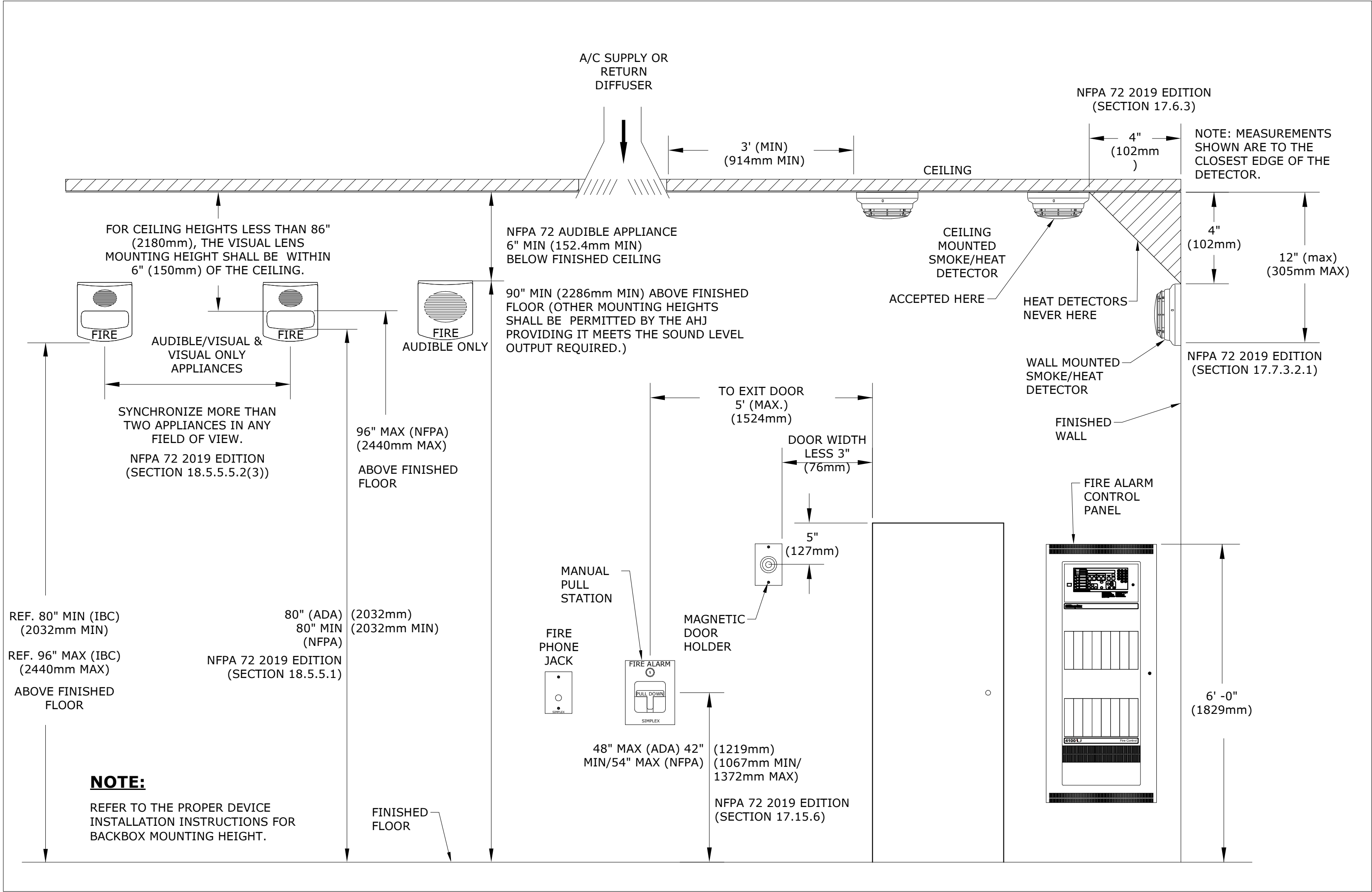
MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-FA-121	
DRAWN BY:	J. DEMEDES	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

**FIRE ALARM FACILITIES
BUILDING FLOOR PLAN**

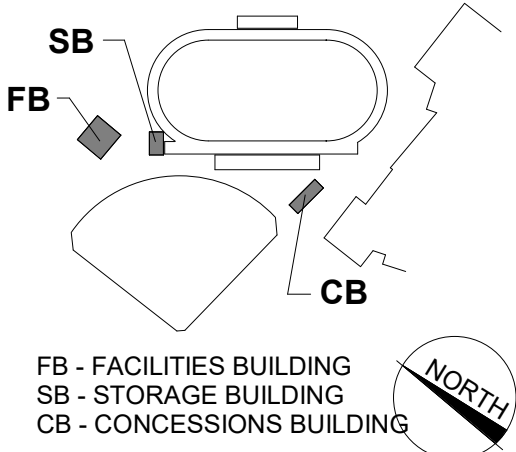
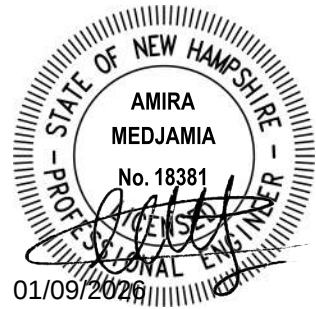
SCALE: AS SHOWN

FA-121

Last Saved: 1/9/2026 4:00:51 PM
Project: 1/9/2026 4:00:51 PM
Tighe & Bond - Architect/Engineer/05085-001
Dover High School /05085-001_24-228 Dover HS Athletics Buildings_MEP R25.rvt
By: C. NELSON



DEVICE MOUNTING HEIGHTS ELEVATION (PER NFPA 72)
SCALE: 1/8" = 1'-0"



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**Dover High
School Athletic
Facility Project**

Dover School
District, SAU #11

25 Alumni Drive
Dover, New Hampshire

MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-FA-501	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

FIRE ALARM DETAILS

SCALE: NO SCALE

FA-501

Last Saved: 1/9/2026 4:00:53 PM
Ported On: 1/9/2026 4:00:53 PM
Plyns & Bond, Address: 001_24-228 Dover HS Athletics Buildings_MEP R25.rvt
By: C. NELSON

FIRE ALARM RISER LEGEND

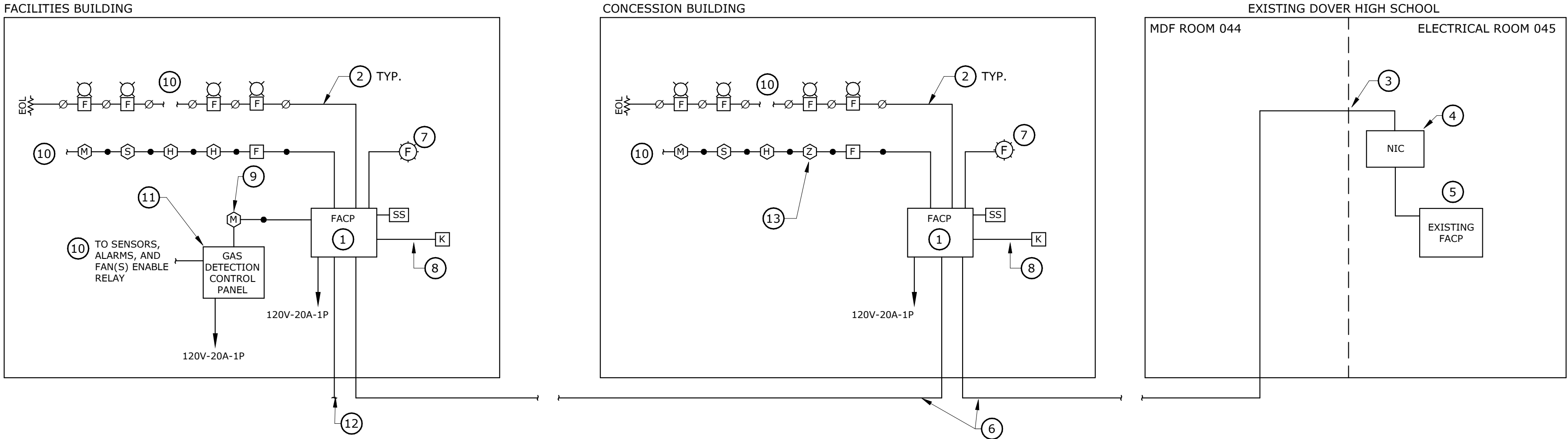
- CLASS "B" ADDRESSABLE SIGNALING LOOP.
- CLASS "B" NOTIFICATION APPLIANCE CIRCUIT
- INDICATES CONTINUATION OF WIRING TYPE.

FIRE ALARM SYSTEM KEY NOTES:

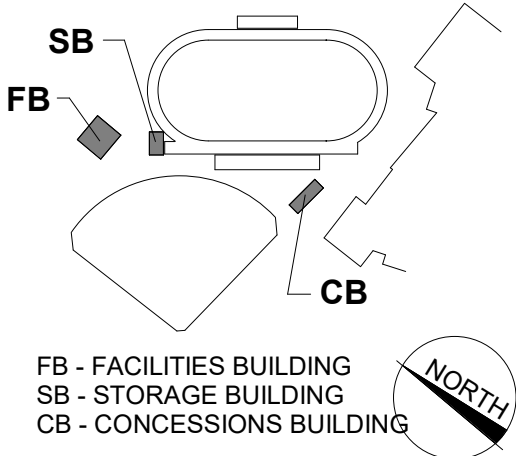
- PROPOSED FIRE ALARM CONTROL PANEL (FACP) WITH INTEGRAL BATTERY BACKUP. SEE FLOOR PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- PROVIDE 3/4" CONDUIT FOR CLASS "B" NETWORK. ALL FIRE ALARM JUNCTION BOXES/FITTINGS SHALL BE PAINTED RED.
- PROVIDE 4" CONDUIT FOR FIBER OPTIC CABLE AND 2HR FIRESTOP SEALANT THROUGH PENETRATION FROM MDF ROOM TO ELECTRICAL ROOM. ALL FIRE ALARM JUNCTION BOXES/FITTINGS SHALL BE PAINTED RED.
- PROVIDE NETWORK INTERFACE CARD AND ACCESSORIES AS REQUIRED TO INTERFACE WITH THE EXISTING FIRE ALARM CONTROL PANEL. THE EXISTING FIRE ALARM PANEL SHALL MONITOR THE CONCESSION BUILDING AND THE FACILITIES BUILDING IN A PARENT CHILD NODE SETUP.
- THE EXISTING FIRE ALARM PANEL IS LOCATED IN ELECTRICAL ROOM 045 AND IS TYPE SIMPLEX 4100ES.
- PROVIDE 4" CONDUIT WITH 6-STRAND MULTI-MODE FIBER OPTIC CABLE AND 4" SPARE IN UNDERGROUND CONCRETE ENCASED DUCTBANK TO INTERCONNECT BUILDINGS.
- PROVIDE RED STROBE OR BEACON LOCATED ON THE SIDE OF THE BUILDING FACING THE STREET AND PER THE LOCAL FIRE DEPARTMENTS REQUIREMENTS.
- PROVIDE 4#14 IN 3/4"C TO EXTERIOR ELECTRONIC KEYED BOX FOR TAMPER MONITORING.
- GAS DETECTION MONITORING OF RELAY CONTROL PANEL FOR GAS DETECTION SUPERVISORY SIGNAL TO FIRE ALARM CONTROL PANEL.
- REFER TO FIRE ALARM FLOOR PLANS FOR QUANTITY AND LOCATIONS.
- CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE INSTALLED AND APPROVED IN ACCORDANCE WITH THE FIRE ALARM EQUIPMENT MANUFACTURERS INSTRUCTIONS.
- PROVIDE FIRE ALARM CABLE IN UNDERGROUND DUCTBANK FROM FACILITY BUILDING FIRE ALARM PANEL FOR SMOKE DETECTORS IN STORAGE BUILDING. REFER TO DUCT BANK SECTIONS FOR CONDUIT SIZES.
- ZONE ALARM MODULE FOR HEAT TRACE INTERCONNECTION.

FIRE ALARM NOTES:

- RISER DIAGRAM IS PARTIAL AND DOES NOT SHOW ENTIRE SYSTEM. REFER TO FIRE ALARM FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES OF ALL EQUIPMENT AND DEVICES.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH THE MANUFACTURERS' WIRING DIAGRAMS.
- EACH AREA SHALL BE PROVIDED WITH THE FOLLOWING FROM THE FACP / REMOTE PANELS:
 - ADDRESSABLE CLASS "B" LOOP FOR ALL INITIATING DEVICES.
 - 24V POWER FOR ADDRESSABLE MODULES (CONTROL, MONITOR).
- PROVIDE BREAKER LOCKS IN PANELBOARD(S) SUPPLYING POWER TO FIRE ALARM SYSTEM'S POWER SUPPLIES AND BATTERY CHARGERS.
- FIELD COORDINATE THE LOCATION OF ALL FIRE ALARM DATA GATHERING/NAC PANELS (NAC), FIRE ALARM REMOTE ANNUNCIATOR PANELS (FAA), FIRE ALARM CONTROL PANEL (FACP), CONDUIT RISERS AND THE CLASS 'B' NETWORK CONDUIT WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.
- ALTHOUGH NOT ALL PULL BOXES ARE SHOWN, IT IS THE INTENT OF THIS DOCUMENT, THAT THERE SHALL NOT BE MORE THAN (4) 90° BENDS IN ANY ONE CONDUIT RUN.
- MONITOR MODULES SHALL BE USED TO MONITOR THE STATUS OF VARIOUS SYSTEMS IN THE BUILDING INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING TYPES OF EQUIPMENT; FIRE SHUTTERS/DAMPERS, FIRE SUPPRESSION SYSTEM COMPONENTS, ROOF SMOKE HATCHES, MASTER BOX, ETC. REFER TO THE SPECIFICATION AND DRAWINGS FOR ADDITIONAL INFORMATION AND SYSTEM LOCATIONS.
- CONTROL MODULES SHALL BE USED TO CONTROL VARIOUS FIRE ALARM SYSTEM AND BUILDING SYSTEM DEVICES INCLUDING BUT NOT LIMITED TO THE FOLLOWING; FIRE SHUTTERS/DAMPERS, SECURE DOORS CONTROLLED BY MAG-LOCKS, ETC. REFER TO THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION AND SYSTEM LOCATIONS.
- SEE POWER FLOOR PLANS FOR 120VAC BRANCH CIRCUITS
- PROVIDE SURGE SUPPRESSOR DEVICES FOR ALL FIRE ALARM CABLE LEAVING/ENTERING THE ASSOCIATED BUILDINGS. LOCATE SUPPRESSORS WITHIN 3' OF CLOSEST INTERIOR WALL WHERE THE CABLE LEAVES/ENTERS THE BUILDING.



FIRE ALARM RISER DIAGRAM



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MARK	DATE	DESCRIPTION
PROJECT NO:	D5085-0001	
DATE:	12/12/2025	
FILE:	D5085-0001-FA-601	
DRAWN BY:	C. NELSON	
DESIGNED BY:	C. MELENDEZ	
CHECKED BY:	A. MEDJAMIA	
APPROVED BY:	J. PERSECHINO	

FIRE ALARM RISER
DIAGRAM

SCALE: NO SCALE

FA-601